

# Broadway Burlingame Grade Separation Project

## Project Delivery Evaluation

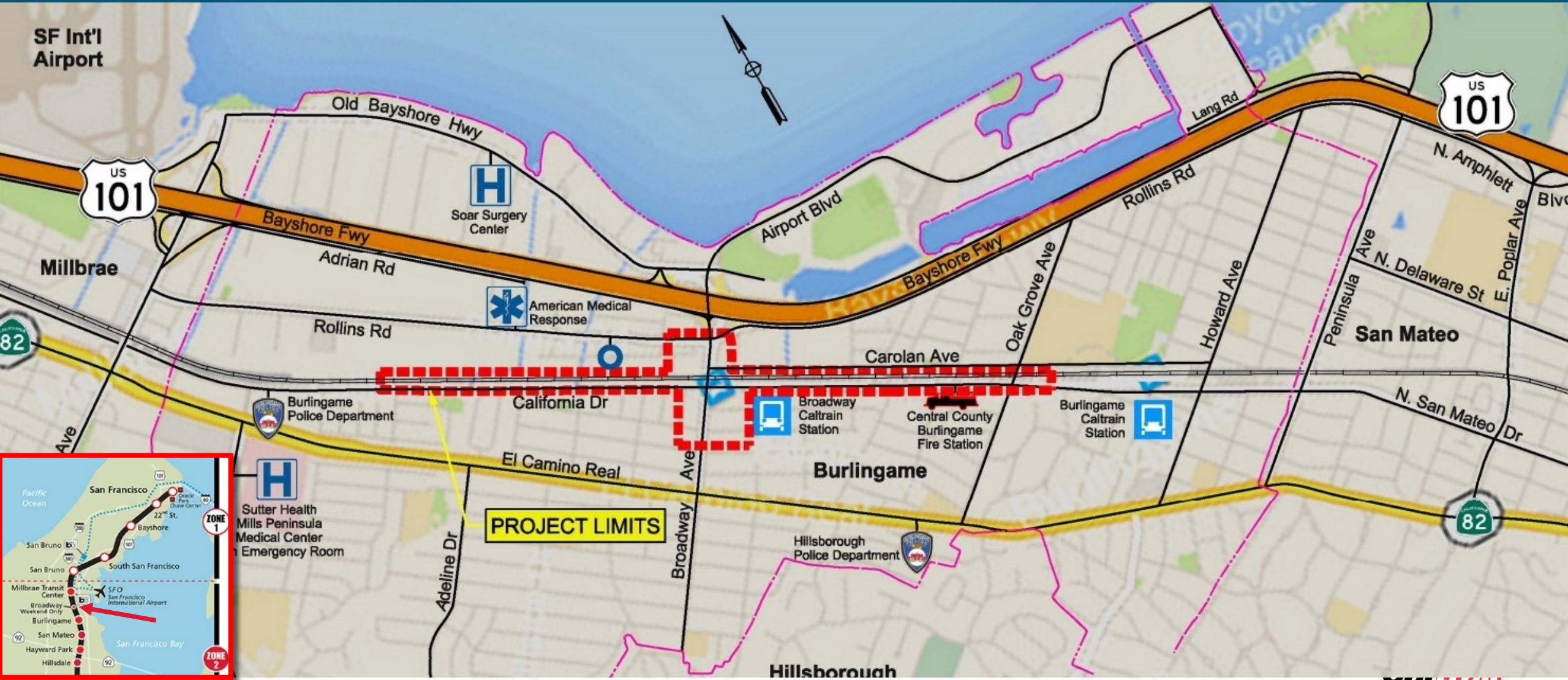
Technology, Operations, Planning, and Safety  
(TOPS) Committee

