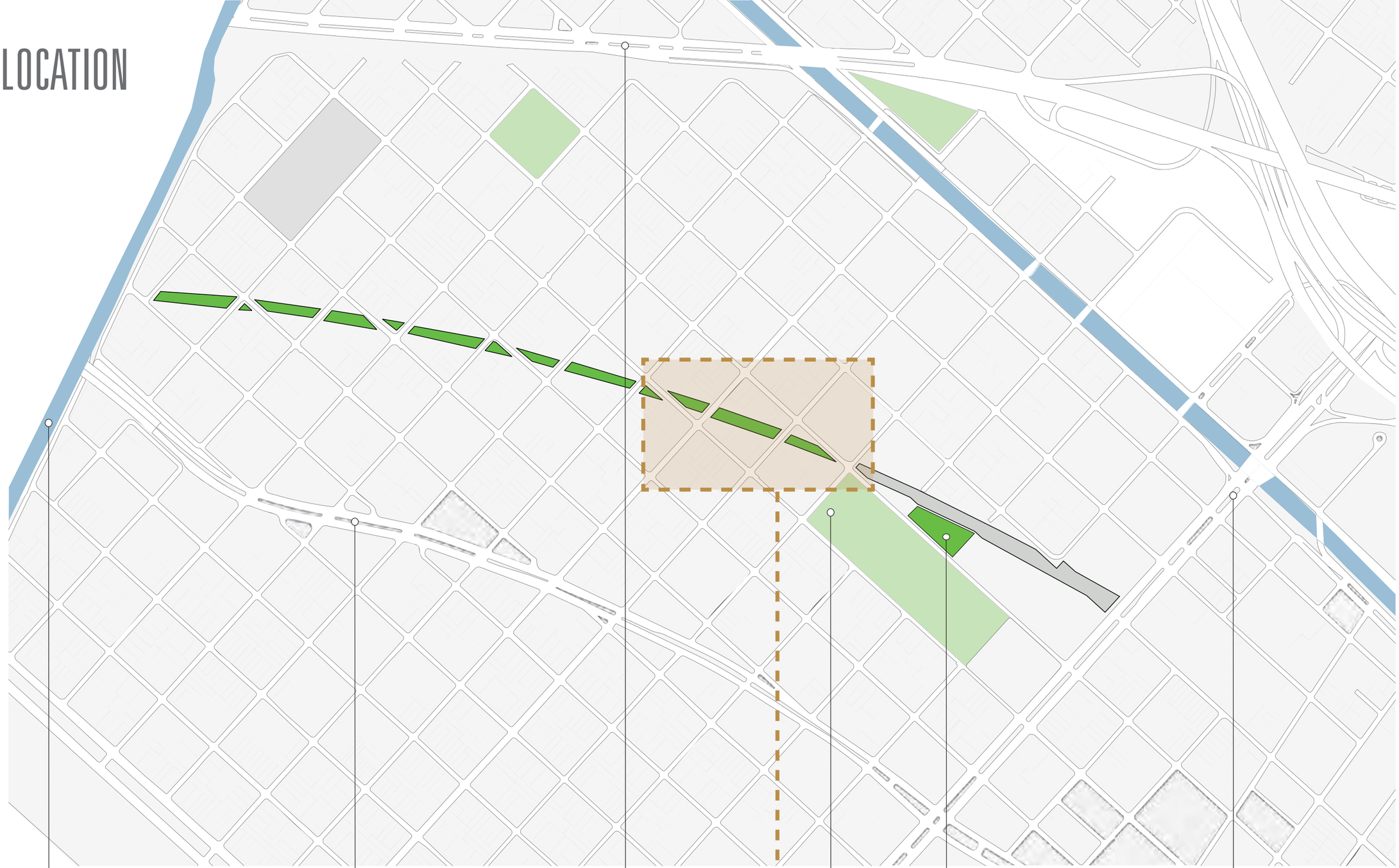
HOLLYGROVE GREENLINE

A project of the Carrollton-Hollygrove CDC

with support from the Tulane City Center

SITE LOCATION



OVERVIEW

Intersection with Monroe looking West

GREENLINE GOALS:

-Re-activate unused infrastructural space within the Hollygrove neighborhood
-Educate the community on stormwater management strategies
-Provide healthy, safe, enjoyable public outdoor spaces
-Provide demonstration gardens for urban farming initiatives

View of Phase 1 Construction Looking East-
NORA Water Retention Garden is at Right

