pittsburgh city planning

SHERADEN PARK MASTER PLAN

March 2020

Submitted to:
City of Pittsburgh
Department of City Planning
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Pittsburgh, PA 15219

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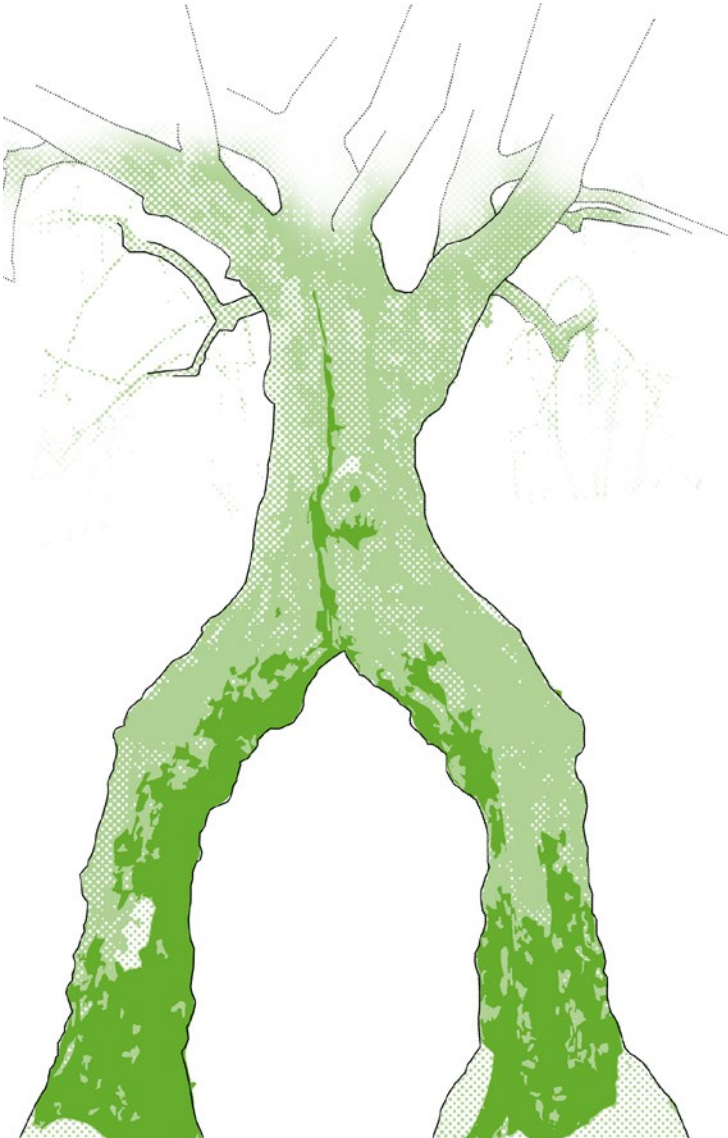

PROJECT TEAM

Department of City Planning:
Martina Battistone, CFM, Senior Environmental Planner, Project Manager
Sophia Robison, Neighborhood Planner
Kara Smith, PLA, Principal Environmental Planner
Andrew Dash, AICP, Acting Director, Assistant Planning Director

Steering Committee: The Steering Committee is a group of stakeholders, internal and external, whose role is to advise the Project Team and consultants throughout the master plan's development. City Planning, City Council, DPW, PWSA, ALCOSAN and PPC are among the delegates whom represent the departments and authorities that have previously, currently or will in the future will work in the park. Resident voices were selected based on their proximity and affiliation to the park – Sheraden, Chartiers, Esplen and McKees Rocks neighborhoods – as well as their roles in the Park or other community groups who serve the area of the park.

Affiliated Organizations & Departments:

Theresa Kail-Smith -City Council Woman, District 2
Kevin Pawlos - Assistant Director, Operating Budget, Mayor's Office
Tom Paulin - Superintendent of Parks, Department of Public Works
Andrea Ketzel - Landscape Architect, Department of Public Works
Joe Fedor - Environment Scientist, ALCOSAN
Jeane Clark - Director of Governmental Affairs, ALCOSAN
Henry-Horn-Pyatt - Small Buissiness & Redevelopment Manager
Ana Flores - Engineer III, PWSA
Susan Rademacher - Parks Curator, Pittsburgh Parks Conservancy

Resident Voices:

Debra Bailey - President, Sheraden Community Council
Lallon Thompson - Resident
Jeb Feldman - Director of Economic Development, McKees Rocks CDC
Taris Vrcek - Director, McKees Rocks CDC
Rick Hildebrand - Sheraden Baseball / Resident
Marianne Muraska - Sheraden Kiwanis Club / Resident
Shawn Smith - Resident
Don Scholz - American Legion / Resident

CONSULTANT TEAM

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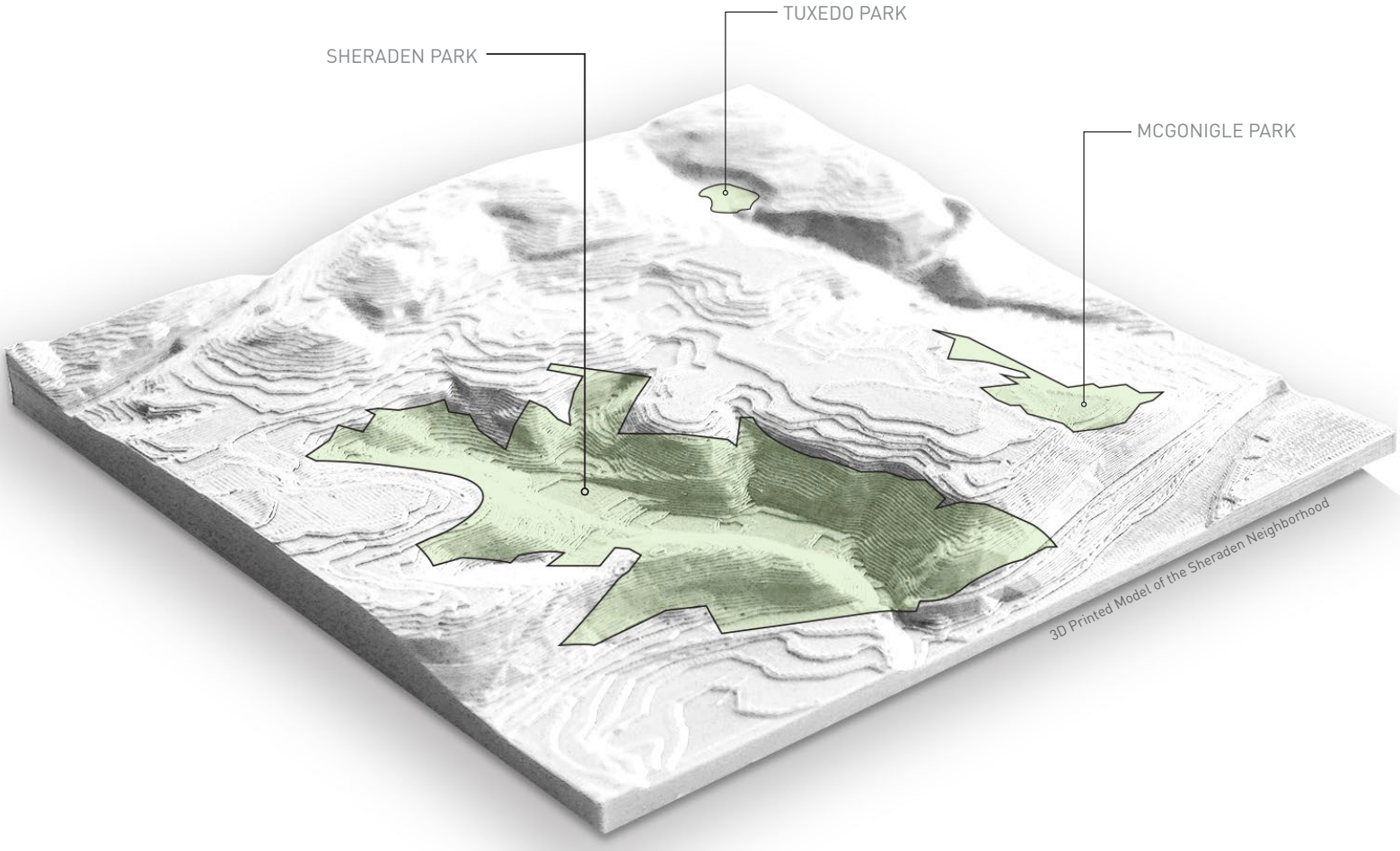

