Rainwater Harvest System for ARC Water Garden Project

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ARC Water Garden Project

- Rainwater harvest
- Condensate water
- Permeable pavers
- CU soil
- On-site uses for collected water
- Water management
ARC Water Garden Project

Project partners
Minick Materials
Continental Ponds
PLAN-IT Landscape
Absolute Lawn
Aquascape
Belgard Environmental
Warren Caterpillar
OSU-Oklahoma City, PLANET students
Agriculture Resource Center
Landscape Concept
ARC Water Garden Project

- 17,300 S.F. roof surface area
- Two 3,700 gal. underground storage vaults
- 1600 S.F. permeable pavers
- 110 C.Y. engineered CU soil
ARC Water Garden Project

- Water matrix blocks
  - $3.50 per cubic foot retail
  - $7.00 per cubic foot installed
- Pond liner – 60 mil
  - $.77 per square foot retail
- Pumps
  - $250 to $700 retail
- Stone, paving, media, geotextile fabric, electrical, irrigation, plant materials, etc.
Rainwater Harvest Systems

Applications

Residential
Commercial
Institutional
Municipal
Rainwater Harvest Systems

Benefits

- Rainwater collected, stored, re-used
- Water retained on-site. Some relief to municipal stormwater management system
- Collected water available for use in the landscape
Rainwater Harvest Systems

Other practical applications

Collect parking lot runoff

Create rainwater garden, pre-filter runoff, attenuate flow

Allow groundwater recharge
Rainwater Harvest Systems

Questions/Discussion