View of Phase 1 Construction Looking East from Forshey Street

EXISTING CONDITIONS

Greenline Master Plan
Phase 1
Draft July 31, 2013

32 - Leonidas

MONROE ST

LEONIDAS ST

FORSHEY ST

OLIVE ST

Hollygrove Market & Farms

grass gathering area

rain garden

bioswale

demonstration gardens

gravel path

fenced storage

street paint

16' bench and signage

16' retaining wall

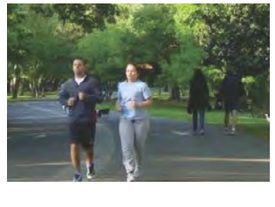
6' fence

N

SITE STRATEGIES: Neighborhood Vision




Community Garden Agriculture Farm Market Grow Learn Eat




Walk Run Bike Skate Relax Read Sit Picnic




Climb Swing Hang Jump Run Play




Sit Gather Listen Watch Learn Picnic Concert Market Event




Delay Collect Move Store Filter Reuse

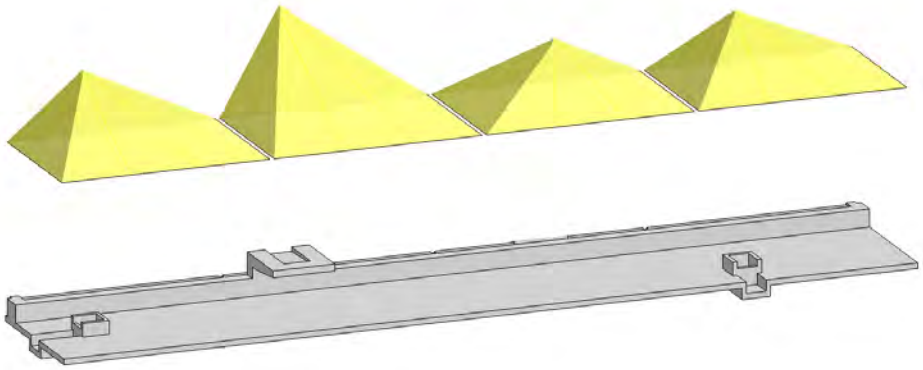
Urban Farm

Public Park

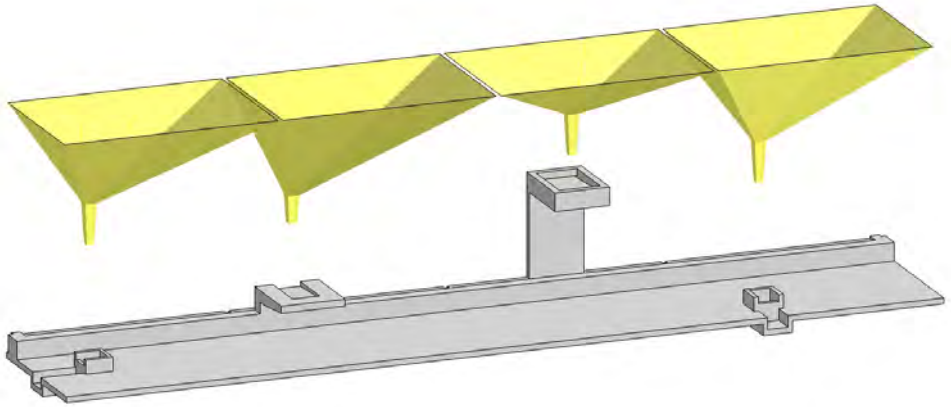
Playground

Pavilion

