Sustainable Streets Plan - Re-Engineering the Transportation Network with Green Streets

C/CAG Stormwater Committee – October 16, 2014

Sustainable Streets = Complete Streets + Green Streets

What are Complete Streets?

A Complete Street is safe, comfortable & convenient for travel via automobile, foot, bicycle, & transit.

What are Green Streets?

A green street incorporates green infrastructure to manage stormwater while making the street more walkable and aesthetically appealing.
Improved visibility

- Approached by and partnered with the San Francisco Estuary Partnership (SFEP) to develop a Green Streets Opportunity Sites GIS tool.
  - Land Use
  - Street and Sidewalk Width
  - Street Classification
  - Landscaping
  - Property Ownership
  - Topography
  - Storm Drain Locations

Green Streets Elements in Curb Extensions

San Francisco Estuary Partnership's Green Plan-IT

GreenPlan-It GIS Tool
**Green Streets Opportunities**

**Designing for Context**
- Downtowns
- Mixed Use Corridors
- Residential Neighborhoods
- And others...

**Green Streets Design Strategies Applicability**

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**Green Design Elements for Sustainable Streets**

- **Plazas - Rain Gardens**
- **Planter Strips – Swales, Rain Gardens, Green Gutters, Trees**
- **Curb Extensions – Rain Gardens**
- **Linked Tree Wells/Curbed Planters**
- **Parking Lane – Permeable Paving, Rain Gardens**

**Rain Gardens**

- Flexible use in open spaces and streets
**Vegetated Swales**
- Linear form for use in streets and parking lots

**Green Gutters**

**Linked Tree Wells**
- Rain gardens
- Tree trench with under-drain

**Infiltration Trench, Basin, or Well**
- Similar form to vegetated swales or rain gardens
- Function focused on infiltration
Permeable Pavement

Source: [http://www.cityofberkeley.info](http://www.cityofberkeley.info)

City of San Mateo Examples
(Existing and Future)

Delaware Streetscape Project
- Reduced travel lanes
- Widened sidewalk
- Added Pedestrian Scale Lighting
- Added Class II bike lane
- Installed decorative bridge railing
- Green Streets

Reduced Travel Lanes (Road Diet)

Before

After
Green Streets

Before

After

Delaware Streetscape Project

Bay Meadows II Development

Bay Meadows II Development Green Streets
Bay Meadows II Development Green Streets

Laurel Elementary Safe Routes to School and Green Streets

Laurel Elementary School Safe Routes to School

Laurel Elementary School Safe Routes to School