

# GW Square 80

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previous  
conditions

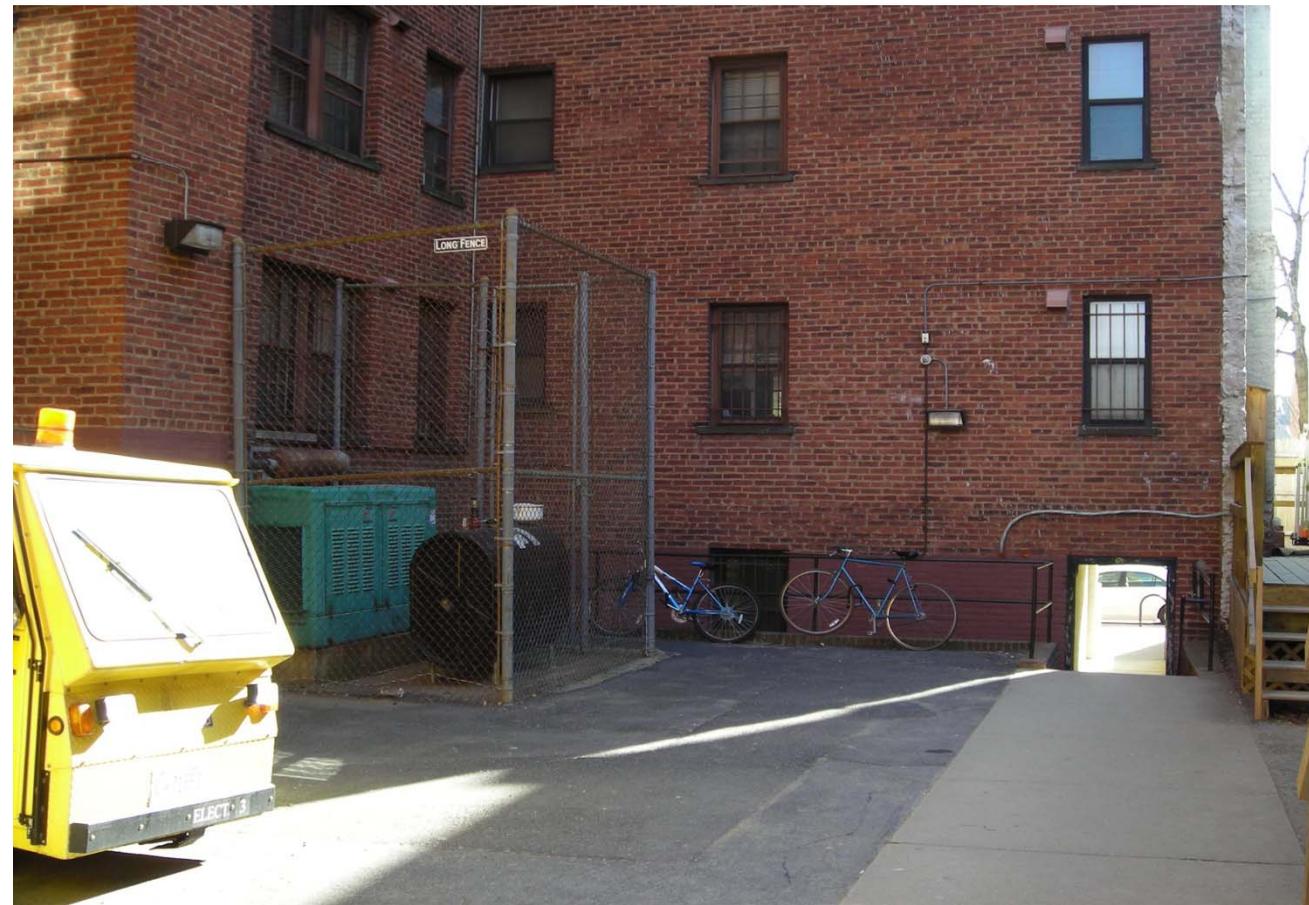


previous  
conditions





previous conditions