Stormwater Management

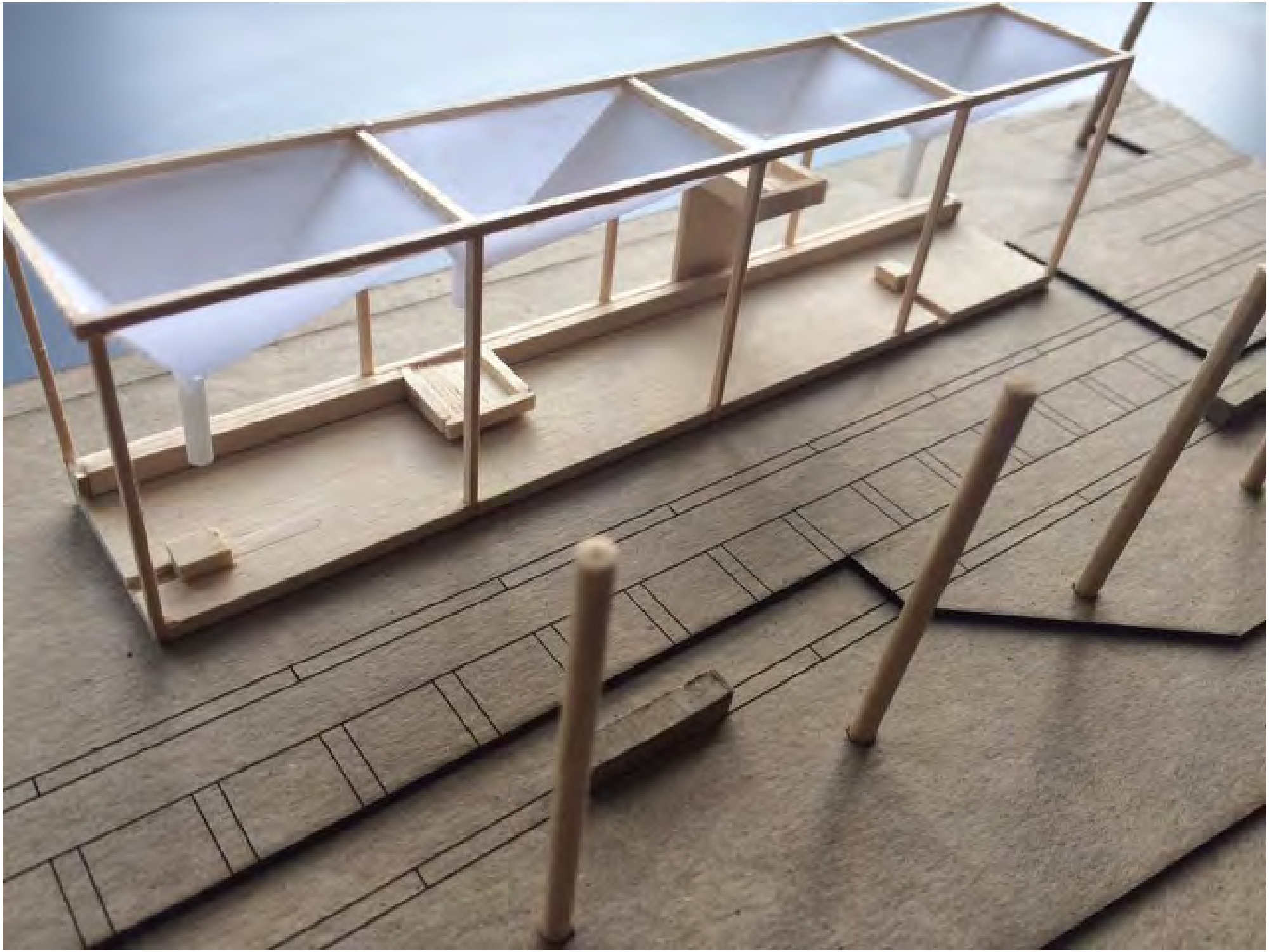


TRADITIONAL TENT FORM

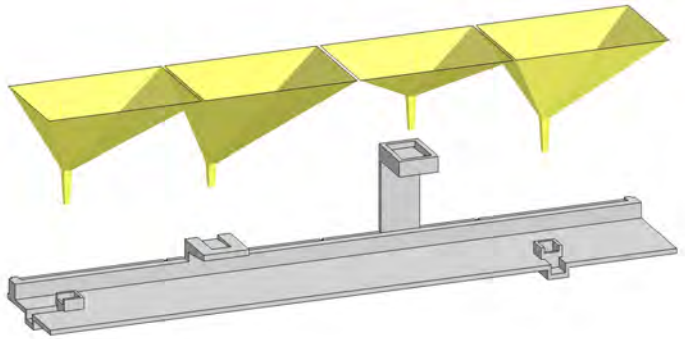


INVERTED TENT

SCHOOL COURTYARD MELBOURNE, AUSTRALIA
SALLY DRAPER, ARCHITECT



RAINWATER CATCHMENT

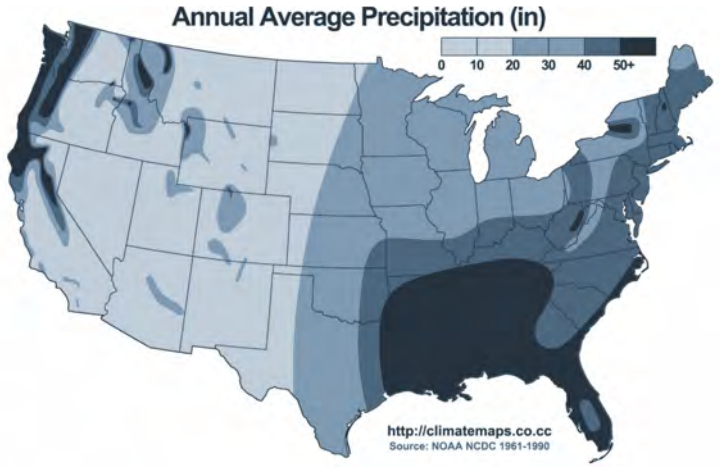


4, 11’ x 16’ tents

176 SF each_704 sf total

In theory, a rainwater harvesting system can collect approximately 0.62 gallons of water per square foot of roof area, per inch of rainfall. Given loss due to first flush, evaporation, splash-out, overshoot, and possible leaks we assume an efficiency of about 75 to 85 percent for the system.

In New Orleans, using a collection rate of 0.62, a system efficiency of 0.75, and an average annual rainfall of 64 inches, we can expect to collect about **21,000** gallons of rainwater per year (0.62 x 0.75 x 704 x 64 = 20,951 gallons per year).



