

# SM 101 EXPRESS LANES PROJECT

Quarterly Project Update



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C/CAG Board Meeting November 18, 2021

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# SM 101 EXPRESS LANES PROJECT

## AGENDA



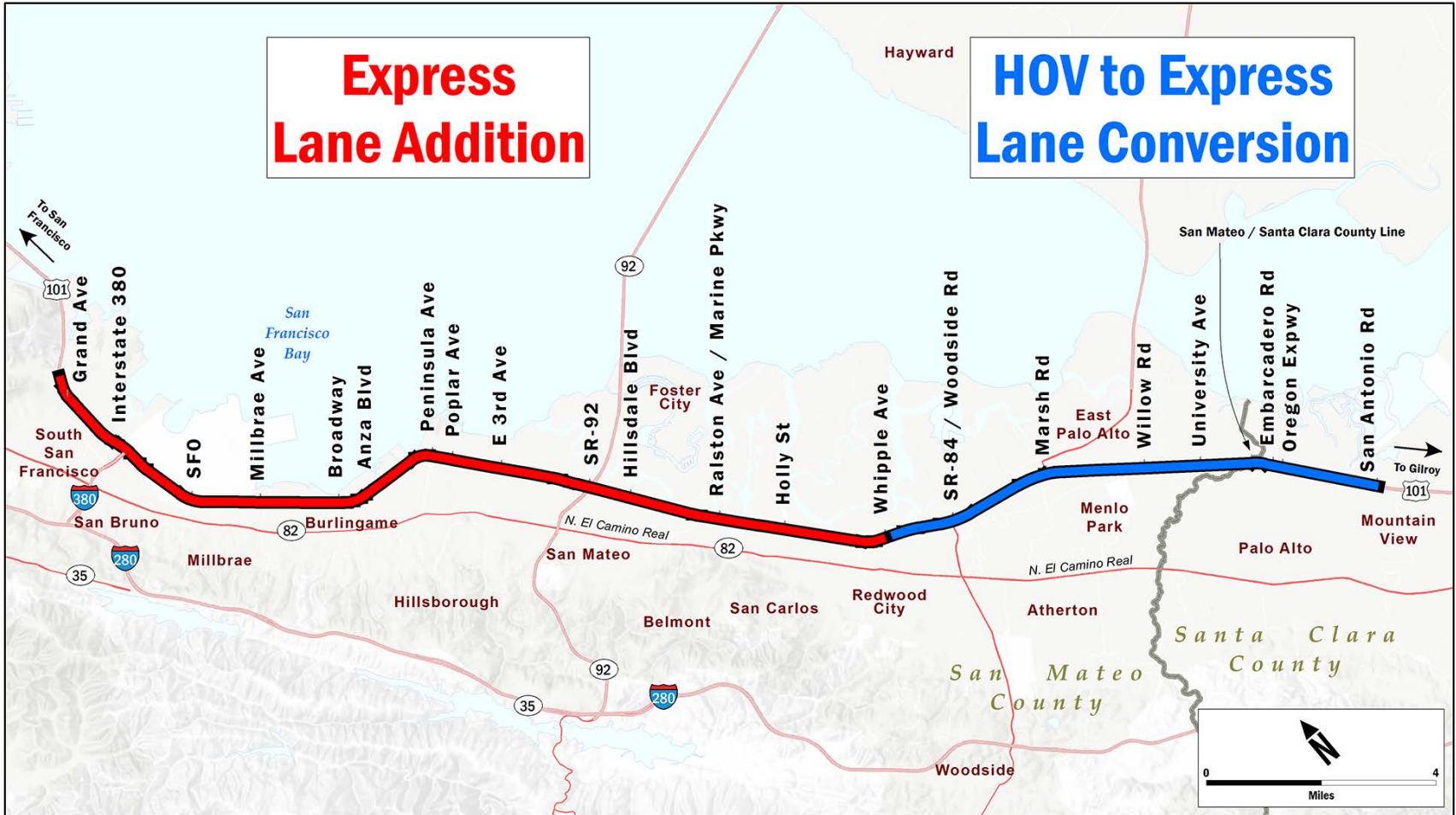
- Construction Progress
- Project Spotlight
- Public Outreach Activities
- Financial and Risk Status



- **Construction Progress**
- Project Spotlight
- Public Outreach Activities
- Financial and Risk Status

