

# SM 101 EXPRESS LANES PROJECT

Quarterly Project Update



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SMCTA Board Meeting November 3, 2022

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# SM 101 EXPRESS LANES PROJECT AGENDA



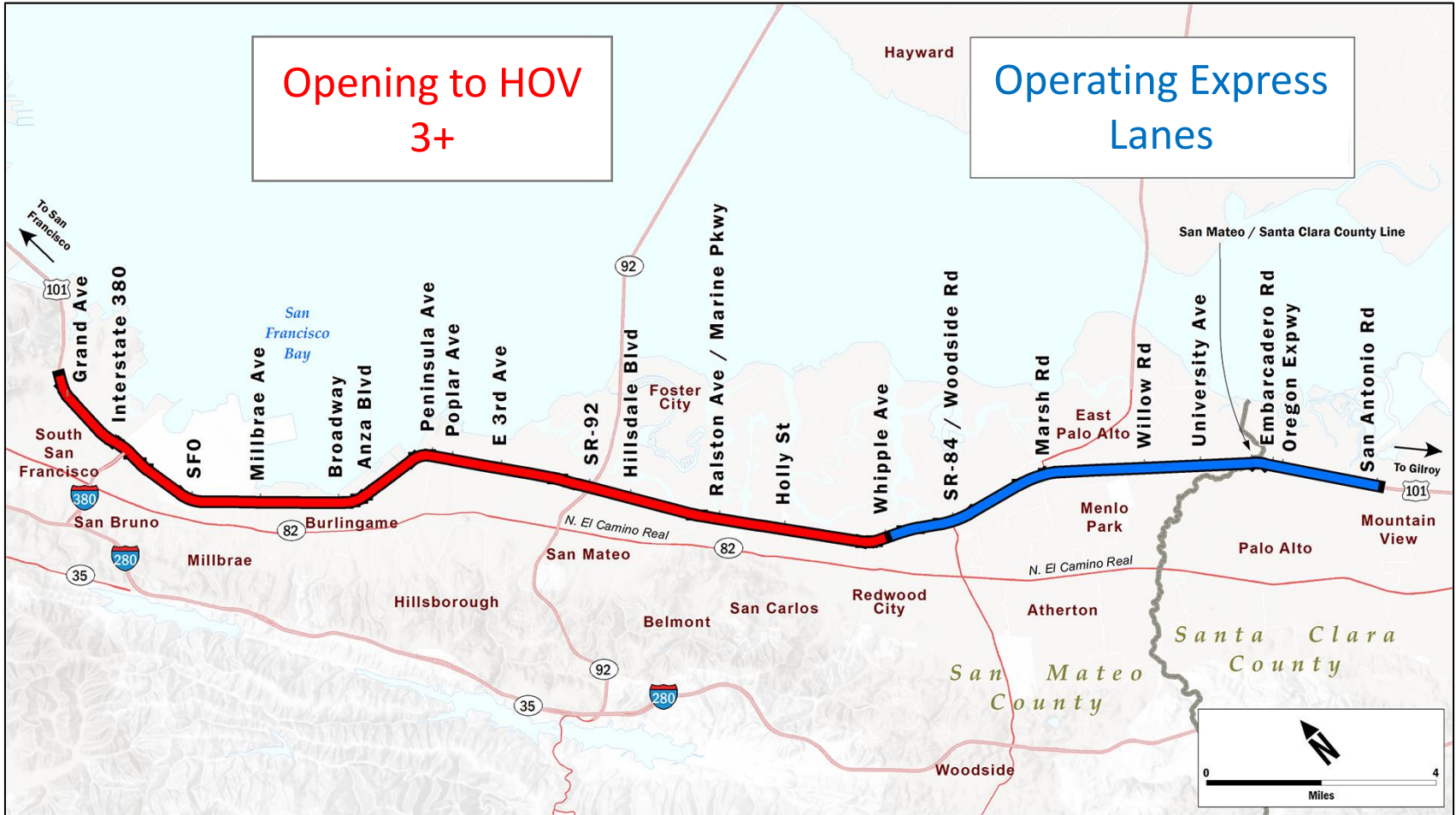
- Construction Progress
- Financial and Risk Status
- Project Spotlight – Opening to HOV3+
- Public Outreach Activities



