

Aquatics Master Plan

Department of Park & Recreation

June 4th, 2019



Aquatics Master Plan Options

- Option 1

- 3 Rebuilt Regional Pools
- 1 Updated Neighborhood Pool
- 7 New Splash Pads

- Option 2

- 1 Water Park
- 1 Updated Neighborhood Pool
- 9 New Splash Pads

- Option 3

- 6 Updated Neighborhood Pools
- 6 New Splash Pads



OPTION 3

- Pools:
Aley, College Hill, Harvest, McAdams, Minisa, Orchard
- Splash Pads:
Boston, Edgemoor, Evergreen, Harrison, Linwood, Planeview
- Estimated Cost Recovery: 60%
- \$625,089 Operational Cost of Pools
- \$249,696 Operational Cost of Splash Pads
- 312 Open Swim Hours per Week (52 hours per 6 pools)

Aquatics Master Plan

- Operational Changes
 - Current open swim hours:
 - 1:00 pm – 6:00 pm, 6 days a week.
 - 30 open swim hours a week per pool.
 - New open swim hours:
 - 11:00 am – 5:00 pm, 6:00 pm – 9:00 pm, Monday – Friday
 - Noon – 6:00 pm, Saturday and Sunday.
 - 52 open swim hours a week per pool.
 - Current season:
 - Memorial Day – First weekend in August for most locations.
 - New season:
 - Memorial Day – Start of School, weekends only until Labor Day.

LOCATIONS

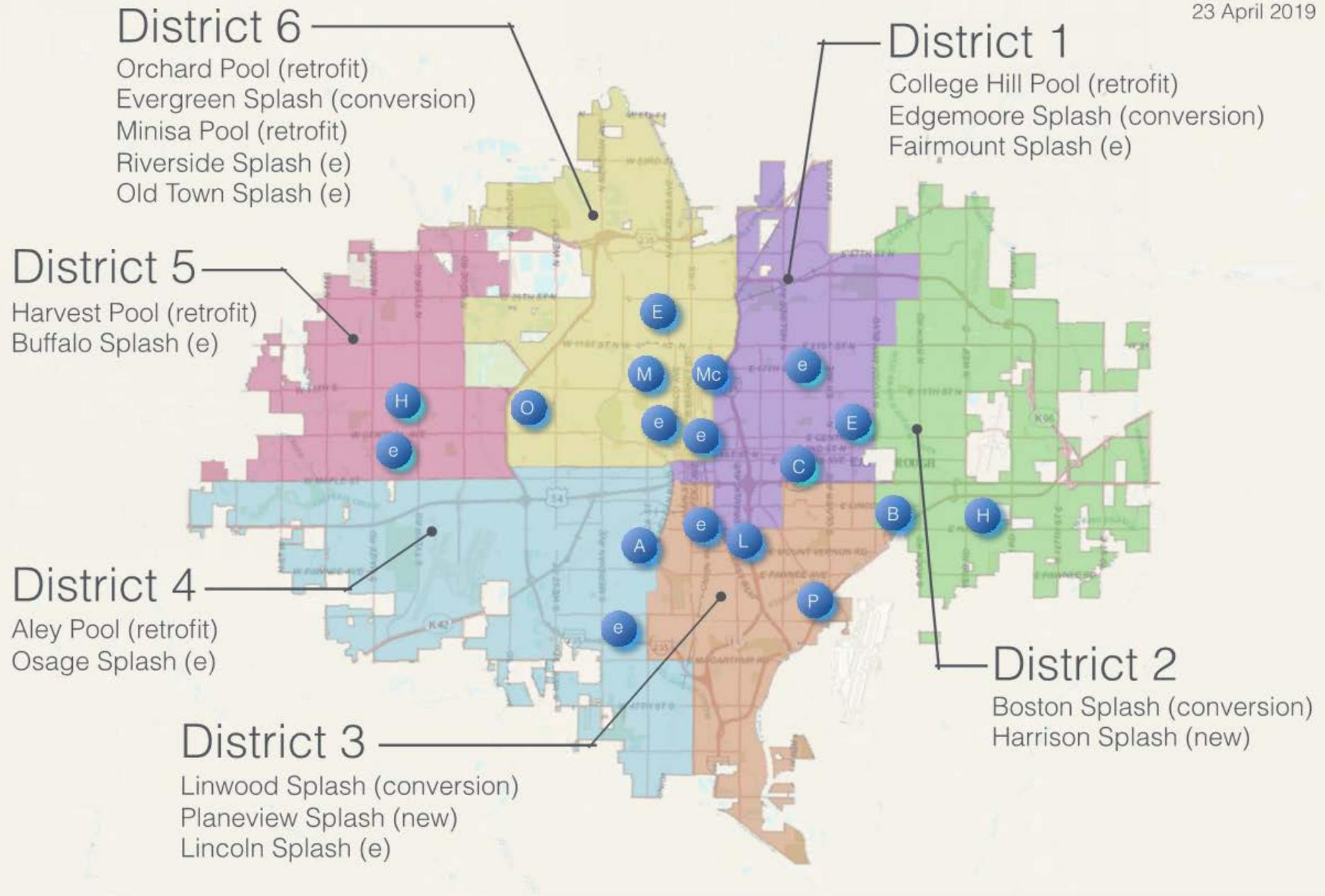
Renovated Pools

Aley	Phase 1
College Hill	Phase 2
Harvest	Phase 2
McAdams	Phase 1
Minisa	Phase 2
Orchard	Phase 1

Water Playgrounds

Boston	Phase 1
Evergreen	Phase 1
Edgemoor	Phase 1
Harrison	Phase 2
Linwood	Phase 2
Planeview	Phase 2

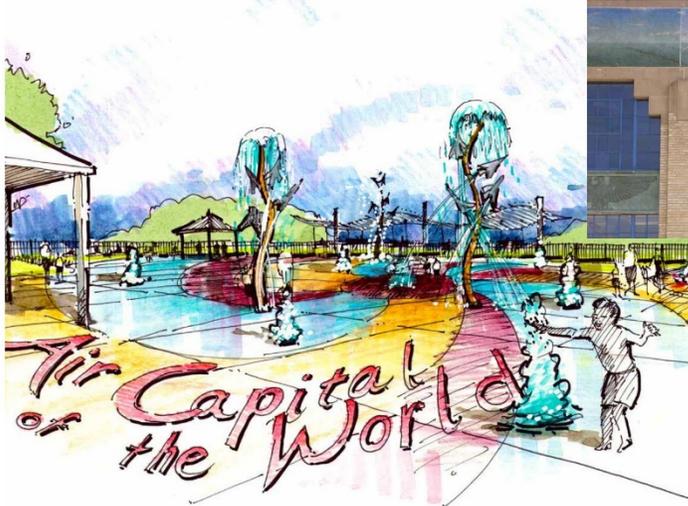




BOSTON PARK POOL



BOSTON PARK 'AVIATION' WATER PLAYGROUND



Left: A character sketch depicting the central wet play area proposed for Boston Park; Above: The Art Deco style architecture exhibited on the facade of the former Wichita Municipal Airport inspired the design of certain features in this water playground; Left: Early airplanes such as this 1929 Swallow quickly became the bedrock for the Wichita aviation industry and will be featured in this water playground.



Theme

This water playground celebrates Wichita's legacy as the "Air Capital of the World." It showcases historic aircraft originally manufactured in Wichita, such as the Swallow. The design of the spaces and certain play elements is inspired by the Art Deco style architecture found on the Kansas Aviation Museum, which originally served as the Wichita Municipal Airport.

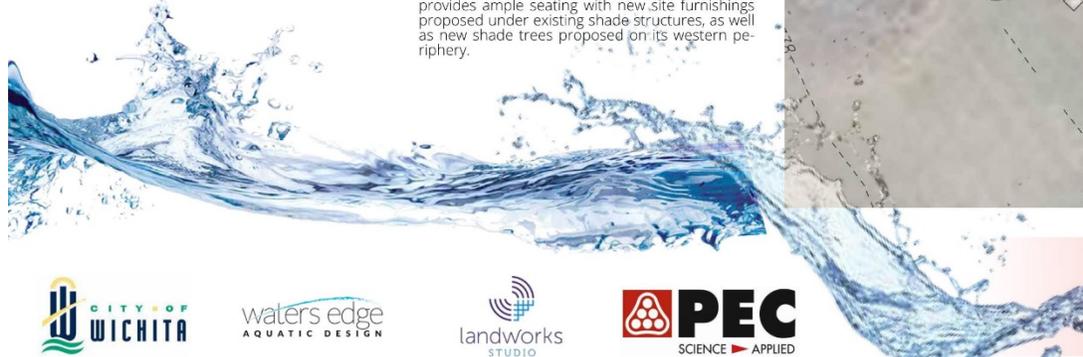
Site Impact

This playground is located within the footprint of the existing Boston Park swimming pool near the northwest corner of E. Boston and E. Zimmerly Streets. The design retains the existing chain link fence surrounding the existing pool. The primary pedestrian access to the playground will continue to be through the existing bathhouse structure. The design retains this structure which will receive

limited architectural modifications to redirect visitor access to bathrooms and the playground itself. The design also retains two existing shade structures.

