NEW
FLOWSTOBAY.ORG
WEBSITE +
"GREENSUITE"
DESIGN GUIDES

Reid Bogert - Stormwater Program Specialist

City/County Association of Governments

rbogert@smcgov.org



SAN MATEO COUNTYWIDE

Water Pollution Prevention Program

Clean Water. Healthy Community. www.flowstobay.org

Contact







ABOUT FLOWS TO BAY

PREVENTING STORMWATER POLLUTION

DATA & RESOURCES

GET INVOLVED

PERMITTEES





- Streamlined Design
- Restructured Content
- New Content
- Added Features
- Permittee Content







ICONS + GRAPHICS



ABOUT FLOWS TO BAY

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DEPMITTEE

SEARCH SITE

Search ...

SEARCH

QUICK LINKS

ATTEND A COMMUNITY EVENT

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« All Events

ReScape Maintenance Qualification Renewal Training (Online)

June 18 @ 8:30 am - 3:30 pm

Online ReScape Maintenance Qualification Renewal Training

\$220 (includes 2-year membership)

\$265 (includes 2-year membership plus Directory Listing)

Training Discounts & Scholarships During COVID-19 – We understand this is a difficult time for many, thus we are offering \$100 discounts on our design and maintenance qualification trainings. Use the discount code "**RESILIENCE**". Additionally, limited **scholarships** are available for participants in Sacramento County and employees of **StopWaste Member Agencies**.

Open to any and all current or formerly qualified ReScape Qualified Professionals in Landscape Maintenance. Please reach out to info@rescapeca.org with questions about your qualification status.



- · Refresh your skills
- · Get the latest best practices from field experts
- · Join like-minded professionals regenerating our landscapes

CLEAN LAYOUT/QUICK LINKS

COLOR CODING



English / Español / 中文 / Tagalog

Events Calendar

Contact

Blog

Q Search









ABOUT FLOWS TO BAY

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0

PERMITTEES

MAPS

- Green Infrastructure Story Map
- Municipal TrashGeneration Maps
- > SRP Web Viewer
- Watershed Map

PLANS

- Stormwater ResourcePlan
- Sustainable StreetsMaster Plan

REPORTS

- ➤ Annual Report
- ➤ Funding Source Analysis & Recommendations
- Reasonable Assurance
 Analysis Green
 Infrastructure
- > Studies & Research
- Urban Creek Monitoring Reports

RESOURCES

- ➤ C.3 Regulated Projects
- Green InfrastructureDesign Guide
- Major Creeks Of San Mateo County
- Municipal Regional Permit
- Outreach Materials
- Presentations & Workshops



Projects Guide

For use by developers, builders and project applicants to design and build low impact development projects

Version 1.0 | January 202



an Mates Countywide Water Poliution Prevention Program 2020. All rights reserv





ABOUT FLOWS TO BAY

PREVENTING STORMWATER POLLUTION

DATA & RESOURCES

GET INVOLVED



COMMITTEES

- ➤ Commercial, Industrial, and Illicit Discharge (CII)
- ➤ Green Infrastructure (GI)
- Municipal Maintenance (MM)
- New Development (ND)
- > Parks Maintenance & Integrated Pest Management (Parks/IPM)
- > Public Information and Participation (PIP)
- ➤ Technical Advisory Committee (TAC)
- > Trash Control
- > Watershed Assessment and Monitoring (WAM)

RESOURCES

- Annual Report Guidance
- > Archive of Annual Report Guidance
- > Managing PCBs In Building Materials During Demolition
- > Visual Trash Assessment Database



RESTRUCTURED CONTENT



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SEARCH

QUICK LINKS

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CONTACT

ADOUT FLOWS TO DA

Mulching



If you haven't replaced the mulch in your backyard lately, do it now. It reduces water loss, keeps nutrients in the soil, and—bonus points!—prevents wee

Share Your Project With Us!

If you have one of the water-wise outdoor projects described on this page, let us know. Share your story and pictures with us by filling out the form below. We'd love to feature your project and share it with San Mateo County residents.

