



Green Connections

Kearstin Dischinger, SF Planning Department

Project Team: Lily Langlois, Paul Chasan,
Lisa Chen, Adam Varat

What is a Green Connection?

A Green Connection is a special street or path that connects people to parks, open spaces, and the waterfront, while enhancing the ecology of the street environment.

Project goals:

Public Health: *Increase active transportation to parks*

Sustainability: *Enhance urban ecology*

Livability: *Support neighborhood stewardship and placemaking*

Public Health:

Increase active transportation to parks

Hudson River, NYC



Golden Gate Park



Sustainability:

Enhance Urban Ecology

Shotwell Street, SF



Livability:

Support neighborhood stewardship and placemaking

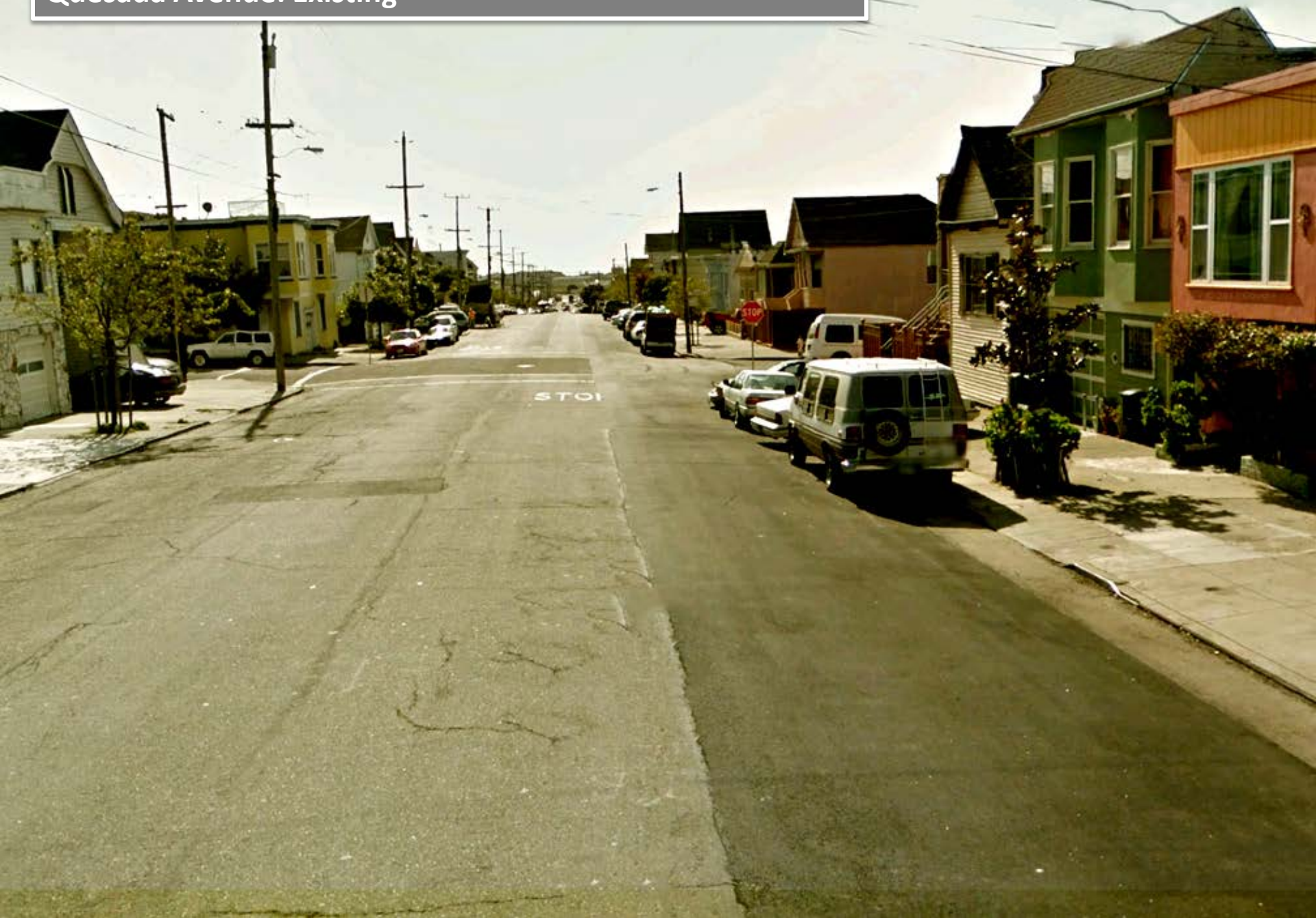


Quesada Avenue, SF



Chronicle / Liz Hafalia

Quesada Avenue: Existing



Quesada Avenue: Envisioned as a **Green Connection**



Key Project Deliverables

- **Green Connections Network:** 24 routes, 115 miles
- **Tools for Implementing the Network:**
 - Design Toolkit
 - Plant List & Ecology Guides
 - Community Resource List
- **Concept Designs:** Designs for 6 focus neighborhoods

