Chapel Hill Parks & Recreation Splash Pad and Inclusive Playground Study Progress Report

Presentation to Chapel Hill Town Council

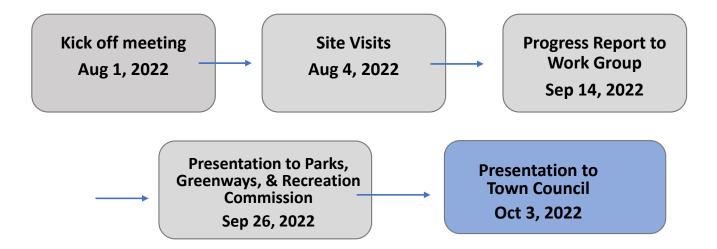
3 October 2022







Timeline



- -Support to continue
- -Consider limiting number of concept plans and costing
- -Initiate Community Input
- -Final Report and Presentations



Project Justification

- Recreation Trends
- 2013 Comprehensive Parks Plan
- Growing Community Interest
 - Receipt of a petition signed by over 820 individuals supporting a splash pad in Chapel Hill
- Town's Goals Including:
 - Connected Community
 - Environmental Stewardship
 - Vibrant and Inclusive Community



Project Criteria

Park location assessment using the following criteria:

- Adequate size
- Infrastructure
 - Availability of utilities
 - Availability of parking
 - Restrooms
 - Shelter
- Equity considerations such as:
 - Access and connectivity (e.g., public transit, pedestrian, bicycle)
 - · Facilities that are at the end of their life span, or that have not seen significant improvements
 - Socioeconomic data
- Proximity to other parks and Town amenities (shopping, restaurants, etc.)
- Site impacts (utility relocation, environmental, cultural and natural resources, etc.)
- •Evaluation of splash pad system types and pros and cons of recirculated water system versus a flow-through system
- •Estimated design and construction, start-up, operations, and maintenance costs
- Community input options / processes
- •Identification of most feasible build-out/phases of development





Site Visits

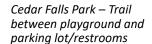
- 6 parks
 - Cedar Falls Park
 - Community Center Park
 - Hargraves Park
 - Homestead Park
 - Southern Community Park
 - Umstead Park
- 2 public housing communities
 - Eastwood
 - Oakwood
- Input from Town staff

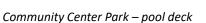


Homestead Park –
Open space beside pool building



Eastwood Public Housing – Suitable space on Eastwood frontage for pocket park splash facility





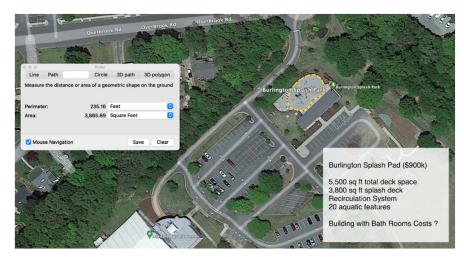




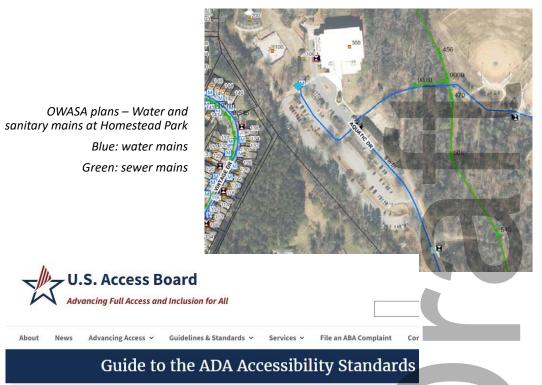
Splash Pad and Inclusive Playground Study

Research

- Investigation of existing splash pad facilities in other municipalities – Burlington, Mebane, Pittsboro, Davie County, Fayetteville
- Code research
- OWASA information on sewer and water availability
- Zoning/Entitlement restrictions in place i.e., existing Special Use Permits on parcels
- Public transit access
- # households within a quarter mile/walking distance



Burlington splash pad facility



Splash Pad and Inclusive Playground Study

Code Research

A Summary of Accessibility Guidelines for Play Areas

Americans with Disabilities Act

Organizing Findings

Sites in Consideration

- · Collected and organized basic data
 - Location and Access (walk, bike, public transit)
 - Existing facilities
 - Existing utilities
 - Staff comments
 - Map suitable areas within each park or housing development
- Analyze suitability of each site for various facility improvements
 - Quick list pros and cons for each facility
 large splash pad, pocket park splash pad, and inclusive playground

