

# SM 101 EXPRESS LANES PROJECT

SOUTH SEGMENT  
TOLL COMMENCEMENT PREPARATION

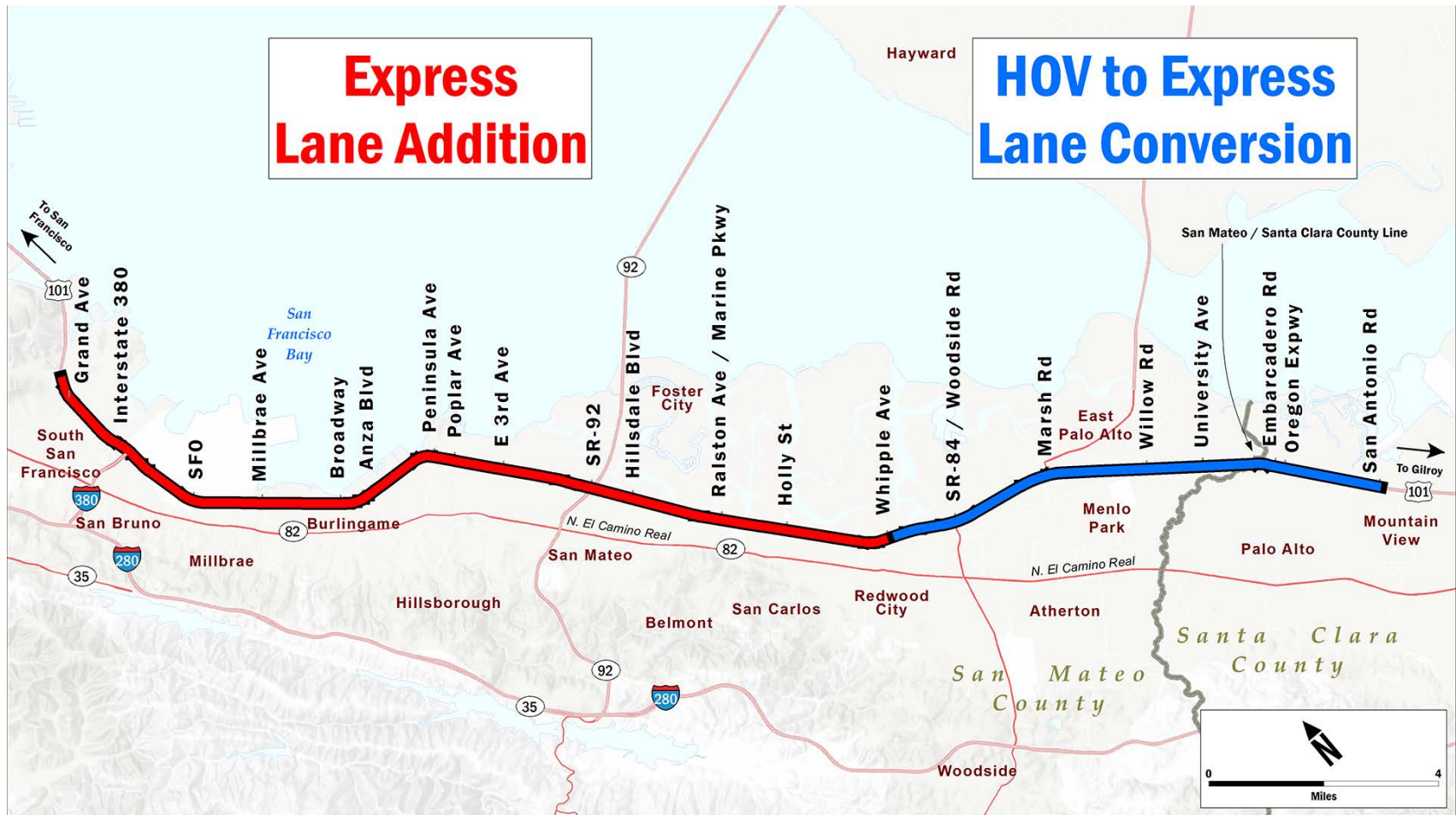


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JPA Board Meeting September 10, 2021

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# SM 101 EXPRESS LANES PROJECT



