

San Isidro Permaculture

REGENERATIVE DESIGN



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Community Drought Solutions

Connecting the drops...
from rooftop to riverbed

Drought vs. Desertification



Image 21a by F.H. Maude courtesy of Cline Library Special Collections, Northern Arizona University



<http://www.flickr.com/photos/32414037@N05/3473293873/>









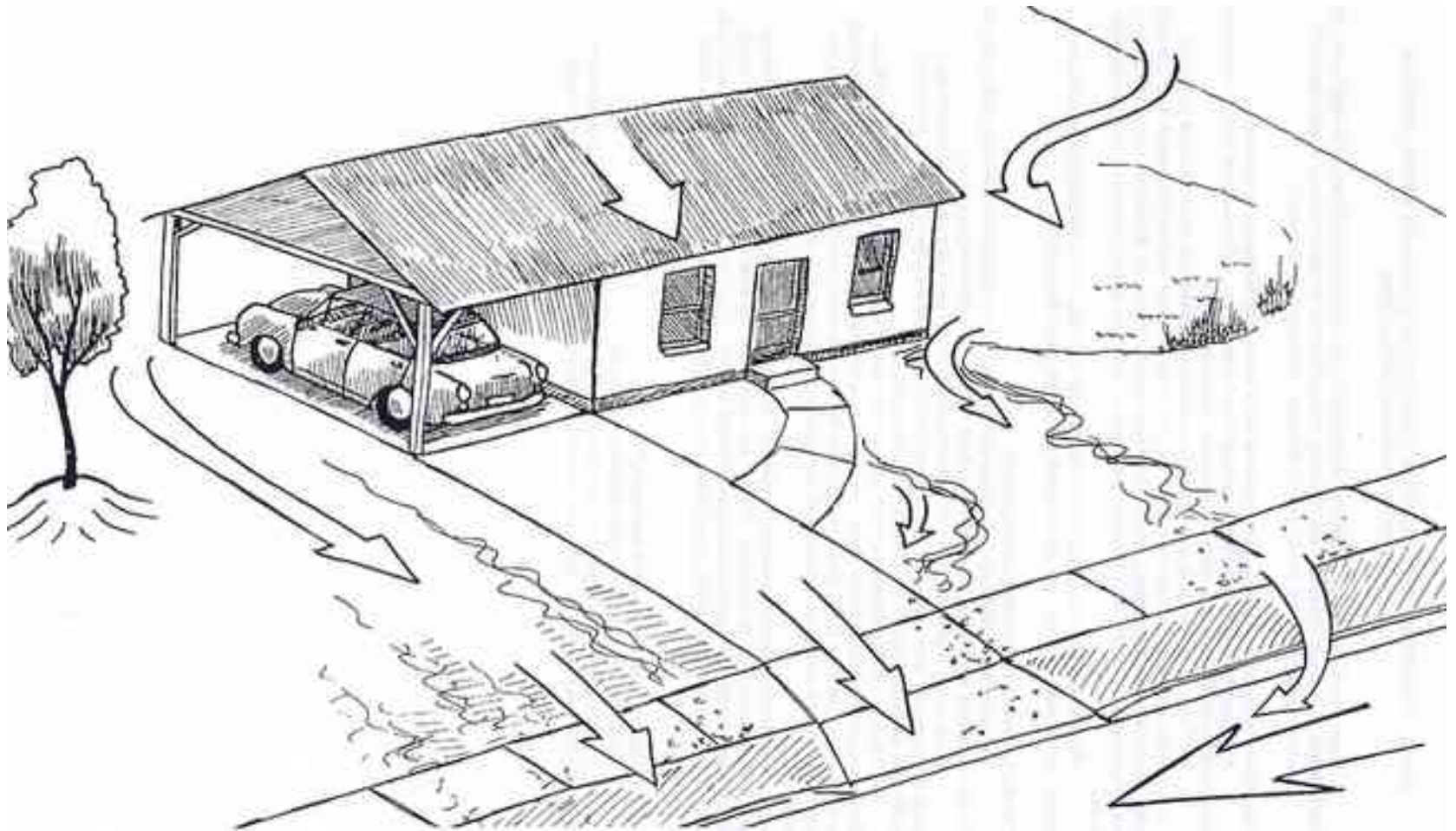




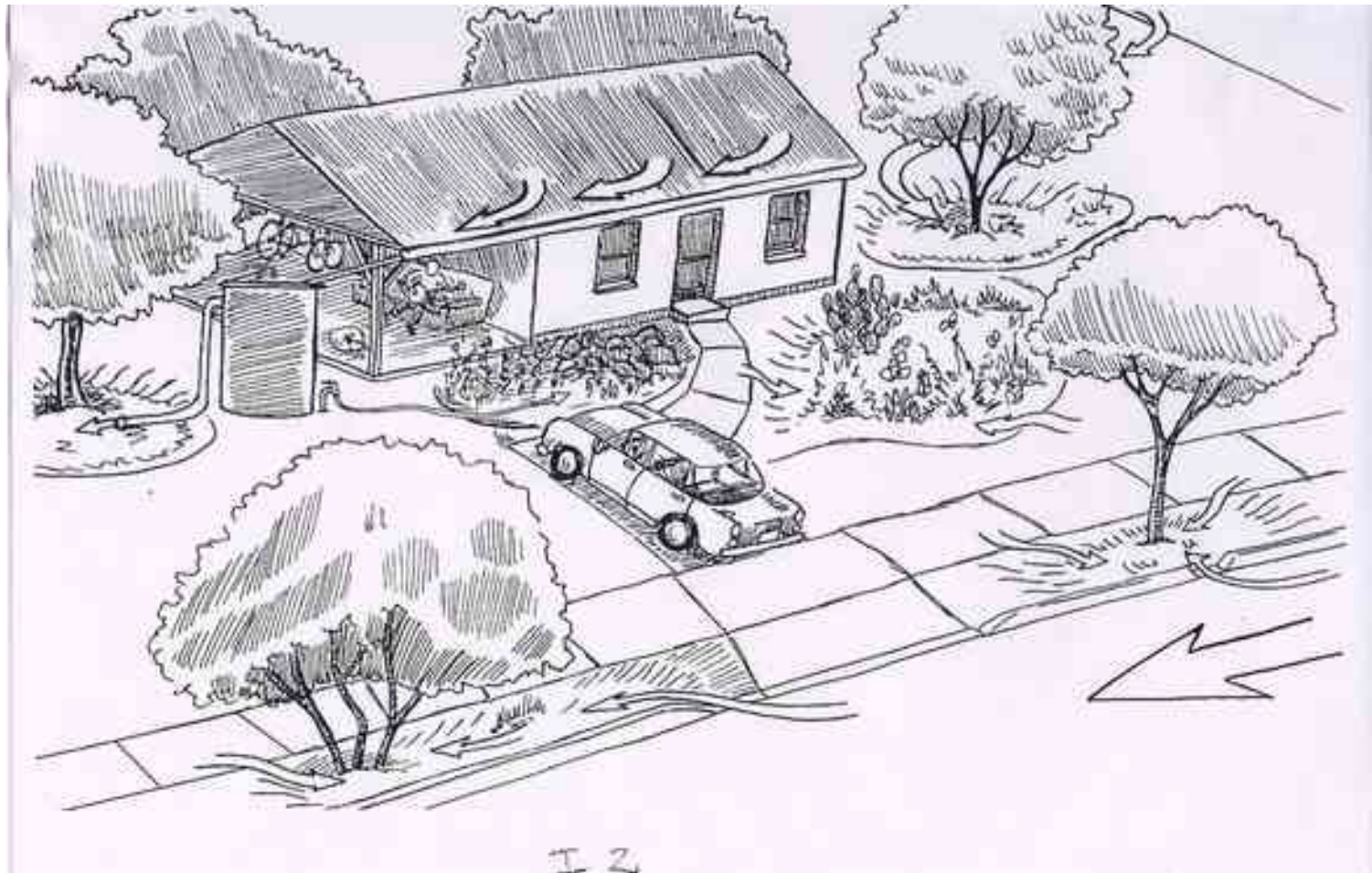




Why this?

