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LANDSCAPE ARCHITECT

A N D S P E C I F I E R N E W S

THE INDUSTRY TRADE MAGAZINE FOR COMMERCIAL LANDSCAPE SPECIFIERS NATIONWIDE!

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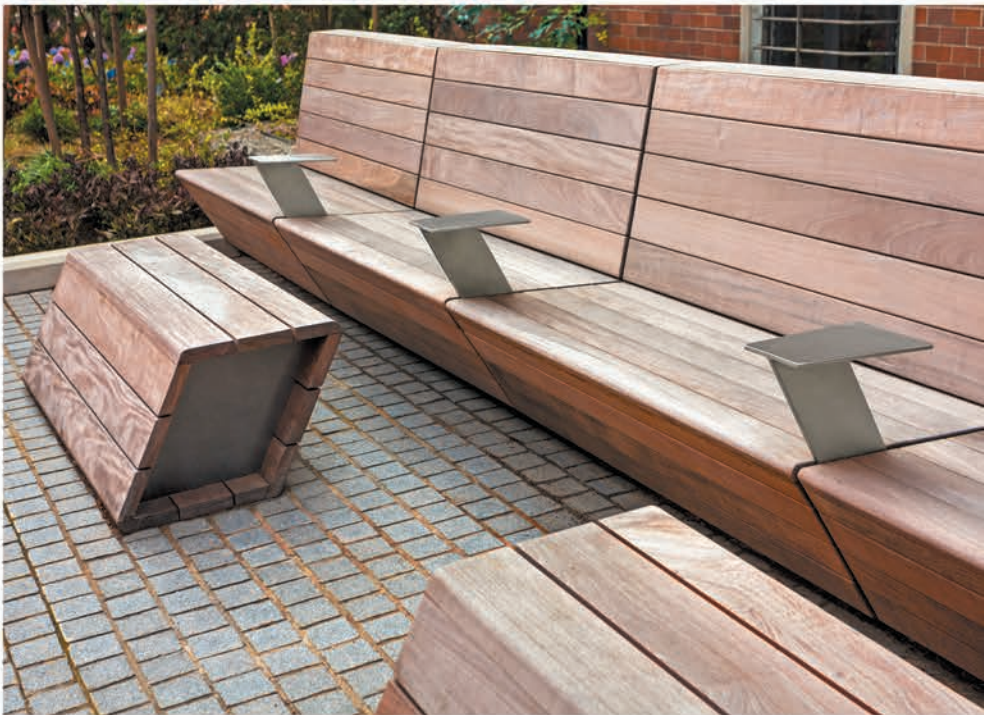
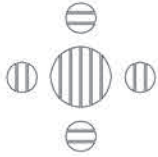
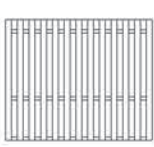
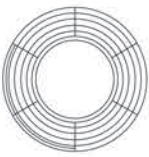
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Harmony Bridge in Bixby, Oklahoma stretches 2,000 linear feet and was designed with a park-like setting.

– *Landscape Architecture by Planning Design Group*

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Found in Goodyear, Arizona, the Goodyear Recreation Center is a 48,000 square foot facility in the middle of a 30 acre park.

– *Landscape Architecture by Kimley-Horn*

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The Yard is a 55,000 square foot park found at Canyon Park Technology Center in Orem, Utah.

– *by Kyle Funk and Brandon Reed, Loft Six Four*

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Located in Babb, Montana, the St. Mary Scenic Overlook represents and pays homage to the Blackfeet Nation through two Teepee sculptures.

– *Kent Watson, PLA, FASLA, Kent Watson and Associates*

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Take in this Danville, Virginia 50' by 100', pocket park that ties historical elements together with accessibility like a wheelchair lift.

– *by Tenda Carter Leavitt, Beechgrove Design Landscape Architecture*

70 Park Design Prioritizes Play, Sustainability, and Accessibility

The 1.5 acre Juan Tabo Hills Park in Albuquerque, New Mexico, features a multi-tiered playground with several play pockets and sustainable plantings integrated within the pockets.

– *by Greg Miller, MRWM*

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Professor Abbey with Louisiana State University discusses the importance of connect green parking lots with electric vehicle charging stations.

– *by Professor Buck Abbey, Louisiana State University*



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Find it First in LASN! There are 70 advertisements or product releases in this issue where the picture or ad has never before been published, what LASN calls "World Premieres." Look for the World Premiere icon in the LADetails Spotlight section (pages 18-24) and in **red text** in Ad Index (pages 113-114 and 117). Contact LASN for more information on how your new product can be in the World Premiere spotlight! (714) 979-LASN (5276)

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Cover Photo:
Loft Six Four designed this pocket park in the middle of the Canyon Park Tech Center in Orem, Utah. The park, titled The Yard, features numerous amenities to encourage recreation and collaboration.



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Veterans Honor Park | Chesterfield, MO | Powers Bowersox Associates - Architects
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An Opportunity in Your Pocket

Every month we review anywhere from 35 to more than 100 projects to pick the features for the next issue in line. We were turning away so many that we couldn't help but feel bad that you didn't get a chance to see all the great projects that didn't make it into the 5-10 features any issue could present.



It doesn't take deep pockets to make a small pocket into a pocket park. It's getting the politicians to recognize the importance of the pocket park investment that presents a great opportunity for Landscape Architects.

Now that LandscapeArchitect.com is two years old, we hit an 'Ah Ha' moment and realized that we could feature those projects at the site. So now, virtually every project that meets the submittal requirements will become an online feature and are being archived @ LandscapeArchitect.com . . . Into perpetuity . . . You should check it out. There are some pretty cool projects. Search keywords like Hardscapes, Residential, Streetscapes, Lighting or a wide variety and growing number of subjects and you'll find awesome inspiration from projects across the nation and around the globe.

For this 2022 LASN "Parks" issue, we reviewed scores and scores of park projects. These projects have been and will be appearing at LandscapeArchitect.com as well. It is always interesting to see the trends, and with those, several themes seemed to stand out. There were a wide variety of community parks that focused on the physical inclusion of all peoples. It also seemed that almost every project held a element of history. History of the land, of the people who occupied the lands, and the history of the accomplishments that led to the development of the region in which the lands laid. Exercise and the advancement of landscape interaction in a physical manner, like play structures, skateparks, trails and jogger/runners were also prevalent in a majority of the open space parks. But what really caught our eyes were the number of "Pocket Parks" submitted. We featured two in this issue.

The Equality Equation for Dense Areas

It seems that where the opportunity to develop space, especially historical space, presents itself in the downtowns of proud communities, the planners and powers that be are looking at the development of publicly funded social settings as a primary option. As much as I like the suburbs, I like the landscape architecting of the downtown and congregated community. Any time you can add an open space in a setting that is bipedally transversed, where the casual attendee can find respite and the "Regular" can find comfort and a feeling of neighborhood, I think you are doing the region a favor . . . Maybe this is also the opportunity where the landscape architectural profession can be a player in solving one of the great issues facing the country . . .

There are many communities that are in need of organized public space. Anywhere there are open or condemned lots in disadvantaged multi-family neighborhoods, a designed park, even with just the same footprint as the building that existed there before, would reduce density, provide public ownership, and provide that element of Olmsted's need of randomness that allows the human mind to rest. This should be a selling point for a ton of projects in almost every city of size.

So, while big parks, in large open spaces, should be found every couple of square miles in every developed area of the world, scattered about those square miles, especially in densely populated districts, open space should be a part of the public plan. Pocket Parks present a true opportunity. The challenge is to make each one relevant. The opportunity for the community . . . and for the Profession . . . is immeasurable.

Go Get'em and God Bless . . .

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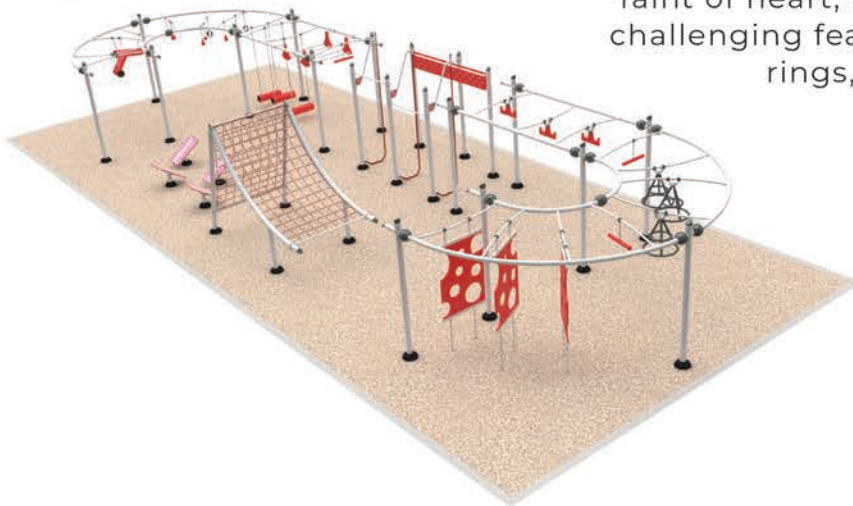
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Historic Home Hardscape

by Steve Shea, Steve Shea Landscape Design



Left, Above & Below: Steve Shea was selected to work on the .74-acre historic Spanish Colonial home's hardscape in San Marino, California. The hardscaping design was inspired by original tile and pavers with imported French limestone laid in an ashlar pattern surrounding the 20' x 40' pool and was completed in Spring 2019.

Right, Above & Below: After reconfiguring the pool size and shape, this 8' x 9' spa flows into the newly redesigned pool. Custom handmade green and white tiles were used to line the waterline, spa, and pool steps.

This project was about reimagining and reviving a historic Spanish Colonial home designed by George Washington Smith, built-in 1923. The house is located in the city of San Marino, California, a wealthy community that prides itself on historic preservation. Steve Shea, Landscape Design had worked with the clients on their previous home, a landmarked property in Glendale, California, so they trusted him. This project was also designed to cohesively flow with the house's original architecture.

The design team found samples of some of the original hardscape materials, such as tile and pavers for the main courtyard walkways on-site and had these reproduced to create additional pathways to match the original, existing ones. Mission Tile West in South Pasadena matched the color, size, and shapes of the tile and pavers perfectly. Where possible, the design plan stuck with the period and imbue just enough of the client's personality to make it special.

The existing pool was reshaped, shortened by 4

feet, to create a spacious patio area. The spa was built in the corner and flows into the pool. New entry stairs extend the entire length of the pool at the shallow end of the pool. The design team used custom hand-made green and white tiles that were hand-cut on-site for the waterline tile, spa, the deep end step, and to frame the planting beds around the palm trees. The same tiles were used under the hearth and as the riser for the step up to the covered loggia. 25-foot-tall date palms were craned in for a dramatic effect, they are famed by planters that utilize the pool tile. New hedges along the north perimeter provide a green backdrop and privacy, along with the walls that are covered in ivy.

The pool deck is imported French limestone provided by Exquisite Surfaces in West Hollywood, California. The limestone is organized in an ashlar pattern. The coping is also French limestone to match the pool deck.

The pathway leading to the pool bathroom is a

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Above: Since the pool was shortened, the outdoor kitchen area could include an expanded space located at the other end of the yard and now closer to the interior kitchen. The paving was resurfaced with terracotta tiles in a herringbone pattern. The fireplace also includes the same custom handmade green and white tiles that were used on the updated pool.

Above, Middle: To match the classic style of the home and overall design, the drains and the skimmer covers are custom crafted and feature brass fittings.

Right, Top & Bottom: Custom tiles were used to replicate the originals based off samples of some of the preexisting materials. This side pathway leads to the pool bathroom and the design is also used in the motor court.

replica of the pathways that surround the main fountain courtyard. It extends the length of the house, from the pool bathroom, through the motor court to the side entrance, and ends at the stairs that lead to the maid's quarters.

Where a small and outdated grill area existed, an outdoor fireplace was added. Placing it on this end of the loggia helped block the view to the nearby neighbor's house. The new, updated outdoor kitchen was installed at the other end which was located closer to the interior kitchen. The floor was resurfaced with warm terracotta tiles in a herringbone pattern.

There are three main courtyards surrounding the home where there was an inconsistency in the wall heights, so the design team extended some of the walls for continuity. Mission Tile West reproduced terracotta tiles were selected.

The interior contractor, Pacific Pride Builders, who had worked with the design team on the client's previous home, joined us for this renovation. The interior had been heavily remodeled, and the client had used the same French limestone in the kitchen that was utilized on the pool. Again, for continuity, the design team used this limestone on the side entry from the motor court.

The driveway gates were reproduced based on sketches of the original gates from 1923

and were hand-carved out of solid oak gates 8 feet tall. The new driveway, extending from the street down an 80-foot stretch to the open motor court was redone with brick bands and poured concrete with an exposed aggregate finish. The design team combined several mixes of pebbles in differing sizes and colors to create a unique blend. Decomposed granite pathways surround a kitchen garden in the far corner of the motor court just outside the window to the kitchen dining area. All new hedges and decorative plantings extend along the driveway. Espalier citrus trees adorn the walls of the motor court along with the house and behind the kitchen garden.

Additionally, the Landscape Architect craned in four 130-year-old olives trees, one for the motor court and three for the side yard. We employed a plant palette that would have been used in 1923 and added a fruit orchard including orange, grapefruit, lemon, Meyer lemon, Australian finger lime, Mulberry, kumquat, and five different blueberry varieties that border the large grassy side yard. Decomposed granite patio surrounded by three of these old olive trees at the north end of this area was installed.

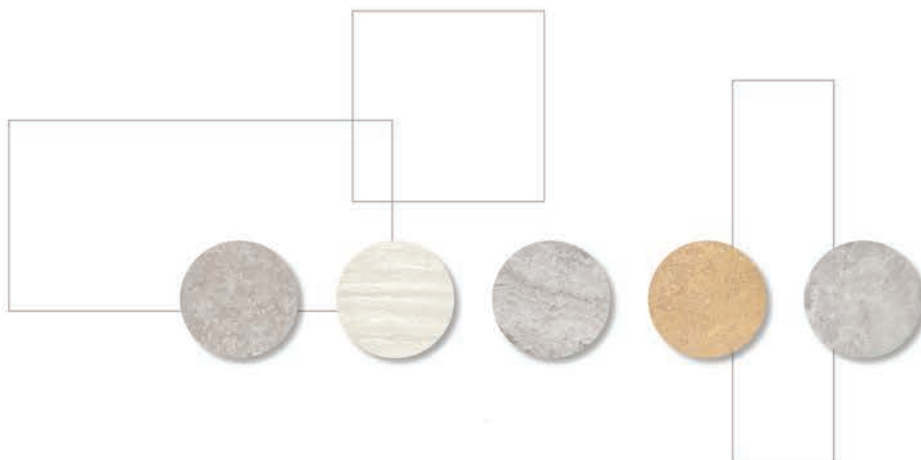
The project took nearly two years to complete since the City of San Marino required an extensive review process and numerous inspections. 🌿



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Trends in Outdoor Exercise Equipment



Above: An increased focus on accessibility has been one of the major advancements with outdoor gyms in recent years.

PHOTOS: GREENFIELDS
OUTDOOR FITNESS

Outdoor exercise has been one of the biggest growing trends in fitness over the past few years, especially since the start of the pandemic. According to a survey conducted by RunRepeat, who asked 4,500 adults about their exercise habits since the beginning of 2020, found that 59.1% of adults prefer outdoor exercise over indoor gyms (a 14.6% increase from the beginning of 2020). The study also found that 39.4% gym members switched to outdoor fitness alternatives in 2021. Because of these results, LASN interviewed Greenfields Outdoor Fitness of Anaheim, CA, who has been one of the leaders in outdoor exercise equipment since 2007, about the trends and developments of outdoor fitness. Here is the response the company's marketing director Allison Abel:

1. What should Landscape Architects know about outdoor exercise equipment when they are designing their next park?

When designing their next park, Landscape Architects should know that every park is different, and the needs of each community are different. Even more so, there are various types of people in a community, and there are different ways they will need to work out. For example, seniors will need low impact exercises, and teenagers like exciting challenges like an obstacle course. There is quite a lot of variety out there for outdoor fitness equipment. There are functional fitness units that allow for advanced users to participate in cross fitness style workouts, and accessible units that provide fitness opportunities for users in wheelchairs. There is also equipment with adjustable resistance that provides workouts similar to indoor fitness machines. Choosing the best equipment depends on the needs of each community.

2. How is the workout at home trend impacting the public versus the private workout equipment market?

With more people engaging in at-home workouts, public workout areas have enjoyed an uptick in popularity. People who would hesitate to visit private gyms and would usually opt for solitary workouts in their homes are able instead to visit public outdoor gyms. In doing so, they can enjoy the type of equipment they'd use in a private gym, but without having to be indoors – or pay a membership fee. Public gyms serve multiple purposes – they provide greater fitness opportunities to those who've decided to stay away from indoor group environments; allow for socialization among people in communities while still maintaining safety; serve as an introduction to training for people who may never set foot in a private gym; and facilitate workouts for those who otherwise would face economic challenges in doing so.

3. What trends are you seeing in outdoor exercise equipment? How has outdoor exercise equipment changed/advanced over the last 5 or 10 years?

Outdoor fitness equipment has evolved in response to what people are looking for. Greenfields has expanded its Functional Fitness line to include wall ball, battle ropes, and pull-up bars with different grips.

Outdoor fitness equipment has advanced recently to be more inclusive and versatile. With respect to inclusivity, people in wheelchairs now have more equipment available to them. These machines both strengthen the upper body muscles used to propel manual wheelchairs and exercise the reverse muscles to help prevent injuries. As far as versatility, adjustable

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Above, Left: Outdoor fitness areas have been found to be the most popular in large public parks, but they are also popular in smaller pocket parks.

Above, Right: The Greenfields interview revealed that outdoor gyms offer a unique social experience as they offer open access to community members.

resistance has become increasingly popular as it closely emulates the indoor gym experience and allows a wider demographic to use the machines.

4. What is the process of designing new products or updating old ones? Are there polls, surveys or other processes used to update products for consumers?

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5. What features have you found to be the most popular?

It depends on the park and the needs of the community. Having a nice selection of exercises will entice people to go to the park. A cluster of units in an accessible area will typically be more popular than units along a trail. With a larger selection of equipment in a given area, coupled with accessibility and visibility, it's easy for an outdoor gym to become a social environment to exercise with friends and family members, thereby increasing the motivation to work out.

6. Has COVID affected the use or design of the equipment?

COVID-19 has definitely affected the use of outdoor fitness equipment and encouraged people to get outside to exercise even more; there is an inherent advantage of a gym being located outside. The Recreation Management 2020 State of the Industry report cited an increase in respondents reporting that outdoor fitness areas and fitness trails were planned additions for their parks.

7. What advantages do you see for individuals exercising outside?

We've seen many advantages for individuals exercising outside. There is no cost to use outdoor fitness equipment. There are emotional and mental health benefits to green exercise. According to Extreme Physiology & Medicine, outdoor exercise can improve self-esteem and relieve anger, tension, and depression. The biggest impact on self-esteem and mood can be felt in the first five minutes. Along with the psychological benefits, exercising outdoors has great social benefits as well. It's easy to bring family members and friends to the park to work out, thus increasing motivation. If exercise equipment is located next to a playground, parents can exercise while keeping an eye on their children. This will allow for everyone in the family to be active together. Exercising outside is also a great source of Vitamin D. Another advantage of exercising outside at an outdoor gym is they are open 24/7. Outdoor gyms are also more sustainable, as there is no overhead required – there's no need to pay for air conditioning or staffing like at an indoor gym!

8. What setting is outdoor exercise equipment the most popular?

Outdoor fitness equipment is most popular in public parks. While large parks can have more space for more units, outdoor gyms are popular even in pocket parks. Even with limited space, outdoor gyms can serve a lot of people.

Outdoor fitness equipment is popular next to playgrounds and schools for physical education and joint-use areas. It is also very popular for the military.

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Information Request # 9010
villarootbarrier.com



Wallace Perimeter Security

RAMPART 280 Welded Wire panels combine beauty with our strongest double wire panel. The welding of the wire interfaces are intended for intense security use and are made to resist the onslaught of motivated trespassers.

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wallaceperimetersecurity.com



Handi-Hut

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handi-hut.com



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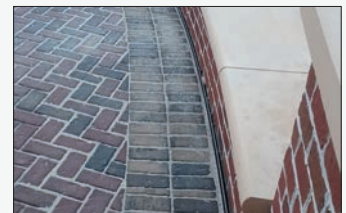
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plantasia.com



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pemfountain.ca



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duratrench.com





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merchantsmetals.com



Valmont Structures

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Information Request # 9017
valmontstructures.com



Sitecraft

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Information Request # 9018
site-craft.com



Spring Meadow Nursery Inc

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springmeadownursery.com



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gametime.com



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unmeileds.com



Delta Bluegrass Company

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Information Request # 9022
deltabluegrass.com



Petersen Manufacturing Co., Inc.

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Information Request # 9023
petersenmfg.com



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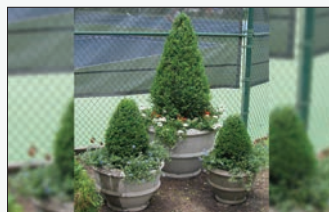
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pilotrock.com



Pet Pick-Ups

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petpickups.com



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thebrookfieldco.com



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newgenboxwood.com



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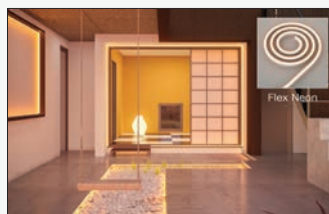
Information Request # 9020
treestaple.com



PorterCorp

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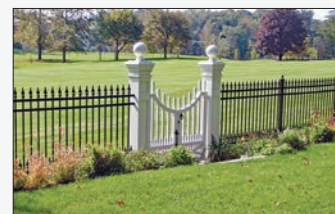
Information Request # 9029
polygon.com



PureEdge Lighting

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aquatix.playlsi.com



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gfoutdoorfitness.com



Canterbury Designs

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canterbury-designs.com



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mmcite.com/us



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petwasteeliminator.com



Easi-Set Buildings

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easisetbuildings.com



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breckironworks.com



Landscape Structures, Inc.

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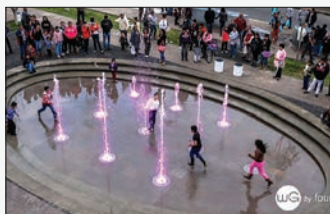
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fountainpeople.com



Madrax

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madrax.com



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treetopproducts.com



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waynetyler.com



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samsgazebos.com



Rubber Designs

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Information Request # 544



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Solid Surf Isle



Green Circular Bench



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zeager.com



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ARCHPOT

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archpot.com



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percussionplay.com



Wickcraft Company, Inc.

