

Dumbarton Transportation Corridor Study

TA Board of Directors
October 6, 2016
Agenda Item 12a

Dumbarton Corridor



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Transportation Study

samTrans

- Initiated due to recent growth
- Study partners:
 - SMCTA
 - ACTC
 - AC Transit
 - Facebook
- Kicked off in March – 15-month schedule

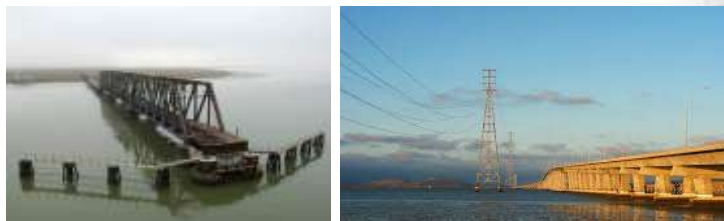


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Scope of Work

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- Study mobility improvements on highway bridge, approach arterials and rail bridge
- Focus on short-term (2020) and long-term (2030) improvements and phasing



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Outreach

The logo for samTrans, featuring the text "samTrans" in a sans-serif font with a red and blue horizontal bar below it.

- **Outreach at major milestones:**
 - **May 2016:** Existing conditions, goals and evaluation metrics, initial alternatives
 - **September 2016:** Initial screening, alternatives carried forward
 - **April 2017:** Evaluation of alternatives carried forward, funding plan



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Study Goals

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- **Enhance mobility**
- **Identify cost effective improvements with return on investment**
- **Minimize environmental impacts, financial risk and maximize safety**
- **Ensure local communities are protected from adverse impacts**

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Initial Highway Bridge Alternatives



- Express bus enhancements/expansion
- Variety of highway bridge lane configurations, including managed lanes:

- Carpool lanes
- Toll lanes
- Bus-only lanes



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Initial Approach Alternatives



- Improvements to:
 - Speed tolling
 - Improve carpool connections
 - Manage and/or increase park-and-ride capacity
 - Provide additional capacity/improve flow on key arterials and at intersections
 - Improve connections to US 101

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Initial Rail Bridge Alternatives

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- **Transit modes:**
 - Bus Rapid Transit (BRT)
 - Commuter Rail
 - Bike/ped
 - Light Rail Transit (LRT)
 - Bay Area Rapid Transit (BART)
 - Personal and Group Rapid Transit
 - People Mover
 - Hyperloop
 - Tunnel (BRT, LRT, Commuter Rail)
 - Ferry
 - Gondola

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Initial Screening Process

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- **Evaluated:**
 - Highway configurations for highway bridge
 - Approach improvements per potential benefit to transit
 - Transit modes for rail bridge
- **Carried forward all short-term options**

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Highway Bridge Alternatives Carried Forward

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- Short-term: Express bus enhancements/expansion
- Long-term: 3 managed lane options

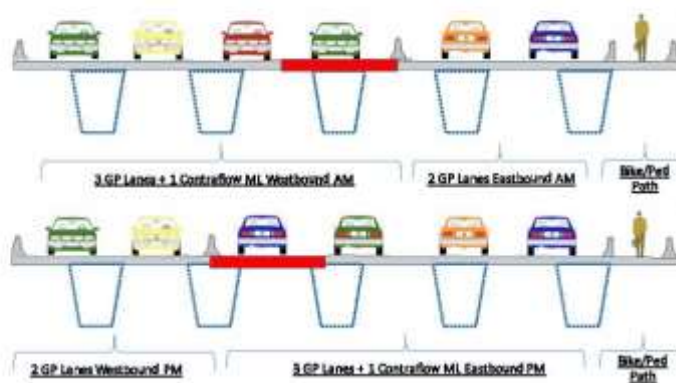


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Highway Bridge Alternatives Carried Forward

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- Contraflow managed lane in median with movable barrier

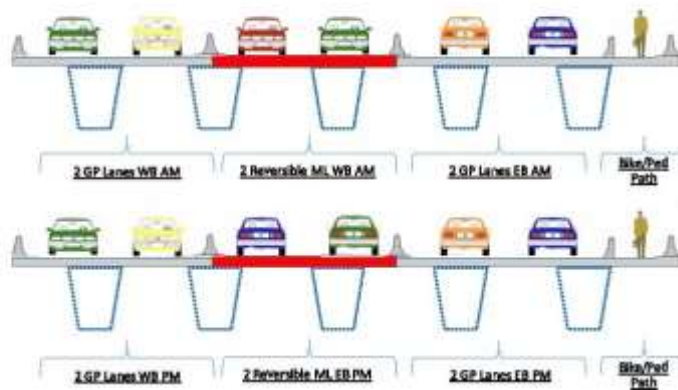


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Highway Bridge Alternatives Carried Forward



- Reversible managed lanes in median with fixed barriers

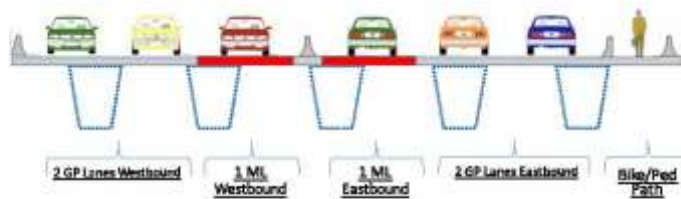


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Highway Bridge Alternatives Carried Forward



- Managed lane in each direction



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Approach Package

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- **Short-term:**
 - Bike/ped approach improvements
 - FasTrak lane extensions and operational improvements
 - Park-and-ride management/expansion
 - Operational improvements such as transit signal priority and queue jump lanes on key roadways

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Approach Package

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- **Long-term:**
 - All electronic tolling
 - Carpool/toll direct access ramps
 - Dedicated lanes for buses
 - Grade separations (improve flow at key intersections)
 - Managed lanes connections

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Transit Alternatives Carried Forward



- **Short-term:**
 - Bike/ped on peninsula
- **Long-term:**
 - BRT from Union City
BART to Redwood City
Caltrain
 - Commuter Rail from
Union City BART to
Redwood City



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Next Steps



- **October – December: Further study alternatives carried forward**
 - Conceptual engineering
 - Ridership modeling
 - Financial analysis including public-private partnerships
- **January: Comparative alternatives analysis**
- **February: Recommend phasing and financial plan**

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Comments / Questions

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