3D Printed Model of the Sheraden Neighborhood

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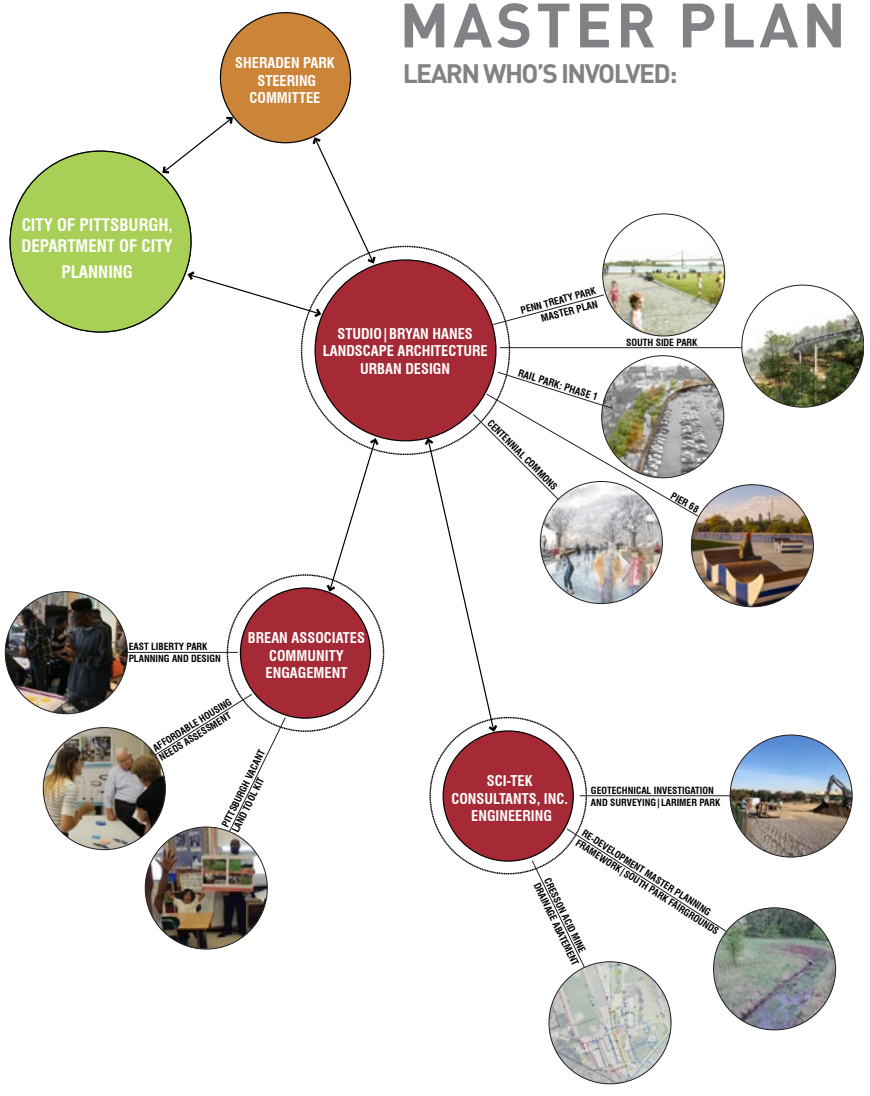
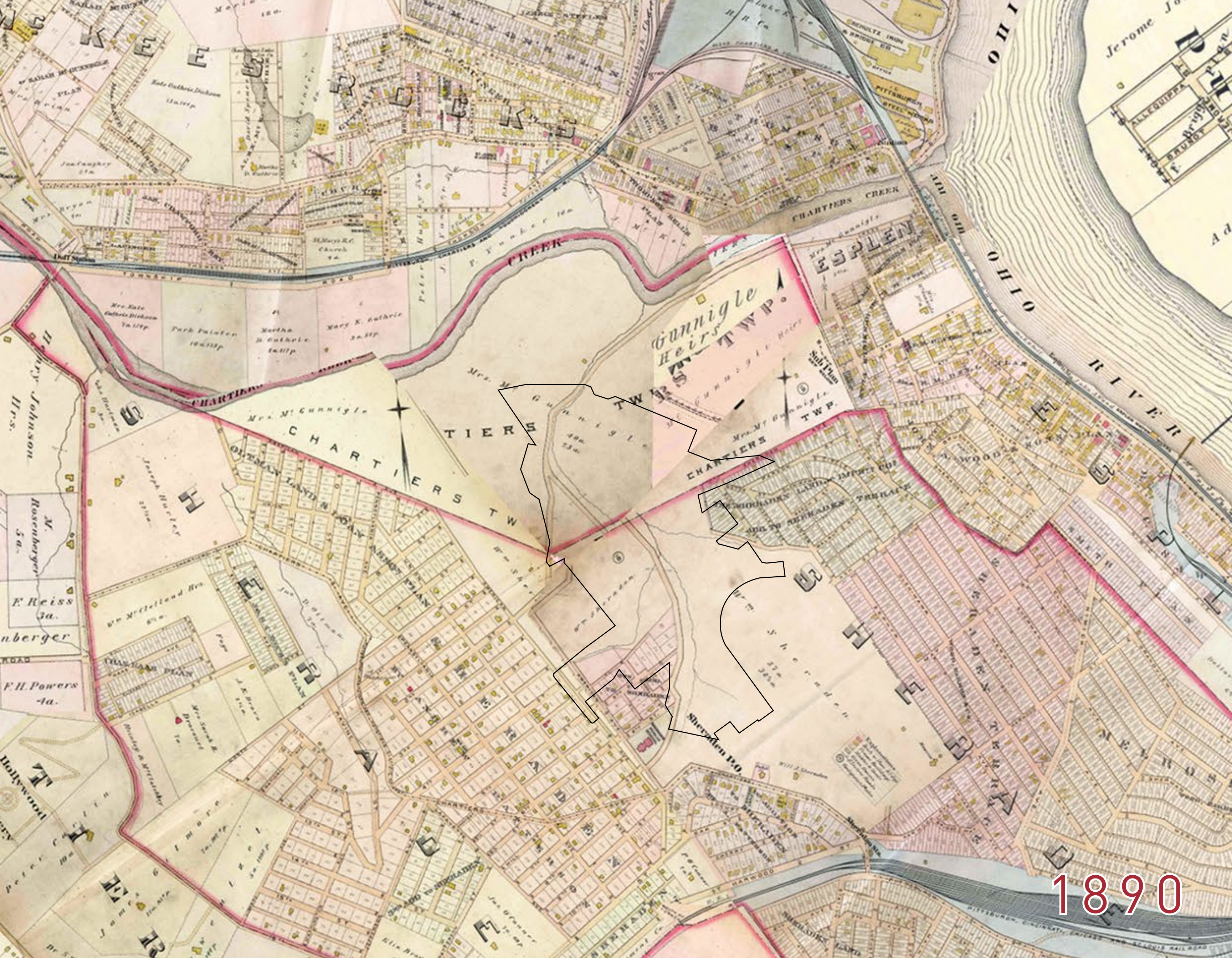
I. EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The Sheraden Park Master Plan is an inclusive planning process to reimagine Sheraden Park as one of the City's signature community parks. Currently, Sheraden Park is hidden and underutilized. The park is located in the neighborhood of Sheraden, in West Pittsburgh, and bordered by the City neighborhoods of Esplen, Chartiers City, Windgap, Crafton Heights, and Elliott. Just outside the City's border, the borough of McKees Rocks plays an important role in Sheraden Park. The park is large, with the potential to serve a much broader community. Because of its varying topography and forested character, the park offers unique opportunities for activities and amenities. Additionally, this master planning effort has resulted in recommendations to expand Sheraden Park to include a series of public land parcels connecting to nearby McGonigle Park and Tuxedo Street Skate Park, as well as providing public waterfront access to Chartiers Creek. A phased implementation strategy with estimated costs means that the plan may be easily adopted into future city budgets and by other funding sources. Projects are intended to be achievable and pieces of the larger vision of a unified framework that both builds community pride and helps to guide future capital investments.