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wickcraft.com



Coverworx Recreational Architecture

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coverworx.com/



Jakob Rope Systems

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jakob-usa.com



High Ridge Farms

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highridgefarms.com



Classic Recreation Systems, Inc.

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Information Request # 9060
classicrecreation.com



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t2-sa.com



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sustainablepavingsystems.com



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Roundstone Native Seed, LLC

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roundstoneseed.com



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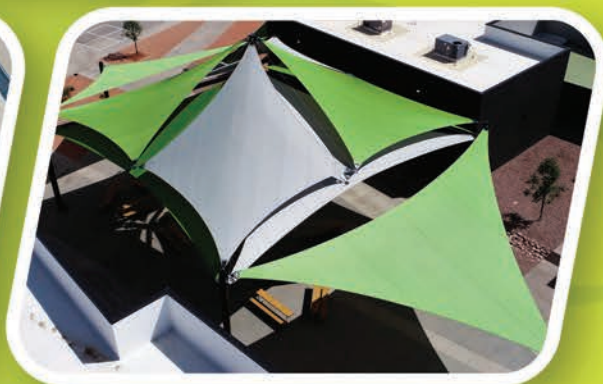
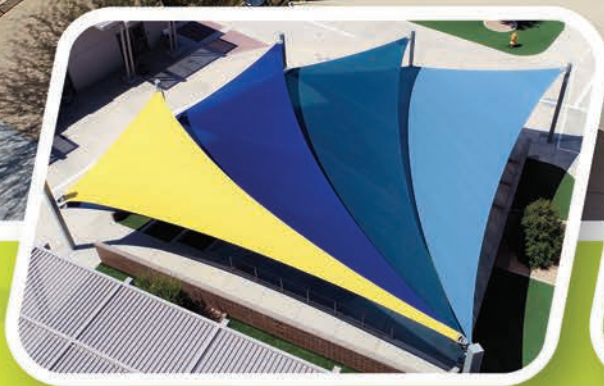


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Bridging Bixby



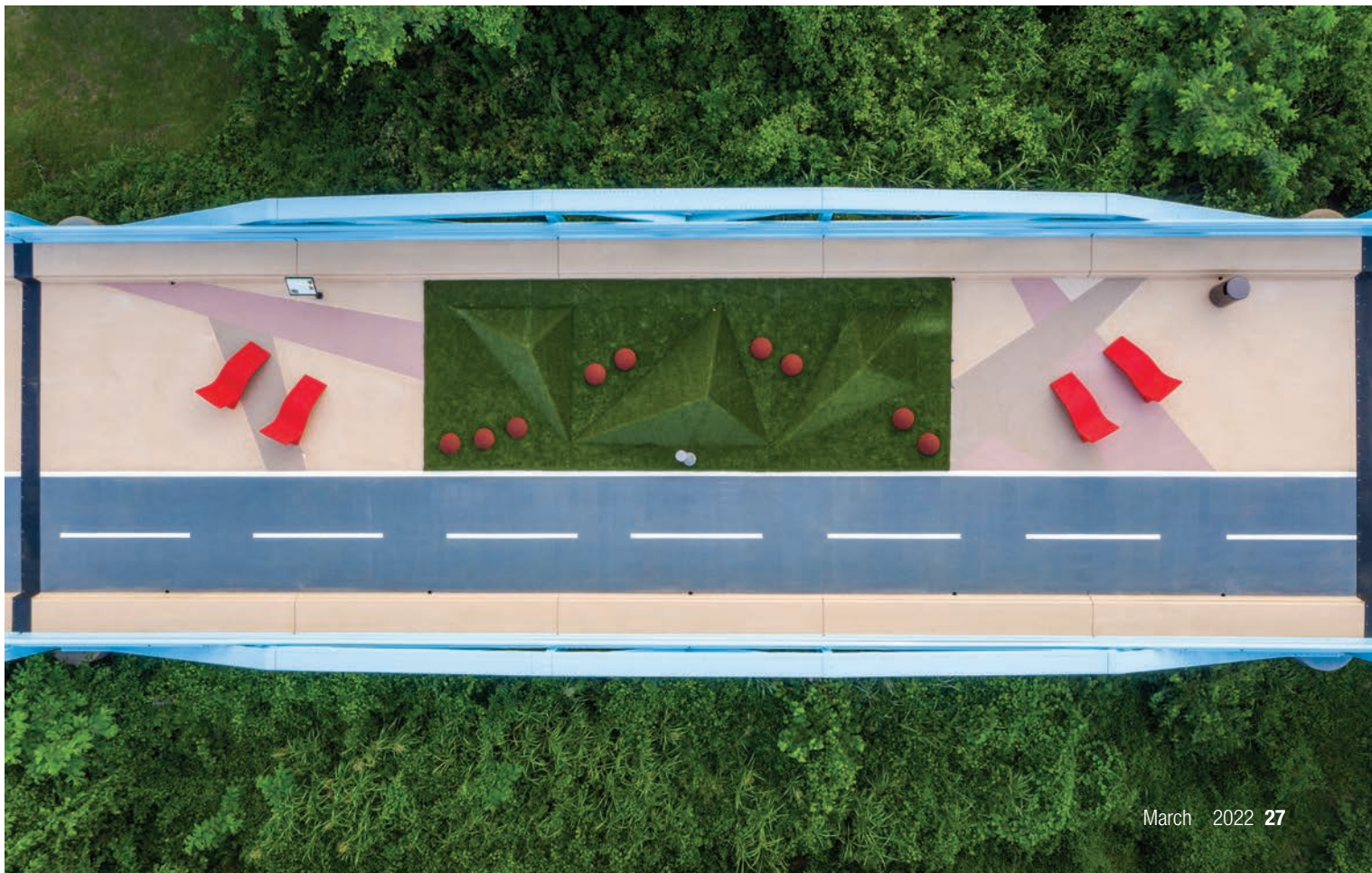
Harmony Bridge is a 2,000 linear foot bridge that crosses the Arkansas River in Bixby, Oklahoma. The bridge serves as the only pedestrian connection between the north and south sides of the town. Harmony Bridge was designed to tell a story, educate the public, and create a space that brings the community together in an innovative and diverse site, while keeping in mind the history of Bixby.

Above: When a new vehicular bridge (far right) was built across the Arkansas River in Bixby, Oklahoma, the Oklahoma Department of Transportation gifted the old bridge, built in the 1930s, to the city, which then made it the primary pedestrian connection, within the Bixby Trail System, to connect the north side and south side of town. Planning Design Group (PDG) was put in charge to transform the bridge into an economically-viable and appealing public space. PDG's responsibilities included research, planning, conceptual design, construction detailing, and construction administration and management.



Above: The old steel bridge had structural issues that had to be addressed. After repairs were made, the new deck was installed. It included a surface of Transpo methyl methacrylate from Transpo Industries, Inc., put in by Cillesen and Sons, Inc. located in Wichita, Kansas. The bridge joint material is Wabo Safety Flex SFP-600 from Watson Bowman Acme.

Below: The new bridge exudes a park-like setting with seating and play areas. Directing the pedestrian traffic is a striped trail across the entire bridge. The site furnishings from Landscape Forms, who also provided mingle seating tables and bike racks, include these Chill loungers and waste receptacles.





Above: An important amenity in the design was educational signage that provided information about the history of the bridge and the history and ecosystem of the Arkansas River. The signage used National Park Service (NPS) style, single pedestal signs with surface mounts.

History/Background

The first bridge in this area that crossed the Arkansas River, opened in 1911. It was labeled the longest bridge in Oklahoma. The bridge united the Bixby, Fry, Shellenbarger and Willow Springs communities, schools and markets. It was doubly important because it provided the most direct route between Oklahoma's second and third largest cities, Tulsa and Muskogee. In 1938 that bridge collapsed, causing traffic to be diverted to Jenks while a new bridge was being built about 1/2 mile west of the old bridge, which relocated Highway 64 from Riverview Drive to the new Memorial Drive.

The bridge remained in operation until the 1990s, when it was gifted to the city of Bixby from the Oklahoma Department of Transportation. At that time, a new vehicular bridge was built and the gifted bridge became the primary pedestrian connection, within the Bixby Trail System, across the Arkansas River.

Planning

Bixby is one of the fastest growing cities in the state of Oklahoma this past decade, and second fastest in the Tulsa metro region, having expanded by 57%. Creating public spaces for the community is at an all-time high. The north side of

Bixby consists of a big city feel with an abundance of retail, including big box stores, new neighborhoods and a more densely populated area.

The south side of Bixby has historically had the small town feel with a larger farming community. The city had aspirations to make a literal connection from north and south Bixby, and provide a space where all citizens of the community can connect in harmony.

Working with the city of Bixby, as the landscape architect, Planning Design Group (PDG) led the design team with



Above: The 2,000-linear-foot bridge can even house events with food trucks. The shade structures include a 25'x 100' custom cantilevered structure and 12' x 30' hip roofs. Underneath this shade structure are parallel benches made of lpe wood.

a goal to provide a public space that was economically viable, while improving the connection between the community across the 2000 linear foot bridge. As designers, we wanted to touch all who have crossed this bridge: those that relate the Bridge to a significant moment in their life, an engagement, senior photos, a kiss, 'locking in love' with a love lock, amazing sunsets, training for marathons, or even watching the river rise during historical flooding.

This was accomplished by not only improving the pedestrian connection across the Arkansas River, but by creating recreational opportunities, providing

educational experiences, and incorporating the history of the site by tying the past to present and future.

Design

As with most communities, maintaining this steel bridge came with a large amount of time and money. The Harmony Bridge Project would provide the time and necessary repairs that would bring the old steel bridge up to standards structurally, as well as aesthetically. With the structural repairs accounted for in this project, the design team was able to focus on providing an amenity to the city of Bixby, and the Tulsa metro area, that is both unique and functional.

Changing a bridge from its intended purpose to a park-like setting comes with many constraints and opportunities. For instance, how do you maintain a designated trail area across a bridge, while providing a space for food trucks to park? How do you take a concrete and asphalt bridge and provide an area for kids to play and learn?

Through many concepts and thinking outside the box, the design team was able to provide a modified bridge that includes that park-like setting that can house events with food trucks, allow people to hang out to watch the wildlife in the river or a sunset, play with their kids on a variety of play



Above: The custom lighting on the bridge can be programmed together or independently to create limitless light shows to celebrate holidays and public awareness opportunities. The fixtures include RGBW LED post lights, and custom pylon LED lights with direct view, RGB media tubes.

areas and musical instruments, all while maintaining the pedestrian circulation with a designated and striped trail/path across the entire bridge.

Educational signage was provided along various points of the bridge. The signs provide information about the history of the bridge, history and facts about the Arkansas River, the ecosystem of the river, interesting facts about the bald eagles that nest in this area, descriptions of the giant fish or “River Monsters” that swim the river, and information about the other wildlife found using the river and this area as their natural habitat.

The bridge lighting was designed with custom lighting that can be programmed together or independently to create limitless light shows. This includes custom pylon structures, poles lights, and lighting in shade structures. Since the opening of the bridge, the city has provided light programs for holidays, public awareness opportunities, support for the school system by showing their colors, and many more.

Design Team

PDG, as the lead consultant on this project, provided services that included research, planning, conceptual design, construction detailing, and construction

administration and management for a new and innovative project for the state of Oklahoma, while keeping in mind the history and use of the bridge.

On this project, we collaborated with the city of Bixby and our design partners, which included Cynergy AEC’s structural and electrical engineering departments. By working in harmony as a design team, we were able to create a space that will endure for generations to come, while incorporating state of the art elements that can be utilized for various events. We modified and improved the pedestrian circulation across the bridge that connects surrounding parks



Above: Half balls were designed to be incorporated with synthetic turf mounds, which were specified to have Insulfoam berms, Polygreen foam padding and synthetic turf, all provided by local supplier ACS Playgrounds.

Below: Musical equipment included a goblet drum, kundu drum, kettle drum, grandioso chimes, vivo chimes, and Cascata bells.





Also incorporated in the design were rubber cubes for child's play, viewing scopes, stainless steel removable bollards and an emergency phone. Key partners in the project included Cyntergy AEC's structural and electrical engineering departments and the city of Bixby's general contractor, Myers-Cherry Construction.

and the community, while maintaining and improving ADA accessibility.

We were able to collaborate with the city's general contractor, Myers-Cherry Construction, to establish construction methods that would preserve the existing structures, maintain and improve accessibility, and provide the ability to expand the uses in the future. Ultimately, the design team was able to provide a design

that met and exceeded Bixby's expectations, all while keeping in mind the health, safety, and welfare of the community.

The Takeaway

Due to an overwhelming amount of use of the facility within the few months of being open, additional parking is being added to the north end of the bridge to accommodate additional visitors. This will include additional ADA parking,

a lighted path to the bridge, and a connection to a new park along the banks of the Arkansas River. 

DESIGN TEAM

Owner: City of Bixby, Oklahoma

Lead consultant/ landscape architect:

Planning Design Group (PDG)

Jim Crosby, principal, Geoff Evans, principal

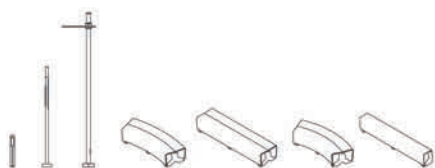
Structural and electrical engineering: Cyntergy AEC

General contractor: Myers-Cherry Construction



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An aerial rendering of a proposed recreation campus. The design features a large green soccer field at the top, a central area with colorful, abstract play structures, and several tennis courts at the bottom. The campus is surrounded by parking lots, roads, and landscaped areas with trees and shrubs. The text 'A Very Good Year' is overlaid on the soccer field, and 'Landscape Architecture by Kimley-Horn' is below it. A paragraph of text is also present on the right side of the image.

A Very Good Year

Landscape Architecture by Kimley-Horn

A study conducted by the City of Goodyear, Arizona, a suburb of Phoenix, found that residents strongly supported the creation of recreational opportunities and maintaining and improving parks. From this sprang the city's aspiration for a recreation campus. The landscape architecture and master planning for the 40-acre area was entrusted to Kimley-Horn, who put Marissa Pellegrini, PLA, ASLA, in charge as the lead Landscape Architect. The firm was also tasked with public involvement and the site's civil, utility, traffic, roadway, electrical and drainage engineering.



Right: Multi-tiered and inclusive, the playground has areas dedicated for ages 2-5 and 5-12. Slopes of artificial turf were enhanced with slides and climbers. The play equipment was from Landscape Structures.



Left: The playground also features shade structures, a zipline, a circle swing and a multi-level tower with a bridge for kids of all abilities and interests. Because of perimeter parking, pedestrian pathways were a critical part of the design; giving visitors safe connectivity to the various amenities including the group ramada. There, each sperate shaded area, with an accompanying barbecue, a counter with a sink and two picnic tables, allows families to have small gatherings.



Above: Two acres of the allotted space was dedicated to the aquatics facility that includes a 25-yard, 8-lane competition pool, a leisure pool, a lazy river, a separate 27-foot-high dual slide tower along with a perimeter of shaded cabana areas.

The City of Goodyear, Arizona, has experienced tremendous growth over the past decade. In 2014, the Phoenix suburb completed their systemwide Parks and Recreation Master Plan which identified support for recreation-based programming and facility needs through community outreach and surveys. The most recent citizen's survey documents showed strong support of the city in continuing to provide recreational opportunities (73%) and maintaining and improving parks (85%).

The city continues to raise the bar in providing superior service through diverse recreation-based programming, offering the community a high quality of life that is reflected in the city's growth. In 2018, the city completed the Recreation Campus Master Plan which included robust community and stakeholder engagement. The project included stakeholder interviews, focus group meetings with user groups, and three community workshops to further validate the support for recreation-based programming and facility needs.

The Goodyear Recreation Campus is like no other as it was inspired, envisioned, and designed by the community, for the community. Home to the city's first recreation center, it provides something for

everyone - all ages, abilities, and interests! The 40-acre campus includes a 30-acre community park, a 48,000-square-foot recreation center and aquatic facility. The two-story recreation center includes a teen room, multi-use gymnasium, multi-purpose rooms, fitness areas, and an indoor walking track.

The two-acre aquatic facility includes a 25-yard, eight lane competition pool for open swim, classes, and swim meets while the leisure pool provides a zero-depth water play "splashground" and a perimeter lazy river. The deck also includes a separate 27-foot-high dual slide tower along with a perimeter of shaded cabana areas. The 30-acre community park provides seven acres of open turf, two baseball fields, art plaza, sport courts, inclusive playground, group ramada, and one-mile perimeter multi-use pathway.

The Goodyear Recreation Campus opened to the public on July 3rd, 2021 with great community excitement and enthusiasm attracting over 46,000 visits in the first two weeks. In addition, more than 8,000 passes have been issued.

The vision for the project was to create an integrated campus shaped by

the community that includes a recreation center and aquatics facility within the park. The success of the project was dependent on these three elements all speaking to one another to fully integrate the community's experience within the recreation campus.

The project included an artist during the initial master plan as the city wanted to incorporate art from the project outset rather than being an afterthought. The design team welcomed this approach and worked together to develop a "kaleidoscope" theme that cascades through all parts of the campus inside and out. The goal was to create a user experience that provides a sense of discovery as the campus design utilizes shade, light, and color in a whimsical way to offer a new experience with each visit. The campus utilizes a compression and release approach to the park layout, resulting in flexible use of space for multiple levels of programming and different scales of community events.

For example, the multi-tiered art plaza can provide an intimate experience while the stage can be utilized for a larger event within the event lawn or multi-use field area. The group ramada provides a place for intimate family gatherings or larger scale celebrations while surrounded

Right: One of the most interesting areas is the art plaza with its 32-foot-high kinetic sculpture named Chasing the Stars, which was designed and fabricated by Joe O'Connell and his company Creative Machines. To add further interest to the multi-tiered plaza, the vibrant paving is made of concrete.



by a dynamic activity area featuring playgrounds, open turf, and sport courts. Pedestrian pathways were critical in the layout of this 40-acre project resulting in perimeter parking to allow users safe connectivity amongst all amenities.

At the heart of the campus is the art plaza—home to Chasing the Stars— one

of the world's largest human powered interactive kinetic sculptures standing 32 feet tall. The sculpture allows users to work together to activate the six arms through ropes and pulleys to provide a changing display of light through motion.

“The world is much bigger than us and the arms can be both orderly and chaotic—

like the universe itself—and they push back as much as you push on them,” stated Joe O'Connell, the founder of Creative Machines, which designed and fabricated the sculpture.

The multi-tiered art plaza, utilizing colored concrete to create a vibrant centerpiece for the park, was inspired by the



Above: The Chasing the Stars sculpture can be powered by wind or human interaction. When the wind motivates it, the sculpture's six arms revolve on a linked axis. When there is no wind, visitors can set off kinetic movement by pulling on its tethers. During the day, the sun shines through the translucent arms, casting colorful shadows on its base. At night, LED lights focused upwards reflect off of small mirrors underneath the arms, generating colorful light and shadows on the surroundings.

kaleidoscopic theme, and the continually moving Chasing the Stars creates color and shadow in the plaza that cannot be duplicated.

The multi-tiered destination playground includes inclusive play elements and dedicated play areas for ages 2-5 and 5-12. The shaded artificial turf slope delivers an

experience for the whole family including opportunities for hillside slides, a concrete family slide, and climbers for kids of all ages, abilities, and interests. The playground also features a multi-level tower with a bridge, a zipline play structure, and a circle swing.

The site orientation of the recreation center building and aquatics area has

optimized the sun angles with building facades and overhangs to provide daylight throughout the building without direct sunlight exposure. The building utilizes a polychromatic material which changes colors throughout the day depending on your approach and viewing angles. The multi-purpose room, gymnasium, and elevated walking track areas all experience

Right: Plantings featured drought-tolerant agaves, yuccas and desert willows.



Left: Also included in the design is a zero-depth water play splash ground featuring aquatics play equipment from Vortex Aquatic.

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Above: Seven acres of open turf, two baseball fields, sport courts, and a one-mile perimeter, multi-use pathway add to this park's appeal.

several grand vistas from the building out to the Estrella Mountains and White Tank Mountains.

The Goodyear Recreation Campus encompassed six capital improvement projects which included: a recreation center, aquatic facility, 30-acre park, and offsite and infrastructure improvements. Goodyear leveraged various funding mechanisms in order to bring the \$67M project to fruition. These mechanisms included impact fees, GO Bonds, and General Fund dollars. The project also included funding for public art through a dedicated allocation via the Capital Improvement Plan. Construction Manager at Risk was utilized to deliver the project, allowing for the use of multiple guaranteed maximum price contracts therefore enabling the contractor, Hunter Contracting Co., to begin construction early for infrastructure improvements.

In addition to capital funding, Goodyear City Council supported an operational cost recovery of 12-14% resulting in affordable pass rates for residents, thus reducing financial barriers for access to the facility. Furthermore, in celebration of Goodyear's 75th anniversary, residents were offered \$75 family passes.

The project team's robust outreach effort, inclusive approach, and intentional design will allow the Goodyear Recreation Campus to serve as the city's ultimate gathering place, positively impacting generations to come. 🌱

TEAM LIST

Lead Landscape Architect: Marissa Pellegrini, PLA, ASLA, Kimley-Horn

Landscape Architecture: Kimley-Horn (Prime Consultant)

Master Planning: Kimley-Horn

Public Involvement: Kimley-Horn

Civil, Utility, Traffic, Roadway, Electrical, Drainage Engineering: Kimley-Horn

Architecture: DWL Architects

Aquatics: Water Technology, Inc.

Irrigation: Aqua Engineering, Inc.

Building Mechanical, Electrical, Plumbing: Kimley-Horn

Building Structural: Caruso Turley Scott

IT: I2 Technology

AV: CCS

Geotechnical Engineering: Ricker, Atkinson, McBee, Morman & Associates, Inc.

Surveying/Aerial Mapping: RLF Consulting

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Corporate Park Creates Business Growth



by: Kyle Funk and Brandon Reed, Loft Six Four



Left: The Yard is a 55,000 square foot park found at Canyon Park Technology Center in Orem, Utah. Landscape architecture firm Loft Six Four designed the park, in the center of 14 tech company buildings, with numerous recreation and lounging amenities.

Above, Top & Bottom: A 3/4" Permapark pathway made of crushed basalt, connects the various areas of the park including the BBQ grilling area which features picnic tables and a custom shade structure, which was designed by Loft Six Four and built by Truco Services, a landscaping company from Murray, UT. Grey concrete fills the 640 square foot space.