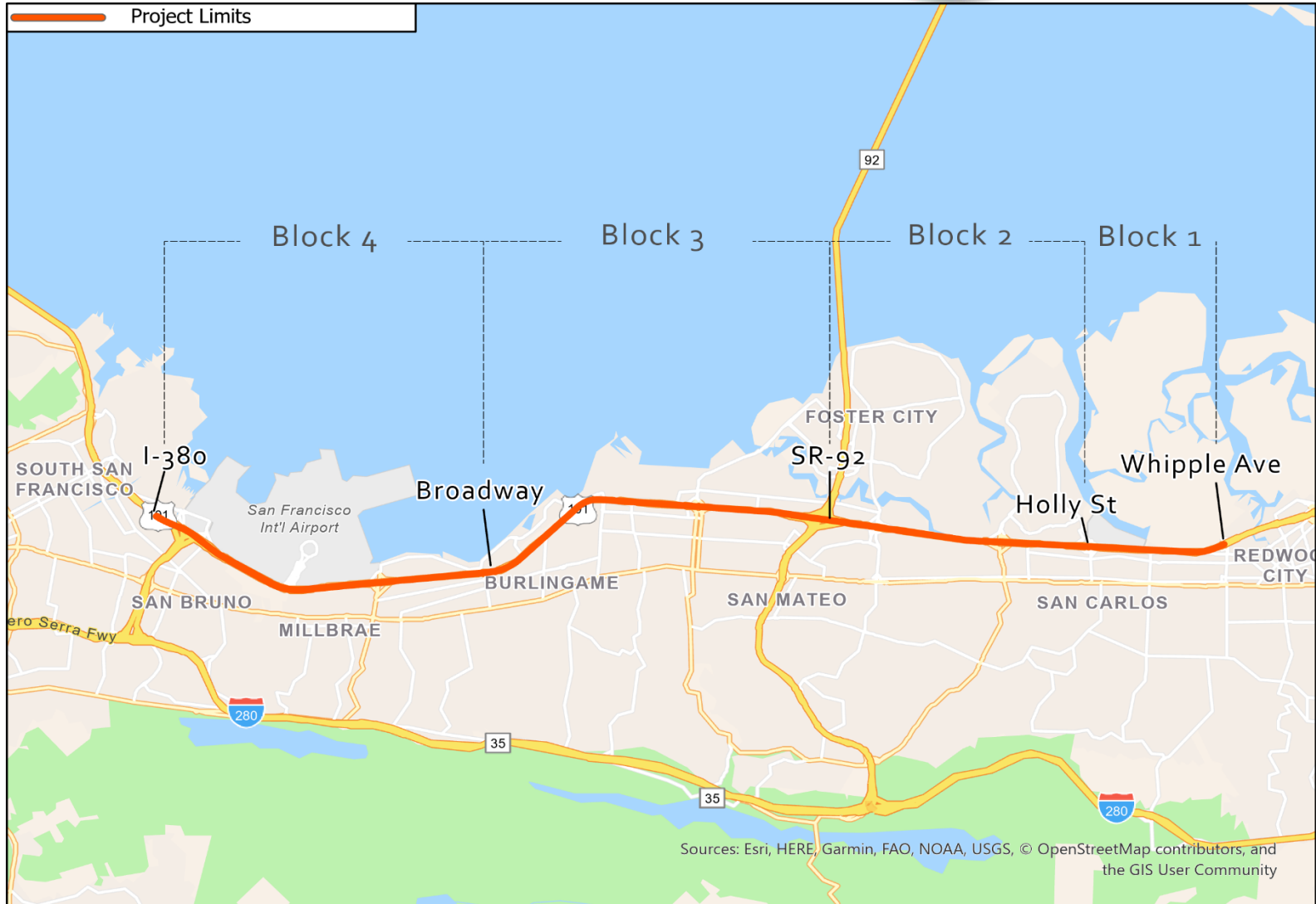
- **Construction Progress**
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# SM 101 EXPRESS LANES PROJECT

## PROJECT LIMITS



# SM 101 EXPRESS LANES PROJECT NORTH CONTRACT CONSTRUCTION BLOCKS



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



**Kiewit work North of Whipple through September:**

- \$323.4M of \$330M completed (98%) with 95% time elapsed
- All 33 PG&E service points energized
- Civil contract work complete – working through final cleanup

**TransCore work North of Whipple through September:**

- Equipment installation completed in Blocks 1, 2, and 4
- Fiber splicing operation completed in Blocks 1 and 4
- Site commission testing completed in Blocks 1 and 4