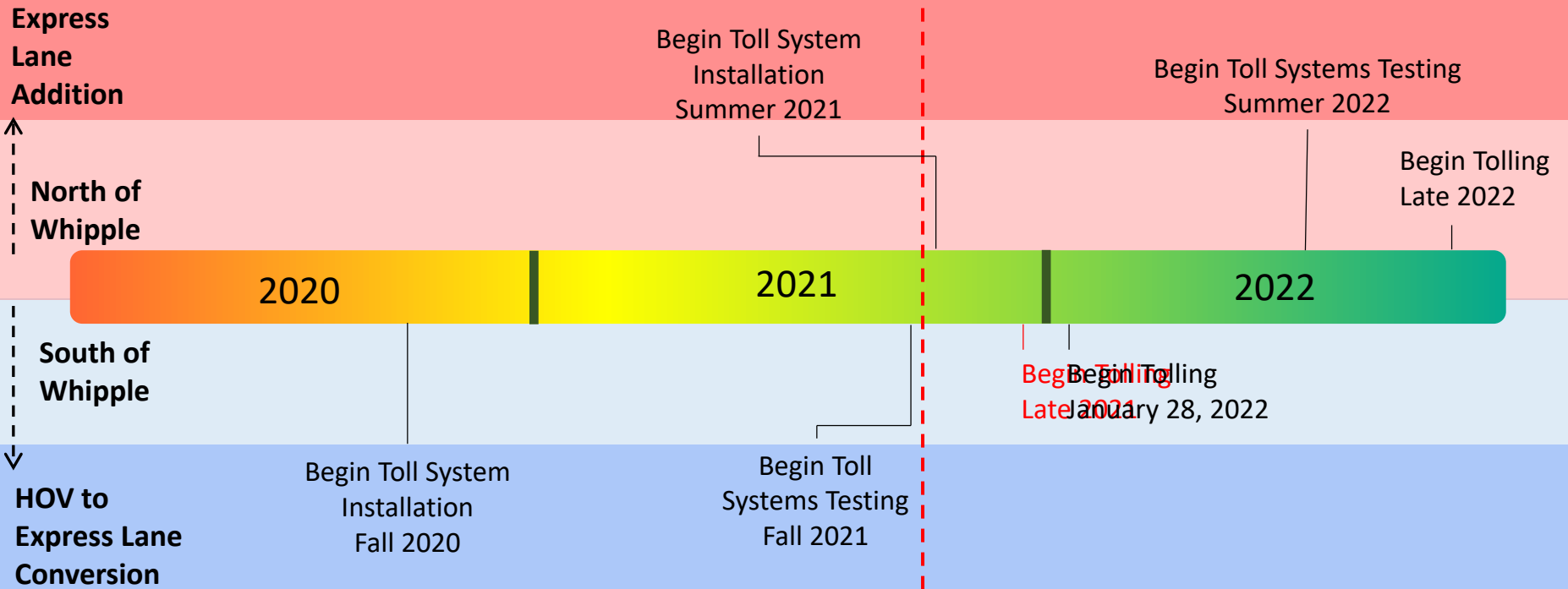
# SM 101 EXPRESS LANES PROJECT

## PROJECT LIMITS



# SM 101 EXPRESS LANES PROJECT

## PROJECT SCHEDULE



# SM 101 EXPRESS LANES PROJECT

## EXPRESS LANE OPENING DATE ADJUSTED



### Factors contributing to Schedule Adjustment:

- Supply Chain disruption
- COVID
- Weather
- Retesting
- Syncing opening with VTA



