

Improving safety
and walking
conditions in
San Francisco



Prioritizing Walking Improvements

PSAC | October 11, 2011



San Francisco
Department of Public Health

SAN FRANCISCO
PLANNING DEPARTMENT



SFMTA | Municipal Transportation Agency

Contents

1. Update on DRAFT concepts of Case Studies
2. DRAFT Preliminary capital improvements list for highest severe/fatal injury areas

Project Purpose

The project's goal is to improve walking conditions in San Francisco, and encourage walking as a way of getting around the city.

The WalkFirst project will **identify** where people walk, and **prioritize** how to make safety improvements to best serve pedestrians. This is important in order to best make use of limited funding.





Project Deliverables

- Map of key walking streets in San Francisco
- Method for prioritizing the most important safety improvements
- Preliminary list of pedestrian safety upgrades
- Draft policies to guide City decisions about pedestrian safety and walking conditions
- Examples of street designs to improve the walking environment

Prioritizing Locations for Walking Improvements

Prioritizing locations for walking improvements



Category	Pedestrian Activity	Pedestrian Safety	Street and Sidewalk Characteristics	Project Readiness
Goal	Identify places where people walk	Identify most important locations for safety improvements	Identify street and sidewalk infrastructure/conditions	Identify opportunities to fund and construct pedestrian improvements
Product	Map of key walking streets in SF	Map of identified areas of improvement for pedestrian safety	Preliminary project list	Preliminary project list

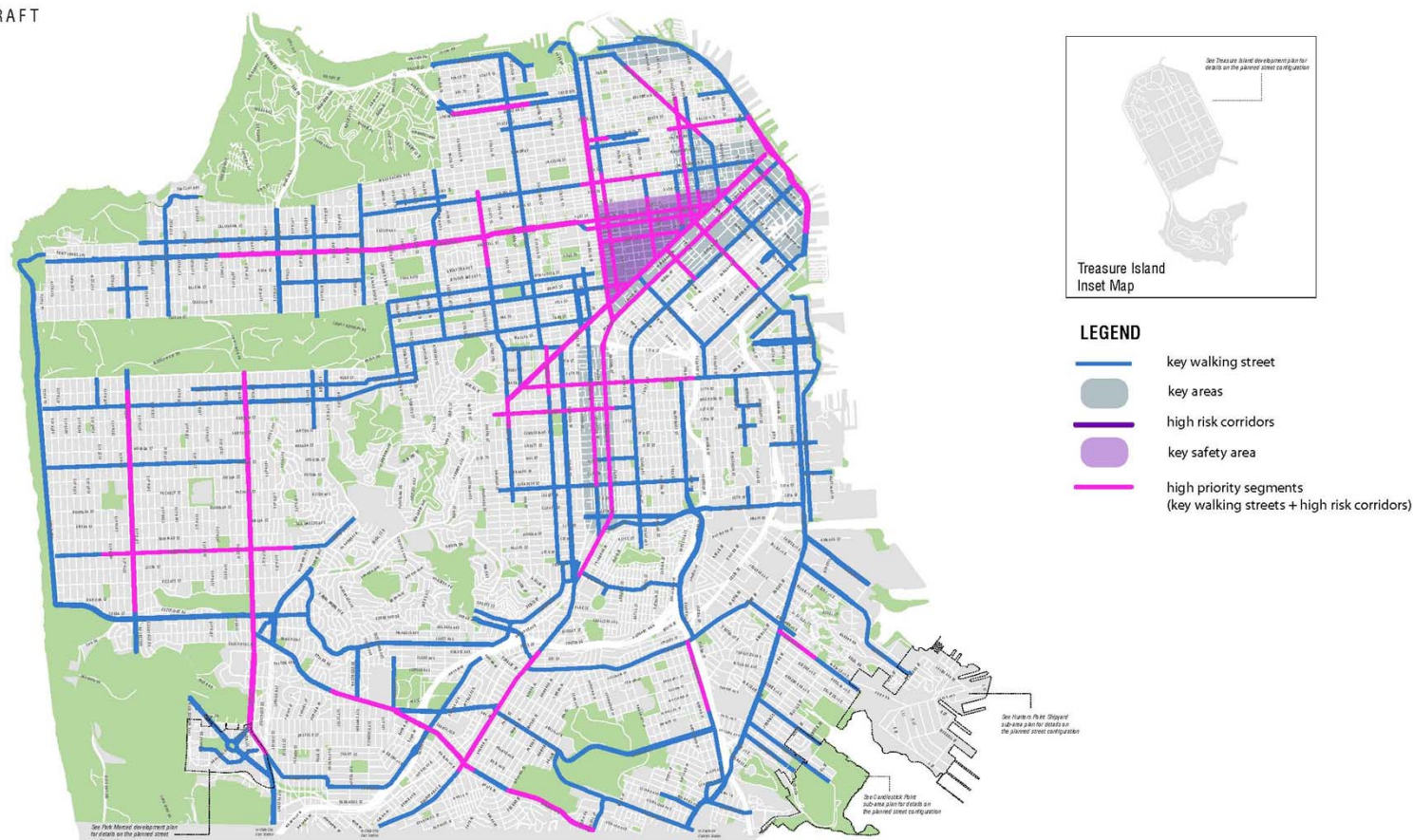
Prioritizing locations for walking improvements

