

Better Market Street Project

Engineering, Maintenance and Safety Committee Meeting 8/23/17





EAHA

Nork









Market Street















San Francisco Water Power Sewer



Market Street

City's busiest transit corridor	Over 100 Muni buses/hour 14 surface transit lines + BART+ Muni Metro 464K daily transit boardings 67 Muni-Auto collisions (2012-2013)	
City's busiest	85K pedestrians per weekend day (4 th to 5 th)	
pedestrian street	53 Bike/Ped-Auto collisions (2012-13)	
City's busiest	Bicycle numbers have doubled since 2006	
bicycling	Bicycle counter data showing growth – over 3,500	
thoroughfare	riders on a good day	
And we all want a grand boulevard The City's premier civic and commercial corridor		

Market Street & Transit Modes

Central role in connecting existing and future transit modes and projected growth in employment and housing.



Project Goals: To Improve...

• Safety

- Private vehicle restrictions (buses, taxis, commercial vehicles, paratransit, and emergency vehicles exempt)
- Better, clearer, more separated facilities
- Commercial loading relocated onto other streets to reduce friction

• Walking and Accessibility

- Wider transit islands
- Open new crosswalks
- Realign skewed crosswalks
- Cycling
 - A continuous protected cycletrack
 - Two-stage left turn measures

• Transit

- A BRT-like rapid service in the center track lane
- New streetcar turnback loop
- Travel time savings of 15-25%
- Infrastructure (old pavement, rusting signals, etc)
- Public Space and Street Life



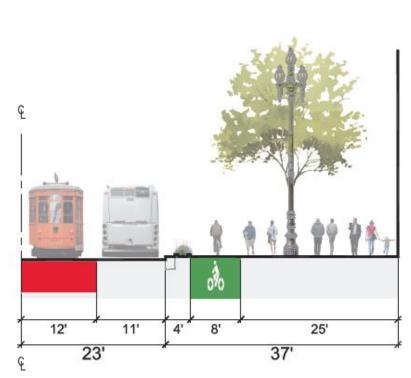


Current Status of the Project

- Alternatives Analysis
- Initial Study
 - define the alternatives for further analysis
- Conceptual Engineering and Transportation Impact Study
- EIR
- Final Design
- Construction



PREFERRED DESIGN





SECTION

PLAN















Street level view of sidewalk today















San Francisco Vater Power Sewer



Proposed street level view of sidewalk















San Francisco Vater Power Sewer



1 TRANSIT DESIGN 2 BICYCLE AND PEDESTRIAN DESIGN 3 VEHICULAR RESTRICTIONS 4 LOADING

Market Transit Future: Reduce delays, 22% more capacity

Rapid Service Transit Stop Optimization Transit Only Lanes F Turnback Loop Auto restrictions Separate bicycle facility

Anticipated travel time savings: 15-20% Local 20-25% Rapid

















Rapid Service & Consolidated Stops

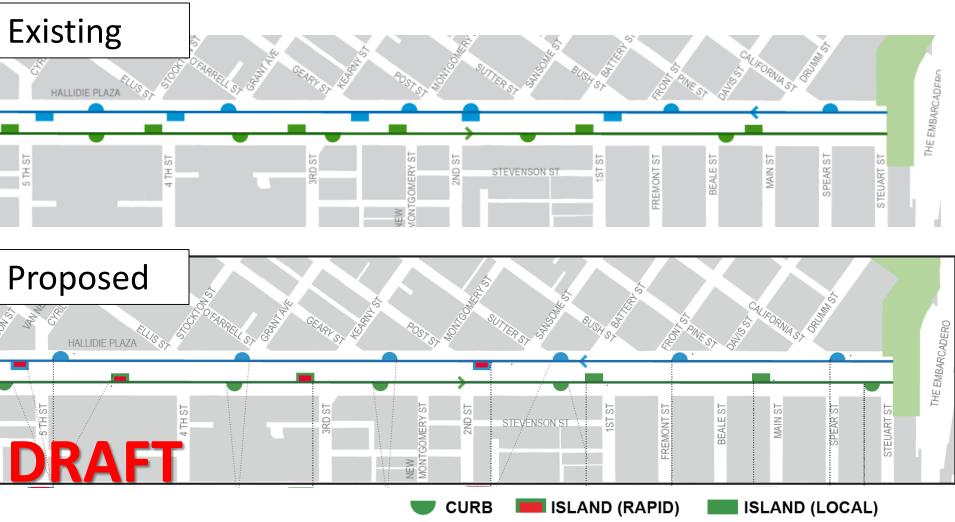
- Center lane Rapid stops at BART/Muni stations near station elevators (5R, 7R, 9R, 38R, F)
 - 50% decrease in stops on new Rapid Service
- Moderate increase in space between local stop