# SM 101 EXPRESS LANES PROJECT AGENDA



- Overview
- System Installation
- Commissioning
- Corridor Testing
- Risks to Start of Tolling

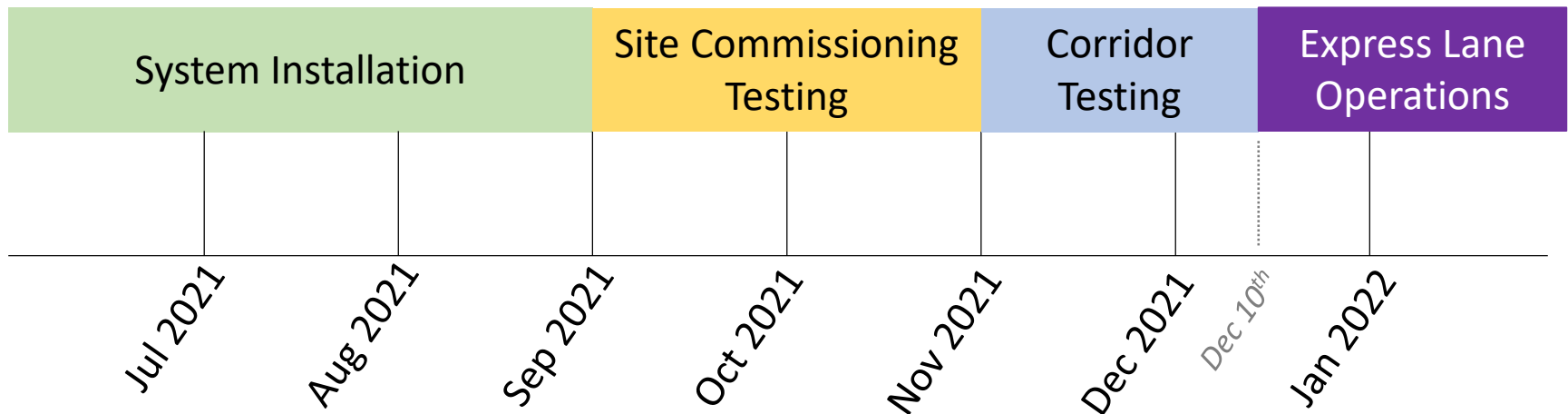
# SM 101 EXPRESS LANES PROJECT AGENDA



- **Overview**
- System Installation
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# SM 101 EXPRESS LANES PROJECT

## SOUTH SEGMENT OPENING TIMELINE





- Overview
- **System Installation**
- Commissioning
- Corridor Testing
- Risks to Start of Tolling