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



**280/380 Staging Yard Cleanup**



August 2022



October 2022

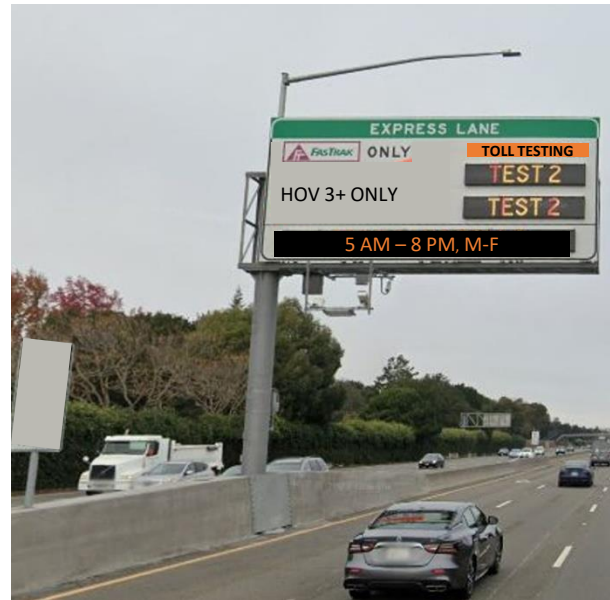
# SM 101 EXPRESS LANES PROJECT NORTH CONTRACT WORK ONGOING



## Sign Overlays



Under Construction



Toll Equipment Testing



Open to Tolling



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



## North of Whipple:

- Open lanes north of Whipple Ave in HOV3+ mode (Early Nov)
- Complete toll equipment installation in Block 3 (Nov)
- Splicing all toll equipment to fiber optic cable in Blocks 2 and 3 (Nov)
- Test north segment express lanes (Dec-Feb)



- Construction Progress
- **Financial and Risk Status**
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# SM 101 EXPRESS LANES PROJECT

## CURRENT PROJECT COST BY CONTRACT



Contract	Budget	Estimated Cost <sup>(1)</sup>	Variance	Expended as of 9/30/22 <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	20.19	20.19	0.00	20.19	100%	100%	●
Design & Right of Way	41.19	41.19	0.00	38.07	92%	98%	●
South Contract – Civil	74.81	74.81	0.00	74.24	99.2%	100%	●
North Contract - Civil	392.02	392.02	0.00	381.31	97%	98%	●
<i>North Contract – Civil</i>	<i>370.66</i>	<i>390.26</i>	<i>19.60</i>	<i>361.71</i>	<i>98%</i>	<i>98%</i>	●
<i>Project Contingency <sup>(5)</sup></i>	<i>21.36</i>	<i>1.76</i>	<i>(19.60)</i>	<i>19.60</i>	<i>92%</i>	<i>98%</i>	●
Toll System	48.12	48.12	0.00	22.74	47%	65%	●
<i>Toll System</i>	<i>43.44</i>	<i>45.92</i>	<i>2.48</i>	<i>20.26</i>	<i>47%</i>	<i>65%</i>	●
<i>Project Contingency <sup>(5)</sup></i>	<i>4.68</i>	<i>2.20</i>	<i>(2.48)</i>	<i>2.48</i>	<i>53%</i>	<i>65%</i>	●
<b>Highway Planting</b>	<b>4.80</b>	<b>7.80</b>	<b>3.00</b>	<b>0.00</b>	<b>0%</b>	<b>0%</b>	●
<b>TOTALS</b>	<b>581.14</b>	<b>584.13</b>	<b>2.99</b>	<b>526.28</b>	<b>92%</b>	<b>95%</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; update since previous report: \$2.96M Supplemental North Contract - Civil savings moved to North Contract – Civil Project Contingency