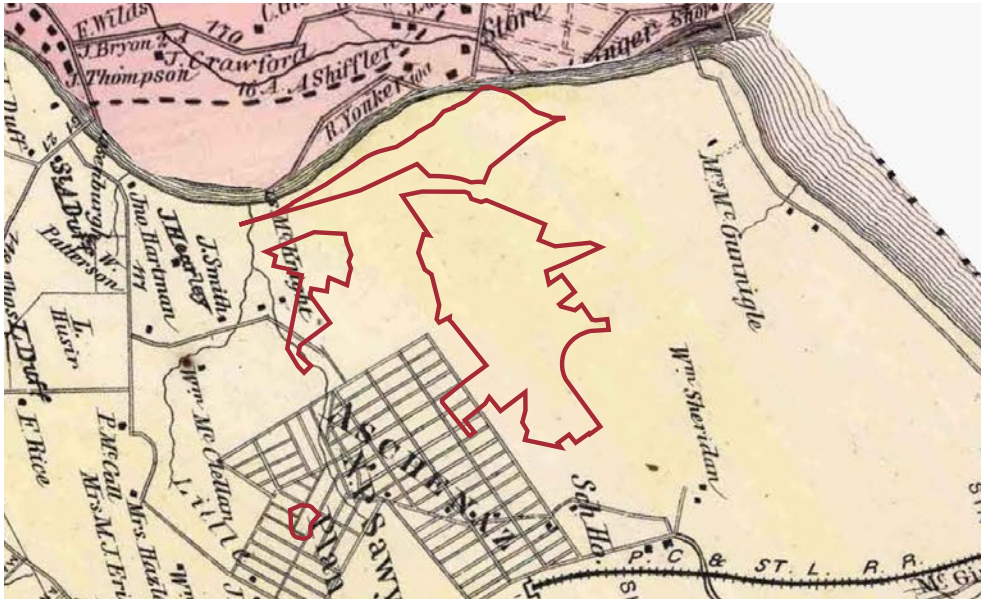


II. HISTORY


OHIO RIVER
OHIO
CHARTIERS CREEK
CREEK
ESPLEN
Gunnigle Heirs
CHARTIERS TWP.
CHARTIERS TWP.
Mrs. McGunnigle
Sheraden P.O.
Wm Sheraden
Kate Guthrie Dickson
Mary K. Guthrie
Park Painter
Martha D. Guthrie
St. Mary's R.C. Church
M. Rosenberger
F. Reiss
F.H. Powers
Joseph Hunter
Jerome
ALLEQUIPPA
PITTSBURGH STEEL WORKS
SCHULTZ IRON & BRIDGE CO
Henry Johnson Hrs.
Hollywood
MELROSE
SHERADEN TERRACE
1890

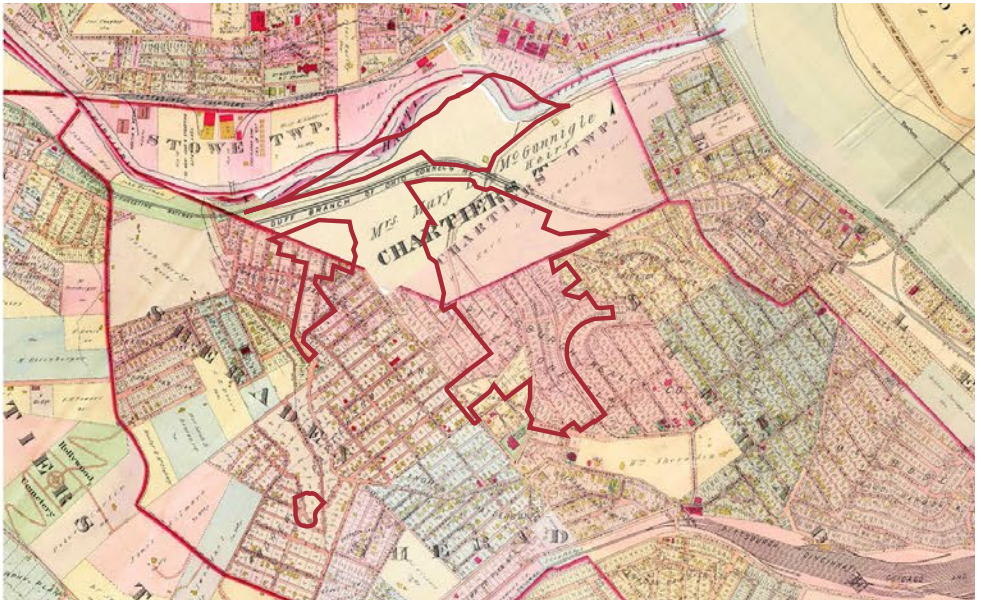
HISTORY

The Sheraden neighborhood is named after William Sheraden, a farmer and early settler of the area who invested in 122 acres of farmland in 1856. Although he did not have much interest in urban development, William Sheraden incrementally sold off pieces of his property in the late 19th century, beginning with a sale to develop the Panhandle Railroad Depot. In return, Mr. Sheraden received naming rights of the newly forming community.