FACILITY CONDITION ASSESSMENT CHECKLIST COMMUNITY CENTER PARK 120 South Estes Drive

BASIC SITE INFO	RMATION								
Park Size	12.06 acres								
Public Access	S Estes Drive, Plant Roa	ad, pedestri	anaccess	from Bolin C	reek greenway trail				
	and from battle creek r	nature trail							
Public Transit:	4 routes with nearby st	tops							
PARKING		COMMEN	TS		STAFF COMMENTS				
# spaces	66	paved			-parking is often insufficient				
ADA spaces	3	appear co	mpliant						
Expansion	not easily accessible	new lot co	uld be ad	ded from Pla	ant Rd				
OTHER FACILITI	ES								
Playground		not inclus	ve or AD	A compliant	_				
Trailhead		200			10 10 10 10 10 10 10 10 10 10 10 10 10 1				
Bathrooms	inside com	munty b	uilding	insufficient facilities					
		single sta	Il restroo	ms (2)					
Shelter		gazebo in	_	len					
Change space		in pool wi	ng						
Gym		inside com	munty b	uilding					
Climbing wall		inside gym	1						
Pool		limited ho	urs		insufficient staffing				
Basketball, bocc	e ball	outdoor							
UTILITIES	111								
Existing water?	yes			st Water	8", from Plant Rd				
Is there adequar			Meter						
Existing sanitary	0.775 en e			o Estes					
_	nitigation facility		No						
	for splash pad equipment	-	No						
FACILITY APPRO		J							
large splash pad									
pro:	space, utilities, access		con:	insufficier	nt bathrooms & parking				
change ways organisms	ex impervious deck ava	ilable							
small splash pad									
pro:	space, utilities, access		con:	insufficier	nt bathrooms & parking				
inclusive playgro									
pro:	public transit		con:	insufficier	nt bathrooms & parking				
staff on site:	Yes								

Summary Chart of Parcel Data

Summary Chart of Farcer Data													
Property	site late	es) out	in Transit, House	olds within	of Service	PlayBou	nd Restron	szak On	Site Pool	Afordall	of Spaces of Spa	nunity stance stance stance stance	
горенц		<u> </u>	7 (.		/ -	_ `	/ (/ -	_ \	7 4. 3	<u> </u>		
Cedar Falls Park	66.6	Y	262	Υ	N	Y	Y	N	180	UNK	N		
Community Center													
Park	12	Υ	486	Υ	Υ	Υ	Υ	Y	66	Υ	N		
Hargraves Park	6.8	Υ	1285	Υ	Υ	Y	Y	Y	60	Y	Y		
Homestead Park	43.6	Υ	582	Υ	Υ	Υ	Υ	Υ	288	Υ	N		
Southern													
Community Park	71	Υ	340	Υ	Υ	Υ	Υ	N	157	N	N		
Umstead Park	23.7	Υ	1252	Υ	Υ	Υ	Υ	N	42	Υ	Υ		
Eastwood Public													
Housing	5.5	N	299	Υ	Υ	Y	N	N	N	Υ	N		
Oakwood Public Housing	6	Υ	785	Υ	Y	Υ	N	N	N	Υ	N		

Destination Splash Pads

ELEMENTS TO BE INCLUDED IN A DESTINATION SPLASH PAD

- Splash features, in multiple zones to accommodate different ages and abilities
- >5,000 square feet (sf)
- Handicap accessibility
- Restrooms and changing space
- Small protected/built space for water circulation and treatment equipment
- · Parking expansion as needed
- Stormwater mitigation facility (bioretention area or sand filter) for increased impervious on site





Sample layout of destination size splash park

Blue Heron Bay, Michigan



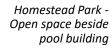
Destination Splash Pads (continued)

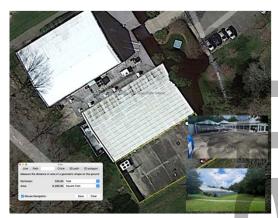
- Which sites could accommodate this facility, looking at these criteria:
 - · Water and sewer availability
 - Site Access
 - Parking
 - Restrooms
 - · Staffing availability
- Costs associated with getting the splash pad installed
 - Design
 - Permitting
 - Building the facility
- What other improvements would be required to make this happen
 - · Parking additions
 - ADA access
 - Restroom improvements
 - Change room facility
 - Stormwater mitigation facility for increased site impervious

