WHY THIS PROPERTY?

This property, containing on single family home with alley garage access, was selected to be representative of its neighborhood in regards to orientation, programming, and vegetation. Like many of its peers, this property is relatively narrow with very shallow setbacks to the adjoining properties. It is oriented north-south and offers a fairly sized-able front yard compared to its neighbors. However, this means that the fenced-in backyard is rather small in comparison and is planted only with turf. The covered porch and fenced in backyard offer a sense of security and ownership, especially when considering the shallow setbacks. The abundant use of turf is common in this, and most, residential areas and as such has been termed as culturally significant since it would be exceptional if this was not present. The alley-access garage allows for a narrower house profile on the lot, though this particular design does not seem to take advantage of this fact as much as it could have. Interestingly, the developers have chosen to place the utility boxes on the front face of the lots on this street, likely for cost-reduction or access reasons.

PERENNIAL BEDS

DROUGHT TOLERANCE

- LOW
- MED
- HIGH

PERENNIALS

ROOF

MULCH

CONCRETE

TURF

% PROPERTY SURFACE AREA

45.3%

31.1%

20.5%

0.4%

OVER AN AVERAGE GROWING SEASON THIS LAWN WILL USE NEARLY
50,000 GALLONS OF WATER. TO KEEP UP OVER THE SAME TIME PERIOD YOU’D NEED TO TAKE
5 BATHS A DAY EVERY DAY.

PERENNIALS AND SHRUBS ATTRACT

BUTTERFLIES

BEES

BIRDS

CULTURALLY SIGNIFICANT PLANTS

SAVINGS FROM TREE

STORMWATER

AIR QUALITY

CO

SUMMER ENERGY

WINTER ENERGY

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Photo by KENPEI (Wikimedia)

Photo by Marcela (Wikimedia)

Photo by Ghislain118 (Wikimedia)

Photo by Matt Lavin

Photo by Kor!An (Wikimedia)

NATIVE     NON-NATIVE

DROUGHT TOLERANCE

NONE      LOW      MED

PERENNIAL BEDS

PLAY SPACE

HUMAN COMFORT ZONE

HUMAN COMFORT ZONE

RESTORATIVE SPACE

ROAD

DRIVEWAY

SHED/VEL

SIGNAGE

CULTURALLY SIGNIFICANT PLANTS

ROOF RUNOFF

AVERAGE MAY-AUG PRECIPITATION

12 GAL

425 GAL

418 GAL

498 GAL

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SITE 6:
TOTAL PARCEL SIZE: 5,286 SF
HOUSE SIZE: 1,527 SF
% PERVIOUS SURFACES: 54%
% IMPERVIOUS SURFACES: 46%
THE HOUSE & GARAGE ON SITE ARE ORIENTED EAST-WEST.
THE FRONT DOOR OF THE HOUSE IS LOCATED ON THE WEST SIDE.

EXISTING VEGETATION:
23% VEGETATION - 1/2 NATIVE
12.5% OF TOTAL VEGETATED AREA (2,934 SF) - DROUGHT TOLERANT

HUMAN COMFORT ZONE
1/2 FEATURES:
ENCLOSED PORCH THAT IS HIGHLY SECULDED; ALLOWS FOR RELAXATION & ORGANIZED SOCIALIZATION.

HUMAN COMFORT ZONE 2/2
FEATURES:
VIEWS OF LANDSCAPE PROVIDES AN AREA FOR RELAXATION AS WELL AS SPONTANEOUS SOCIALIZATION; SOCIALIZATION WITH NEIGHBORS & PEDESTRIANS PROMOTED DUE TO OPEN ATMOSPHERE OF PORCH

SOIL ON SITE:
LOAM
PRIME AGRICULTURE LAND
POOR DRAINAGE
MODERATE-VERY FAST PERMEABILITY RATE

EXISTING VEGETATION:
23% VEGETATION - 1/2 NATIVE
12.5% OF TOTAL VEGETATED AREA (2,934 SF) - DROUGHT TOLERANT

SUMMER SOLSTICE SUN-SHADE ANALYSIS
THE NORTH SIDE OF THE HOUSE RECEIVES
4.5 HOURS OF DIRECT SUNLIGHT
THE EAST SIDE OF THE HOUSE RECEIVES
5.5 HOURS OF DIRECT SUNLIGHT
THE SOUTH SIDE OF THE HOUSE RECEIVES
6 HOURS OF DIRECT SUNLIGHT
THE WEST SIDE OF THE HOUSE RECEIVES
7.5 HOURS OF DIRECT SUNLIGHT

WINTER SOLSTICE SUN-SHADE ANALYSIS
THE NORTH SIDE OF THE HOUSE RECEIVES A MAXIMUM OF 1 HOUR OF DIRECT SUNLIGHT
THE EAST SIDE OF THE HOUSE RECEIVES
2.5 HOURS OF DIRECT SUNLIGHT
THE SOUTH SIDE OF THE HOUSE RECEIVES A MAXIMUM OF 1 HOUR OF DIRECT SUNLIGHT
THE WEST SIDE OF THE HOUSE RECEIVES
4 HOURS OF DIRECT SUNLIGHT

TOTAL ANNUAL OUTDOOR COSTS
$208.01

TOTAL ANNUAL OUTDOOR SAVINGS / GAINS
$170.63

$159.00 PROPERTY VALUE INCREASE FROM 2 FRONT YARD TREES

$166.79 OUTDOOR WATER COSTS JUNE-AUG

$21.50 TURFGRASS FERTILIZER APPLIED 3 TIMES/GROWING SEASON

$19.72 GAS FOR MOWING 11 TIMES/GROWING SEASON

$4.47 STORMWATER SAVINGS

$0.21 AIR QUALITY SAVINGS

$3.71 SUMMER ENERGY SAVINGS

$1.87 WINTER ENERGY SAVINGS

$1.37 CO2 SAVINGS

$4.47 STORMWATER SAVINGS

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