1872

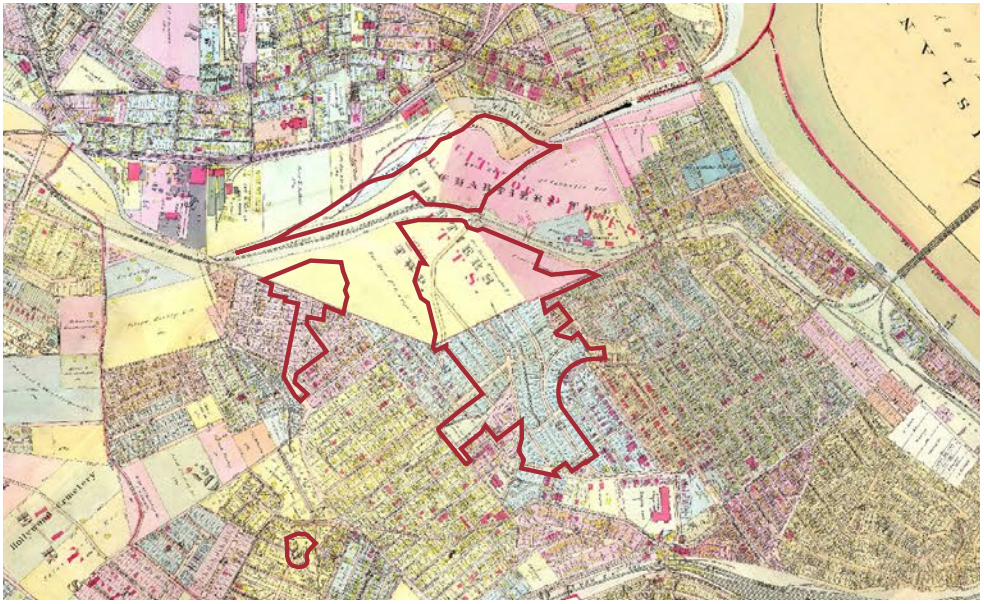
Further development took place as Mr. Sheraden sold of pieces of the farm to Wood Harmon and Co. and the Pittsburgh Realty Co. in 1900. Sheraden was established as a borough in 1894, but due to rapid growth as the city of Pittsburgh underwent an industrial boom, it was officially annexed into the city in 1907



1903

LEFT: 1890 Atlas of the city of Pittsburgh, G.M. Hopkins & Co.
TOP RIGHT: 1872 Atlas of the cities of Pittsburgh, Allegheny, and the adjoining boroughs, G.M. Hopkins & Co.
BOTTOM RIGHT: 1903 Atlas of the city of Pittsburgh, G.M. Hopkins & Co.

In 1914, the City of Pittsburgh spent $14,500 to purchase a 23-acre piece of the original Sheraden farm in order to define a future green space. This property became the original extent of what is today Shedaren Park and included amenities such as a park swimming pool, play grounds and ball fields, all accessible to other neighborhoods by trollies.



1923

Development continued around the park for a series of decades in the early 20th century and new pieces of adjacent property were annexed to more than double the size of the original park to 52 acres. Today, the park is still growing due to the pending acquisition that will give the park access to Chartiers Creek.

FAR RIGHT: 1962 photograph of the original Sheraden Park pool

TOP RIGHT: 1923 Real estate plat-book of the City of Pittsburgh, G. M. Hopkins & Co.

BOTTOM RIGHT: 1967 Real estate plat-book of the City of Pittsburgh, G. M. Hopkins & Co.

1967

Former park pool. August 1962

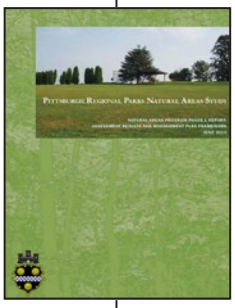
PLANNING CONTEXT

SHERADEN PARK

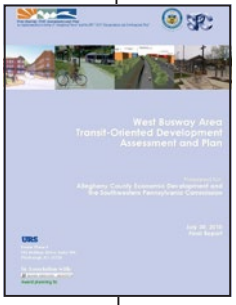
Over the last 20 years, Sheraden Park and the adjacent neighborhoods have been identified in multiple plans and reports outlining goals and objectives for public green spaces, transportation, community development, and environmental restoration throughout the city of Pittsburgh. The following reports have been thoroughly studied throughout the Sheraden Park master planning process and have been valuable tools in identifying recent work and remaining needs for the park as well as community values that have helped to shape the design of this plan.