The Mueller Company hired Loft Six Four, a landscape architecture and design firm based in Salt Lake City, Utah, to design the outdoor amenities of The Yard at Canyon Park Technology Center in Orem, Utah. The project is 55,000 square feet of outdoor amenity space. Loft Six Four collaborated with Canyon Park Technology Center and AE Urbia Architects and Engineers to accomplish their goal of creating a one-of-a-kind outdoor amenity for office tenants that captures the entrepreneurial spirit of growing tech companies and becomes a major selling point for them to locate their company headquarters at Canyon Park. The team achieved this by designing iconic spaces for a wide variety of activities and user groups. They also crafted flexible spaces and immersive outdoor living experiences.



Above: Four concrete tabletops with wood legs work well with the shade structure and concrete patio. Each chair (inset) is a movable lightweight concrete block. The grill is 36" wide with a black granite countertop and tiger wood-stained cladded decking.



Above: The team wanted a highly usable feature that was durable and low maintenance so a precast concrete ping pong table was placed toward the northeast end of The Yard.



Left: The multipurpose court is a popular feature that is used for weekly basketball, pickleball, and even axe-throwing. It features a typical surfacing mixture of acrylic, asphalt, and concrete. The branding and colors were chosen by RSM Design, a graphic design firm based in Boulder, CO.

The firm designed a hammock garden among the existing trees, a grass volleyball court, a sofa seating lounge, a shaded setting for cafe tables, a BBQ and picnic area, a multi-use sport court, outdoor games including ping pong and corn hole, a fire pit lounge, and hanging swings and hammock chairs under a custom shade structure.

Each space was designed with the idea that it could be used by an individual office worker on break, a group meeting for lunch, outdoor work, and company parties. There was an emphasis on social interaction within an outdoor environment focused on providing value to office tenants. Time spent at The Yard increases productivity, creativity, and fosters a positive company culture. It's the Silicon Slopes adaptation of the Silicon Valley model for workplace amenity design.

The Yard is a branded and exciting one-of-a-kind outdoor amenity space. As the first of its kind, the park sets the tone for outdoor office amenities in the rapidly

growing Silicon Slopes region. Located amid 14 high-tech office buildings, The Yard is where tenants meet up during all hours of the day to enjoy a wide variety of outdoor activities. It captures the entrepreneurial spirit of the high-growth tech firms that use the space, and has quickly become a favorite place of tenants, helping to drive sales for The Muller Company in their efforts to reposition a previously declining office park. The Yard is a clear example of the high value of outdoor space. Its success demonstrates the many benefits outdoor amenities offer within an office environment - from building a strong company culture to growing an investment firm's bottom line.

Design Context:

Originally built as the headquarters for one of Utah's earlier tech startups, Canyon Park Tech Center was developed in 1985 as the WordPerfect campus. However, after the company merged with Novell, the campus was sold to real estate investors and began to languish in disuse. Despite

its dilapidated look and lack of occupancy (with businesses occupying less than half of the space), the campus still carried much potential. The Muller Company identified the campus as a great opportunity to invest in. They stepped in to reinvent it as a haven for startups looking for a place to grow.

A key component of the repositioning strategy was making Canyon Park a fun and enjoyable place for the roughly 10,000 people that would be working there. Describing The Muller Company's vision for the property, Justin Farnsworth, general manager for the Canyon Park Tech Center, explained, "We're trying to create a live-work-play environment here with this campus and really, really trying to embrace and tap into that entrepreneurial spirit."

The design of The Yard needed to accommodate a wide variety of activities and user groups. With careful planning and organization of space, the Landscape Architect creatively maximized the amount

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Above & Inset: This custom fire pit located on the northeast corner of The Yard is 4' x 7.5' charcoal color powder coated aluminum with tumbled lava rock infill. It has a custom burner assembly and a lockable on/off gas timer switch.

of different amenities while preventing the area from feeling overcrowded. To create the right kind of entrepreneurial environment, the team designed flexible spaces that can pivot from one use to another. This versatile space has been adapted for a wide range of activities and events from weekly basketball games to food truck dining to axe-throwing. Like the startup companies that use the space, The Yard is an exciting feature that is bursting with potential.

Environmental Sensitivity and Sustainability:

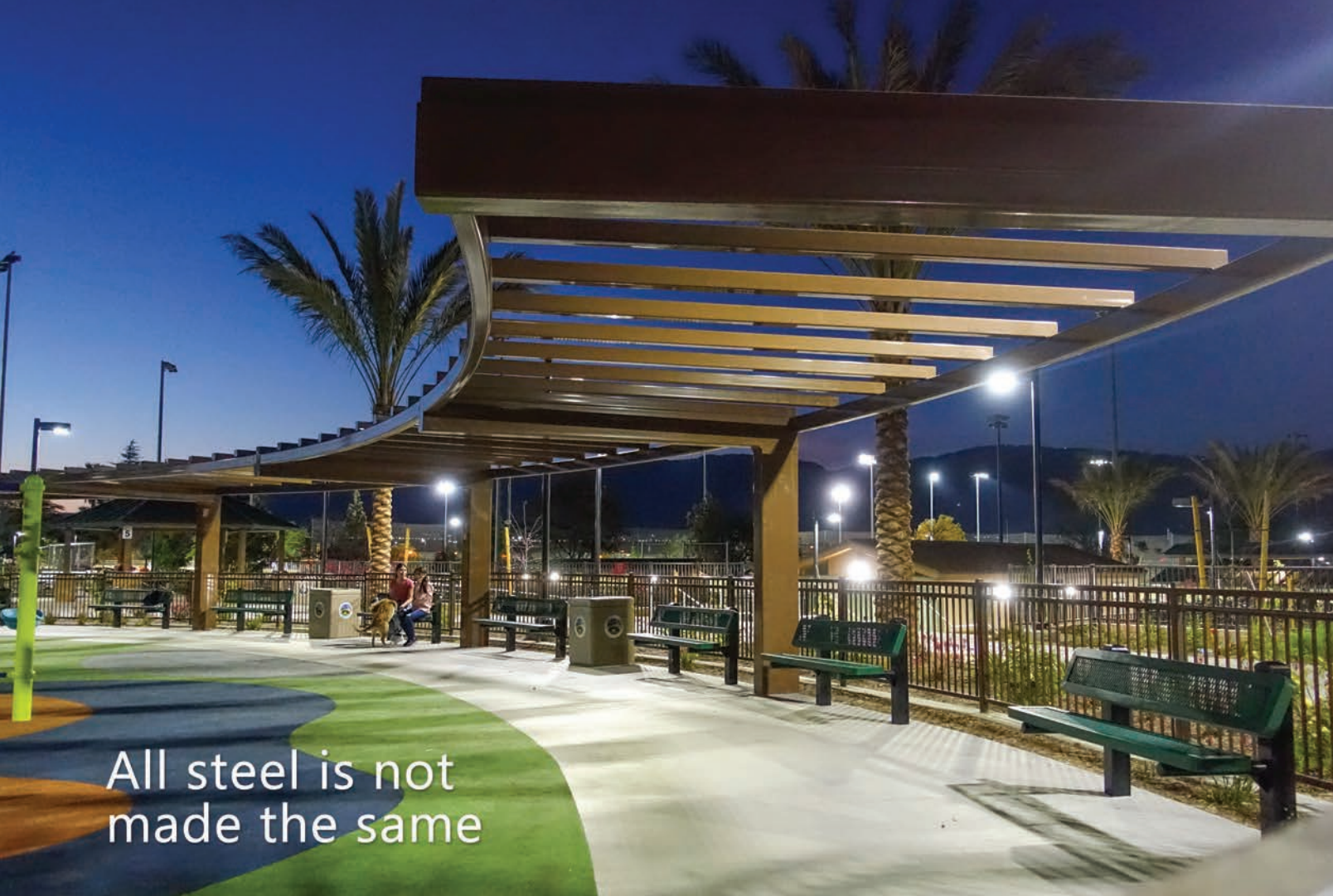
The success of The Yard proves to local developers the value of immersive outdoor space and is opening the door for more usable green infrastructure within suburban office parks throughout the state. The unique custom features challenge the

perceptions of what is possible and practical. An outdoor amenity is becoming a “must-have” in the minds of commercial office developers, setting the stage for a greener and healthier city. The renovated site utilizes water efficient irrigation design with smart technology and equipment to conserve water. Existing trees were preserved and incorporated into the design as locations for hammocks and shaded seating areas.

Design Value to the Client, Community, and Other Designers:

The Yard shows how much can really be done to improve a space and create large scale value. Before the updates, the spot was simply the location of two basketball courts and a couple of sand volleyball pits. But, with the thoughtful consideration of how people use such spaces, it has become so much more.

As a prime marketing tool, The Yard continues to provide value to The Muller Company and their growing number of office tenants, and is a huge draw for startups and high growth tech companies that need attractive amenities to help build their workforce. It has been a catalyst for changing perceptions of what is possible and viable for office amenities within the Silicon Slopes. The Yard is a source of inspiration for other designers and gives them greater confidence concerning what is possible for their developer clients and presents a higher design standard for office amenities in Utah. Similar projects are seeing higher initial budget allocations early in the development stage, allowing designers to create more engaging and valuable spaces. 🌿



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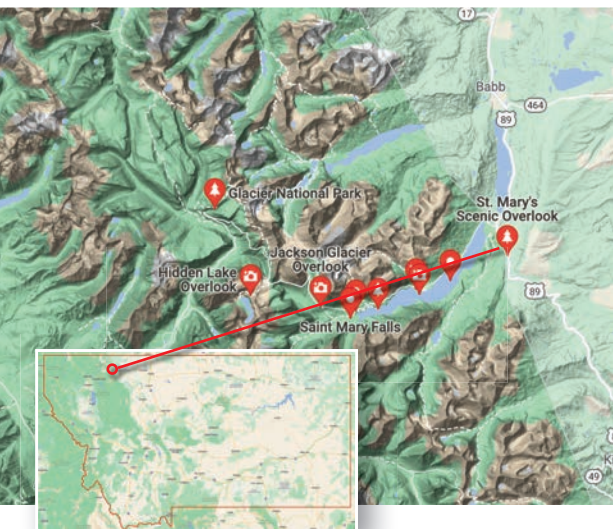
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Above: Designed by Blackfeet Tribal member, Duane After Buffalo, the steel plate Teepee or Tipi per the Tribe's official preference will develop a natural oxidized finish. With the Rocky Mountains as the backdrop, visitors can take in the sculptures and informational plaques along the 8-foot-wide red pathways with ease.



Above: Found off US-89 in Babb, Montana, the St. Mary Scenic Overlook sits on 1.8 acres of land owned by a trust for the Blackfeet Nation. Kent Watson and Associates of Missoula, Montana designed the park to pay homage to native culture, provide accessibility, and respect native vegetation. The project was completed in the Spring of 2017 and was designed to "first do no harm" to the existing landscape.

by Kent Watson, PLA, FASLA

The St. Mary Scenic Overlook provides a panoramic view of St. Mary Lake and the Rocky Mountains – the Crown of the Continent - within Glacier National Park. At 5050' elevation, the area lies within a small slice of Montana that is within the Hudson Bay drainage area.

Occupying approximately 1.8 acres, owned in trust by the USA for the Blackfeet Nation, the site lies along a major north-south highway connecting Canada and Mexico. It is located on the auto "loop" that traverses Glacier National Park via the famous Going-to-the-Sun Road, which sees approximately 2.2 million visitors every year.

The land is part of the legendary home of the 'Trickster', or 'Napi' as he is called in the native Blackfeet language. The tribe has been in these lands, that once extended from central Canada south to the Yellowstone River, for millennia. Currently, the 17,000 enrolled members of the Blackfeet Nation now occupy the 1.5-million-acre territory in northwestern Montana that borders Canada to the north and Glacier National Park to the west.

Wanting to honor the rich Blackfeet history and culture and engage millions of travelers a year, the Tribe and Northern Engineering and Consulting, Inc. (NECI), a Native American-owned engineering firm, choose Kent Watson and Associates to design a space that represented the Tribe, respected the native vegetation and fragile mountain setting and provided universal access and appeal.

The overlook features a parking lot for a dozen cars and several buses/RVs, and a multi-colored concrete main plaza with a steel sculpture of a Blackfeet woman on horseback with a travois, by Duane After Buffalo, a Blackfeet Tribal



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Right: The red pathways follow the site's topography so the pathway would not exceed a five percent grade, making it easily accessible.



Left: From the start, the design team determined that the project should showcase the Blackfeet Tribe as the original inhabitants of this land. It was, therefore, important to attract passers-by by placing an appropriate large-scale feature that could be easily seen from the highway. The steel plate sculpture is positioned on the plaza adjacent to the overlook parking area and 15 feet above the red concrete pavilion. The sculpture that represents the tribe depicts a form of transportation that was used by the Blackfeet as well as other Northern Plains Indians to transport families and their household goods between their camps.

artist. The plaza sculpture base design and encircling masonry wall required a great deal of teamwork with the artist and the engineers to assure that the substantial loads could be safely supported.

An 8-foot-wide dark red concrete pathway meanders down from the Main Plaza to three concrete pavilions. The earthy red color is reflective of the red granite that permeates the nearby mountains. Two of the pavilions feature large sculptural steel Tipi, also designed by After Buffalo. Each pavilion includes a set of signs that interpret the landscape features in view and provide information on Blackfeet culture. The interpretive signage, prepared by the Tribe's Historic Preservation Office, directed by John Murray, the Tribal HPO, is specific to the cultural and spiritual importance of the area and its significance to the Blackfeet Nation.

The project design had to preserve culturally important native vegetation, like (WKOPs) while still taking advantage of the panoramic views, and meeting ADA standards. The accessible curved pathways create little natural disruption while connecting

the two low hills and their open steel Tipi with the upper main plaza. Each of the three pavilions is bordered by low walls constructed of local stone that provide seating for visitors. Because of their loads, each wall was supported using reinforced grade beams that could bridge areas of sub-standard bearing soils. Due to its location, the entire project was designed to withstand the area's notorious severe winter weather, where drifting snows, extremely cold temperatures, and high winds can wreak havoc on structures.

In addition to serving as the setting for the 10-foot-high native steel sculpture, the main plaza is designed to provide ample space for tribal members to market their native crafts to visitors which are for sale in the lower entry plaza.

Kent Watson & Associates was responsible for the overall design of the facility, working as a sub-consultant to NECI, the prime consultant for the Blackfeet Nation. KW&A prepared the designs for all the features within the project and coordinated directly with the engineers and tribal officials to assure that all public health and safety

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Left: The view from the second pavilion Teepee is 18' in diameter. From inside the Teepee, views of the Rocky Mountains within Glacier National Park surround the sculptures since the design is minimally invasive to the natural habitat.

Below: After Buffalo built each structure in his shop. They were then transported to the site and set in place and the tops of the Teepee poles were welded on-site.



Above: All of the walking surfaces are colored concrete with a deep red pigment to reflect the dark red granite that is characteristic of the mountains that dominate the scene. The walls are constructed of CMUs faced with local sandstone. The materials and their colors were chosen to blend with and reflect the natural setting of the site. (Inset) There are eight signs throughout the project that are all part of an interpretive program created by the Tribal Historic Preservation Office. Depending on their location and orientation they identify various prominent landscape features and Blackfeet stories that relate to the history of the feature within the tribal culture. Others speak more broadly to cultural icons, such as the importance of the beaver.

standards were met. Since the project was fairly remote, Watson logged over 2,300 vehicle miles between their Missoula office and the Reservation over the three years of design prep and production.

The project was largely funded by federal grants through the FHWA Public Lands Discretionary Program and fulfilled five of the eight criteria set forth for such projects, even though only one category needed to be met. The criteria included transportation planning for both tourism and recreation, parking space on tribal/federal lands, interpretive signage of cultural and spiritual importance within the tribe, pedestrian and bicycle access, and a roadside rest area that consists of primitive facilities that are scalable based on funding.

The overlook was officially opened by a Blackfeet Tribal Ceremony on May 31, 2017. This ceremony featured a Blackfeet Honor Guard, an Honor Drum Song, and a Blackfeet prayer, offered by Tribal Elder, Chief Earl Old Person, in both the Blackfeet language and English. Jack Gordon, the Landscape Architect representing Glacier National Park, spoke highly of the cooperation between the National Park Service and the Tribe in the design and construction of the feature. He also highlighted the project's importance in interpreting the Blackfeet culture that is integral to the entire region. After the ceremony, the design team was presented a sweetgrass braid in honor and recognition of their contributions to the project. 

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A New Texas



Star

Landscape Architecture by Halff Associates

Tucked away in the neighborhoods of Leander, Texas, you will find the beautiful Lakewood Park and soon understand why this park has become a prime destination for residents and a regional attraction for out-of-town visitors.



In the Austin, Texas, suburb of Leander, Halff Associates, Inc., designed a 100-acre area into Lakewood Park. A local developer donated 50 of the acres, in which a central pavilion was built that provides shade, seating and game tables, and serves as a hub for surrounding activities, whether at the playground, splash pad, skate park and other areas. Throughout the park are also bike racks, water fountains, a dog park, even a kayak launch.



Above: Completed in September 2020 at \$8.75 million, the project was funded through general obligation bonds, parkland dedication funds, the proceeds from a general obligation bond and a grant from Texas Parks & Wildlife. This playground was situated within existing trees, including oaks, to provide natural shade. Concrete curbing separates the wood-chip-filled, and poured-in-place playground surfaces from the seating areas. Landscape furnishings were specified from Landscape Forms. All landscaping is irrigated by rainwater collected into a cistern from the pavilion roof.

Leander is a booming suburb 10 miles outside of Austin that has grown from 26,000-plus residents in 2010 to more than 60,000 residents in 2020. With this recent influx in population, the city was looking for a space that could encompass multiple recreational needs. Thanks to an additional 50-acre donation by a local developer, Lakewood Park was destined to be Leander's premier park. The project, which was completed in September 2020 at \$8.75 million, was funded through general obligation bonds, parkland dedication funds, general obligation bond proceeds and a Texas Parks & Wildlife grant.

This 100-acre park designed by Halff Associates, Inc., provides various features that attract a wide range of users. Basketball and volleyball courts provide opportunities for exercise, and a large splash pad entertains children on hot summer days.





Right: A large promenade connects the main pavilion to a 13-acre event lawn that hosts citywide events, concerts, festivals, and open play. The lighting, including these arched light posts and the lighted bollards was specified.



Sitting in the center of the playground, skatepark and splash pad is a large pavilion and restroom facility. The pavilion is host to several picnic tables, grills and outdoor game tables. The pavilion's large roof collects rainwater into a cistern which is used to irrigate all landscape beds. The centralized location of the pavilion allows parents to relax in shaded seating while within view of children playing on the playground or splash pad.

The splash pad blends into the natural park setting by using boulders excavated from the project site to form the walls shaping the splash pad river basin. The splash pad is designed to represent the rivers that feed Lake Lakewood. The river contains splash features lining the river channel and the walkways on the side, filling the river with water leading to the bottom basin. The 120-foot-long river gently

slopes down to a basin collecting all water and fills to a depth of 6" for kids to splash in. Water spills out of walls and from water cannons above, providing additional splash play for kids in the water basin. Delicate grading and natural edge concrete blend the edges into the existing landscape. Seating placed around the splash pad under existing trees provides several opportunities for parents to watch their kids from the comfort of a shaded spot.

Meander over to the playground and you'll see children engaging in multiple activities.

The play area enables children of all abilities to explore new opportunities and challenges. The focal point of the playground is a 25-foot tall tower in which children have to climb several levels of nets to reach the top. Swings and climbers for all

Above: The Lakewood splash pad was designed to simulate the rivers that feed the park's lake. Boulders creating its walls were excavated from the project. The splash pad has water shooting from the stone walls and sides allowing water to collect in the shallow basin for additional splashing.



ages dot the playground around the tower and shaded seating around the perimeter for parents.

A 3-acre dog park, one of the area's largest, gives dogs of all sizes opportunities to run around and interact with fellow paw pals. Walking trails and seating within the dog park give users an opportunity for exercise while their dogs play.

Several miles of trails weave throughout the park, allowing residents to maintain an active lifestyle and enjoy the natural surroundings.

"The design was laid out to preserve the dense tree population," said project manager

Brandon Hay. "Our primary objective was to preserve the local ecosystem as much as possible. We spent much of the design phase working the layout to carefully fit the program elements around trees and site features."

Due to the sweltering Texas heat, it was imperative that designers strategically incorporate shaded areas throughout the park.

A 13-acre Great Lawn, consisting of a half-mile loop trail, encircles the event lawn. This area is perfectly situated for big events such as the Leander Liberty Fest Fourth of July Celebration and the Leander Bluegrass Festival. Several food

truck stations are positioned around Great Lawn and play areas for vending during large festivals.

The Great Lawn overlooks the beautiful Lake Lakewood. Fishing nodes, picnic pavilions, trails and a kayak launch facility line the lake. A self-service kayak launch enables patrons to rent two-person kayaks, stand-up paddleboards, life jackets and oars through Austin-based vendor Paddle EZ. Just like renting an electric scooter or bike, Paddle EZ offers an easy solution to rent kayak equipment via a self-service mobile device.

Kayakers also have the option to drop off their equipment at the launch site.

Left: The entry to the splash pad is a toddler splash zone and provides plenty of seating for parents. The layout of the splash pad incorporates the existing trees into the seating and play zones.

Right: Water cannons above the river basin were also an important part of the design.

Left: The fishing pier, arches out over the 45-acre lake. The pier was designed and built to withstand rising and falling water levels throughout the year.



Lake Lakewood has been a fisherman's haven for many years. It's a key element to the park, and the design team wanted to ensure it remained a fishing paradise for years to come.

Halff and the city of Leander strategically put together a plan to incorporate fishing into the park. This resulted in a grant issued by the Texas Parks & Wildlife Department, giving Lake Lakewood an ample amount of fish that are stocked regularly by the agency.

"During construction, we were constantly having to kick out fishermen because this had become a great spot for fishing," said Hay. "It was a hidden gem that spread by word-of-mouth. Now, we offer the opportunity for fishermen, local and regional alike, to come out and enjoy the great fishing the lake has to offer."



Several miles of trails, designed for all types of users and surfaced with concrete, decomposed granite and wood chips weave through the park. The trails connect to the adjacent neighborhoods allowing convenient access for everyone.



New Line Skateparks, a landscape architecture firm based in British Columbia, designed the poured-in-place concrete skatepark.



A circular pier built into the park allows fishermen to venture out and set up their reels for the day. The main objective was to extend the pier deep enough into the lake to allow for a prime fishing locale. Several banks throughout the area are also excellent spots to fish.

Challenges abounded in the early design of the project. The entire site sat within a 100-year floodplain, thus resulting in logistical challenges that needed to be addressed. The Halff design team made concerted efforts to ensure the park could sustain flood impacts without interfering with nearby residential properties.

Dense vegetation and trees created an access challenge as there were limited points inside and outside the property. Trees that were removed in the initial process were recycled and used throughout the park, preserving the natural ambiance of the area.