Ped Safety: # of collisions and collision rate/crossing

Ped Activity: Key walking streets and areas	Ped Safety: # of collisions and collision rate/crossing		
	<i>High:</i> ranks in top 1/3 of ped safety needs	<i>Medium:</i> ranks in next 1/3	<i>Low:</i> ranks in last 1/3
<i>High:</i> identified as key walking street or area (primary)	HIGHEST	High	Medium
<i>Medium:</i> identified as key walking street or area (secondary)	High	Medium	Low
<i>Low:</i> not identified	High	Low	Low

Overlay of Key Walking Streets, High Risk Corridors, and High Priority Streets

DRAFT



SAN FRANCISCO

WalkFirst

Source: San Francisco Planning Department, San Francisco Department of Public Health, San Francisco Municipal Transportation Agency



WALKFIRST

Case Studies

Case Studies

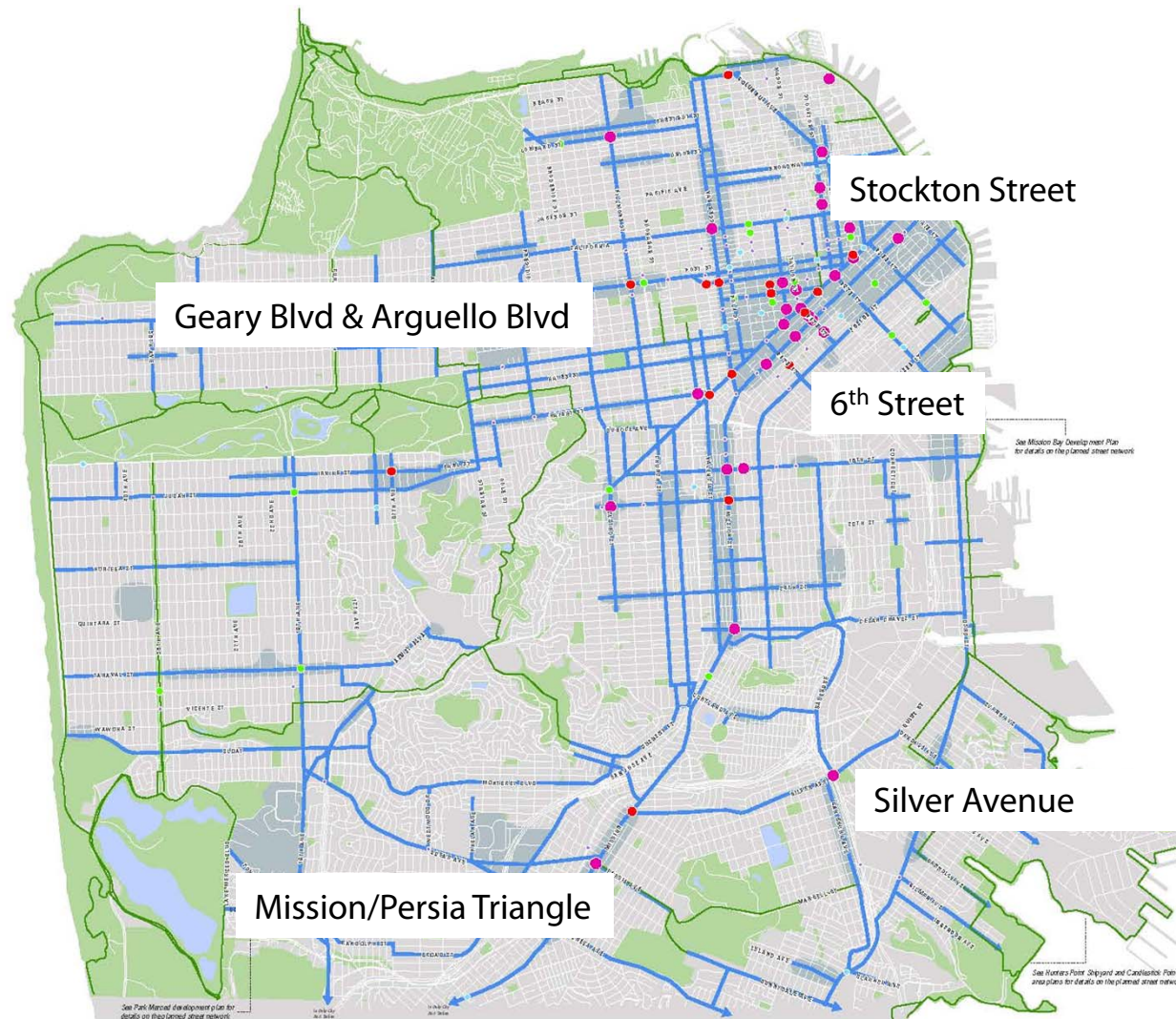
- Illustrate how the prioritization recommendations can be translated into physical improvements
- Locations selected with significant pedestrian safety problems and high levels of pedestrian activity
- Illustrate typical conditions
- Concepts could be broadly applied to similar street conditions across the city
- Build on earlier community and agency planning efforts