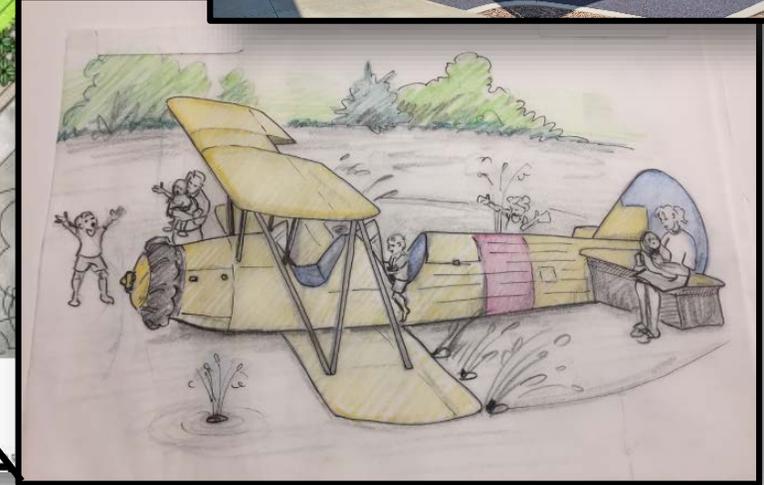
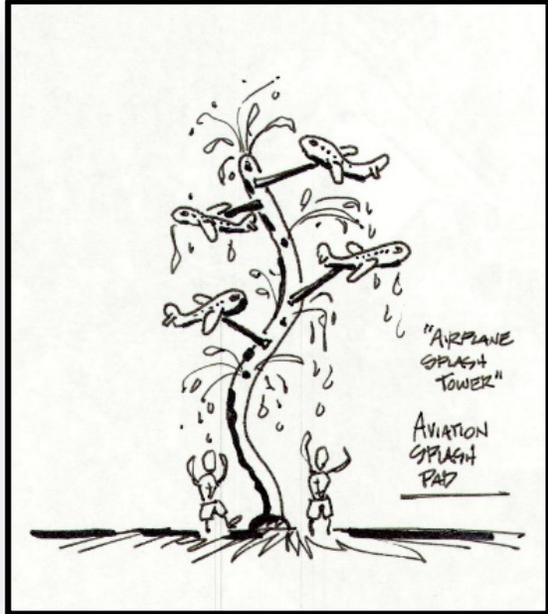
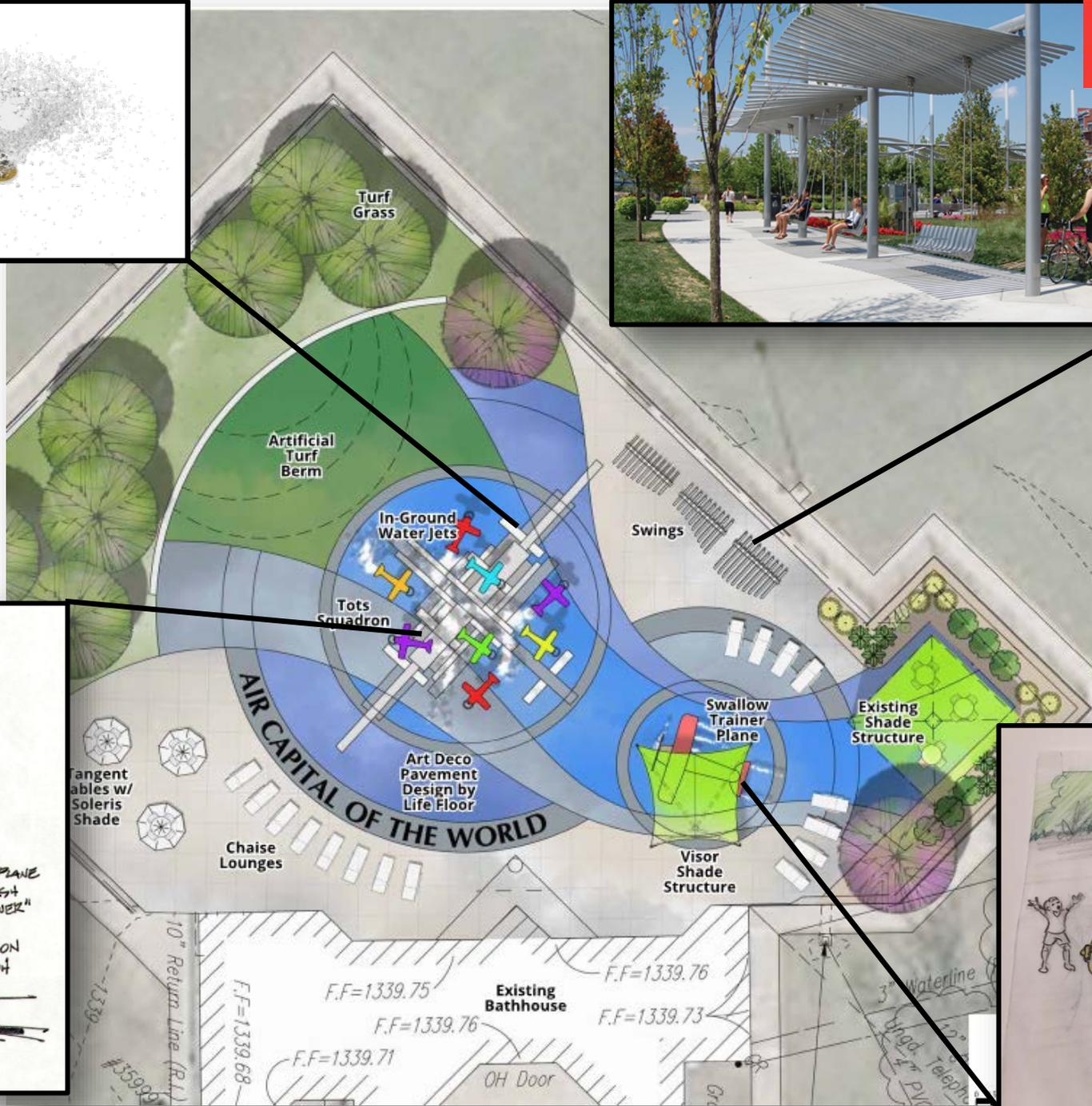
Play Spaces & Elements

The focal wet play feature in the central portion of the playground is the Tots Squadron, consisting of tall pipes topped with water spraying airplane cut-outs. The other wet play feature is a scaled-down Swallow Trainer Plane intended to be climbed in and around and surrounded by other in-ground jets. The ground plane is anchored by a large Art Deco style airplane paved in rubberized Life Floor surfacing. Colorful and voluptuous patterns, arrayed on either side of the airplane, illustrate its contrails. This space is punctuated by a series of in-ground water jets. A berm of artificial turf frames the northwest edge of the splash area for sunning and open play. Large commercial grade swings flank the east side of the space. The playground provides ample seating with new site furnishings proposed under existing shade structures, as well as new shade trees proposed on its western periphery.



Design Development | Wichita Aquatics
May 10, 2019 | Wichita, KS

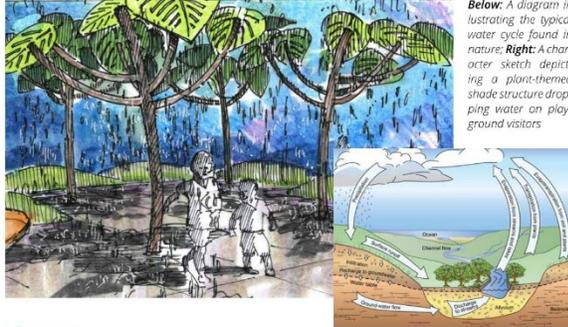
BOSTON PARK 'AVIATION' WATER PLAYGROUND



EDGEMOOR PARK POOL



EDGEMOOR PARK 'WATER CYCLE' WATER PLAYGROUND



Theme

The water playground proposed for Edgemoor Park follows the natural cycle of water. Water is a precious resource and as more public attention is paid to its quantity and quality, this playground presents an opportunity to educate park visitors through water play. Spaces and play elements in this water playground are inspired by the journey water takes through not only its natural cycle but also municipal conveyance systems.

Site Impact

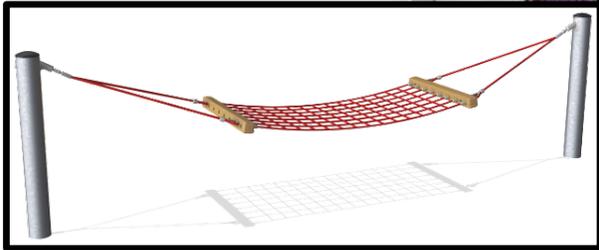
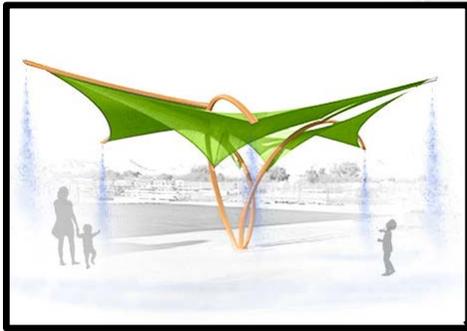
This playground is located within the footprint of the existing Edgemoor Park swimming pool near the southeast corner of E. 9th Street N. and N. Edgemoor Street. The design retains the existing chain link fence surrounding the pool. The design also retains the steps and terraces which frame the south, west and north edges of the pool deck. The existing bathhouse structure on the east side of the pool deck remains but is slated to receive specific architectural modifications. The restrooms are to be upgraded and the primary visitor entry is to be relocated. Pedestrian access to the playground no longer passes through the building but instead through a new gateway on its south side.

Play Spaces and Elements

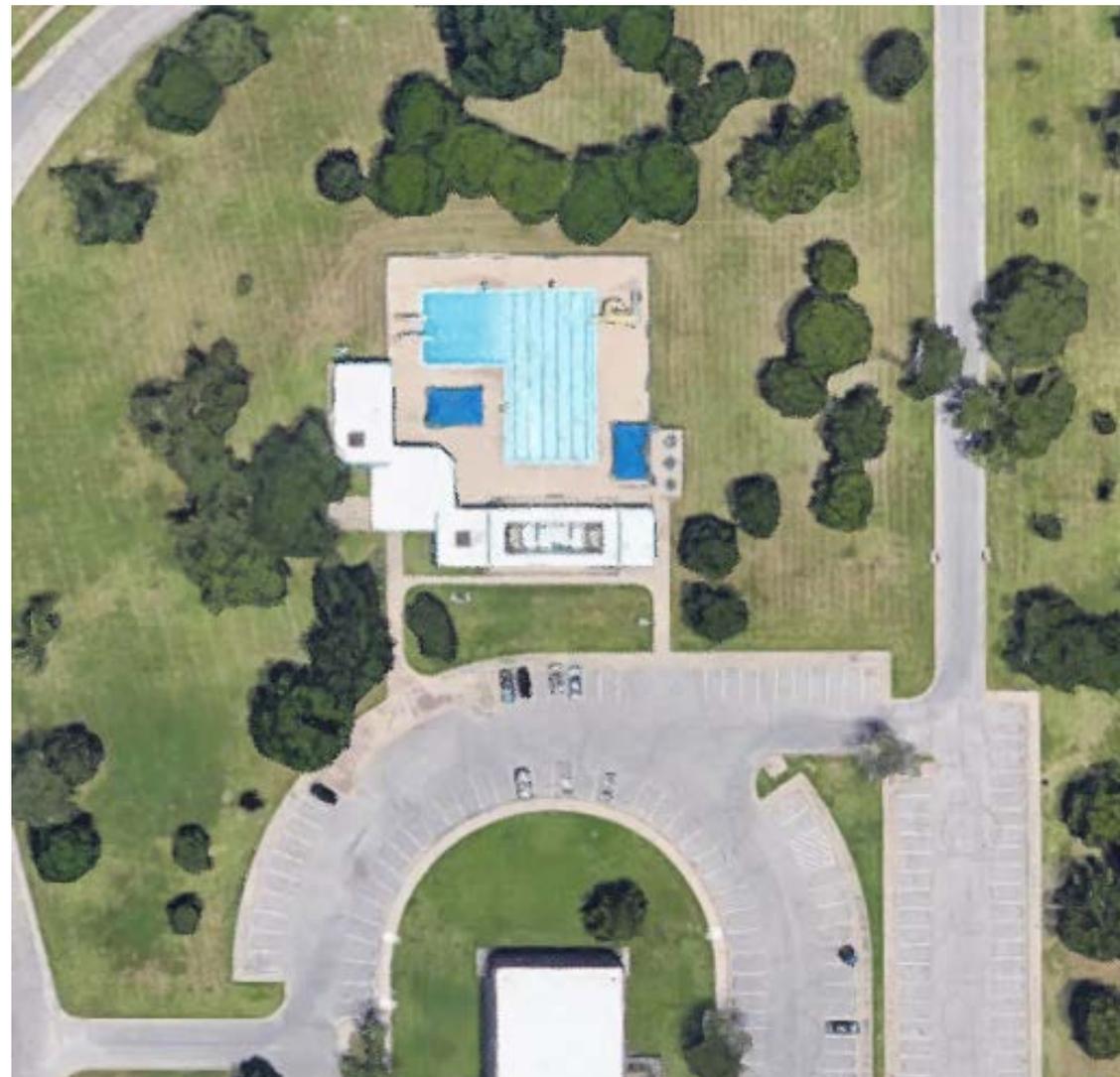
The new entrance brings visitors into the south end of the playground near an area focused on the natural water cycle. This area features a Trillium shade structure enabled with drip emitters, to represent a natural tree canopy and precipitation. Beneath this canopy are in-ground water jets forming the headwaters of a stream surrounded by a custom rock seating area and a composite fishing dock. The dock allows visitors to sit or lay back and dangle their feet and hands into the water just inches below. Nearby, a series of hammocks offer opportunities to relax or swing. Further north along the stream, a larger open area offers visitors the chance to play and splash over random ground spray and jet nozzles. Continuing north, past a berm covered in artificial turf, the water flows under a pair of shade structures before reaching the water works. The water works splash structure includes panels and play elements customized to demonstrate the process behind municipal water operations. The area adjacent to the water works includes wet play elements suitable for small children such as fire hydrants and valves for engaging wet fun. The design breaks up the existing stepped terrace with retaining walls, landscaped planting beds, and shade trees. The existing toddler pool in the southeast corner is to be filled in and covered with a new Sundala shade structure to provide a dry gathering space for picnics and parties.



