Fountain Plaza and Art Gardens

Urban Revitalization through Urban Agriculture and Art Park

Fountain Hills, Arizona

Context map of Fountain Hills, Arizona

Site Information

Site: 15 Acres
Plants: Volunteer Plants, No Formal Plantings on Garden Plots
Parking Lot

General Information

Rain Water Collection
Support and is able to collect extra water and store on 33,500 sq ft of collection needed. The design can multiply that number by 5, and you get 82,600 sq ft of Rain Water Collection for every square foot of plantings to allow enough water for the plant to survive. For every 1 sq ft planting area, the plant needs 1 to 2 inches of water per week. The average production planting area = 3,300 sq ft + 3,400 sq ft = 6,700 sq ft. This means that the rain water collection will take roughly 5 square feet of rain water collection for every 1 sq ft of planting area. For example, a rain gutter is fitted around the tree line 3,400 sq ft of tree line = 17,000 sq ft of collection. 5 sq ft of collection for every 1 sq ft of planting area = 6,700 sq ft of planting area x 5 = 33,500 sq ft of collection.

Forms Derived from the Native Hohokam Culture

Rain Water Collection

Plants/Crops

Production Plants

Native Plants

Native Plants

Aloe Plant
Mexican Fan Palm Tree
Organ Pipe Cactus
Prickly Pear
Barrel Cactus
Saguaro Cactus
Mesquite Tree
Strawberry Hedgehog
Peach tree
Lime Tree
Pomegranate
Tree
Onion
Lettuce
Kale
Asparagus
Celery
Watermelon
Bok Choy
Brussel Sprouts
Garlic
Potatoes
Tomatoes
Sweet Corn
Celery
Radishes
Broccoli
Turnips

Average High/Low Temperatures and Rainfall for Fountain Hills

<table>
<thead>
<tr>
<th>Month</th>
<th>Average High/Low Temperatures</th>
<th>Rainfall</th>
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<tbody>
<tr>
<td>Jan</td>
<td>L=59°F, H=86°F</td>
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<tr>
<td>Feb</td>
<td>L=54°F, H=86°F</td>
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<tr>
<td>Mar</td>
<td>L=59°F, H=86°F</td>
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<tr>
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<td>L=69°F, H=93°F</td>
<td>1.28&quot;</td>
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<tr>
<td>Jun</td>
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<td>1.02&quot;</td>
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<tr>
<td>Jul</td>
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<td>1.10&quot;</td>
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<tr>
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<td>Dec</td>
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Forms Derived from the Native Hohokam Culture

Garden  Plots

Community

Parking Lot

Fountain Park

Day View of Fountain Park

Night View of Fountain Park

City Limits Of Phoenix, AZ. Fountain Hills

Phoenix

Scottsdale

Fountain Hills

Study Site in Fountain Hills
Perspective looking Southwest across Fountain Plaza and Art Gardens
Completing the Avenue of the Fountains Streetscape to further promote commerce and draw visitors to Fountain Hills.

Design an Urban Agriculture installation that generates produce for area businesses and a local farmers market to start.

Harvest storm water to be reused as the main source of irrigation for the plants on this site.

Further develop the existing Fountain Hills Art Walk and introduce new art into the landscape through sculptures, shade structures, and plant specimens.

Create a connection between Fountain Park (across the street) and Fountain Plaza and Art Gardens for community events to be held simultaneously between the two.

Design a plaza and open spaces for events to be held at a community and individual scale.

Program

- Complete the Avenue of the Fountains Streetscape to further promote commerce and draw visitors to Fountain Hills.
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