# SM 101 EXPRESS LANES PROJECT

## FIBER OPTIC CABLE INSTALLATION



# SM 101 EXPRESS LANES PROJECT

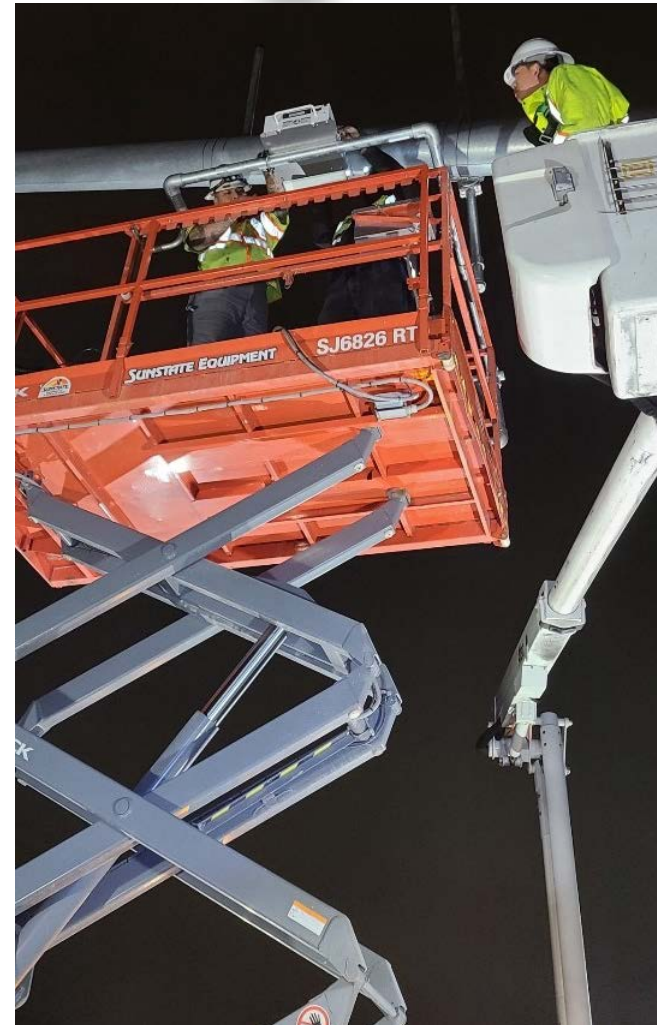
## VTMS INSTALLATION



# SM 101 EXPRESS LANES PROJECT TOLLING COMPONENTS INSTALLATION



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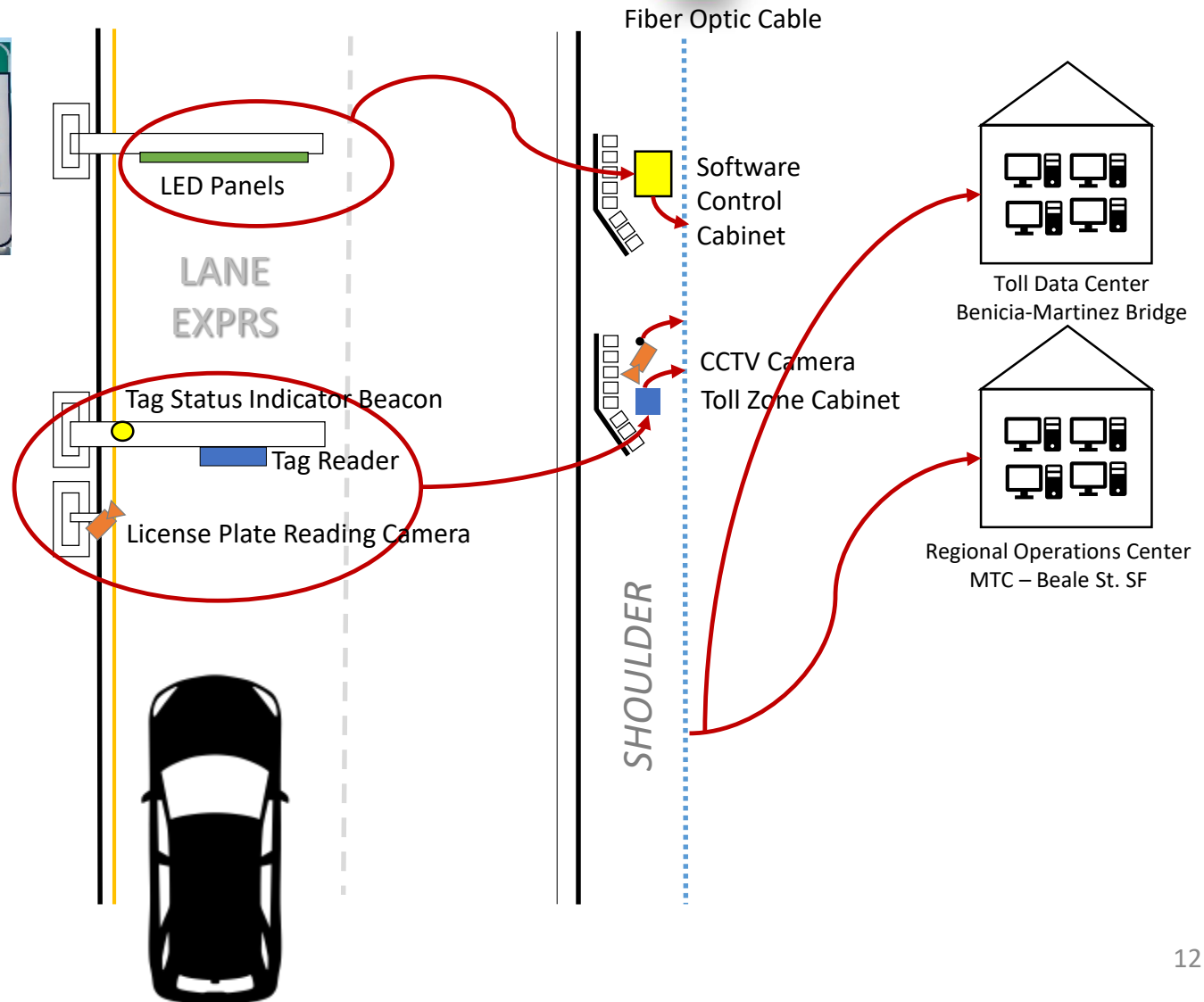
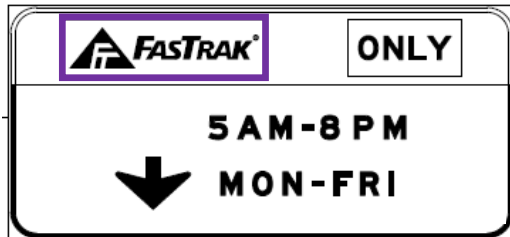
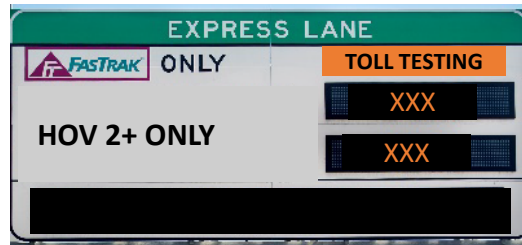