WalkFirst Case Study: Locations

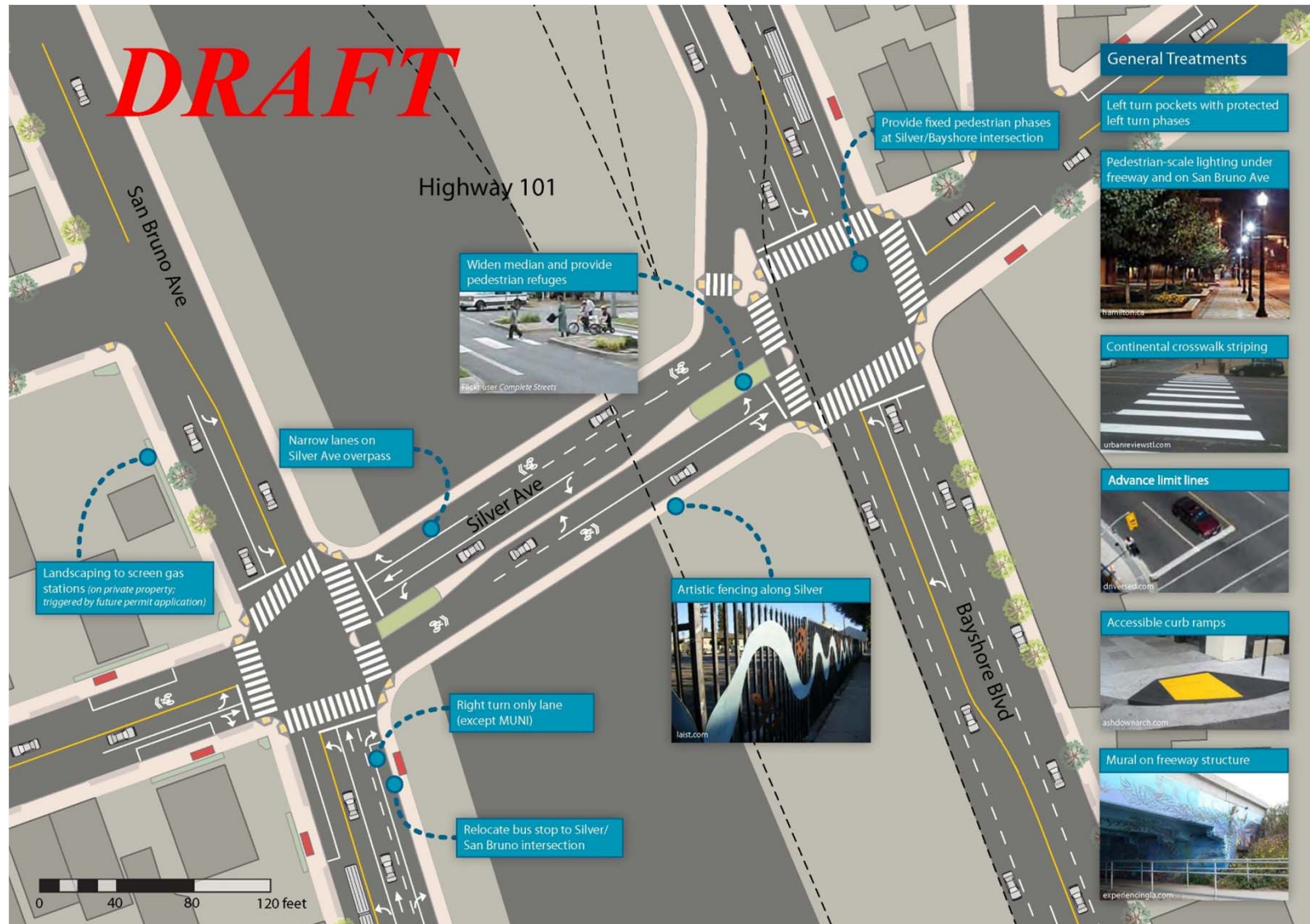
- 6th Street (Market Street to Howard Street)
- Geary Boulevard (Arguello Boulevard to Palm Avenue)
- Mission/Persia/Ocean Triangle
- Silver Avenue (San Bruno Avenue to Bayshore Boulevard)
- Stockton Street (Sacramento Street to Washington Street)



Case Studies



Case Study: Silver Avenue (San Bruno Avenue to Bayshore)

