

THE ZIGGURAT RETROFIT

FALL 2010 JACQUELINE ARCHER LDA 170

GREEN ROOFS, GREEN FACADES, AND TERRACE GARDENS

DESIGN IMPROVEMENTS

- The building is covered in vegetation to increase its overall **INSULATION**.
- There are two balconies that contain walkable space. They have garden pots filled with **EDIBLE PLANTS**, benches to sit on, and an arbor covered with grape vines to shade users.
- The arbor is positioned so that the **VIEWS** from the windows are not obstructed but rather framed by the columns of vines.
- Vines cover the exterior walls, allowing the building facade to **COMPLIMENT THE NATURAL SURROUNDINGS**. The vines are attached to trellises to prevent damage to the building structure.
- The vines planted on each terrace alter between Virginia creeper and Oak leaf hydrangea to ensure the overall success of the plants and to better **GUARD AGAINST DISEASE**.
- The plants chosen will provide **WILDLIFE HABITAT** and food during migratory seasons.
- The food collected on the balconies is shared amongst office workers and creates a sense of **COMMUNITY**.

PLANT SELECTION

All plants were selected based on their drought tolerance and hardiness zone.



Thymus serpyllum
Creeping thyme



Parthenocissus quinquefolia
Virginia creeper



Sedum urvillei
Sedum



Hydrangea quercifolia
Oak leaf hydrangea



Vitis californica
California wild grape



Festuca Idahoensis
'Siskiyou Blue'
Idaho blue fescue

OBJECTIVE:

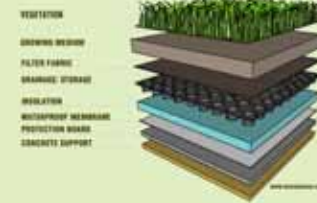
A green roof on the Ziggurat will increase the sustainability of West Sacramento and encourage other citizens to research the feasibility of a green roof for themselves.

The green roof will also allow the building, which has been described by locals as, "a sore thumb," to compliment its natural surroundings.

ADVANTAGES

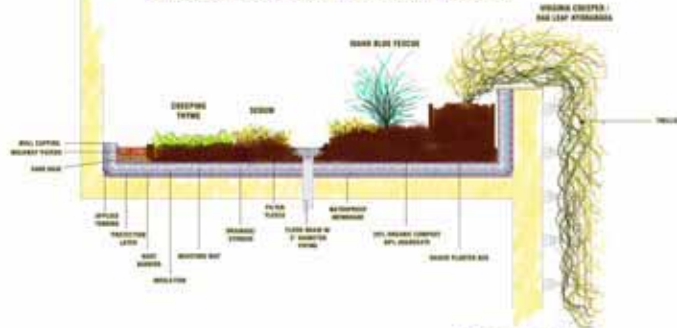
- REDUCED HEATING AND COOLING
- REDUCED URBAN HEAT ISLAND EFFECT
- REDUCED STORMWATER RUNOFF
- LESS PARTICULATE MATTER IN AIR
- MORE WILDLIFE HABITAT
- FOOD SOURCE
- IMPROVED HEALTH OF TENANTS AND NEIGHBORS
- AESTHETICALLY PLEASING

STANDARD GREEN ROOF LAYERING



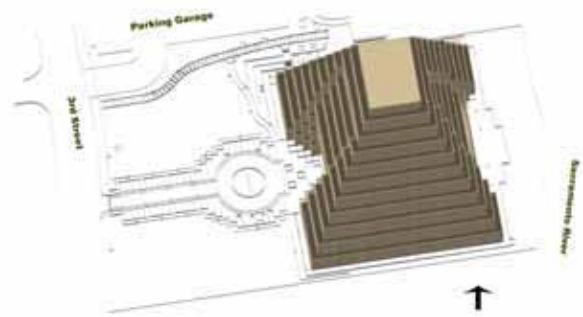
SCALE 1/8" = 1' - 0"

GREEN ROOF AND GREEN FACADE



SCALE 3/4" = 1' - 0"

EXISTING SITE



EXISTING ROOF STRUCTURE

TERRACE GARDEN



SCALE 1/2" = 1' - 0"