### Rationale for new Target Date of January 28, 2022:

- Avoid holiday season
- Work around weather delays
- Streamline testing process

# SM 101 EXPRESS LANES PROJECT

## OPENING DATE RISK MITIGATION



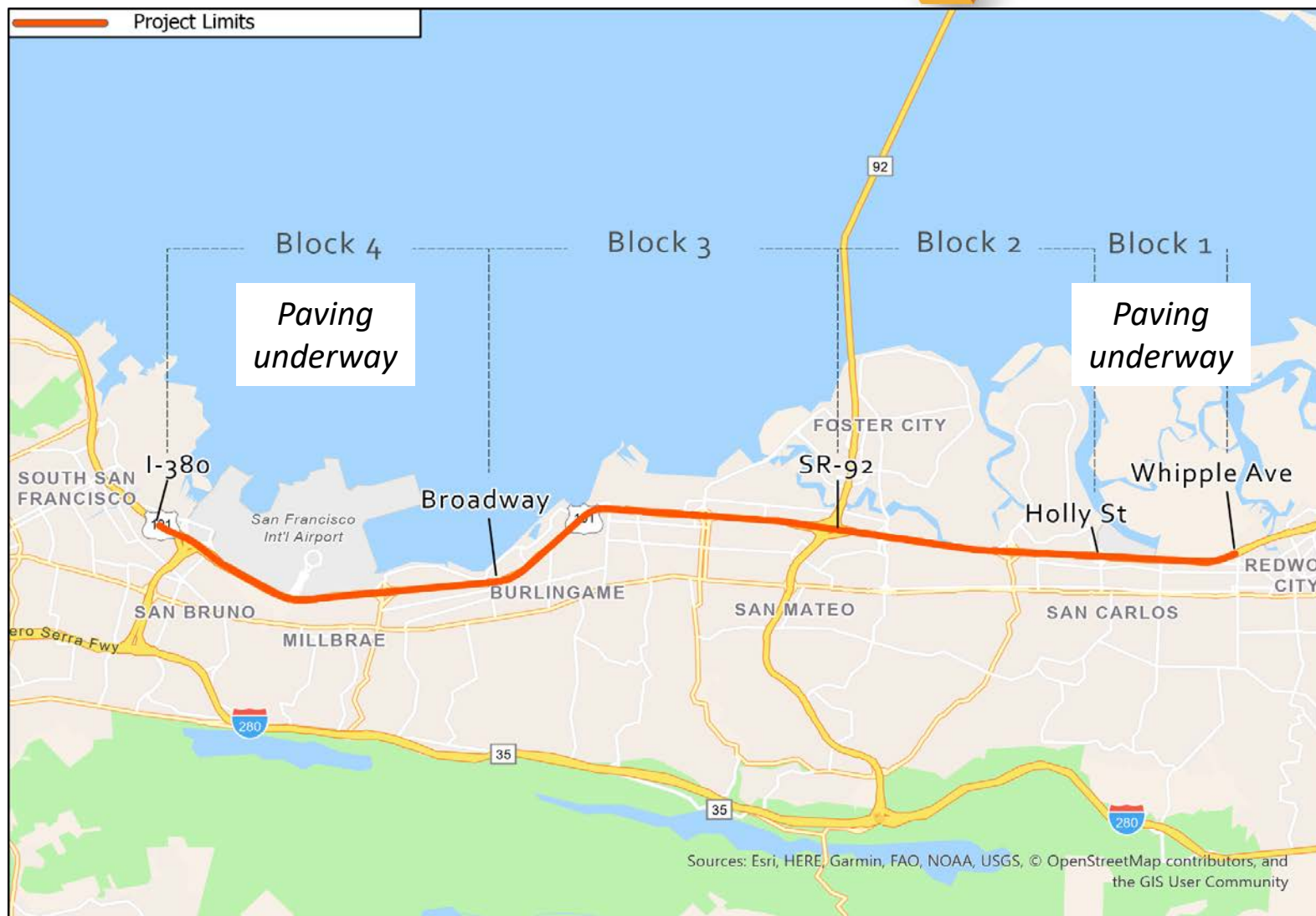
### Risks to January 28 Opening Date

### Risk Mitigations

Syncing start of tolling with VTA	➔	Communicate regularly with VTA
Weather	➔	Accounted for weather days in the schedule
COVID	➔	TransCore validating that crews are following COVID protocols
Software development	➔	TransCore deploying two teams to work on software development
Retesting	➔	Streamlining testing process
Equipment failure and/or malfunction	➔	Making use of North Segment equipment when it arrives
Supply chain	➔	Making use of North Segment equipment when it arrives

**Note: not anticipated to affect North Segment schedule**

# SM 101 EXPRESS LANES PROJECT NORTH CONTRACT CONSTRUCTION BLOCKS



# SM 101 EXPRESS LANES PROJECT NORTH CONTRACT WORK COMPLETED



## North of Whipple through September:

\$254.28M of \$326M completed (78%) with 63% time elapsed. 71% of paving complete.

- Completed sign foundations in Blocks 1, 2, and 3
- Completed installation of lights and sign structures in Blocks 1 and 4
- Completed restriping in Block 1 in preparation for final layer of paving
- Removed 2,000 linear feet of temporary barrier (in Blocks 1 and 4)
- Constructed approximately 15 miles of new median concrete barrier

# SM 101 EXPRESS LANES PROJECT NORTH CONTRACT WORK ONGOING



## Block 4 Median Barrier Construction





## Median Barrier Texture and Paint



## Temporary Concrete Barrier Removal



**SM 101**  
**EXPRESS LANES PROJECT**  
**NORTH CONTRACT WORK ONGOING**



## Final Layer (1/10<sup>th</sup> Overlay) Paving





## Project Sponsorship Sign Installed





## North of Whipple:

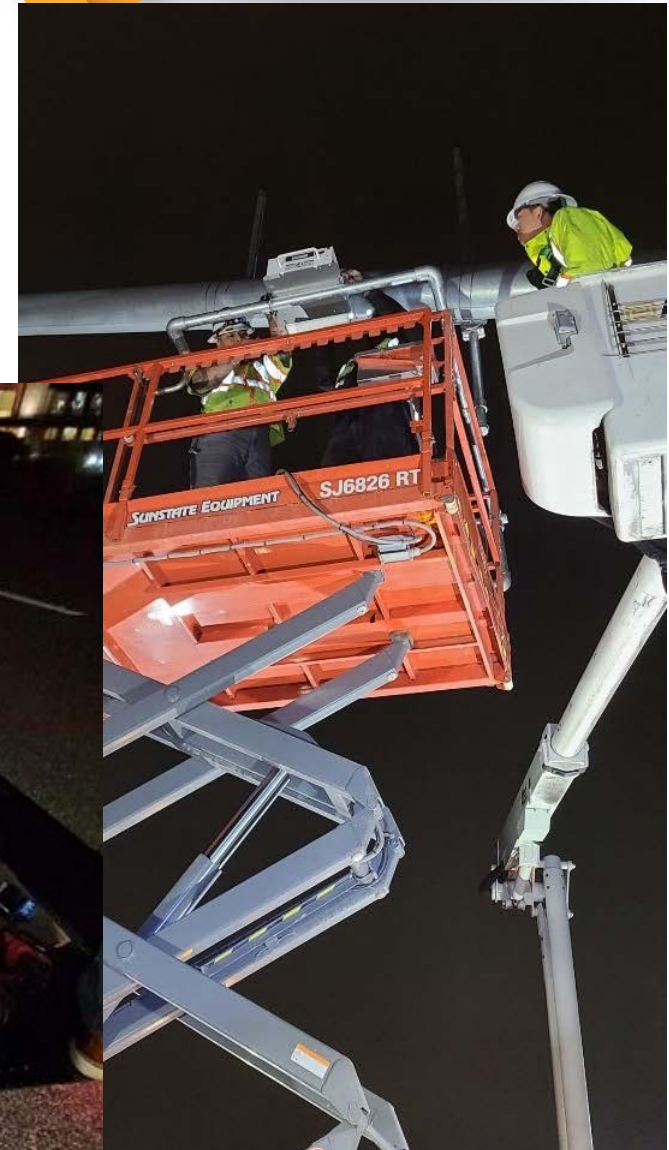
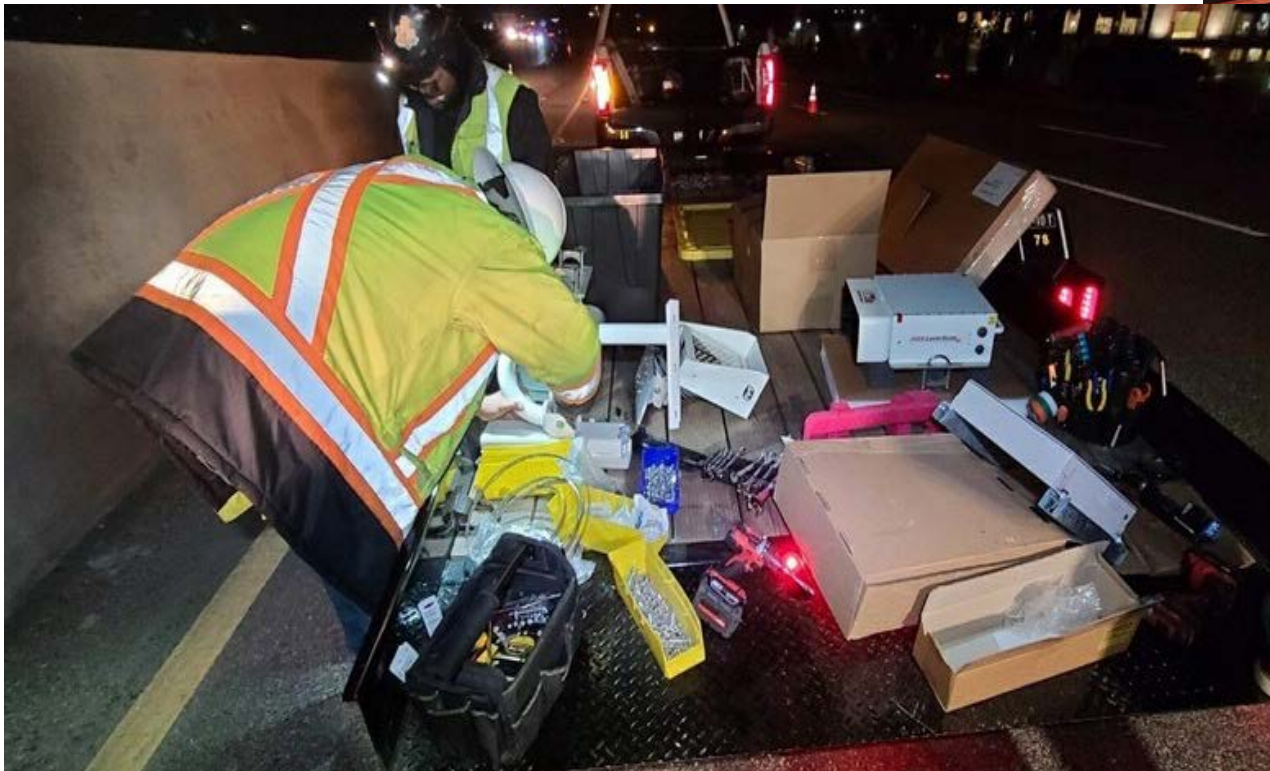
- Final layer (1/10<sup>th</sup>) overlay paving – finishing in Block 1
- Constructing, texturing, and painting median barrier
- Installing sign structures and variable toll message signs in all Blocks
- Installing tolling equipment in Block 4 (TransCore)
- Completing fiber optic cable connections to Millbrae BART Station

