

Building Water Sustainability

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Kathy Nguyen
Cobb County Water System*



Why Worry about the Future?

- The present seems daunting
 - Water Resources Challenges all over the country
 - Climate Changes – Drought and Flood Patterns
 - Legal Challenges
 - Over Allocated Resources
 - Environmental Challenges
 - Competing valid needs for a single resource



Because We Have to...

- There will be increased population
- Increased demand on the resource
- The variable climate makes supplies more vulnerable.
- Future Supply development is more challenging.
- Stewardship and moving forward within our natural resource boundaries is job ONE.



How?

- We have to build smarter.
- Technology is changing all around us.
- There are programs and initiatives to incentivize smart growth
 - Earthcraft
 - LEED
 - WaterSense New Homes



What's the Buzz All About

- Basically Doing More with Less.
- Local Governments need to start considering the water footprint of development.
- Require growth within the resource limitations.
- Not stopping growth.



What can We do?

- Pacific Group – West Village Project
 - Came to us wanted to create a Model Water Conservation Community.
 - Used Draft WaterSense New Homes project as basis
 - Required WaterSense Labeled Products.
 - Plumbing requirements, correct water heater location and limited piping distance.
 - Drought tolerant landscape.
 - Proper installations to allow greater soil percolation and water retention on site.
 - Drip irrigation on ornamentals and shrubs.
 - ET Timers and soil moisture sensors
 - Cistern systems for irrigation.
 - Energy Star products with water factors of 6 or less.
 - Commercial food establishments required to have Low Flow pre-rinse spray valves.



New World Homes

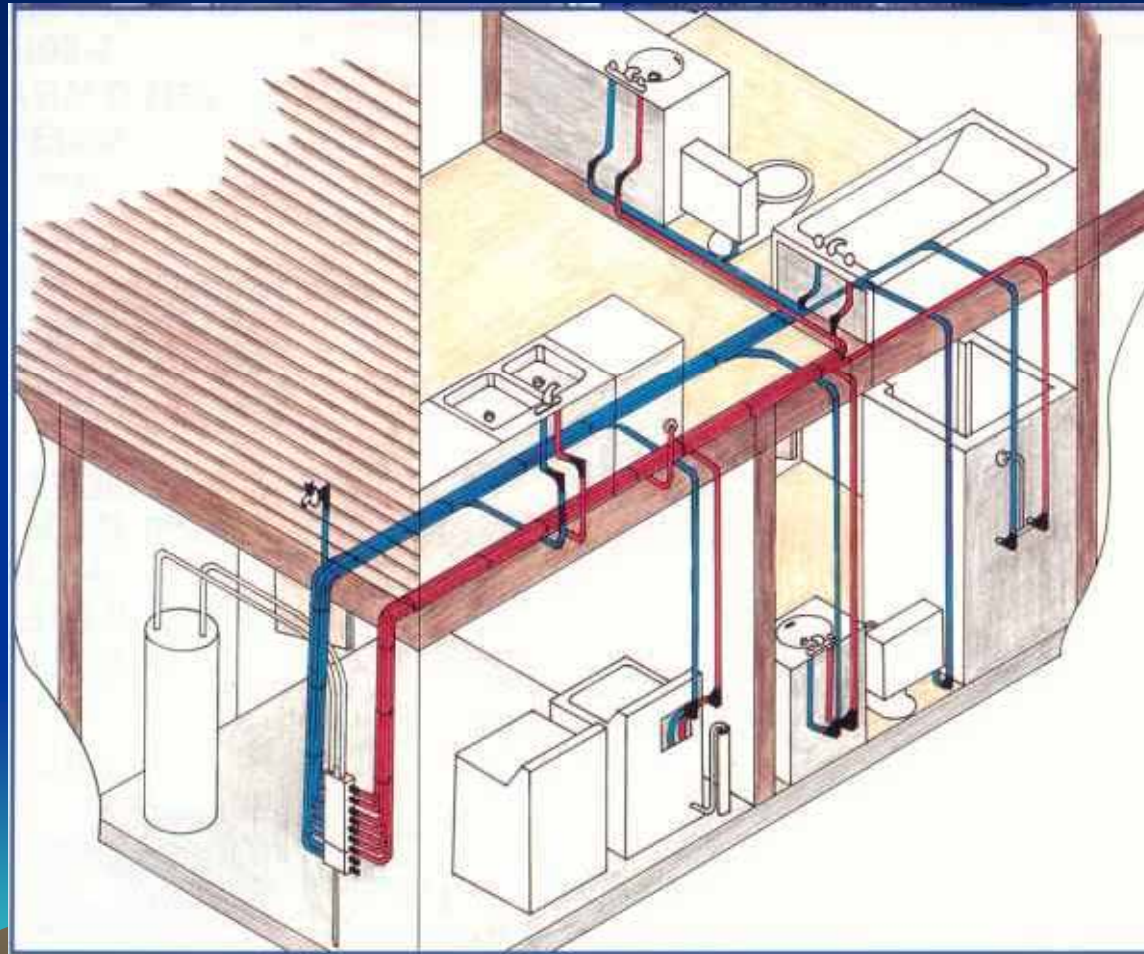
- Modular Green Home
- Educational Location on Murdock and Sewell Mill in Cobb County.
- Platinum LEED and Earthcraft with no alternate energy source.
- PEX Manifold Plumbing System with insulated hot water piping, limited distance.
- All WaterSense Available fixtures.
- Energy Star Appliance.
- Energy Meters in the home to see how much energy your home is using.
- Soon to add water as well.



Green Made Easy



PEX Manifold Plumbing Design



Local Government's Role

- Incentivize Green Building
 - Awards
 - Permit Fee Reductions
 - Expedited Plan Review
- Require Green Building
 - Change Codes
 - All Development Meet WaterSense New Homes
 - Minimum standards for plumbing, landscape design, and irrigation systems.



Local Government Cont.

- Retrofit older homes
 - Rebates
 - Requirements retrofit on reconnect
- Comprehensive Conservation Programs
 - Education
 - Fixture Give Aways
 - Audit Programs
 - Variable residential Rebates
 - Commercial Rebates
 - Tax Incentives



Thank You

Kathy Nguyen

Senior Project Manager, Water
Resources

Cobb County Water System

Kathy.nguyen@cobbcounty.org

770-419-6244