**SM 101**  
**EXPRESS LANES PROJECT**  
**FUNDING THE LANDSCAPE CONTRACT**



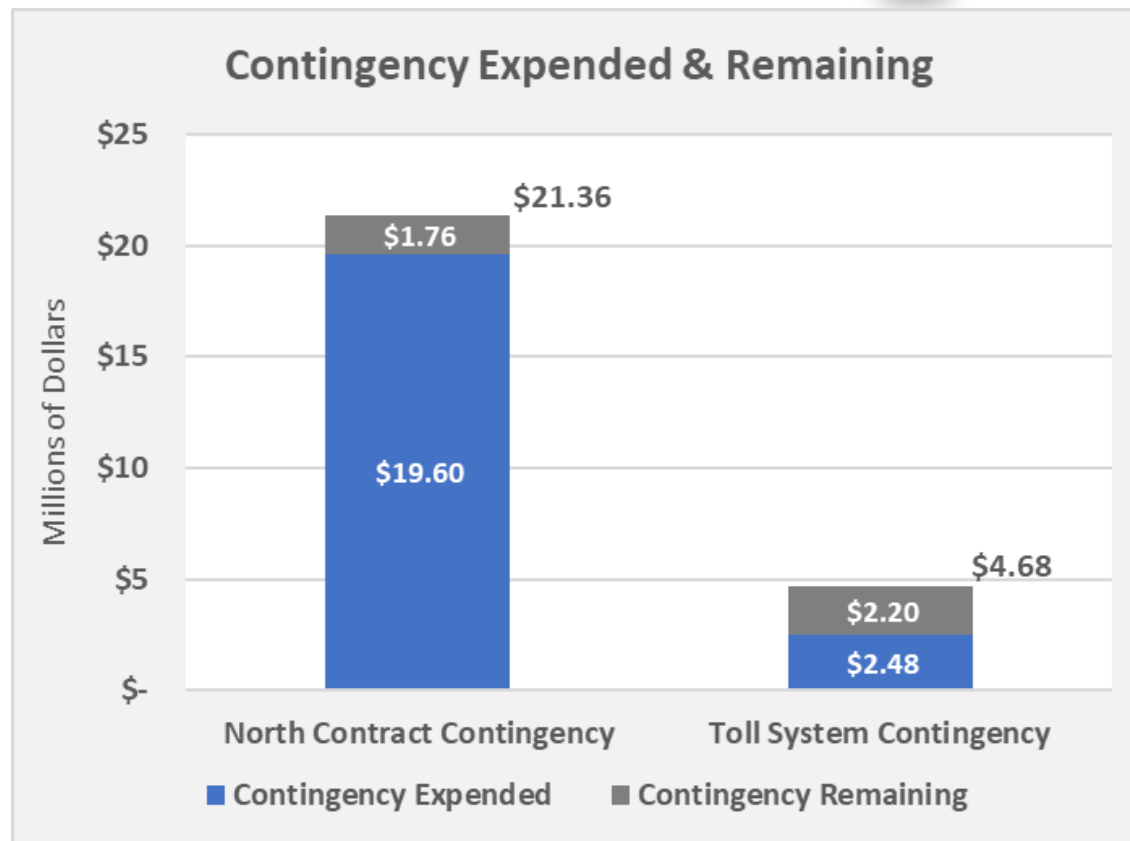
### The Need

	Cost & Funds
<b>Current Cost</b>	\$ 7,300,000
STIP-RIP	\$ 3,000,000
SMCTA	\$ 1,805,000
<b>Committed</b>	\$ 4,805,000
<b>Needed by Dec. 15, 2022</b>	<b>\$ 2,995,000</b>

### The Funding

Source	Savings Available by Mar. 2023
SMCTA	\$ 1,485,000
BAIFA	\$ 800,000
SB 1	\$ 700,000
STIP-RIP	\$ 450,000
<b>For Loan Repayment</b>	<b>\$ 3,435,000</b>