“Lakewood Park is a hidden gem in Leander,” noted park patron Elena Ladd. “This park has a lovely lake with a fantastic fishing pier and picnic areas, a dog park, skate park, basketball court, beach volleyball, kayak rental and splash park. Excellent wide concrete trails for bicycles and strollers. I was pleased to find this relaxing area in Leander.”

Lakewood Park is situated along with a planned regional trail system, which will eventually connect the park to surrounding cities and parks. Lakewood Park will continue to grow in the years to come. Additional phases will bring trails, courts and a performance stage for large events. 🌿

TEAM LIST:

Mark Tummons
Director of Parks and Recreation, City of Leander
Brandon Hay, PLA, ASLA, CLARB
Project Manager, Halff Associates, Inc.
Landscape Furnishings - Landscape Forms
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Information Request # 525



Above: Found 8' below the street level, the South Union Street Pocket Park in Danville, Virginia was designed by Beechgrove Design Landscape Architecture of Moneta, Virginia to incorporate the history of the site. The park is 50' by 100' in size and was completed in May 2021.



Above, Center: The park is accessed by a gate that gives way to a steel landing and opens up to both the stairs and a wheelchair lift. Custom iron fencing was constructed by local company, Reynolds & Easley Manufacturing. A repurposed beam above the gate provides continuity in streetscaping while adding visibility from the road.

Historic Pocket Park

by Tenda Carter Leavitt, Beechgrove Design Landscape Architecture

Tucked away in the bustling River District of Danville Virginia, the four-story New & Miller building, built in 1886, was set to be demolished due to structural issues. Originally a harness and carriage store and stable, the building also held a rich history as it sat next to the site of the Danville Register and Bee. The city wanted to honor that history and use the space as a gathering place, so they selected Beechgrove Design Landscape Architecture to help develop a new Union Street Pocket Park. Completed in May 2021, the site sits 8' below the adjacent street level.



Above, Right: Since the space is narrow, bringing materials onto the site was tight, and became more of a challenge as construction moved forward prior to the completion of the stairs and elevator. The fountain was lifted by a crane days before the ribbon cutting and was brought in to mitigate the sound of a transformer. The brick 'box' in the corner was constructed to hide and protect water service structures and has a steel top which can be opened for service, and functions as an informal seat. (Inset)



Left: Inspired by mounting blocks that were common in public spaces when horses were used for transportation, the new brick clad steps are situated on an axis with a water feature, brick band, and recessed window that is found in the original wall.

Historic Pocket Park

A major challenge the design team faced was the demolition of the four-story building that was surrounded by historic buildings, which were also undergoing renovation during the demolition. The team wanted to preserve elements of the building which were structurally sound, namely the exterior walls of the basement, to honor the former building's architecture and history. The contractors maneuvered cranes within the limited space and despite restricted construction conditions, the company was able to remove the building and carefully relocate original wood trusses

and beams which were repurposed as design elements in the park, like a custom-built pergola and a beam along the sidewalk.

"I noticed the historic stone foundation wall the very first time we ventured down the broken steps into the basement. It is so satisfying that the city was willing to create the park at a lower elevation to appreciate the layers of history," explained Tim Clark, President of Blair Construction, who worked as the primary contractor on the project. "The original livery windows, the underground drainage system, the recycled building columns, and the

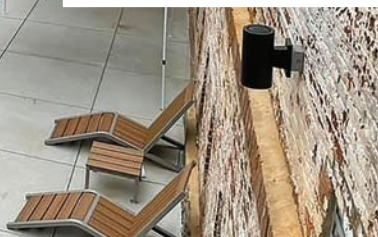
roadway foundation wall would have all been lost at a higher elevation."

Now a central aspect of the design, the existing brick and stone foundation walls provide character as well as a sense of history to project and frame the 50' by 100' perimeter. A History Panel on site illustrates maps, postcards, and photographs from the late 19th century to tell the story of this place.

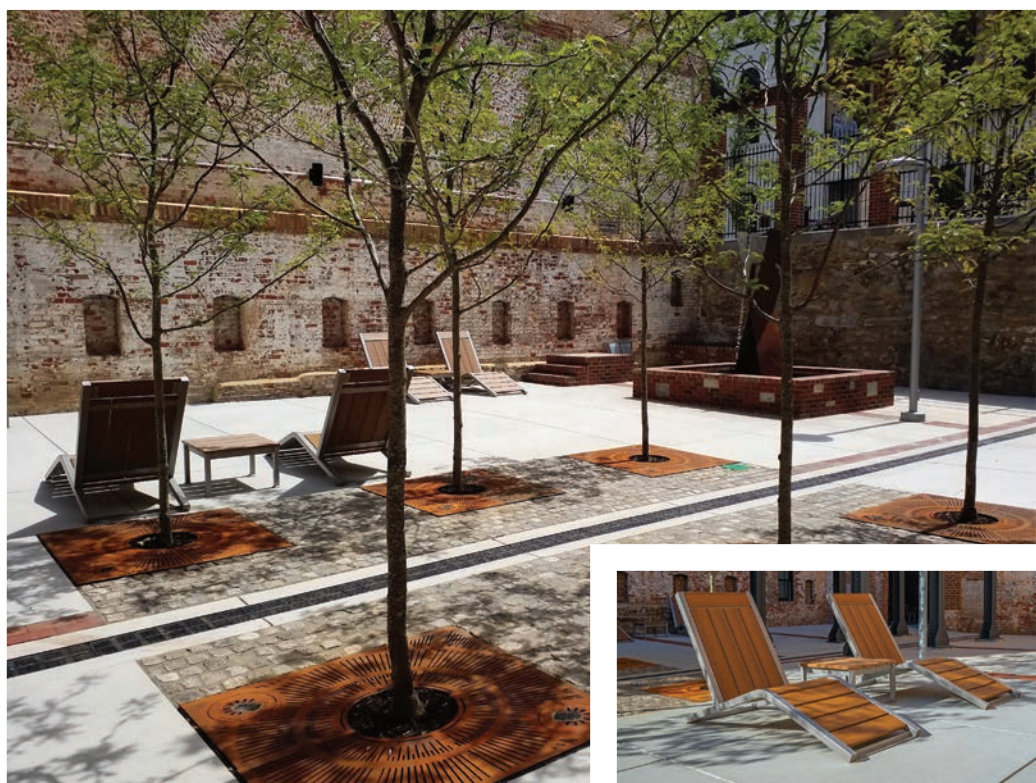
Smaller spaces were designed to provide diverse rooms within the larger overall space. Surrounded by four-story buildings, structures like a pergola and tree



Above: The fountain, designed by Randy Bolander of Modfountain, is made of Corten steel. Modern in style, the fountain was created to contrast the surrounding historic walls. Much like how the walls have weathered over 135 years, the Corten steel of the fountain will weather until the steel achieves a stable patina. The fountain and basin were built and installed in less than a week to meet the ribbon cutting deadline after the water feature was added late in the process.



Below: The color palette was chosen to both coordinate and contrast with the surrounding exterior walls. Thomas Steele's Monona series furniture (Inset) are made of recycled materials in the USA. Several colors were chosen within the furniture selection to add another element of interactive design, and is moved around frequently by users, providing an ever-changing color combination. Pavers are Unilock Richcliff 3 Piece Concrete Paver in Smoke Shale.



grove were added to create comfortable proportions and sub-spaces. The tree grove features Thornless Honey Locust trees that sit within granite cobble and natural stone paving salvaged from historic streets in Danville. The pergola, custom-built on-site by Blair Construction and designed by the Landscape Architect, is constructed of historical wood beams and steel posts from the New & Miller Building.

The east wall, the former entrance to the stable from an alley, was preserved and stabilized with primitive window and door openings. The space behind this wall

provides a more private, quiet, and shaded zone away from the main park area. The repurposed paving materials were used in the design to create three distinct spaces for dining, events, meetings, work, or rest. Original weathered brick columns, walls, and an 'I'-Beam were preserved and incorporated into the park.

Accessibility and Challenges

Universal access to the park with a Savaria wheel-chair lift. Early conceptual designs explored various ramp layouts, which occupied substantial floor space and blocked views of the historic walls.

The landing was custom designed and fabricated to provide a transition between the sidewalk and stair/wheelchair lift entrances. Unobstructed views into the park from the sidewalk and landing draw people into the space.

A large transformer proved to be a design challenge as a buzzing sound from the machine became a distraction. To eliminate the noise, a proposed water wall which had been removed earlier in planning due to cost was revisited. This led to the idea of using a water feature to mask the sound. The X1 fountain from Modfountain proved

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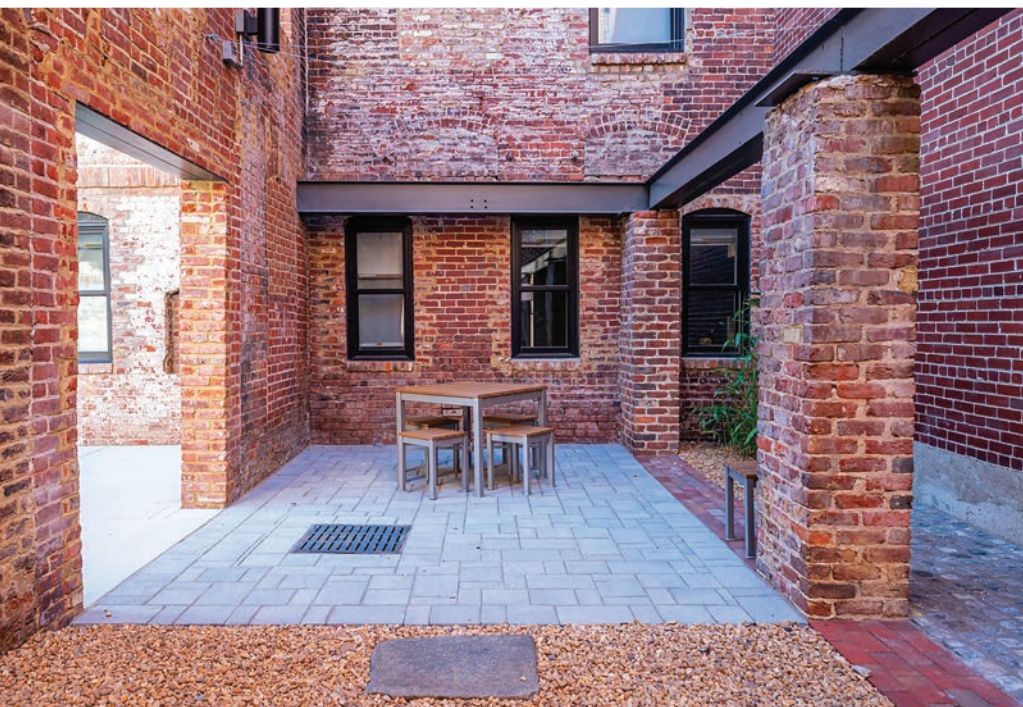
Information Request # 547



Historic Pocket Park

Continued from page 66

Below: Located adjacent to the main park on the east side is a 20' by 50' space that lends itself to the creation of rooms off the main portion of the park. This section was once the site of an alley that led from nearby Patton Street to the stables. The original 'I' beam was sandblasted and repainted, while the granite cobbles were salvaged from various historic Danville streets. Windows of The Bee Hotel face this portion of the park.



Above: The pergola was a custom design by Tenda Leavitt of Beechgrove Design Landscape Architecture, based upon the exact number, lengths, and sizes of beams and joists reclaimed from the building. Several iterations of the pergola were developed before the team selected the style as built. All wood members of the pergola were repurposed from the demolished building. The steel beams are original to the basement and were re-set in their previous locations. The configuration of the pergola was derived from floor support design in the historic building.

to be an economical and aesthetically fitting option that was designed for maximum sound and minimum overspray.

"The rustic oxide patina of the X1 perfectly complements the architectural elements of the park's brick, stone, wood, and steel," Fountain Artist, Randy Boldander went on, "The sound of its cascading water, splashing into the open pond, dissipates the sounds of the street noise and the hum of a nearby transformer. Installation of the X1 was a logistical challenge. The solution arrived in the form of a crane truck and experienced crane

operator who deftly picked the piece off the sidewalk and gently lowered it into position on its base."

Arrow Bamboo were planted as a design feature in three Form and Fiber rectangular planters in front of the transformer and in the east alley room's below grade planters for year-round greenery.

Uses and Management

"Danville has a wide range of traditional parks throughout the city; however, this space is the first of its kind and sets the stage for public spaces downtown going

forward. Danville is in the process of developing 4.5 acres along the riverfront as a Riverfront Park, but intimate spaces such as the Union Street Park are equally important and needed," Director of Parks and Recreation, Bill Sgrinia explained. "The Park has been well received by the public. Many small groups have used the space as a public meeting space for office meetings or event planning."

The pocket park is managed by Danville Parks & Recreation and is available to rent for special events and will act as a way to remember the city's deep history. 

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Park Design Prioritizes Play, Sustainability, and Accessibility

by Greg Miller, MRWM



Left: Juan Tabo Hills Park encompasses a 1.5-acre space in the middle of a residential neighborhood in the foothills of Albuquerque, New Mexico. The design by MRWM Landscape Architects, a firm based in Albuquerque, prioritized blending the natural and built environment and creating opportunities for children of all ages and abilities. Colors of blue, green, and orange were specifically chosen to reflect the natural geology and plants of the area. Rich earth tones were also included as highlights.

Juan Tabo Hills Park is a stunning example of a park that provides a truly unique user experience. Nestled into the foothills of Albuquerque, New Mexico it takes advantage of the natural topography and native vegetation to create a dynamic setting. Led by landscape architecture firm MRWM, the design immerses visitors into a space that blends a wide range of gathering and play spaces.



This Page: The park features three lower play pockets and an upper plaza with two other adjacent play pockets. The play pockets are divided by drainage swales creating shapes that are organic and also related to the topography. The play structures are from Landscape Structures. Of the three lower play pockets, one has a larger composite structure with several climbing elements. The second has spinning play elements, and the third has swings. The top right picture shows the manufacturer's Omni Spin.



The site posed several design challenges that became opportunities and inspiration for new strategies and solutions. The land had been designated as open space, but grading operations related to adjacent development scraped away its redeeming natural qualities. Its adjacency to a remaining large open space tract suggested that the design could blend traditional and natural park features.

The site is an odd shape, has significant grade changes, and highly erosive soils. Of particular concern was potential damage by Albuquerque's intense summer monsoon

rains. Several utility easements bisect the park, including an emergency access corridor to the neighboring community. The combination of these factors sparked the concept to locate developed play spaces on "fingers" of land that are divided by naturalized drainage arroyos. This topographic pattern shapes the arid Southwest in a dynamic balance of mature plant communities and fluid washes.

The program for the project was to create an environment that provides opportunities for users of all ages and abilities to share in the joy of play. The park is based on the

idea that play is vital to early childhood development by encouraging movement, creativity, social interaction, exploration, and sensory stimulation. Instead of designating a play area within the greater context of the park, the entire park is the play environment.

The design is the culmination of the evolution of environmental play design that incorporates graduated challenges, connections to nature, unscripted activity, and full sensory activation. "We have a powerful human instinct to overcome obstacles, it's what drives us our entire



Left: Steppers made of petrified wood, hand picked from a supplier in Arizona, were added as a play feature to the play pocket north east of the plaza because of their sensory rich appeal with several colors and textures.

Right: The slide is composed of a molded plastic and leads to surfacing made of engineered wood fiber playground surfacing (EWF). That's the standard material MRWM uses in parks and schools in Albuquerque. It meets the safety guidelines for impact attenuation while also allowing lateral displacement if a child falls on it at an angle. It's also considered an accessible surfacing material.



lives to learn new things, gain physical skills, and develop emotionally,” explains Greg Miller, Landscape Architect of the project. “Overcoming challenges leads to a greater sense of pride and accomplishment, which in turn leads to greater socialization as we share our similarities and value each other’s differences.”

Neurological studies have proven that engaging large and fine motor movements and balance stimulates development of our brains. These activities literally create neural connections that last a lifetime. By blending sensory rich environments with play, these neural connections grow to all

areas of the brain. Juan Tabo Hills Park gives form and function to all these concepts. The manufactured play equipment has a variety of options for climbing, sliding, spinning, and swinging. The natural stone steps, groundcover materials, and terraced seating have a rich blend of textures and colors. Petrified wood boulders, sand digging areas, and loose materials allow children to manipulate objects. Diverse plantings create different senses of scale and burst with colors, textures, and aromas.

The various “play pockets” are arranged in a way that mixes a variety of passive and active recreation. The naturalized spaces

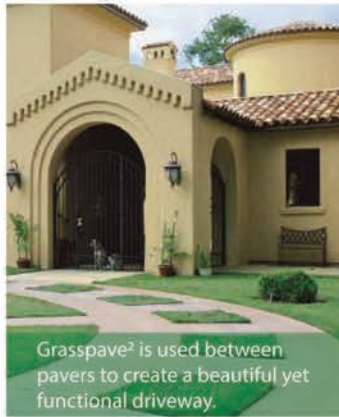
between these pockets are inherently part of the play experience. All these elements work in harmony to create a sense of discovery and adventure. The layout also integrates shaded seating and overlooks that allow adults to be proximally engaged in the play activities.

The circulation design also has a significant role in the function of the park. Accessible curvilinear walkways draw pedestrians through the site, but they also have become an exciting path for children on bicycles and scooters. The concrete header walls around the play equipment double as narrow walkways and seating.

Porous Grass Paver



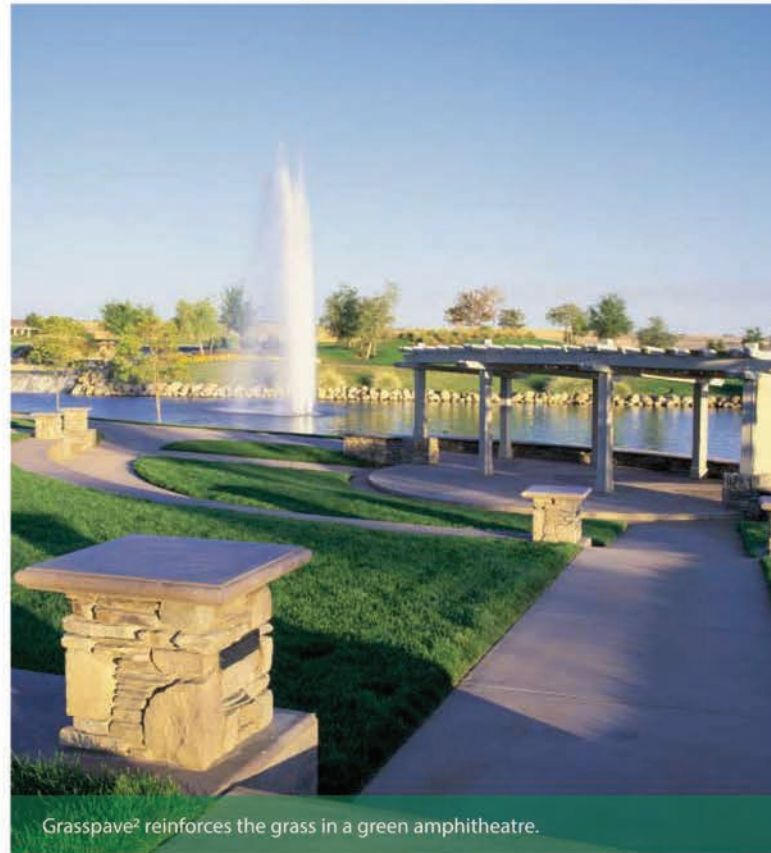
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Above & Right: Standing over the plaza, the shade structure features tensile fabric panels from Superior Recreational Products that come together like the oculus of a camera lens. The attachment points are at three different heights and are designed to give a real sense of airiness and movement throughout the structure. The planting area in this photo is in the middle of the oculus and reflects the shape of the opening. The tables are arranged to be in shade at various times of the day.



Children scramble up stone steps to get from the lower play equipment to the upper seating terrace, then come back down on embankment slides. The area also encourages users to find improvised routes between elements that lead up and along the vegetated slopes. Each of these circulation routes present different challenges, allowing users of all abilities to increase their level of immersion in the space as their self-confidence increases.

The concept of a park that had a distinct natural character provided the impetus to try several, very different design approaches. The plantings and stone materials not only create a unique park aesthetic, they also play a primary role in the design's environmental resiliency. One of the most successful solutions has been the treatment of revegetation seeding on slopes. A custom native seeding and wildflower blend that would thrive without supplemental

irrigation was hand sown onto the slopes. Large cobble was then placed at a density that allowed significant gaps between the aggregate. This solution replicates natural conditions that promote seed germination. The stones act as moisture condensers while the gaps allow sunlight and oxygen to reach the seed bed. The result has been the establishment of a biodiverse plant mass that has filled in between the stones and now provides exceptional soil stabilization.

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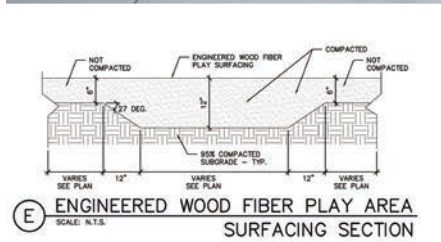
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Park Design *Continued from page 74*

Below: A poured-in-place concrete path wraps around the outside of the play pockets. The plants in the foreground are “Nearly-wild” roses. The trees around the play equipment are Chinese Pistache. The Landscape Architect used a special detail in the play area that allows trees to be planted “within” the play pocket. This detail requires the engineered wood fiber play area surfacing to be a minimum 12” depth within the use zone of the equipment to provide adequate fall protection. Outside of the equipment use zone, it can be shallower. So the Landscape Architect kept the top of the surfacing level, but made the depth less to incorporate the tree plantings. Trees wouldn’t survive if planted in the full 12” depth, so the “bottom comes up” to allow the tree planting.



The plants were also carefully selected to create habitat for pollinators, birds, and small mammals. This solution has been so successful that it has influenced the subsequent creation of new standards and guidelines for slope stabilization for the City of Albuquerque.

Infiltration basins slow the flow of stormwater addressing water quantity and quality concerns. Open-bottom microponds with interim check dams reduce stormwater flow, allowing infiltration and spurring biotic processes that remove dissolved chemicals from runoff. A permeable parking lot helps reduce and

mitigate runoff. A highly efficient irrigation system waters the limited turfgrass, balancing the needs of the site users with the precious use of water in the arid landscape.

Juan Tabo Hills Park has quickly become a prized neighborhood amenity that brings people together. The details are subtle but effective, creating a place that just feels right. Future phases of construction will include a pair of stunning hillside slides that span the 50-foot change in elevation from the top of the ridge to the upper play area. Additional paths will connect the developed park to the adjacent open

space tract, reinforcing the value of this unique amenity. A dog park and additional turf recreation field will provide other opportunities for the community to interact in an engaging, natural environment.

