

# Green Streets Cross-Bureau Effort Phase 2



# Cross Bureau Effort



SW 12<sup>th</sup> and Montgomery

- Multi-Bureau Team
- Two Phases: Fall 2005 and Winter 2006
- Charge: Programmatic Approach to Implementation of Green Streets
- Resolution: to Adopt Report and Citywide Policy



# Natural System Approach to Stormwater Management



SE Division



# Green Street:

A Vegetated Facility that manages stormwater on site.....

- Water Quality Benefits
- Replenishes Groundwater
- Creates Attractive Streetscapes
- Enhances Pedestrian Safety
- Improved Bicycle Access
- Serves as an Urban Greenway
- Increases Community / Property Value



# Opportunities and Challenges



## Opportunities:

- Outreach
- Technical Guidance
- Stormwater Master Plan

SE 56<sup>th</sup> and Ankeny

# Opportunities and Challenges



## Challenges:

- Maintenance Clarification
- Issues related to nearby infrastructure
- Resources

SE Tibbets

# Green Street Policy

- Infrastructure Projects
- Project Planning and Design
- Project and Program Funding
- Outreach
- Project Evaluation



Tabor Middle School

# Other Products and Outcomes

## Outreach



- Facility Markers
- Property Owner Notification
- Green Street Newsletters
- Presentations and Materials



# Other Products and Outcomes

## Maintenance Policy

## Technical Specification Sheets



NOTES:	
1. See City of Portland Standard Construction Specifications Section 00415 - Vegetated Stormwater Facilities.	
2. Width of planter: 3' minimum from inside curbs	
Length of planter based on engineering calculations; maximum, 12' minimum.	
Depth of planter: 12" max. from top of curb to top of soil.	
3. Longitudinal slope of planter matches road, flat, as possible, 3% maximum. Longitudinal and cross slope of soil within planter; none, flat as possible. (Typical cross slope of road 2-6%, cross slope of gutter 8%).	
4. Special requirements may be necessary on steep slopes & for planters designed to include disposals.	
5. Include beginning and ending station elevations for each facility. Provide the top and bottom elevation of facility at each station specified. Include elevations at every inlet and outlet.	
6. Sidewalk elevation must be set above inlet and outlet elevations to allow overflow to drain to street before sidewalk.	
7. Inlets and outlets required: See sheet D-3 for details.	
8. Check dams may be required: See sheet F-1 for details.	
9. Special soil and planting requirements: See sheets P-1, P-2 & P-3 for details.	
10. Special requirements for water lines, meters, and fire hydrants. See sheet W-2 for details.	
11. Depending on location, utility lines may need to be sleeved.	
12. Curb and Gutter: ODOT Standard Detail D 700. Use 2" gutter without bike lanes.	

**IMPORTANT:** Utility conflicts and existing conditions can create major design variables. Locate utilities and survey existing conditions prior to beginning design work.

The Portland Department of Transportation (PDOT), Portland Water Bureau (PWB), and Bureau of Environmental Services (BES) are responsible for the review and approval of Stormwater Swales in the public right of way. Stormwater facilities in *Well Field Protection Areas* may require special containment measures.

For more information contact:  
PDOT (503) 823-7884  
PWB (503) 823-7368  
BES (503) 823-7189

VEGETATED STORMWATER FACILITIES IN THE PUBLIC RIGHT-OF-WAY	
SHEET NUMBER	
3	
FILE NUMBER SWAT009 Mar 01, 2007 - 107pm - BES/SC	
TITLE	
PLANTER	
-With Parking -	
APPROVED	2/16/07
SUPERVISOR	2/16/07
CITY ENGINEER	2/16/07
CITY ENGINEER'S SIGNATURE	2/16/07
DATE	2/20/07
CHIEF ENGINEER	2/20/07
CHIEF ENGINEER'S SIGNATURE	2/20/07
DATE	2/20/07

# Other Products and Outcomes (In Process)

Stormwater Masterplan for Gateway  
Central District

Green Street Profile Notebook with  
New Design Prototypes

EPA Funding Proposal



# Other Products and Outcomes (In Process)



Enhanced Multi-Bureau CIP Implementation

Peoples Food Co-op

# Other Products and Outcomes (In Process)



## Multi-bureau Green Street Project “Route to the River”

Be a part of the  
**Clay Street Green Street** project.

