

# VTA's BART Silicon Valley Phase II Extension Project

Santa Clara  
Community Working Group Meeting

May 18<sup>th</sup>, 2023



# Agenda

- Welcome & Introduction
- Phase II Update
- Project Highlight
- VTA Customer Service Update
- Business Resource Program Update
- Early Construction Activities
- CWG Member Report
- Next Steps



- **Ana Vargas-Smith**, *Reclaiming Our Downtown*
- Todd Trekell, *Hunter Partners*
- David Cajigas, *Santa Clara University*
- Jack Morash, *South Bay Historic Railroad Society*
- John Urban, *Newhall Neighborhood Association*
- Jonathon Evans, *Old Quad Residents Association*
- Luke De Vogelaere, *San José Earthquakes*
- Ron Miller, *Bellarmino College Preparatory*
- *Vacant*, *Silicon Valley Central Chamber of Commerce*

# Upcoming Meetings



- San José City Council Meeting: May 23, 2023
- BART Accessibility Task Force: May 25, 2023
- BART Bicycle Advisory Task Force: June 5, 2023
- Santa Clara Council Meeting: June 6, 2023
- Upcoming CWG Dates
  - Santa Clara CWG Meeting: September 14, 2023
- VTA Board of Directors [vta.org/about/board-and-committees](https://vta.org/about/board-and-committees)
  - Board of Directors' Meeting: June 1, 2023, 5:30 PM
  - Board of Directors' Meeting: August 3, 2023, 5:30 PM
  - Board of Directors' Meeting: September 7, 2023, 5:30 PM
- Kristen will email alerts for other meetings



# Phase II Update

Bernice Alaniz, VTA

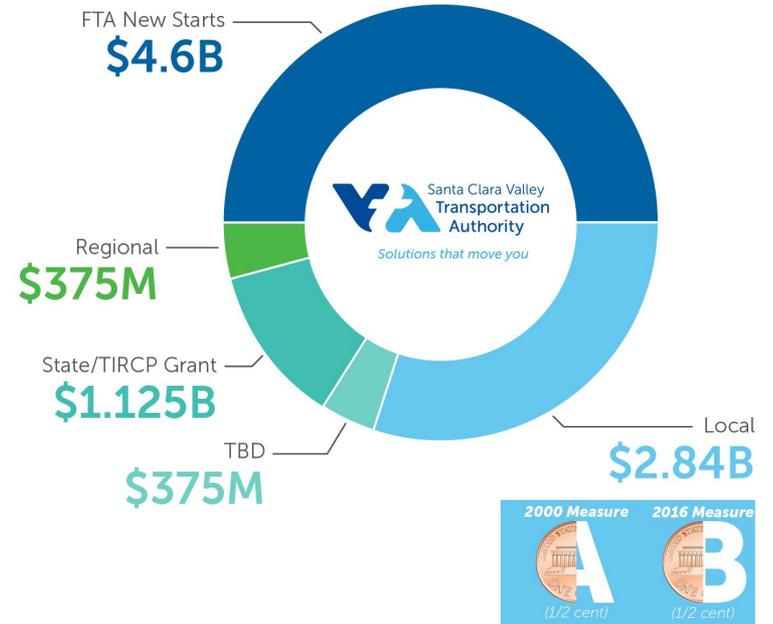
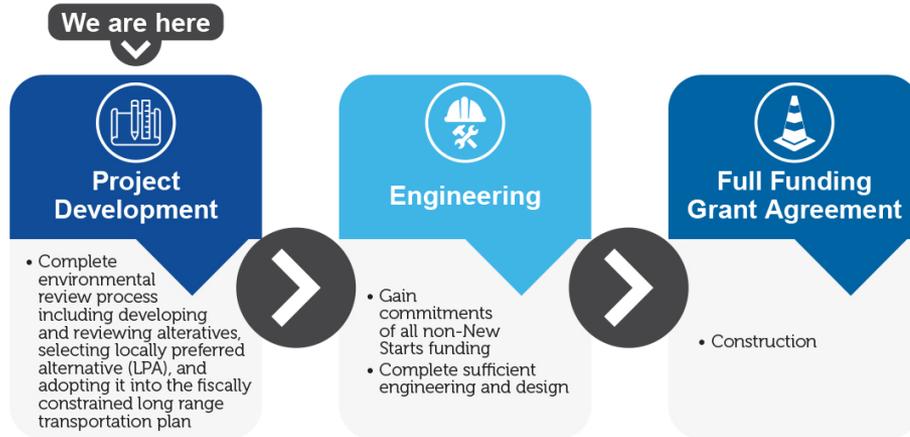
# Project Update