EDGEMOOR PARK 'WATER CYCLE' WATER PLAYGROUND



EVERGREEN PARK POOL



EVERGREEN PARK

'AZTEC' WATER PLAYGROUND



Left: A character sketch depicting the central wet play area proposed for Evergreen Park. Above and Left: Aztec iconography and craft inspire the design of the ground plane and primary wet play elements in this water playground.

Theme

The newest amenity at Evergreen Park is a water playground themed upon elements of ancient Aztec culture. Early in the schematic design phase of the project, neighborhood representatives provided input that local residents would appreciate a playground themed around Aztec and Mesoamerican culture. Moving forward, the design team has envisioned a water playground designed to resemble a hidden ruin site nestled within Evergreen Park. The ground plane and primary wet and dry play features are inspired by Aztec iconography and craft.

Site Impact

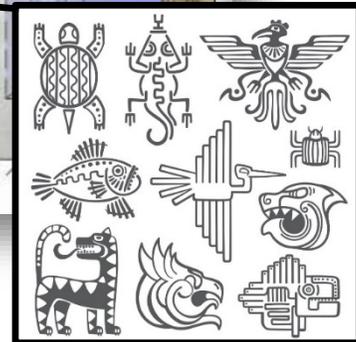
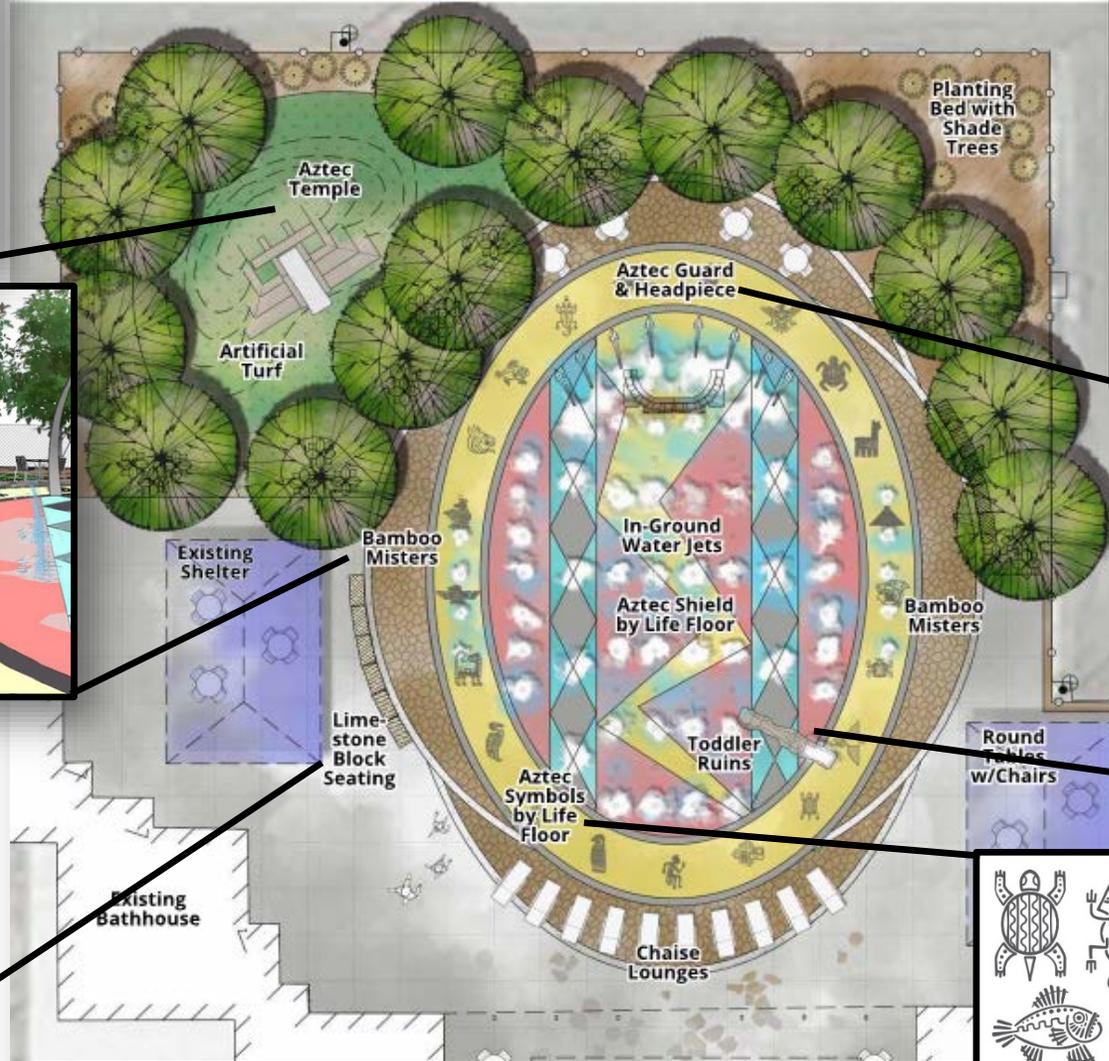
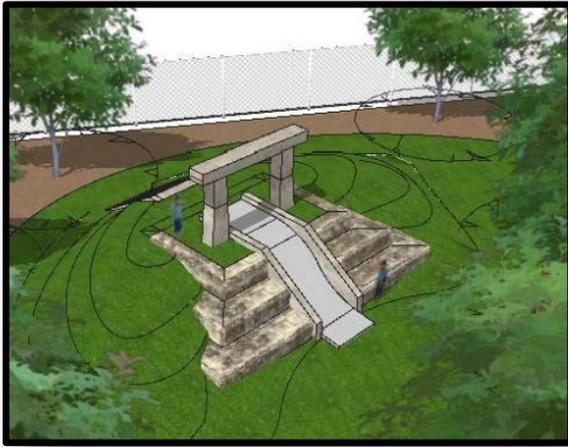
This playground is located within the footprint of the existing Evergreen Park swimming pool near the southeast corner of W. 27th Street N. and Woodland Street. The design retains the existing chain link fence surrounding the existing pool. The design retains the existing bathhouse structure which will receive limited architectural modifications to redirect visitor access to bathrooms and the playground itself. The primary pedestrian access to the playground will pass through an area on the south side of the existing pool presently occupied by a kiddie pool under an existing pergola-type structure. The design also retains two existing fabric shade structures located on the pool deck.

Play Spaces & Elements

Upon entering the playground through a new entryway on its southern edge, visitors will be dazzled by Aztec and Mesoamerican imagery and themed play elements. The ground plane is paved with decorative concrete and a colorful rubberized surface called Life Floor and is laid out in the shape of a large Aztec warrior shield. The interior of this large elliptical space is dotted with numerous in-ground water jets. Inlaid into the pavement on the periphery of the shield, is a series of more than a dozen ancient Aztec symbols. Cut limestone blocks and new site furnishings are situated further out from the periphery to offer ample seating. In the southern half of the shield, an archway and attached water table themed to resemble a ruin from antiquity provide multiple play experiences for younger children. The main focal feature is the Aztec Guard, a large Aztec face mask on the northern end of the shield, flanked by a feather-like headpiece. Inspired by Aztec iconography, this life-size sculpture will be a highly interactive element. Large enough for visitors to walk through, this god-like being will feature sound, light, and water elements, as well as an activator panel built into its face. Visitors will have the ability to trigger programed sequences of light, sound, and spray by entering codes into the activator panel based on the Aztec symbols arrayed on the edge of the shield. The playground is designed to provide multi-sensory experiences that will keep visitors coming back time and time again. Beyond the wet play features in and around the Aztec shield, the playground also includes a dry play feature designed to resemble an ancient Aztec temple. Built into a ziggurat covered in artificial turf, visitors can climb up a hill, crawl under a limestone arch, and slide back down an embankment slide. Ample landscaping and new shade trees on the northern edge of the playground create a verdant backdrop to this active space.