- Overview
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- Southern Segment Express Lane Tolling Equipment
  - 18 Read Points
  - 12 Variable Toll Message Signs
  - 15 Vehicle Detection System Points
  - 19 Closed-Caption Television Cameras

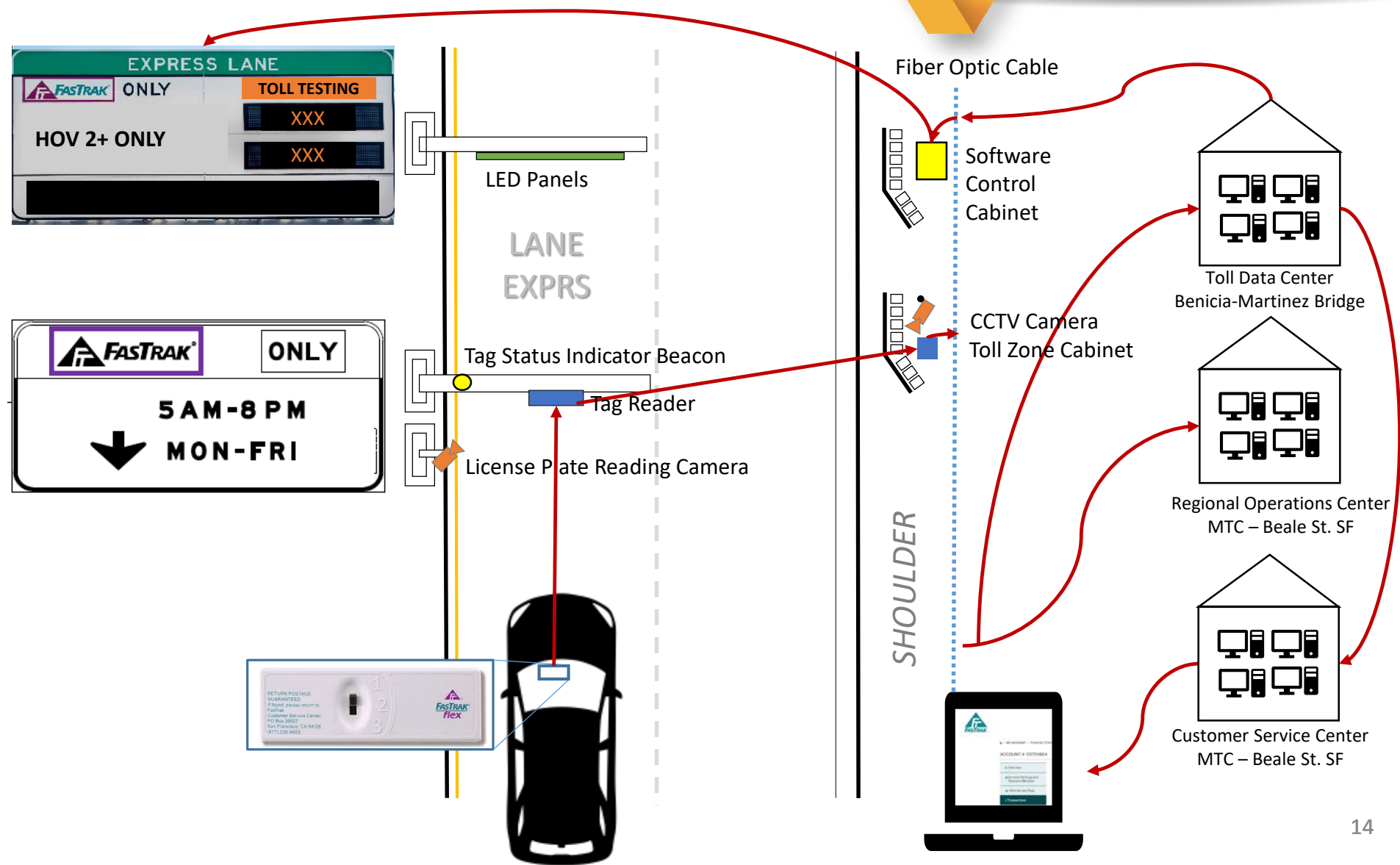
# SM 101 EXPRESS LANES PROJECT COMMISSION TESTING (VERIFYING THE EQUIPMENT)