Planning Process



Project Team & Partners

SAN FRANCISCO
PLANNING DEPARTMENT

SFMTA | Municipal Transportation Agency



SFDPH
Environmental
*improving environments
protecting health*



Community partners:



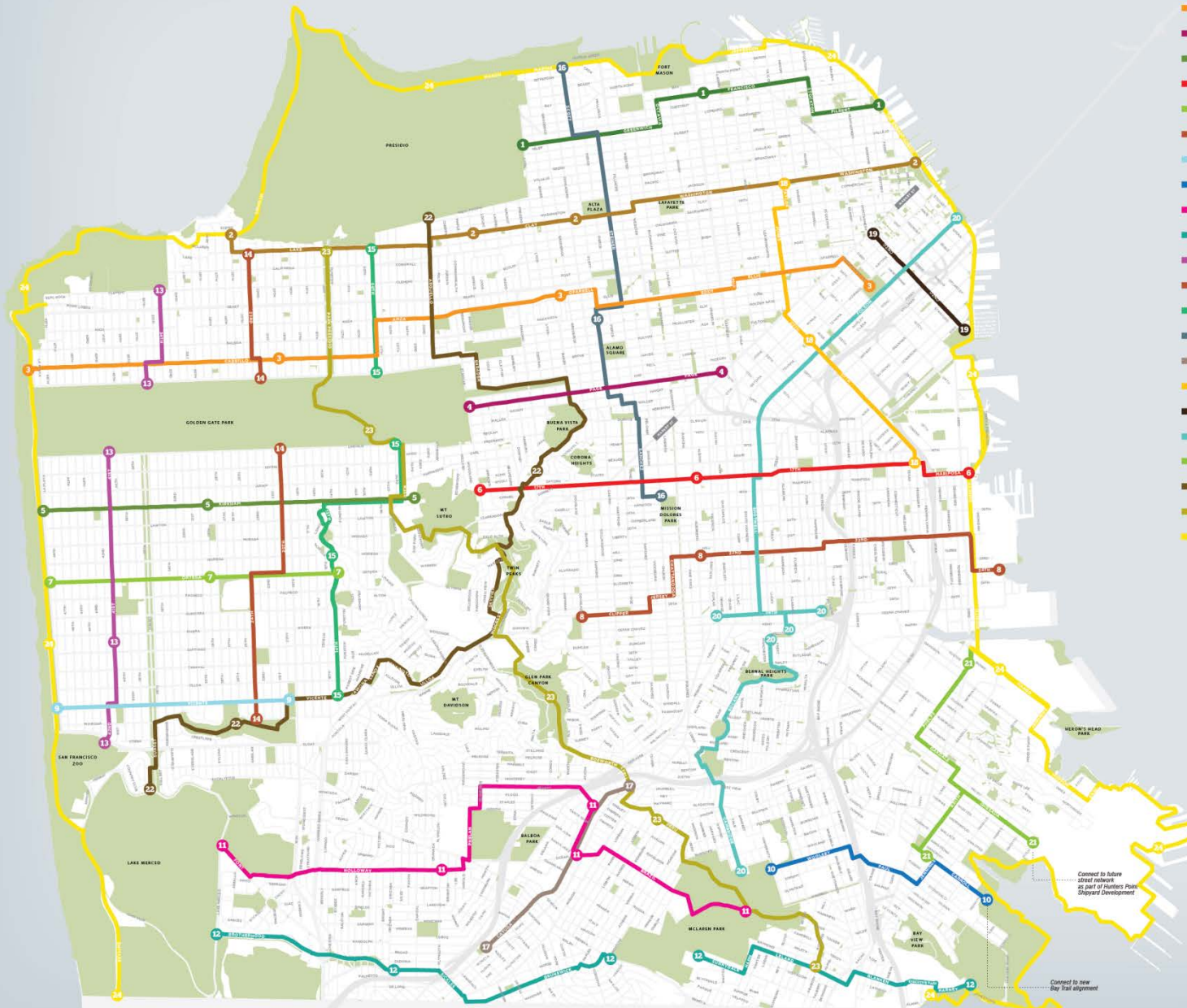
Funded by:





GREEN CONNECTIONS NETWORK

November 2013



LEGEND

ROUTES

- 1 Presidio to Bay: Monarch
- 2 China Beach to Bay: Pygmy Nuthatch
- 3 Market to Beach: Anna's Hummingbird
- 4 Bay to Beach: Cedar Waxwing
- 5 Kirkham, Sutro to Beach: Coyote Bush
- 6 Mission to Peaks: Anise Swallowtail
- 7 Ortega, 14th St to Beach: Coastal Prairie
- 8 Noe Valley to Central Waterfront: American Bushtit
- 9 Vicente, 20th to Beach: Coastal Dune Scrub
- 10 Yosemite Creek: Red-winged Blackbird
- 11 Ingleside: Coast Live Oak / California Buckeye
- 12 Lake Merced to Candlestick: Western Fence Lizard
- 13 Lincoln Park to Zoo: American Dune Grass
- 14 Presidio to Park Merced: Coast Buckwheat
- 15 West of Twin Peaks: Green Hairstreak
- 16 Marina Green to Dolores Park: West Coast Painted Lady
- 17 Excelsior: Cliff Swallow
- 18 Tenderloin to Potrero: Western Tiger Swallowtail
- 19 Downtown to Mission Bay: Western Gull
- 20 Folsom, Mission Creek to McLaren: Pollinators
- 21 Bayview to Bay Trail: Black-tailed Jackrabbit
- 22 Ridge Trail: Nuttall's White-crowned Sparrow
- 23 Crosstown Trail: Coyote
- 24 Shoreline: Western Snowy Plover and Salt Marsh Harvest Mouse

Notes:

Some portions of routes may not be ideal for bicycles due to conditions such as steep topography, stairs or trails.

The proposed network falls mostly on public rights of way, but occasionally deviates onto public properties such as park lands.



Design Toolkit: 19 Street Typologies

Toolkit Element: Partial Diverters



Conceptual rendering, SFPUC
Tiffany Avenue and Duncan Street

ACTIVE TRANSPORTATION

Support Pedestrians	● ● ● ● ●
Support Bikes	● ● ● ● ○
Calm Traffic	● ● ● ● ○

URBAN ECOLOGY

Manage Stormwater	● ● ● ● ○
Enhance Habitat	● ● ● ● ○

NEIGHBORHOOD STEWARDSHIP AND PLACEMAKING

Potential Increase in Usable Public Space	● ● ● ● ○
---	-----------

ABILITY TO IMPLEMENT

Cost Effective (Low cost scores highly)	● ● ● ● ○
Ease of Maintenance	● ● ● ● ○

TRAFFIC AND PARKING CONSIDERATIONS

Potential Parking Loss at Intersection	● ● ● ● ○
Restricts Some Auto Access	● ● ● ● ○

Citywide Plant List



A plant database for San Francisco.

About Submit Feedback

10 plants found for: 1650 Mission Street [Filter Results](#)

<p>California Buckeye <i>Aesculus californica</i></p>	<p>Saltmarsh Mulefat <i>Baccharis glutinosa</i></p>
<p>Common or Creeping Spikerush <i>Eleocharis macrostachya</i></p>	<p>San Francisco Wallflower <i>Erysimum franciscanum</i></p>
<p>Woodland Strawberry <i>Fragaria vesca</i></p>	<p>California Wax Myrtle, Pacific Bayberry <i>Morella californica</i></p>
<p>Holly Leaf Cherry / Islay Cherry <i>Prunus ilicifolia</i></p>	<p>Fringe Cups, Big Flower Tellima <i>Tellima grandiflora</i></p>
<p>Cow Clover <i>Trifolium wormskoldii</i></p>	<p>Stinging Nettle <i>Urtica dioica</i> ssp. <i>gracilis</i></p>

Or search by plant communities.

This location is near a Green Connections route.

<p>4 Bay to Beach: Cedar Waxwing Route Info</p>	<p>Learn more ></p>
<p>20 Folsom Street: Red Admiral Route Info</p>	

© 2013 City and County of San Francisco

SAN FRANCISCO PLANNING DEPARTMENT

SFMTA Municipal Transportation Agency

SF Environment

San Francisco Department of Public Health

PORT

SAN FRANCISCO Parks Alliance

WALK SAN FRANCISCO

A plant database for San Francisco.

About Submit Feedback

Plant info: [Search Results](#)

	<p>Common Name: Holly leaf (Islais) Cherry</p> <p>Latin Name: <i>Prunus ilicifolia</i></p> <p>Former Latin Name: <i>N/A</i></p> <p><i>Prunus ilicifolia</i> is an evergreen shrub to tree, producing edible cherries, with shiny and spiny toothed leaves similar in appearance to holly.</p> <p>Wikipedia ></p>
--	---

Or search by plant communities.