	· , - · · · · · · · · · · · · · · · · ·	
Name *		
First	Last	
Email *		

NEW CONTENT

Water Wise Projects (example to right) + Nominate a Community Champion

Maps/Plans/Reports/Resources

Stormwater Resources Plan

GI Story Map

Sustainable Streets Master Plan

RAA Reports (coming)

Annual Reports

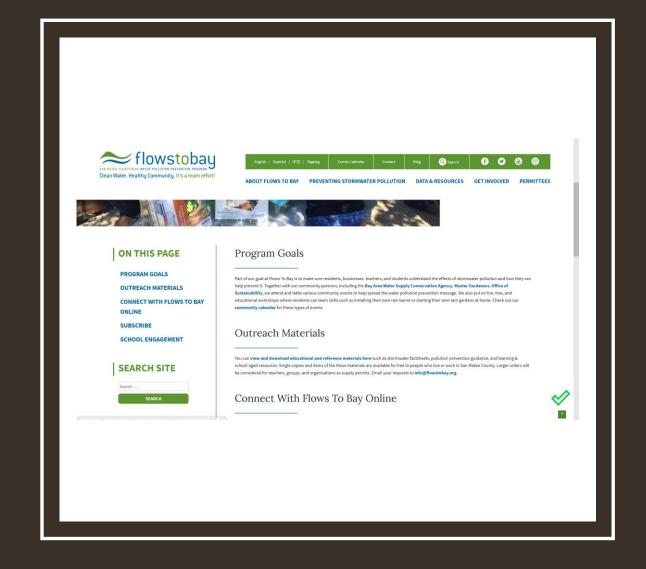
Resources

C.3 Regulated Projects Guide + Green Infrastructure Design Guide

English **San Mateo County Project Prioritization** 🔎 🔎 Object identification: Active Layer 🔻 🔚 🔚 🔓 🚰 🔪 🕡 nfo and Tools Map themes ap Layers San Mateo County Project Prioritiza County Stormwater Dataset outfa County Boundary City Boundaries Streams (National Hydrology Da Implemented GI Projects Flood Resiliency Plan Projects Flood Prone Streams Storm Drains LID Projects Prioritized Green Streets prioritized Regional Projects Prioritized Erosion Hazard (Yr 2100) Regional Project Drainage Areas Sea Level Rise 100 Sea Level Rise 200 Major Creek Watersheds FEMA 100-yr Flood Plain Major Creek Watersheds Subwatersheds Storm Drain Catchments Storm Drain Outfalls Groundwater Basins Background Layers ✓ Bing Satellite Bing Roads Bing Gray Canvas Google Satellite Google Map © 2020 Microsoft Corporation Earthstar Geographics SIO

ADDED FEATURES

- Sticky navigation bar
- Collapsible content
- "Back to top" anchors
- Easy translation button
- "Fit to window" content design for mobile and desktop



PERMITTEES PAGE

- Single SMCWPPP Permittee login-in (submit log-in request form)
- Committees same structure with drop-down menus
- Resources Annual Report Guidance, PCBs/Demo Data, OVTA database





"GREENSUITE"

C.3 Regulated Projects Guide (updated "C.3 Technical Guidance")

Mostly for terminology consistency + addressing permittee questions and comments on specific technical guidance for regulated projects

New Green Infrastructure Design Guide

Focus on design for GI on "sustainable streets," buildings and sites

Updated Operations + Maintenance guidance and checklists

Provides 30,000 ft view on advancing green stormwater infrastructure

Developed in an interactive PDF format for easy navigation

C.3 REGULATED PROJECTS GUIDE





C.3 Regulated Projects Guide (Version 1.0) (February 2020)