The success of this design has influenced the city’s approach to park design with an emphasis on dynamic play environments that allow immersive experiences, graduated challenges, and multi-generational interaction. It has also shaped city policy toward integrated environmental design of flood-control infrastructure, low-impact development, and loss of urban habitat. 



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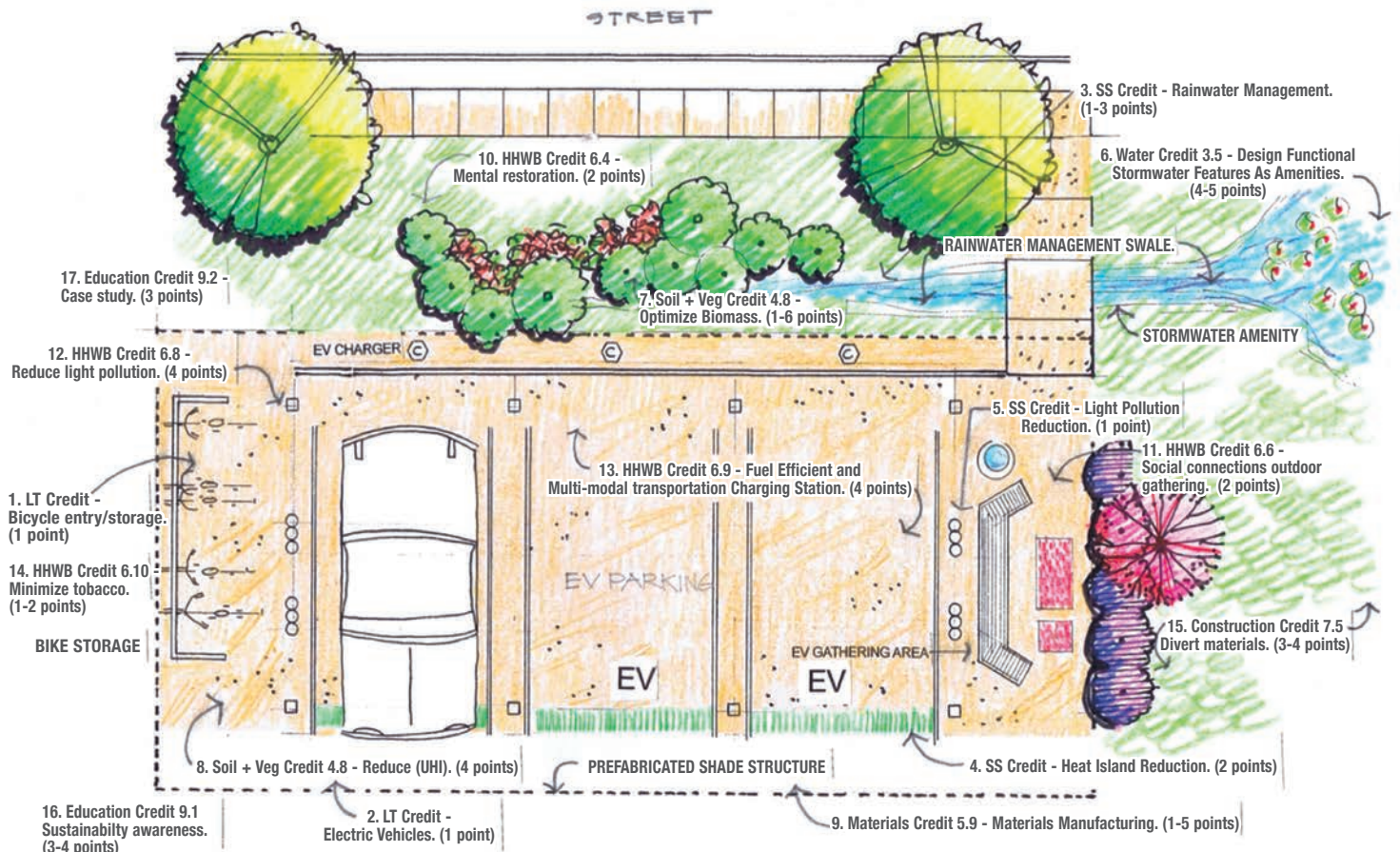


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Above: These designs depict a green parking lot with charging stations. A shade structure, included over the parking spots, improve the sustainability and performance of charging devices.

PHOTO BY ABBEY ASSOCIATES LANDSCAPE ARCHITECTS

Green & Parking Electric Vehicles

by Professor Buck Abbey,
Green Laws Research Project,
Louisiana State University

"The White House is calling for 500,000 new EV charging stations as part of the \$174 billion plan to boost the EV industry"

Wall Street Journal, April 5, 2021

Sustainable Landscape Design

It should be a trend in sustainable design to convert sterile 'grey parking lots' serving gasoline powered vehicles into 'green parking lots' that accommodate alternative fuel vehicles. A useful standard measure of a green parking lot is to provide a minimum of 35% of the parking area devoted to doing environmental work. There are many ways a parking lot can become green. By definition a green parking lot provides environmental services.

To understand green parking, we must look to the future of the country and the way we use public open space. Future urban parking lots will be smaller, conveniently located, and primarily serving clean air vehicles. These include, electric vehicles (EV) natural gas operated vehicles (NGV), hydrogen powered vehicles (HV) and eventually small autonomous, self driving vehicles (AV). These cars will be different from those we drive today.

Green parking lots will be located at multi-modal travel points, near Interstate Highways and connected to transit terminals, shopping areas, entertainment districts, business centers or mixed use residential nodes. Suburbs will be connected by light rail, air rail, or subway vehicles also powered by renewable energy. Planted, multi-use open space will be an important part of these future parking lots and they will connect to bikeways and pedestrian walkways that will also serve golf cart sized 'personal carriers' for independent neighborhood traffic.

Greening Parking Lots

It is easy to recognize the elements of a green parking lot. From the late 1960s,



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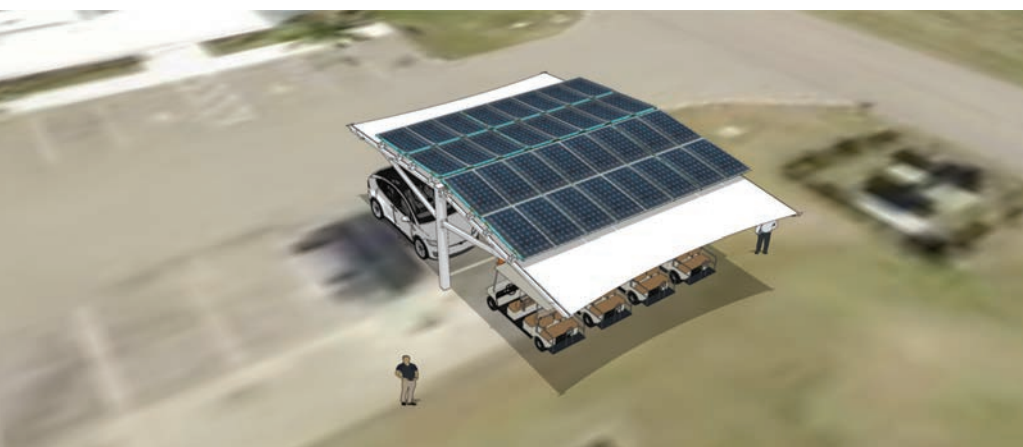
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Information Request # 501



Left: The 6.8 kilowatt solar panels (top image) use the sun's energy to replenish the electricity used by the charging stations. Each charging station uses electricity sourced off the grid, so the solar panels help refill what has been used. However, the solar panels do not supply enough energy on their own to fully supply the charging stations themselves. The six car structures along with the 6.8 kilowatt solar panels cost about \$60,000. Apollo Sunguard also offers 13.6 kilowatt solar panels (bottom image) that cost approximately \$75,000 to \$80,000.

PHOTO BY APOLLO SUNGUARD



parking lots recognized the benefits of beauty in parkings. In the 1970s, inspired by the first Earth Day, the first community landscape codes called for a variety of planting options for visual improvements, screening, and shading. In the 1980s, studies were conducted to determine how trees in parking lots affected air purification, solar control, and urban heat. We also learned at this time the importance of tree canopy in cooling cities. In the 1990s, stormwater management was recognized by the EPA for its benefit in reducing non-point pollution, stopping soil erosion, infiltrating ground water, and intercepting solid waste.

The Americans With Disabilities Act of 1990 led to the incorporation into landscape codes of standards aimed at human health and well being. Parking lot standards recognize handicapped citizens by setting aside 'designated parking spaces' that made access to public buildings safer and more convenient for the elderly, infirm and sightless. Later parking was segregated for clean air vehicles (CAVs). Green parking lots can sort automobiles by use, size, capacity, and power train type.

At the turn of the twenty-first century, parking lot retentions, rain gardens, and bioswales came into common usage since they help preserve wetlands and provide native habitat within, or in close proximity to parking lots. These natural features also provide shelter and food for small creatures in the city.

LEED & SITES

The concept of sustainability entered the picture for architects, Landscape Architects and engineers when LEED™, the green building system, was introduced in 1998 (refined in 2007). Shortly thereafter the SITES™ program became available for Landscape Architects to use to create green buildings and restore disturbed urban lands. With these technological improvements, attention now can be turned toward designing green parking lots. Many SITES and LEED credits can be earned while designing parking lots to be sustainable.

For instance, parking lot paving can be designed for solar reflectivity. Coupling this with solar angle control will reduce

urban heat buildup in cities and effect micro-climate. In addition, more attention can now be given to stormwater management, site soil fertility preservation, and vegetation biomass stabilization. Just recently a new sustainability credit was announced to help de-carbonize the design of sustainable landscapes. Furthermore, both LEED and SITES included green building practices pertaining to selecting sustainable building materials and green construction methodologies. But more importantly, perhaps the SITES program has developed standards to promote human health and well being associated with designed landscapes. Health research in recent decades point to beneficial effects of nature in regard to physical activity, mental, stress reduction, and behavioral health and social cohesion connected to nature in the city.

Cities are concerned with using alternative energy sources so parking lot lighting is being powered by the sun. A variety of low energy usage options such as compact fluorescent lamps, light emitting diodes, and halogen incandescents are much more energy efficient, and when combined with timers, photocells and dimmers reduce the cost of producing night time illumination. The control of electric energy wastage is an important feature of green parking.

Today, parking lots provide open space benefits and multi-use capabilities. They are taking on a new role. Parking lots can be designed for neighborhood connectivity, access to multi-modal travel, walking, biking, and physical recreation. There is even a place in green parking lots for bike parking and bike share opportunities for commuters. Better still, we find policy

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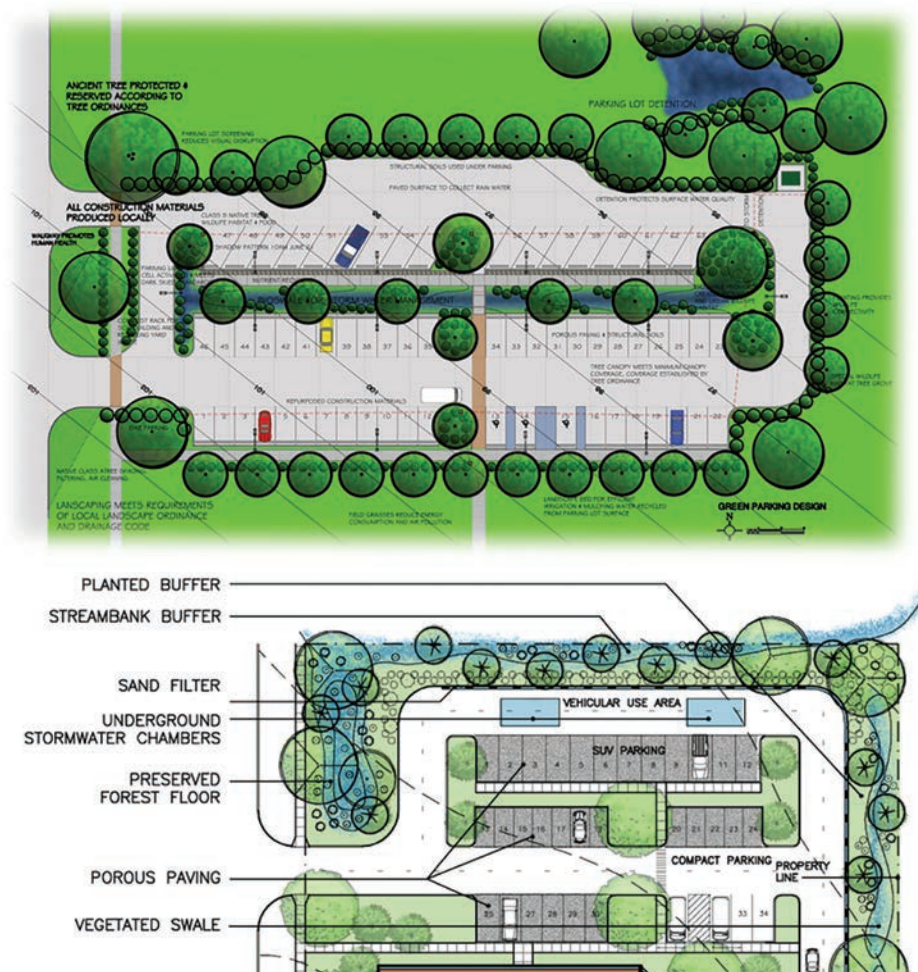
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Left, Above: Plans from Abbey Associates Landscape Architects create a green parking lot with drainage features.

PHOTO BY ABBEY ASSOCIATES LANDSCAPE ARCHITECTS

Left, Below: This illustration shows a design for a green parking lot.

PHOTO BY ABBEY ASSOCIATES LANDSCAPE ARCHITECTS

expected cost of this, according to estimates, is \$300 billion. In the near future charging stations will be as ubiquitous as the corner filling station. Presently some 58,000 miles have been designated by The White House as “alternative fuel corridors” where the nation will first install a nationwide network of charging stations. Look for travel signs when you tour America.

Presently, we see stand alone chargers in parking lots, along curb lines, near hotels, and retail shopping areas and a few other pioneering locations such as multifamily housing, city halls, and university campuses. But in a green parking lot a charging station consists of other elements.

Principally they contain a bevy of chargers, defined size parking spaces, an overhead fabric shade structure, appropriate markings, and signage. The shading of charging equipment is very important since it greatly improves the efficiency of power transfer. Most community codes require charging stations to be sheltered and have night lighting. In addition, they contain a space for socialization while waiting. A bike share and parking arrangement with a connection to multimodal forms of transportation may allow short off site visits while waiting for a charge. Green parking lots in the future will have EV car sharing operations too where many urban automobile users rent an EV or AV for short around town or a longer out of town trip.

Parking lots in the future may very well serve as some of the most prominent civic open spaces available. Especially so as personal mobility vehicles become smaller and mass transit is more prevalent. It is estimated by 2040 some 33 million driverless vehicles powered by battery and guided by 3D imaging and artificial intelligence (AI) will be looking for parking spaces in parking lots that are vastly different from what we have today. Green Parking will move us forward. 

makers from the East coast to the West coast rethinking the nature of parking lots in the city and adapting community landscape codes to better address the parking lot, not as a place to store cars, but as a link in the entire system of city mobility.

Electric Vehicle Charging

As the country turns more and more toward a less-carbon economy, and as supplies of non-renewable oil based energy disappear, drivers will turn toward electric vehicles. Recent announcements in the Wall Street Journal by some of the biggest automobile manufacturers are predicting huge increases in the production of electric vehicles.

Since these vehicles will require many locations where recharging is needed, particularly for long distance travel, ‘charging stations’ need to be built to fuel these cars. Presently most electric vehicles are charged at home with low cost charging equipment attached to a building electric supply. However, these home charging stations, known as a Level 2 Charging Equipment, have their limits. It takes hours

of normal home charging and add greatly to the monthly home electric bill.

It is necessary to use public charging stations for longer trips. These stations commonly contain Level 2 charging equipment or DC Fast Charge equipment. Level 2 will provide 10-20 miles of range per hour of charge. This public minimum 40-amp charger takes 6 hours to fully charge a standard vehicle. The DC Fast charge is the more expensive model offering 50-60kw and 100+ amps of power and will provide an 80% charge in 20-40 minutes and a full charge in 60 minutes. Time of charging is a factor of battery capacity (kWh) and charging power (kW). Drivers will have to search for charging station locations as they travel the nation’s highways. They will find them in green parking lots.

There are some 50,000 charging stations in the country today. The current administration is calling for 500,000 new charging stations by 2030 to handle the amount of EVs in use by that time. The



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NRPA Poll Shows Parks and Recreation Provides First-Time Job Opportunities



A recent NRPA poll shows that park and recreation programs provide valuable first job opportunities. The poll also showed that 56 percent of women compared to 48 percent of men see parks and recreation career exploration as beneficial to teens and young adults.

According to a National Recreation and Park Association (NRPA) poll, 96 percent of U.S. adults agree that teenagers and young adults benefit from their first job or volunteer experiences that park and recreation agencies offer. Benefits include developing skills, building confidence, and gaining valuable work experience.

Park and recreation departments are great providers of first-time job and volunteer opportunities like lifeguarding and camp counselor.

“Park and recreation agencies offer diverse first-time job opportunities that allow young adults to gain experience while taking part in meaningful activities and giving back to their communities,” said Kevin Roth, NRPA vice president of research, evaluation, and technology. <https://tinyurl.com/2p89duf2>

US Department of Agriculture Launches Response to National Wildfires

The United States Forest Service announced that Agriculture Secretary Tom Vilsack and Forest Service Chief Randy Moore are launching a comprehensive response to the nation’s wildfire crisis. Their response focuses on significantly increasing fuels and forest health treatments by working with other federal agencies, Tribes, states, local communities, private landowners, and other partners.

“The strategy highlights new research



The Agriculture Secretary and the Forest Service Chief’s response is titled “Confronting the Wildfire Crisis: A Strategy for Protecting Communities and Improving Resilience in America’s Forests.”

on what Forest Service scientists identified as high risk ‘firesheds’ – large, forested landscapes with a high likelihood that an ignition could expose homes, communities, infrastructure and natural resources to wildfire.” Firesheds are considered to be about 250,000 acres in size, and they are mapped to match the scale of a community’s exposure to wildfires.

Their strategy involves the Forest Service to treat 20 million acres of national forests and grassland and support treatment of another 30 million acres found on federal, state, Tribal, private, and family lands. <https://tinyurl.com/48pd4y94>



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Information Request # 524

NAHB Supports GOP Efforts to Halt WOTUS Rulemaking



The National Association of Home Builders (NAHB) supports the Republican backed letter requesting that the Environmental Protection Agency (EPA) halt its 'Waters of the United States' (WOTUS) rulemaking while the Supreme Court considers a case brought by the Idaho couple, Chantell and Mike Sackett on the Clean Water Act (CWA).

The couple's case focuses on the legality of the 'significant nexus' standard used by federal regulators to assert federal jurisdiction over any non-navigable, isolated wetlands, and intermittent and ephemeral streams and ditches could have major implications for the CWA's

permitting and enforcement programs.

GOP lawmakers are also very critical of the WOTUS rule as currently proposed. Lawmakers note that "severe financial penalties stakeholders could face for conducting standard agricultural or other land development practices under the proposed rule, family farmers and ranchers are understandably alarmed."

The unilateral decision by the agencies, without public input, means that landowners must immediately follow the federal definition of WOTUS that existed prior to both the Trump and Obama WOTUS rules. <https://tinyurl.com/ybbf8u3b>

2022 Housing Affordability Will Remain Challenging

According to the National Association of Home Builders (NAHB), housing affordability will remain a challenge through 2022.

Low existing home inventory and strong buyer demand will keep the housing market hot moving forward through 2022. Meanwhile, builders continue to struggle with material bottlenecks and labor shortages that limit the pace of

construction and keep upward pressure on home prices according to economists who spoke at the 2022 International Builders' Show in Orlando on February 8, 2022.

"Building material costs are up 21 percent compared to a year ago," said NAHB Chief Economist Robert Dietz. "Their price and availability, along with persistent supply chain bottlenecks, remains the most urgent challenge for builders as they seek to boost production to meet rising demand."

Meanwhile, builders are contending with persistent labor shortages, with the government reporting more than 300,000 job openings in the construction industry in December. <https://tinyurl.com/5fk87zpb>





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Information Request # 599



The White House is planning to add 500,000 electric vehicle charging stations throughout the United States.

White House and US DoT Releases Toolkit for EV Charging Stations

The White House in conjunction with the US Department of Transportation released a free guide to assist rural communities with taking advantage of federal funding for electric vehicle charging stations. The guide, titled Charging Forward: A Toolkit for Planning and Funding Rural Electric Mobility Infrastructure, is designed to be used as a tool for cities, planners, and other organizations to more effectively utilize the \$7.5 billion allocated to building 500,000 electric vehicle charging stations across the United States. The toolkit is said to contain best practices for planning EV

charging networks, tips about navigating the federal funding and financing.

“Drivers in rural areas often have the longest commutes and spend the most money on gas, which means big benefits from having access to electric cars and pickup trucks if they are affordable and easy to charge where they live and drive,” said Secretary Pete Buttigieg. “The investments in the President’s Bipartisan Infrastructure Law for a national EV charging network are an important step toward ensuring that EVs aren’t a luxury item and that everyone in America can benefit from clean transportation.”

<https://tinyurl.com/4f8yrnva>

NRPA Inaugural Business Council Launched

The National Recreation and Park Association (NRPA) recently announced the launch of the Business Council which will serve as a collaboration that will strengthen the connection between parks and recreation and the business sector.

The NRPA Business Council was designed to bring the two sectors together to solve common challenges together, fuel innovation, activism and advocacy, and promote research to enhance the quality of life.

“Local park and recreation agencies generated more than \$166 billion in U.S. economic activity and supported 1.1 million jobs from their operations and capital spending in 2017 alone. The essential services our park and recreation professionals provide are critical lifelines into communities across the country that improve quality of life for everyone,” said NRPA President and

CEO Kristine Stratton. “We are thrilled to launch this new initiative and bring Business Council members together to explore, share and deploy powerful park and recreation solutions.”

The inaugural NRPA Business Council members include professionals from companies like BCI Burke, PlayCore, and Greenfields Outdoor Fitness, Inc. <https://tinyurl.com/2h53bt26>



The NRPA Business Council was created to strengthen and create a stronger connection between the private sector and the parks and recreation sector.

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Information Request # 607

AASHTO Urges EPA to Establish Clear WOTUS



According to AASHTO, the association's biggest concern pertaining to EPA repeatedly changing the Waters of the United States definition is the need for clarifying the standards used to determine the jurisdictional status of roadside ditches.