# SM 101 EXPRESS LANES PROJECT CONTINGENCY FUND BALANCES



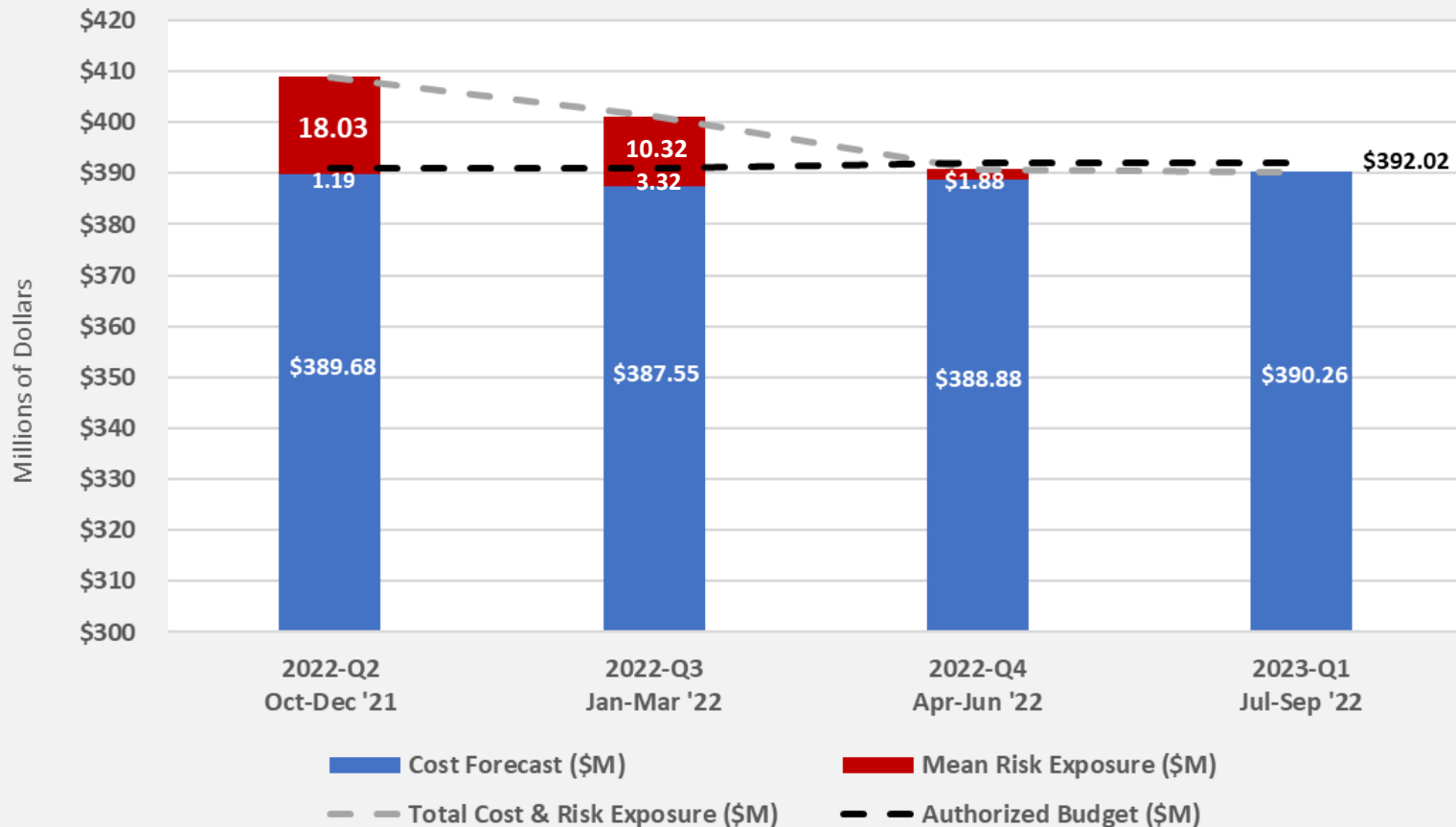
Contingency expended includes: Contract change orders for various reasons including, k-rail salvage, barrier foundation revisions, grade and drainage revisions, maintenance of landscape areas, misc. signage issues, and pavement corrections.