- Completed preliminary engineering of systems, yard, and stations; initiating interdisciplinary design review process
- Presented at MTC Programming and Allocations Committee
- Ongoing coordination with BART on design development and submittal reviews
- Presenting to the Cities of San José and Santa Clara for CTMP approval



## New Starts Process



# Contract Packages (CP)



CP1



## Systems

### Delivery Method

Design-Bid-Build (DBB)

### General Scope\*

- Traction power
- Train control
- Communications
- Emergency ventilation systems

CP2



## Tunnel & Trackwork

### Delivery Method

Progressive Design-Build (PDB)

### General Scope\*

- Tunnel & trackwork
- Mid-tunnel facilities
- 28th Street/Little Portugal support of excavation
- Utility relocations (as required)
- Stations Support of Excavation & Connecting Adits

CP3



## Newhall Yard & Santa Clara Station

### Delivery Method

Design-Bid-Build (DBB)

### General Scope\*

- Yard & Maintenance Facility
- Line & track
- Santa Clara Station
- 500 space parking garage
- Utility relocations (as required)

CP4



## Underground Stations

### Delivery Method

Design-Bid-Build (DBB)

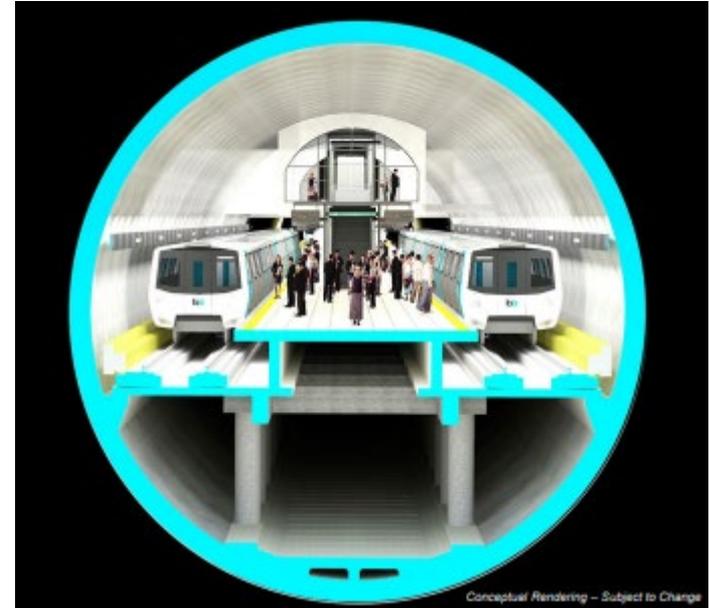
### General Scope\*

- 28th Street/Little Portugal, Downtown and Diridon stations
- 1,200 spaces parking (28th Street/Little Portugal Station)
- Utility relocations (as required)
- Streetscape
- Landscaping
- Finishes

# Tunnel and Trackwork Contract Update



- Progressive Design-Build Delivery
- Design Professional Services ongoing; preparing preliminary engineering submittal
- Kiewit Shea Taylor (KST) advancing design and cost estimating of Early Work Packages (TBM, associated works, and West Portal)
- Negotiations of various Early Work Packages underway
- Ongoing discussions currently underway with KST for CP2 estimated cost and schedule



# Procurement Look Ahead



*Construction Management Services – Q2 2023*



*Program Management Services – Q1 2024*



*Construction Procurements – 2024/2025*

# Project Look Ahead



*Based on preliminary schedule for planning purposes.*

# BSV Program News & In the News

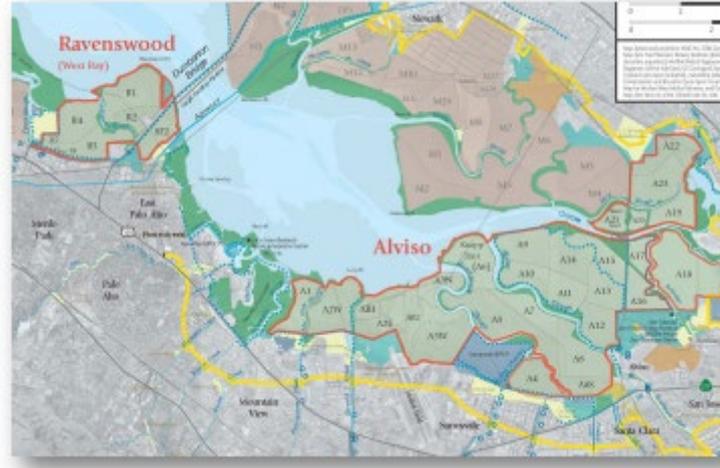


- VTA named *California 2023 Owner of the Year* by Engineering News Record
- VTA attending Metropolitan Transportation Commission Owners' Night (May 16<sup>th</sup>)
- VTA attending Carabiner Event (May 18<sup>th</sup>)
- Google Downtown West (DTW) still plans to break ground in 2023
  - Remains “committed to San José for the long term and believe in the importance of the [Downtown West] development”
  - VTA, City of San José, and Google closely collaborating on schedules of BSVII and DTW