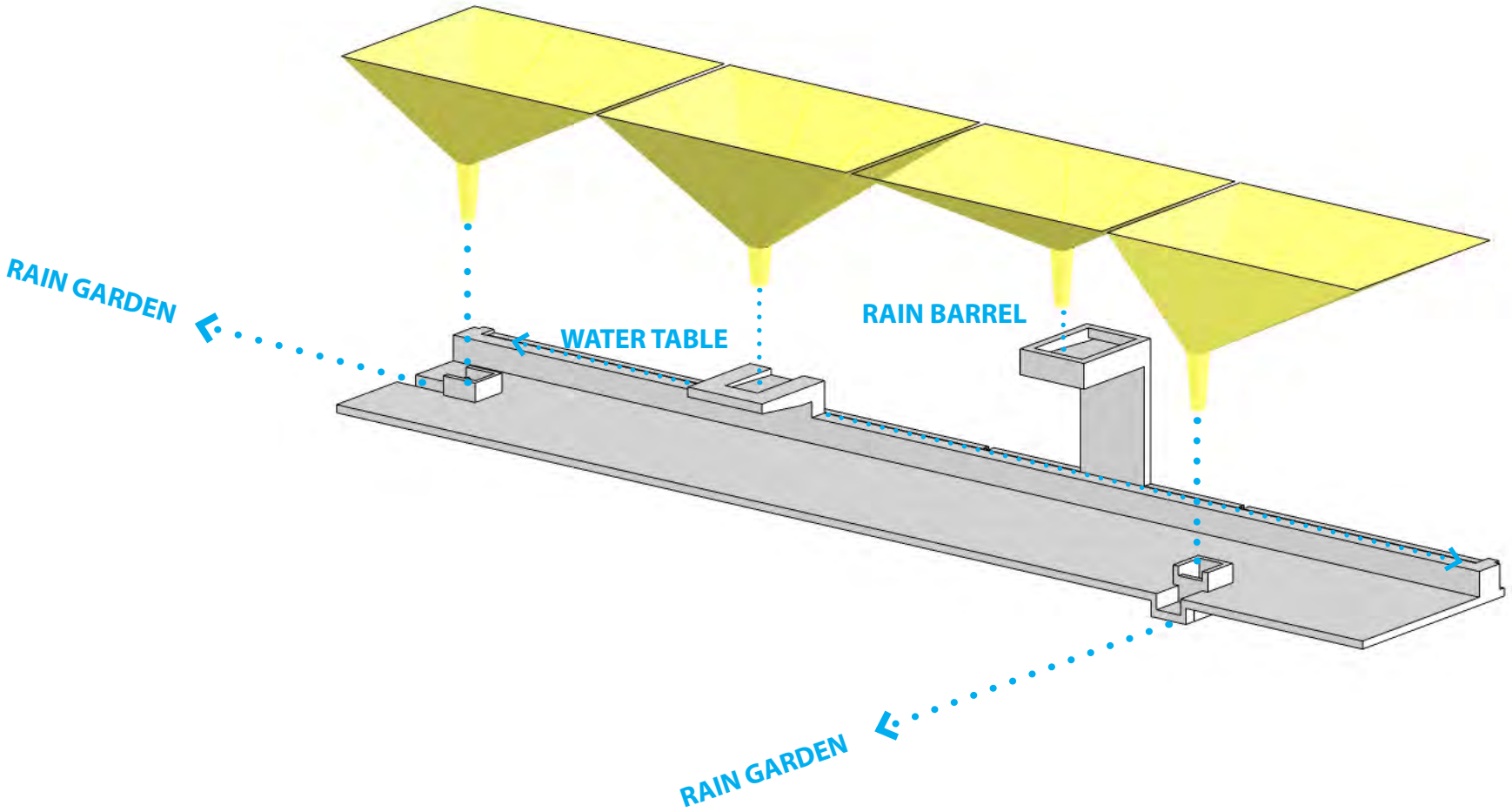
Sizing the water tank

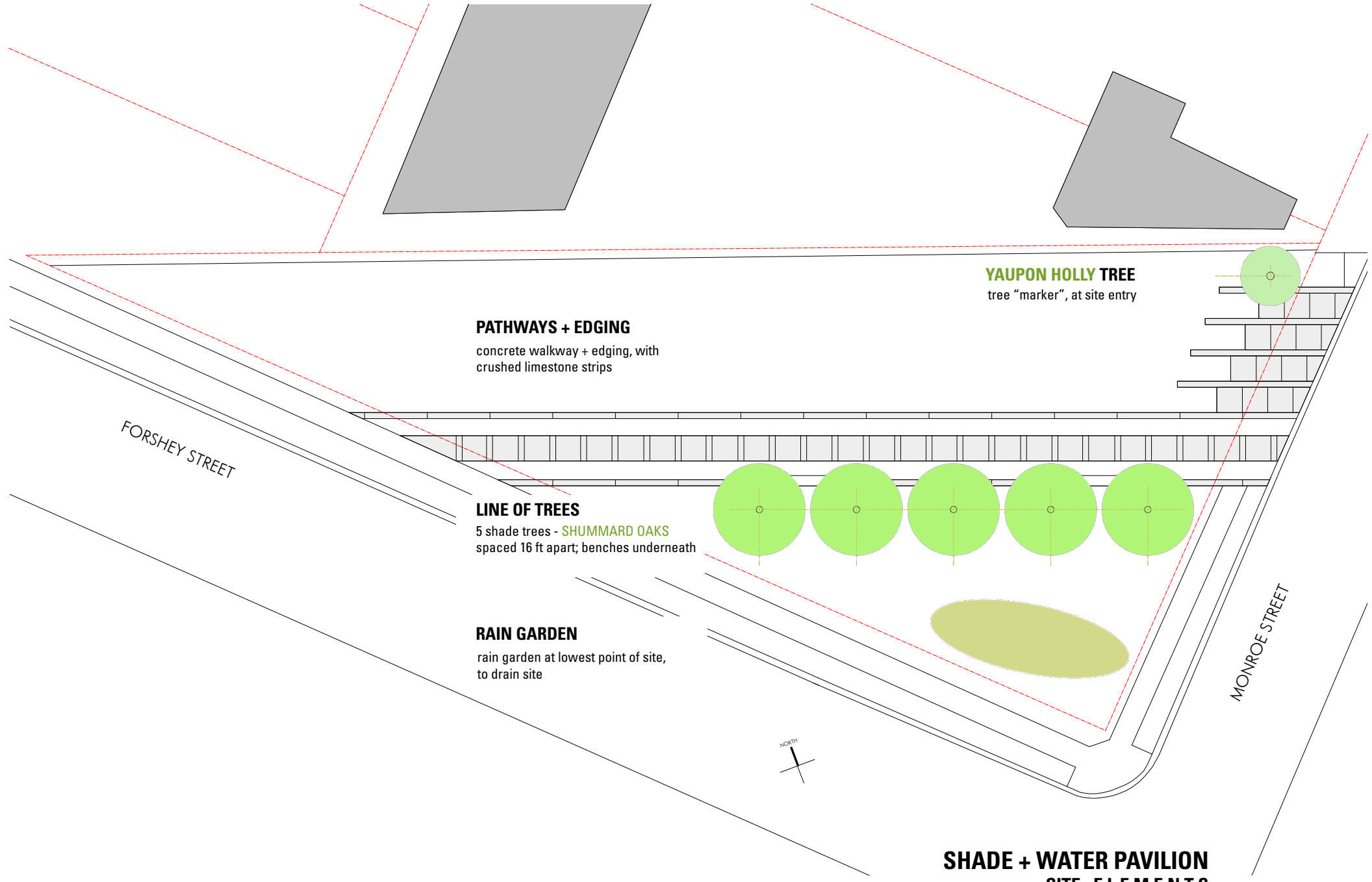
Average number of rainy days per year: 62
On an average rainy day you could expect to collect
.62 x .075 x 176 x 1 = 82 gallons per inch of rain per bay

Young trees require 1.5” of rain per week/ 25 gallons per tree
