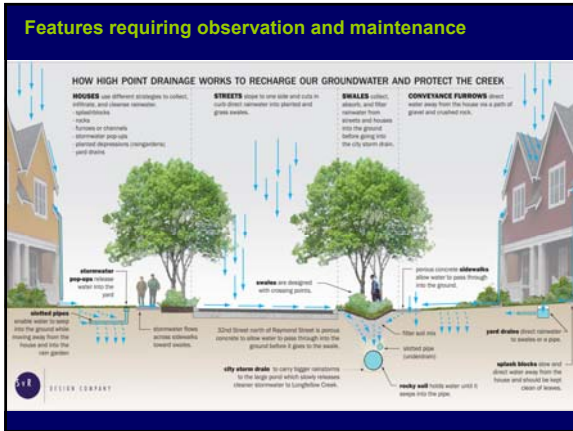




What makes natural drainage strategies different?

Figure 5

- Collaboration is a necessity
 - Owner, design team, AHJ
 - **AND NOW Maintenance**
- Think differently
 - Keep stormwater "out of jail"
 - Keep it dispersing into the soil
- Site maintenance
 - Layout
 - Space / edges
 - Dual function
 - Use of open space
 - Trade offs
- Cost shift
- Expectations (not manicured)



High Point Natural Drainage Strategies Housing: Block-level Design

Gravel Pave

Pop Up Emitter

Splash Blocks

Review the change in 2 years

Before

2004

2006

Broadview Green G

Seattle: Denny Way Apartments: January 2006

Commissioning

Ground covers- density at planting to achieve early coverage



May 2001



July 2002



Late May 2005

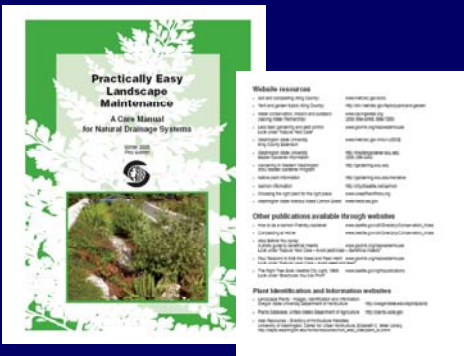


April 2005

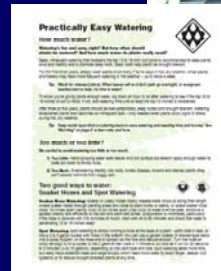
Natural Systems

Building Partnerships
with Neighborhoods

Single Family- education
Homeowner Associations- education
and training of maintenance crew

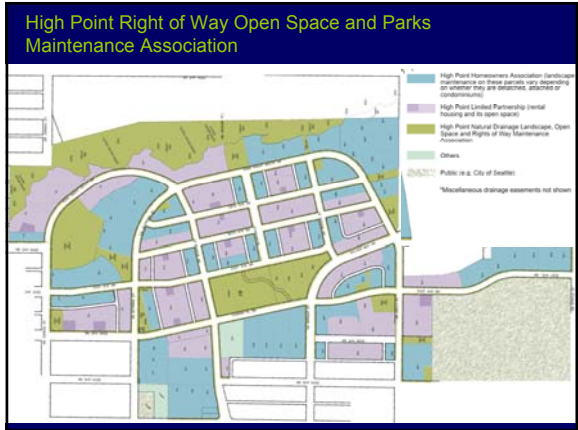


Homeowners Manual Watering



PLANT IDENTIFICATION

Go to www.seattle.gov/util/About_SPU/Drainage_& Sewer_System/Natural_Drainage_Systems/Natural_Drainage_Overview/index.asp
look under "Homeowners Manual"/ "Plant ID"



High Point Community: Right of Way Maintenance Guidelines

Right of Way Maintenance Schedule At-A-Glance

Month	At/Abovegrade	Belowgrade	SE	NE	SW	EW
January	Check	Check	Check	Check	Check	Check
February	Check	Check	Check	Check	Check	Check
March	Check	Check	Check	Check	Check	Check
April	Check	Check	Check	Check	Check	Check
May	Check	Check	Check	Check	Check	Check
June	Check	Check	Check	Check	Check	Check
July	Check	Check	Check	Check	Check	Check
August	Check	Check	Check	Check	Check	Check
September	Check	Check	Check	Check	Check	Check
October	Check	Check	Check	Check	Check	Check
November	Check	Check	Check	Check	Check	Check
December	Check	Check	Check	Check	Check	Check

- High Point Maintenance Guide (in progress)
 - Vegetated Swales
 - Grass lined swales
 - Special features
 - Trees and lawn
 - Tools
 - Attitude (natural landscape care)
- Healthy Homes
- Litter/ Debris
- Parks
- Pond
- Hillside Open space

Landscape Stormwater Strategies – A Practical Design Workshop

Designing, Building and Operating for Success

Questions & Wrap Up

Seattle Public Utilities
Seattle Department of Transportation
SVR Design Company
Chris Webb and Associates
Curtis Hinman, WSU Extension
UW Center for Urban Horticulture

January 26, 2006