# Beneficial Reuse of BSVII Tunnel Excavated Material at Former Salt Production Ponds

Ann Calnan, VTA

# Project Description



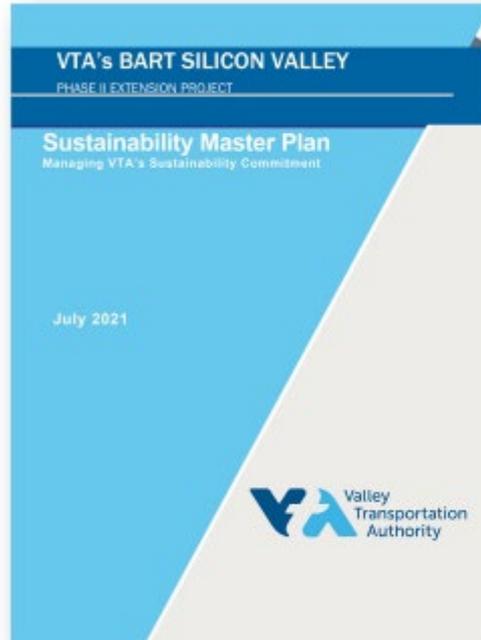
- Excavated material from the BART Silicon Valley Phase II Project tunneling operations will be placed into various Ponds in South San Francisco Bay including Ponds A4, A8 Complex (consisting of A5, A7, A8, and A8S), A12, and/or A13.
- Placement will raise pond bottoms for the purpose of accelerating tidal marsh habitat development.

# Project Benefits



- Sea level rise resilience
- Greenhouse gas emissions reductions
- Habitat creation for threatened and endangered species
- Water quality improvements
- Flood risk management
- Construction waste reuse

# Envision Framework – Platinum Certification



	CRITERIA	FOCUS AREA
	QUALITY OF LIFE	PURPOSE COMMUNITY WELLBEING
	LEADERSHIP	COLLABORATION MANAGEMENT PLANNING
	RESOURCE ALLOCATION	MATERIALS ENERGY WATER
	NATURAL WORLD	SITING LAND & WATER BIODIVERSITY
	CLIMATE & RISK	EMISSIONS RESILIENCE

# Current Project Activities



- Priority Project list for the Bay Restoration Regulatory Integration Team involved with permitting any work at the salt ponds
- \$1.5 million grant from the California Coastal Conservancy for environmental clearance and permitting
- Grant pre-application to the California Wildlife Conservation Board
- Development of the construction methodology to place the materials into the ponds
- Initiation of environmental technical analyses
- Ongoing community engagement

# Collaborative Partners



Credit: Peter Pearsall/USFWS

- US Fish and Wildlife Service
- California Coastal Conservancy
- Valley Water
- US Army Corps of Engineers
- National Marine Fisheries Service
- California Department of Fish and Wildlife
- San Francisco Regional Water Quality Control Board



# VTA Customer Service Center Update

Erica Roecks, VTA

# VTA's Downtown Customer Service Center



- VTA examined numerous available spaces in the Downtown San José area to identify a new space that would enable VTA to best serve its customers and the public.
- VTA's Downtown Customer Service Center will be relocating to 2 N. Market Street and opening in early summer 2023

# VTA's Downtown Customer Service Center



- The relocated **VTA Customer Service Center** will continue to serve the surrounding community and assist transit users with general inquiries and other important requests, including:
  - Inquiring about lost & found items
  - Picking up maps and schedules
  - Purchasing Clipper products, and
  - Applying for a Regional Transit Connection Discount Card
- VTA will also be opening a new **BSV Phase II Project Public Information Office**



# Business Resource Program

Clarence Eng, VTA

# Goals of Business Resource Program



Proactively prepare for and help, to the extent possible, to minimize construction related disturbances



Ensure business visibility and access during construction



Meet VTA's environmental commitments for BSVII

# BRP Purpose and Small Business Definition



- Purpose of the Business Resource Program (BRP) is to support small businesses during construction
- A small business is defined as:
  - A for-profit business with up to 35 employees
  - Holds active business license
  - Not a category deemed inappropriate (liquor store, adult store, etc.)