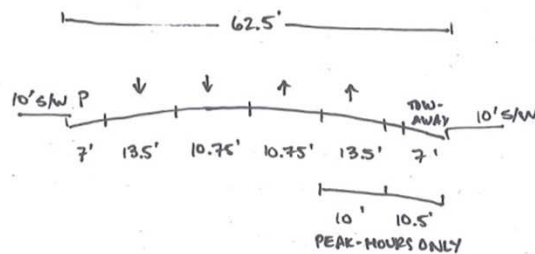
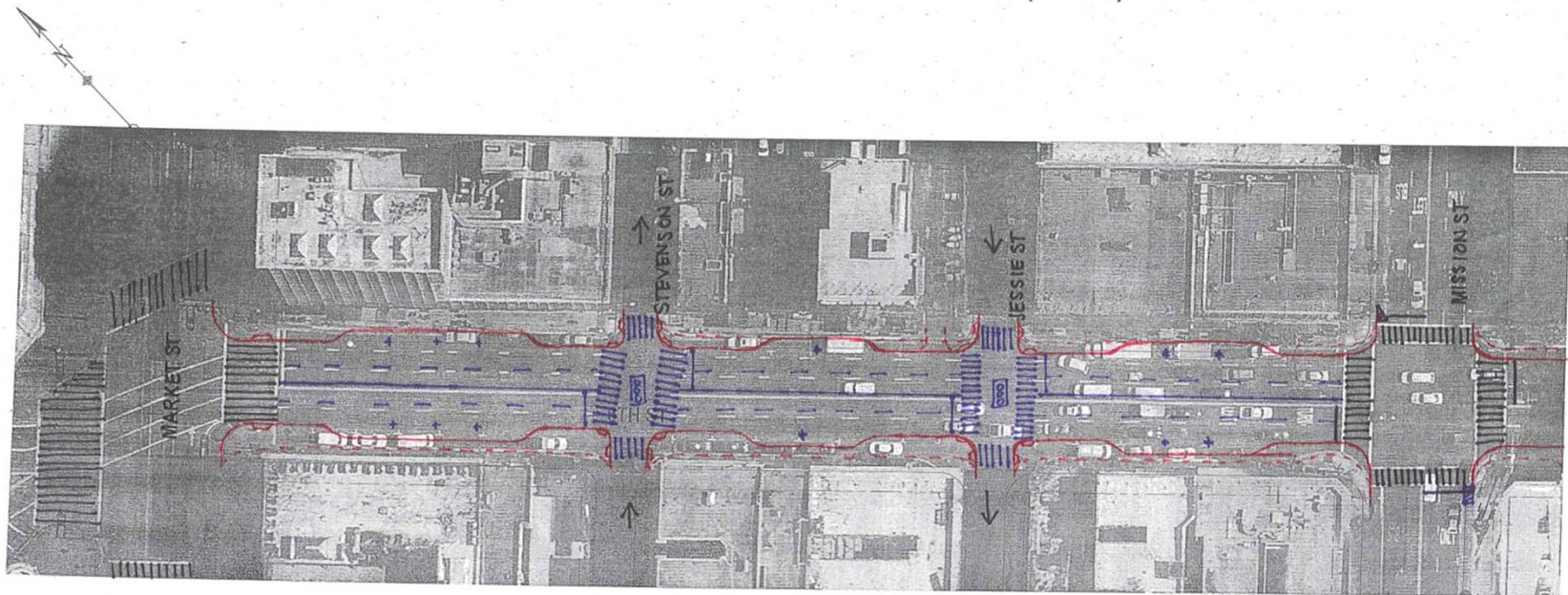


Case Study: 6th Street (Market Street to Howard Street) – Road Diet

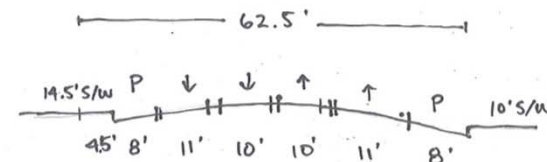


Case Study: 6th Street (Market Street to Howard Street) – Signalized Intersections