# objectives

open space

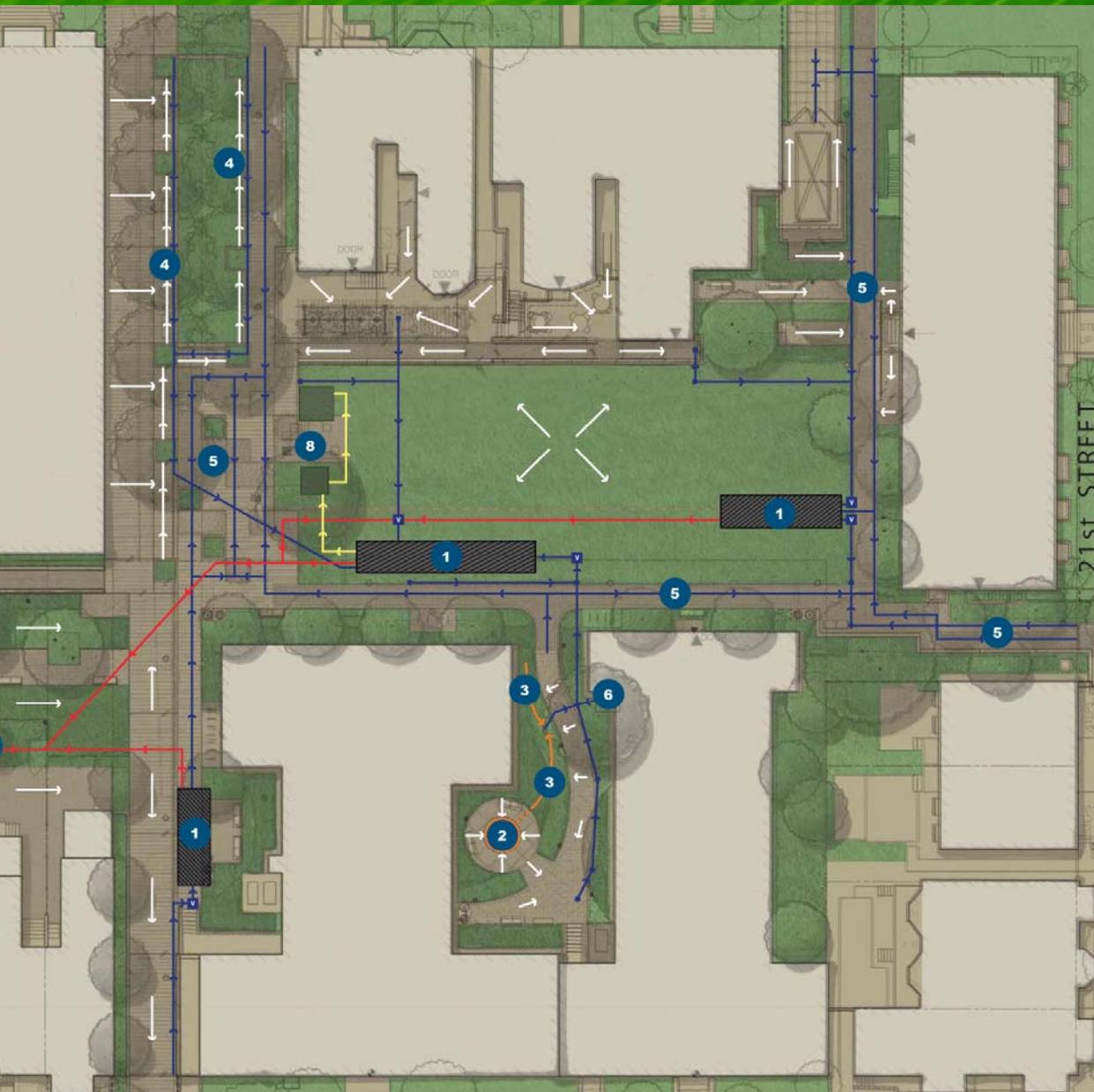
pedestrian circulation

outdoor classroom

sustainable design

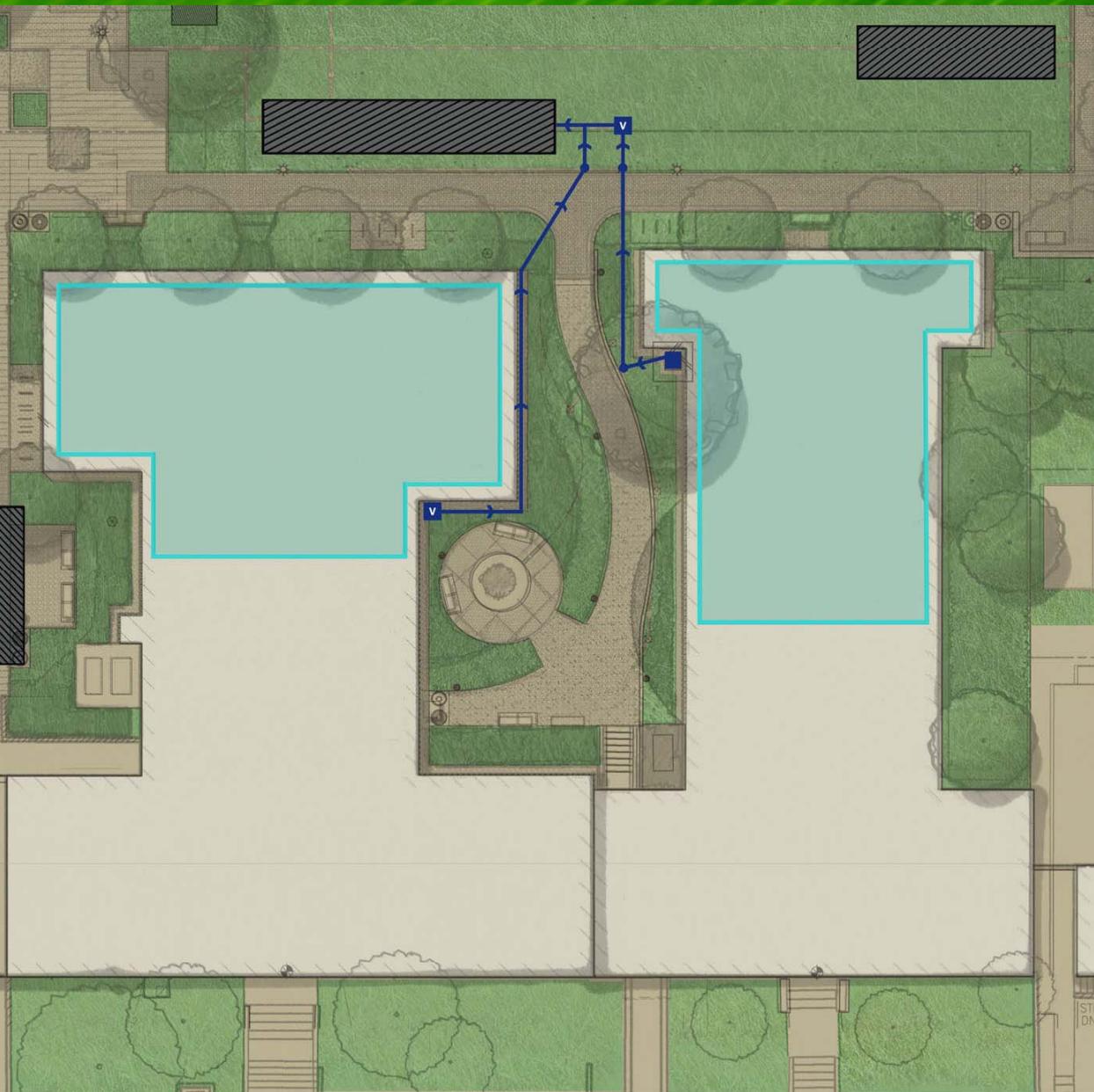
relocate trash collection