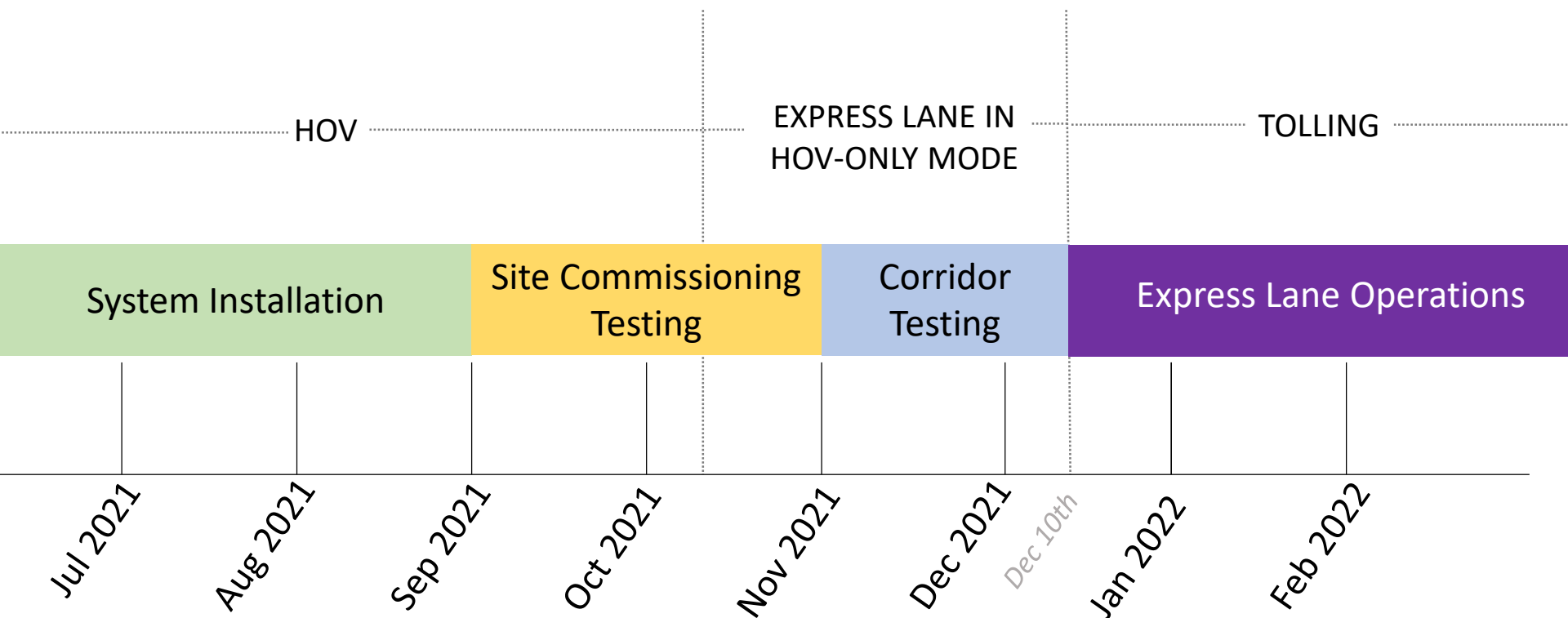
- Overview
- System Installation
- Commission Testing
- **Corridor Testing**
- Risks to Start of Tolling

