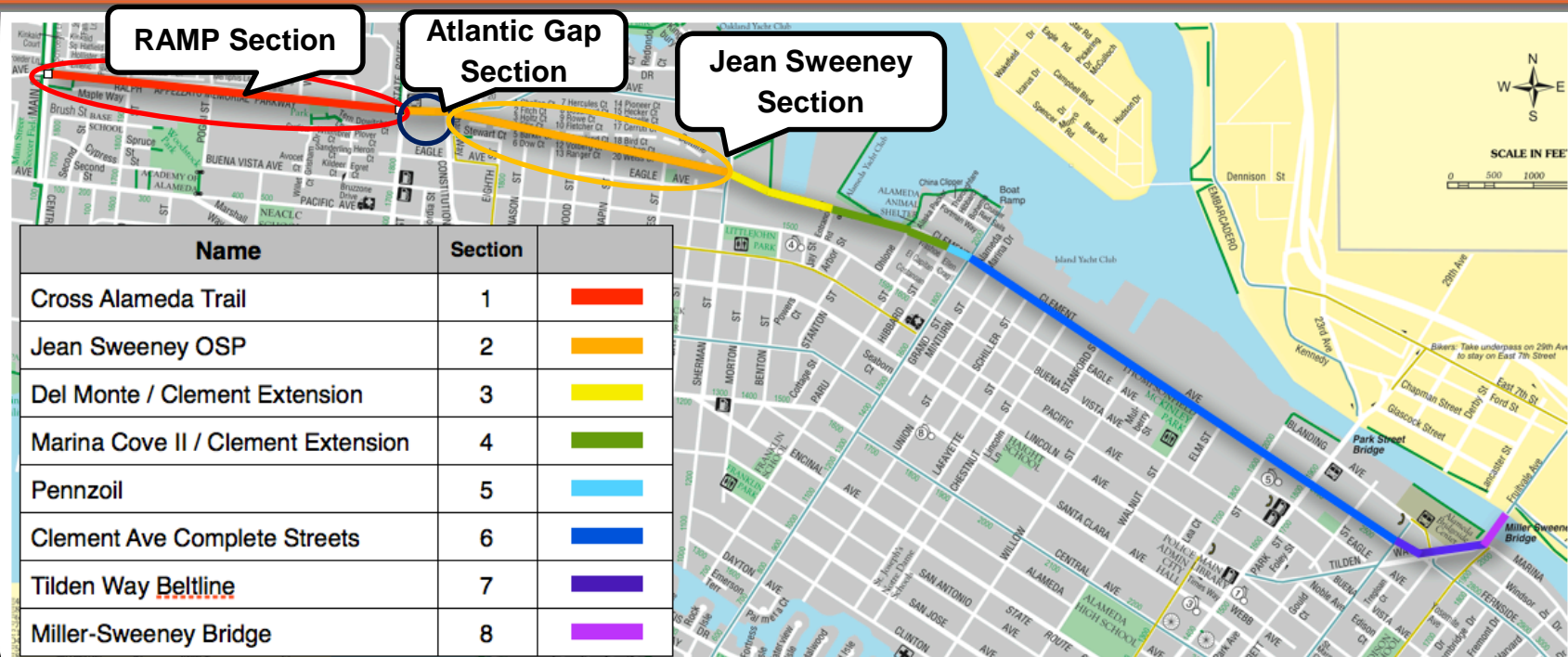


# *Approve Cross Alameda Trail: Atlantic Gap Design Concept*

Transportation Commission, Item 5A  
March 22, 2017



# Cross Alameda Trail: Big Picture



# Recommended Concept

- On-street segment southside of Atlantic, connecting to off-street CAT segments, between two busy intersections
- Bicycle Corridor
  - Two-way, 10' wide protected bicycle lanes
  - Elevated at sidewalk-level on west end
  - Street-level on east end



# Recommended Concept (cont.)

- Pedestrian Corridor
  - Continuous 6' to 7.9' sidewalk
  - Large pedestrian refuge for northbound peds
  - ADA accessible
- Bus Stop (Eastbound)
  - Upgraded, 8' wide concrete bus pad, per AC Transit requirements
  - Level crossing from sidewalk to bus stop, across protected bike lanes



# Recommended Concept (cont.)

- Intersection Crossings & Safety
  - Protected intersections: Raised corner safety islands with visible curb aprons to slow turning cars
  - Protected left turn signal phase from Atlantic to Constitution
  - Warning signage
  - Separated bicycle and pedestrian crossings with high visibility paint
  - Bicyclists at sidewalk-level through driveway



# Recommended Concept (cont.)

- Auto Travel Lanes
  - Two eastbound lanes remain
  - One eastbound lane removed for half block, from driveway to Constitution, to add protected bike lanes
  - No changes to number of westbound lanes



# Recommended Concept (cont.)

- Midblock Crossing
  - Considered and evaluated, but not recommended
  - Does not meet key guidance criteria: pedestrian volume, collision history and distance to nearest signalized crossing



# Commission Input

- Request for more extensive traffic analysis and data
  - Multi-modal Level of Service analysis performed
  - Results: Improvements for bicycling and walking
  - Results for Autos:
    - Intersection delays at Constitution/Atlantic of 1 to 7.5 seconds. No changes at Webster/Atlantic.
    - Some reductions in auto speeds (eastbound only)
    - Increased vehicle queuing (eastbound only)





# Commission Input (cont.)

- Address right-turning vehicle/bike conflicts at Atlantic/Constitution
  - Elements included in design:
    - Protected left turn phase
    - Corner safety island to slow vehicles
    - Waiting bicyclists stop ahead of the auto stop line to increase visibility
    - Signage warning turning vehicles to watch for bicyclists and pedestrians



# Commission Input (cont.)

- Easement Area considered?
  - Easement includes major utilities which are expensive to relocate
  - Alignment of protected bike lane would not work well if use easement
  - Concept includes small amount of easement near the Webster corner



# Commission Input (cont.)

- Work with AC Transit on bus stop
  - Extensive consultation with AC Transit on needs
  - Eastbound bus stop retained and enhanced
- Midblock Crossing design?
  - Design Option 2 illustrates project with midblock crossing



# Commission Input (cont.)

- Barrier design type for protected bike lane?
  - Closely spaced 3-foot high lane delineators with hatched striping
- Lack of shoulder with one travel lane?
  - Two lanes in each direction with new concept
- Emergency Services?
  - Consulted; minor changes incorporated



# Recommendation

- Approve Cross Alameda Trail Atlantic Gap Design Concept



# Questions