EVERGREEN PARK 'AZTEC' WATER PLAYGROUND



ALEY POOL



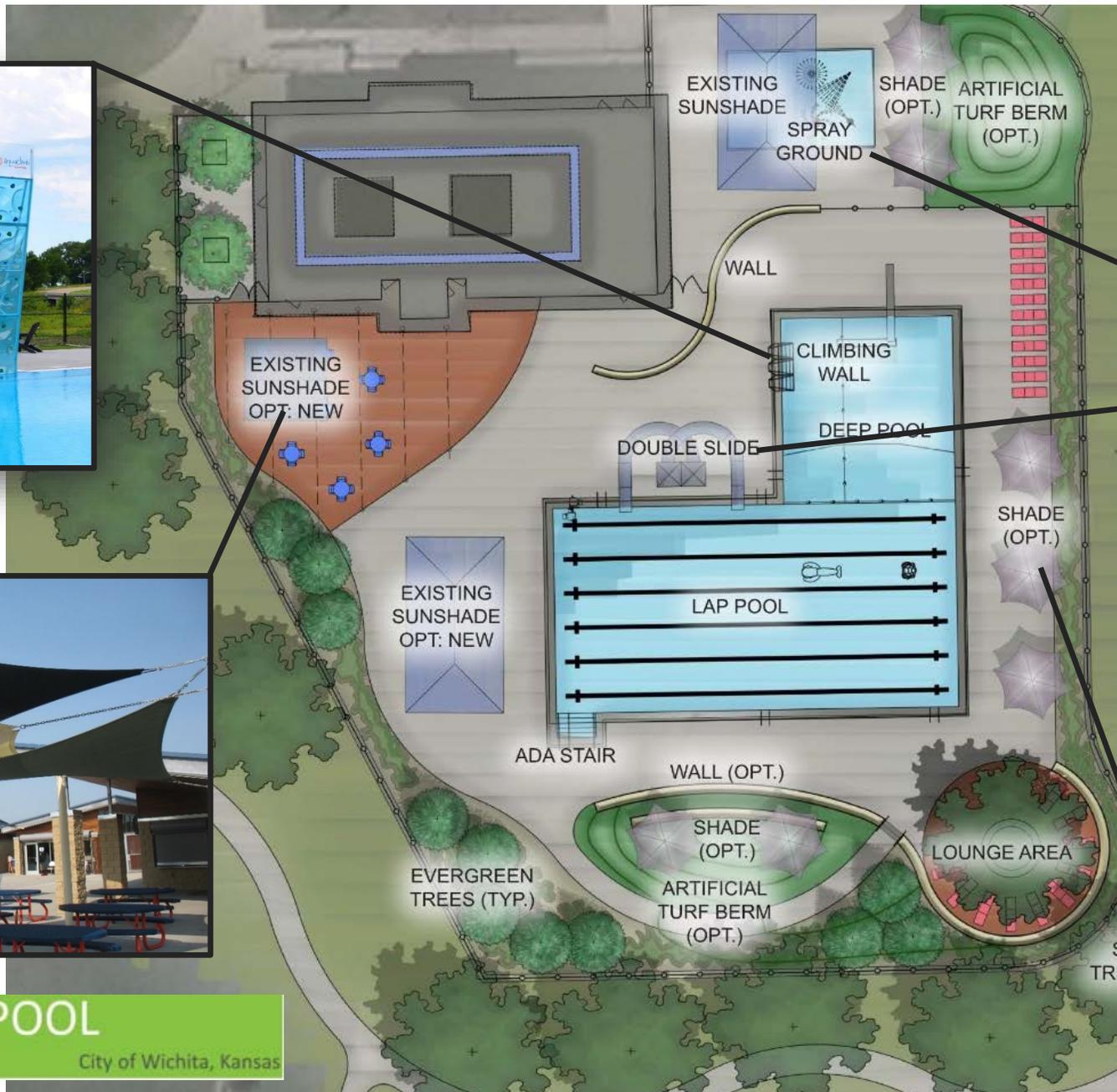


ALEY PARK POOL

City of Wichita, Kansas

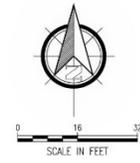
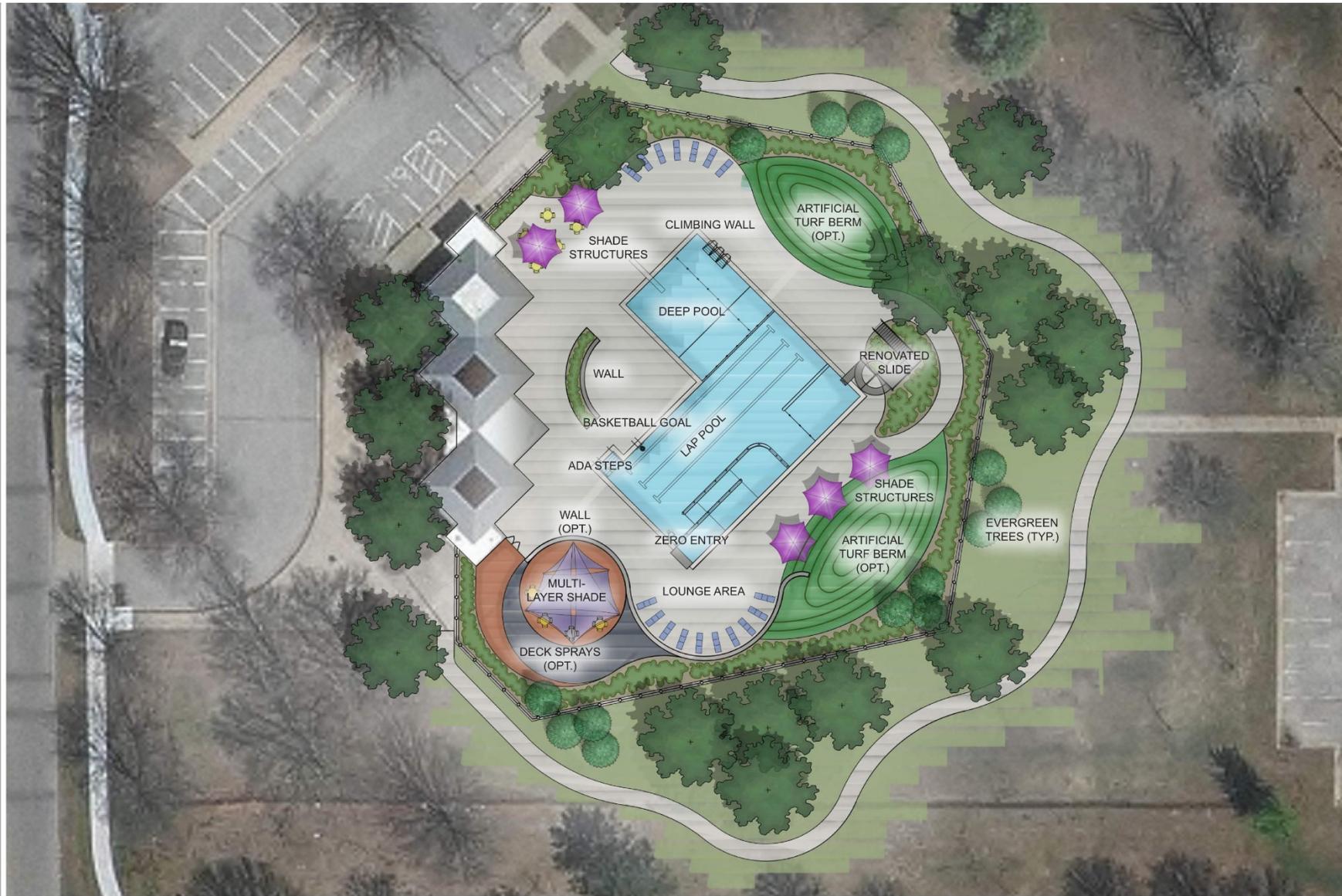