**SM 101**  
**EXPRESS LANES PROJECT**  
**SOUTH CONTRACT WORK COMPLETED**



## South of Whipple through September:

- Completed installation of tolling equipment



# SM 101 EXPRESS LANES PROJECT

## UPCOMING WORK: October – December



### South of Whipple:

- Testing tolling equipment and system
- Restriping freeway to final express lanes configuration
- Installing variable toll message sign overlays
- Installing other median signage

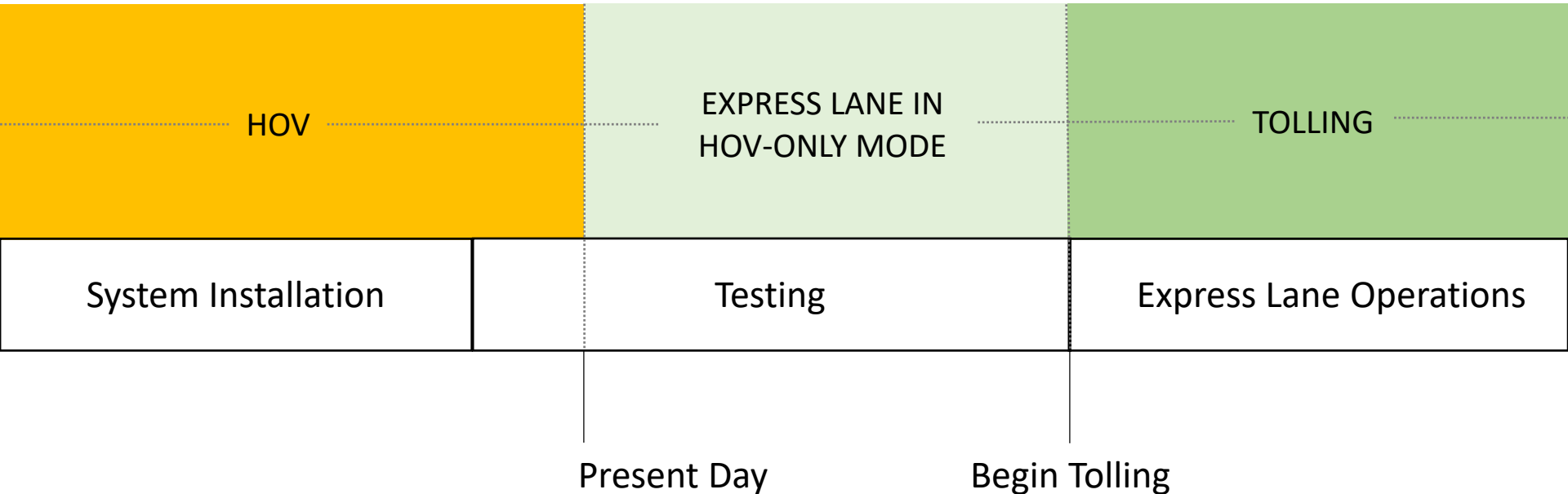
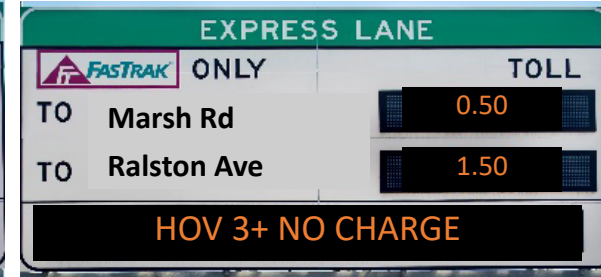