*Clay Street Project Area Map*



**G**reen Streets are landscaped curb extensions,

planter boxes or swales that collect stormwater runoff from streets. These facilities slow runoff and allow it to soak into the ground, while plants and soil filter pollutants.

Green Streets also create attractive streetscapes and urban greenways that connect neighborhoods, streets and parks, and can incorporate bike and pedestrian safety improvements.



*Streetender Photos: SE 12th and Montgomery Street*



*Streetender Photos: SE 12th and Montgomery Street*

The City of Portland proposes to work with the community to develop a green street demonstration project on several blocks of SE Clay Street from Water Avenue to SE 12th Avenue. The project is an opportunity for the city to create new partnerships and achieve several community benefits while preserving the unique freight needs of the area.

The city is in the process of forming community partnerships and searching for potential funding sources for the SE Clay Green Street Project.

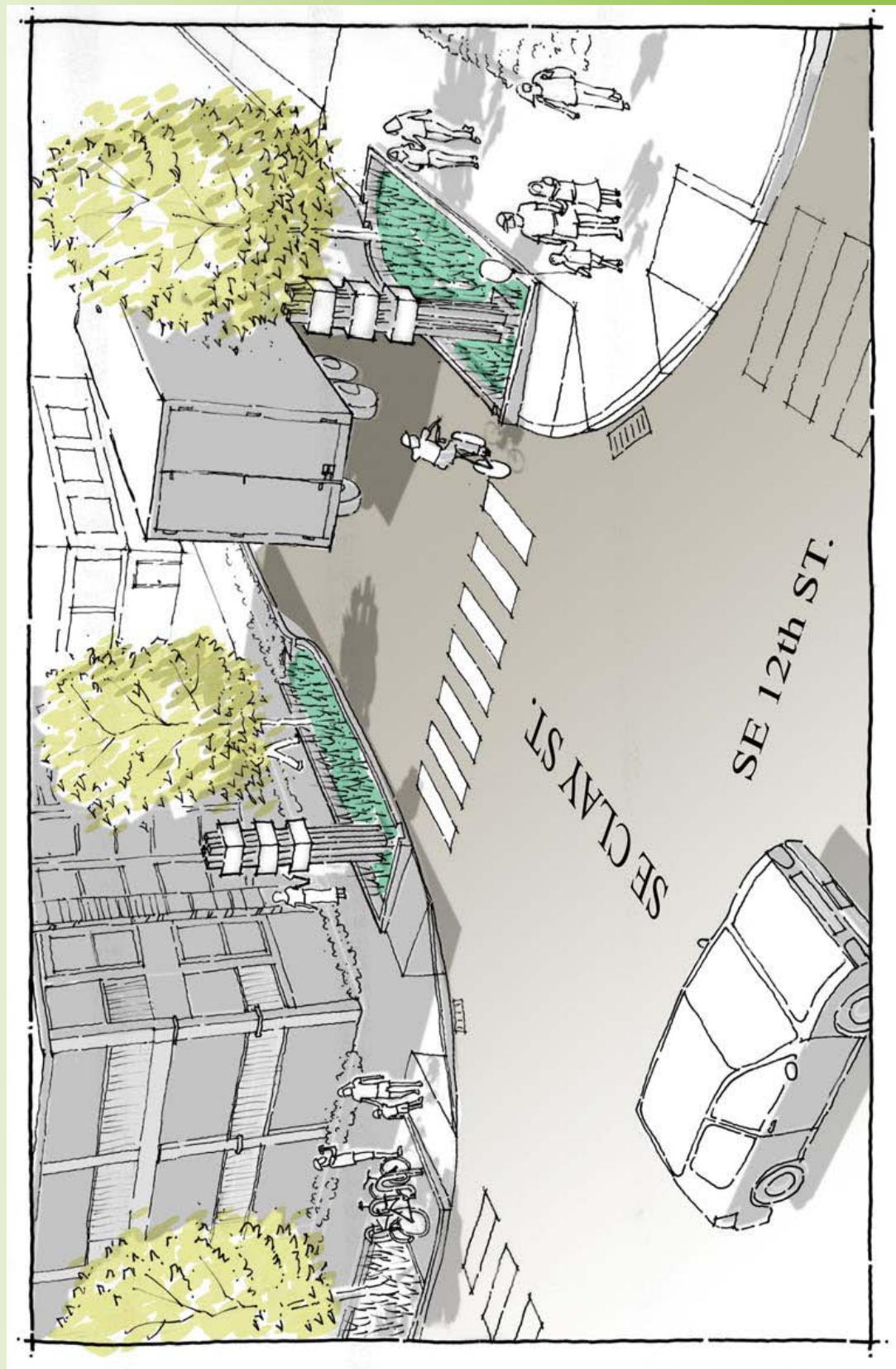
For more information call Environmental Services, Rheta Driemann at 503-823-6006.

