Green Infrastructure in Austin, TX

Watershed Protection's Initiative to Pursue a More Sustainable Stormwater Future

Green Infrastructure Definition

- Green Infrastructure for stormwater management reduces impacts from the built environment using landscape features and engineered systems that mimic natural processes to:
 - Control the quantity and quality of runoff (Or in technical terms provide flow-rate attenuation, volume reduction, and water quality improvement).

Green Infrastructure Initiative

- Creation of Green Infrastructure Team
- COA sponsored green stormwater infrastructure
- Update Technical Manuals to provide guidance in using GI to meet WQ ordinance requirements
- · Outreach to homeowners and schools

Green Infrastructure Team

- Horizontally-aligned, multi-disciplinary team across WPD with goal of investigating and implementing optimal use of green and decentralized stormwater management practices
- Begin to consider stormwater as a resource, rather than a waste product

Green Infrastructure Team

- Create common body of knowledge amongst various disciplines
- Identify knowledge gaps or impediments to increased use of GI
- Develop work plans with objectives, deliverables, deadlines.
- Areas of focus: Technology, Maintenance, Regulation, Education/Outreach
- Benchmarking each of these areas against other national leaders

Green Infrastructure Team

- Technology Focus: Determine the feasibility of using decentralized GI (cisterns, rain gardens, VFS, blue roofs) to reduce runoff volume to reduce local flooding and improve water quality
- Regulatory Focus: Use WPO process to include code/criteria updates to remove barriers/create incentives for GI in new and redevelopment scenarios. Summer 2012
- Maintenance Focus: Create SOP for O&M of GI
- Outreach Focus: Gage public acceptance of Gl and explore opportunities for design assistance from private sector through neighborhood partnering program (Jessica Wilson 974-2446)

Current Initiatives Outside of GI Team

- City-Sponsored Retrofits
- · Regulatory Design Criteria
- Homeowner Rain Garden Outreach





2008-Austin Adopted Design Criteria for Green Infrastructure in New Developments

Approved Best Management Practices to Meet COA Water Quality Regulations

(WQV=First ½ +, drawdown in 48 hours)

- Biofiltration
- Rain Gardens
- Vegetative Filter Strips (VFS)/ VFS Disconnection of Imp. Cover
- Rainwater Harvesting
- Porous Pavement for Pedestrian Use













