Masonic Avenue
Streetscape Improvement Project

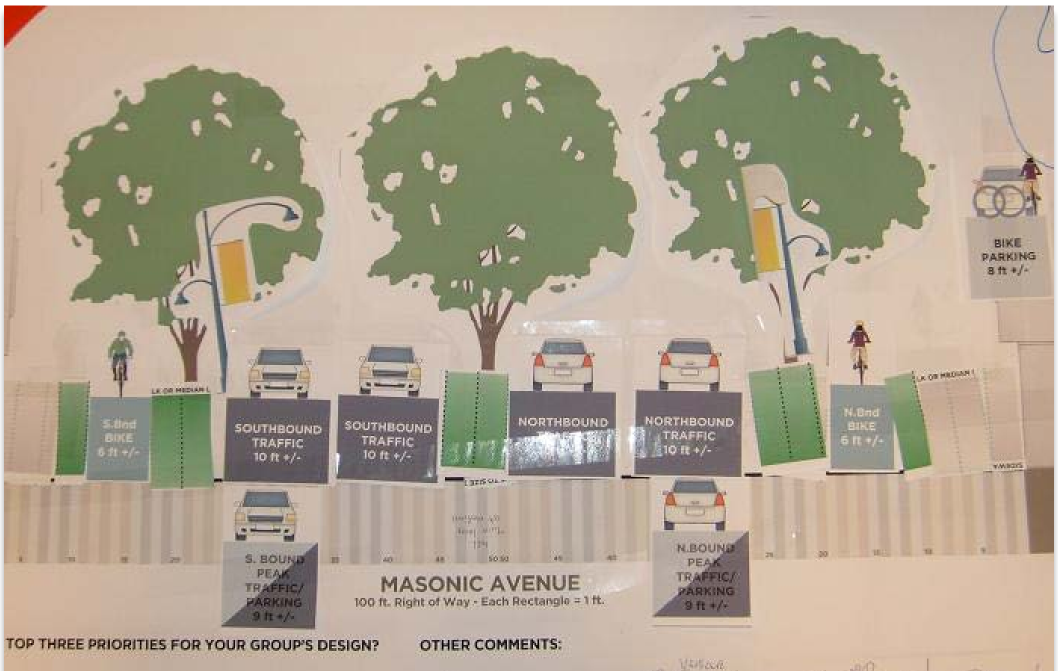
Project Area

Masonic Avenue from
Fell Street to Geary Blvd.

Courtesy of UC Berkeley

Community Workshop 1

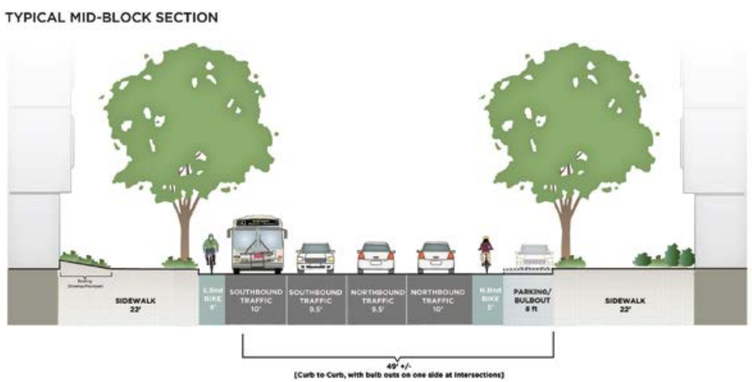
Small Group Conceptual Exercise, Community Priorities

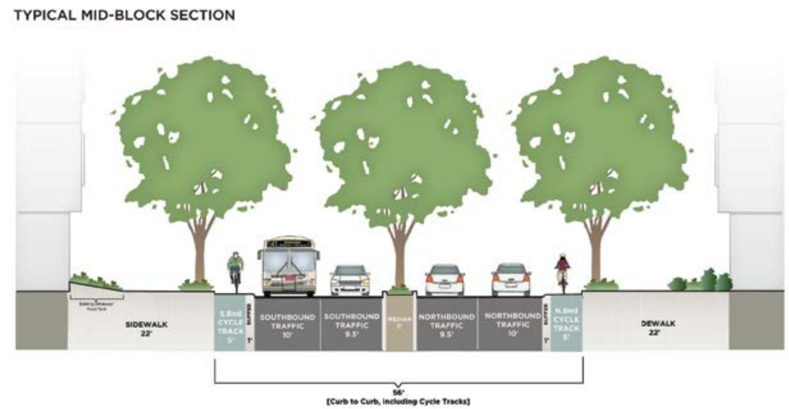


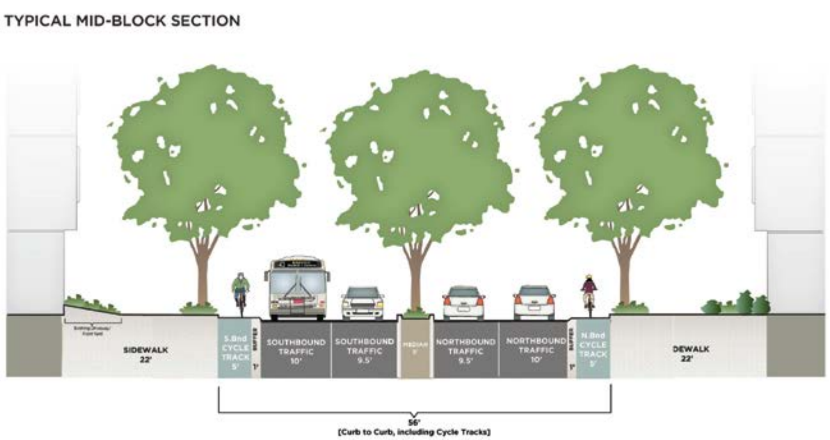
Creating an "Ideal Section"

