



# Next Generation Fare Gates Update

September 14, 2023 | BART Board of Directors Meeting



# Highlights

- ❖ The District's #1 Project
- ❖ Accomplishments to Date
- ❖ Next Steps
- ❖ Timeline
- ❖ Questions



# The District's #1 Project

## Next Generation Fare Gates Project

- Gate replacements for 50 stations + 5 future stations
  - West Oakland prototypes in December 2023
- Contract Award: April 2023
- Notice to Proceed: May 2023
- Day One:
  - Developed Strategies for Success
  - On-Site Vendor Workspace
  - Alerted Stakeholders



# Accomplishments to Date



Preliminary Design Review of Gate



Procurement of Materials & Services



Design Evolution

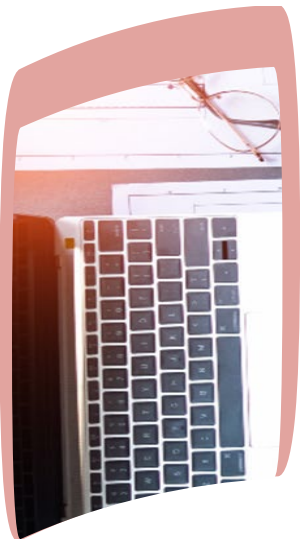


Prototype Station Implementation Plan

# Preliminary Design Review of Gate



- ✓ Accelerated schedule  
5-day review cycle versus 30 days for submittals



- ✓ 54 submittals
- ✓ 16 requests for information
- ✓ Interdisciplinary review team
- ✓ More than 50 reviewers

# Design Evolution



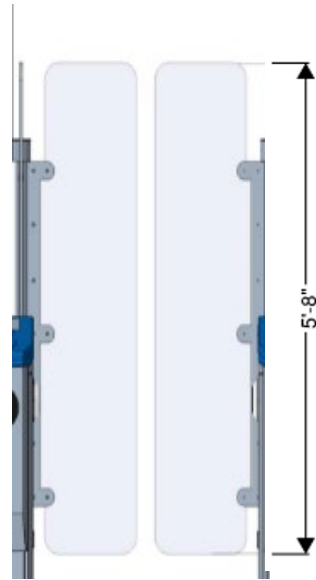
✓ Improved Door Criteria

✓ Prototype Door Options

## Different Barrier Material

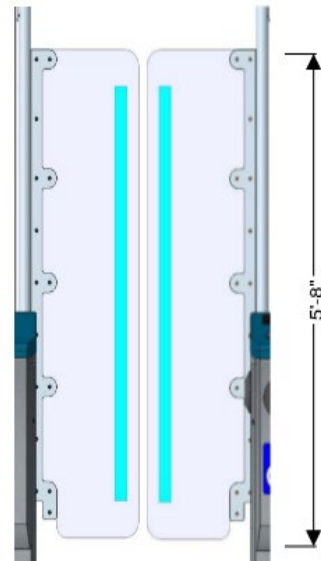
### Vendor Proposed:

Accessible Door  
Frameless Laminated Glass Panel



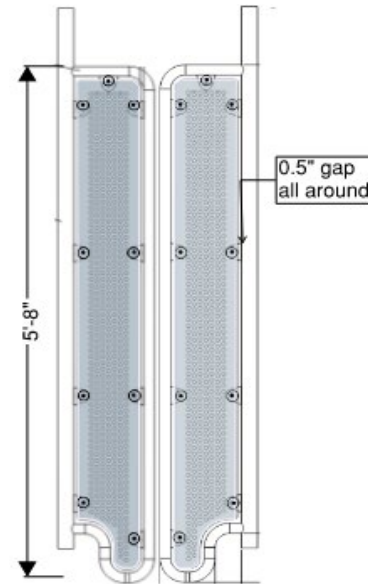
### Option 1:

Accessible Door  
Polycarbonate Panel



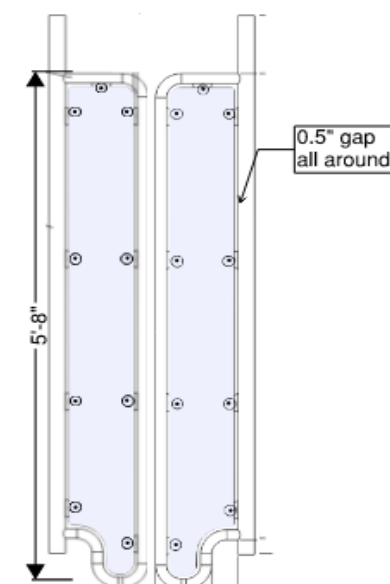
### Option 2:

Stainless Steel Frame with  
Perforated Metal Panel



### Option 3:

Stainless Steel Frame with  
Polycarbonate Panel



## Door Criteria Improvements

Barrier Gap

Constant Pressure

# Climb-Over Deterrents



# Procurement of Materials and Services



## Critical Equipment & Components

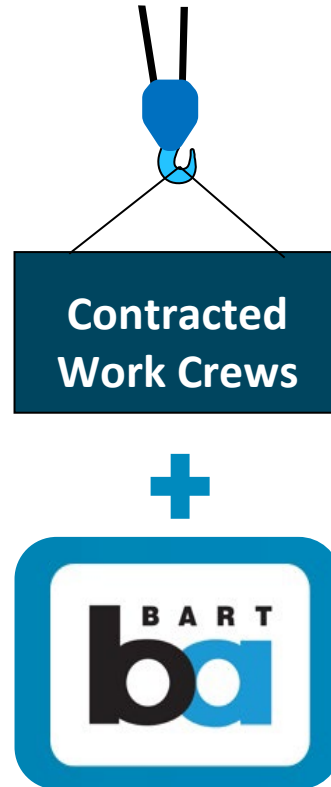


Communications Switch



Gate Power Transformer

## Electrical & Comms Construction

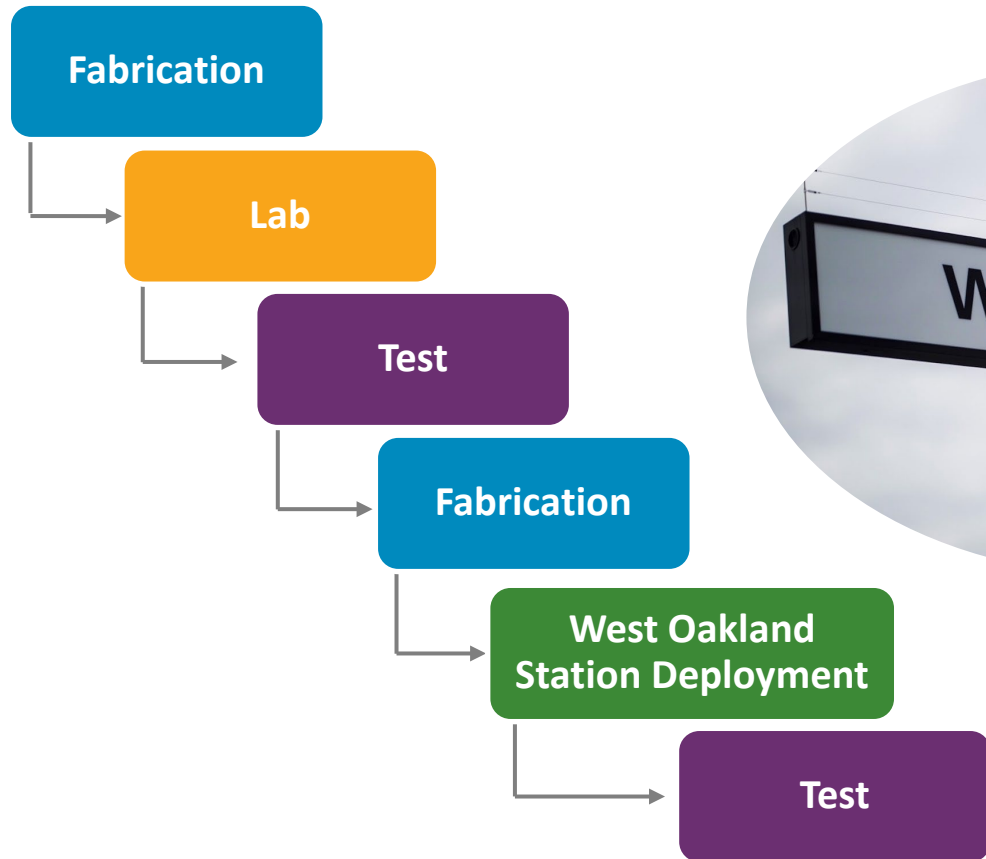


- ✓ Accelerated Schedule
- ✓ Dedicated District Staff
- ✓ Long Lead Time on Materials Ordered
- ✓ Commissioning Support