The America Association of State Highway and Transportation Officials (AASHTO) expressed concern with the Environmental Protection Agency (EPA) in a recent press release over the EPA's changes to the definition of the Waters of the United States (WOTUS). The Association had initially written a letter to the Department of the U.S Army and the Office of Water Oceans, Wetlands, and

Communities Division with the EPA in which AASHTO outlined their concerns of the constantly changing WOTUS.

In the press release the association explained that their main concern was frequent changes that were being made. "We caution that any final rule should truly be final, to the extent possible," AASHTO said in its February 2 letter. "Frequent rule changes – especially of the magnitude characterizing the WOTUS definition – can be damaging to our members, because uncertainty has a substantial impact on transportation projects that often have a long lead time." <https://tinyurl.com/4tsfu929>

Building Materials Top Challenge for Builders

Building material prices were a significant issue for 96 percent of builders in 2021 while 91 percent of the builders expect this to continue being a problem in 2022 according to the National Association of Home Builders (NAHB)/Wells Fargo Housing Market Index.

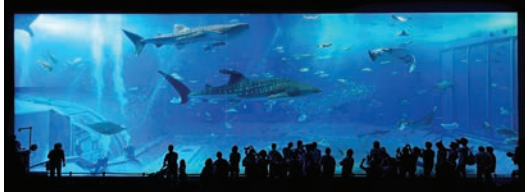
Availability and the time it takes to

obtain building materials were also a predominant issue for the large majority or 91 percent of builders. 90 percent expect it will remain an issue in 2022.

The portion of builders reporting building material prices as a "significant problem" has trended upward over the course of the last decade. Meanwhile, the cost and availability of labor was reported as a significant problem by only 13 percent of builders in 2011 while it increased to 82 percent in 2021. <https://tinyurl.com/3vacrz7x>

Based on the NAHB/Wells Fargo Housing Market Index (HMI) monthly survey, building materials are the top challenge for builders in the hot housing market.





AZA Selects 11 Projects for the Planet Grant Funding

To celebrate the planet, members of the Association of Zoos and Aquariums (AZA) join together for Party for the Planet events in the largest combined Earth Day (April 22), Endangered Species Day (May 20), and World Ocean Day (June 8) celebration in North America.

AZA is in their fourth year of the Party for the Planet: Spring into Action campaign with support from the Disney Conservation Fund. This campaign utilizes AZA-accredited zoos and aquariums to "Spring into Action" by providing volunteer and conservation action opportunities that focus on creating healthy habitats to improve our planet.

"AZA-accredited facilities are working to help save species worldwide, and inspire the next generation of conservationists to action," Dan Ashe, President and CEO of AZA explained, "We are so grateful to the continued

support of the Disney Conservation Fund, which helps AZA members make an impact on their communities. Congratulations to the recipients!"

AZA awarded Party for the Planet Spring into Action grants totaling \$100,000 to 11 projects led by AZA-accredited facilities. Awarded facilities are Adventure Aquarium, Assiniboine Park Zoo, Bergen County Zoological Park, John Ball Zoological Gardens, the National Mississippi River Museum & Aquarium, OdySea Aquarium, Philadelphia Zoo, The Phoenix Zoo, Sunset Zoological Park, The Florida Aquarium, and Utah's Hogle Zoo.

<https://tinyurl.com/9yhpe2tj>

Builder Confidence Dipped

While builder demand remained strong, builder sentiment continued to dip in February as the industry grapples with ongoing building material production bottlenecks that are currently raising construction costs and postponing projects.

Builder confidence in the market for newly built single-family homes moved one point lower to 82 in February for the second

consecutive month according to the NAHB/Wells Fargo Housing Market Index (HMI).

Despite the monthly declines, the HMI has posted solid readings at or above the 80-point mark for the last five months.

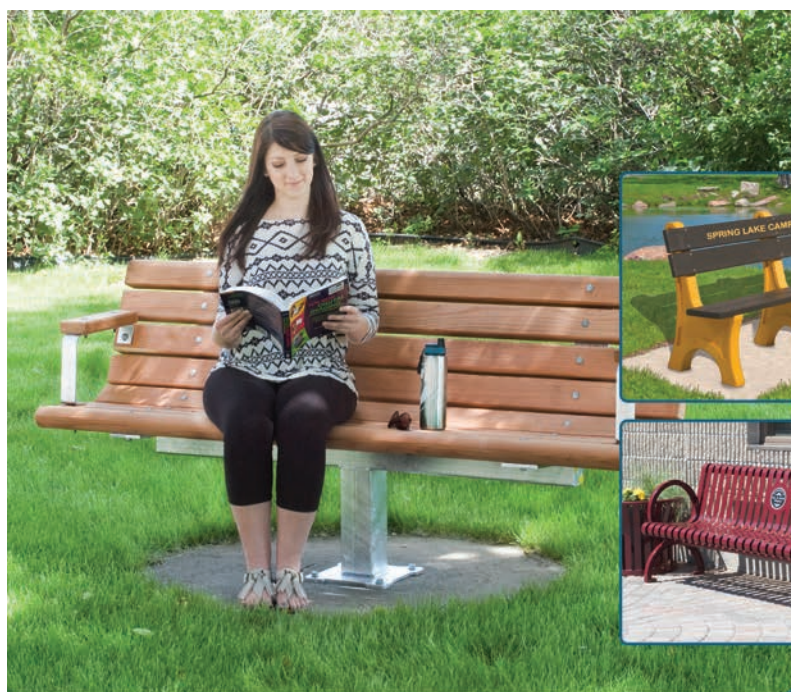
"Production disruptions are so severe that many builders are waiting months to receive cabinets, garage doors, countertops and appliances," NAHB Chairman Jerry Konter explained. The NAHB/Wells Fargo HMI gauges builder perceptions of current single-family home sales and sales expectations for the next six months. The HMI index gauging current sales conditions increased one point to 90 while the gauge measuring sales expectations in the next six months fell

two points to 80. The chart of tracking prospective buyers posted a four-point decline to 65.

<https://tinyurl.com/46vjbp7>



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Information Request # 519

Lumber and Paint Leads Building Material Price Spike

The prices of goods climbed 3.6 percent in January according to the latest Producer Price Index (PPI) report that was released by the Bureau of Labor Statistics.

The index showed a 25.4 percent jump in softwood lumber prices, while indoor and outdoor paint saw a 9 percent price increase. Meanwhile, building material prices increased 20.3 percent year over year that also have risen 28.7 percent since January 2020 while the index has climbed 8.4 percent over the last four months.

The price index of services inputs to residential construction increased 2.9 percent in January following a 1.3 percent increase in December 2021. The index further declined 13.5 percent between June and November 2021.

Seasonally adjusted, the PPI for softwood lumber increased 25.4 percent in January following a 21.3 percent increase in December. Since spiking in September 2021, prices have increased 73.9 percent. According to Random Lengths data, the 'mill price' of framing lumber has more than tripled since August.

Paint on the other hand has increased 9 percent in January for both

exterior and interior architectural coatings according to the PPI.

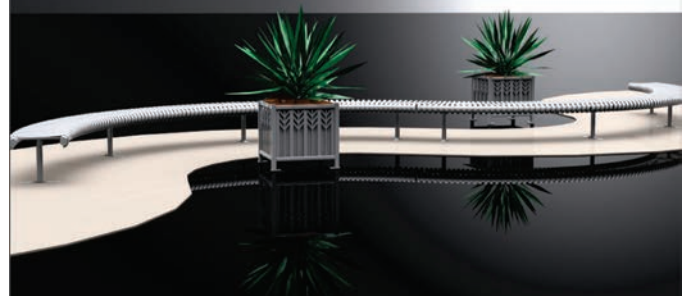
<https://tinyurl.com/2p8vw8s8>

Lumber and paint prices jumped 3.6 percent in January according to a report released by the Bureau of Labor Statistics.



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Information Request # 517

IPEMA's Recommendations on Making Playgrounds Safer

The Voice of Play, an organization connected to the International Play Equipment Manufacturers Association (IPEMA) outlined five things to consider about playground safety. Their list included the following questions: is the playground age appropriate, is the playground surface safe, is the playground equipment safe, is the playground's surrounding environment safe, and is the playground well maintained?

Their first consideration, is the playground age appropriate, focuses on the size of the equipment matching the age group it is designed for. "The intended age group should be somewhat obvious from the design and scale of the equipment, but signs posted in the area – or on the equipment – should also give you some guidance as to their age appropriateness."

IPEMA's recommendations for the surfacing are to use what they consider to be the best and most accessible surfaces which are poured in place (PIP), rubber mulch, and artificial turf. Additionally, they suggest that proper surface fill must be eight to twelve inches deep especially

under swings and slides.

The safety of the equipment is centered around the height, speed, space, guardrails, tripping hazards, and entrapment and strangulations risks.

"It sounds like a lot to think about, but it is actually quite simple: Just look to see if

there is enough room underneath, around and between

playground equipment, make sure there are no protruding objects, moving parts or slippery surfaces, and that higher sections have guardrails installed."

The surrounding environment is the fourth safety consideration. IPEMA points to fencing around playgrounds that may not have particularly safe surroundings. Furthermore, visibility for parents is another major focus in which the association says to be aware of blind spots where visibility of smaller children may be



IPEMA is a non-profit, membership, trade association originally formed to represent and promote an open market for manufacturers of playground equipment and surfacing.

limited or blocked out.

The last consideration is the playgrounds upkeep. "Try to think about the last time you noticed the equipment painted or stained, any missing or broken parts fixed, any loose fill spread or replaced, as well as trash cans placed and regularly emptied. If you think it has been a while, be on the lookout for missing guardrails or steps, protruding nuts or bolts, as well as rusty metal, cracked plastic or splintered wood on the equipment."

<https://tinyurl.com/mrch6xbk>

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Information Request # 528

Final NCMA Meeting Held



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The final NCMA Meeting prior to the merger was held in Kansas from February 28 through March 3.

The National Concrete Masonry Association (NCMA) hosted its final stand-alone Annual Meeting at The Westin Kansas City in Crown Center from February 28 through March 3, 2022.

The meeting was held in conjunction with The Precast Show from March 3rd through 5th. This meeting was co-located with ICPI's Annual Meeting general sessions and committees were available to those members who are unable to attend the in-person meeting. <https://tinyurl.com/229c6y6z>

AASHTO Reps Share Infrastructure Insight at Hearing

Representatives from the American Association of State Highway and Transportation Officials (AASHTO) shared their perspectives with a House of Representatives Committee on Ways and Means subcommittee on the current and future economic impact of federal infrastructure investment on February 15th.

The Subcommittee on Select Revenue Measures hearing dove into the benefits of the \$1.2 trillion Infrastructure Investment and Jobs Act or IIJA that was signed into law in November 2021.

Secretary of the Louisiana Department of Transportation and Development and AASHTO's 2021-2022 president, Shawn Wilson, Ph. D., noted that state DOTs are going through a "readjustment" that may prove critical to fully implement the IIJA.

"Workforce development is an urgent and critical issue for state DOTs," Wilson explained, "While the IIJA provided an increase in funding to state DOTs, the ability to effectively utilize these resources depends upon having the necessary

workforce in place."

Wilson also notes IIJA focuses on two key issues infrastructure resiliency and broadband deployment. Wilson added that the pandemic "has changed our economy" and how we experience everyday things like healthcare and learning.

"Nationwide, even if we may not be the lead state broadband agency, AASHTO members want to be part of the conversation to provide equal access to information and resources now and into the future," Wilson said. <https://tinyurl.com/2jcnm6vr>

Representatives from the American Association of State Highway and Transportation Officials (AASHTO) shared their opinions about the impact of federal infrastructure funds.



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Information Request # 613

Annual Parks and Greenspace Conference Held in Atlanta

Each year, Park Pride, a nonprofit organization in Atlanta that works to improve parks through programs and funding, hosts Parks & Greenspace Conference. This year it is set to be held at the Atlanta Botanical Garden on March 28th.

The theme this year is “The Parks We Need Now” because, according to Park Pride, “no longer are parks nice-to-haves, parks are essential to our everyday quality of life. We turn to parks to exercise, to play, and to safely socialize—parks are as critical to our health and wellness as clean, safe drinking water.”

Hosted by Park Pride, the Parks and Greenspace Conference is set to be held in Atlanta and feature various sessions by professionals.



Speakers will also identify remedies that park systems can take to meet pressing needs like funding strategies and management protocols, parks that contribute to health needs while creating resilient to climate change, and finally parks that unite communities from within and meld cities together.

The event will also include a conference program that is made up of tours and lectures led by experts and will examine the theme. <https://tinyurl.com/4zb5kjin2>

39 States Failed to Submit Pollution Reduction Plans to EPA

A coalition of environmental organizations recently filed a notice of intent (NOI) to sue the Environmental Protection Agency (EPA) due to the agency's failure to enforce the Regional Haze Rule set forth by the Clean Air Act.

The Regional Haze Rule was designed to protect national parks and wilderness from air pollution that reduces visibility. Haze impacts 90 percent of the country's national parks while air pollution from fossil fuels and other sources worsens



As the EPA has failed to submit the requisite Regional Haze state implementation plan by the deadline, 39 states failed to submit their haze plan while 39 organizations are suing the EPA.

community health, drives up healthcare costs, and makes it more difficult for adults to work and kids to learn and play.

39 states failed to submit their most recent haze plan to the EPA by July 31, 2021. Meanwhile, the EPA had until January 31, 2022 to release a formal finding that these states had failed to submit the requisite Regional Haze state implementation plan (SIP) but has not done so.

Meanwhile, 39 organizations joined the notice of intent to sue including 350 New Orleans, Coalition to Protect America's National Parks, and Montana Environmental Information Center to name a few. <https://tinyurl.com/5894zz2e>

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Information Request # 540

New Program Designed to Address Inequities in Landscape Architecture

The American Society of Landscape Architects (ASLA) Fund has launched the Women of Color Licensure Advancement Program that is designed to “support women of color in their pursuit of landscape architecture licensure and increase racial and gender diversity within the profession.”

This program will provide 10 women of color with a two-year experience that includes approximately \$3,500 to cover the cost of the four sections of the Landscape Architectural Registration Exam (LARE), exam preparation classes, resources, and a mentorship from a licensed landscape architect.

The ASLA Women of Color Licensure Advancement Program was initiated through a \$100,000 donation by former ASLA President Wendy Miller, FASLA, and James Barefoot; Marq Truscott, FASLA; Rachel Ragatz Truscott, ASLA; and CLARB.

According to the Council of Landscape Architectural Registration Board (CLARB) Council Record data, shows that women and Black, Indigenous, and People of Color

(BIPOC) are highly underrepresented among the profession: Only 7 percent of landscape architects are non-white and only 30 percent of landscape architects are women.

According to the U.S. Census and ASLA data, approximately 18.5 percent of the U.S. population identifies as Hispanic or Latino, while 6 percent of ASLA members do. Meanwhile, 13.4 percent of the U.S. population identifies as African American, but only 2.14 percent of ASLA members do. 1.3 percent of the U.S. population identifies as American Indian or Alaska Natives, but only 0.45 percent of ASLA members do. And 6.3 percent of the U.S. population identifies as Asian and Pacific Islander while 13.5 percent of ASLA members do.

“The statistics are telling, and it is important we make

major strides to ensure the makeup of the profession closely mirrors the communities they serve,” explained ASLA President Eugenia Martin, FASLA. “We need to address these gaps, and women of color achieving licensure is a part of the solution.”

<https://tinyurl.com/2p9yh579>

The ASLA Fund recently launched their Women of Color Licensure Advancement Program to address landscape architecture inequities by providing 10 women of color a two-year experience that would cover the cost of the four LARE sections and provide mentorship.



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Information Request # 561

APA Releases 2022 Planning Trends Report

The American Planning Association (APA) released their 2022 Trend Report for Planners which outlines nearly 100 trends which are structured into three-time frames titled Act Now, Prepare, and Learn and Watch. Within the time frames each trend falls into one of five categories which are Societal Trends, Technological Trends, Environmental Trends, Economic Trends, and Political Trends each have their own sub-categories. APA suggests using the report as input for long range and current planning processes, to practice strategic foresight, to implement in scenario planning, and to inform future decision making. They also suggest evaluating each trend based on its potential impact and the certainty of the trends influence on the community.

The Act Now timeframe is heavily focused on planning for the climate. Some of the trends in this section include grid-connected solar and wind smart grids, climate migration, climate impacts on local economies, and water scarcity. The



report explains this emphasis in saying, "Given the inevitability of disruptions due to climate change based on current levels of atmospheric warming, adaptation at the local, regional, and national level will be necessary in the coming years." Act Now also looks at trends related to digitalizing which looks at hybrid community engagement, smart cities the digital transformation of cities, and digital vulnerability.

The first major subcategory of the Prepare Now timeframe is titled Artificial Intelligent and Ethics. It contains trends such as AI-based planning tools and upskilling needs and Urban Infrastructure and AI. "Due to the availability of big data and increased computing power, the AI market has grown substantially over the last decade and is expected to grow 20 percent

annually over the next few years. Because AI is already reshaping the local landscape, it is important to understand how planners can use AI equitably and productively." The other subcategories in this timeframe are Automation and Transportation, Data Collection, Use, and Protection, and Private-Sector Community Investment.

The Learn and Watch timeframe looks towards the future with categories of 3D printing, Community Funding for Equity, The Great Resignation and Dislocation of Work, Green Signals, The Metaverse, and Privatization of Outer Space. "While the future is more unknowable than ever before, there are a few signals on the horizon we should learn more about and keep watching, as they give us cues on how the future might unfold. Many of them are linked to technological innovations such as 3D printing, the metaverse, robotics, and the privatization of outer space. Others inspire us to try out new solutions to societal and environmental challenges, such as equitable community funding innovations and emerging green markets."

<https://tinyurl.com/2recbhnv>



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Tuesday - March 29, 2022

10 Essential Lessons from the Sustainable SITES Initiative

by Jodie Cook

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Thursday - March 31, 2022

Solar Power and Landscape Irrigation

by Mark Pedicone

CEUs/PDHs: 1 Credit - APLD, IA, LA CES/HSW, PGMS, NALP

Tuesday - April 5, 2022

Designing and living with systems in residential landscape design + construction

by Steve Blaes

CEUs/PDHs: 1 Credit - APLD, IA, LA CES/HSW, NALP, PGMS, QWEL

Thursday - April 7, 2022

Using Primeval Plants to Represent the Past in Modern Landscapes

by Jeffrey Benca, Ph.D.

CEUs/PDHs: 1 Credit - APLD, LA CES/HSW, NALP, PGMS, QWEL

Tuesday - April 19, 2022

The Pains of Growing a Small Business; Navigating Through Change

by Salvador Hernandez Jr.

CEUs/PDHs: 1 Credit - APLD, LA CES/HSW, NALP, PGMS, QWEL

Friday - April 22, 2022

Successful Landscapes: How good is the State Model Water Efficient Landscape Ordinance?

by Robert Perry, Jr.

CEUs/PDHs: 2* Credits - APLD, IA, LA CES/HSW;
1* Credit - NALP, PGMS, QWEL

Tuesday - April 26, 2022

Ecological Patterns in Landscape Composition

by Mary Sciponi

CEUs/PDHs: 1* Credit - APLD, LA CES/HSW, NALP, PGMS, QWEL



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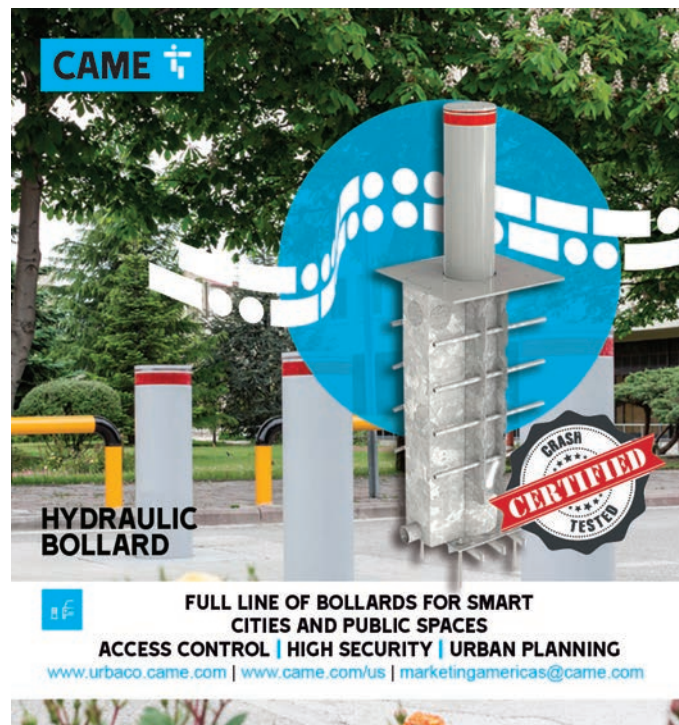
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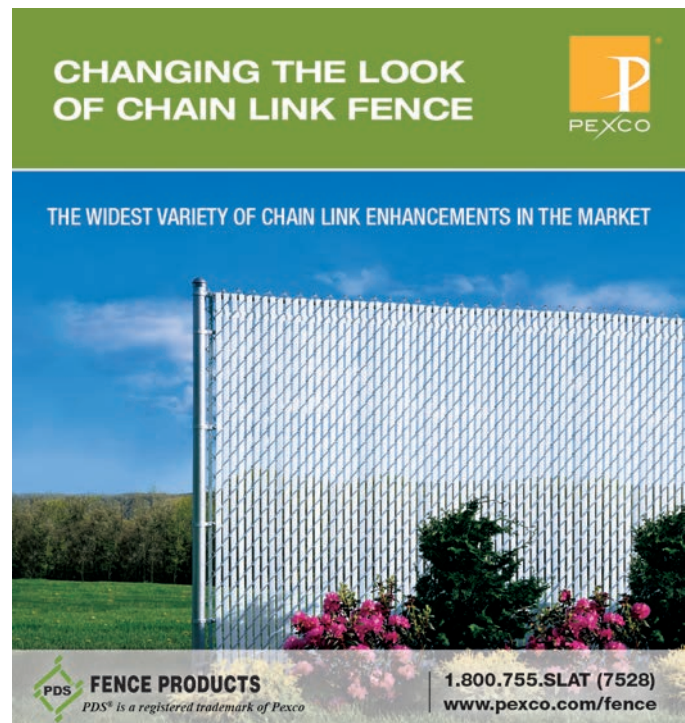
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In the fourth quarter, the U.S. economy grew at a 7 percent annual pace according to data. Americans spent while businesses rebuilt after inventories fell to low levels. Economists polled by the Wall Street Journal forecast gross domestic product (GDP) in the fourth quarter up to 7 percent while in reality the GDP grew slower at 2.3 percent in the third quarter. <https://tinyurl.com/y9udd8de>



