

City of Fayetteville Staff Review Form

2022-0597

Legistar File ID

7/19/2022

City Council Meeting Date - Agenda Item Only
N/A for Non-Agenda Item

Byron Humphry

6/29/2022

PARKS & RECREATION (520)

Submitted By

Submitted Date

Division / Department

Action Recommendation:

Resolution to approve the purchase and installation of playground safety surfacing at David Lashley and Hotz Parks from Landscape Structures, Inc pursuant to Sourcewell Cooperative Purchasing Program in the amount of \$101,039.75 with a project contingency of \$10,000.

Budget Impact:

2250.520.9255-5806.00

Parks Development

Account Number

Fund

02013.2201

Parks Playground/Infrastructure Renov.

Project Number

Project Title

Budgeted Item? Yes

Current Budget \$ 235,000.00

Funds Obligated \$ -

Current Balance \$ 235,000.00

Does item have a cost? Yes

Item Cost \$ 101,039.75

Budget Adjustment Attached? No

Budget Adjustment \$ -

Remaining Budget \$ 133,960.25

V20210527

Purchase Order Number: _____

Previous Ordinance or Resolution # _____

Change Order Number: _____

Approval Date: _____

Original Contract Number: _____

Comments:



MEETING OF JULY 19, 2022

TO: Mayor and City Council

THRU: Susan Norton, Chief of Staff
Chris Brown, Public Works Director
Terry Gulley, Assistant Public Works Director

FROM: Byron Humphry, Park Maintenance Superintendent

DATE: June 29, 2022

SUBJECT: Resolution to approve the purchase and installation of playground safety surfacing at David Lashley and Hotz Parks from Landscape Structures, Inc pursuant to Sourcewell Cooperative Purchasing Program in the amount of \$101,039.75 with a project contingency of \$10,000.

RECOMMENDATION:

Resolution to approve the purchase and installation of playground safety surfacing at David Lashley and Hotz Parks from Landscape Structures, Inc pursuant to Sourcewell Cooperative Purchasing Program in the amount of \$101,039.75 with a project contingency of \$10,000.

BACKGROUND:

Proper fall surfacing for playgrounds is required underneath playground equipment to minimize serious injury from falls. The playground at David Lashley was installed in 2006 and the playground at Hotz was installed in 1998. While the play components of each of these playgrounds are still in good condition, the rubber tile fall surfacing at each playground has started to fail and needs to be replaced.

DISCUSSION:

The most cost-effective safety surfacing to install under these existing playgrounds is an artificial turf surface with a pad installed underneath the turf to provide the required fall protection. Landscape Structures, Inc., has provided quotes to install Highland Artificial Turf surfacing. The fall surfacing is uniquely sized for each playground to accommodate the site-specific Critical Fall Height and meets all safety and accessibility standards. The product contains a 15-year limited warranty and is expected to last for the remaining viable life of the playgrounds.

BUDGET/STAFF IMPACT:

The proposal to install new playground safety surfacing at David Lashley and Hotz Parks will cost \$101,039.75 which includes the cost of materials and labor. A project contingency in the

amount of \$10,000 is also requested. Sufficient funding is available in the Parks Playground and Infrastructure Renovation Project utilizing Parks Development Funds (HMR).

Attachments:

Landscape Structure, Inc Proposal

AL	\$	101,039.75
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DAVID LASHLEY PARK
4640 Copper Creek Dr, Fayetteville, AR 72764

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

ENCLOSED YOU'LL FIND INFORMATION REGARDING REPLACING YOUR EXISTING PLAYGROUND
SURFACING PRODUCT USING ARTIFICIAL TURF ALONG WITH THE ENCLOSED PLAY PAD SPECIFICATIONS.

DAVID LASHLEY PARK
4640 Copper Creek Dr, Fayetteville, AR 72764

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

Site



Turf Spec

HIGHLAND

PRODUCT SPECIFICATIONS



CHARACTERISTICS	SPECIFICATIONS
Grass Fibers:	W-Blade in Field/Olive, Diamond Blade in Field/Lime, with tan/green Thatch
Grass Yarn Denier:	14,400 total
Pile Height:	1 1/2" tall
Grass Yarn Face Weight:	48 oz/sy
Tufting Gauge:	3/8 inch
Processing:	USA
Primary Backing:	UV stabilized, multi-layer woven polypropylene – grab tear strength guaranteed!*
Reinforcement Coating:	20 oz/sy of high-grade polyurethane
Drainage Rates:	40 inches per hour – guaranteed!*
Melting Point:	Over 220°F – guaranteed!*
Water, Heat And Frost Resistant:	Yes – guaranteed!*
Standard Roll Size:	15 feet wide by 100 feet long
Recommended Infill:	Approximately 2 pounds per square foot for landscaping use

Recommended Applications:	Moderate /High Traffic, Playgrounds, Pets, Commercial
Colors:	Four primary colors for a natural blend: 2 W-Blade in Field/Olive 2 Diamond Blade in Lime/Hunter 2 Thatch yarn – Fresh Green and Tan
Warranty:	Industry leading, 15 Year Limited Manufacturer's Warranty - guaranteed workmanship, UV stability, water/heat/frost resistance, grab-tear strength, drainage, grass yarn melt points and chemical and environmental regulations.*
Environmental:	Meets EN71-3 (European Toy Standard) and EPA/ RCRA regulations for toxic waste and heavy-metals - guaranteed!*

15 Year Limited Warranty

Pad Spec

polygreen **PLAY** | 2 1/4"



Physical Properties

Polygreen Play consists of thermal bonded (closed-celled) cross-linked Polyethylene foam (PEX). This foam comes from production residues and contains no contaminants.