Development of the BRP has been informed by the following efforts

- **VTA's Small Business Task Force**
- **Case studies** of business assistance by others
- **Interviews** with business resource providers
- **Survey** of small businesses in project area
- **Consultation** with other transit agencies

# BRP Elements



**Shop Local Marketing**



**Signage and Wayfinding**



**Small Business Resource  
Connections and Support**



**Direct Financial Assistance**



# Shop Local Marketing (SLM)



- Branded marketing campaign to help encourage foot traffic to local businesses
- Key aspects:
  - Social media campaign and website
  - SLM signage (e.g., poster, banner)
  - Marketing assistance
  - Preferred vendor list
  - VTA pop-up events
  - Promotional

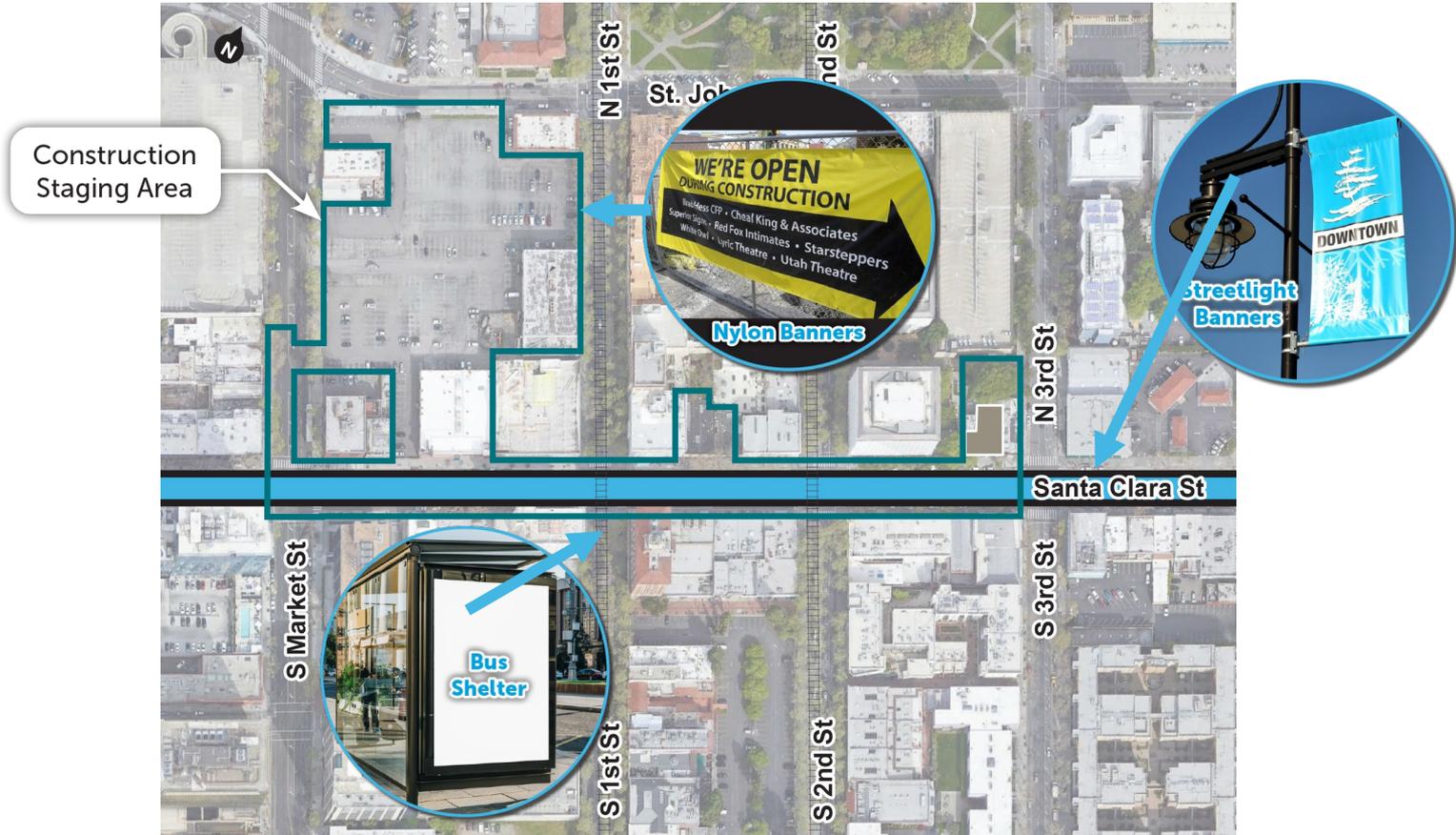
# Signage and Wayfinding



- Increase visibility and awareness that businesses are open
- Encourage foot traffic
- Signage locations identified for install by Contractor and VTA