Housing Construction Statistics

According to the U.S. Census Bureau and the U.S. Department of Housing and Urban Development, new residential construction statistics for January 2022 show 1,899,000 new building permits or a 0.8 percent uptick from January 2021, 1,638,000 housing stats, and 1,246,000 housing completions. While the pandemic increased demand, housing demand has shifted from needing more single-family homes to multifamily properties. <https://tinyurl.com/2p87ntbp>



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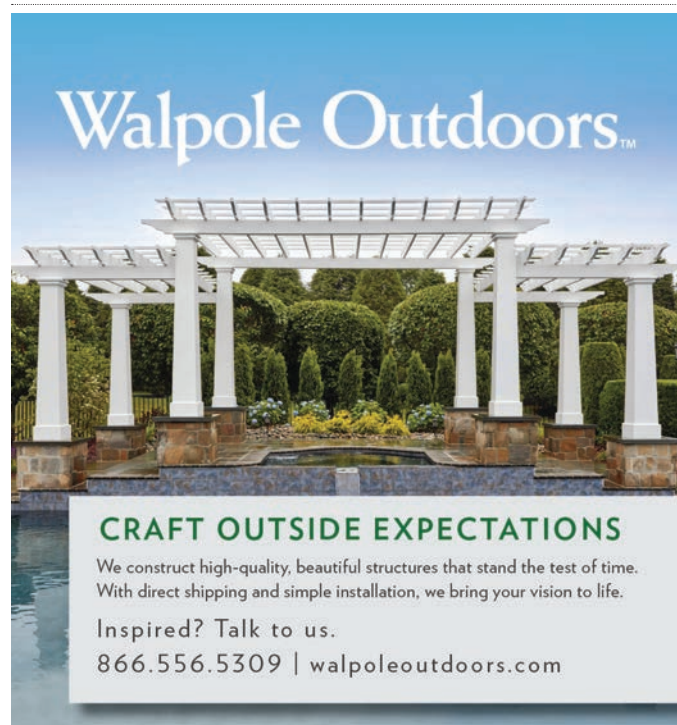
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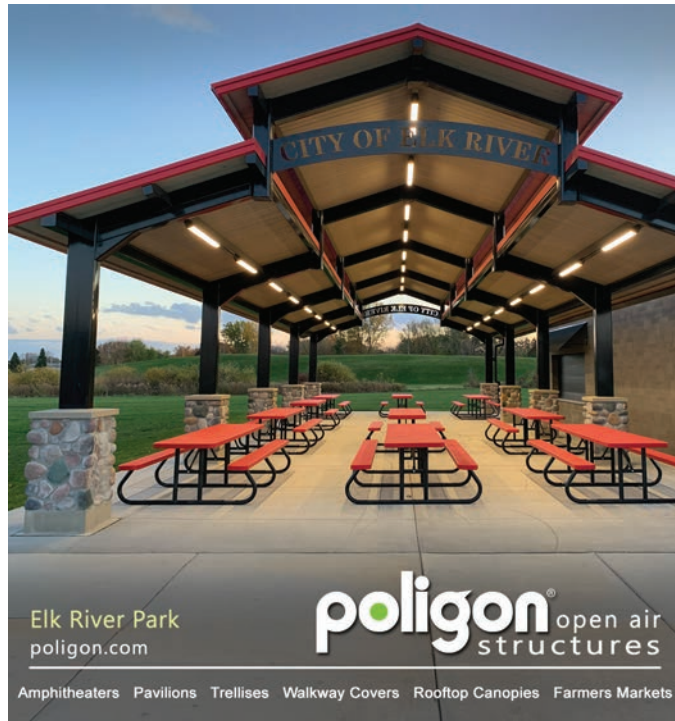
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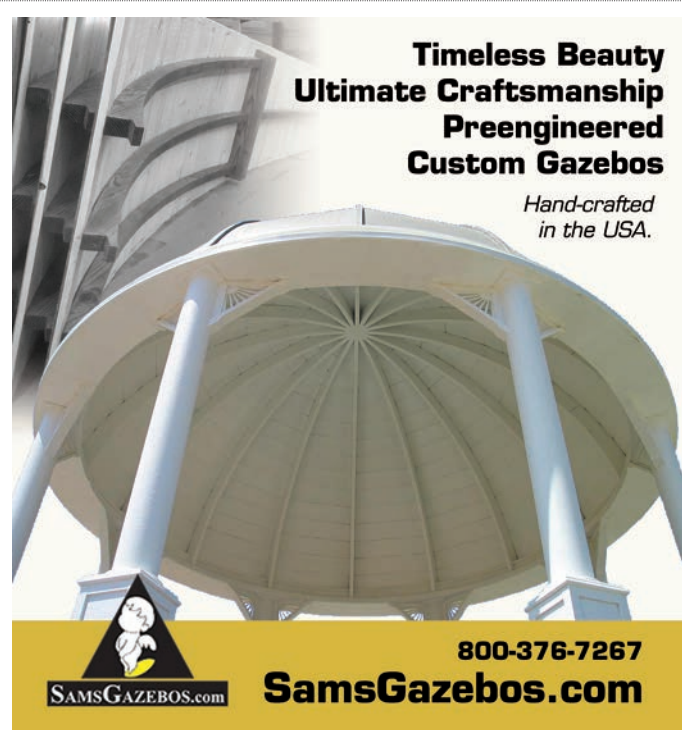
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548	Aurorallight, Inc.	aurorallight.com	099
244	Aurorallight, Inc.	aurorallight.com	124
214	Best Pro Lighting	bestprolighting.com	124
249	NewLite Specialty Products	newlited.com	124
612	PureEdge Lighting	pureedge-lighting.com	043
280	The LED Company, Inc.	ledcohome.com	123
194	2335 SOLAR STREET/AREA LIGHTING HAPCO Pole Products	hapco.com	123
547	2307 SPOT LIGHTS Aurorallight, Inc.	aurorallight.com	067
548	Aurorallight, Inc.	aurorallight.com	099
244	Aurorallight, Inc.	aurorallight.com	124
156	Garden Light Inc.	gardenlighted.com	124
114	Targetti USA	targettiusa.com	124
280	The LED Company, Inc.	ledcohome.com	123

Ad#	Advertiser	Website	Pg#
212	2570 TRAFFIC SIGNAGE Innoplast	innoplast.com	105
156	2210 TRANSFORMERS Garden Light Inc	gardenlighted.com	124
547	2559 WATER SAFE LIGHTING Aurorallight, Inc.	aurorallight.com	067
548	Aurorallight, Inc.	aurorallight.com	099
244	Aurorallight, Inc.	aurorallight.com	124
157	Unmei LEDs	unmeileads.com	123
156	2308 WELL LIGHTS Garden Light Inc	gardenlighted.com	124
612	PureEdge Lighting	pureedge-lighting.com	043
157	Unmei LEDs	unmeileads.com	123
OUTDOOR LIVING			
524	2389 ARBORIS/TRELLISES Classic Recreation Systems, Inc.	classicrecreation.com	085
219	Country Casual Teak	countrycasualteak.com	100
172	Coverwork Recreational Architecture	coverwork.com	112
542	Fifthroom.com	fifthroom.com	093
225	Infiniti Canopy, Inc.	infinitycanopy.com	111
189	Infiniti Canopy, Inc.	infinitycanopy.com	111
613	Jakob Rope Systems	jakob-usa.com	093
176	SamsGazebos	samsgazebos.com	112
111	Shade Tree Cool Living, LLC	shadetreecanopies.com	111
144	Shelter Outdoor	shelteroutdoor.com	110
136	Structural Pergola Systems	structuralpergolasystems.com	110
243	Walpole Woodworkers, Inc.	walpoleoutdoors.com	110
201	2297 BARBEQUE GRILLS Kay Park Recreation Corporation	kaypark.com	102
558	R.J. Thomas Mfg. Company, Inc.	rpilotrock.com	088
131	R.J. Thomas Mfg. Company, Inc.	rpilotrock.com	109
190	RH Peterson, Inc.	rhpeterson.com	109
219	2734 CABANA/DAYBED Country Casual Teak	countrycasualteak.com	100
144	Shelter Outdoor	shelteroutdoor.com	110
215	SturDesign	sturdesign.com	110
551	2325 DECKING Archatrak Inc.	archatrak.com	013
193	Archatrak Inc.	archatrak.com	127
171	Bison Innovative Products	bisonip.com	126
541	Wickcraft Company, Inc.	wickcraft.com	099
267	Wickcraft Company, Inc.	wickcraft.com	118
255	American Specialty Glass	americanspecialtyglass.com	127
102	ARCHPOT	archpot.com	109
269	Breck Ironworks	breckironworks.com	109
233	Concrete Creations	concretecreationsla.com	104
127	PoolCorp	poolcorp.com	126
131	R.J. Thomas Mfg. Company, Inc.	rpilotrock.com	109
131	R.H. Thomas Mfg. Company, Inc.	rpilotrock.com	109
190	RH Peterson, Inc.	rhpeterson.com	109
286	Solus Decor	solusdecor.com	109
255	American Specialty Glass	americanspecialtyglass.com	127
233	Concrete Creations	concretecreationsla.com	104
127	PoolCorp	poolcorp.com	126
190	RH Peterson, Inc.	rhpeterson.com	109
286	Solus Decor	solusdecor.com	109
191	2724 OUTDOOR COOLING Atomizing Systems, Inc.	colfog.com	121
189	Infinity Canopy, Inc.	infinitycanopy.com	111
222	Koolfog	koolfog.com	121
119	2585 OUTDOOR KITCHENS Outdoor Shower Co., LLC	outdoorshowerco.com	108
127	PoolCorp	poolcorp.com	126
190	RH Peterson, Inc.	rhpeterson.com	109
190	RH Peterson, Inc.	rhpeterson.com	109
119	2059 OUTDOOR SHOWERS Outdoor Shower Co., LLC	outdoorshowerco.com	108
599	ShowerTower	showertower.com	086
219	2713 PATIO FURNITURE Country Casual Teak	countrycasualteak.com	100
519	Emu Americas LLC	emuamericas.com	084
255	2552 PATIO HEATERS American Specialty Glass	americanspecialtyglass.com	127
524	2305 PERGOLAS Classic Recreation Systems, Inc.	classicrecreation.com	085
172	Coverwork Recreational Architecture	coverwork.com	112
204	Fiberglass Trusses	fiberglasstrusses.com	118
542	Fifthroom.com	fifthroom.com	093
225	Fifthroom.com	fifthroom.com	111
107	ICON Shelter Systems, Inc.	iconshelters.com	111
189	Infiniti Canopy, Inc.	infinitycanopy.com	111
111	Perfection Fence	perfectionfence.com	105
191	Shade Tree Cool Living, LLC	shadetreecanopies.com	111
144	Shelter Outdoor	shelteroutdoor.com	110
136	Structural Pergola Systems	structuralpergolasystems.com	110
215	SturDesign	sturdesign.com	110
154	Sunair Pergolas, Awnings, & Solar Screens	sunairawnings.com	110
243	Walpole Woodworkers, Inc.	walpoleoutdoors.com	110
116	2733 SHED/POOL HOUSE/GARAGE Superior Concrete Products Inc	concreteefence.com	107
285	Superior Concrete Products Inc	concreteefence.com	107
292	Western Wood Structures	westernwoodstructures.com	118
219	2730 TEAK FURNISHINGS Country Casual Teak	countrycasualteak.com	100
PARK & RECREATION			
283	2213 ANIMAL/WASTE CLEAN-UP Barco Products, A Geneva Scientific Company	treetopproducts.com	101
522	DOGIPOT, Inc.	dogipot.com	095
202	DOGIPOT, Inc.	dogipot.com	118
555	Pet Pick-Ups	petpickups.com	075
173	Pet Pick-Ups	petpickups.com	118
209	Pet Waste Eliminator	petwasteeliminator.com	118
204	2104 AWNINGS/CANOPIES Fiberglass Trusses	fiberglasstrusses.com	118
189	Infiniti Canopy, Inc.	infinitycanopy.com	111
550	Shade N Net	shade-n-net.com	025
258	Shade N Net	shade-n-net.com	111
129	Shade Systems, Inc.	shadesystemsinc.com	003
215	SturDesign	sturdesign.com	110
154	Sunair Pergolas, Awnings, & Solar Screens	sunairawnings.com	110
202	2815 BENCHES DOGIPOT, Inc.	dogipot.com	118
537	Emu Americas LLC	emuamericas.com	084
264	Kidstuff Play Systems, LLC	kidstuffplay.com	119
108	Old Town Fiberglass	oldtownfiberglass.com	103
544	Streetlife	streetlife.com/us	102
236	T2 Site Amenities	t2-sa.com	102
106	Tolar Manufacturing Company Inc	tolarmfg.com	102
510	Wausau Tile, Inc.	wausautile.com	096
505	Williams Stone Company	williamsstone.com	125
139	Williams Stone Company	williamsstone.com	125

Ad#	Advertiser	Website	Pg#
2007 BICYCLE RACKS/SECURITY			
270	Americana Outdoors	americana.com	112
512	GameTime	gametime.com	047
213	GameTime	gametime.com	119
272	Ideal Shield	idealsield.com	105
520	Ironsmith, Inc.	ironsmith.cc	093
167	Ironsmith, Inc.	ironsmith.cc	122
201	Kay Park Recreation Corporation	kaypark.com	102
527	Madrax	madrax.com	019
517	Petersen Manufacturing Co., Inc.	petersenmfg.com	089
544	Streetlife	streetlife.com/us	102
230	Streetlife	streetlife.com/us	102
236	T2 Site Amenities	t2-sa.com	102
263	Velodome Shelters	www.handi-hut.com	112
511	Wagner	wagnercompanies.com	021
153	Wagner	wagnercompanies.com	124
510	Wausau Tile, Inc.	wausautile.com	007
2012 BRIDGES, BOARDWALKS			
516	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	041
159	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	119
135	CAME Americas Automation	came.com/us	105
204	Fiberglass Trusses	fiberglasstrusses.com	118
107	ICON Shelter Systems, Inc.	iconshelters.com	111
176	SamsGazebos	samsgazebos.com	112
292	Western Wood Structures	westernwoodstructures.com	118
541	Wickcraft Company, Inc.	wickcraft.com	099
267	Wickcraft Company, Inc.	wickcraft.com	118
2396 CLIMBING SYSTEMS/STRUCTURES			
533	BCI Burke Company	bciburke.com	017
203	BCI Burke Company	bciburke.com	102
516	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	041
159	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	119
531	ID Sculpture	idsculpture.com	077
202	Imagination Playground	imaginationplayground.org	119
221	Incord	incord.com	106
264	Kidstuff Play Systems, LLC	kidstuffplay.com	119
530	Landscape Structures, Inc.	playliss.com	053
199	Landscape Structures, Inc.	playliss.com	111
284	NetPlay USA	netplayusa.com	119
2146 CUSTOM PLAY ENVIRONMENT			
589	Greenfields Outdoor Fitness, Inc.	goutdoorfitness.com	009
282	Imagination Playground	imaginationplayground.org	119
566	Vortex Aquatic Structures Inc.	vortex-intl.com	097
229	Vortex Aquatic Structures Inc.	vortex-intl.com	119
2147 CUSTOM SITE AMENITIES			
235	Carlsbad Manufacturing Corporation/Planters Unlimited	plantersunlimited.com	104
523	DeepStream Designs, Inc.	deepstreamdesign.com	094
2391 DOCK SYSTEMS			
204	Fiberglass Trusses	fiberglasstrusses.com	118
291	Floating Island West	floatingislandwest.com	121
541	Wickcraft Company, Inc.	wickcraft.com	099
267	Wickcraft Company, Inc.	wickcraft.com	118
2099 DOG PARKS			
202	DOGIPOT, Inc.	dogipot.com	118
173	Pet Pick-Ups	petpickups.com	118
209	Pet Waste Eliminator	petwasteeliminator.com	118
567	Zeager Bros.	zeager.com	090
151	Zeager Bros.	zeager.com	120
173	Pet Pick-Ups	petpickups.com	118
2026 DRINKING FOUNTAINS			
167	Ironsmith, Inc.	ironsmith.cc	122
201	Kay Park Recreation Corporation	kaypark.com	102
517	Petersen Manufacturing Co., Inc.	petersenmfg.com	089
511	Petersen Manufacturing Co., Inc.	petersenmfg.com	103
509	ShowerTower	showertower.com	086
2395 FITNESS TRAILS / EXERCISE STATIONS			
512	GameTime	gametime.com	047
213	GameTime	gametime.com	119
589	Greenfields Outdoor Fitness, Inc.	goutdoorfitness.com	009
252	PolyPavement	poly-pavement.com	120
165	Robur Designs	roburdesigns.com	127
561	SpectraTurf	spectraturf.com	097
226	SpectraTurf	spectraturf.com	120
541	Wickcraft Company, Inc.	wickcraft.com	099
267	Wickcraft Company, Inc.	wickcraft.com	118
567	Zeager Bros.	zeager.com	090
151	Zeager Bros.	zeager.com	120
2041 GAZEBOS, PAVILIONS, SHELTERS			
270	Americana Outdoors	americana.com	112
509	Apollo Sunguard	apollosunguard.com	005
150	Apollo Sunguard	apollosunguard.com	111
524	Classic Recreation Systems, Inc.	classicrecreation.com	085
172	Coverwork Recreational Architecture	coverwork.com	112
201	Easi-Set Buildings	easetbuildings.com	112
542	Fifthroom.com	fifthroom.com	093
225	Fifthroom.com	fifthroom.com	111
273	Gothic Arch Greenhouses	gothicarchgreenhouses.com	109
107	ICON Shelter Systems, Inc.	iconshelters.com	111
556	PorterCorp	portercorp.com	049
187	PorterCorp	portercorp.com	112
176	SamsGazebos	samsgazebos.com	112
550	Shade N Net	shade-n-net.com	025
258	Shade N Net	shade-n-net.com	111
502	Shade Systems, Inc.	shadesystemsinc.com	003
129	Shade Systems, Inc.	shadesystemsinc.com	111
131	Shedlet's Cool Living, LLC	shedletscool.com	111
144	Shelter Outdoor	shelteroutdoor.com	110
136	Structural Pergola Systems	structuralpergolasytems.com	110
263	Velodome Shelters	www.handi-hut.com	112
292	Western Wood Structures	westernwoodstructures.com	118
2046 JUNGLE THEMES			
516	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	041
159	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	119
2451 MUSICAL PLAYGROUND EQUIPMENT			
512	Freenotes Harmony Park	freenotes-harmony.com	134
295	Percussion Play Ltd	percussionplay.com	119
2293 PICNIC TABLES			
270	Americana Outdoors	americana.com	112
283	Barco Products, A Geneva Scientific Company	treetopproducts.com	101
202	DOGIPOT, Inc.	dogipot.com	118
537	Enlu Americas, LLC	enluamericas.com	102
201	Kay Park Recreation Corporation	kaypark.com	102
175	mmcite	mmcite.com/us	100
517	Petersen Manufacturing Co., Inc.	petersenmfg.com	089
164	Petersen Manufacturing Co., Inc.	petersenmfg.com	103
558	R.J. Thomas Mfg. Company, Inc.	pillotrock.com	088
131	R.J. Thomas Mfg. Company, Inc.	pillotrock.com	101
522	Sitcraft	site-craft.com	002
192	Thomas Steele	thomas-steele.com	100
106	Tolar Manufacturing Company Inc	tolarlarmfg.com	102
2062 PLAY STRUCTURES			
509	Apollo Sunguard	apollosunguard.com	005
150	Apollo Sunguard	apollosunguard.com	111
555	Aquatrix by Landscape Structures	aquatrix.playliss.com	055
203	BCI Burke Company	bciburke.com	017
516	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	041
159	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	119
512	GameTime	gametime.com	047
589	Greenfields Outdoor Fitness, Inc.	goutdoorfitness.com	009
531	ID Sculpture	idsculpture.com	077
282	Imagination Playground	imaginationplayground.org	119
221	Incord	incord.com	106
264	Kidstuff Play Systems, LLC	kidstuffplay.com	119
530	Landscape Structures, Inc.	playliss.com	053
199	Landscape Structures, Inc.	playliss.com	111
284	NetPlay USA	netplayusa.com	119
502	Shade Systems, Inc.	shadesystemsinc.com	003
129	Shade Systems, Inc.	shadesystemsinc.com	111
567	Water Odyssey	waterodyssey.com	015
522	Zeager Bros.	zeager.com	090