February 22, 2023





# Project Location



# Project Goals & Scope

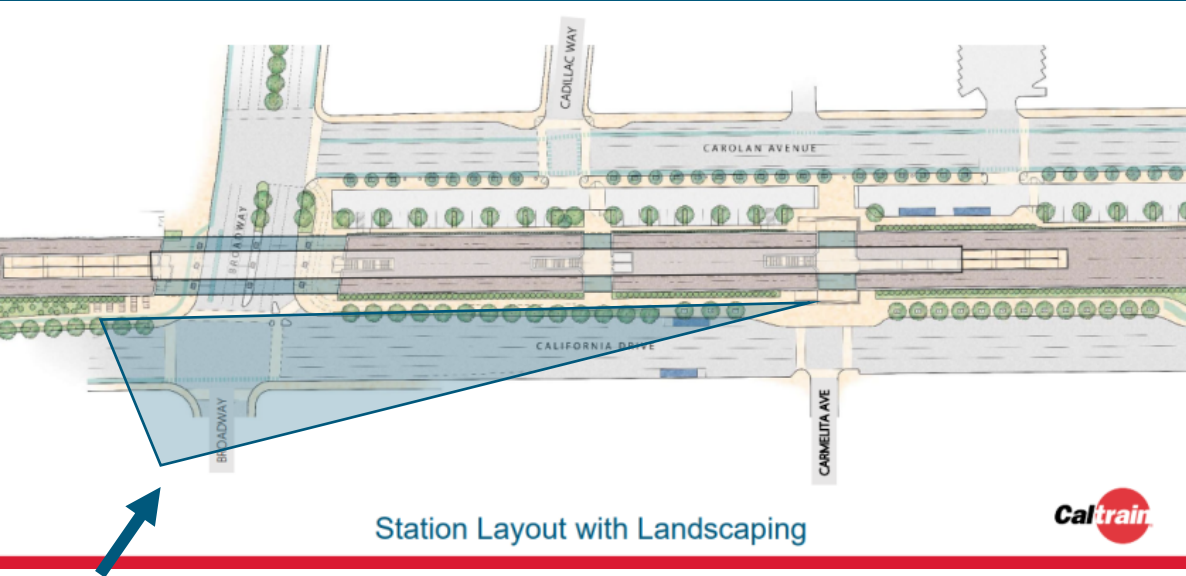
- Enhance **safety** for all modes of travel
  - Provide ADA compliant station
- Improve overall **traffic flow**
- **Reduce congestion**, delays and queuing
- **Minimize impact** of the project to the community and existing businesses

- **Elevate** the existing two-track railroad
- **Reconstruct** the Broadway station with a central boarding platform
- **Reconfigure** existing station parking
- Pedestrian/bicycle access improvements
- Temporary shoofly tracks during construction.