Existing	<u>24 stops</u> 950' spacing	
Proposed	Local: <u>21 stops</u> 1079' spacing	Rapid: <u>13 stops</u> 1905' spacing

Transit Stop Spacing Octavia to 5th Street

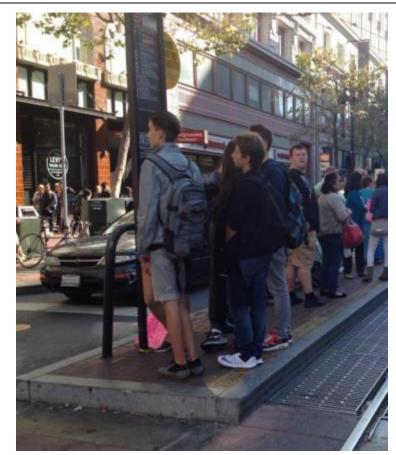


Transit Stop Spacing 5th Street to Embarcadero



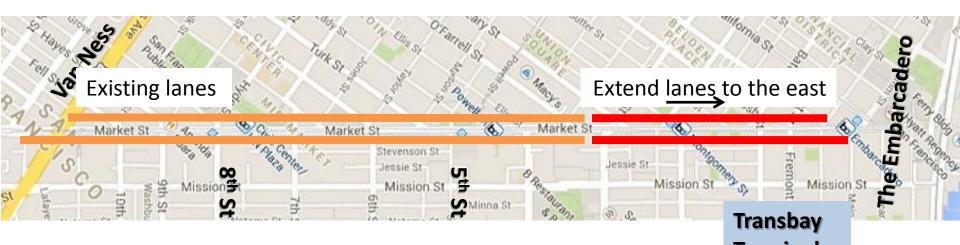
Doubling Transit Stop Capacity

- Longer islands for more buses
 - Existing islands cannot load two 60' buses simultaneously.
 - Inbound stops would fit up to 3 articulated buses simultaneously.
 Outbound designed for 1-2 buses.
- Wider stops = better experience
 - Existing stops as narrow as 5'. New 8' wide islands to provide ADA wheelchair access. Currently only half are ADA accessible.



Existing boarding area Average 570 sq ft Future boarding area Average 1130 sq ft

Extend & Colorize Transit Only Lanes

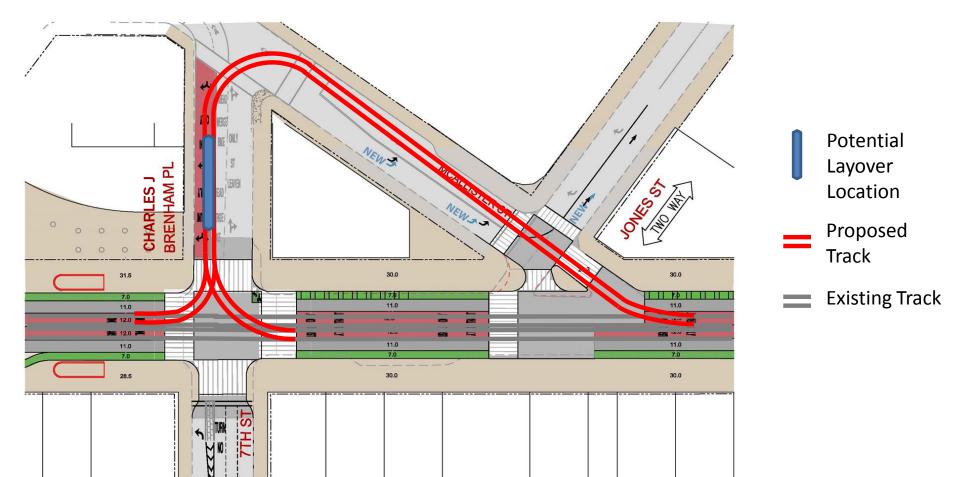


- Adding red treatment improves transit only lane visibility and selfenforcement
- Extending the transit only lanes will prioritize the Rapid service and improve safety through reduced lane changes
- Prohibiting taxis from center lane will prevent island blockages