Plant Type: Tree

Bloomtime: February – April

Attractive Features: White Flowers

Size at Maturity:

Climate Appropriate: SF Native

Suggested for Green Connections Routes:

<p>4 Bay to Beach: Cedar Waxwing Route Info</p>
--

© 2013 City and County of San Francisco

SAN FRANCISCO PLANNING DEPARTMENT

SFMTA Municipal Transportation Agency

SF Environment

San Francisco Department of Public Health

PORT

SAN FRANCISCO Parks Alliance

WALK SAN FRANCISCO

Example Concept Design: Oakdale Avenue

NEIGHBORHOOD SNAPSHOT

88% of residents are non-white
51% of units are owner occupied
34% of residents use transit or walk to work
14% of residents are unemployed
33% are foreign born

PROPOSED STREETScape

 **64 New Street Trees**
 **7,500 ft² Sidewalk Gardens**
 **4 New Corner Gardens**
 **17 New Pedestrian Streetlights**



How will Green Connections be implemented?

- **City-led** complete streetscape projects
- Coordination with **private development**
- **Community-led** Projects



City-led example: The Wiggle

- Redesign led by SFMTA, SFDPW, & SFPUC
- Links Market St to Golden Gate Park
- Focus on active transportation & stormwater



Community-led examples



Ecology Guides: route-specific information



Credit: Wikimedia Commons

YOSEMITE CREEK
SPECIES: RED-WINGED
BLACKBIRD



Credit: Vivian Reed

MISSION TO PEAKS
SPECIES: ANISE
SWALLOWTAIL

EACH ECOLOGY GUIDE INCLUDES:

A description of the route's Key Species or Key Habitat, and the important role it plays as part of the larger urban ecosystem.

6
MISSION TO PEAKS
SPECIES: ANISE SWALLOWTAIL

ROUTE HIGHLIGHTS
• The Castro, The Mission, Potrero Hill, Mission Bay, Jackson Playground, Franklin Square, Mount Sutro Open Space Preserve, The Blue Greenway

ANISE SWALLOWTAIL - *Papilio zelicaon*

Flying ghost!
The Anise Swallowtail is one of the three biggest San Francisco butterflies! The others, the Western Tiger Swallowtail and the Pipevine Swallowtail, can be identified with a single tick. Anise Swallowtails have black "shoulders." Western Tiger Swallowtails have black tiger stripes, and Pipevine Swallowtails are very in color from slate grey brown to rich shiny blue black. Anise Swallowtail females lay eggs on plants in the carrot family (Apiaceae) which include Anise, Fennel, and Dill. When the eggs hatch, the fat caterpillar (first larval stage) turns around and eats its own eggshells! During later instars, caterpillars feeding threatened may react by displaying a bright red, antiseptic-like scent gland (osmeterium) that deters a strong antiseptic odor intended to scare off predators. In San Francisco, the Anise Swallowtail is plentiful during San Francisco's 17th Annual Butterfly Count on July 5, 2011, observers counted a record number of Anise Swallowtails at 110 individuals counted. In his field notes, lepidopterist Liana O'Brien notes: "How high for this count. With 40 info and female in every recent lot in this city, this record number makes perfect sense."

RESIDENT OR MIGRATORY
Resident

KEY HABITAT FEATURES
Fairly open country, and most likely to be seen on bare hills or meadows, in fields or at the roadside. It is often seen in towns, in gardens or vacant lots.

DIET
Nectar Plants: Zinnia, Anise, Butterfly Bush. Host Plants: Dill, Fennel, Parsley, Queen Anne's Lace.

ASSOCIATED PLANTS & ANIMALS
Wild Anise - *Symphoricarpos chinensis*, Italy leaf (hibid) Cherry - *Prunus ilicifolia*, Yarrow - *Achillea millefolium*, Oak - *Quercus*, *Hesperococcus*.

NESTING INFORMATION
Eggs are laid singly on the undersides of leaves.

ADDITIONAL HABITAT PLANTS
Anise, Caraway, Coriander, Cilantro, Dill, Fennel (family including Coriander, Sweet Coriander, Yarrow, Lovage, Parsley, Parsnip, Queen Anne's Lace, Rue).

A description of places along the route, including parks, schools, and neighborhood commercial districts.

Descriptions of:

- Associated Plants & Animals
- Design and habitat considerations
- Resident or Migratory
- Diet
- Nesting information, where applicable
- Additional Habitat Plants

Community Resource List

Example:

Urban Watershed Stewardship Grants

Agency: San Francisco Public Utilities Commission (SFPUC)
/ San Francisco Office of the City Administrator

Type:  

Description: The Urban Watershed Stewardship Grant (WSG) Program is a partnership between the Community Challenge Grant Program and the San Francisco Public Utilities Commission. The WSG Program was developed specifically for community-based projects that help manage stormwater using ecologically based strategies known as green infrastructure. The WSG Program funds projects that harvest rainwater, remove impervious surfaces, or implement other green infrastructure like bioswales and rain gardens. See the PUC website for a full list of awarded projects.



Next Steps

- Incorporated into the General Plan
 - ROSE element
- Implement improvements
 - City projects
 - Community projects



THANK YOU!

Download the plan at:
greenconnections.sfplanning.org