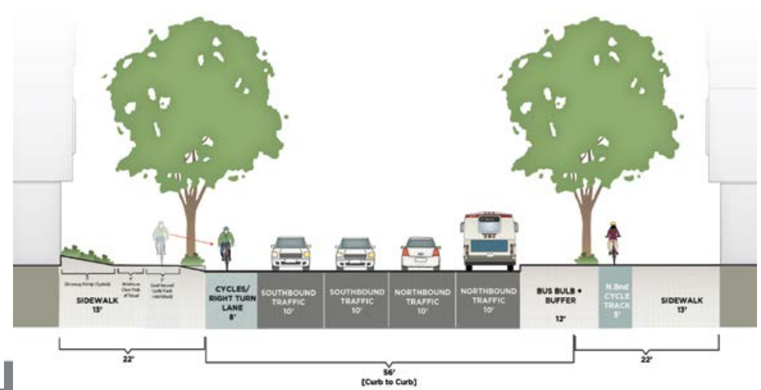
Community Workshop 2

Presentation of 4 Potential Street Design Options





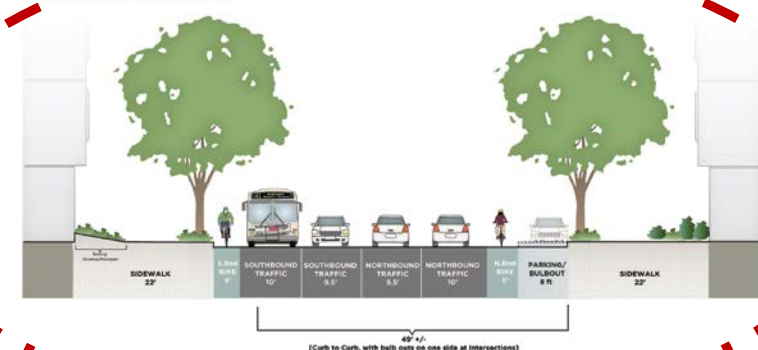


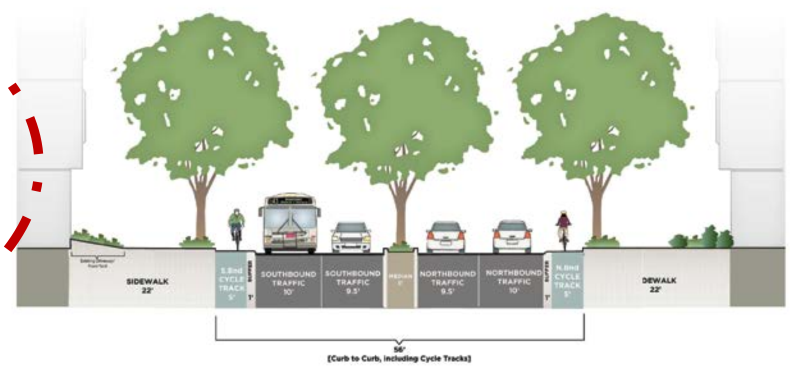


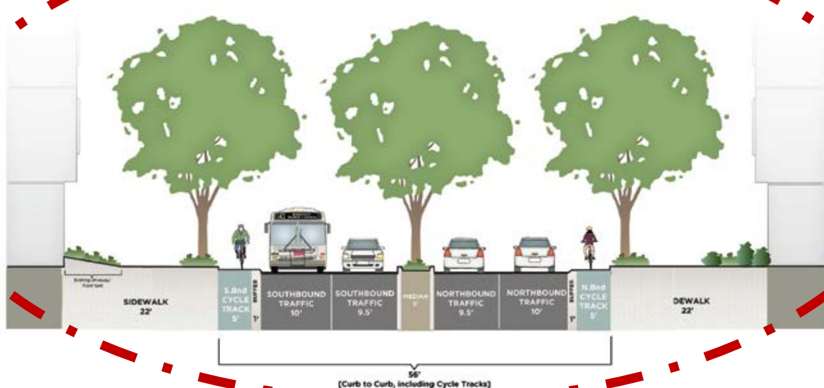
Community Workshop 2

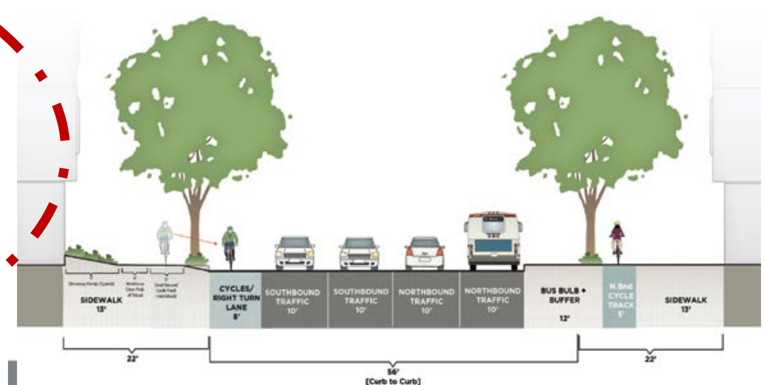
Survey Results

Options A and C Preferred









Community Workshop 3

Proposals

The Gateway

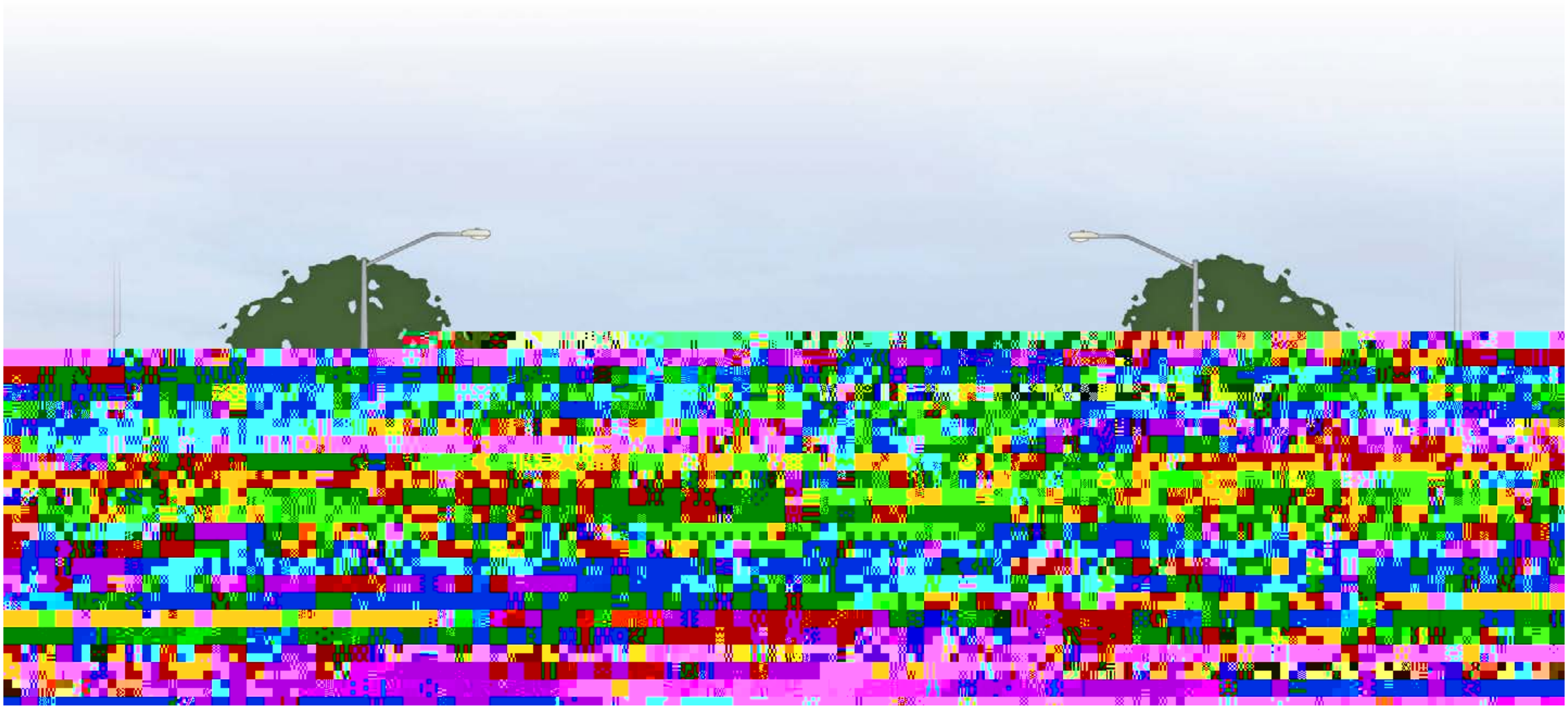
is a *hybrid of Option A with added traffic calming elements*

The Boulevard

is a *hybrid of Option C with added traffic calming elements*

The Boulevard

Section Rendering



No parking, 4 lanes, cycle track, median

Proposed Plaza Design – Plan View

Proposed Plaza Design – Renderings