New F Turn-back Loop & Layover

Will better match F line service to higher demand between Powell and Fisherman's Wharf



Cycle track Improves Safety & Operations



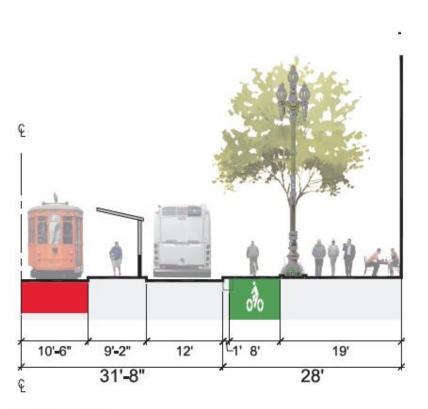


Market Street Today



Cycle Track & Transit Island: Church/Duboce

Sidewalk Level Cycle Track—Center **Boarding Island**





SECTION









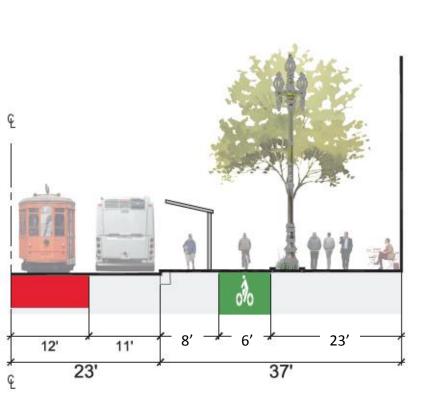




San Francisco ower Sewer



Sidewalk Level Cycle Track—Curbside Boarding Island





Section









PLAN





San Francisco Water Power Sewer Services of the Sen Function Public Utilizes Commission



1 TRANSIT DESIGN 2 BICYCLE AND PEDESTRIAN DESIGN 3 VEHICULAR RESTRICTIONS 4 LOADING

Pedestrian and Cycling Improvements

- Wider sidewalks and pedestrian bulbouts
- Jughandle / bike route connections
- Realigned crosswalks/opening closed crosswalks
- New pavers and site furnishings



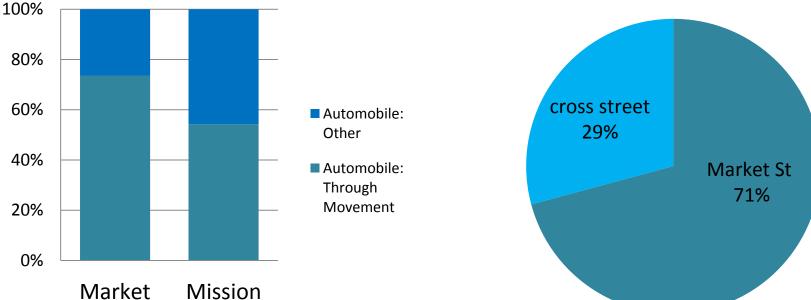
1 TRANSIT DESIGN 2 BICYCLE AND PEDESTRIAN DESIGN 3 VEHICULAR RESTRICTIONS 4 LOADING

Analysis of Collision Trends

- Market has collision rate >4 times higher than Mission Street
- More collisions caused by cars going straight

Auto vs. Bike/Ped Collisions





Proposed Western Vehicle Restrictions

(Private vehicles only; buses, taxis, bicycles, trucks, paratransit exempt)



Proposed Eastern Vehicle Restrictions

(Private vehicles only; buses, taxis, bicycles, trucks, paratransit exempt)



1 TRANSIT DESIGN 2 BICYCLE AND PEDESTRIAN DESIGN 3 VEHICULAR RESTRICTIONS 4 LOADING

Refining Loading Proposals

- Work with new buildings being developed to avoid need to load on Market
- Work with property owners/businesses to shift loading activities to alleys or cross streets
- Identify locations where none of the above maintain access and work with them on a case-by-case basis, perhaps:
 - Time-of-day restrictions (promoting nighttime deliveries)
 - Retaining key loading bays
 - Promoting last mile delivery methods