ALEY PARK POOL
City of Wichita, Kansas



ORCHARD POOL





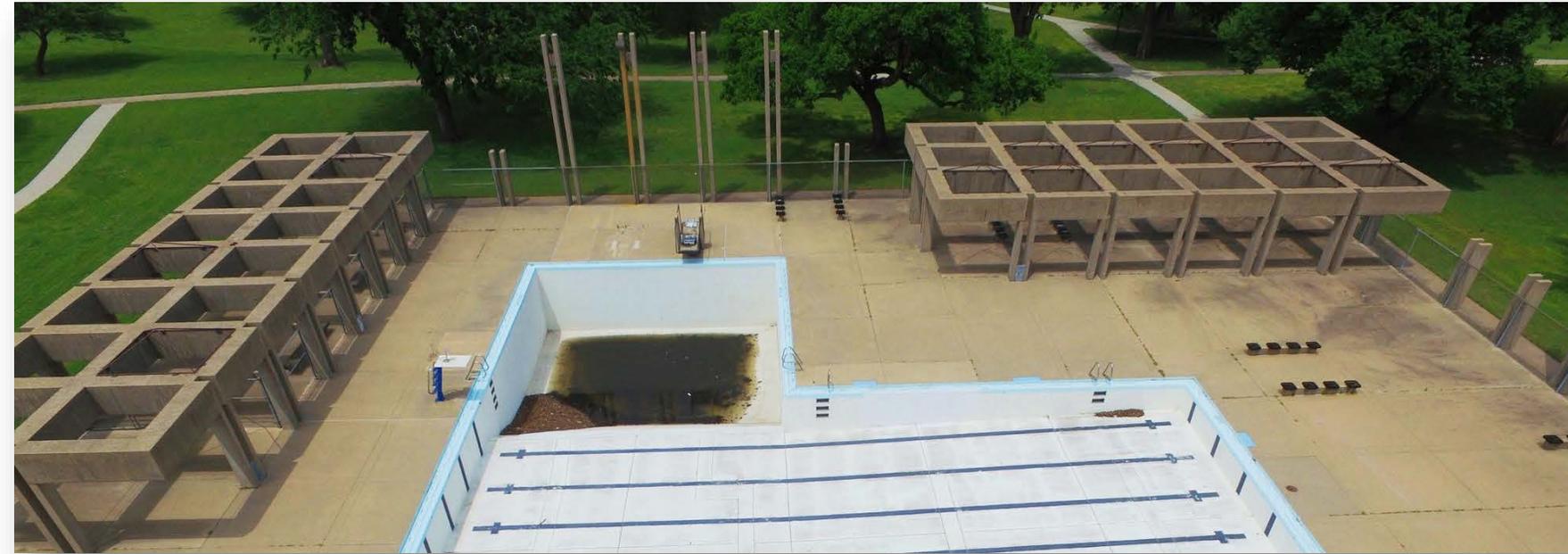
ORCHARD PARK POOL

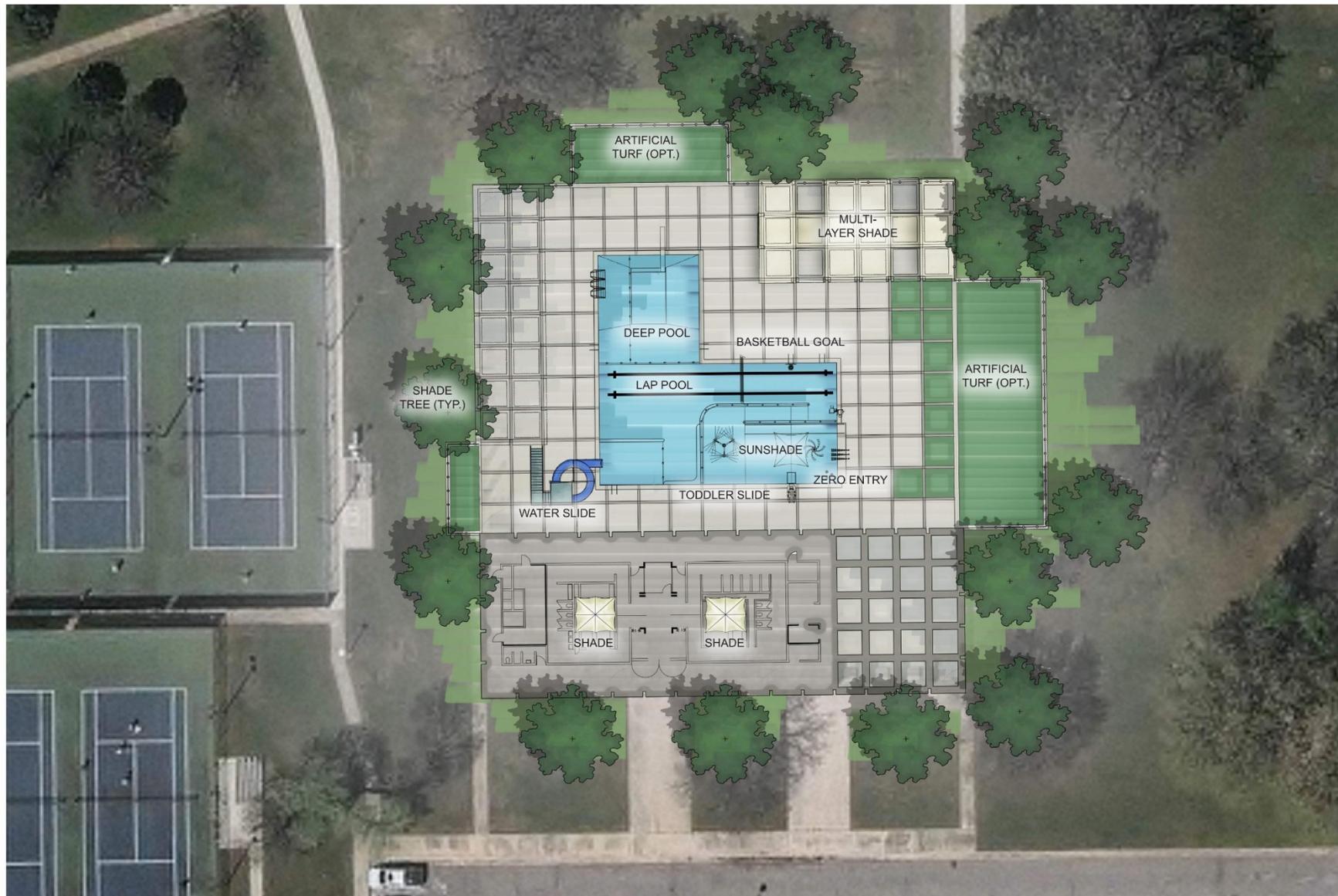
City of Wichita, Kansas



ORCHARD PARK POOL
City of Wichita, Kansas

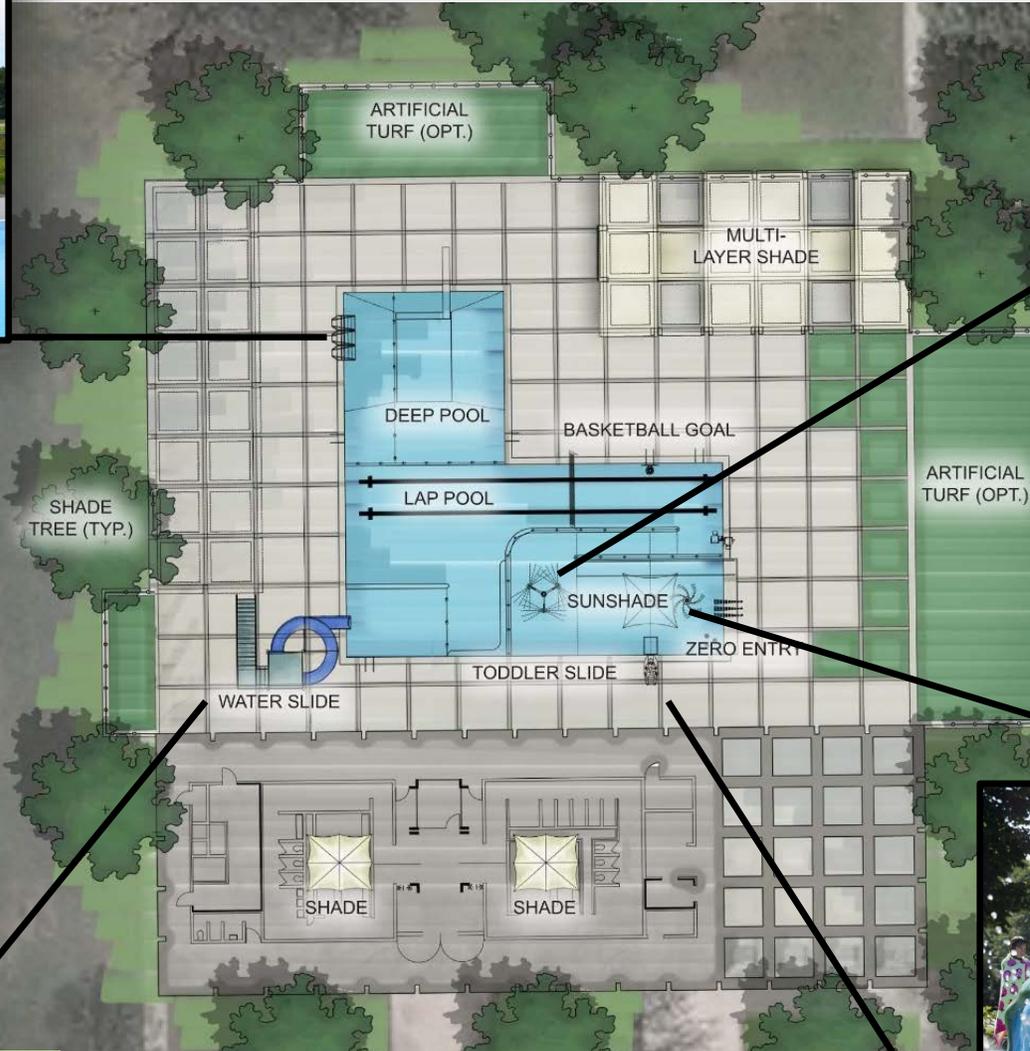
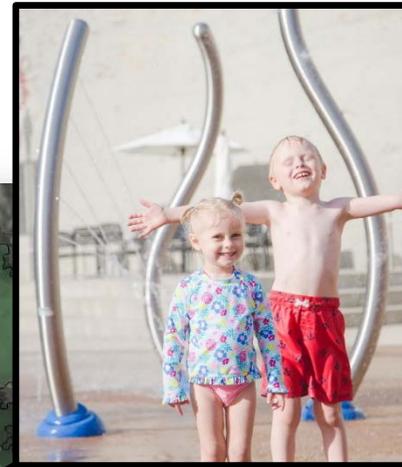
MCADAMS POOL





MC ADAMS PARK POOL

City of Wichita, Kansas



MC ADAMS PARK POOL

City of Wichita, Kansas

HARRISON PARK



Berms



Restrooms & Playground

HARRISON PARK 'OASIS' WATER PLAYGROUND



Left: A character sketch depicting the central wet play area proposed for Harrison Park; Above and Below: The design of this water playground drew inspiration from secluded watery landscapes such as desert oases and tropical lagoons.

Theme

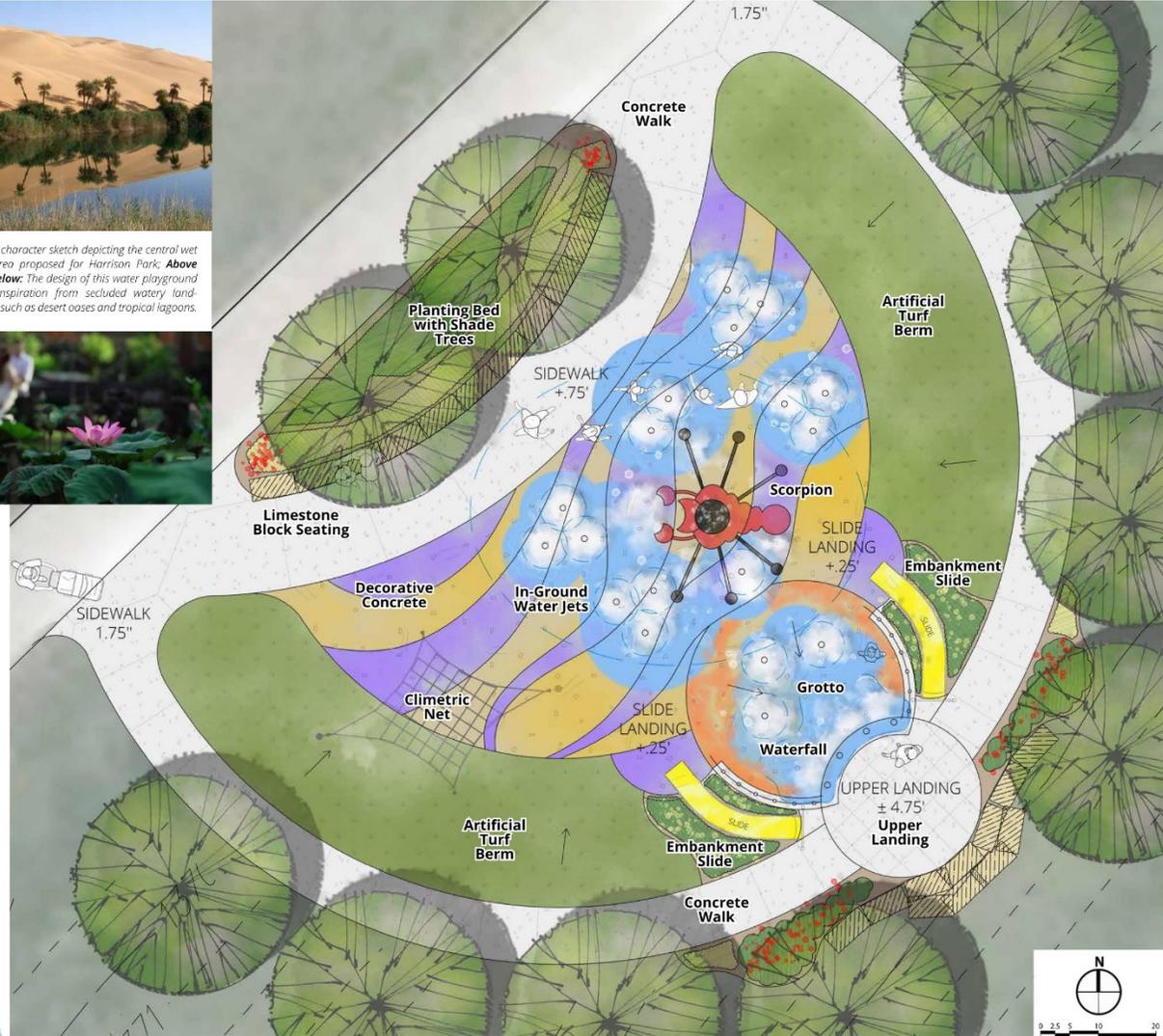
For the newest amenity in Harrison Park, the design team sought to create a hidden gem. This existing 40-acre park on the City's west side is characterized by ball fields, a sizable pond, and, in general, wide open spaces. In designing this water playground, we wanted to create a space that would feel like a place unto itself; a place that would give visitors a sense of refuge and seclusion within this otherwise vast park. We drew inspiration from watery landscapes as diverse as tropical lagoons and desert oases. Ultimately, given the typical Wichita summer climate, we felt an "oasis" theme was most appropriate.