Proposed Plaza Design – Renderings

Proposed Plaza Design – Renderings

Public Art – "Points of Departure"

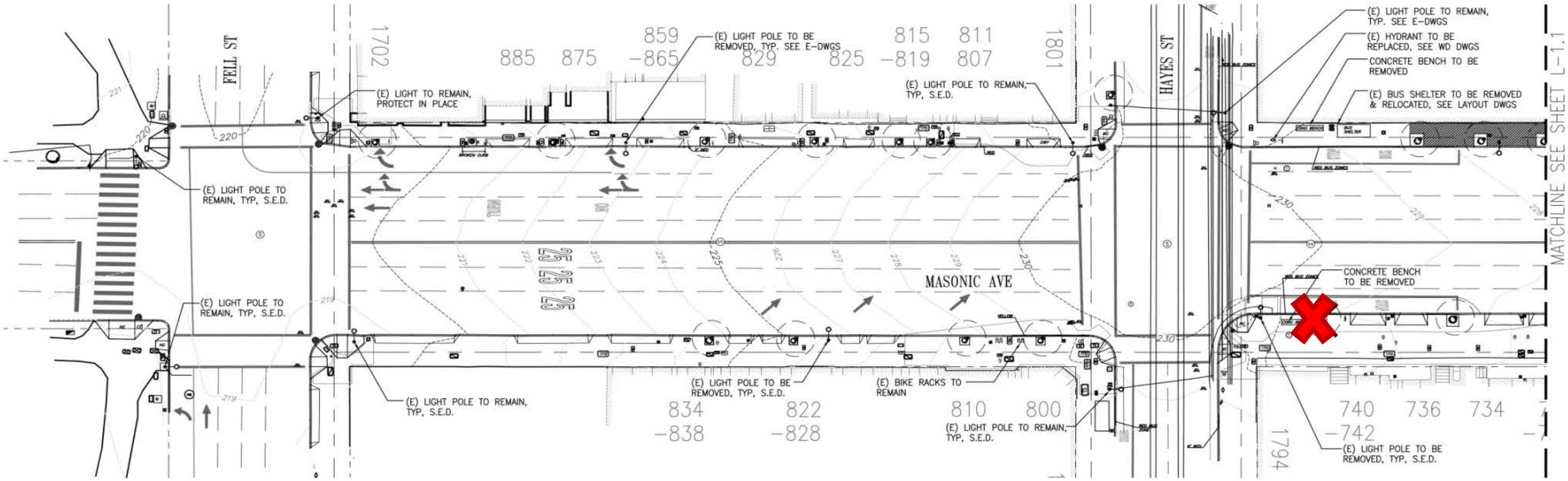
Timeline

- June 2010-January 2011 - Planning, Conceptual Design
- 2011-2012 Environmental Review
- September 2012- MTA Board Approval
- 2012-2014 Funding Phase
- Spring 2014 to Winter 2014 Design
- June 26, 2014, Public Meeting Open House
- **Spring 2015 to Summer 2015 Bid/Award**
- Summer 2015 to Summer 2016 Construction

48 trees proposed for Removal
185 new trees proposed to plant

Net gain 137 trees

Proposed Trees to be Removed



Trees proposed to be removed because of construction/road alignment

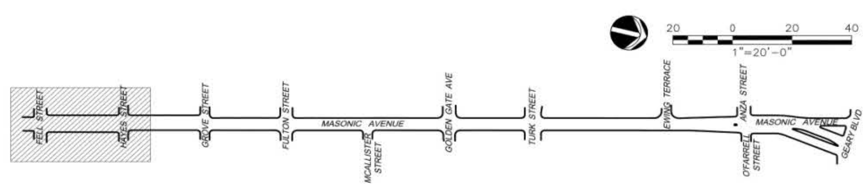
Trees proposed to be removed because of health/structural issue