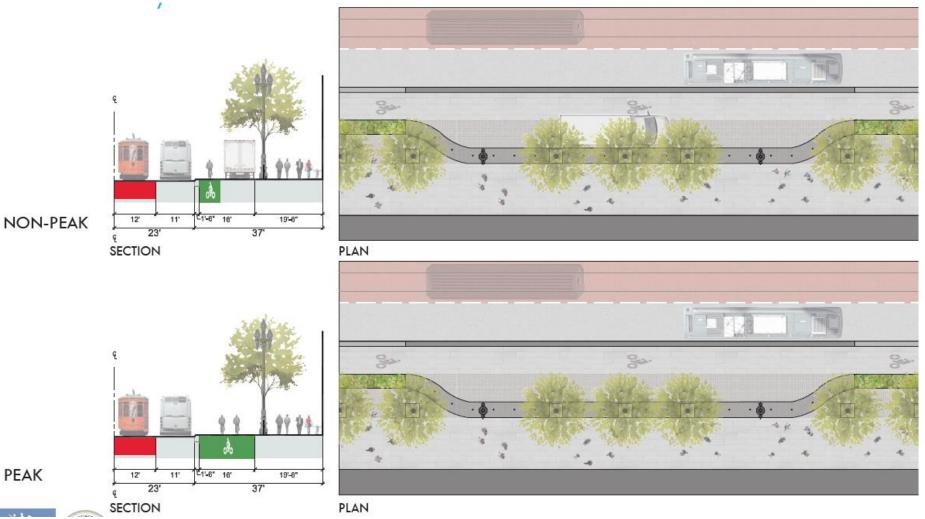








Sidewalk Level Cycle Track—Flex zone design



ENHA

PUBLIC

WORKS



Plan Francisco







Isometric view

EXISTING CONDITION



35' WIDE SIDEWALK // 15' PEDESTRIAN ZONE // 10'-18' FURNISHING ZONE // SHARED BIKE LANE





WORKS











Isometric view



37' WIDE SIDEWALK // 15' PEDESTRIAN ZONE // 8'-10' FURNISHING ZONE // PROTECTED BIKE LANE



PUBL

WORKS





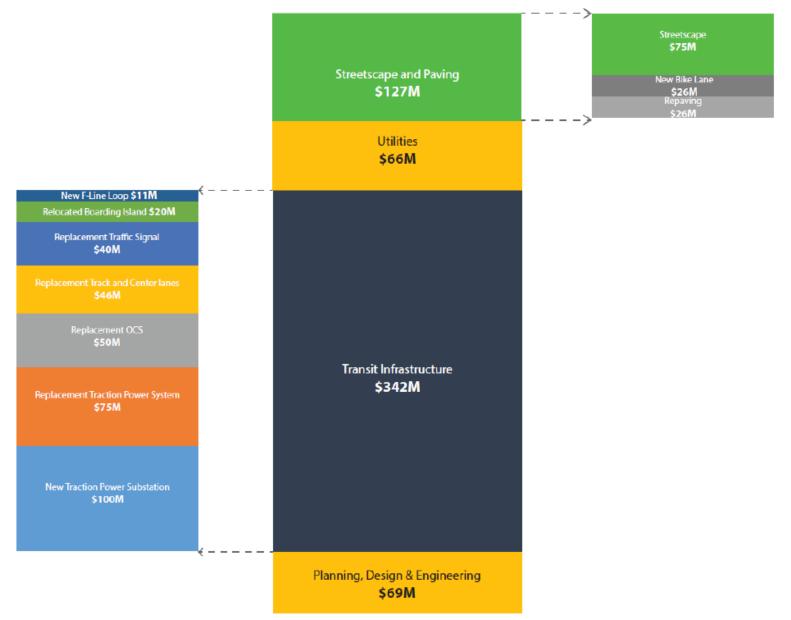








Better Market Street is a \$604 million project



\$604M Cost Estimate

Outreach

This project has been in the works for the past several years and has had over a hundred community meetings and presentations to interested parties.

BMS Citizen Advisory Committee meetings since 2011.

As we continue our design, the project team will perform additional outreach to the community, residents, stakeholders, community organizations, advocacy groups, and local businesses.

Your input is needed to finalize paving materials for sidewalk, loading locations, and other streetscape features.

















Timeline & Approvals

Date	What
May 2017	Sidewalk level bicycle lane design presented to Directors' working group for approval
August 2017	Identify Phase 1 segment for construction
September 2017	Develop schedule for delivery of Phase 1 construction package
Winter 2019	Complete Design
Winter 2019	DEIR release for CEQA/NEPA
Summer 2019	Complete CEQA/NEPA
Summer/Fall: 2019	SF Planning Commission approval of FEIR
Fall 2019	SFMTA Board approval
Fall 2019	BOS legislation for sidewalks
2019	Construction of 1 st segment















Thank You!

BETTER



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