Number of weeks without 1.5” of rain in New Orleans?

Height of tank

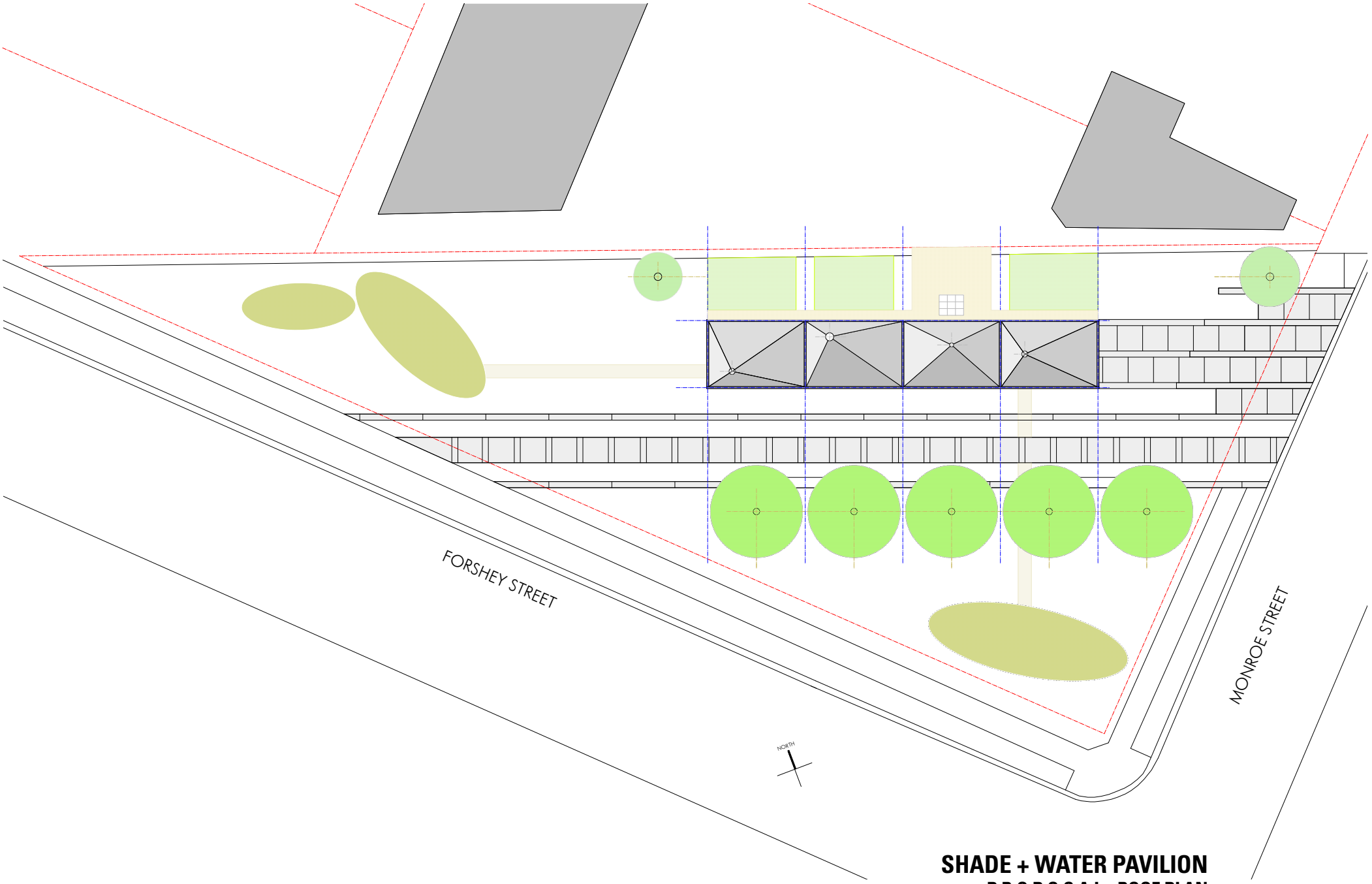
The tank should be elevated so gravity eliminates the need for a pump. Each gallon of water weighs 8 lbs so a 100 gallon tank would weigh 800 lbs.