CASE STUDY: 6TH STREET FROM MARKET STREET TO FOLSOM STREET (1 OF 3) *ALTERNATIVE 2*

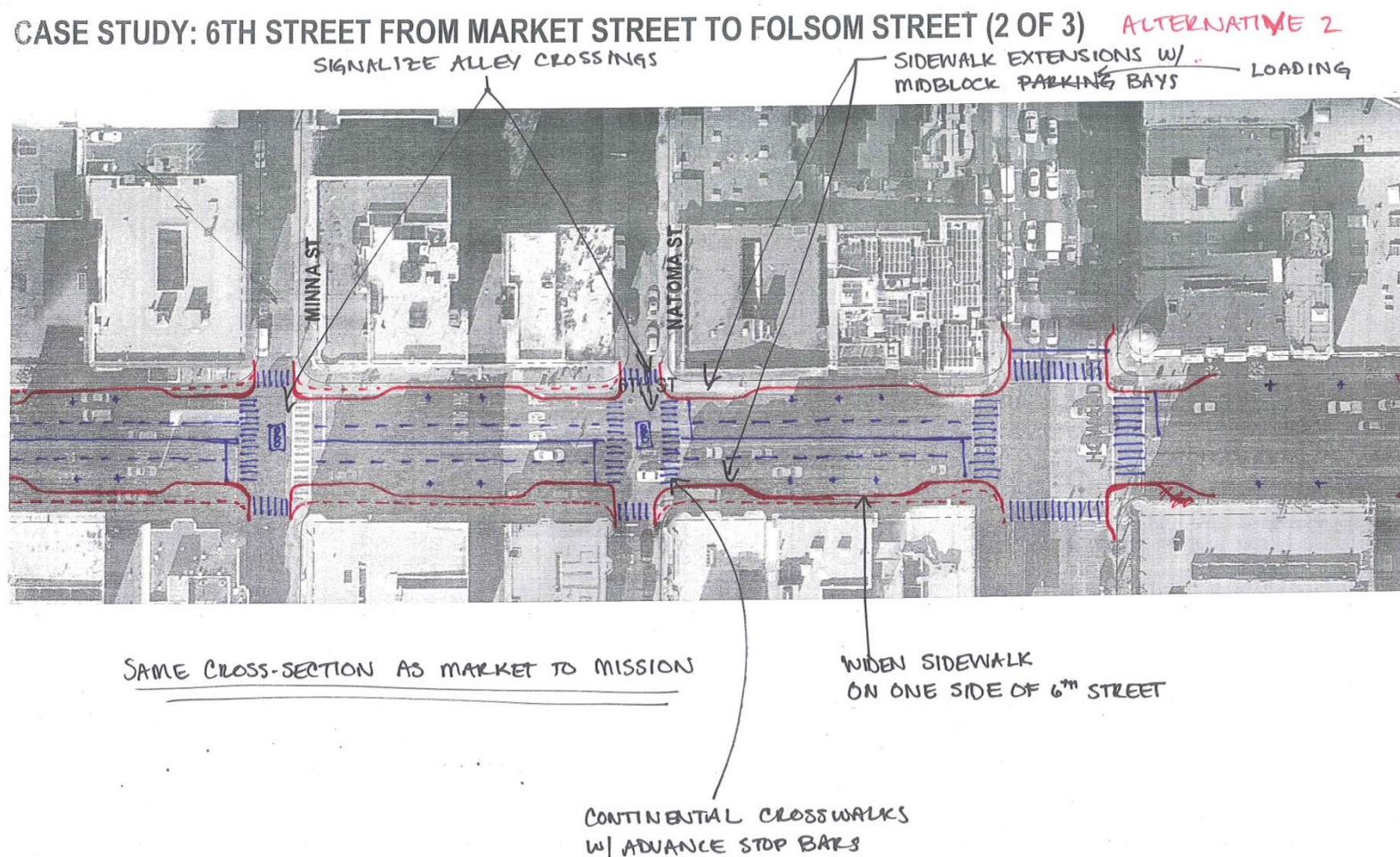


EXISTING



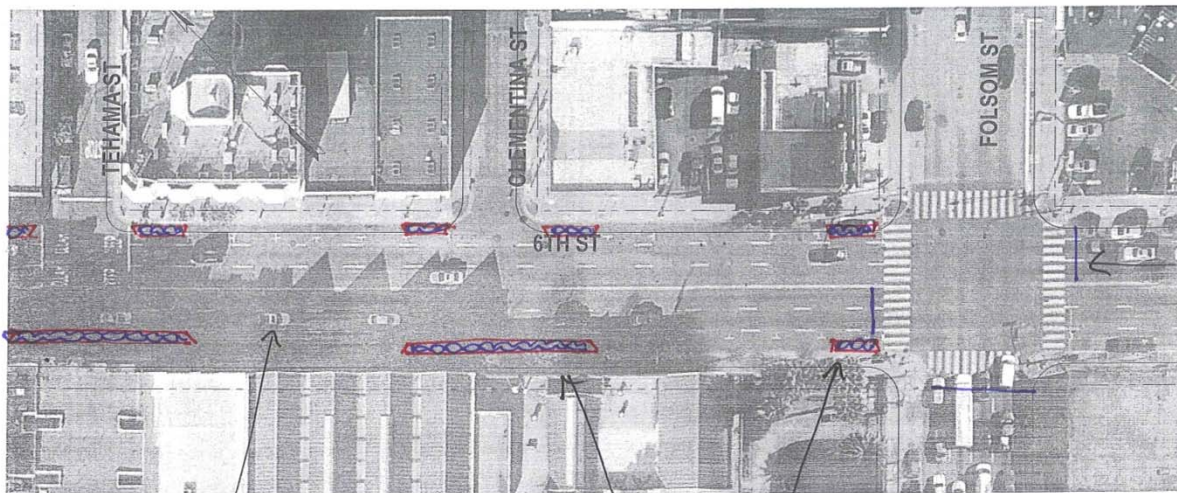
PROPOSED

Case Study: 6th Street (Market Street to Howard Street) – Signalized Intersections



Case Study: 6th Street (Market Street to Howard Street) – Signalized Intersections

CASE STUDY: 6TH STREET FROM MARKET STREET TO FOLSOM STREET (3 OF 3) *ALTERNATIVE 2*



REMOVE TOW-AWAY
(FULL-TIME PARKING/
LOADING)

MOVEABLE SIDEWALK EXTENSIONS
W/ LOW PLANTINGS AND/OR FURNITURE
(PARKLETS)