# Signage and Wayfinding Example Locations





- Referral list of small business organizations
- VTA-sponsored open-house
- Web-based training events



Source: SCORE Business mentorship and training



# Small Business Direct Financial Assistance



- Funds will be available to support eligible small businesses that meet the criteria
- Eligibility to apply:
  - Meets definition of small business
  - Adjacent to above-ground construction and staging areas (e.g., stations, portal, ventilation facilities)
  - Experiences at least 1 month of continuous disruption to access (i.e., stationary disturbances related to project construction)

## Disruptions



CURRENT as of 05/18/23 – FOR DISCUSSION ONLY

- Tiered assistance based on at least 1 month of continuous disruption to access
  - Award amount is based on duration of disruption up to a max amount
  - Applications reviewed by VTA or third-party to verify eligibility and disruption has occurred



# BRP Business Liaison Team



- Serve as a conduit between VTA and business owners
- Regularly visit businesses and foster relationships before and during construction
- Be multilingual to communicate project information and business concerns



Source: Valley Metro South Central Community Office

# BRP Look Ahead



## *Early Construction Activities at the Stations*



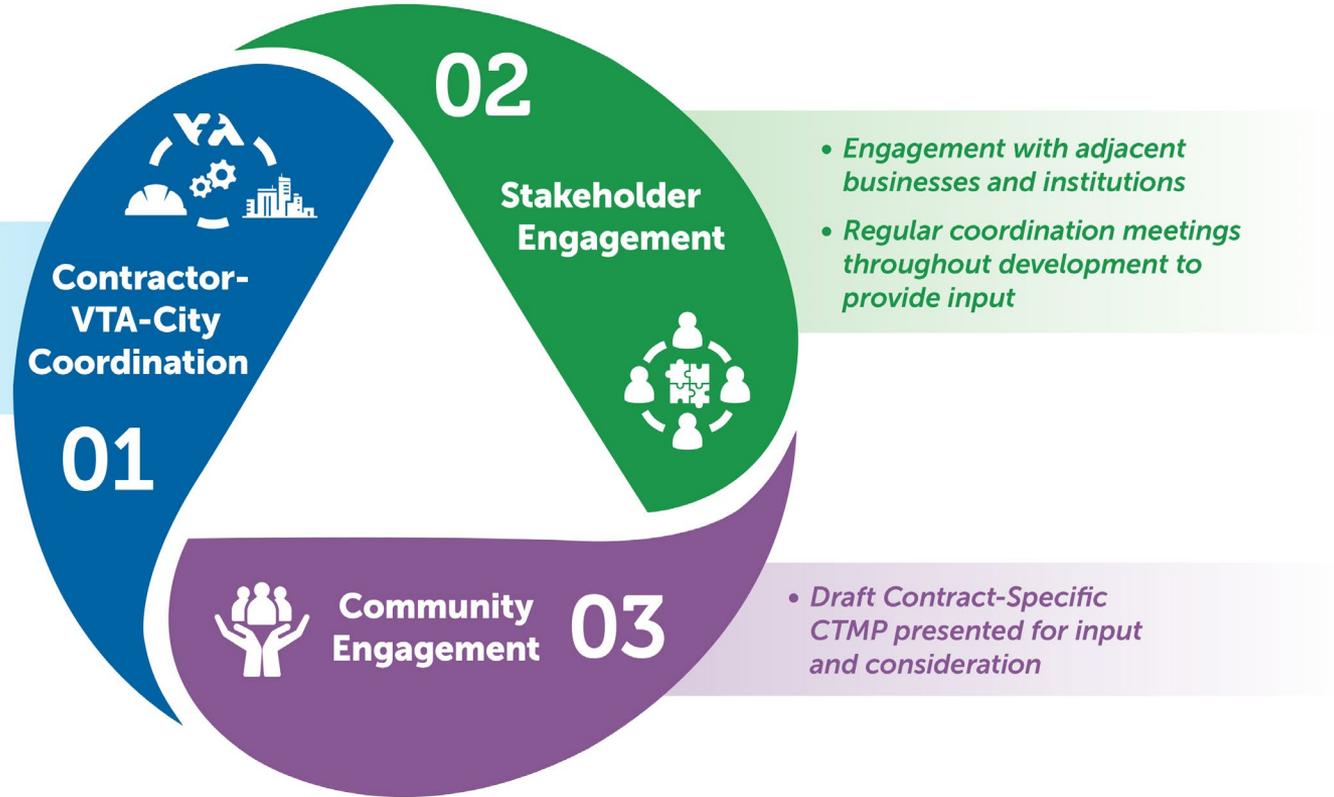
*Based on preliminary schedule for planning purposes*