[www.cleanriverspdx.org](http://www.cleanriverspdx.org)



Port of Portland Commissioner, Diane Marlowe, Director  
To help prevent illegal dumping in our waterways, services and activities, the City of Portland Environmental Services and Portland Parks and Recreation are providing educational outreach to prevent waste discharges. Call 503-823-6006 for more information.

# SE 12<sup>th</sup> and Clay St. Gateway



# New Project

NE 21<sup>st</sup> and Sandy



# New Project

NE 22<sup>nd</sup> and Sandy

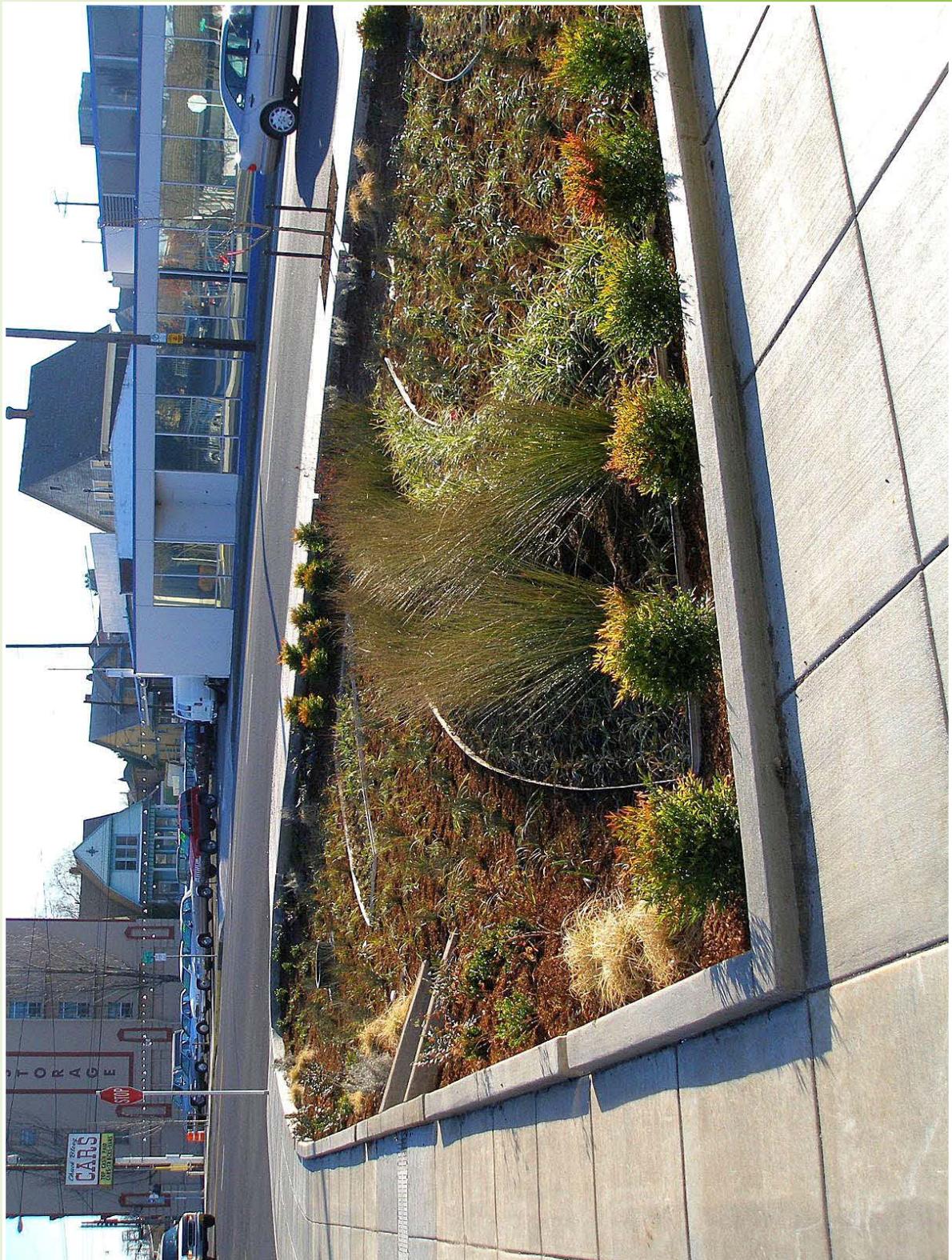


ENVIRONMENTAL SERVICES  
CITY OF PORTLAND  
1120 SW Fifth Avenue, Room 1000  
Portland, Oregon 97204-1912



