

DESIGN: Affordable Energy & Water Conservation

How can a new urban home be designed sustainably inside and out in a way that can be affordable, attractive and easily maintained for low-income residents?

CONSULTANT TO TRI-COUNTY HOUSING DEVELOPMENT CORPORATION ; ARCHITECT - TIMOTHY P. ALLEN, AIA, 2007

NATIVE PLANT LIST

TREES

BOTANICAL NAME / COMMON NAME

- Acer rubrum 'October Glory' / Red Maple
- Amelanchier canadensis 'Sprizam' / Shadblow Serviceberry
- Cercis canadensis 'Forest Pansy' / Eastern Redbud

SHRUBS

BOTANICAL NAME / COMMON NAME

- Cornus sericea / Redosier Dogwood
- Hypericum frondosum 'Sunburst' / Golden St. John's Wort
- Ilex verticillata / Winterberry
- Rhus aromatica 'Gro Low' / Fragrant Sumac
- Viburnum dentatum / Arrowwood

PERENNIALS GRASSES (plugs)

BOTANICAL NAME / COMMON NAME

- Andropogon gerardii / Big Bluestem
- Carex lurida / Lurid Sedge
- Carex muskingumensis / Palm Sedge
- Carex pennsylvanica / Pennsylvania Sedge
- Chasmanthium latifolium / Northern Sea Oats
- Elymus virginicus / Virginia Wild-Rye
- Liriope spicata / Creeping Liriope
- Panicum virgatum 'Warrior' / Switch Grass
- Schizachyrium scoparium / Little Bluestem
- Sorghastrum nutans / Indian Grass
- Sporobolus heterolepis / Prairie Dropseed

PERENNIAL MEADOW / WILDFLOWERS (seeds)

BOTANICAL NAME / COMMON NAME

- Aquilegia canadensis / Wild Columbine
- Asclepias tuberosa / Butterfly Weed
- Aster novae-angliae / New England Aster
- Baptista australis / Blue False Indigo
- Chelone glabra / Turtlehead
- Echinacea purpurea / Purple Coneflower
- Eupatorium fistulosum / Joe-Pye Weed
- Gaura biennis / Gaura
- Heliopsis helianthoides / Ox-eye Sunflower
- Monarda fistulosa / Wild Bergamot
- Rudbeckia laciniata / Cutleaf Coneflower



I generated a siteplan for a pilot project in South Allison Hill for a 'zero-energy' house which is following LEED standards. Throughout the process I worked closely with the architect, engineers and green energy experts to achieve an integrated system. The plan includes native, drought tolerant plants, pervious paving, rain barrels, rain gardens for infiltrating roof rainwater back into the ground, and use of low-growing fescue in exchange for traditional turf, essentially eliminating the need for mowing and irrigation.



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 OCT 17 2007
 1" = 10'
 SITE PLAN
 L1
 LOW/ZERO NET ENERGY HOME
 MOUNT PLEASANT HOMES, HARRISBURG, PA