# SM 101 EXPRESS LANES PROJECT CORRIDOR TESTING (VERIFYING THE SYSTEM)



# SM 101 EXPRESS LANES PROJECT

## LANE OPERATING MODES DURING TRANSITION





- Overview
- System Installation
- Commission Testing
- Corridor Testing
- **Risks to Start of Tolling**

# SM 101 EXPRESS LANES PROJECT

## RISKS TO START OF TOLLING

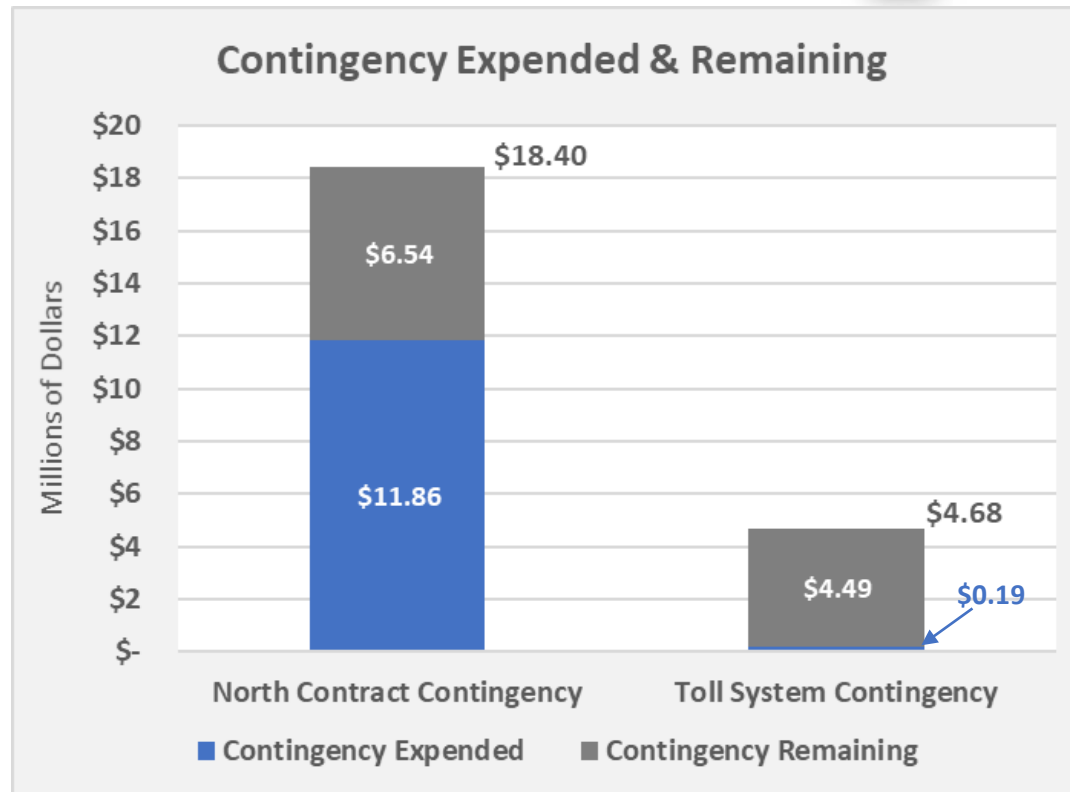


- COVID
- Rain/Weather
- Installation Challenges
  - Damaged Equipment
  - Construction Errors
  - Lane Closure Conflicts
  - Supply Chain Complications
- Repeated Testing Failures