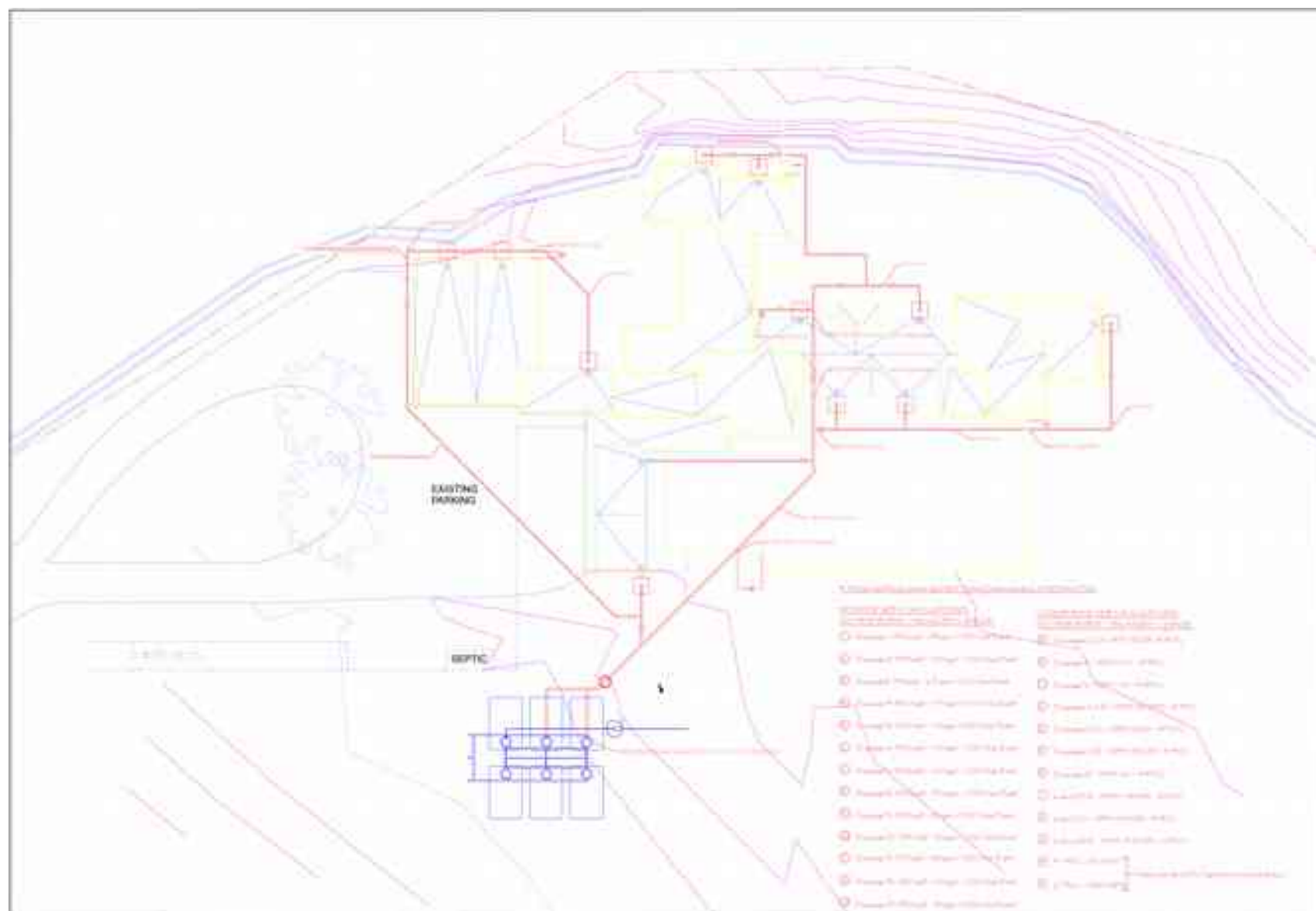


Why not this?