DEMOLITION LEGEND

- (E) TREES TO REMAIN, PROTECT IN PLACE, SEE SPECS
- (E) TREES TO REMOVE. STUMP GRIND TO 3" BELOW FINISHED GRADE
- SAWCUT AND REMOVE (E) SIDEWALK CONCRETE PAVING FOR NEW TREE WELLS, SEE LANDSCAPE LAYOUT PLANS FOR LOCATIONS

NOTES:

1. FOR EXISTING UTILITIES LEGEND, SEE SHEET L-0.0
2. UTILITIES TO BE RELOCATED OR ABANDONED ARE IDENTIFIED ON THIS DRAWING. PROTECT IN PLACE ALL OTHER UTILITIES TO REMAIN.
3. EXISTING UNDERGROUND UTILITY LINES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. CONFIRM EXACT LOCATIONS BEFORE ANY EXCAVATION.
4. REMOVE ALL EXISTING TRASH RECEPTACLES AND BIKE RACKS NOTED ON PLANS AND RETURN TO THE DPW YARD AT 2323 CESAR CHAVEZ STREET.
5. SEE R-DWGS FOR LIMITS OF SIDEWALK DEMOLITION.
6. FOR EXISTING SHELTERS NOTED TO BE REMOVED OR RELOCATED, CONTACT MS. JANA LORD AT CLEAR CHANNEL AT (510) 772-8745



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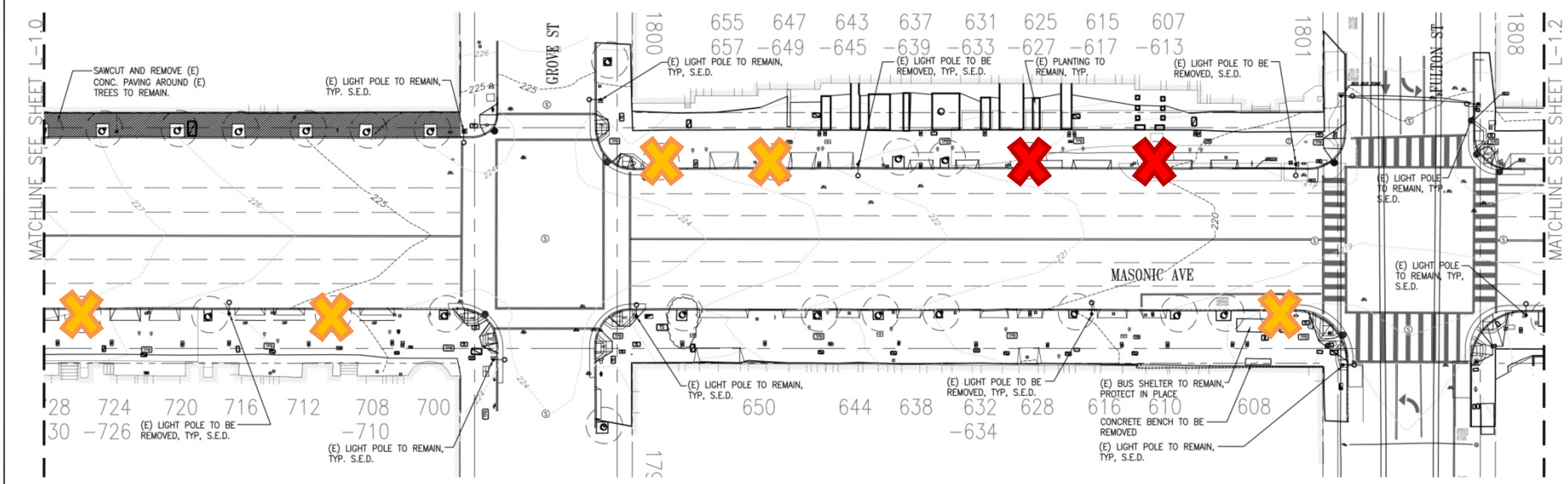

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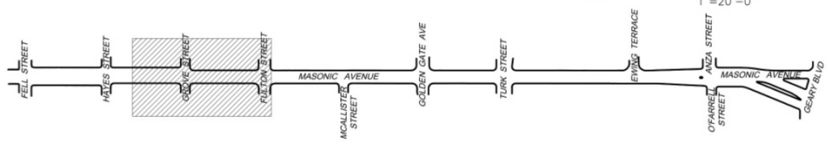

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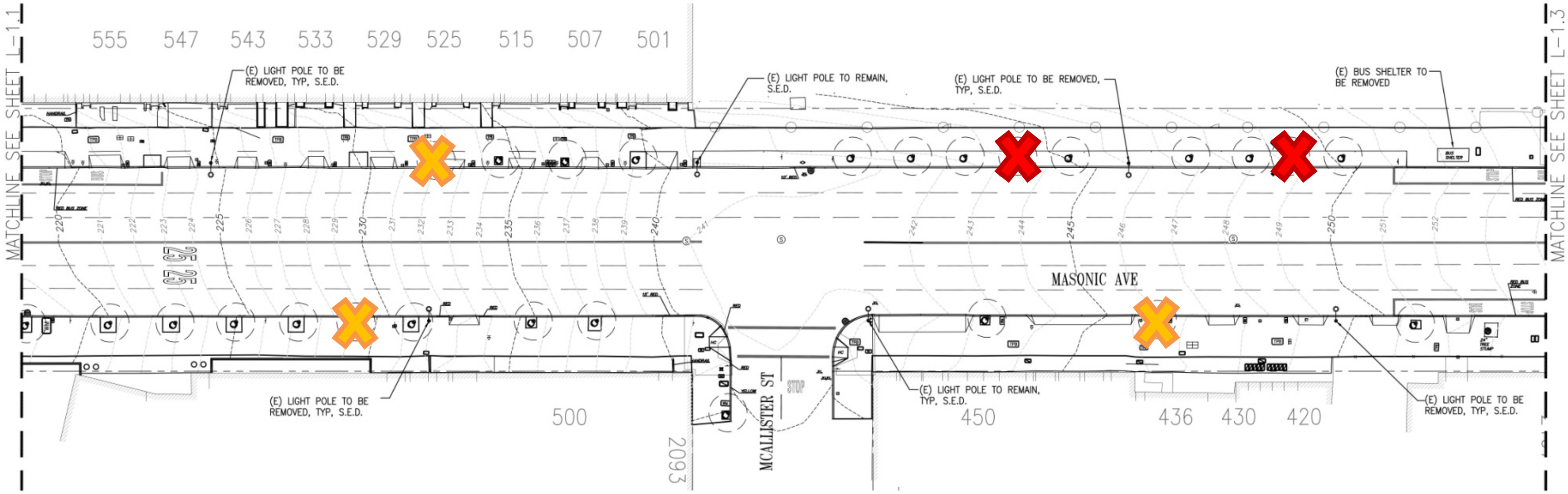

