

Tri-Valley Hub Network Integration Study

LAVTA Board

Monday, June 7, 2021 Via Teams Conference Call

Agenda for Presentation



- Study Overview
- II. Tri-Valley Hub Location
- III. Transit Improvements to Address Gaps in the State Rail Network
- IV. Tri-Valley Hub Improvements

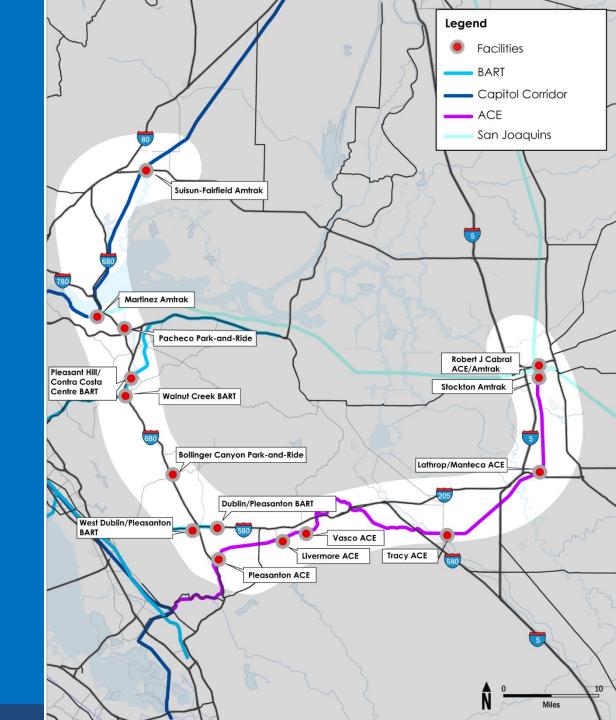
Purpose of the Study and Sponsors



- Threefold Purpose
 - 1. Address Gaps in the State Rail System with Transit Improvements on I-680 and I-580 Corridors
 - 2. Identify the Location for the Tri-Valley Hub
 - Linkage with existing and future transit and rail (BART, ACE,
 Wheels, County Connection, Valley Link, etc.)
 - Identify High-Level Improvements at the Selected Tri-Valley
 Hub to Enhance Function and Appearance
- California State Transportation Agency (CalSTA) funded the study through a Transit and Intercity Rail Capital Program (TIRCP) grant
- Caltrans participated on the TAC and provided oversight

Study Area

- Tri-Valley Hub
 - Three potential locations
- I-680 Corridor
- I-580 Corridor



Project Study Team



- LAVTA provided project management
- Technical Advisory Committee (TAC) provided guidance and comment
- Consultant team conducted the technical analysis
 - Ascendal Group
 - AECOM Technical Services

TAC Membership



- Caltrans
- BART
- Alameda CTC
- STA
- City of Pleasanton
- Solano County Transit
 CCJPA
- CCTA
- CA HSR
- CalSTA

- Innovate 680
- SJRTD
- SJCOG
- City of Dublin
- County Connection
- **MTC**
- ACE

Study Process



- 20-month timeline: October 2019 May 2021
- Four TAC meetings covering key milestones
 - Identification of a Tri-Valley Hub
 - I-680 Express Bus ridership estimate
 - Conceptual service plan for I-680 Express Bus
 - Improvements for the Tri-Valley Hub
- Four technical memoranda covering the key milestones presented to the TAC for review
- Draft and Final Reports incorporating TAC comments

TRI-VALLEY HUB

Tri-Valley Hub Identified



First Step in the Analysis – Three (3) Locations Evaluated

- Pleasanton ACE
- West Dublin/Pleasanton BART
- Dublin/Pleasanton BART selected

Tri-Valley Hub Identified (cont.)