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# SM 101 EXPRESS LANES PROJECT

## LANE OPERATING MODES DURING TRANSITION



# SM 101 EXPRESS LANES PROJECT SIGNS DURING CONSTRUCTION

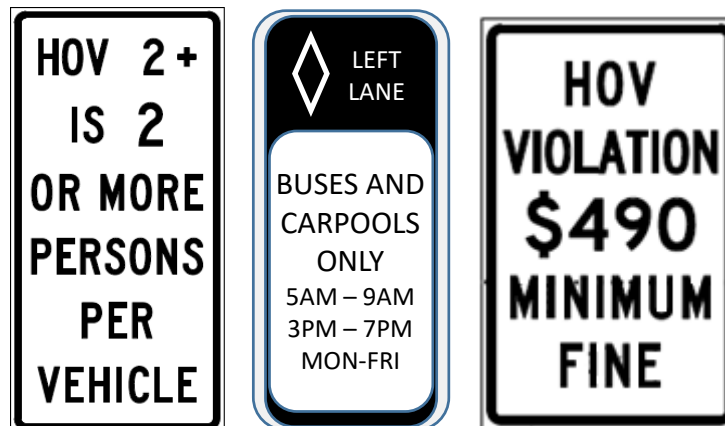


## HOV

Variable Toll Message Sign



Other Median Signs



# SM 101 EXPRESS LANES PROJECT

## SIGNS DURING TOLL TESTING



### EXPRESS LANE IN HOV-ONLY MODE

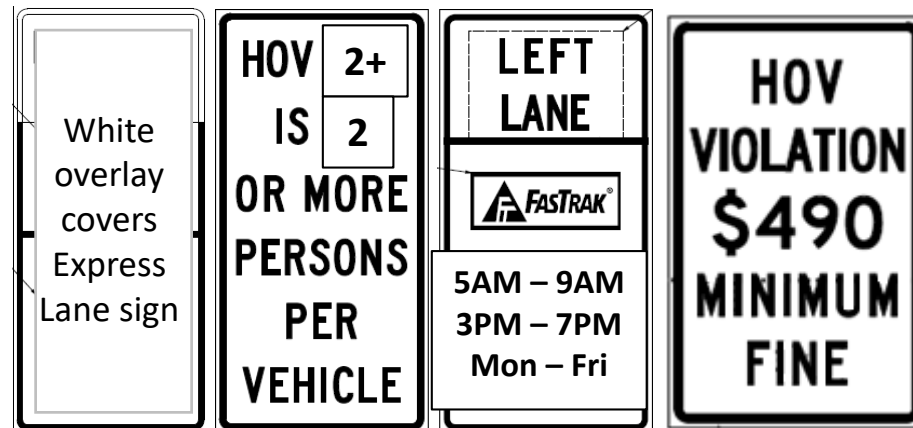


Variable Toll Message Sign

Portable Changeable Message Sign



Other Median Signs



# SM 101 EXPRESS LANES PROJECT SIGNS AFTER TOLLING BEGINS

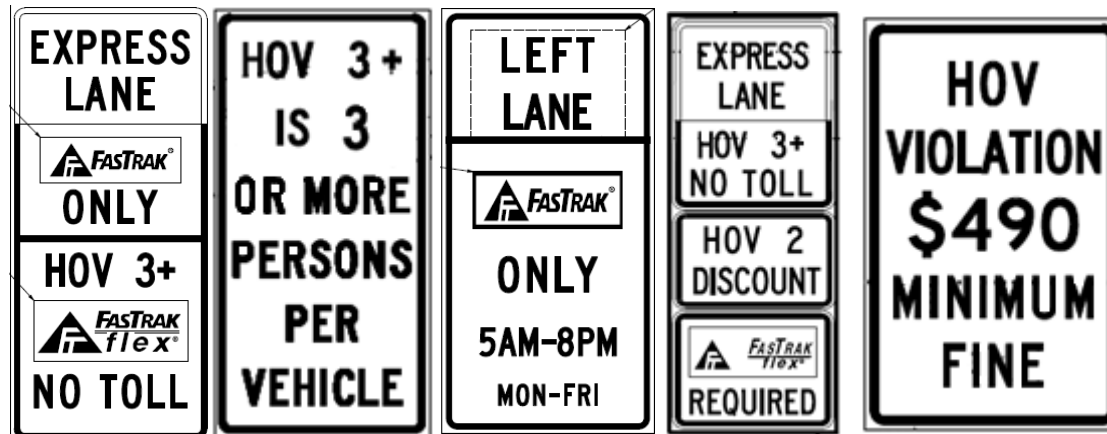


## TOLLING

Variable Toll Message Sign



Other Median Signs





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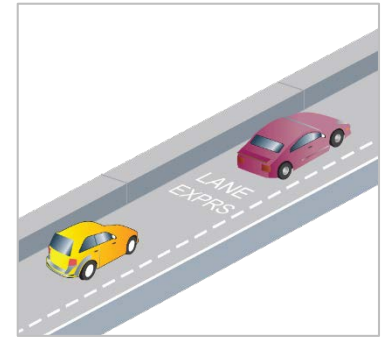
# SM 101 EXPRESS LANES PROJECT