# SM 101 EXPRESS LANES PROJECT

## CIVIL CONTRACT COST ASSESSMENT



North Contract Cost Forecast and Risk Exposure vs. Authorized Budget

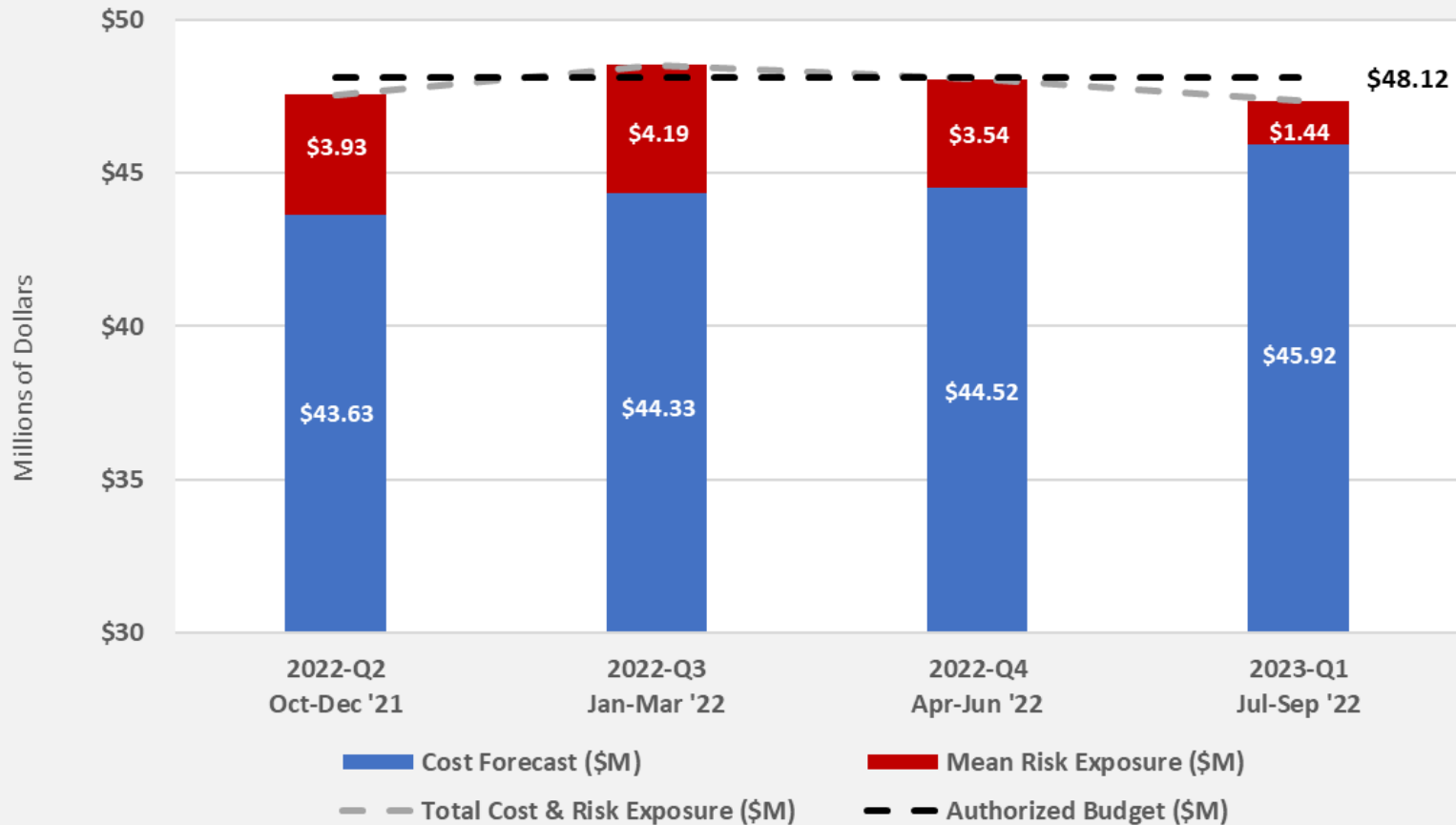


# SM 101 EXPRESS LANES PROJECT

## TOLL SYSTEM COST ASSESSMENT



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





- Construction Progress
- Financial and Risk Status
- **Project Spotlight – Opening to HOV3+**
- Public Outreach Activities



# SM 101 EXPRESS LANES PROJECT EXISTING LANE CONFIGURATION



# SM 101 EXPRESS LANES PROJECT

## LANE OPERATING MODES DURING TRANSITION

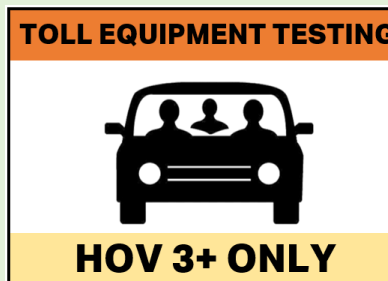


LANE CLOSED

*Channelizers and Barricades in Place*

System Installation

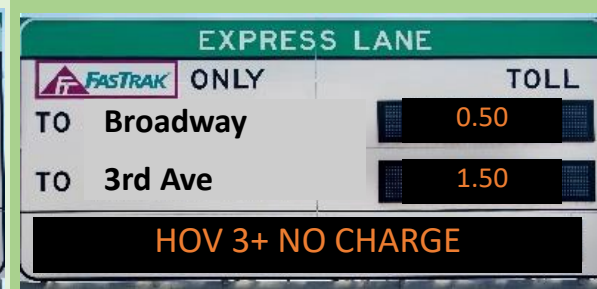
*SUMMER 2022*



EXPRESS LANE IN  
HOV 3+ ONLY MODE

Toll Equipment Testing

*FALL 2022*



TOLLING

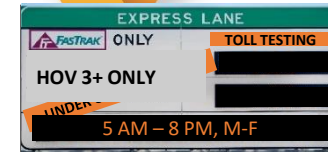
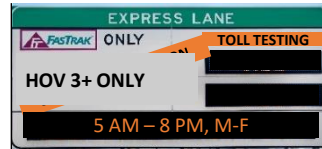
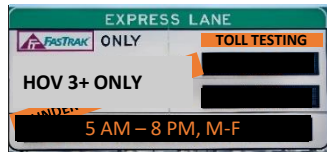
Express Lane Operations