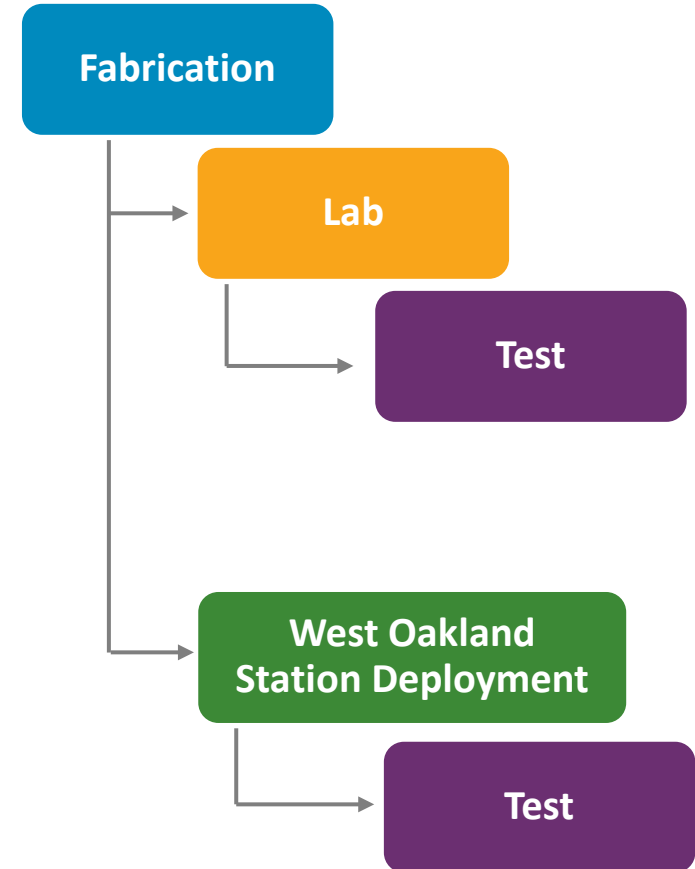


# West Oakland Deployment – Testing

## Standard Delivery Process



## Accelerated Delivery Process



# West Oakland – Implementation



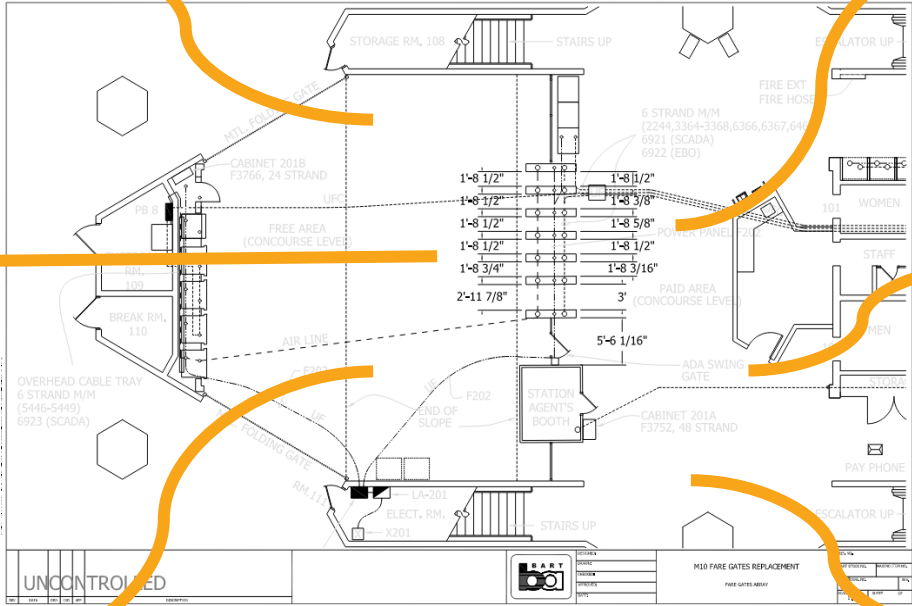
**Built-in Conduits & Steel Bars**



**Communication Equipment**



**Conduit Access**



**West Oakland Engineering Records**



**Anchorage**



**Electrical Panels**



**Communication & Power Cables**

- ✓ Minimize impact to riders
- ✓ 15+ combined field and site visits to West Oakland alone
- ✓ Multiple alternatives and contingency plans
- ✓ More than 12 BART departments directly involved

# West Oakland – Deployment Site Logistics

## Accelerated Schedule

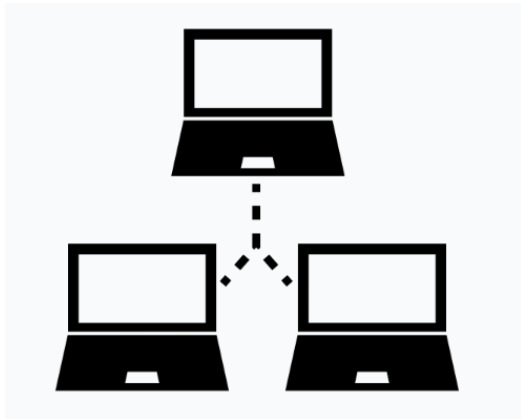
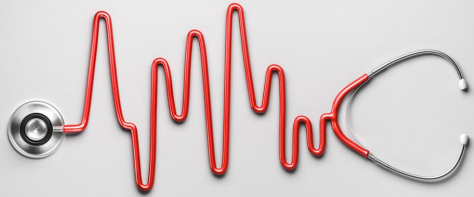