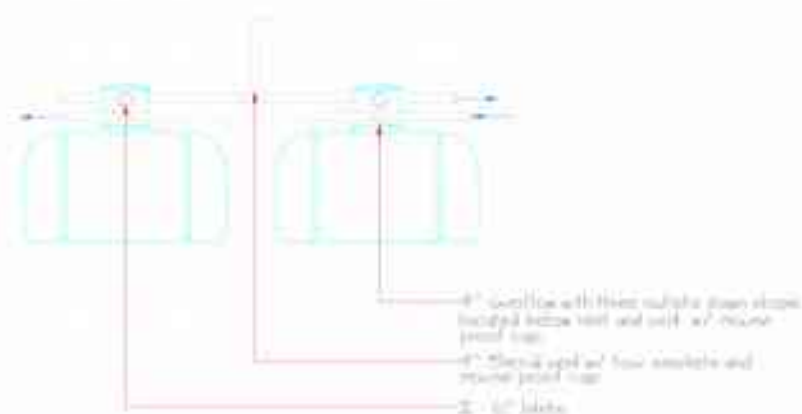






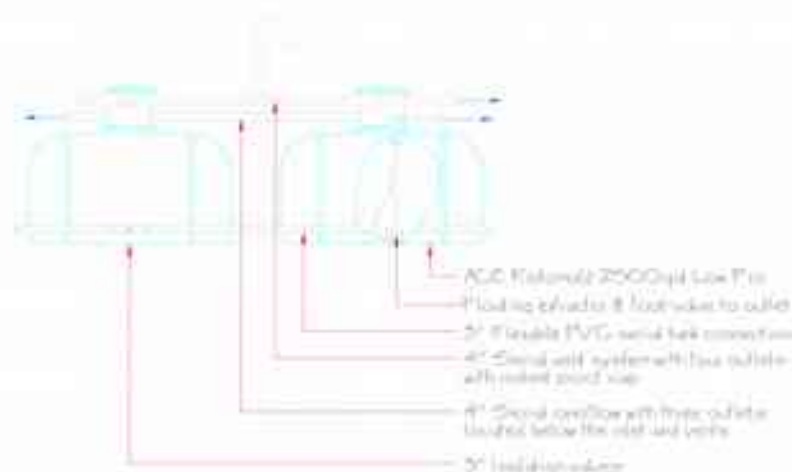
L2-A: Tank Connection Elevation

NTS



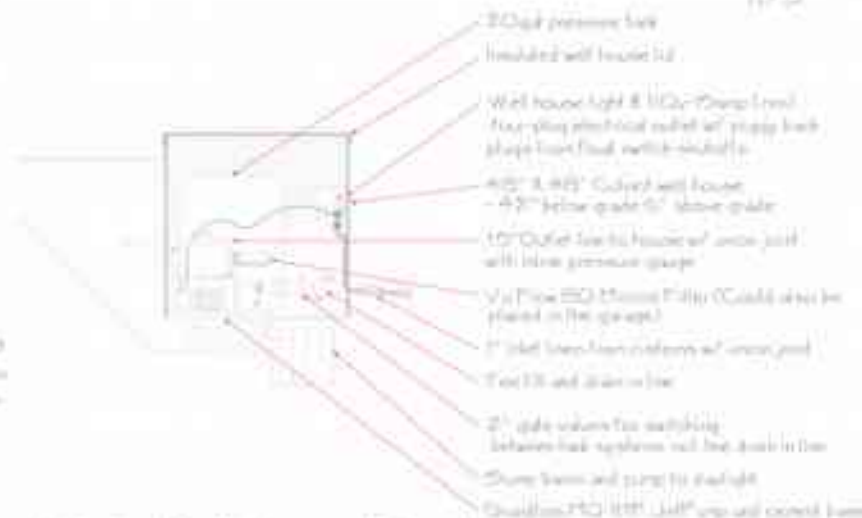
L2-B: Tank Connection Elevation 2

NTS



L2-D: Tank Connections Elevation 3

NTS



L2-C: Well House Elevation

*One line from the harvesting tank system and another from the integrated tank system