Community Center Park – deck beside pool building



Hargraves Park – area overlapping existing wading pool and playgrounds







Pocket Park Splash Pads

ELEMENTS TO BE INCLUDED IN A POCKET PARK SPLASH PAD

- Splash features, 5-10 sprayer features
- < 2000 square feet (sf)
- < 100 gallons per minute (gpm) total design flow
- · Handicap accessibility
- Restrooms
- Small protected/built space for water circulation and treatment equipment
- Stormwater mitigation facility (bioretention area or sand filter) for increased impervious on site



Splash area – Durham Museum of Life and Science





Sample pocket park splash pad layout

Pocket Park Splash Pads (continued)

- Which sites could accommodate this facility, looking at these criteria:
 - Water and sewer availability for a flow through system
 - Site access
 - Parking
 - Restrooms
 - Coexisting facilities which would benefit from a small splash area
- Costs associated with getting the splash pad installed
 - Design
 - Permitting
 - · Building the facility
- What other improvements would be required to make this happen
 - Parking additions
 - ADA access
 - Restroom improvements
 - Stormwater mitigation for increased site impervious

RECOMMENDED LOCATIONS:



Cedar Falls Park

Small splash facility / misters near fields that could be used by athletes and spectators as well as children

Pocket Park Splash Pads (continued)



Umstead Park
Near the existing accessible
playground and close to the
restrooms



Southern Community Park
Within the existing fenced
playground area

RECOMMENDED LOCATIONS:

Community Center Park

Adjacent to the existing playground area



Pocket Park Splash Pads (continued)



Homestead Park
Between the existing
playground area and the
restroom/shelter building

RECOMMENDED LOCATIONS:

Eastwood Public Housing
Either along the Eastwood
frontage where there is open
space protected from the street,
or replacing a basketball half
court





Hargraves Park
Between the existing pool and playground facilities

Accessible Inclusive Playgrounds

Accessible - Meets ADA accessibility code for users with physical disabilities.

Inclusive – Allow children of all abilities to play with their peers regardless of physical or social or cognitive needs.

- Which sites could accommodate a playground facility
- Which sites could accommodate small improvements to make the playground more inclusive and more accessible
- Costs associated with getting the playground installed
 - Design
 - Permitting
 - Building the facility
- What other improvements would be required to make this happen
 - Parking additions
 - ADA access
 - **Restroom improvements**

New Playground

Community Center Park Hargraves Park **Homestead Park**



Older playground at Community Center Park

Adapt Existing Playground

Cedar Falls Park Southern Community Park **Umstead Park**

accessible playground at **Umstead Park**

Existina

Combination Splash Pad / Playground

 Which sites could accommodate a playground facility looking at parking and restroom facilities, as well as available accessible open space outside of RCD zones

Adapt Existing Playground / Add Splash Elements

These three parks have a good basic accessible playground. They could be turned into inclusive playgrounds with splash features with the addition of new elements and expansion of playground area.

- Cedar Falls Park
- Southern Community Park
- Umstead Park

Park and splash pad Barnwell, SC

New Playground with Pocket Park Sized Splash Facility

In all cases the existing playground equipment is nearing the end of useful life, and replacement inclusive playground could include a splash element.

- Community Center Park
- Hargraves Park
- Homestead Park



Costs

Sample layout, destination splash facility

DESTINATION SPLASH PAD 2,500 sf - 5,500 sf+

\$ 700,000-1,200,000

plus site preparation (grading, vegetation removal,) and improvements such as parking, accessible walkways, improved restrooms

POCKET PARK SPLASH PAD under 2,000 sf

\$ 200,000-400,000

plus site preparation (grading, vegetation removal) and improvements such as accessible walkways and restroom improvements

ACCESSIBLE INCLUSIVE PLAYGROUND

\$325,000-450,000

plus site preparation (grading, vegetation removal) and site improvements such as accessible walkways and restroom improvements

ADAPT AN EXISTING PLAYGROUND TO BE MORE INCLUSIVE AND ACCESSIBLE

\$50,000

Includes addition of adapted swings, separate play elements, rework of ramp access locations and additional play structure access