## PUBLIC INFORMATION – TOLL TESTING



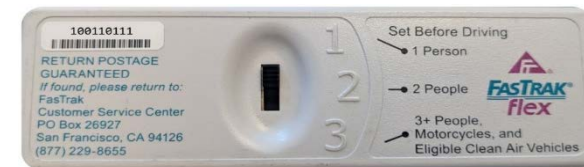
### Key Messages:

- Express Lanes are opening soon (begin tolling)
- Follow the signs on the road
- Get a FasTrak® Flex or CAV Toll Tag now



### Outreach Tools:

- Quarterly Email
- Updated Caltrans project website (Main page, FAQs, Factsheet)
- Social Media (Twitter and Facebook)
- Traffic Advisory (for media)
- Portable Changeable Message Signs



# SM 101 EXPRESS LANES PROJECT

## TIMELINE – MARKETING EXPRESS LANE OPENING



- **Public Information - 45 days before lane opens (tolling begins)**
  - On Corridor Signage
  - Regional websites (Caltrans, 511.org, FasTrak)
  - Social Media Messaging (Partners)
  - Press Release (with Caltrans, VTA, MTC)
  - Email blast: Cities, Community, Business and Key Stakeholders
- **Marketing/Advertising - 30 days before/after lane opens (tolling begins)**
  - Collaboration with MTC (511.org, FasTrak) and VTA
  - Digital/Social
  - Radio



# SM 101 EXPRESS LANES PROJECT

## PUBLIC INFORMATION OVERVIEW



The screenshot shows the Caltrans website for the SM 101 Express Lanes Project. The main heading is "SM 101 Express Lanes Project" with navigation tabs for Project Information, Construction, Project Contacts, Document Library, Frequently Asked Questions, and Videos. The featured section is "Upcoming Overnight Closures on U.S. 101". The text states: "As part of the San Mateo 101 Express Lanes Project, Caltrans will be replacing a total of six overhead sign structures (that span the width of one side of the freeway, from the shoulder to the median) on U.S. 101. Due to the large size of these sign structures, it is necessary to close one direction of the freeway at a time. Caltrans has completed the removal of all six overhead sign structures and installed temporary orange roadside signs along the freeway shoulder on U.S. 101. Additional overnight freeway closures will be required to install new overhead sign structures in Fall 2021." A link is provided: "Click here to learn more about the closures."

- **Construction updates are distributed via email.**
- Visitors can sign up for updates, contact Caltrans to ask a question, and view project status.
- To sign up for weekly or quarterly updates, email with the subject line 'Weekly' or 'Quarterly' to 101express@dot.ca.gov. Follow @CaltransD4 on Twitter for Project updates.



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# SM 101 EXPRESS LANES PROJECT

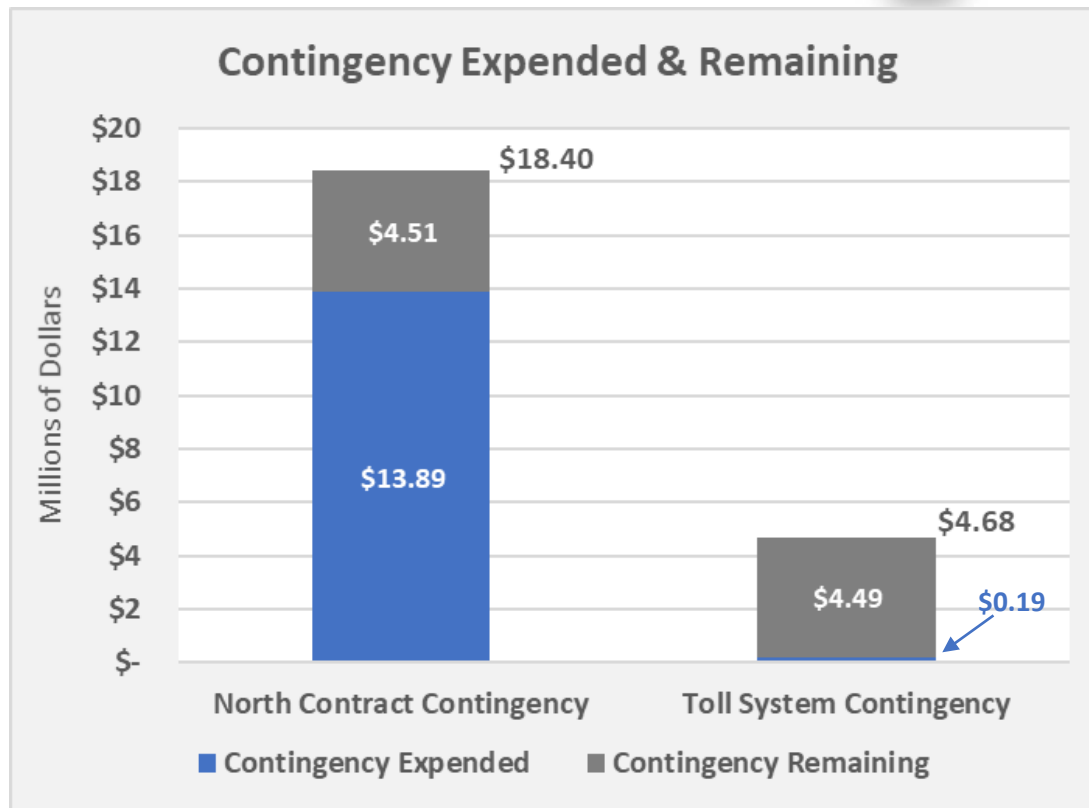
## CURRENT COST ESTIMATE - CONTRACT FOCUSED