RAIN GARDEN
WATER TABLE
RAIN BARREL
RAIN GARDEN



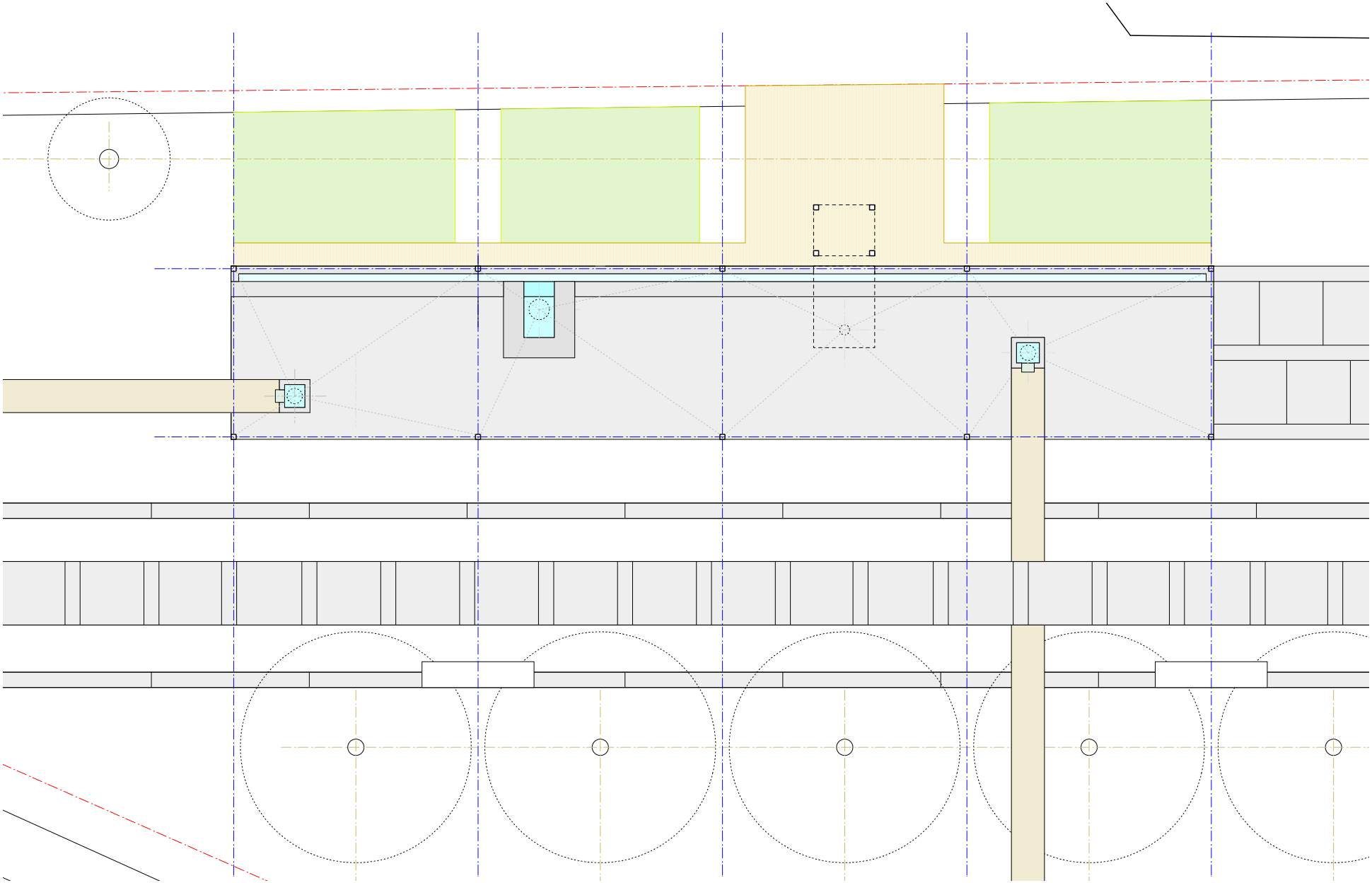
SHADE + WATER PAVILION

SITE ELEMENTS



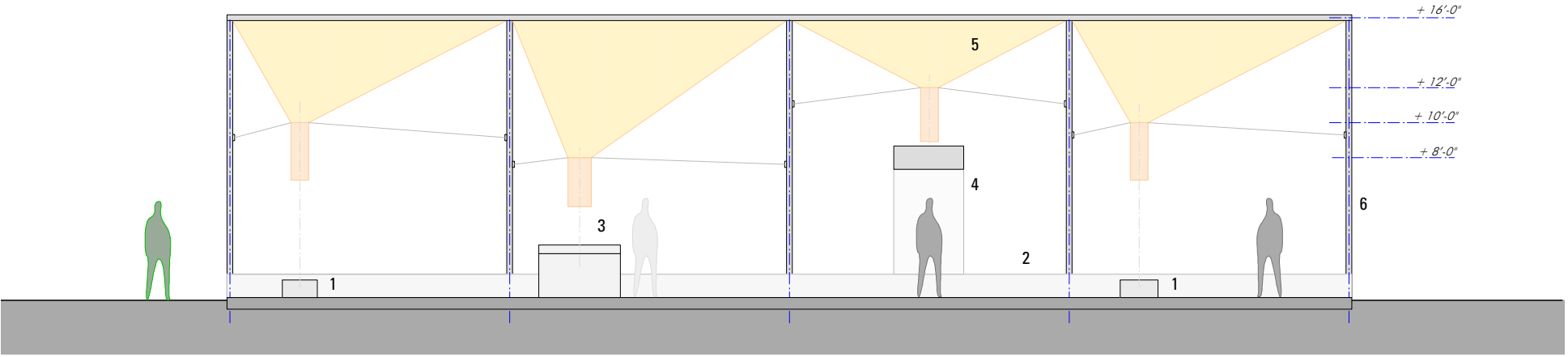
SHADE + WATER PAVILION

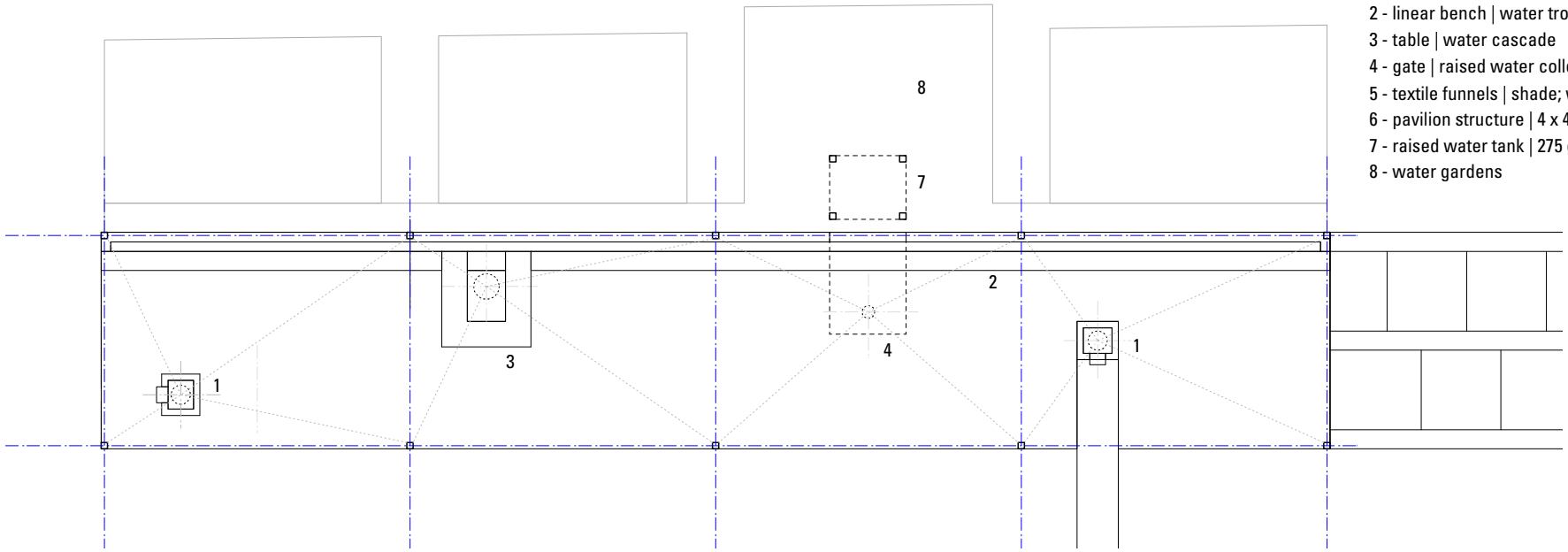