NTS































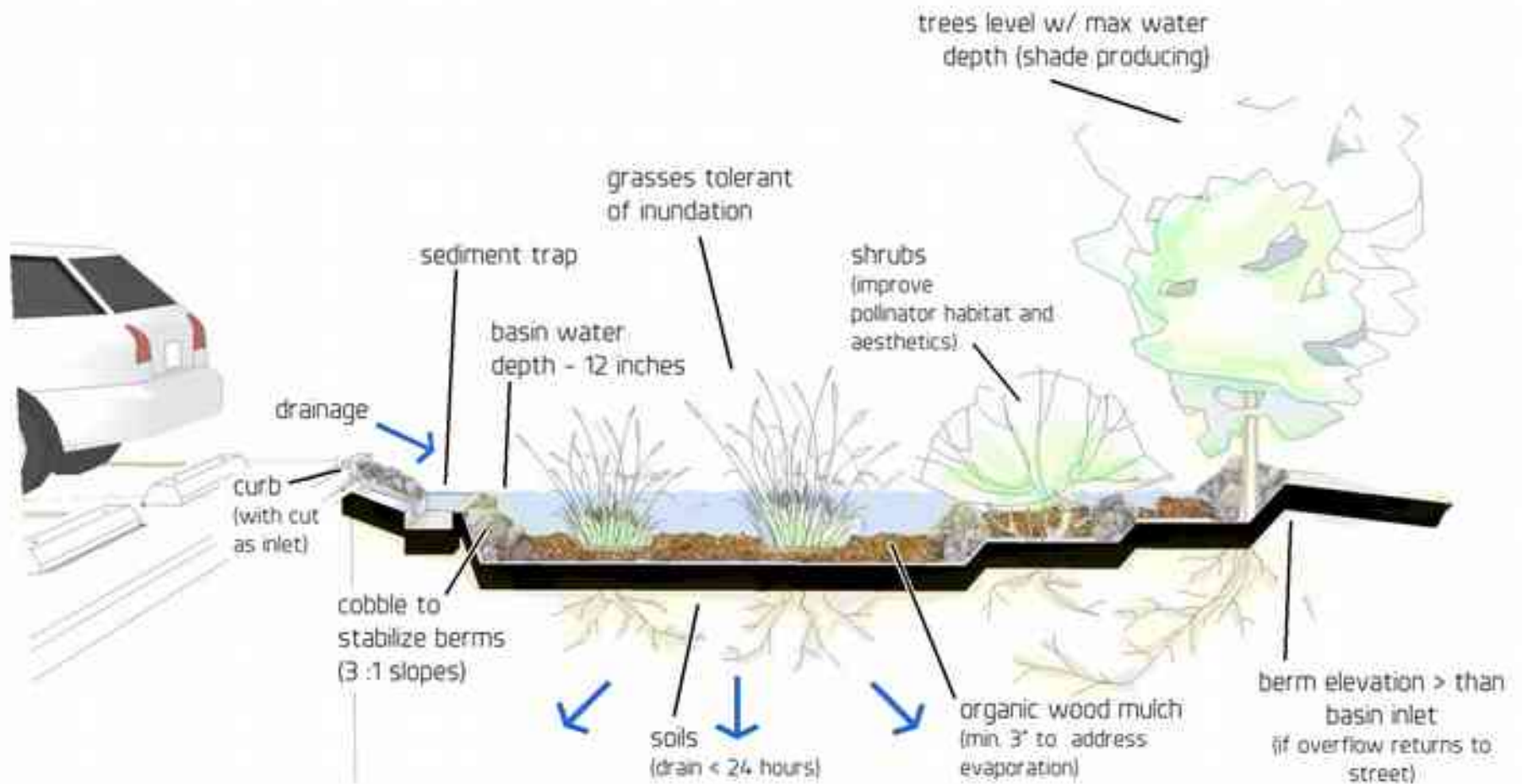












Basic Basin Design Considerations

diagram by
Paul Navrot
for SUH



Photo courtesy of Richard Jennings







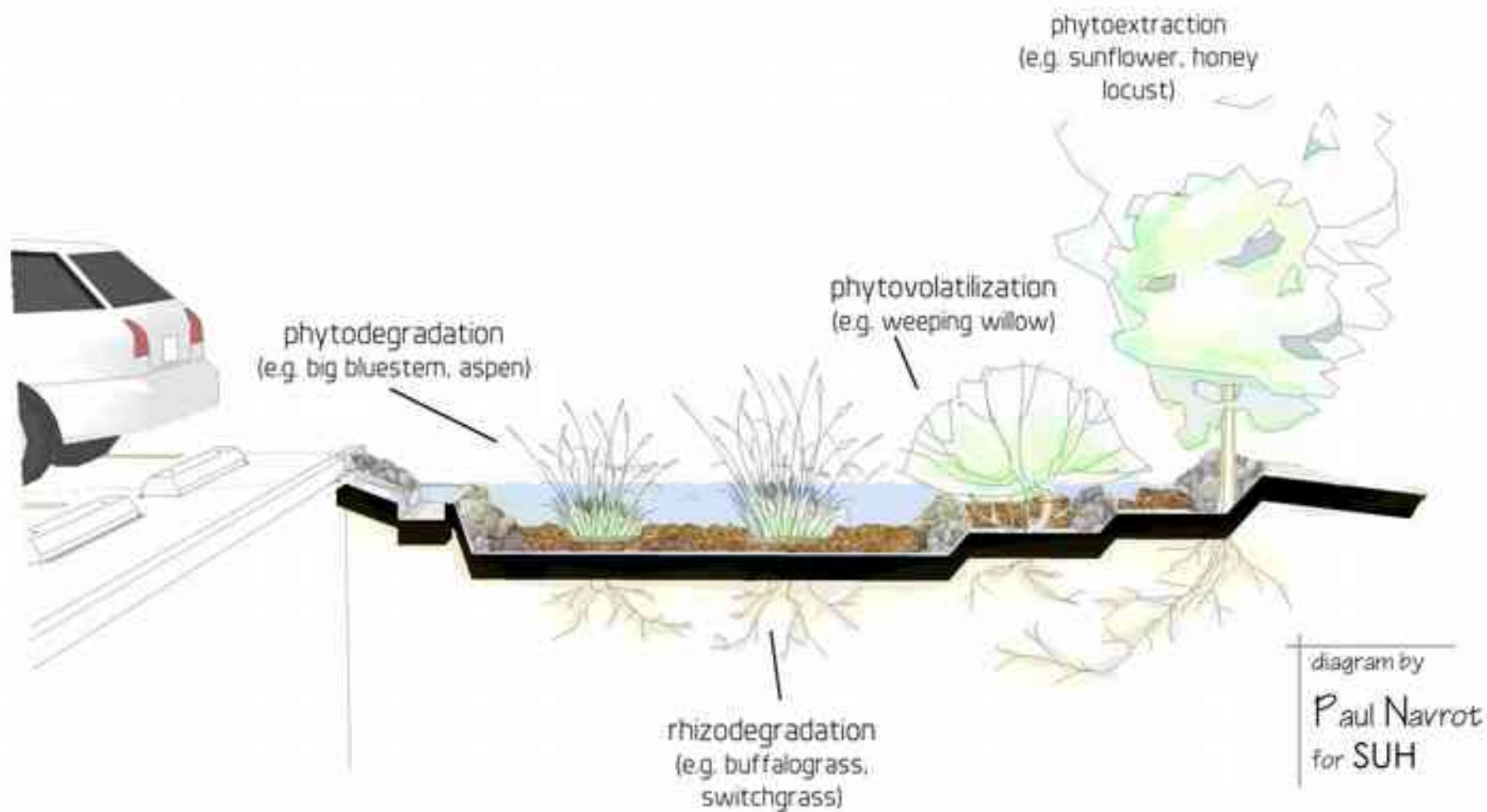






Plant Species

Common Name (Scientific Name)	Contaminant Addressed	Notes (e.g. Native to NM, Invasive, Drought Tolerant, Habitat Value)
Big bluestem (Andropogon gerardi)	Hydrocarbons; Copper	Native; Moderate water; 6 feet tall; Plant in water collecting low spots
Little bluestem (Schizachyrium scoparium)	Hydrocarbons	Native; Low water; Deeply rooted; Beautiful fall color; 2-3 feet bunchgrass
Indiangrass (Sorghastrum nutans)	Hydrocarbons	Native; Minor-Low food value for terrestrial birds; Moderate water; 6-7 feet tall
Fringed sage (Artemisia frigida)	Hydrocarbons; Copper	Low growing native with silver-grey foliage; Low water; Can be invasive in disturbed soils (e.g. overgrazed)
False indigo (Amorpha fruticosa)	Lead, Perchlorate	Native; Moderate water; Attracts bees
Sunflower (Helianthus annuus)	Arsenic, Chromium, Copper, Lead, Zinc, etc.	Native; Low water; Low food value for small mammals and terrestrial birds
Three-leaf sumac (Rhus trilobata)		Native; Good fall color; Berries attract birds
Western catalpa (Catalpa occidentalis)	Lead; Cadmium	Native



Phytoremediation