# rainwater harvesting

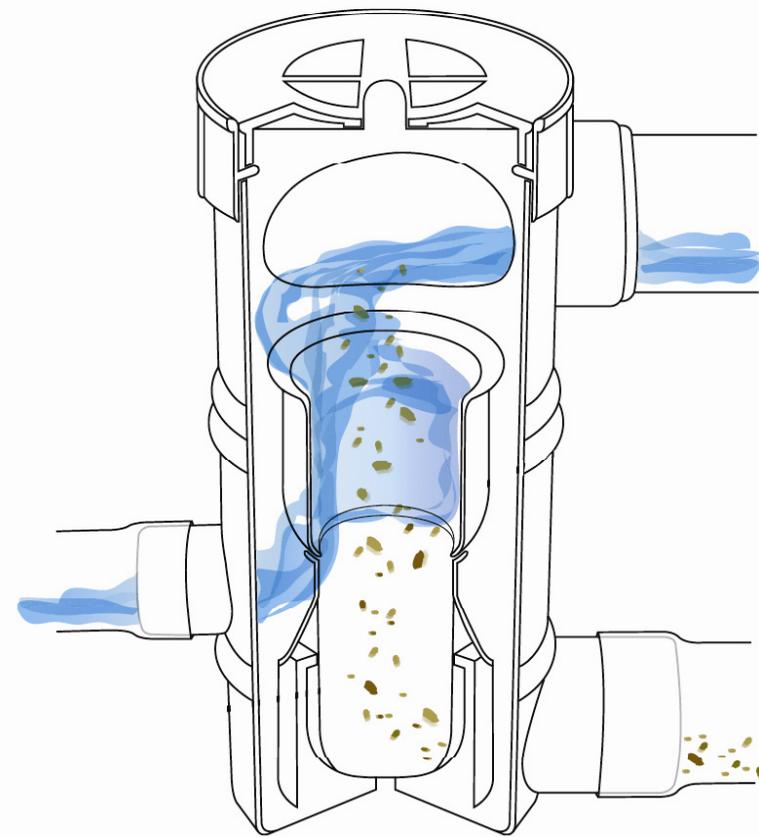


- 1 Cistern
- 2 Rain Garden
- 3 Bioswale
- 4 Biofiltration Planters
- 5 Pervious Paving
- 6 Rain Barrel
- 7 Irrigation Pump
- 8 Rainwater Fountain
- V Vortex Fine Filter Separator
- ← Surface Flow
- ← Bioswale Flow
- ← Stormwater Drainage to Cisterns
- ← Flow from Cisterns to Irrigation Well
- ← Flow from Cisterns to Fountain