# Early Construction Activities

Erica Roecks, VTA

# CP2 Specific Construction Transportation Management Plan (CTMP) Development



## Early Construction Activities Public Meetings

- 3/15 In-person Public Meeting at Santa Clara University (SCU) & 3/16 Online Public Meeting via Zoom
- Connected with the general public to share information re: early construction activities at the West Portal site
- *Event Promotion Outlets:* Physical Mailers, email invites, social media promotion, website
- Attendance:
  - **54 Public Members** attended
  - **30 Questions/Comments** were addressed
- Recorded Online Presentation/Presentation PPT available on Project Website: <https://www.vta.org/programs/community-information>
- Outcome: Generally, very positive



# Early Construction Outcome



## Prepare the site for Tunneling Operations



Construct on-site access points,  
parking, and offices



Construct & operate facilities to  
produce tunnel lining



Excavate tunnel portal and  
excavated materials bin

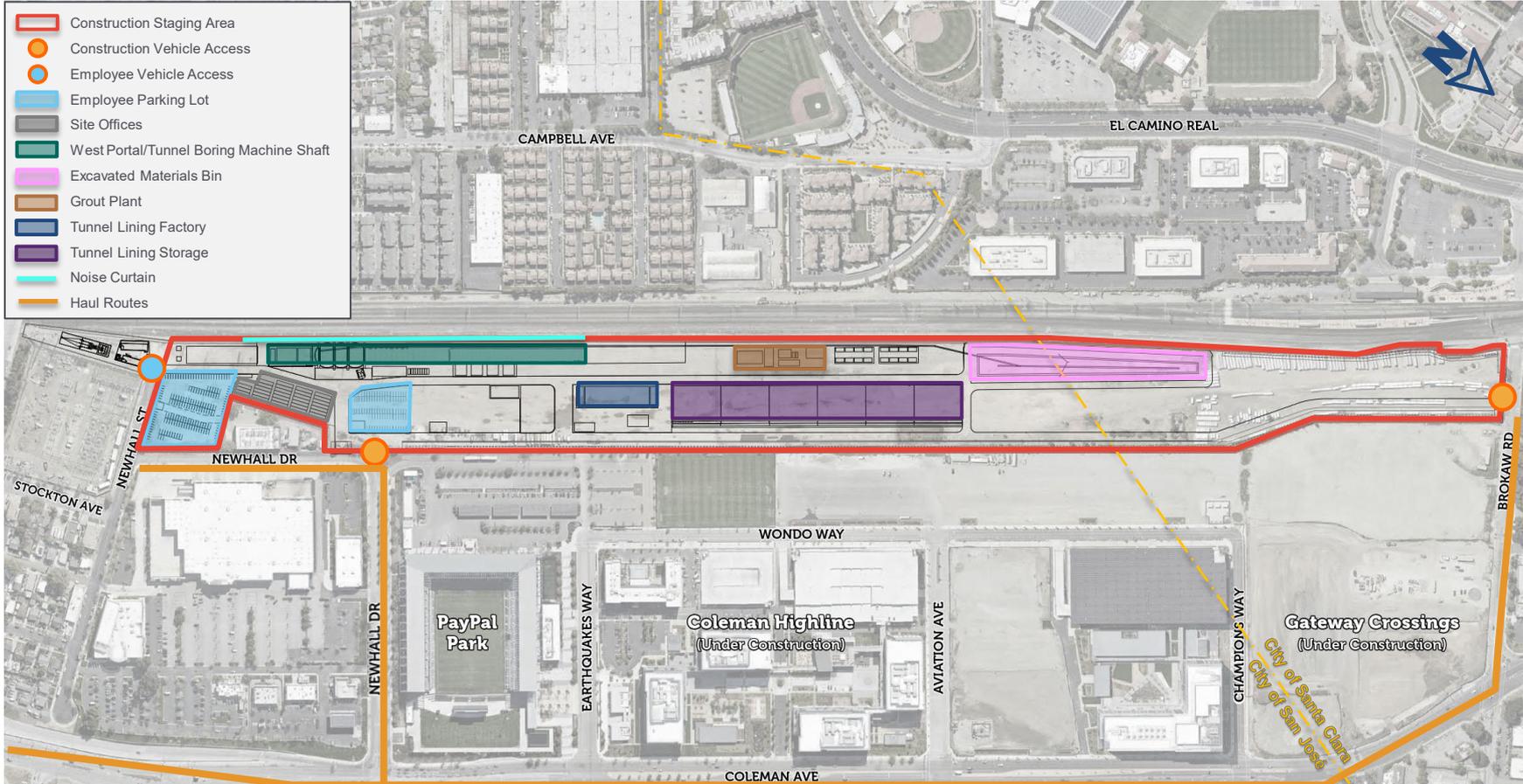


Assemble the tunnel boring  
machine (TBM)