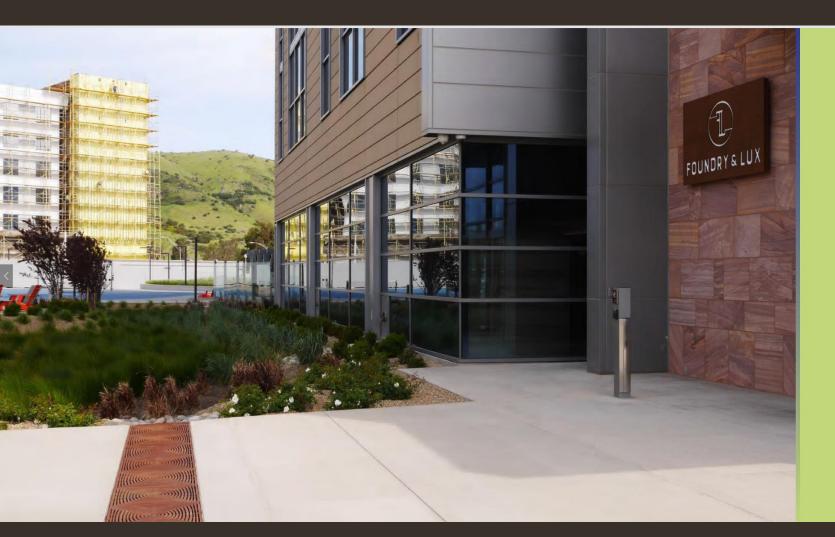
Table Of Contents Of The C.3 Regulated Projects Guide (Version 1.0)

- + Flyers & Fact Sheets
- + Forms & Checklists
- + Hydromodification Management (HM) Requirements
- + Additional Resources & Information

Edit

^

GI DESIGN GUIDE



Chapter 2

Green Infrastructure Measures and **Opportunities**

- 2.0 Introduction
- Stormwater Planters
- Stormwater Curb Extensions
- Rain Gardens
- Green Gutters
- 2.5 Tree Well Filters
- 2.6 Stormwater Trees
- Trees in the Landscape
- Infiltration Systems
- Pervious Pavement
- Green Roofs
- Green Walls
- Rainwater Harvesting
- **Vegetated Swales**

[◀] This rain garden at The Cove at Oyster Point collects stormwater from both building and parking lot surfaces. Photo Credit: Urban Rain | Design

DESIGN INSPIRATION

1.0 Introduction

3.0 Strategies & Guidelines

4.0 Design & Construction

5.0 Implementation

6.0 Operations & Maintenance

7.0 Appendices

Design Strategies and Guidelines

Buildings and Sites Design Examples for San Mateo County



▲ EXISTING: A typical high-density residential home front yard in San



▲ EXAMPLE: An example high-density residential building captures roof runoff and features low-water plant communities.

High-Density Residential Stormwater Planter Example

Many new high-density/mixed-use development projects continue to be built in San Mateo County. These building sites maximize the development's footprint, however, there is often landscape space dedicated along the perimeter of the building that is also in proximity of roof downspouts. The downspouts can be disconnected into either raised or recessed stormwater planters. Some development projects are already utilizing stormwater planters next to buildings, while others, such as the retrofit opportunity shown below, can modify the landscape to accept stormwater runoff.



▲ RETROFIT OPPORTUNITY: The same high-density residential yard that disconnects roof downspouts and converts existing landscape areas into a stormwater planter with drought-tolerant landscaping.

High-Density Residential Rain Garden Example

For some high-density residential buildings, adding a more dynamic rain garden landscape where space is available can help change the character of the site and provide a more functional space for the residents. This example illustrated below converts the existing lawn space into a rain garden with an integrated boardwalk and seating area. The roof downspouts direct runoff away from the building foundation to the rain garden using metal channels.



▲ RETROFIT OPPORTUNITY: The same high-density apartment complex that converts perimeter grass and landscape areas into a rain garden with drought-tolerant landscaping. Roof downspouts direct water into the rain garden.



▲ EXISTING: A typical lawn space next to an apartment complex in San



 EXAMPLE: An example high-density residential rain garden captures roof runoff and features a boardwalk overlook and seating area.

A 3 Appendix 3

Sustainable Streets Typical Design Details



The following index lists the typical construction details and provides active links to their PDF versions and CAD files. If printing the following construction detail PDFs, lower page number ribbons and color blocks are for organization only and will not print.

The User must verify that the correct version is being used as is required by each jurisdiction, and the most current version is being used for your project, as is required.