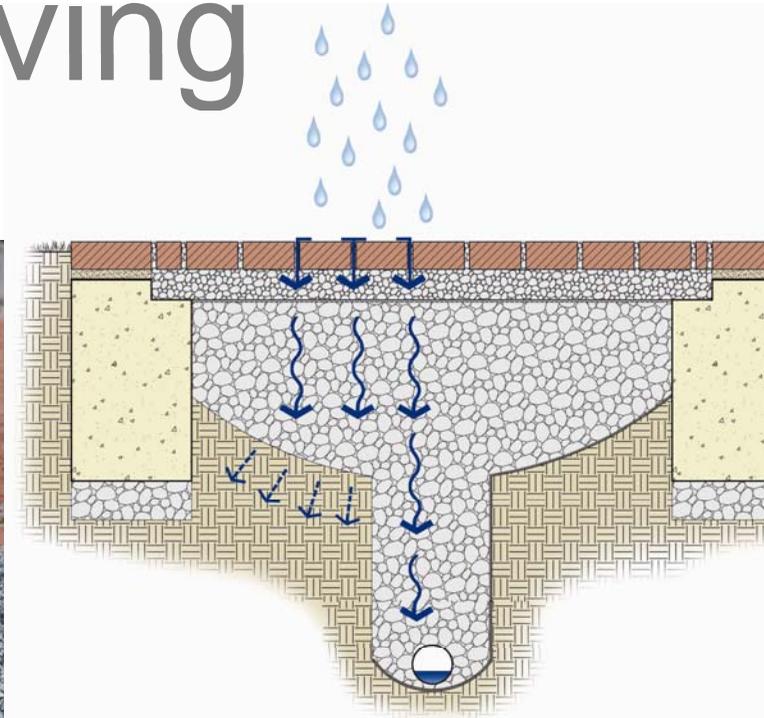
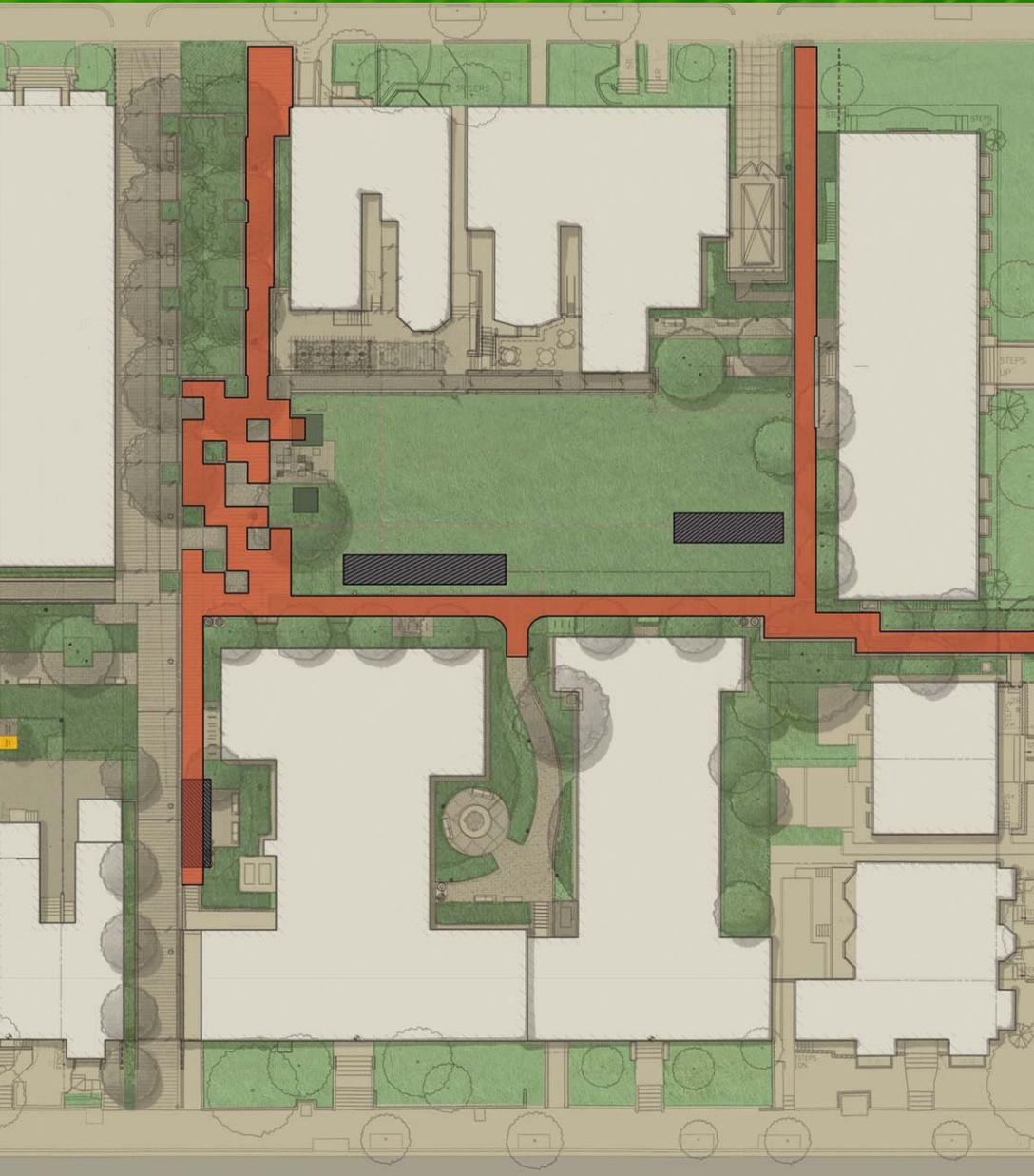