Selection of Dublin/Pleasanton BART Based on Various Factors:

- Multiple transit operators already serve the station
 - BART, Wheels, County Connection, AC Transit, Amtrak Thruway, SJRTD, MAX, StaRT
- Future Valley Link service from North Lathrop in ~2028
- New Parking Capacity to Come Online
- Robust Potential to Improve Existing Facilities, such as:
 - Bus bays, AV shuttle deployment, expanded bike and scooter storage/parking, expansion of sidewalk covers for pedestrians, electronic wayfinding

BUS SERVICE IMPROVEMENTS

California State Rail Plan



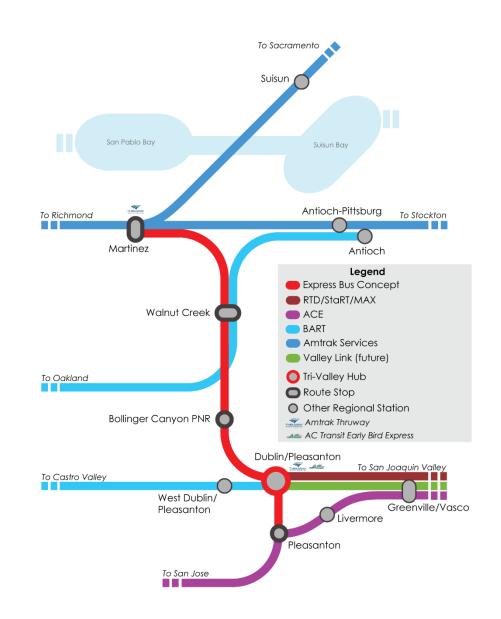
- Express Bus service along the I-680 corridor identified as a need
- Service implementation assumed in 2022
- Headways: ~hourly northbound and southbound Monday through Friday
- Connections to state rail and transit systems: Capitol Corridor, San Joaquins, ACE, BART and bus services



Northern California Service Vision, 2040

Route for I-680 Express Buses:

- Provides a one-seat ride between Martinez and the Tri-Valley Hub
- Produces strong ridership: <u>850 per</u> <u>weekday on average</u>
- Maximizes rail connections and minimizes route miles
- Lowers capital and O&M costs
- Can be extended to Suisun as SMART builds out from Marin County



Operating Plan Details



- Service to have its own branding
 - Paint scheme and logo to identify it as new service
- Five used buses at start-up
 - Transitioning to zero-emission buses by 2027
- Bollinger Canyon Park-&-Ride
 - New transit stop to serve Bishop Ranch
- Rail and Transit Connections
 - Capitol Corridor, San Joaquins at Martinez Amtrak
 - BART plus future Valley Link at Dublin/Pleasanton BART
 - ACE at Pleasanton ACE (commute period)
 - Bus services at Martinez, Walnut Creek BART, Dublin/Pleasanton BART, and Pleasanton ACE

Next Steps: Governance and Funding



- Governance: Two concepts were considered
 - A Joint Powers Authority (JPA) could be established to govern the new service, consisting of the agencies in the operational area, i.e. CCCTA, LAVTA, and STA.
 - Alternatively, a joint operation involving the three agencies could be established, along the lines of SolanoExpress.
 - ☐ TAC members showed a preference for a joint operation
- Funding: A new funding source will be needed.
 - Candidate sources: SB1, TIRCP, Sustainable Communities Grants,
 Strategic Partnership Grants, local sales tax.

I-580 Transit Improvements



- Existing Services
 - o RTD, MAX, StaRT, Amtrak Thruway
- Future Services
 - Valley Link, expansion of ACE
- Improvements
 - Future I-205 managed lane project and I-580 interchange projects present opportunities for transit service improvements