# Elements to be Constructed During Early Construction



- Construction Staging Area
- Construction Vehicle Access
- Employee Vehicle Access
- Employee Parking Lot
- Site Offices
- West Portal/Tunnel Boring Machine Shaft
- Excavated Materials Bin
- Grout Plant
- Tunnel Lining Factory
- Tunnel Lining Storage
- Noise Curtain
- Haul Routes



# Noise and Vibration Mitigations



The Project has established federal noise & vibration limits and protocols to mitigate levels beyond those limits.

## Monitoring Systems

- Devices to track noise & vibration automatically and continuously
- Manual tests during peak noise & vibration-generating activities



## Mitigations

- Noise curtain to protect local residences from noise
- And more related to construction equipment and operations



*Example noise curtain*

# Site Access



## Construction Vehicle Access

- via Newhall Drive and Brokaw Road

## Worker Vehicle Access

- **300** parking spaces between the two lots



## Worker Facilities

- On-site offices

- Construction Vehicle Access
- Employee Vehicle Access
- Employee Parking Lot
- Site Offices
- Truck Queuing Areas



# Early Construction Activities at West Portal



- ✓ Majority of construction work will be contained to the Project site limits



*Project truck hauling*



*Construction signage*



*Day, nighttime, and Saturday work activities*

# Required Work Hours For Early Construction Activities



2023		2024			2025		
Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring
<ul style="list-style-type: none"> <li>• <b>Single Shift Work (6 AM-6 PM)</b></li> <li>• <b>Saturday Work (6 AM-6 PM)</b></li> </ul>		<ul style="list-style-type: none"> <li>• <b>Double Shift Work (6 AM-4 <u>AM</u>)</b></li> <li>• <b>Double Shift Hauling* (6 AM-4 <u>AM</u>)</b></li> <li>• <b>Saturday Work (6 AM-6 PM)</b></li> </ul>			<ul style="list-style-type: none"> <li>• <b>Double Shift Work (6 AM-4 <u>AM</u>)</b></li> <li>• <b>Single Shift Hauling (6 AM-4 PM)</b></li> <li>• <b>Saturday Work (6 AM-6 PM)</b></li> </ul>		

Standard Work Hours	Monday – Friday	Saturdays
City of San José	7 AM – 7 PM	9 AM – 5 PM
City of Santa Clara	7 AM – 6 PM	9 AM – 6 PM

*\*Double shift hauling is only to occur during critical activities and is being coordinated with local stakeholders*

# What to Expect: Tunnel Lining Factory Construction



## Tunnel Lining Factory

- Construction of factory to produce concrete tunnel lining segments

🕒 Single Shifted Work

✓ Mitigation measures will keep noise and vibration levels in compliance

## Tunnel Lining Storage

- Construction of storage area for concrete tunnel lining segments

## Construction

- Work hours to construct factory: **6 AM – 6 PM**
- Anticipated construction: **Summer 2023 for 12 months**



- Tunnel Lining Factory
- Tunnel Lining Storage



# What to Expect: Tunnel Lining Factory Operations



## Tunnel Lining Factory

- Factory for producing concrete tunnel lining segments
- Operations contained in buildings and enclosures to significantly limit noise produced
- Double shifted work to reduce duration of activities and not impact overall schedule as tunnel lining segments are crucial to tunneling operations



Double Shifted Work

✓ Mitigation measures will keep noise and vibration levels in compliance

## Tunnel Lining Storage

- Storage of concrete tunnel lining segments



## Operations

- Factory operations: **6 AM – 11 PM**
- Anticipated operations: **Fall 2024 through Major Construction**

- Tunnel Lining Factory
- Tunnel Lining Storage



# Overview of TBM Preparation



## TBM Preparation

- Excavation and lining of west portal, TBM launch shaft, and excavated material bin
- Assembly of the TBM on site
- Work hours: **Double-Shift, 6 AM – 4 AM**
- Approximate Duration: **14 Months**
- Anticipated Start: **Fall 2023**