*EARLY 2023*

# SM 101 EXPRESS LANES PROJECT HOV 3+ OPENING SEQUENCE



Stage 1: Install Sign Overlays



Connect to open Express Lane at Whipple Ave

Stage 2: Remove Temporary Barriers

**OPEN TO HOV 3+**

Southbound

# SM 101 EXPRESS LANES PROJECT CHANNELIZER REMOVAL METHOD #1



**A scraping technique was attempted first**

- Inefficient
- Damages pavement

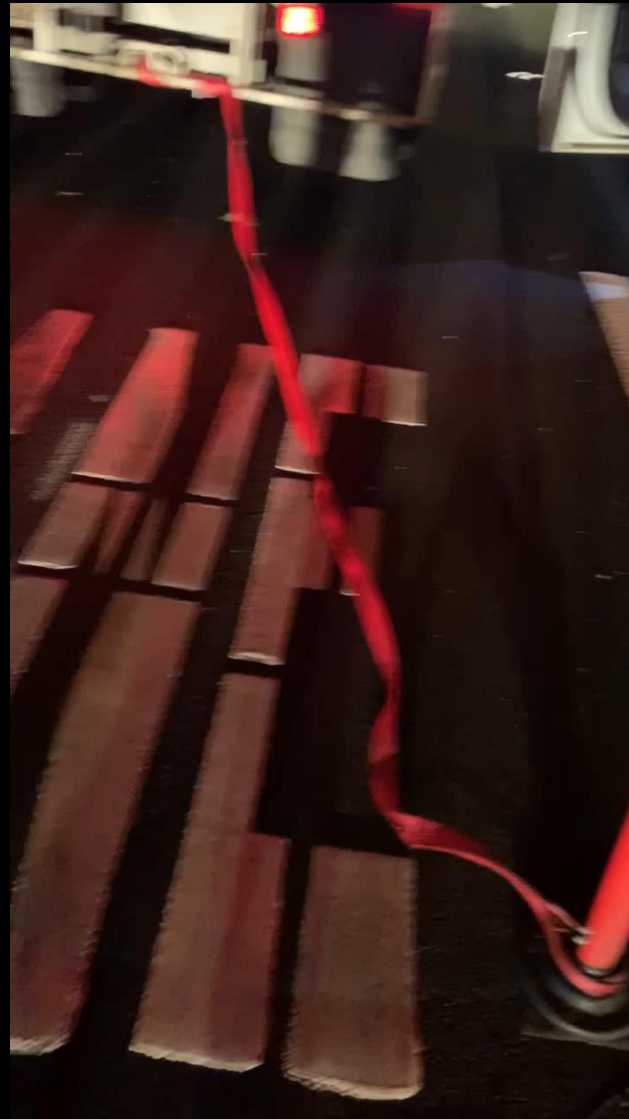
# SM 101 EXPRESS LANES PROJECT CHANNELIZER REMOVAL METHOD #2



# SM 101 EXPRESS LANES PROJECT CHANNELIZER REMOVAL METHOD #3

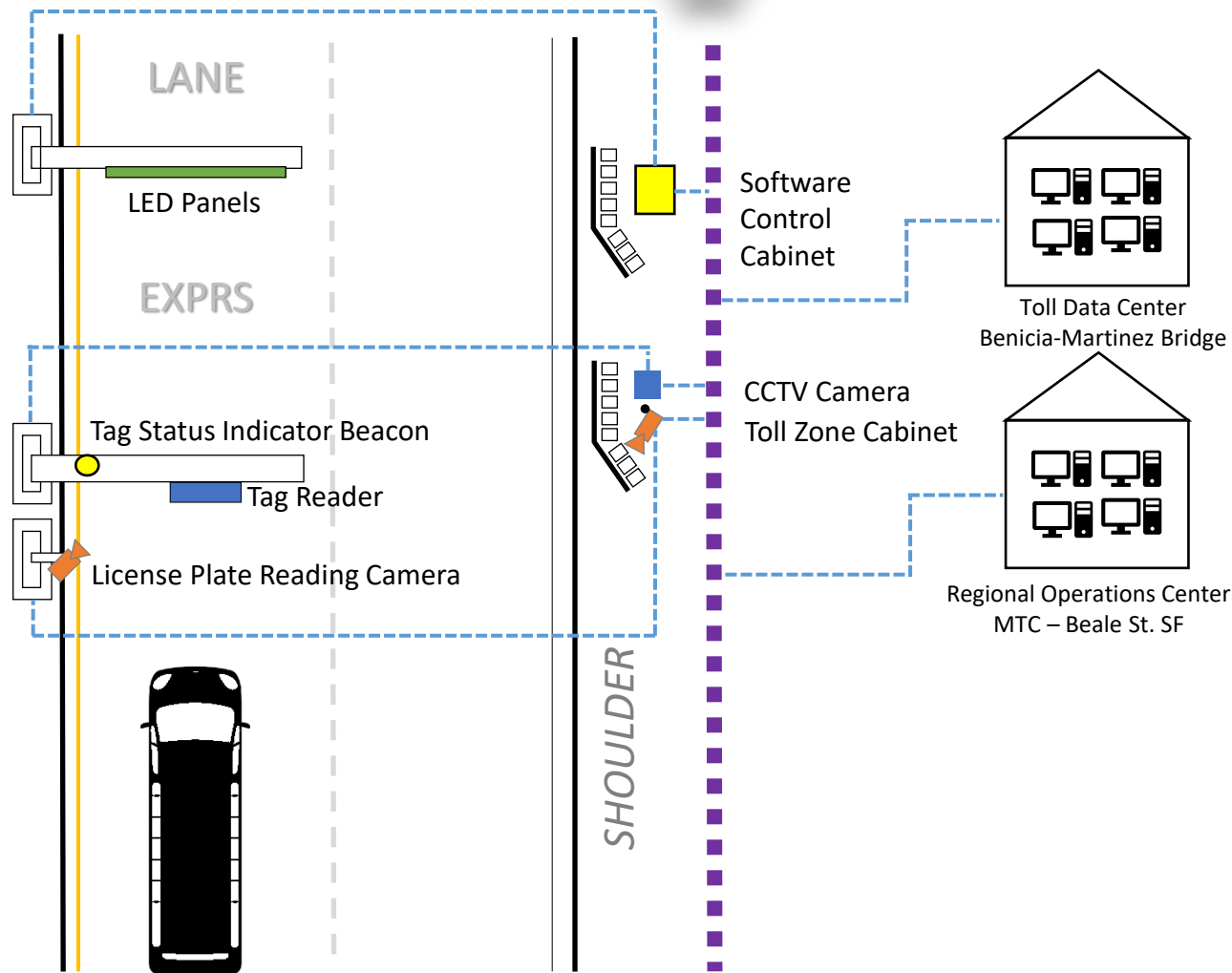
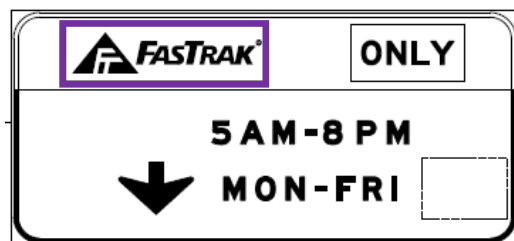
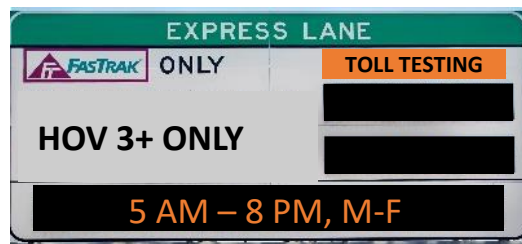


SM 101  
EXPRESS LANES PROJECT  
CHANNELIZER REMOVAL METHOD #4



# SM 101 EXPRESS LANES PROJECT

## FINAL SYSTEM TESTING



Fiber Optic Cable





- Construction Progress
- Financial and Risk Status
- Project Spotlight – Opening to HOV3+
- **Public Outreach Activities**

# SM 101 EXPRESS LANES PROJECT TOLL EQUIPMENT TESTING OUTREACH



## KEY MESSAGES:

- **HOV 3+ ONLY** During Toll Equipment Testing
- Visit [101ExpressLanes.org](http://101ExpressLanes.org) to learn to use SM101 Express Lanes

## OUTREACH TOOLS:

- Project Update E-Blast
- Updated Caltrans project website
- Social Media (Twitter and Facebook)
- Traffic Advisory (for media)
- Caltrans Overhead Changeable Message Signs
- Variable Toll Message Signs



# SM 101 EXPRESS LANES PROJECT START OF TOLLING OUTREACH



- **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 & 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)
  - Digital/Social
  - Radio
  - Multi-lingual outreach



# Questions?