Contract	Budget	Estimated Cost <sup>(1)</sup>	Variance	Expended as of 09/30/21 <sup>(2)</sup>	Percent Expended	Percent Complete <sup>(3)</sup>	Confidence <sup>(4)</sup>
SM-101 Express Lanes Project <span style="float: right;"><i>Costs shown in millions of escalated dollars</i></span>							
Environmental	20.39	20.28	(0.11)	20.27	99%	100%	●
Design & Right of Way	42.14	42.14	0.00	36.87	87%	88%	●
South Contract – Civil	74.81	74.81	0.00	74.57	99%	99%	●
North Contract - Civil	390.87	390.87	0.00	295.96	76%	78%	●
<i>North Contract – Civil</i>	<i>372.47</i>	<i>385.73</i>	<i>13.89</i>	<i>282.07</i>	<i>76%</i>	<i>78%</i>	●
<i>Project Contingency <sup>(5)</sup></i>	<i>18.40</i>	<i>4.51</i>	<i>(13.89)</i>	<i>13.89</i>	<i>75%</i>	<i>78%</i>	●
Toll System	48.12	48.12	0.00	7.87	16%	20%	●
<i>Toll System</i>	<i>43.44</i>	<i>43.63</i>	<i>0.19</i>	<i>7.68</i>	<i>18%</i>	<i>20%</i>	●
<i>Project Contingency <sup>(5)</sup></i>	<i>4.68</i>	<i>4.49</i>	<i>(0.19)</i>	<i>0.19</i>	<i>0%</i>	<i>0%</i>	●
Highway Planting	4.81	4.81	0.00	0.00	0%	0%	●
<b>TOTALS</b>	<b>581.14</b>	<b>581.03</b>	<b>(0.11)</b>	<b>435.54</b>	<b>75%</b>	<b>78%</b>	

- (1) Estimated Cost represents current estimated cost to complete each contract.
- (2) Expenditures include \$12M deposit against North Contract – Civil.
- (3) Percent completes shown are based on qualitative assessment of physical % complete per milestones and schedule.
- (4) ● = Within budget, ● = identified potential risks that may significantly exceed budget if not mitigated, ● = Known impacts to budget - changes forthcoming.
- (5) Assume 100% utilization of Project Contingency in overall estimated cost of project

# SM 101 EXPRESS LANES PROJECT CURRENT CONTINGENCY BALANCE



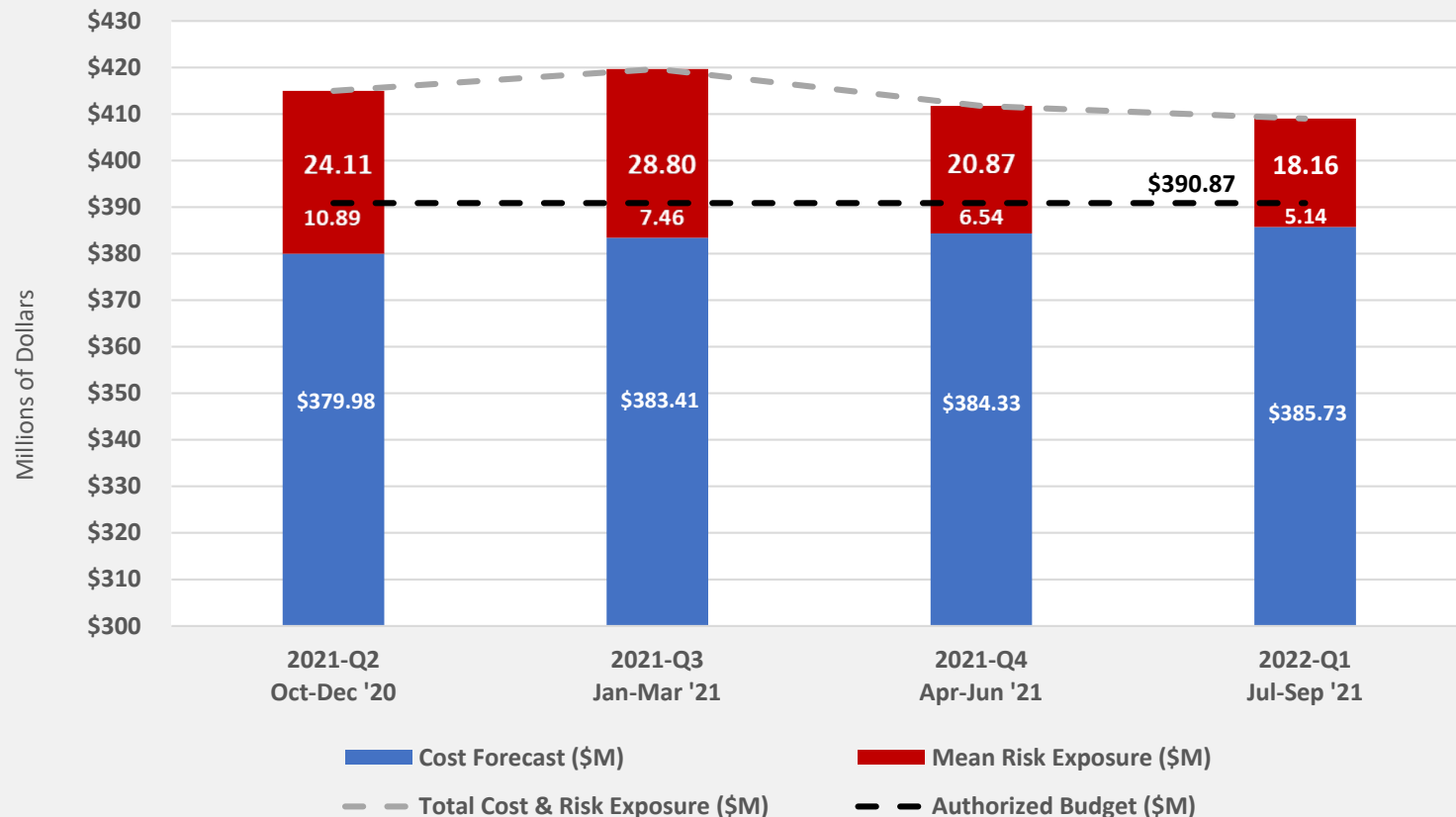
- Contingency expended includes the following:
  - New contract change orders for various reasons including, barrier foundation revisions, grade revisions, maintenance of landscape areas, and miscellaneous signage issues