🕒 **Double Shifted Work and Hauling**

✓ **Mitigation measures will keep noise and vibration levels in compliance**



- West Portal/Tunnel
- Boring Machine Shaft
- Noise Curtain





# TBM Prep: SOE Construction of TBM Shaft & Portal



## Support of Excavation (SOE) Construction

- SOE creates concrete slurry walls below ground which aid excavation and creates the space for TBM assembly
- *SOE work must be double shifted work and hauling* due to the complex sequences of work required to build slurry walls
- Includes: Excavation equipment, trucks hauling concrete and excavated materials, other heavy equipment



Double Shifted Work and Hauling

✓ Mitigation measures will keep noise and vibration levels in compliance

## Noise Mitigations

- Select activities completed during weekdays as feasible
- Noise curtain – works to absorb noise, not reflect it
  - Reduces noise associated with SOE work
  - Minimum height of 16 ft and 750 ft long



- West Portal/Tunnel
- Boring Machine Shaft
- Noise Curtain





# TBM Prep: Excavated Materials Bin Construction



## Excavated Materials Bin Preparation

- Construct excavated materials bin by excavating soil and installing retaining walls to create the bin
- Excavated materials bin will store soil before being hauled away
- Construction of bin is crucial to begin TBM tunneling operations
- Work hours: **Monday-Saturday, 6 AM – 6 PM**
- Anticipated Start: **Winter 2024**

🕒 Single Shifted Work

✓ Mitigation measures will keep noise and vibration levels in compliance



Excavated Materials Bin





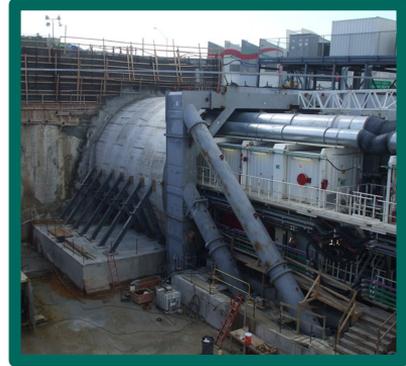
## Tunnel Boring Machine (TBM)

### Assembly & Launch Preparation

- Create Launch Structure for TBM assembly and to push off from when tunneling begins
- Assembling TBM on site to prepare for tunneling
  - TBM assembly required for start of tunneling
- Double shifts required to maintain planned schedule for integration with other contracts on project

🕒 Double Shifted Work

✓ Mitigation measures will keep noise and vibration levels in compliance



West Portal/Tunnel Boring Machine Shaft



# Reducing Dust



## Dust Controls

- Covering or moistening trucks carrying loose materials
- Removing all visible mud/dirt on adjacent public roads
- Suspending dust-intensive activities in high winds
- Installing screening around the site



Potential screening on Project fences at Santa Clara station – Subject to Change

# Reducing Artificial Light



## Strategies to Reduce Light

- ✓ All light will be screened/shielded and directed downward toward work activities
- ✓ Number of nighttime lights will be minimized to the extent construction safety allows
- ✓ Site lighting plan in development to implement strategies



# Anticipated CP2 CTMPs by Work Area



*Additional Contract Specific CTMPs will be developed and the work areas that will be covered in them will be determined as the project advances.*



# Building Monitoring



The BSVII project team must perform construction-related surveys and monitoring on historic and other select properties adjacent to construction areas as an environmental clearance requirement.

## Goals:

- Assess and develop a baseline of the current architectural and structural conditions
- Perform monitoring throughout construction
- Conduct post-construction surveys



## Activities may include:

- General assessment / As-built verification survey
- Pre-construction survey
- Air, noise, and vibration monitoring
- Property protection instrumentation & monitoring

**VTA will be reaching out to property owners as needed to gain written permission to conduct the related activities over the next two years.**



*Example of Vibration Monitor*



*Example of Noise Monitor*



*Example of Movement Monitoring*



# CWG Member Report Back

# Report Back – Santa Clara



- **Ana Vargas-Smith**, *Reclaiming Our Downtown*
- Todd Trekell, *Hunter Storm*
- David Cajigas, *Santa Clara University*
- Jack Morash, *South Bay Historic Railroad Society*
- John Urban, *Newhall Neighborhood Association*
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- Ron Miller, *Bellarmino College Preparatory*
- *Vacant*, *Silicon Valley Central Chamber of Commerce*

How have you been sharing information and updates on BSVII with your community?

What have you heard from your communities?

# Next Steps

- Next CWG meeting:  
September 14, 2023
  - Phase II Update
  - Early Construction Activities Update
  - Community Engagement Update
  - Station Area Planning