Site Impact

The water playground is located in the west half of Harrison Park, an approximately 400-foot walk from the existing parking lot on S. Webb Road. The proposed location for the water playground sits on the south side of an existing 10-foot wide concrete walk, nestled into the northwest side of a large grassy berm. This location adjacent to an existing walkway and in proximity to the Webb Road parking lot will provide for simple construction mobilization as well as safe and easy access for future park visitors. We are taking advantage of the existing topography and relatively barren slope to create a grassy bowl space framed by a hillside planted with new shade trees.

Play Spaces and Elements

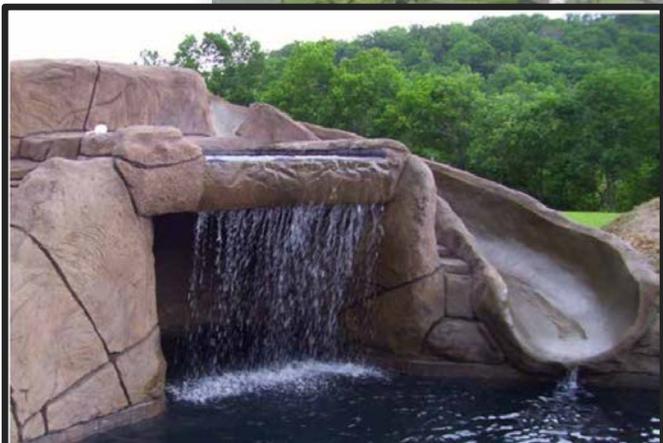
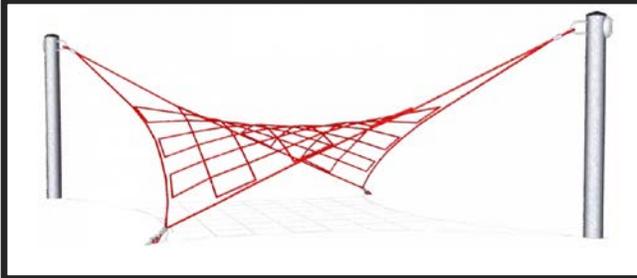
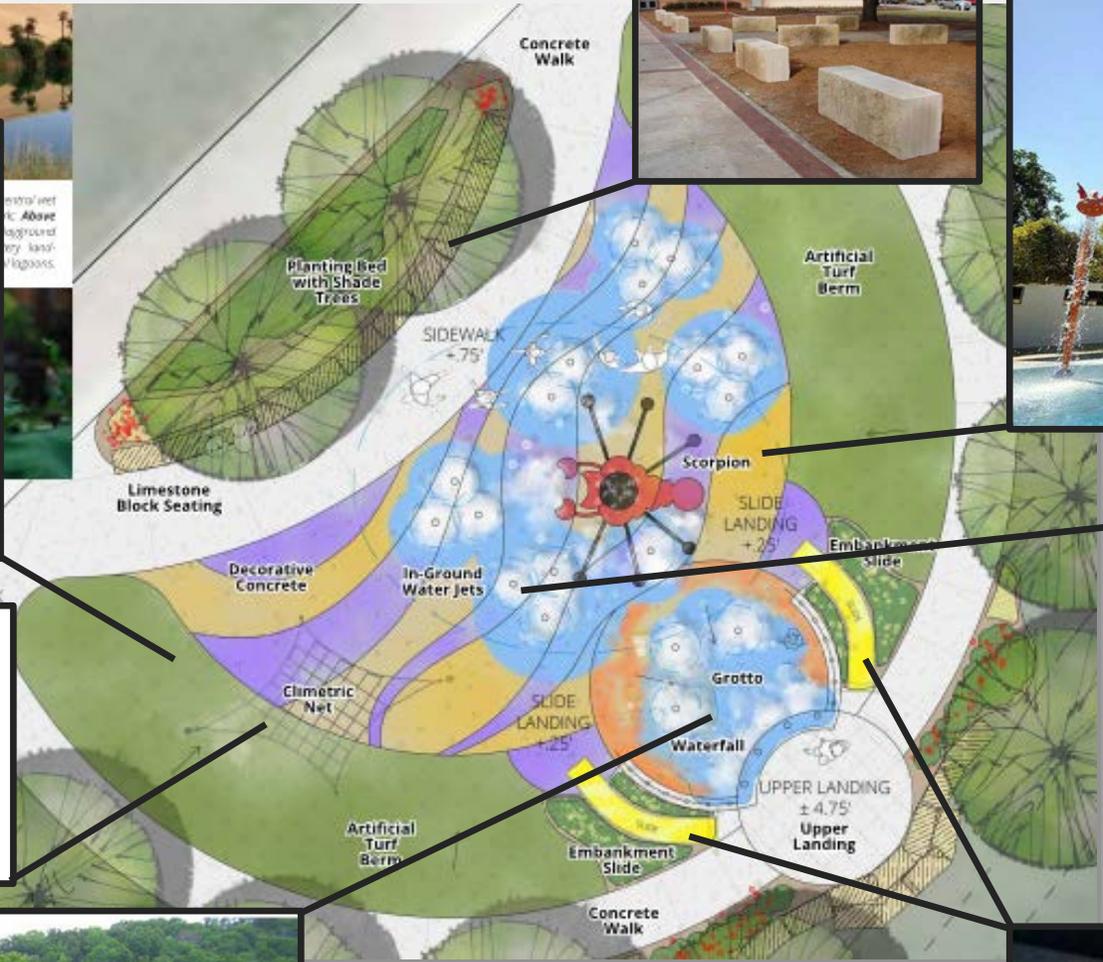
Visitors approaching this playground on the concrete walk initially notice the ring of new shade trees at the perimeter with intermittent views of the primary wet play elements: a giant water-squirting scorpion and a gurgling grotto. The playground is framed by a large semicircular sidewalk that traverses up and down a 5-foot gradient. The sloping sides of this bowl are covered in artificial turf and provide multiple play, viewing, and sun-bathing experiences. A cable play structure on the south slope offers both wet and dry play experiences. An upper landing sits at the zenith of the walkway, giving visitors views to the oasis plaza below. This plaza is paved in decorative concrete and punctuated by numerous in-ground water jets. Twin embankment slides provide a quick drop back down to the oasis. These slides, along with the retaining wall on the northwest side of the upper landing, create a grotto below. The grotto is distinguished both by its decorative concrete floor and the noise of water splashing down from an overflowing trough hung high on the retaining wall. Out in the plaza, the giant scorpion delights visitors as it sprays water from jets embedded in its legs, pincers, and tail. A row of cut limestone blocks underneath new trees on the northwest side of the plaza provide ample seating. Whether visitors are seeking wet or dry play opportunities, views of the park, or just rest and respite, this playground offers it all.



HARRISON PARK 'OASIS' WATER PLAYGROUND



Central area
to Above
ground
by land
logos.



LINWOOD PARK POOL



LINWOOD PARK 'MOSSY STONES' WATER PLAYGROUND



Left: A character sketch depicting the central wet play area at Linwood Park; Above: Water wheels and mills similar to this were common features on Wichita creeks in the 19th century; Right: Mossy stones like these inspired the wet play elements of this playground.



Theme

The theme for this water playground has evolved through the schematic and design development phases into one focused on the history of the site. While today Chisholm Creek is confined to a narrow concrete channel in the middle of I-135, it was once a free-flowing stream that meandered past the eastern edge of historic Wichita and through the middle of this present-day park. Water-powered mills dotted the edge of this and other 19th-century Wichita waterways. The design of this playground is inspired by these long bygone uninhabited creeks and our early attempts, as settlers, to harness their power.

Site Impact

This water playground is situated inside the fenced area occupied by the existing pool at Linwood Park near the northeast corner of E. Mt. Vernon and S. Hydraulic Streets. The design retains the existing chain link fence surrounding the existing pool. The primary pedestrian access to the playground will continue to be through the existing bathroom structure. The design retains this structure which will receive

limited architectural modifications to redirect visitor access to bathrooms and the playground itself.

Play Spaces & Elements

Water flows from west to east through the playground in a shallow 1-3-inch deep meandering stream paved in decorative concrete. The journey created by this stream begins with small in-ground water jets nestled between two large artificial turf covered berms, beckoning visitors to bask in the sun. The stream continues eastward between piles of soft-play jumping boulders. These play elements are sculpted in geofoam, topped with rubberized cushioning, and covered in artificial turf. Ranging in height from 1 to 4 feet and punctuated with mist emitting spray nozzles, they create a very unique play experience. The stream continues past the playground focal feature: a large custom water wheel. Fabricated to resemble a decaying relic of the past, this wheel leans to one side and periodically dumps water onto daring visitors who saunter under its paddles. The stream continues eastward under a mossy bridge, allowing visitors to choose whether they play above or beneath. The stream terminates in a circular boulder-lined pool. A concrete walk circulates around the entire water playground. The design also includes multiple pockets of landscaping and shade trees and preserves an existing fabric shade structure.



LINWOOD PARK

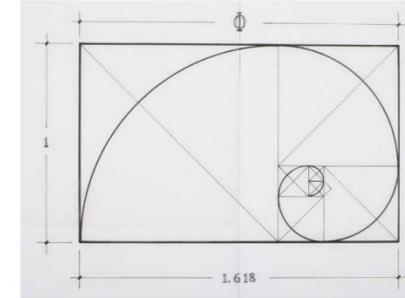
'MOSSY STONES' WATER PLAYGROUND



PLANEVIEW PARK



PLANEVIEW PARK 'NAUTILUS' WATER PLAYGROUND



Above: A Golden Spiral and the Golden Ratio which defines its dimensions;
Upper Right: An example of the Golden Spiral as found in nature - a nautilus shell;
Lower right: An image taken from the nearby Flint Hills landscape.