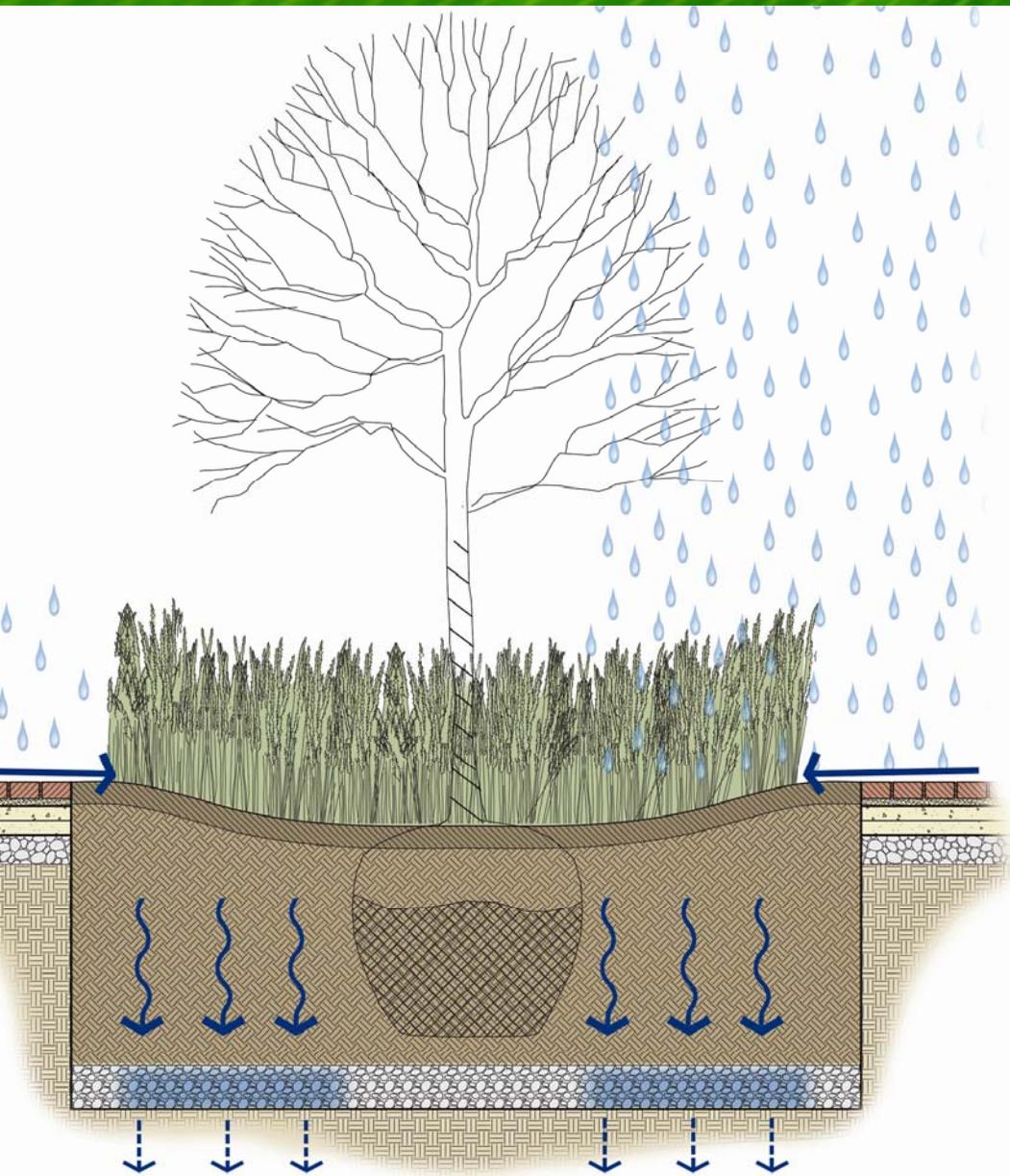


# roof water collection



# pervious paving



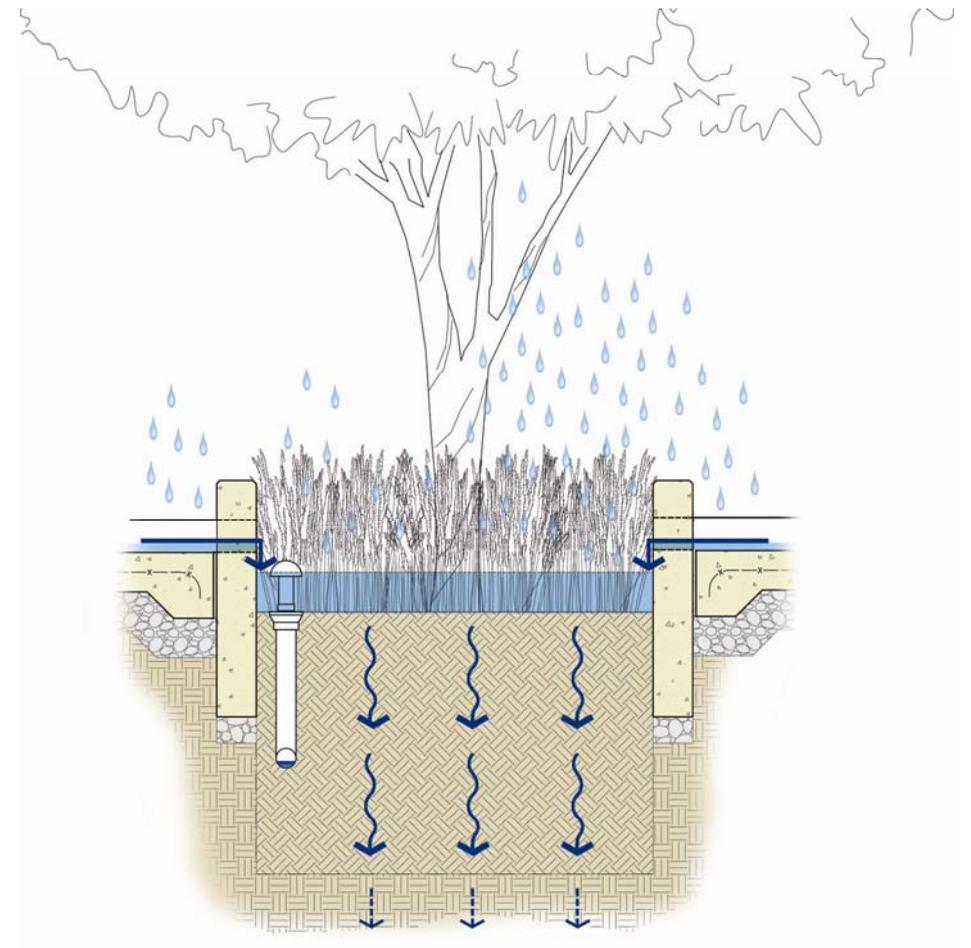


# rain garden + bioswale





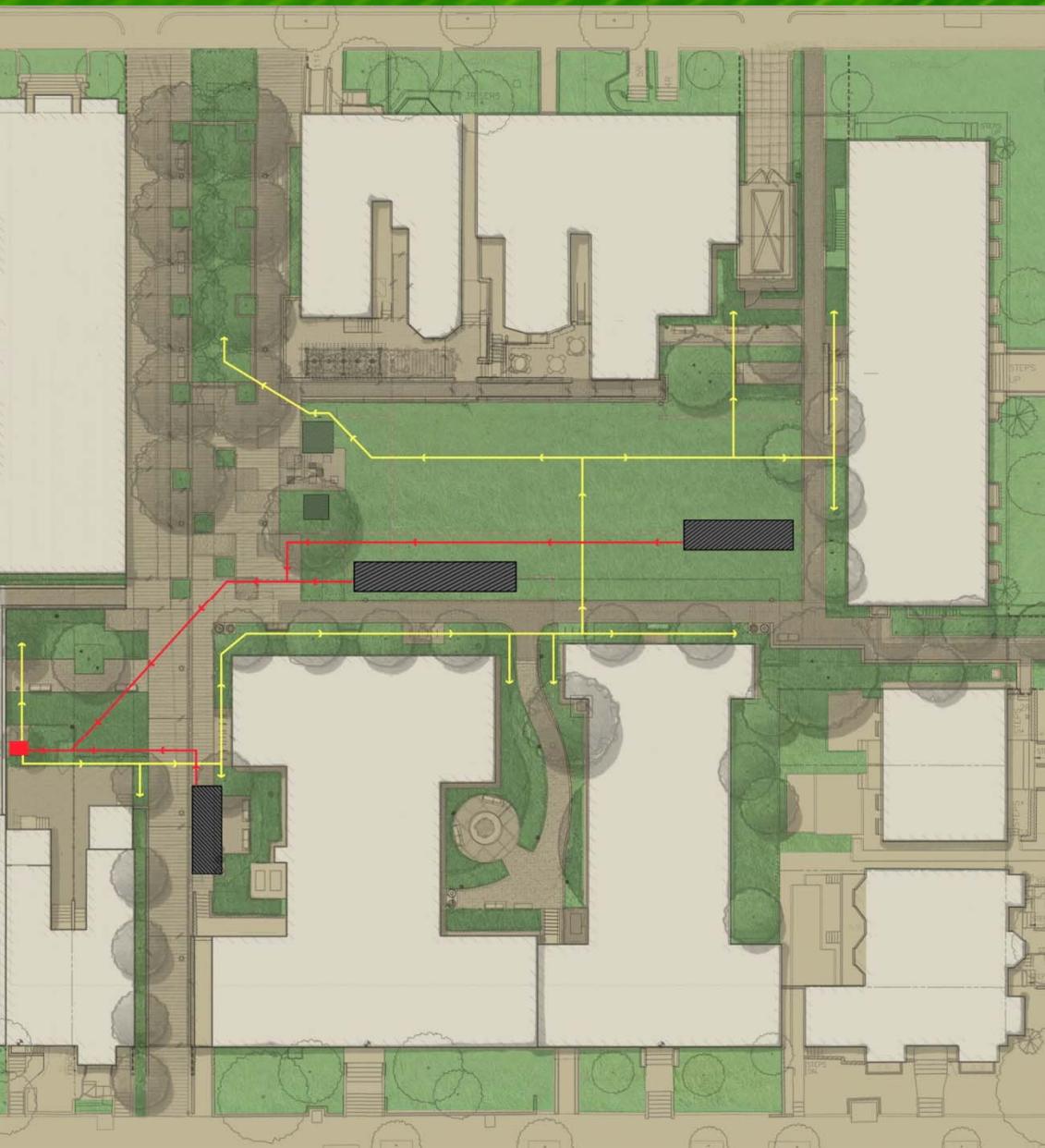
# biofiltration planters





# native plants





rainwater  
reuse





finished  
product



# project costs

Project budget: \$2,374,000

Construction budget: \$2,066,182

Change Orders: \$116,104 (5.95%)

Sustainable Change Orders: \$21,408 (1.10%)

Snow Removal: \$16,923

Sustainable Costs: \$296,400 (14.35%)

Maintenance Contract: \$14,981



# project schedule

Set completion date for fall

Coordinate grass supply date

Lead time on cisterns

Lead time on fountain equipment

Pervious paver supply and delivery



# conclusions

account for landscape establishment periods

sizing and designing the cisterns

jurisdictional concerns

grass selection process

project completion date

monitoring of irrigation schedule



# Sustainable Sites Initiative (SITES™)

- First national rating system for sustainable landscapes
- One of 150 projects selected to participate in a 2 year pilot program ending June 2012; 12 projects in DC
- Nine areas of evaluation – Site Selection, Pre-Design Assessment & Planning, Water, Soil & Vegetation, Mat'l Selection, Human Health & Well-Being, Construction, O&M, Monitoring & Innovation
- A 4-Star rating system - 15 prerequisites / 51 optional credits totaling 250 potential points (100 = 1-star)