TRI-VALLEY HUB IMPROVEMENTS

Conceptual, Incremental Improvements



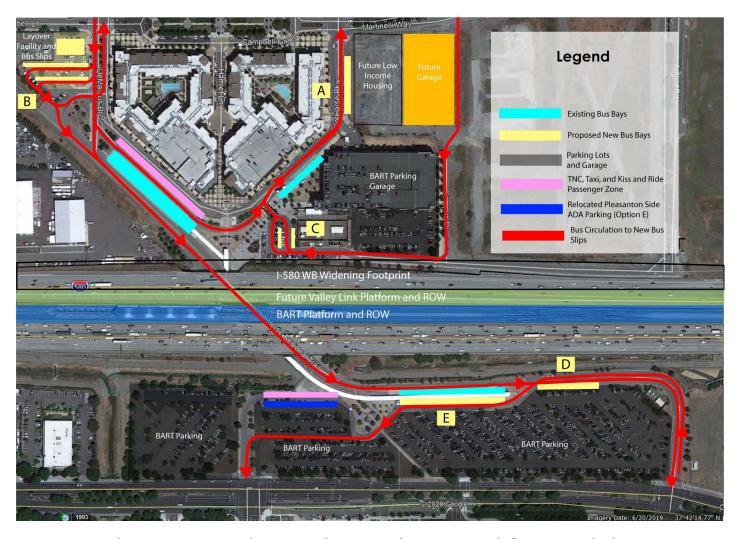
Improvements are conceptual and scalable to demand

Improvements are incremental, that is, they complement existing facilities

 Improvements must be supported by all facility users (BART and other transit operators), plus the cities of Dublin and Pleasanton

Bus Bays: Five Options Considered

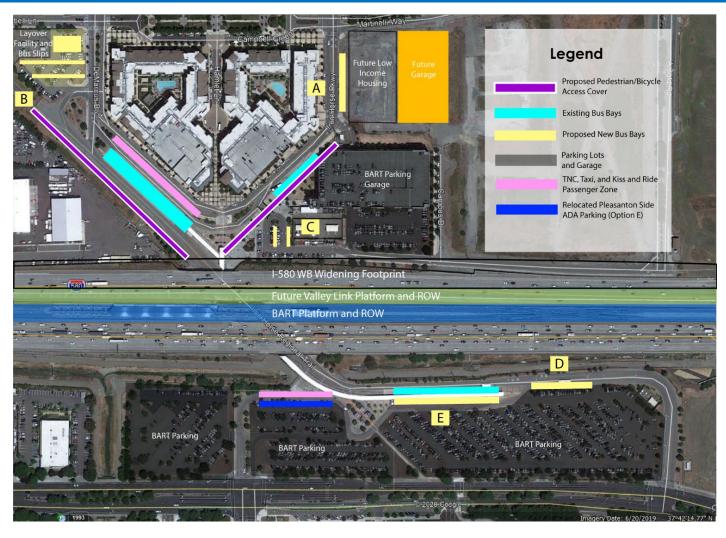




Recommendation: D and E can be implemented first with least impacts

Proposed Sidewalk Covers





Covers offer shade in summer and protection from rain in winter

Wayfinding and Bicycle Improvements



Electronic Wayfinding



Locations for Signs & Expanded Bike Storage



Circulation Improvement Concept



AV Shuttle



AV service can build off test deployment

AV Route Concept



Study Conclusions



- Move forward with implementing I-680
 Express Bus service between Martinez and the Tri-Valley Hub, i.e. Dublin/Pleasanton BART.
- Establish a governance structure.
- Secure a funding source.
- Work with cities and operators at Dublin/Pleasanton BART to build consensus on improvements enhancing the facility's ability to serve as a successful Tri-Valley Hub.

QUESTIONS AND ANSWERS

THANK YOU!

Tri-Valley Hub Improvement Costs in 2020 Dollars



Additional Bus Bays

Alternative A: \$598,000

Alternative B: \$1,930,000

Alternative C: \$1,132,000

Alternative D: \$818,000

Alternative E: \$1,421,000

Sidewalk Covers: \$458,000

AV Shuttles

o Capital costs: \$2.7 million

o O&M costs: \$4.4 million

Wayfinding: \$53,000

Additional Bike & Scooter Lockers: \$27,000

Express Bus Implementation Costs and Financials in 2022 Dollars



- Five used buses at start-up: \$2.4 million
 - Transitioning to zero-emission buses by 2027
- Bollinger Canyon Park-&-Ride: \$478,000
 - New transit stop to serve Bishop Ranch
- Financials in 2022

Revenue: \$1.2 million

O&M costs: \$1.6 million

Subsidy: \$0.4 million