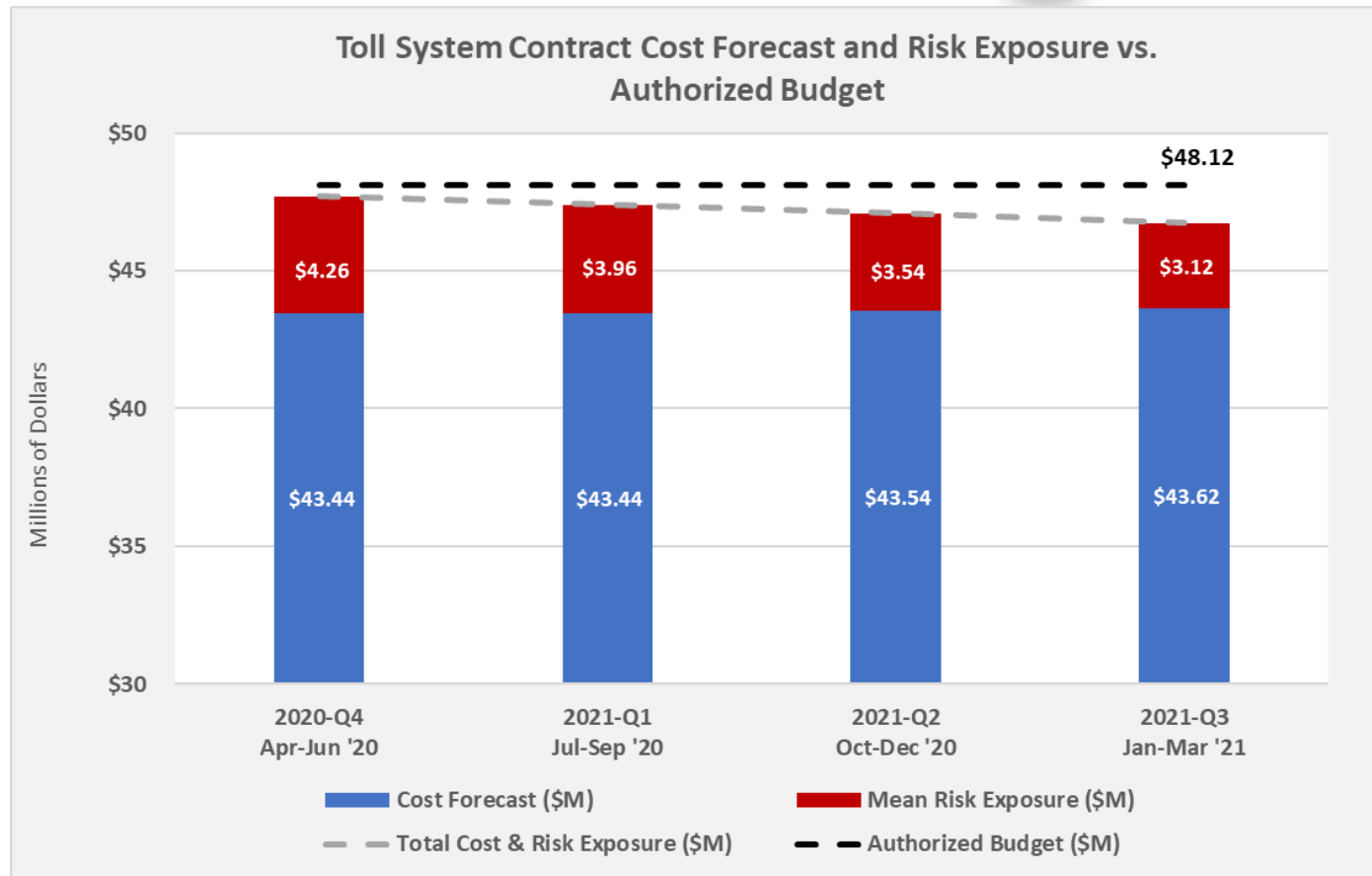
# SM 101 EXPRESS LANES PROJECT

## CURRENT CONTINGENCY USAGE & BALANCE



- Contingency expended includes the following:
  - New contract change orders for various reasons including, barrier foundation revisions, grade revisions, maintenance of landscape areas, and misc. signage issues
  - Contract bid item overruns

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# Questions?