# SM 101 EXPRESS LANES PROJECT

## RISK MANAGEMENT – CIVIL CONTRACT



North Contract Cost Forecast and Risk Exposure vs. Authorized Budget

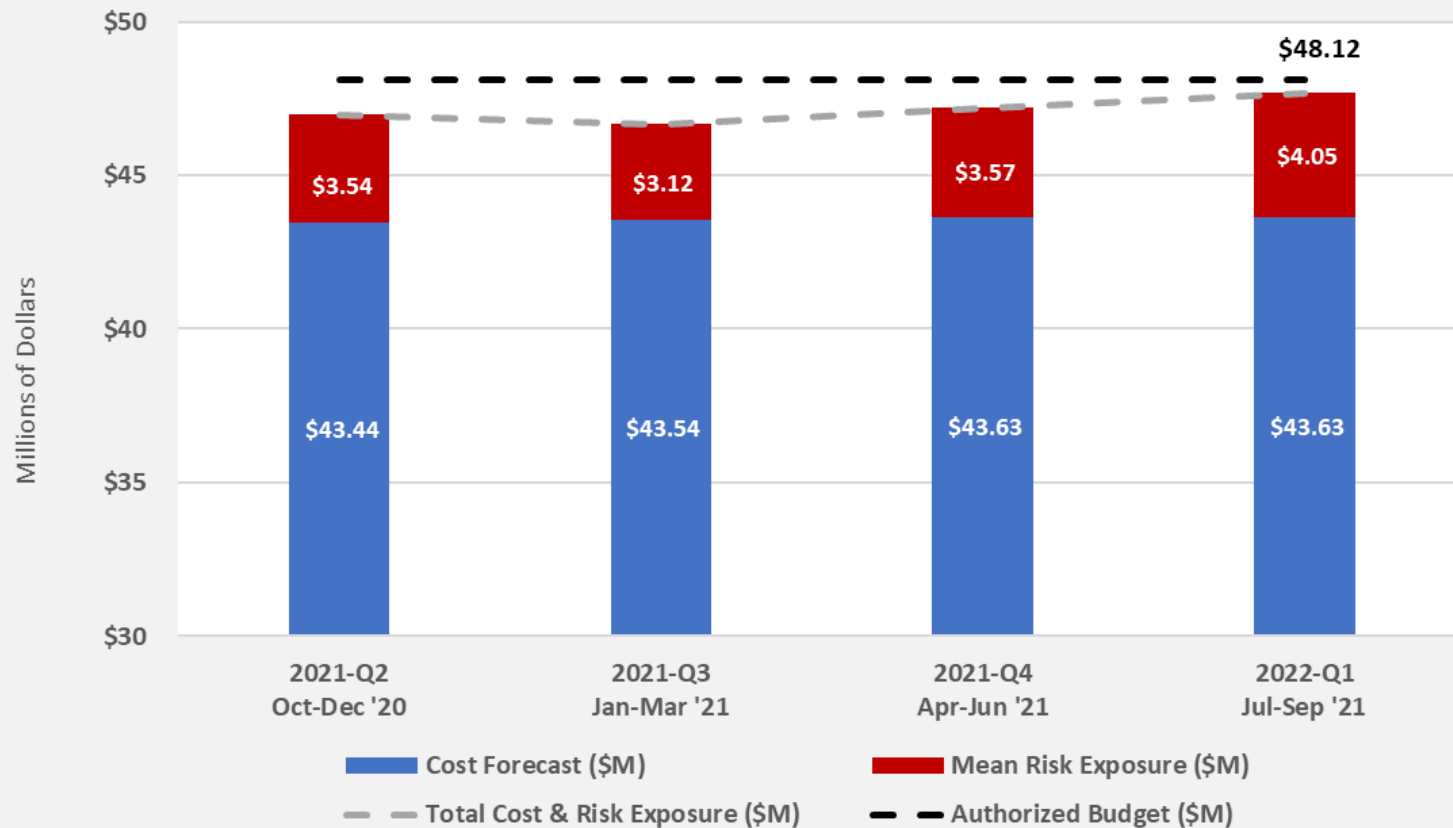


# SM 101 EXPRESS LANES PROJECT

## RISK MANAGEMENT – TOLL CONTRACT



Toll System Contract Cost Forecast and Risk Exposure vs. Authorized Budget





# Questions?