Polygreen Play is tested based on microbiological resistance to weathering, oxidation, acids & bases. The estimated lifespan of PEX is 100 years minimum.

Technical Specifications

Physical		
Thickness at 2 kPa (0.3 psi) load	2.25 in	Tolerance +/- 1/4"
Mass per unit area	9 lb/ft²	

Drainage and Isolation		
Water Permeability	619/gal/min/ft²	ASTM F1551
Thermal conductivity (Δ10)	03 BTU/hr/ft²/°F	ASTM C 177
Thermal resistance (R-value)	6473 hr/ft²/°F/BTU	ASTM C 177

polygreen **PLAY** | 1 1/4"



Physical Properties

Polygreen Play consists of thermal bonded (closed-celled) cross-linked Polyethylene foam (PEX). This foam comes from production residues and contains no contaminants.

Polygreen Play is tested based on microbiological resistance to weathering, oxidation, acids & bases. The predicted durability of PEX is 100 years minimum.

Technical Specifications

Physical		
Thickness at 2 kPa (0.3 psi) load	1.46 in	
Mass per unit area	6.68 lb/ft²	

Performance		
Critical Fall Height (Head Injury Criterion – 1000)	4.27 ft	ASTM F 1292

Drainage and Isolation		
Thermal conductivity (Δ10)	03 BTU/hr/ft²/°F	ASTM C 177
Insulating Thermal resistance (R-value)	4202 hr/ft²/°F/BTU	ASTM C 177



DAVID LASHLEY PARK
4640 Copper Creek Dr, Fayetteville, AR 72764

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

David Lashley Park Turf Install Scopes of Work

1. Remove and haul existing tile while leaving the edge tile
2. Clean and prep existing concrete slab
3. Concrete inspection
4. Install new 2 ¼" and 1 ¼" play pad to meet the appropriate ASTM standards for play areas
5. Install new turf system and secure to existing concrete slab while leaving an exposed edge
6. Provide ADA access to turf system
7. Site clean up and restoration if needed
8. Site inspection with city staff



HOTZ PARK
149 N Palmer Ave, Fayetteville, AR 72701

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

ENCLOSED YOU'LL FIND INFORMATION REGARDING REPLACING YOUR EXISTING PLAYGROUND SURFACING
PRODUCT USING ARTIFICIAL TURF, PLAY PAD SPECIFICATIONS, AND PLAY SURFACE BORDER.

HOTZ PARK
149 N Palmer Ave, Fayetteville, AR 72701

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

Site



HOTZ PARK

149 N Palmer Ave, Fayetteville, AR 72701

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

Turf Spec

HIGHLAND

PRODUCT SPECIFICATIONS

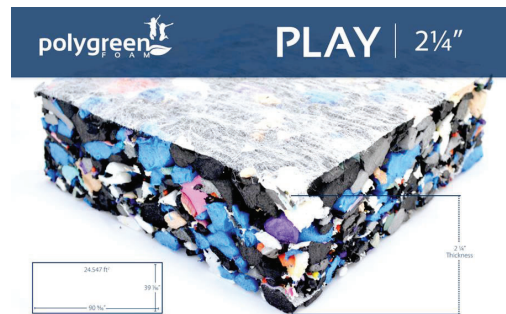


CHARACTERISTICS	SPECIFICATIONS
Grass Fibers:	W-Blade in Field/Olive, Diamond Blade in Field/Lime, with tan/green Thatch
Grass Yarn Denier:	14,400 total
Pile Height:	1 1/2" tall
Grass Yarn Face Weight:	48 oz/sy
Tufting Gauge:	3/8 inch
Processing:	USA
Primary Backing:	UV stabilized, multi-layer woven polypropylene - grab tear strength guaranteed!*
Reinforcement Coating:	20 oz/sy of high-grade polyurethane
Drainage Rates:	40 inches per hour - guaranteed!*
Melting Point:	Over 220 °F - guaranteed!*
Water, Heat And Frost Resistant:	Yes - guaranteed!*
Standard Roll Size:	15 feet wide by 100 feet long
Recommended Infill:	Approximately 2 pounds per square foot for landscaping use

Recommended Applications:	Moderate /High Traffic, Playgrounds, Pets, Commercial
Colors:	Four primary colors for a natural blend: 2 W-Blade in Field/Olive 2 Diamond Blade in Lime/Hunter 2 Thatch yarn - Fresh Green and Tan
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Pad Spec



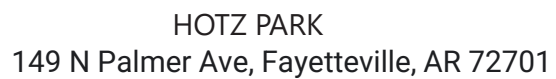
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Technical Specifications

Physical		
Thickness at 2 kPa (0.3 psi) load	2.25 in	Tolerance +/- 1/4"
Mass per unit area	9 lb/ft ²	
Drainage and Isolation		
Water Permeability	619 gal/min/ft ²	ASTM F1551
Thermal conductivity [k10]	.03 BTU/hr-ft ²	ASTM C 177
Thermal resistance [R-value]	6473 hr-ft ² /BTU	ASTM C 177



 = Concrete Ribbon Curb





HOTZ PARK
149 N Palmer Ave, Fayetteville, AR 72701

FAYETTEVILLE PARK RESURFACING PROJECT
WITH ACS PLAYGROUNDS ADVENTURES INC.

Hotz Park Turf Install Scopes of Work

1. Remove and haul off existing tile
2. Clean and prep existing concrete slab
3. Concrete inspection
4. Install new play surface border concrete ribbon curb
5. Install new 2 ¼" play pad to meet the appropriate ASTM standards for play areas
6. Install new turf system to comply with use zone area guidelines and secure to concrete ribbon curb
7. Debris removal
8. Site inspection with city staff