P R O P O S A L - ROOF PLAN



SHADE + WATER PAVILION

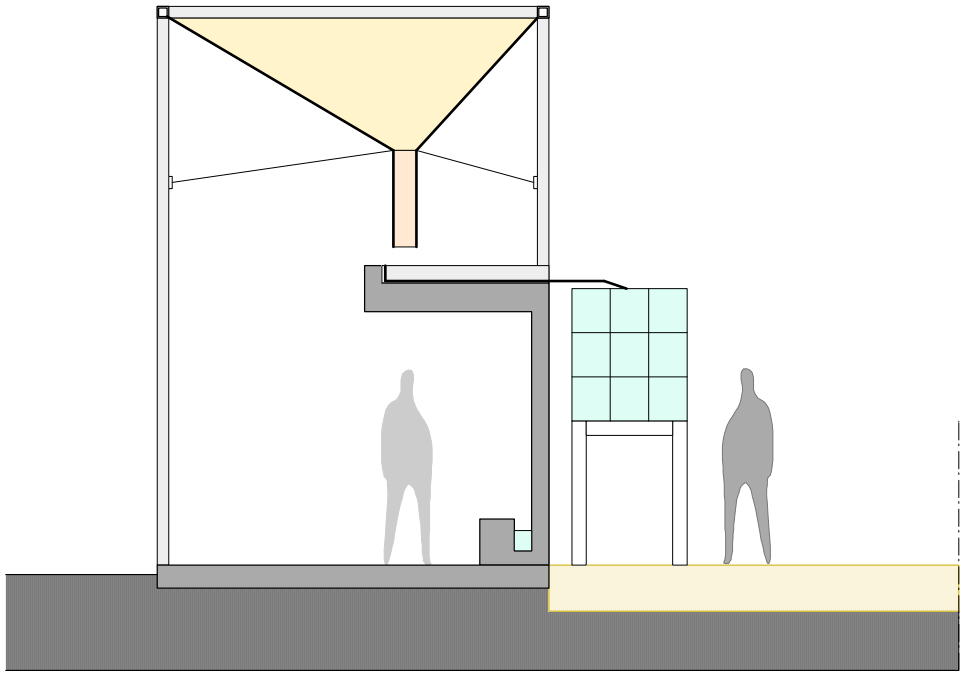
P R O P O S A L - ELEMENTS

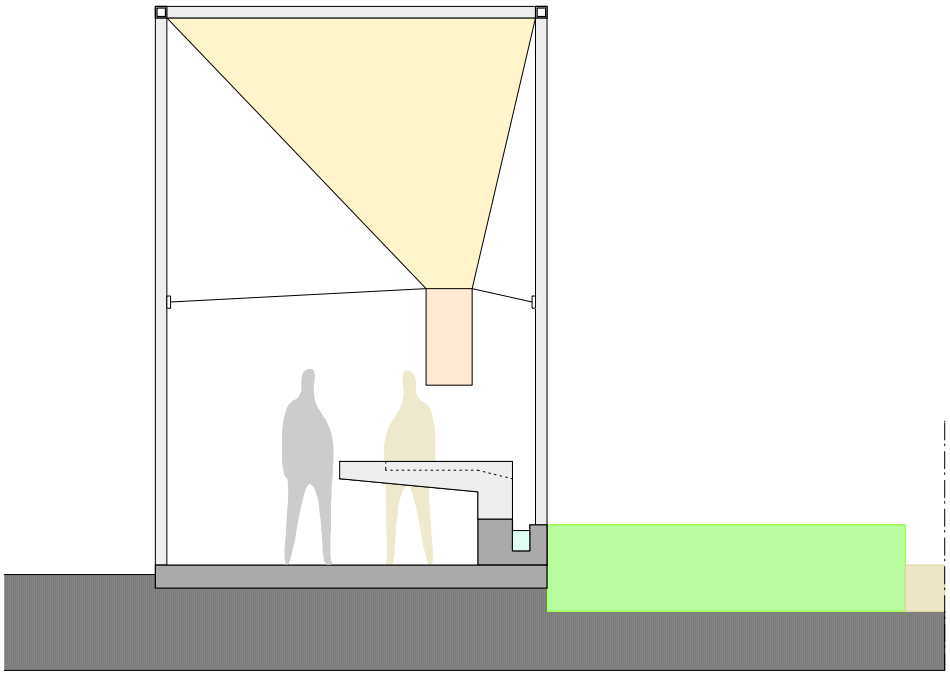




1 - water vessels | drain to rain gardens
2 - linear bench | water trough
3 - table | water cascade
4 - gate | raised water collection
5 - textile funnels | shade; water collection
6 - pavilion structure | 4 x 4 HTS steel
7 - raised water tank | 275 gallons
8 - water gardens

SHADE + WATER PAVILION
PLAN + ELEVATION





SHADE + WATER PAVILION

SECTIONS