# Broadway/ California Drive

Source: City Council Meeting  
Project Aesthetics Presentation  
October 3, 2022



Station Layout with Landscaping

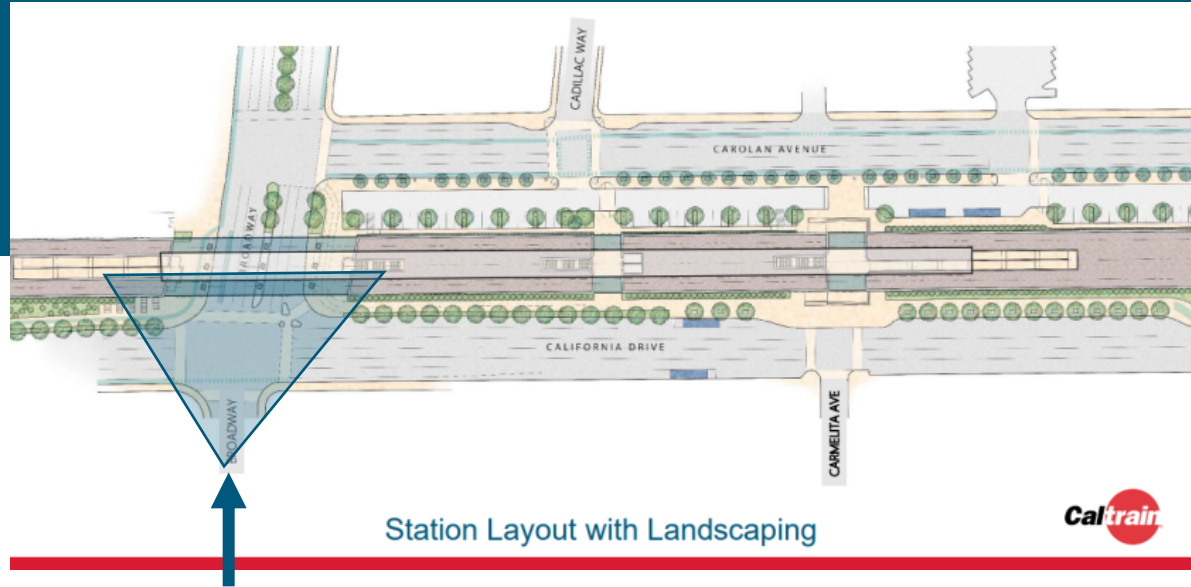


CONCEPTUAL RENDERING



# Broadway Overcrossing

Source: City Council Meeting  
Project Aesthetics Presentation  
October 3, 2022



Station Layout with Landscaping

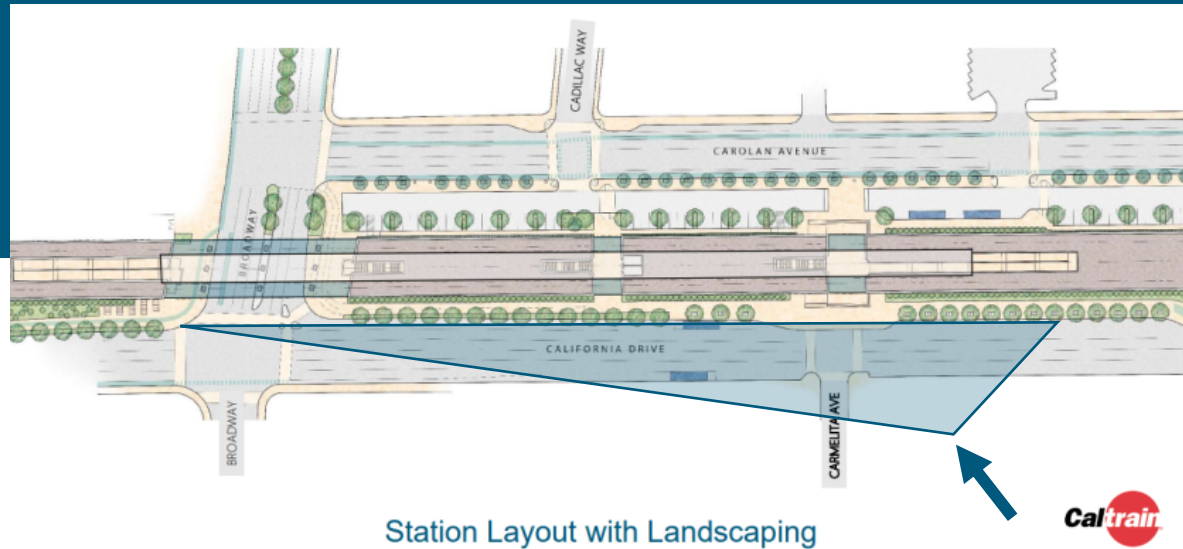


CONCEPTUAL RENDERING



# Carmelita Avenue Entrance

Source: City Council Meeting  
Project Aesthetics Presentation  
October 3, 2022



Station Layout with Landscaping



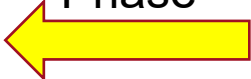
CONCEPTUAL RENDERING





# Current Project Schedule

Phase	Start	Finish
Project Study Report	Jan 2014	Jan 2017
Preliminary Engineering / Environmental Clearance	Mar 2017	Oct 2020
Final Design / Environmental Permits	Jan 2021	Jul 2024
Right of Way / Utilities	Jan 2024	Sep 2024
Construction	Oct 2024	May 2028