Existing gates which will be out of service

Temporary accessible entrance/exit gates during construction

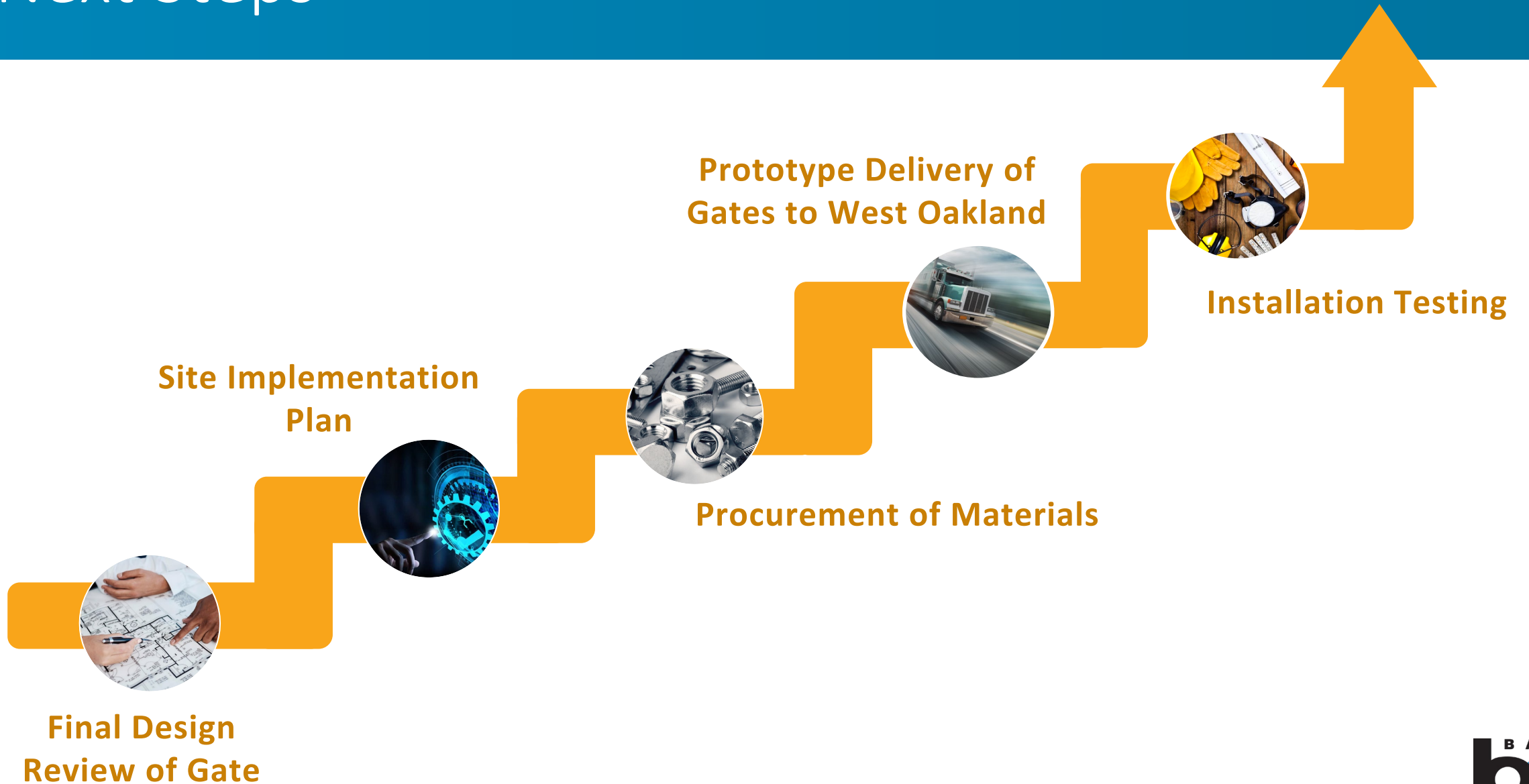
# Integration Challenges

Monitoring Tools/Dashboards

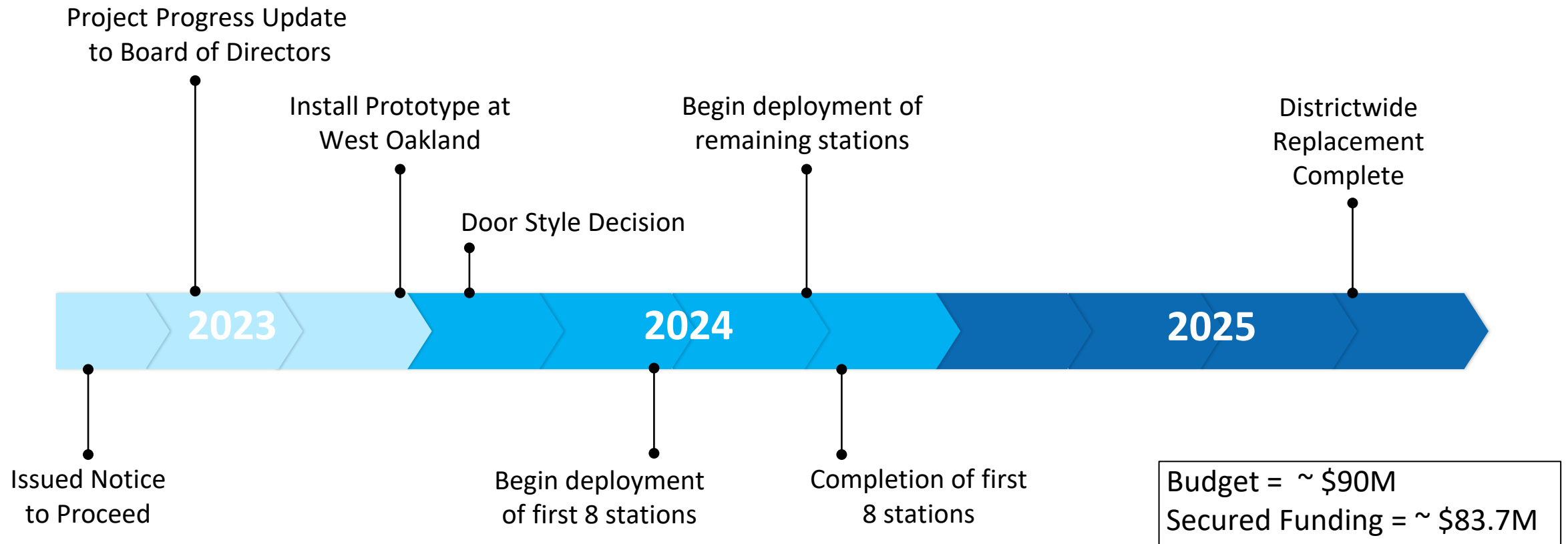


- Monitoring
- Controls
- Complex Systems Integration

# Next Steps



# Timeline



Abeni Allen	Barney Louie	Dave Taylor	Ho-Shing Chau	Kimberly Alameda	Phaethon Brown	STraffic Team
Adam Flynn	Bill Kepthart	David Garcia	Huandong Guo	Lacy Vong	Priya Mathur	Sunni Gunawardena
Ahmed Abduljabar	Bradley Harris	David Pultz	Irene Ho	Maansii Chirag Sheth	Qing Liu	Suresh Devarajan
Aileen Hernandez	Bradley Matthews	David Wen	James Pyne II	Man Hong Lam	Randall Purvis	Tera Stokes-Hankins
Aisha Hampton	Brandi Taylor	Daysia Washington-Cobb	Jason Hekker	Markus Ngo	Randall Radford	Thomas Wong