# New Project

NE Sandy and Davis



## New Columbia



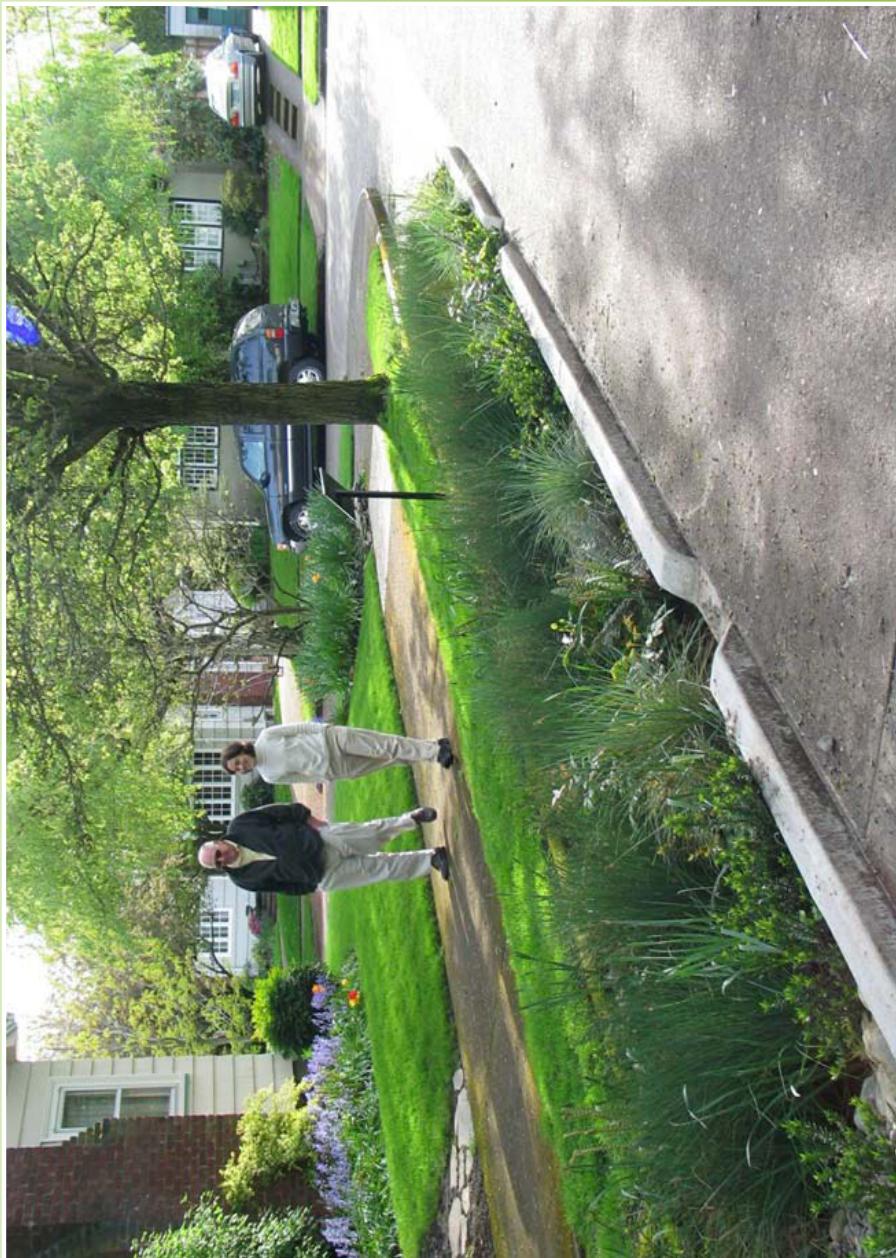
# New Project



# The irony...



“We love our street garden.”



Mike Lindquist  
NE Siskiyou Green Street Neighbor