Current  
Phase  




# Legislative Basis for CMGC

## CA Public Utility Code section 103395 et. seq.

- Allows District to use CMGC delivery after evaluation of both traditional design-bid-build process and CMGC project delivery method in a public meeting
- District must make a written finding that the use of CMGC will accomplish one or more of the following objectives:
  - ***Reduce project costs***
  - ***Expedite the project's completion***
  - ***Or provide features not achievable through the design-bid-build method***
- Written findings must be made prior to the District executing a CMGC contract and included as part of any application for state funds for the transit project



# Project Delivery Methods Evaluated

## Design-Bid-Build (**Traditional**)

- Standard US project delivery method – provides the baseline delivery method
- Contractual obligations are well understood by design and construction industry
- Typically, the longest project delivery duration

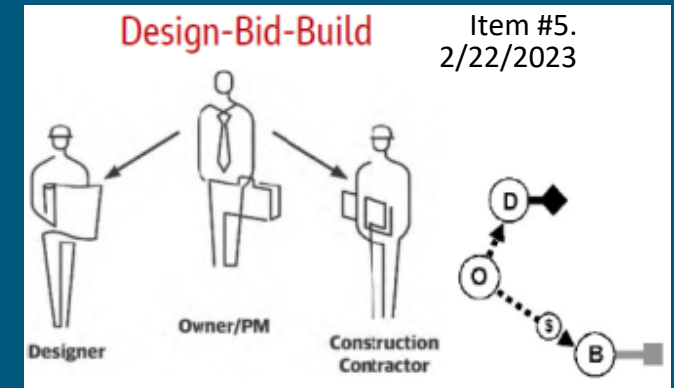
## Construction Manager/General Contractor (**CMGC**)

- Caltrain controls **Final Design**
- Maximizes cost savings opportunities – **commercial pricing**
- **Teamwork** develops during design reducing conflict risk during construction



# Design-Bid-Build

## Advantages & Disadvantages

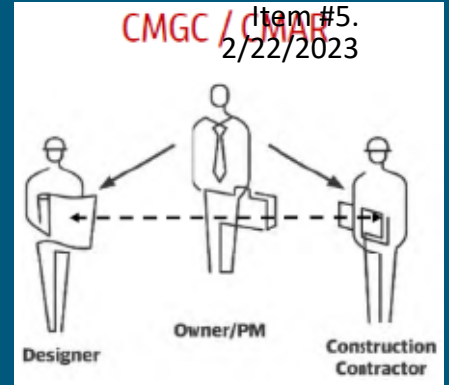


- Competitive bidding = **lowest initial price**
- Designer and contractor “**checks and balances**”
- Rights and obligations **well understood**
- Exemption from competitive bidding not required
  - No public hearing and record of findings
- **Optimistic pricing = increased likelihood of claims**
- **Eliminates communication** between Caltrain-Contractor on constructability, work plans, mean and methods, and phasing during final design
- **Risk of inadequate budget** for jurisdictional stakeholder expectations, QC, schedule control, etc.
- **Higher** Caltrain construction administration
- Potential to develop **adversarial positions**



# CMGC

## Advantages & Disadvantages



- Maximizes potential cost saving opportunities – **commercial pricing**
- Caltrain influences **conduct of construction**
  - Analyze options to meet stakeholder and jurisdiction expectations
  - Commercial pricing of options
  - Contractor buy-in
- **Competitive pricing**
  - **Open-book** evaluation of all costs
  - Appropriate **risk apportionment**
  - Sub-contracts are **low-bid**
  - Targeted **best value** to support diversity contracting
- **Claim risk reduced** due to early contractor involvement
- **Schedule flexibility** allows issue resolution
- **Teamwork** develops during pre-construction design phase, reducing conflict risk during construction
- **CMGC exemption requires public hearing**
- **Reduces competitive leverage on General Conditions**
- **Claims may occur at subcontractor level**