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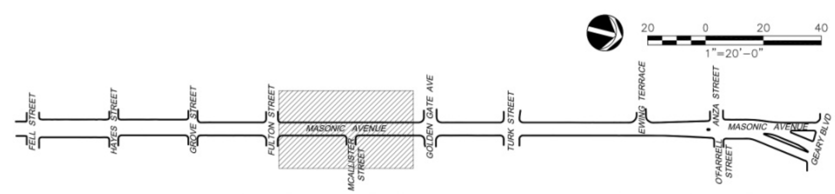

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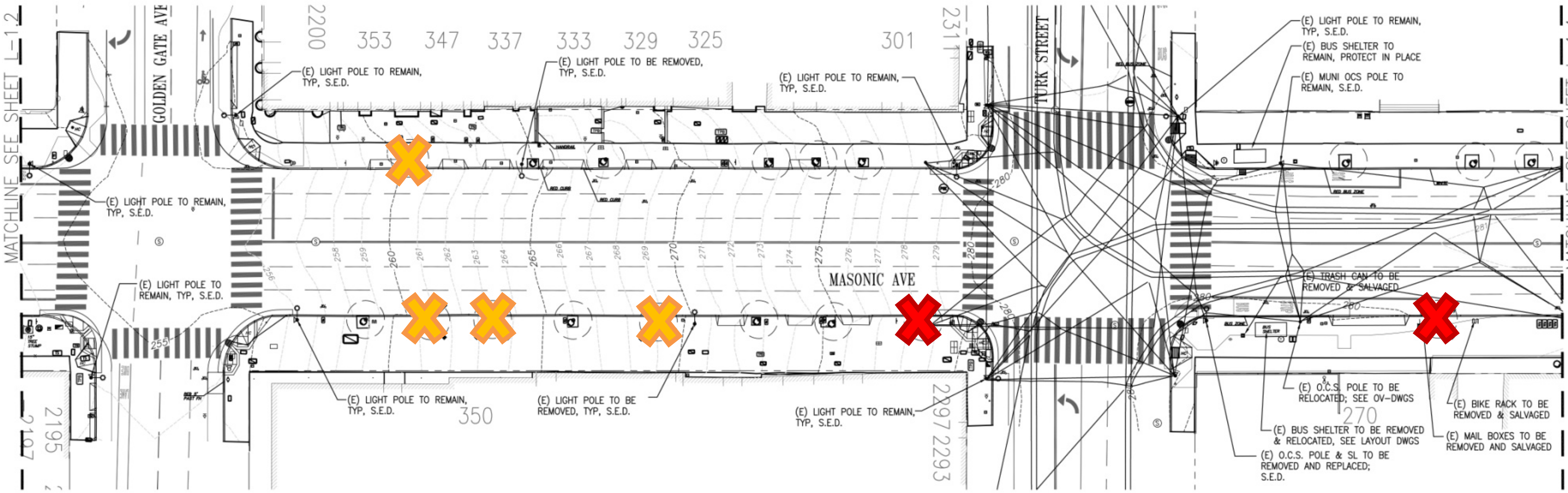

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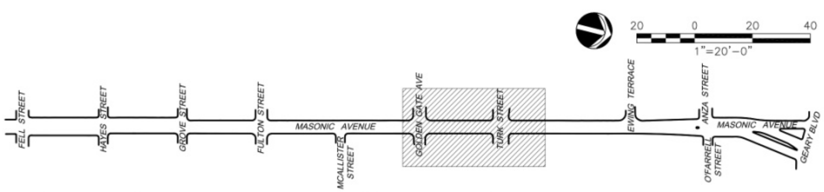

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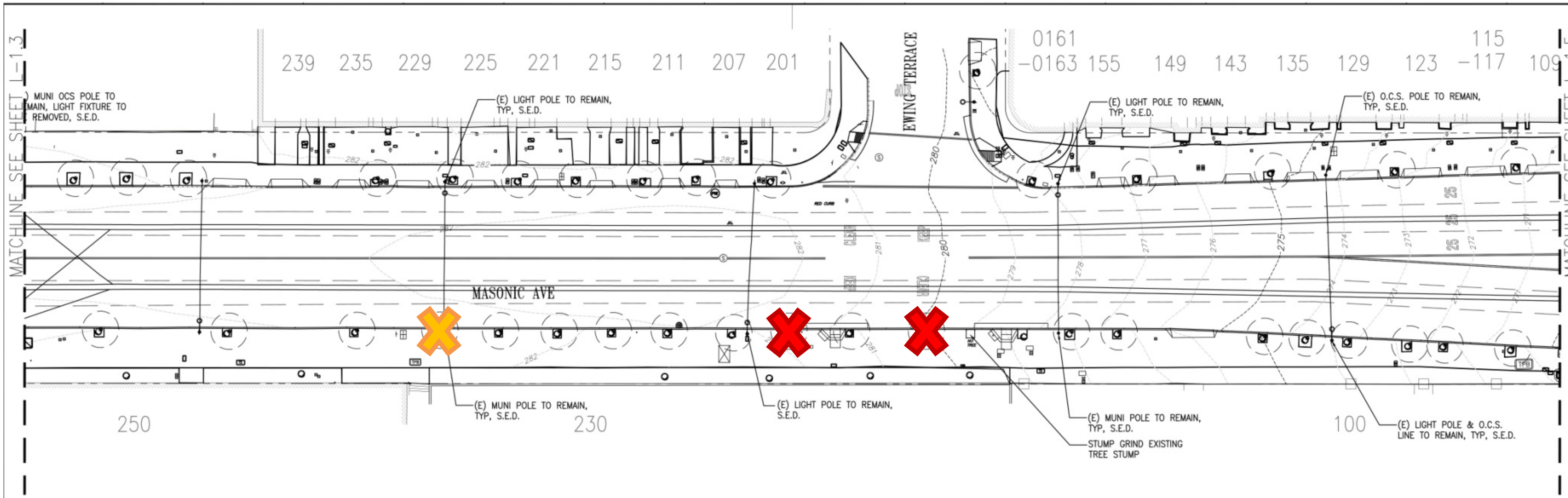