Theme

The theme for Planeview Park's newest amenity has evolved through the schematic and design development phases of this project. The design team initially explored a splash pad inspired by the topography and vegetation of the nearby Flint Hills. However, the location of this neighborhood and its historical ties to adjacent aviation industry also prompted examination of the B-29 bomber and other airplane motifs. As our team took a step back and considered the youth and future of the Planeview neighborhood, we began to think more broadly about innovation and how to immerse park visitors in a play environment inspired by both the place and technology. The "nautilus" concept developed around three (3) key priorities:

1. Innovation, including both STEM and STEAM components
2. Year-round play opportunities, utilizing both wet and dry play elements
3. Maximizing the use of existing parking and park structures, including a restroom and picnic shelter

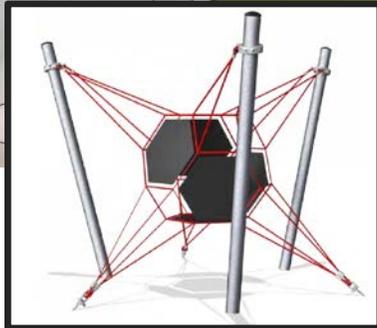
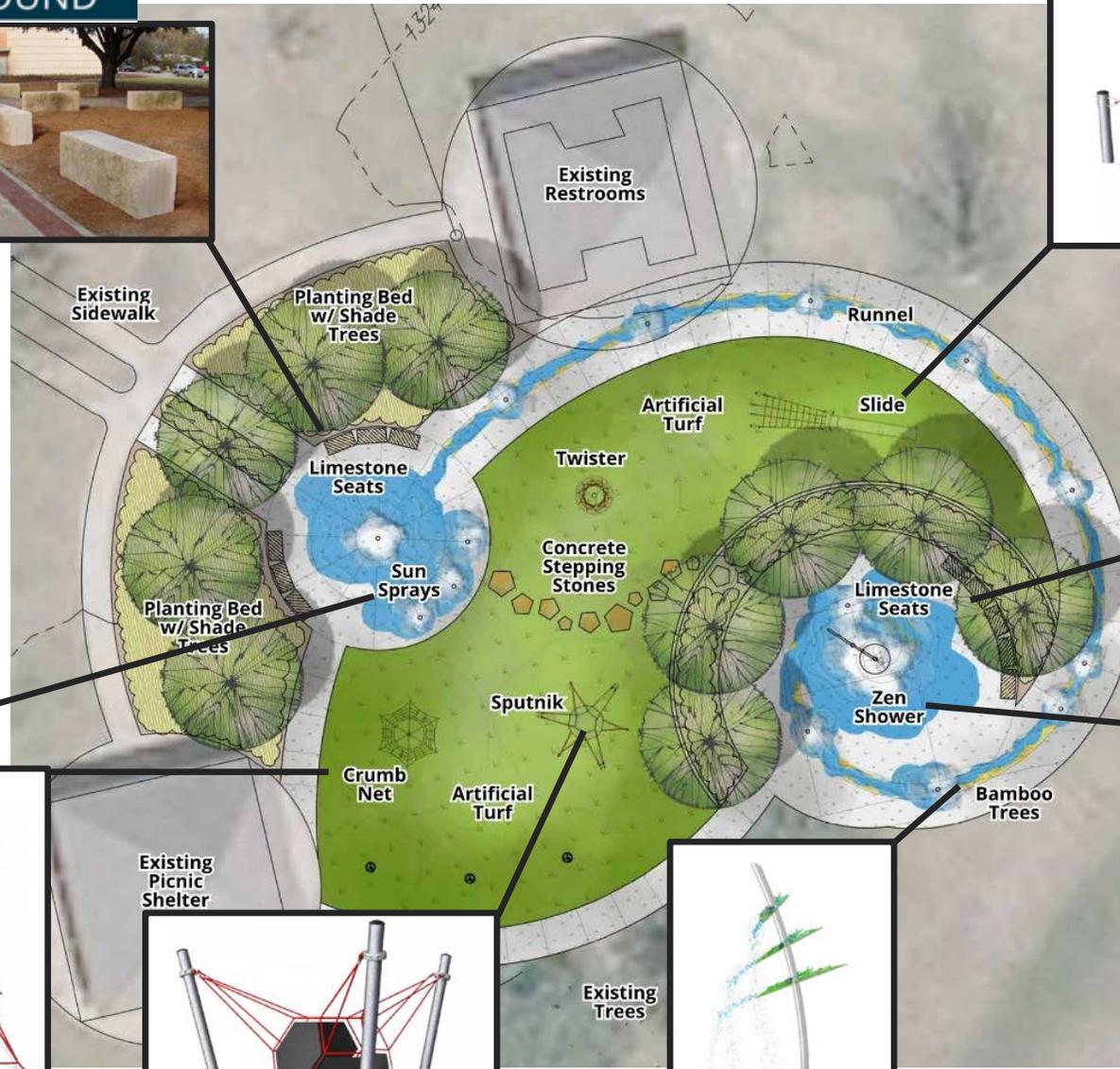
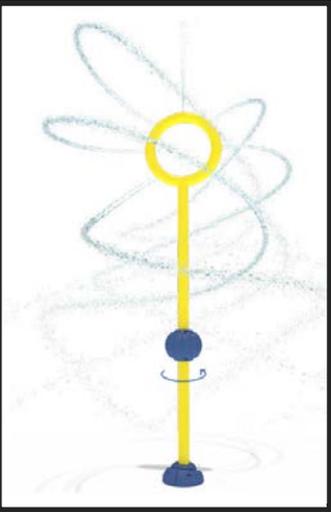
Site Impact

The water playground is located in the north half of Planeview Park on the east side of Jewett Drive near a bank of existing parking stalls. The existing site features a restroom building and picnic shelter connected by a semicircular pathway. The existing sidewalks provide a strong framework for bringing visitors to a future playground. Several mature deciduous and evergreen trees also help to frame the space and provide valuable shade. Further to the east lies an 1,100-foot long strip of pavement which has previously functioned as a soap box derby ramp. Our art consultant teammates have discussed with local private organizations the possibility of revitalizing this amenity in conjunction with a future STEM-inspired water playground.

Play Spaces and Elements

The proposed pathways and constituent spaces within the playground are organized around a classic *golden spiral*, also known as a logarithmic spiral whose growth factor is the *golden ratio*. The plan includes four (4) distinct play spaces: two wet play areas and two dry play areas for both younger (ages 2-5) and older children (ages 5-12). The water play area nearest to the entry includes an in-ground Sidewinder jet by Vortex and vertical Sunspray water elements by Vortex to draw visitors down the existing sidewalk into the playground. A series of in-ground water jets installed along a continuous 120-foot long, 2-foot wide runnel tease visitors all the way to the larger wet play area. The runnel is a shallow channel paved in decorative concrete and provides visitors the opportunity to experiment with fluid dynamics or simply play and splash. The climactic water element is the Zen Shower by Water Odyssey. Situated at the center of the spiral, it drops a circular curtain of water on visitors who choose to stand under its canopy. All of the proposed wet and dry play elements allow for either manipulation, experimentation, or multi-variant play experiences. They have been chosen based on the opportunities they offer for children to explore inertia, gravity, and momentum. The dry play spaces are covered in artificial turf and divided by an engaging path of concrete stepping stones meant to represent molecular geometry. Proposed seating in both wet play areas consists of cut blocks of native limestone intended to evoke the nearby Flint Hills prairie. The entry to the playground is also graced with two large beds planted in native prairie vegetation and ground covers. All seating is intentionally situated beneath new trees and/or shade structures to provide visitors with cover from the summer sun.