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151	Zeager Bros.	zeager.com	120	252	PolyPavement	polypavement.com	127	124	Live Earth Products, Inc.	liveearth.com	131
184	Easi-Set Buildings	easissetbuildings.com	112	2461	PAVER DESIGNS & ARTWORK	vermontquarries.com	127	117	Sustane Natural Fertilizer, Inc.	sustane.com	131
533	BCI Burke Company	bciburke.com	017	160	Vermont Quarries Corp.	vermontquarries.com	127	2048	LANDSCAPE FABRIC	centuryrootbarrier.com	130
203	BCI Burke Company	bciburke.com	012	583	Endicott Clay	endicott.com	011	277	DeWitt Company, Inc.	dewittcompany.com	131
530	Landscape Structures, Inc.	playlsi.com	053	217	Endicott Clay	endicott.com	125	616	My Bark Company	mybark.net	092
199	Landscape Structures, Inc.	playlsi.com	111	166	Old Carolina Brick Company	handmadebrick.com	125	185	Rubber Designs	rubberdesigns.com	120
270	Americana Outdoors	americana.com	012	163	Savannah Surfaces	savannahstonesource.com	127	151	Zeager Bros.	zeager.com	120
509	Apollo Sunguard	apollosunguard.com	111	2283	PAVERS, MANUFACTURED	archatrak.com	013	2380	PLANT GROWING CONTAINERS (COMMERCIAL)	centuryrootbarrier.com	130
150	Apollo Sunguard	apollosunguard.com	111	193	Archatrak Inc.	archatrak.com	127	500	Spring Meadow Nursery Inc	springmeadownursery.com	081
524	Classic Recreation Systems, Inc.	classicrecreation.com	085	583	Endicott Clay	endicott.com	011	125	Spring Meadow Nursery Inc	springmeadownursery.com	081
172	Coverworx Recreational Architecture	coverworx.com	112	217	Endicott Clay	endicott.com	125	2725	RAISED GARDENS	durablegreenbed.com	104
542	Fifthroom.com	fifthroom.com	093	166	Nicolock Paving Stones	nicolock.com	128	616	My Bark Company	mybark.net	092
512	GameTime	gametime.com	047	174	Old Carolina Brick Company	handmadebrick.com	125	253	Riverside Plastics, Inc.	riverside-plastics.com	104
213	GameTime	gametime.com	119	279	Tile Tech Pavers	tiletechpavers.com	128	255	2509 RECYCLED GLASS MULCH	americanspecialtyglass.com	127
273	Gothic Arch Greenhouses	gothicarchgreenhouses.com	109	195	Unilock	unilock.com	125	121	2070 ROOT BARRIERS	centuryrootbarrier.com	130
189	Infinity Canopy, Inc.	infinitycanopy.com	111	160	Vermont Quarries Corp.	vermontquarries.com	127	268	Villa Root Barriers	villarootbarrier.com	130
264	Kidstuff Playsystems, LLC	kidstuffplaysystems.com	119	510	Wausau Tile, Inc.	wausautile.com	007	121	2073 ROOT PROTECTION CELLS	centuryrootbarrier.com	130
530	Landscape Forms, Inc.	landscapeforms.com	033	505	Williams Stone Company	williamsstone.com	096	232	2604 SOIL AMENDMENTS	www.BeamClay.com	120
199	Landscape Structures, Inc.	playlsi.com	111	254	WunderCovers	wundercovers.com	125	247	JRM Chemical, Inc.	solmoist.com	130
527	Madrax	madrax.com	019	551	Archatrak Inc.	archatrak.com	127	124	Live Earth Products, Inc.	liveearth.com	131
556	PorterCorp	poligon.com	049	193	Archatrak Inc.	archatrak.com	127	196	Turf & Soil Diagnostics	turfdiag.com	131
199	SamsGazebo	samsgazebo.com	112	583	Endicott Clay	endicott.com	011	196	Turf & Soil Diagnostics	turfdiag.com	131
550	Shade N Net	shade-n-net.com	025	217	Endicott Clay	endicott.com	125	105	Tree Stake Solutions	treestake.com	130
258	Shade N Net	shade-n-net.com	111	103	Nicolock Paving Stones	nicolock.com	128	568	Tree Staple, Inc.	treestaple.com	098
502	Shade Systems, Inc.	shadesystemsinc.com	003	166	Old Carolina Brick Company	handmadebrick.com	125	162	Tree Staple, Inc.	treestaple.com	130
129	Shade Systems, Inc.	shadesystemsinc.com	111	557	Presto Geosystems	prestogeosystems.com	091	268	Villa Root Barriers	villarootbarrier.com	130
111	ShadeTree Cool Living, LLC	shadetreecool.com	111	132	Presto Geosystems	prestogeosystems.com	129	105	Tree Stake Solutions	treestake.com	130
144	Shelter Outdoor	shelteroutdoor.com	114	163	Savannah Surfaces	savannahstonesource.com	127	162	Tree Staple, Inc.	treestaple.com	130
136	Structural Pergola Systems	structuralpergolasystems.com	110	195	Unilock	unilock.com	125	259	2711 VERTICAL GARDEN PLANTERS	atlantiscorporation.com.au	128
215	SturDesign	sturdesign.com	110	505	Williams Stone Company	williamsstone.com	096	117	2202 VITAMINS, HORMONES	sustane.com	131
154	Sunair Pergolas, Awnings, & Solar Screens	sunairawnings.com	110	139	Williams Stone Company	williamsstone.com	125	247	JRM Chemical, Inc.	solmoist.com	130
263	Velodome Shelters	www.handi-hut.com	112	2502	POOL COPING	nptpool.com	126	124	Live Earth Products, Inc.	liveearth.com	131
527	Madrax	madrax.com	019	163	Savannah Surfaces	savannahstonesource.com	127	124	Live Earth Products, Inc.	liveearth.com	131
516	Berliner Seilfabrik Play Equipment	berliner-playequipment.com	041	121	Century Products	centuryrootbarrier.com	130	124	Live Earth Products, Inc.	liveearth.com	131
553	Aquatic by Landscape Structures	aquatic.playlsi.com	055	237	Chameleon Ways	chameleonways.com	127	105	Tree Stake Solutions	treestake.com	130
200	Aquatic by Landscape Structures	aquatic.playlsi.com	119	539	Invisible Structures, Inc.	invisiblestructures.com	073	568	Tree Staple, Inc.	treestaple.com	098
566	Vortex Aquatic Structures Inc.	vortex-intl.com	097	210	Invisible Structures, Inc.	invisiblestructures.com	128	162	Tree Staple, Inc.	treestaple.com	130
229	Vortex Aquatic Structures Inc.	vortex-intl.com	015	103	Nicolock Paving Stones	nicolock.com	128	268	Villa Root Barriers	villarootbarrier.com	130
554	Water Odyssey	waterodyssey.com	019	245	Permeable Hardscape North America LLC	phna-usa.com	126	105	Tree Stake Solutions	treestake.com	130
289	The Verdin Company	verdin.com	106	557	Presto Geosystems	prestogeosystems.com	091	162	Tree Staple, Inc.	treestaple.com	130
589	Greenfields Outdoor Fitness, Inc.	gfoutdoorfitness.com	009	132	Presto Geosystems	prestogeosystems.com	129	259	2711 VERTICAL GARDEN PLANTERS	atlantiscorporation.com.au	128
232	Beam Clay	www.BeamClay.com	120	174	Soil Retention Products, Inc.	soilretention.com	128	117	2202 VITAMINS, HORMONES	sustane.com	131
589	Greenfields Outdoor Fitness, Inc.	gfoutdoorfitness.com	009	241	Stevens Corporation	stevenscorp.com	128	247	JRM Chemical, Inc.	solmoist.com	130
232	Beam Clay	www.BeamClay.com	120	195	Unilock	unilock.com	125	124	Live Earth Products, Inc.	liveearth.com	131
130	Synthetic Surfaces, Inc.	nordot.com	120	245	Permeable Hardscape North America LLC	phna-usa.com	126	124	Live Earth Products, Inc.	liveearth.com	131
533	BCI Burke Company	bciburke.com	017	101	Techniseal	techniseal.com	126	124	Live Earth Products, Inc.	liveearth.com	131
203	BCI Burke Company	bciburke.com	102	254	WunderCovers	wundercovers.com	125	124	Live Earth Products, Inc.	liveearth.com	131
232	Beam Clay	www.BeamClay.com	120	137	Stone Strong Systems	stonestrong.com	125	124	Live Earth Products, Inc.	liveearth.com	131
540	Duraplay, Inc.	duraplay.com	095	610	Superior Concrete Products Inc	concretefence.com	060	124	Live Earth Products, Inc.	liveearth.com	131
216	Duraplay, Inc.	duraplay.com	120	218	Superior Concrete Products Inc	concretefence.com	107	124	Live Earth Products, Inc.	liveearth.com	131
264	Kidstuff Playsystems, LLC	kidstuffplaysystems.com	119	561	SpectraTurf	spectraturf.com	097	124	Live Earth Products, Inc.	liveearth.com	131
616	My Bark Company	mybark.net	092	120	SpectraTurf	spectraturf.com	120	124	Live Earth Products, Inc.	liveearth.com	131
185	Rubber Designs	rubberdesigns.com	120	178	Durable GreenBed by Shelterworks Ltd.	durablegreenbed.com	104	124	Live Earth Products, Inc.	liveearth.com	131
561	SpectraTurf	spectraturf.com	097	103	Nicolock Paving Stones	nicolock.com	128	614	High Ridge Farms	highridgefarms.com	097
226	SpectraTurf	spectraturf.com	120	557	Presto Geosystems	prestogeosystems.com	091	500	Spring Meadow Nursery Inc	springmeadownursery.com	081
503	Synthetic Surfaces, Inc.	nordot.com	095	132	Presto Geosystems	prestogeosystems.com	129	125	Spring Meadow Nursery Inc	springmeadownursery.com	081
567	Zeager Bros.	zeager.com	090	174	Savannah Surfaces	savannahstonesource.com	127	614	High Ridge Farms	highridgefarms.com	097
151	Zeager Bros.	zeager.com	120	137	Stone Strong Systems	stonestrong.com	125	582	Delta Bluegrass Company	deltabluegrass.com	051
232	Beam Clay	www.BeamClay.com	120	195	Unilock	unilock.com	125	145	Delta Bluegrass Company	deltabluegrass.com	129
540	Duraplay, Inc.	duraplay.com	095	540	Duraplay, Inc.	duraplay.com	095	123	NewGen Boxwood	newgenboxwood.com	129
216	Duraplay, Inc.	duraplay.com	120	218	Duraplay, Inc.	duraplay.com	120	250	Roundstone Native Seed, LLC	roundstoneseed.com	129
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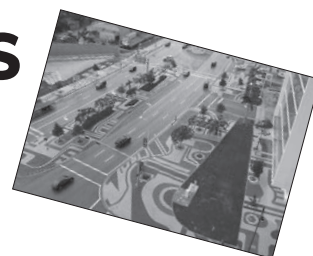
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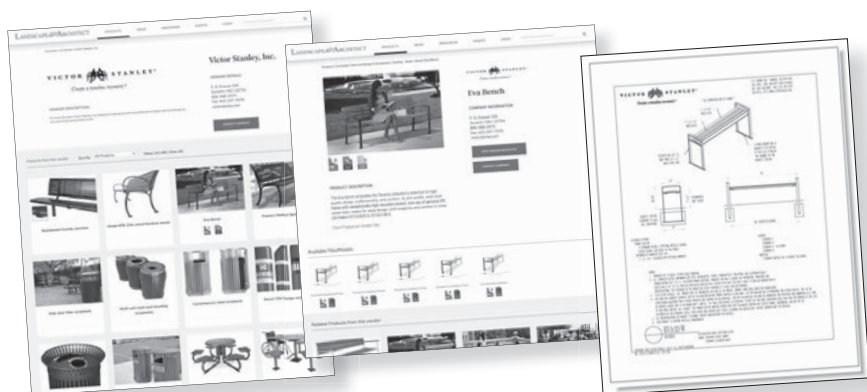
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286	Superior Concrete Products Inc	concretefence.com	106	501	Sitescapes, Inc.	sitescapesonline.com	079	2752	SPAS / PREFAB	diamondspas.com	063
211	Ultra Aluminum Mfg., Inc.	ultrafence.com	106	128	Sitescapes, Inc.	sitescapesonline.com	101	278	SPLASH PADS	vortex-intl.com	097
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155	Merchants Metals	merchantsmetals.com	103	528	Sonoran Stonecrete	sonoranstonecreteaz.com	091	188	Hendrickson Bros	hendricksonbros.com	130
513	Merchants Metals	merchantsmetals.com	103	544	Streetlife	streetlife.com/us	023	188	Hendrickson Bros	hendricksonbros.com	130
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273	2599 GREENHOUSES	gothicarchgreenhouses.com	109	248	2488 GEOSYNTHETIC MATERIALS	prestigeo.com	091	241	Stevens Corporation	stevenscorp.com	128
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260	LockeyUSA	lockeyusa.com	108	610	Superior Concrete Products Inc	concretefence.com	069	259	Atlantis Water Management	atlantiswatermanagement.com.au	128
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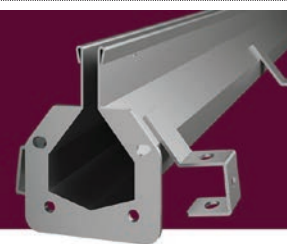
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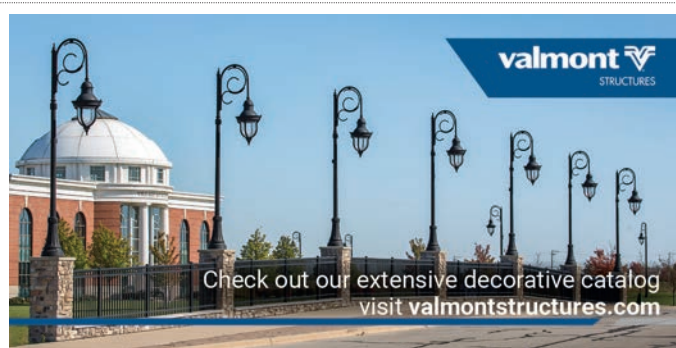
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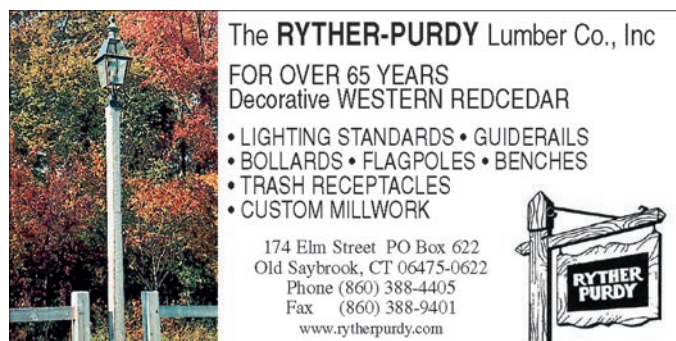
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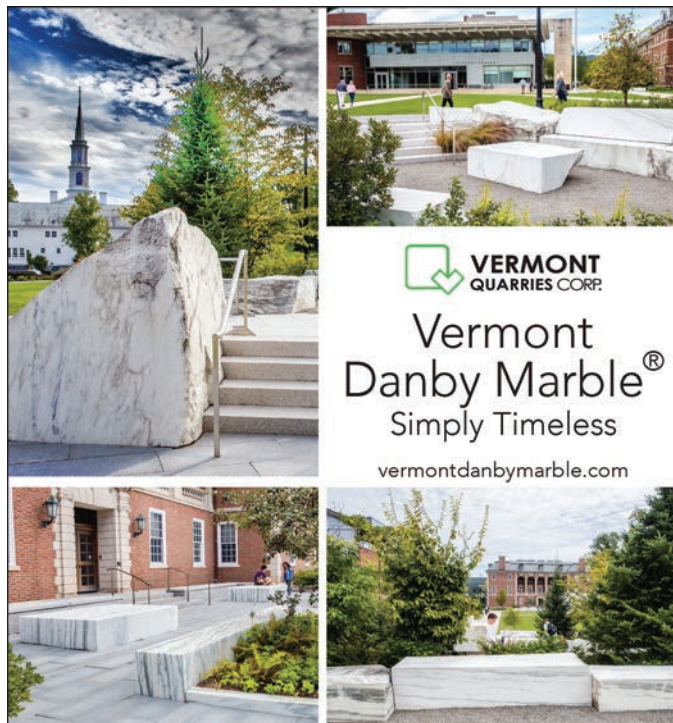
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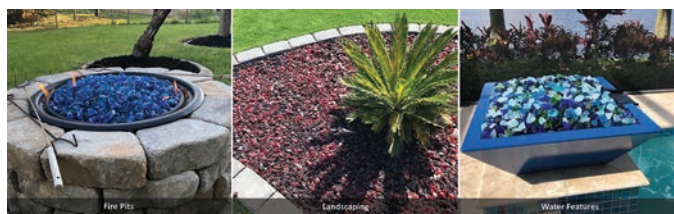
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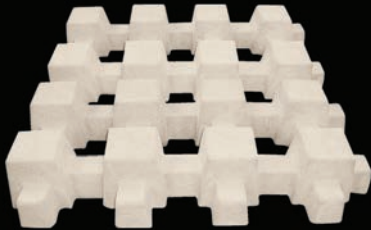
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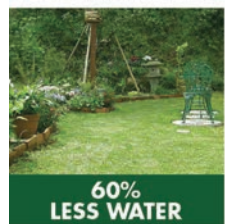
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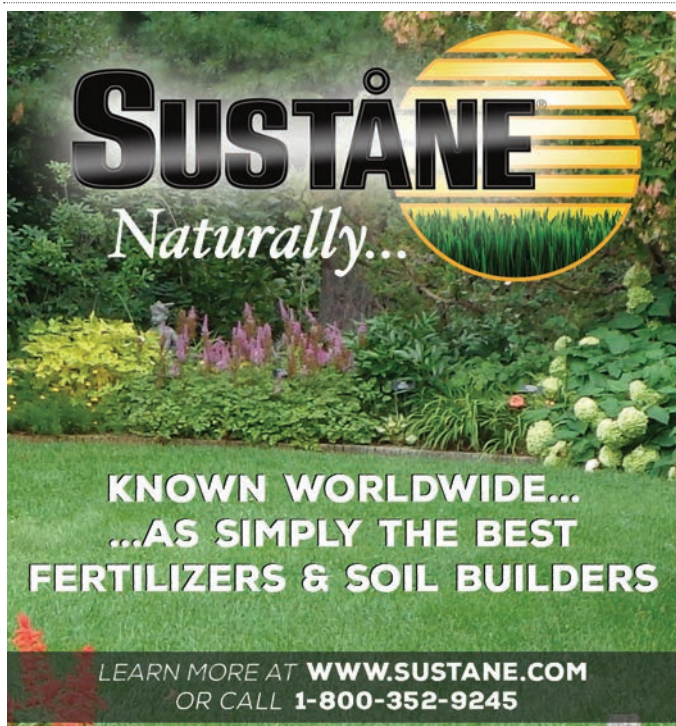
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Information Request # 196

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by Steve Shea, Steve Shea Landscape Design



Left: Volunteers made the Mesa County Central Library Discovery Garden in Grand Junction, Colorado possible. This steel sign was donated by a local metal welding company.

Right: The raised flower beds feature art from local children, compost bins, a vegetable plot where produce is grown, a xeric flower bed, and pollinator-attracting beds that are planted with native species and drought-resistant plants.

In 2018, Robert Breeden, President of Nvision Design Studio, Inc. volunteered his expertise to create the Mesa County Central Library Discovery Garden. Located in downtown Grand Junction, Colorado, the Discovery Garden is a project that aims to address fundamental conservation issues within a high desert environment.

Breeden helped transform a vacant lot into a garden that has promoted outreach to the community, educational opportunities, and permaculture-based garden practices.

In 2018, grants that supported the garden were given by the Mesa Conservation District and the Friends of the Library. Grants were given by AARP, local non-profits, banks, Rotary and Kiwanis clubs, and in 2021, was chosen by Lowe's as one of the 100 Communities they supported.

The garden has evolved over the past four years and now includes a children's area with a Bookworm raised bed planted by children. Additions included compost bins, a vegetable plot, a xeric flower bed, and pollinator-attracting beds that are planted with native species and drought-resistant plants. In 2020, irrigation was upgraded with a solar-powered system that can be controlled over Wi-Fi. Five micro basins

were also installed along the streets abutting the garden. The basins are planted with trees, shrubs, and herbs to demonstrate how to control runoff following storms through infiltration back into the groundwater.

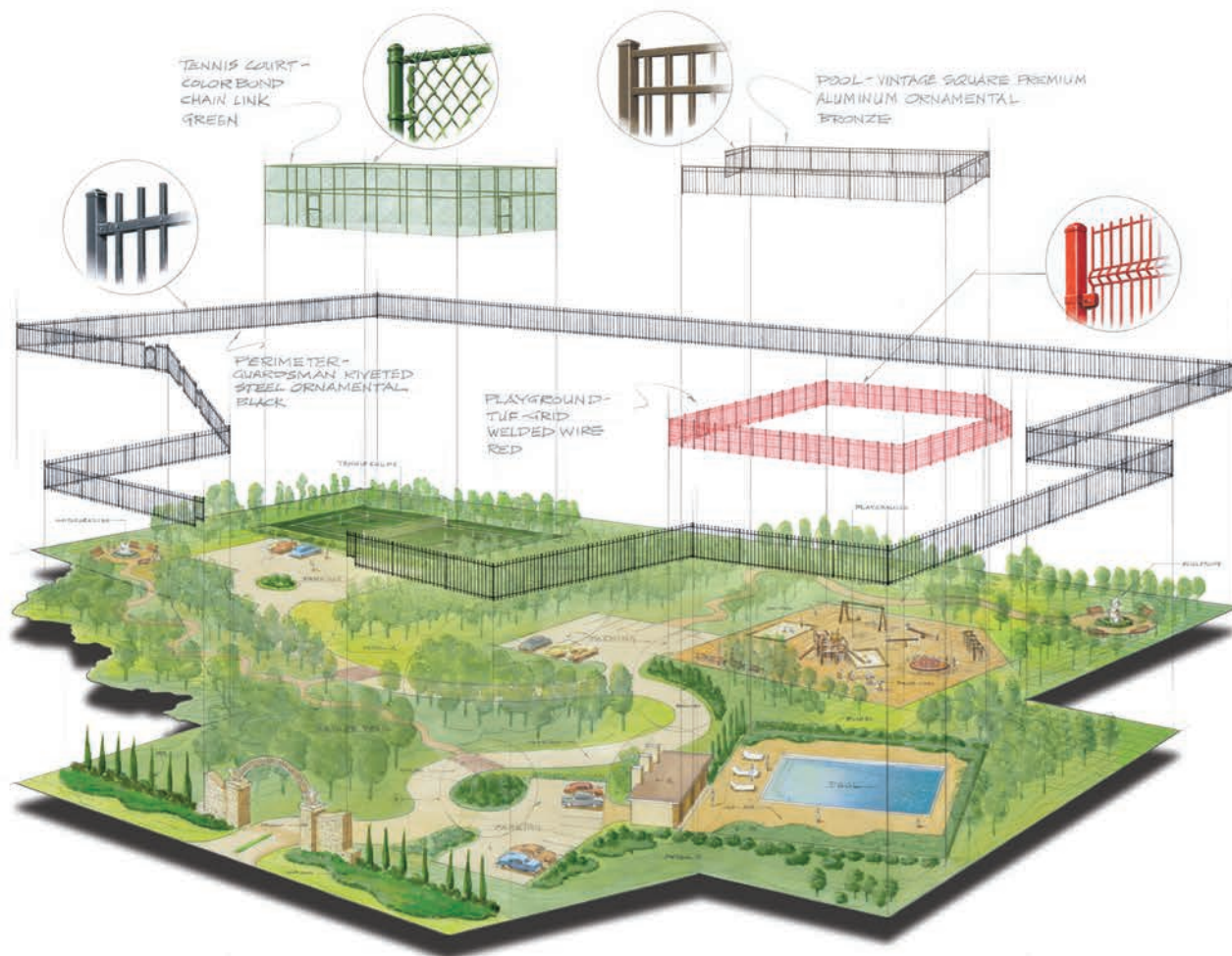
Following COVID-19 restrictions, a small group of volunteers kept the garden alive by planting a hoop house and an annual vegetable plot. In 2021, the garden was expanded to include a wilderness area with trees and shrubs for shade and to create a sound barrier along the busy street at the western edge of the garden. The children's area includes custom benches named "Iris" and "Horace" that were created by a local artist. The programs have educated young people and adults on garden-related topics such as Hügelskultur techniques, raised beds, soil health, heritage vegetables, water conservation, composting, cover-cropping, pollinators, solar energy, and growing in a hoop house. 🌱

Learn more at:

mesacd.com/discovery-garden-partnership
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