Legend
SFPUC GI Typical Details — 2016
SMCWPPP Typical Details not in SFPUC Typical Details
SMCWPPP Typical Details Modified From SFPUC Typical Details

Sustair	able Streets Typical Details	SMCWPPP Typical Details not in SFPUC Typical Details	SMCWPPP Typical Details Modified From SFPUC Typical Details	Jump to PDF	Jump to CAD
GEN 0.1	User Guide			→	0
	Permeable Paving				
PP 1.1	Designer Notes (1 of 2)			→	
PP 1.2	Designer Notes (2 of 2)			→	
PP 1.3	Key Map			→	CA.
PP 2.1	Material Sections - Permeable Unit Pavers			→	
PP 3.1	Material Sections - Pervious Concrete			→]
PP 4.1	Material Sections - Porous Asphalt			→	
	Pavement Components				
PC 1.1	Edge Treatments - Designer Notes			→	
PC 1.2	Edge Treatments - Key Map			→	1
PC 1.3	Edge Treatments - Vehicular Applications			→	
PC 1.4	Edge Treatments - Pedestrian Applications (1 of 2)			→	Ì
PC 1.5	Edge Treatments - Pedestrian Applications (2 of 2)			→	
PC 1.6	Edge Treatments - Paver at Structures			→	C/A
PC 2.1	Subsurface Check Dams - Designer Notes			→	100
PC 2.2	Subsurface Check Dams			→	[
PC 3.1	Subsurface Overflows - Designer Notes			→	
PC 3.2	Subsurface Overflow			→	[
PC 3.3	Subsurface Underdrain			→	[
PC 3.4	Underdrain Pipe			→]

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BP 1.2	Designer Notes (2 of 2)			→	
BP 2.1	Roadside Planter with Parking - Plan			→	
BP 2.2	Roadside Planter with Parking - Sections			→	
BP 3.1	Roadside Planter without Parking - Plan			→	
BP 3.2	Roadside Planter without Parking - Sections			→	
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BP 4.2	Roadside Bulbout Planter - Alternative 2			→	
BP 4.3	Roadside Bulbout Planter - Alternative 3			→]
BP 4.4	Roadside Bulbout Planter - Alternative 4			→	
BP 4.5	Roadside Bulbout Planter - Alternative 5			→	
BP 4.6	Roadside Bulbout Planter - Alternative 6			→	
BP 5.1	Parcel Planter - Designer Notes (1 of 2)			→]
BP 5.2	Parcel Planter - Designer Notes (2 of 2)			→	
BP 5.3	Parcel Planter Plan - Alternative 1			→]
BP 5.4	Parcel Planter Plan - Alternative 2			→	
BP 5.5	Parcel Planter - Raised Planter Section			→	
BP 5.6	Parcel Planter - At Grade Planter Section			→	
BP 5.7	Parcel Planter - Planter on Structure Section			→	
	Bioretention Basin				
BB 1.1	Designer Notes			→	
BB 2.1	Roadside Section, Type 1		X	→	1
BB 2.1.1	Roadside Section, Type 2	Х		→	