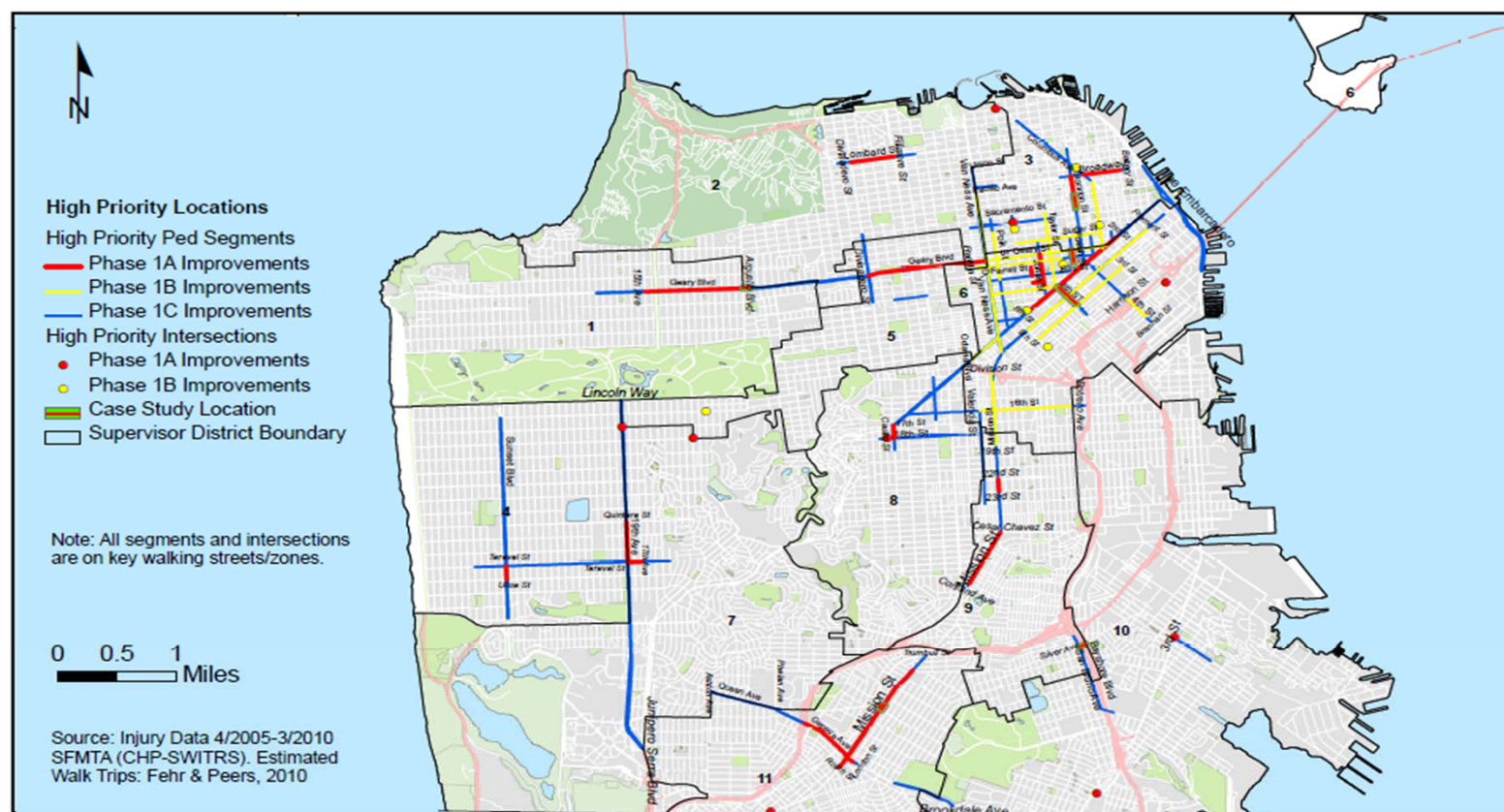
ADVANCE STOP BARS

DRAFT Preliminary capital project list

Preliminary Capital Improvements List: Phase I

- Phase I Better Streets Plan Standard Improvements:
 - 44 miles of priority locations for:
 - *Safety improvements especially*
 - *Also included Walkability & Sustainability improvements*
- Phase I A Safety Improvements:
 - More Focused: 8 miles and 9 stand-alone intersections
 - Segments with 38+ severity-weighted injuries per mile
 - *Except NE segments: 90+ severity-weighted injuries per mile*
 - Stand-alone Intersections with 2.1+ severity-weighted injuries per 10 M crossings
 - Broader range of safety improvements
 - *Such as speed reduction measures*
 - Smaller price tag: \$18 M – \$ 81 M

Preliminary Capital Improvements List: Locations



Preliminary Capital Improvements List: Rankings and Criteria for Different Treatments

Pedestrian Improvement Type (Treatment)	Est. Cost for Phase I A (\$ Millions)	Criteria for Including Location
Bus Bulb-Outs	\$ 6.0	TEP priority on Rapid Routes
Continental Crosswalk and Advance Limit/Yield Lines	\$3.9	All existing crosswalk locations
Pedestrian Countdown Signals	\$1.8	All crossings with traffic signals but not countdowns
Pedestrian Signal Changes and Pedestrian Refuge Islands	TBD	SFMTA Pedestrian Signal Timing Guidelines and assessment of locations for roadway and median width, etc.
Speed Reduction Measures (e.g., lane reduction, radar speed display signs)	TBD	Posted or 85 th percentile speeds of 30+ MPH
Corner and Crosswalk Lighting Upgrades	\$2.0	Locations with nighttime ped. inj. collisions at least 50% of total
Flashing Beacons	\$0.1	Highest severity-weighted ped. injury totals at uncontrolled or mid-block locations
Corner Bulb-outs	\$23.4	Scores based on: roadway width, posted speed, traffic volumes and TEP rapid route (but not recommended for bus bulb)
Sidewalk Widening	\$45.0	BSP guidelines (for minimum width)

Preliminary Capital Improvements List: Future Refinements

- Could Not Do Field or Full Feasibility Checks
- Needs Additional Steps Before Implementation:
 - Technical Refinement
 - Community Outreach
 - Environmental Review
 - Policy Board Adoption
- Not an Exclusive or Fully Comprehensive List

Upcoming PSAC presentations

November

- Final Report Highlights
- Next Steps

Stay involved!

- Monthly presentations at PSAC
- Join the mailing list for updates: send an email to walkfirst@sfgov.org



For more information visit:
<http://walkfirst.sfplanning.org>



Email us at:
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Thank you!



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