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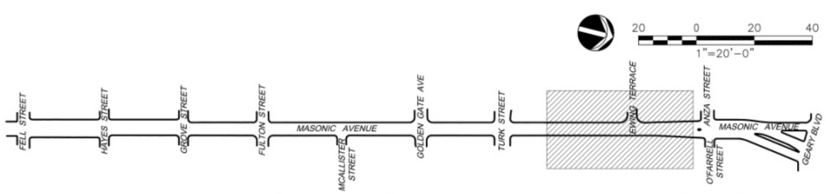

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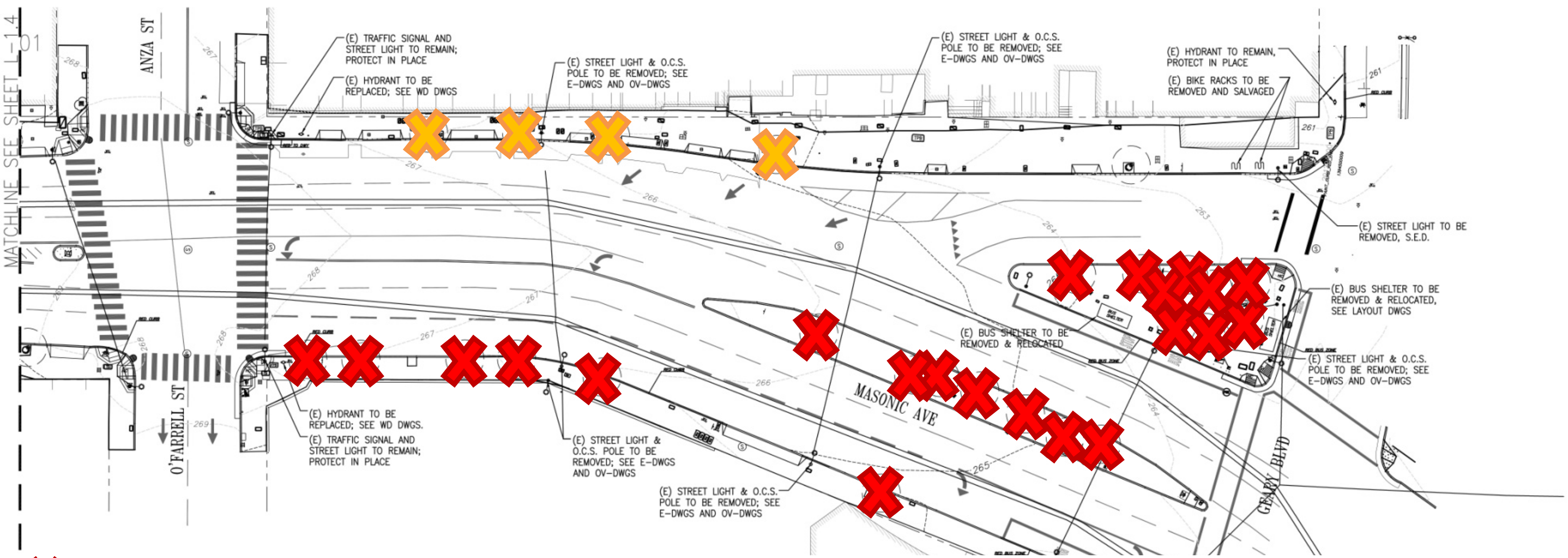

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(E) TRAFFIC SIGNAL AND STREET LIGHT TO REMAIN; PROTECT IN PLACE

DEMOLITION LEGEND

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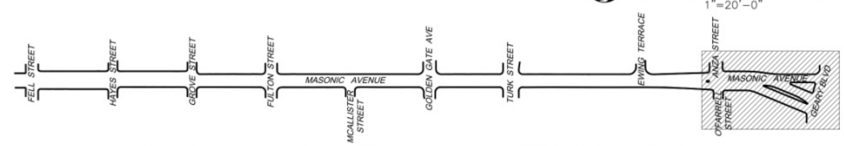

Selection of Trees

Fraxinus angustifolia 'Raywood'
(Raywood Ash)

Size: Height: 30-40'; Spread: 20'
Growth: Fast
Character: Deciduous; oval and upright; moderate canopy.
Foliage: Dark green, serrated, pinnate leaves, with paired leaflets 1" long. Fall foliage is purple-red; tree is bare November-February.
Flower: Insignificant flowers, rarely seen.
Fruit: Seedless; this variety lacks the winged seeds typical of ashes, and produces little sidewalk litter.
Bark: Smooth, light brown bark.
Watering: In general, 15-20 gallons per week for the first 2 years; 15-20 gallons twice a month for the 3rd year; as needed after 3 years (varies by soil, sun, and wind conditions).
Tree Care: Low. Early pruning to train a good shape; pruning needed less frequently with age.
Tolerance: Drought, any soil, extreme temperatures.
Special Considerations: Prefers sun and performs best in the warmer microclimates. Does not tolerate constant wind or fog.
Notable Traits: Native to South Europe, Western Asia. Fine, delicate-looking tree.