Splash Pad and Inclusive Playground Study

Landscape Structures,

adaptive swing option

Costs



Annie Jones Park, Cary Accessible restroom building



Bioretention facility NC DENR manual

NEW ACCESSIBLE RESTROOM FACILITY

\$ 400,000-500,000 assumes existing water and sewer services

NEW CHANGE ROOM FACILITY +/- 1400 sf

\$ 400,000

ACCESSIBLE SIDEWALK CONNECTION

\$ 15,000

EXTENSION OF SANITARY SEWER AT CEDAR FALLS

\$ 310,000

Assumes pump station, force main, and sanitary main extension to existing service on Country Road

BIORETENTION AREA

To treat stormwater from increased impervious and large areas of disturbance

\$ 100,000

Cost Bundle Examples

EXAMPLE 1

DESTINATION SPLASH PAD WITH NEW RESTROOM / CHANGE FACILITIES AND ADDED PARKING AND ACCESS – RECIRCULATING SYSTEM

3,500 sf, fenced, 24+ spray features

Splash Pad: \$ 1,000,000-1,200,000

Restroom/ Changeroom: \$ 600,000

Parking – 20 spaces: \$ 200,000

Accessible Walks: \$ 15,000

Shade and Seating: \$ 105,000

Bioretention: \$ 100,000

TOTAL: \$ 2,020,000-2,220,000

Operating costs: \$ 10,000-12,000 annually for

maintenance, electric, water and sewer

EXAMPLE 2

AVERAGE SIZE DESTINATION SPLASH PAD WITH NEW RESTROOM / CHANGE FACILITIES AND ADDED PARKING AND ACCESS – RECIRCULATION SYSTEM

2,000-4,000 sf facility, 16-24 splash features

Splash Pad: \$ 650,000-750,000

Restroom/Changeroom: \$ 600,000

Parking – 20 spaces: \$ 200,000

Accessible Walks: \$ 15,000

Shade and Seating: \$ 105,000

Bioretention: \$ 100,000

TOTAL: \$ 1,670,000 - 1,770,000

Operating Costs: \$ 7,000-10,000 annually for

maintenance, electric, water and sewer

Cost Bundle Examples

EXAMPLE 3

POCKET PARK SPLASH PAD WITH PEDESTRIAN ACCESS

5-10 spray features, 1,000-2,000 sf Flow-through system

Splash Pad: \$ 170,000-250,000

Dedicated water

and sewer taps: \$ 165,000-185,000

Accessible Walks: \$15,000

Bioretention: \$80,000

TOTAL: \$430,000-530,000

Annual operating expense: \$ 18,000-45,000 for

maintenance, water and sewer costs

EXAMPLE 4

NEW ACCESSIBLE INCLUSIVE PLAYGROUND WITH SMALL SPLASH AREA ELEMENTS

1-3 spray features, with playground

New playground

and surfacing: \$ 325,000 – 450,000

New Restroom: \$ 400,000

Splash elements: \$ 150,000

Dedicated water

and sewer taps: \$ 165,000-185,000 - might not be necessary

Accessible Walks: \$ 15,000

Bioretention: \$ 100,000 .

TOTAL: \$ 1,155,000-1,300,000

Annual operating expense: \$8,000-10,000 for maintenance, water and sewer costs.

Next Steps

COSTS

Playground costs specific to each site

RESEARCH

Further costing or accessory improvements to the splash pads, specific to each site considered

COMMUNITY ENGAGEMENT AND PUBLIC INPUT AFTER COUNCIL MEETING

Promotion of opportunities:

- Door hangers
- Schools, including counselors and PTA
- · Chapel Hill Mothers Club Facebook Group
- Special Olympics Events
- E-News and Text Blasts
- Project webpage
- Signs at Parks and Public Housing Communities

Public meetings scheduled at various locations which could include Hargraves Community Center, Chapel Hill Public Library, Kidzu, etc.

Online survey

CONCEPT PLANS

- Small concept for each park with a more complete cost estimate based on existing conditions
 - -1 destination splash pad
 - -1 new playground
 - -1 or more pocket park splash pads
 - -1 or more adaptive playgrounds

What are we seeking from Council?

FEEDBACK:

Given the information shared, which sites do you feel warrant further analysis?

What are your thoughts on the different types of splash pads and inclusive playground options?

Are there areas of the draft report warranting more research and/or clarity?

SUPPORT:

Recommend to continue with completion of study, to include community engagement