APPENDICES/LINKS TO DESIGN DETAILS

CAD FILES OF DETAILS



SEARCH

QUICK LINKS

ATTEND A COMMUNITY EVENT

READ OUR BLOG

REPORT ILLEGAL DUMPING

SIGN UP FOR OUR E-NEWSLETTER

CONTACT

+User Guide

+Permeable Paving

+Pavement Components

+Bioretention Planter

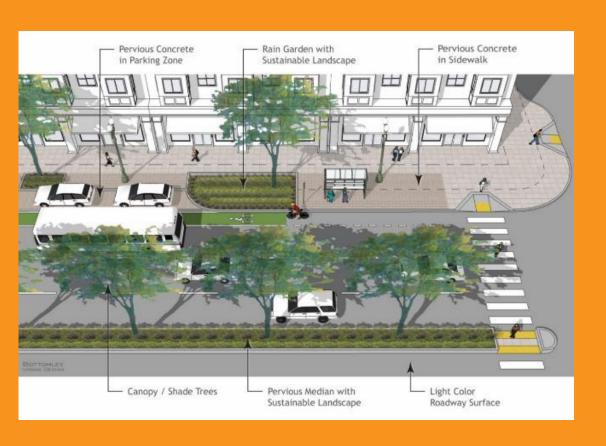
+Bioretention Basin

+Bioretention Components

+Surface Infiltration

+General Components

SUSTAINABLE STREETS MASTER PLAN

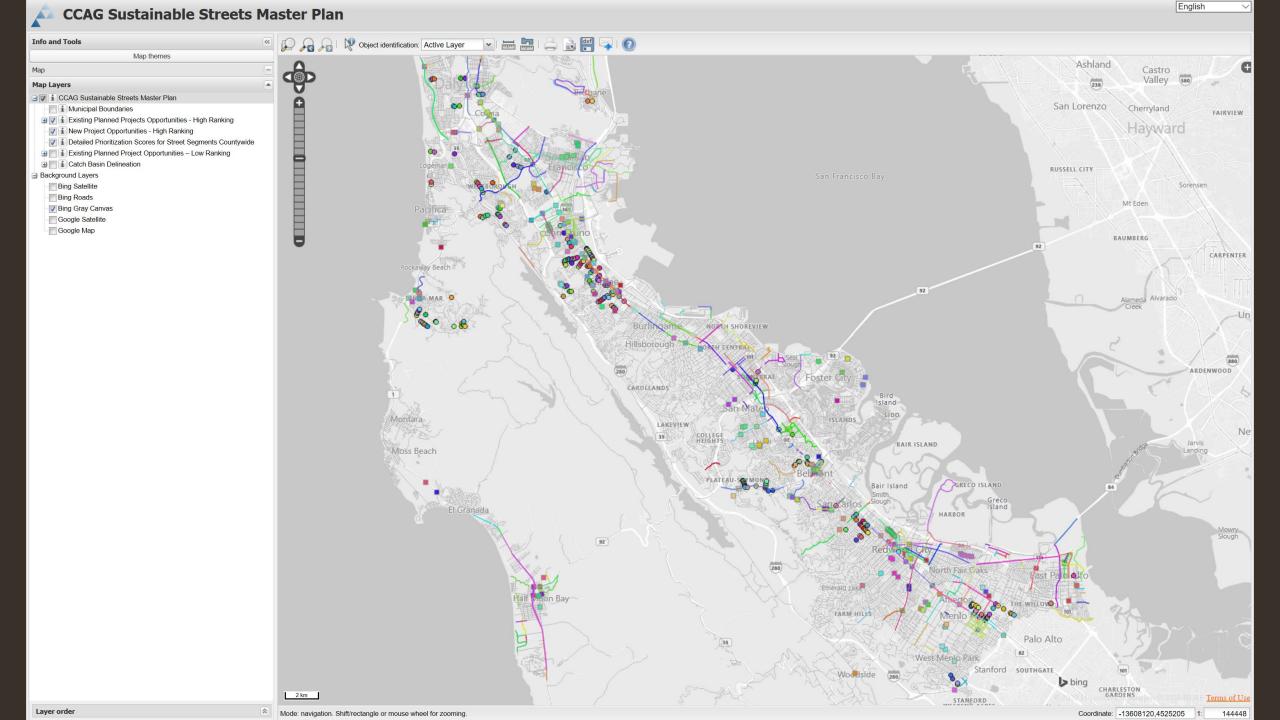


Project Goals

- Countywide Master Plan with Prioritized Projects
- Climate Change Modeling for SMC
- Conceptual Designs
- Model Sustainable Streets Policies
- High Resolution Drainage Mapping
- Web-Based Tracking Tool
- Community Engagement

PRIORITIZATION DELIVERABLES + MUNICIPAL REVIEW

- SSMP Project Prioritization Review Tables and Online Viewer
 - Existing planned opportunities (ranked according to stormwater feasibility and cobenefits)
 - New opportunities (intersection opportunities near transit stops or schools and on streets with low PCI scores)
- Stormwater Curbextension Feasibility Tool (desktop analysis)
- Project Concept Proposal Spreadsheet (up to two proposals per jurisdiction)
- Comments + proposals due June 26



SMC CCAG Curb Ext Feasibility Tool_May2020.pdf

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Recommended for Curb Extension

SW CURBEXTENSION FEASIBILITY TOOL