PLANEVIEW PARK 'NAUTILUS' WATER PLAYGROUND



HARVEST POOL



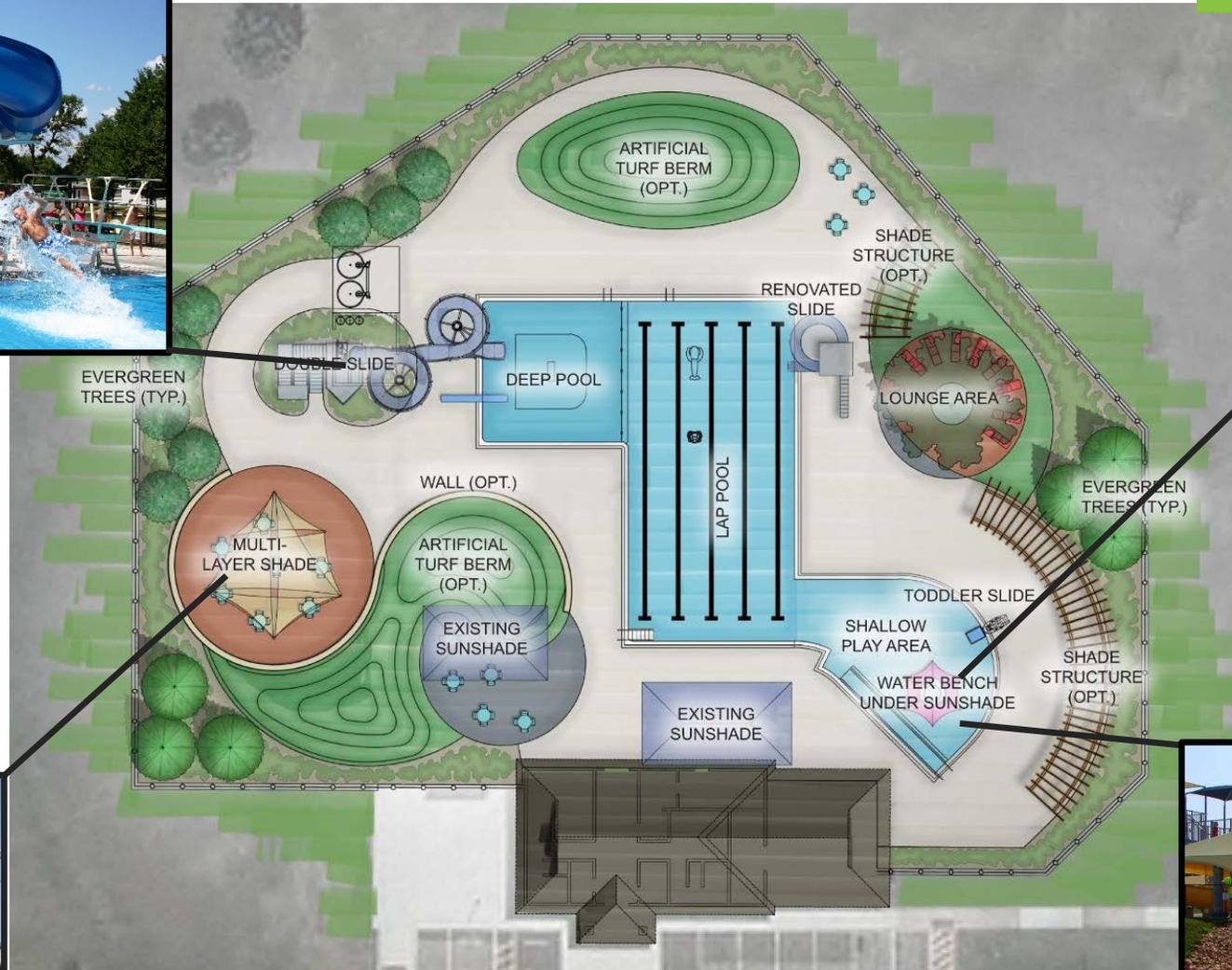


HARVEST PARK POOL

City of Wichita, Kansas

HARVEST PARK POOL

City of Wichita, Kansas



MINISA POOL





MINISA PARK POOL

City of Wichita, Kansas

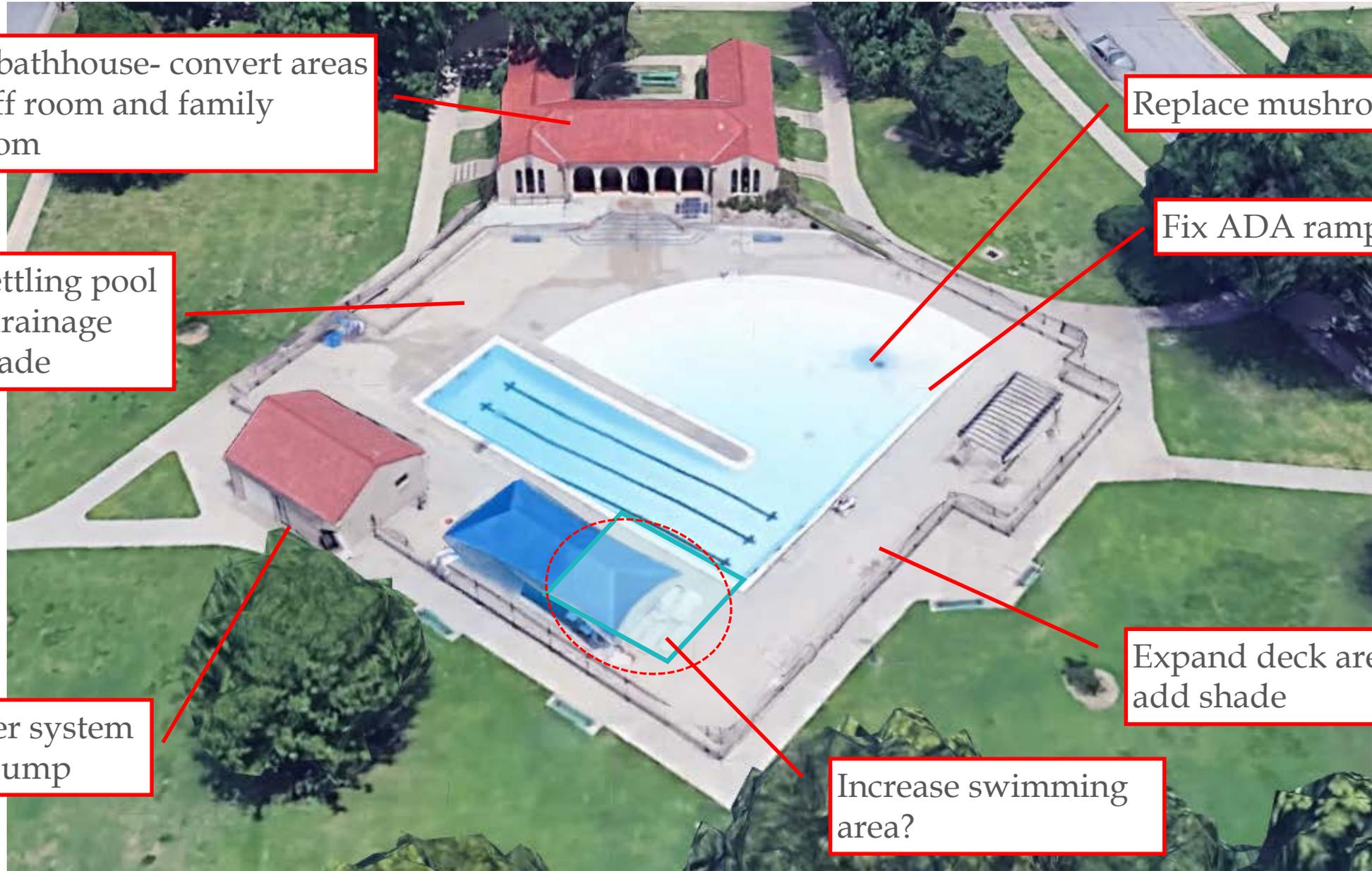
03/06/2019

POOL CONCEPT

MINISA PARK POOL

City of Wichita, Kansas





Renovate bathhouse- convert areas to add staff room and family change room

Replace mushroom spray

Replace settling pool deck, fix drainage and subgrade

Fix ADA ramp

Expand deck area, add shade

Replace filter system and recirc pump

Increase swimming area?

COLLEGE HILL POOL PLAN (Potential Improvements)

BASE BUDGET

		Current Opinion of Cost	Option A	Option A and B
Total CIP Cost:		\$ 17,953,000	\$ 19,166,788	\$ 21,359,508
			1,213,788	2,192,720
<u>Construction Costs</u>				
Aley	Pool	\$ 1,260,000	\$ 136,688	\$ 233,864
Boston	Splash Pad	\$ 915,000	\$ 111,173	\$ 114,863
College Hill	Pool	\$ 1,538,000	\$ 91,733	\$ 155,095
Edgemoor	Splash Pad	\$ 1,130,000	\$ 142,155	\$ 215,480
Evergreen	Splash Pad	\$ 985,000	\$ 85,050	\$ 145,969
Harrison	Splash Pad	\$ 725,000	\$ 41,918	\$ 155,095
Harvest	Pool	\$ 1,860,000	\$ 85,050	\$ 215,237
Linwood	Splash Pad	\$ 915,000	\$ 111,173	\$ 205,943
McAdams	Pool	\$ 1,860,000	\$ 136,688	\$ 136,445
Minisa	Pool	\$ 1,845,000	\$ 112,995	\$ 215,237
Orchard	Pool	\$ 1,435,000	\$ 85,050	\$ 155,581
Planeview	Splash Pad	\$ 840,000	\$ 74,115	\$ 243,911
Contengency		\$ 855,000		
<u>Project Costs</u>				
Base Design		\$ 1,200,000	\$	\$
College Hill Design		\$ 100,000	\$	\$
Construction Admin.- Phase I		\$ 245,000	\$	\$
Construction Admin.- Phase II		\$ 245,000	\$	\$

OPTION A

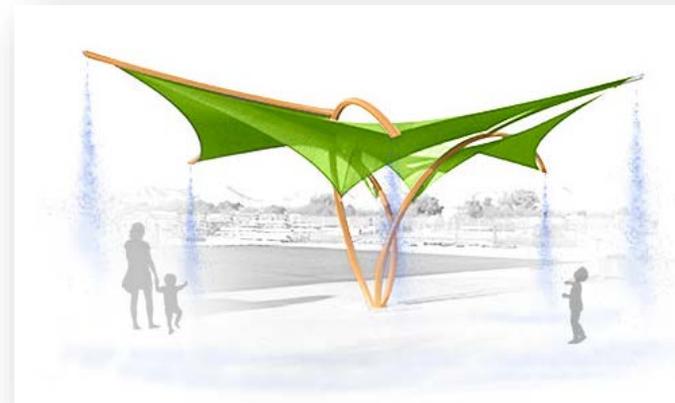
- Added/upgraded shade (all pools)
- Artificial turf surfaces on berms (all pools)
- Landscape areas/ plantings (all pools)
- New roof/clear story for Aley Pool
- Water feature - McAdams Pool
- Linear dividing walls at pool deck (some pools)
- Added splash/wet deck area (Orchard and Minisa Pools)
- Aesthetic Entry Gates – Locally Made (all pools)
- Building Facade Aesthetic Upgrades (most sites)
- Aesthetic Lighting – Locally Made (all sites)



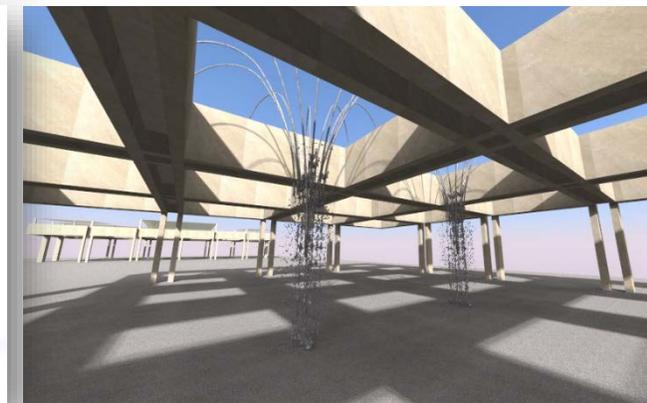
Synthetic Turf Berms



Landscape



Upgraded Shade



Water Feature (McAdams)

OPTION A

- Added/upgraded shade (all pools)
- Artificial turf surfaces on berms (all pools)
- Landscape areas/ plantings (all pools)
- New roof/clear story for Aley Pool
- Water feature - McAdams Pool
- Linear dividing walls at pool deck (some pools)
- Added splash/wet deck area (Orchard and Minisa Pools)
- Aesthetic Entry Gates – Locally Made (all pools)
- Building Facade Aesthetic Upgrades (most sites)
- Aesthetic Lighting – Locally Made (all sites)



Façade Upgrades



Entry Gates



Aesthetic Lighting

OPTION B

- *Themed Shade Structures*
- *Integrated Sculpture*
- *Hidden Surprises*



Shade Structures



Integrated Sculpture



Hidden Surprises

OPTION B

- *Dry Play*
- *Community Partnering*
- *Education and Awareness*



Dry Play



Community Partnering



Education and Awareness

Aquatics Master Plan

- Plan reviewed and supported by both Park Board and Design Council

Staff recommends that the City Council adopt Option 3 for the Aquatics Master Plan and authorize the preparation of plans and specifications.



Aquatics Plan Update

Department of Park & Recreation

