

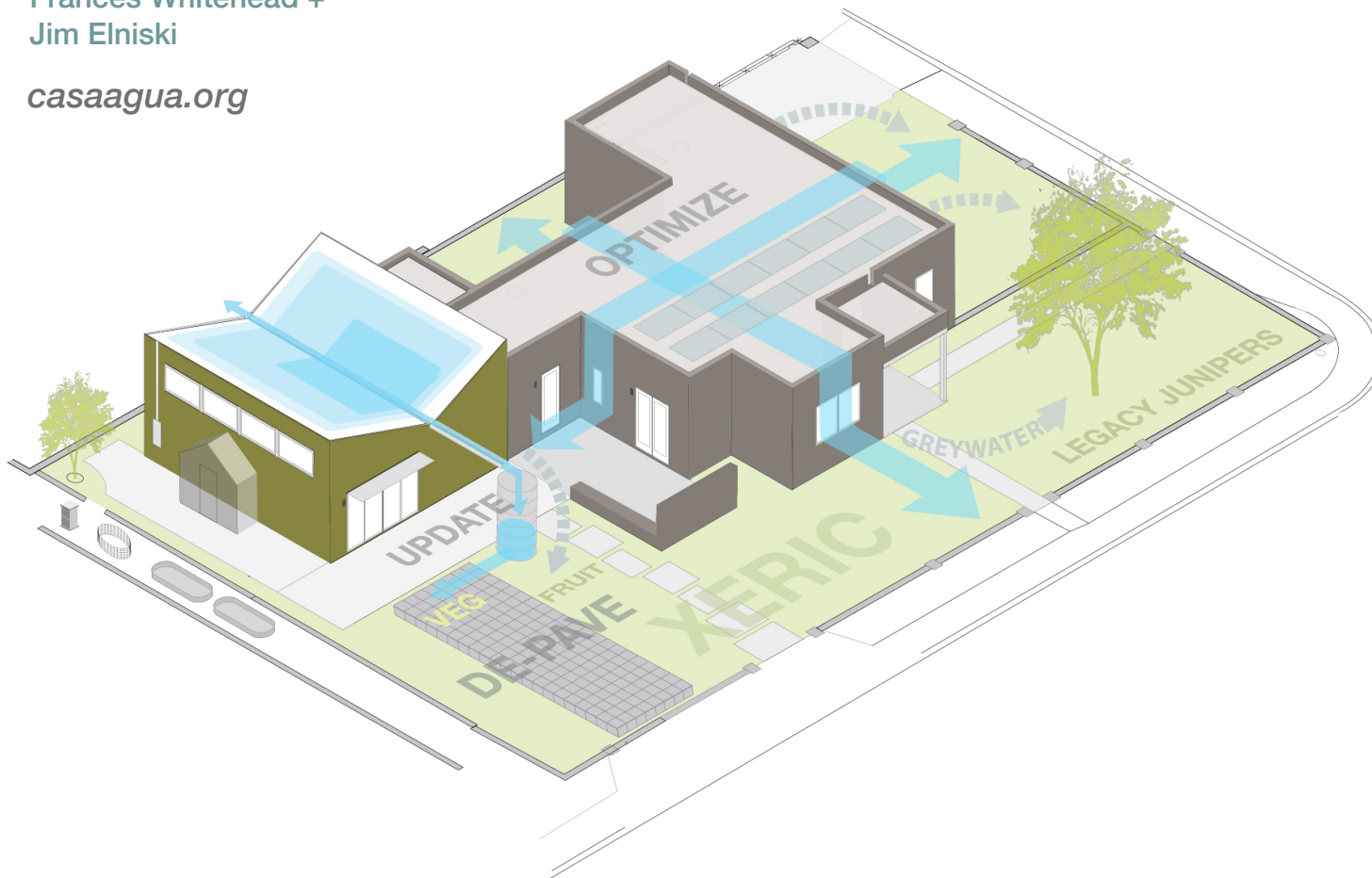


The A to Z of Water Conservation
 @ Sustainable Santa Fe STAMM
 Ranch House

Frances Whitehead +
 Jim Elniski

casaagua.org

BEAM INTO THE ARID FUTURE!



optimize + adapt
STRUCTURE

update
SYSTEMS

depave + retain water
LANDSCAPE

A to Z
 Sustainable STAMM

- A**dapt don't expand
- B**utterfly roof to catch rainwater
- C**isterns for rainwater storage
- D**e-pave the driveway and reuse
- E**dible landscape
- F**ruit-bowl greywater swale
- G**reywater distributed passively
- H**ybrid car plug-in
- I**nsulation blown in without gutting
- J**oistspace as utility chase
- K**itchen appliance energy-star
- L**ow-flow plumbing fixtures
- M**etal windows - no maintenance
- N**ative plants
- O**n-demand hot water heater
- P**ollinator plants + Beekeeping
- Q**uiet space + public space
- R**euse materials, soils, water, plants
- S**olar Panels on flat roof
- T**errace site for water retention
- U**tilize crawlspace for greywater pipes
- V**isitable ramps + Vegetable plot
- W**ater focused landscape
- X**eric plants
- Y**earround beauty with evergreens
- Z**one landscape by water types



PRINCIPLES for Water Conservation
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RE-USE EVERYTHING!

PRINCIPLES

Event-based Public Engagement

- Plant-based Walk + Talk
- Participatory Cactus Tastings + Take-a-ways
- Poetry Slams + Art Pop-ups @ The Tank

Conserve water

- Site elevations and passive water drainage drives design
- Flip garage roof into a “butterfly” for rainwater capture
- Regrade flat roof to re-distribute rainwater
- Capture rainwater in cisterns for veg
- Galvanized tanks on street for high visibility
- Re-plumb house to capture all grey water
- Use greywater on woody fruits
- Use low flow fixtures throughout house
- “Galvanize” conversation with *The Tank* and *Gathering Ground*

Plant-focused design

- All plantings are native, edible or existing
- Develop two-sided site: residential + studio
- Plant-based stucco colors: twig +leaf replaces earth colors
- Create a Xeric Shrubland *The Future Garden*
- Create a Pinion Juniper Woodland *The Present Garden*
- Bring new and historical garden aesthetics to arid ecologies

Reuse everything

- Climate adaptive reuse of vernacular buildings
- Lumber from old garages rebuilds studio
- Concrete driveways cut up for garden walls
- Redistribute all unused materials + fittings
- Repair and reuse existing walls and flooring
- Plant salvaged mature orchard trees
- Incorporate all existing mature plantings into site design