*In San Francisco urban conditions, lower range for height and spread may be expected

More care info: www.sfdpw.org/trees
Source: Friends of the Urban Forest

Selection of Trees

Lophostemon confertus (formerly Tristania conferta)
(Brisbane Box)

Size: Height: 30-45'; Spread: 25'
Growth: Moderate to fast
Character: Evergreen; upright, oval form; moderate canopy.
Foliage: Green, glossy, oval leaves 4-6" long. New growth has a slight red tinge.
Flower: Small, white, distinctive, but not showy flowers in clusters 2-4" across, bloom July-August.
Fruit: Hard, brown seed capsules form in fall and persist on tree.
Bark: Mottled, shredding, light brown or reddish bark.
Watering: In general, 15-20 gallons per week for the first 2 years; 15-20 gallons twice a month for the 3rd year; as needed after 3 years (varies by soil, sun, and wind conditions).
Tree Care: Moderate. Early pruning needed to train a good shape; pruning needed less frequently with age.
Tolerance: Drought tolerant (once established), poor drainage, any soil, smog.
Special Considerations: Prefers sun. Does not tolerate strong, steady winds.
Notable Traits: Native to Australia. Low-maintenance street tree well adapted to harsh urban conditions. Disease and pest resistant.

*In San Francisco urban conditions, lower range for height and spread may be expected

More care info: www.sfdpw.org/trees
Source: Friends of the Urban Forest

Selection of Trees

Lyonothamnus floribundus asplenifolius
(Fernleaf Catalina Ironwood)

Character: Evergreen; irregular form; moderate canopy.
Size*: Small to Medium (Height: 20-35'; Spread: 15').
Growth Rate: Moderate.
Foliage: Dark green, narrow, deeply lobed leaves, 4-6" long, with fernlike leaflets, glossy above, gray and hairy below.
Flower/Fruit/Bark: Tiny white flowers in clusters 4-8" across, bloom June-September, persist year-round. Insignificant fruit. Rough, shredding red-brown bark.
Monthly Watering Needs: In general, 15-20 gallons per week for the first 2 years; 15-20 gallons twice a month for the 3rd year; as needed after 3 years (varies by soil, sun, and wind conditions).
Tree Care: Moderate. Early pruning needed to train to a good shape; pruning needed less frequently with age. Requires removal of suckers.
Tolerances: Drought tolerant (once established), sandy soil, salt air; steady, moderate winds; fog.
Special Considerations: Prefers sun or partial shade. Needs excellent drainage and performs best with less wind exposure. Prone to suckering. Chlorosis may develop if planted in heavy soil.
Notable Traits: Native to Catalina Island. Good street tree for coastal areas, as long as it has some wind protection.

*In San Francisco urban conditions, lower range for height and spread may be expected

More care info: www.sfdpw.org/trees
Source: Friends of the Urban Forest

Selection of Trees

Columnar Ginkgo
(Ginkgo biloba 'Princeton Sentry')

Character: Deciduous; upright, narrowly conical form.
Size: Medium (Height: 40'; Spread: 20').
Growth Rate: Slow.
Foliage: Light green, fan-shaped leaves, 2-3" across. Fall foliage is golden yellow; tree is bare November-March.
Flower/Fruit/Bark: Insignificant flowers in March. All male cultivar; catkin-like pollen sacs, no fruit. Rough, light gray bark.
Monthly watering Needs: In general, 15-20 gallons per week for the first 2 years; 15-20 gallons twice a month for the 3rd year; as needed after 3 years (varies by soil, sun, and wind conditions).
Tree Care: Low. Early light pruning and staking to establish upright central leader. Water and keep staked and protected during first 5-10 years. Minimal pruning needed once properly trained. Keep lower branches on as long as possible for fastest growth.
Tolerances: Drought tolerant (once established), sandy soil, salt air, smog, fog, temperature extremes.
Special Conditions: Prefers sun. Does not tolerate strong, steady winds. Needs good drainage. Needs extra water in hot or windy conditions. Vulnerable to vandalism in early years due to slow growth.
Notable Traits: Native to China, very little native habitat left. Most trees sold at nurseries are male clones. Leaves used in Chinese herbal medicine. Can be used in bonsai.

Source: Friends of the Urban Forest

More care info: www.sfdpw.org/trees

Selection of Trees

Cassia leptophylla
(Gold Medallion Tree)

Size: Height: 20-25'; Spread: 30'
Growth: Fast
Character: Evergreen, may be semi-deciduous; moderately dense, rounded canopy.
Foliage: Dark green, pinnately-compound leaves with 2-3" long leaflets.
Flower: 6-8" long spikes of bright yellow, 3" flowers throughout summer. May sporadically flower after main flowering.
Fruit: 12" long brown pod.
Bark: Slightly furrowed reddish-brown bark.
Watering: In general, 15-20 gallons per week for the first 2 years; 15-20 gallons twice a month for the 3rd year; as needed after 3 years (varies by soil, sun, and wind conditions).
Tree Care: Moderate. Requires regular pruning to shape when young.
Tolerance: Drought (once established); any soil; medium winds.
Special Considerations: Fruit may cause litter issues
Notable Traits: Native to Brazil. Stunning display of yellow flowers in summer.

*In San Francisco urban conditions, lower range for height and spread may be expected

More care info: www.sfdpw.org/trees
Source: Friends of the Urban Forest

Selection of Trees

Phoenix dactylifera 'Zahidi'
(Zahidi Date Palm)

Size: Height: 80'; Spread: 30'
Growth: Slow to Medium
Character: Evergreen, erect palm
Foliage: Holds a spherical crown of stiff waxy grey-green leaves
Flower: Yellow bowl shaped
Fruit: Yellow to reddish brown dates but will not produce edible fruits in our landscape due to the cooler temperatures.
Bark: Slender trunk, scarred with old leaf bases
Watering: Regular, Low once established
Tree Care: Low-Prune spent fronds
Tolerance: Drought (once established); any soil; medium winds.
Notable Traits: True date palm. Not susceptible to fusarium wilt.