Akiri Johnson	Brian Tinsley	Denise McDonald	Javieree PruittHill	Marshalette Ramsey	Ray Painter	Timothy Lohrentz
Albert Louie	Bruce King	Denise Williams	Jeffrey Martz	Martina Zuchetti Frignani	Raymond Pascual	Tony Zielonka
Albert Schmitt	Calvin Yee	Dennis Markham	Jeffrey Yan	Matthew Richmond	Richard Fuentes	Tuan Hoang
Alex Caburnay	Candace Fong-Chan	Derry Moten	Jefre Riser	Michael Forte	Robert Ballard	Vanessa Choy
Alex Walker	Carlbert Fuertes	Donna Lee	John Mazza	Michael Hill	Robert Day	Viet Nguyen
Alma Basurto	Carlina Leong	Emily Chou	John Wallace	Michael McCormick	Robert Franklin	Wahid Amiri
Amanda Cruz	Carlos Munoz	Eugene Planta	John Yen	Michael Wilkinson	Robert Jaques	Weldon Chen
Amanda Palmquist	Celestine Do	Eric Cho	Jonathan Castaneda	Michael Wong	Roman Garcia	Wendy Wheeler
Anaïs Mailinge	Celia Morales Flores	Evan Brown	Jorge Saavedra	Michelle Robertson	Ryan Huang	William McKay
Anh Doan	Celine Schafer	Fernando Flores	Joseph Austria	Mitra Moheb	Saied Moshtagh	Zecharias Amare
Anoulom Chaiyasith	Charlie Greer	Francisca Mbugua	Joseph Lipkos	Mohammed Khan	Salvatore Bruno III	Zihui Huang
Antoin Vo	Chien-Po Wang	Greg Lombardi	Josh Teo	Molly Golson	Sam Hui	And many many more!
April Quintanilla	Christian Reif	Gus Baldauf	Jovita Shackelford	Myat San	Shannon Dodge	
Arash Shamohamadi	Christian St Denis	Harmanjot Singh	Katherine Ogburn	Ni Lee	Shelehia Meisner	
Aung Htut	Christopher Filippi	Herbert Diamant	Kenneth Tolbert	Paul Korczak	Shihua Nie	
Balvir Thind	Chuanqi Li	Hoa Sin	Khan Kabir	Patrick Emmons	Steven Dietrich	

# Thank you!