# Project Delivery Workshop

## Objective

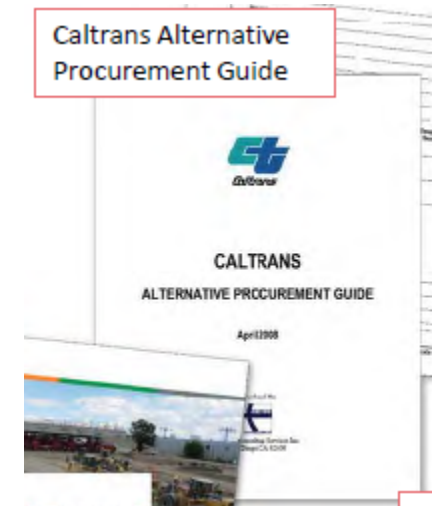
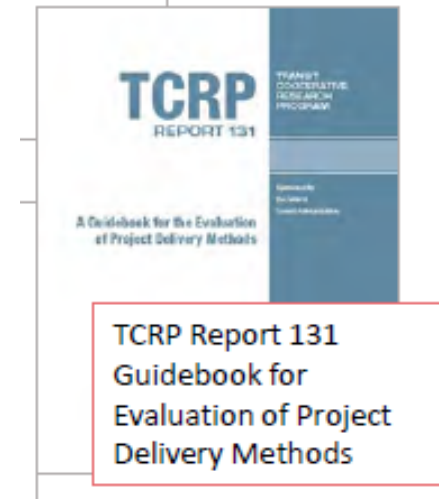
- Evaluate DBB vs CMGC
- Determine most appropriate delivery method

## Participants

- Caltrain, City of Burlingame, and SMCTA staff

## Evaluation Tools

- TCRP Report 131 Analytical Project Delivery Assessment
- Caltrans Modified Quantitative Project Delivery Method Selection



# Project Delivery Workshop - Results

Based on this project's **unique features and complexities**  
Construction Manager/General Contractor delivery method **most appropriate choice**

Ranking or Scoring Method	Design-Bid-Build	Construction Manager General Contractor
TCRC Report 131 Analytical Method	46	62
Modified Caltrans Qualitative Method	52	77





# CMGC Findings

## Reduce Project Costs

### Optimize Costs

- Provides total contract price (TCP)
- Provides less competitive leverage on general condition pricing

### Secure competitive construction bids

- Owner has an off-ramp to competitively bid the construction phase if TCP agreement not reached with contractor

# CMGC Findings

## Expedite Project's Completion

### Optimize overall schedule

- Achieves reduced delivery time by overlapping traditional DBB procurement tasks

### Targeted construction schedule reductions

- Allows for early enabling construction work such as utility relocations and other site preparation work
- Allows for early procurement of long-lead items

# CMGC Findings

## Provide features not achievable under design bid build method

- Provide **early contractor input** to design to incorporate preferred construction means and methods and phasing
- Allows for **collaboration** between the owner, designer, and contractor to deliver project requirements
- **Early bid packages:**
  - Utility relocation
  - Procurement and/or fabrication of long-lead items
  - Advance bid package for discreet critical path items – like bridge foundations and tunnel sections



# CMGC Schedule

Activity	Milestone Dates	Duration	Notes
Authorize Use of CMGC	Mar 2023		
Amend MOU and add to budget	Apr 2023		
Issue RFP for CMGC Pre-Construction Svcs.	Mid-May 2023		
Proposal Due	Mid-Jul 2023	8 weeks	Same as Mt. View project
Technical Evaluation	Mid-Aug 2023	4 weeks	
Interviews	1 <sup>st</sup> week of Sep 2023		
Negotiation	Last week of Sep 2023		
Notice of Intent to Award	Mid-Oct 2023		
CMGC Pre-Construction Contract Award	Dec 2023		



# Staff Recommendations

- **Make findings** that the use of CMGC will accomplish one or more of the required objectives pursuant to Public Utility Code Section 103395
- **Authorize use** of CMGC project delivery method

# Questions





FOR MORE INFORMATION  
[WWW.CALTRAIN.COM](http://WWW.CALTRAIN.COM)