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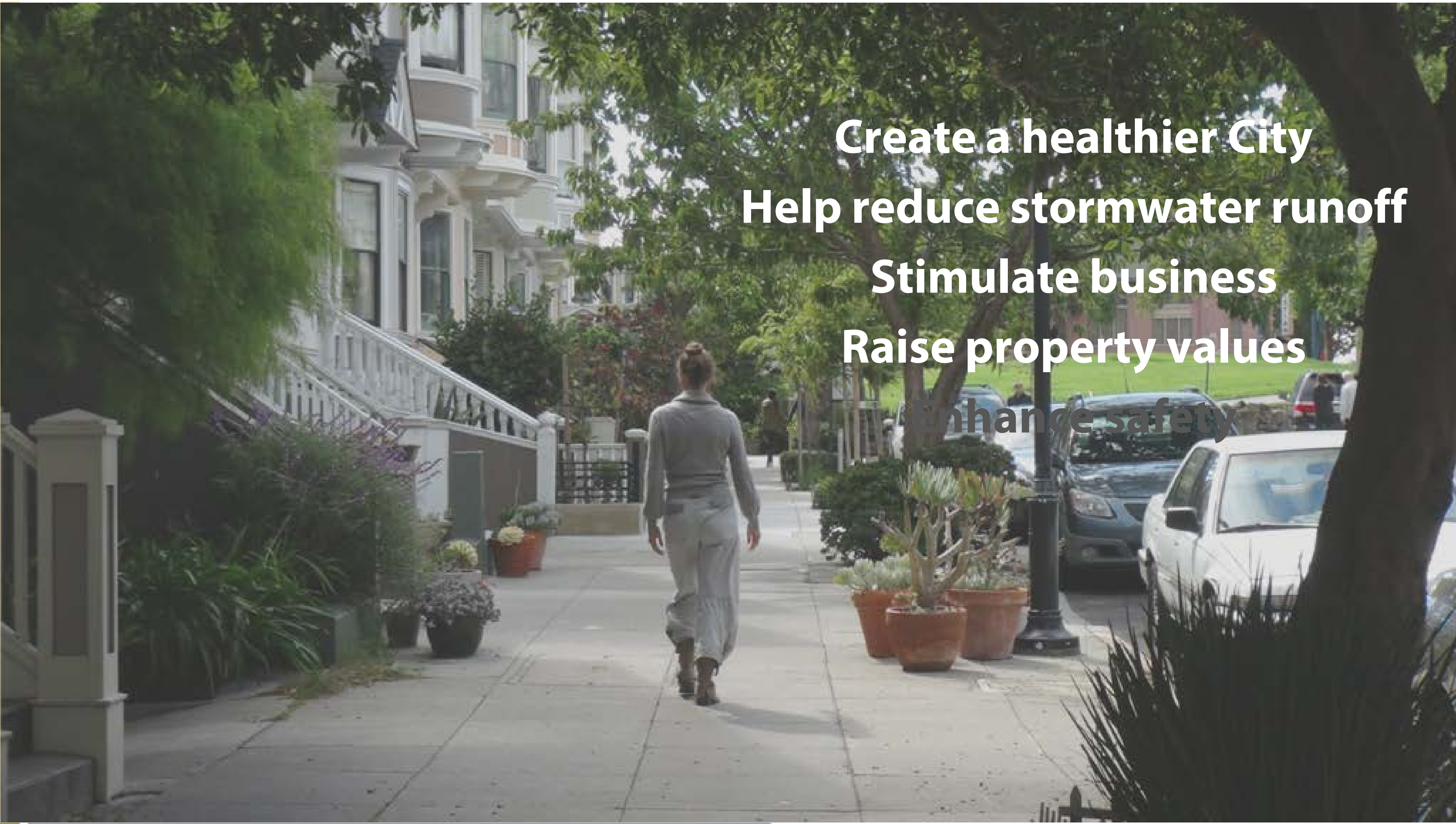
More care info: www.sfdpw.org/trees

Benefits of trees



Create a healthier City

Help reduce stormwater runoff

Stimulate business

Raise property values

Enhance safety

Benefits of trees

669,000

Estimated number of trees in San Francisco.[2]

516,468,000 *gal*

Estimated gallons of water trees divert from the sewer system each year.[3]

196,000 *tons*

Amount of carbon stored by the city's trees each year.[2]

260 *tons*

Amount of atomospheric pollutants filtered by the urban forest annually.[2]

$1,700,000,000

Estimated capital value of San Francisco's urban forest (i.e. replacement cost for all existing trees within the city).[2]

$98,272,878

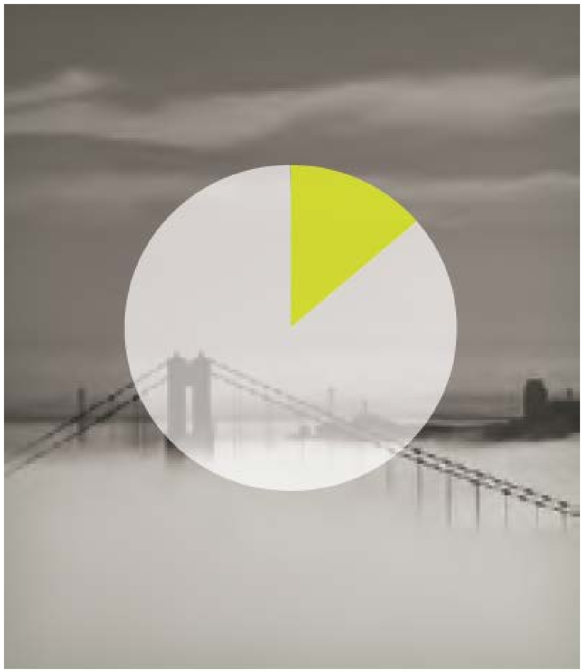
Increase in property values provided by San Francisco's trees annually.[4]

$9,439,309

Value of environmental benefits (hydrological, air quality, and carbon storage) provided annual by the urban forest.[2,4]

Every $1 spent on street trees, San Francisco receives an estimated $4.37 in benefits *(U.S. Forest Service)*

Urban tree canopy



13.7%

SAN FRANCISCO

Less than 14% of San Francisco is covered by tree canopy, compared to National Average with 21% tree cover

17%	21%	23%	24%	30%
CHICAGO	LOS ANGELES	SEATTLE	NEW YORK CITY	PORTLAND

Urban Forest Plan

Benefits of trees

San Francisco currently has 105,000 street trees planted in sidewalks – 60% of which are privately maintained.