

Webber Park

WEBBER NATURAL SWIMMING POOL



BACKGROUND

Webber Natural Swimming Pool is a constructed and contained swimming vessel that uses plants and natural microbes from a nearby regeneration pond to clarify and purify the water instead of chemicals for sterilization or disinfection.

First chemical-free, all natural public swimming pool in the United States.

Webber Swimming Pool consists of:

- 16,800 square foot Swimming Area and Lap Pool
- 4,500 square foot Wading Pool

2,950 square foot multi-purpose, temperature controlled "Bathhouse" with common spaces, restrooms, sand beach play areas, grassy lounge areas, outdoor pool-side showers and winter warming house spaces for Ice-Skating/Hockey pond for winter activities.

16,250 square foot Regeneration Basin for natural filtration with plants and microbes providing biological cleaning of the water. There are over 7,600 plants and 36 different species of plants within the regeneration basin.

74-Stall parking lot expansion/reconstruction and 2,650 lineal feet of new walking/biking paths.

Other amenities including: relocation/reuse of historic park benches, bike racks, rain gardens, site lighting, site fencing, accommodation for food trucks and much more.

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CONSTRUCTION SCHEDULE

The team has developed the following tentative schedule:

AUG 19, 2013	Construction Starts on Pool, Parking Lot and Bathhouse Facility
NOV 1, 2013	Completion of Parking Lot
NOV 15, 2013	Regeneration Zone Substantially Complete
MAY 31, 2014	Plants Transplanted to Regeneration Zone
MAY 31, 2014	Bathhouse Complete
JULY 1, 2014	Pool Filled and Circulation System Start-up
AUG, 2014	Grand Opening of Webber Natural Swimming Pool

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PROJECT EXPLANATION:

A Natural Swimming Pool, hereinafter referred to as an NSP, cleans water without any chemicals. Rather, the water is purified naturally by the movement of the water through filters and the biological functioning of plants and microorganisms.

The circulation consists of water first flowing out of the Swimming Zone by gravity through overflow gutters. It then flows into the biological fine-filters, which collect larger debris and particulate matter. The water then continues to flow, by gravity, into the Regeneration Zone where it goes through layers of substrates in which aquatic plants are rooted. Finally, a circulation pump draws the water out of the Regeneration Zone and returns it back up to the Swimming Zone.

In the Regeneration Zone, biological principles are at work breaking down undesirable components in the water and transforming them into nutrients for the microbes and the plants. It is important to note that there is no soil of any sort in this system. Because there is no soil, plants and microbes must obtain all nutrients from the NSP's water. These plants and microbes are competing for the nutrients that would otherwise feed algae growth.

In this way, the NSP is a balanced ecosystem where all plants, microorganisms, and introduced nutrients are interrelated to create true "living water". This is in contrast with the sterile water of a traditional swimming pool, in which chemicals are introduced to kill all forms of life except for the swimmers. An NSP clarifies and purifies its water optimally when all of the biological factors are present in the correct ratios, which is called stability.

Legend

- pipe fresh water
- pipe from overflow channel
- pipe treated water
- pipe refuse water pool
- - - - - compressed air
-  measuring water level
-  dry run protection and time switch
-  valve
-  Pump
-  Compressor