HANSON ASSOCIATES SITE ANALYSIS AND MASTER PLAN (1999)

3 RIVERS - 2ND NATURE: STREAM RESTORATION & DAYLIGHTING (2001)



PITTSBURGH REGIONAL PARKS NATURAL AREAS STUDY (2010)



WEST BUSWAY TRANSIT ORIENTED DEVELOPMENT ASSESSMENT (2010)

WEST PITTSBURGH COMMUNITY ACTION PLAN (2010)

THE SHERADEN STREAM REMOVAL & AQUATIC HABITAT RESTORATION PROJECT (2011)

OPEN SPACE PGH (2013)

3 Rivers - 2nd Nature: Stream Restoration & Daylighting

STUDIO for Creative Inquiry Carnegie Mellon University (2001)

Goal: To identify daylighting opportunities in Allegheny County and encourage development of daylighting demonstration sites.

Short Term: Develop efficient and effective expert and public processes to identify high-potential daylighting sites and encourage initiation of appropriate projects.

Long Term: Change expert and public consciousness about the benefits of open waterways and functioning urban aquatic ecosystems, and effect the protection and restoration

Stream Solutions:

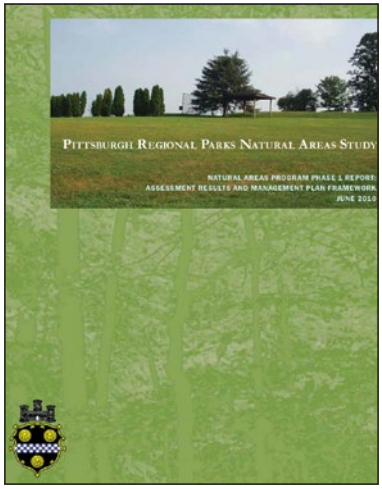
- Use portion of main ball field as stream corridor and wetland complex,
- Canalize daylit stream along edge of ballfield to retain field size
- Waterfall feature or structured step pool system to bring water from upper ball field to playground area
- Install new pipe to carry stream water, keeping it out of the sewer system
- Install a new pipe for sanitary and combined sewage coming from the developed area above the park, and convert the existing combined sewer line underneath the ball fields and facilities to carry clean dry weather stream flow and wet weather runoff from the side valleys.

Public Comments:

- McKees Rocks was a former destination for Sheraden residents. People would walk down through the floodplain and over a bridge to get there.
- A full time care taker used to life on site in the building next to the play area.
- The pool used to be where the playground is now. Its current location is a bad one, mudslides from the hillside occasionally ruin the water.
- United Way / America Cares used to have a park cleanup day twice a year.

Pittsburgh Regional Parks Natural Areas Study

Department of City Planning (2010)



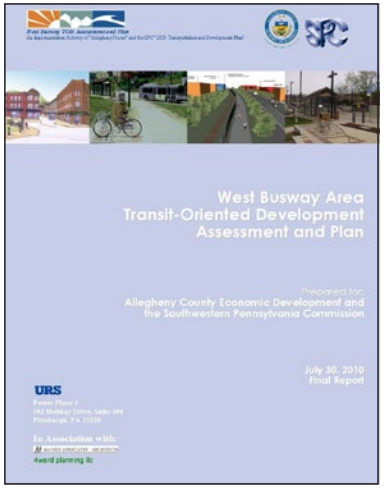
Goal: To provide an ecological assessment and analysis of Pittsburgh's Regional Parks' natural resources and to identify needs and opportunities. This analysis then acts as a baseline assessment to guide the development of a management plan framework that can inform the future phases of the Natural Areas Program.

Study Components:

- Analysis & natural resource management needs
  - -Reforestation & Supple • mental Forest Plantings
  - -Stream Restoration
  - -Wetland Restoration
  - -Meadow Restoration
  - -Invasive Species Management
  - -Soil Rehab
  - -Stormwater management Integration
- Ranking & prioritization
- Broader context & future efforts
- Pilot project identification

West Busway Transit-Oriented Development Assessment

URS Corporation + Matnes Associates (2010)



Goal:

To explore the revitalization potential of the West Busway and adjacent area communities that will support public transportation solutions to the region's transportation and land use challenges.

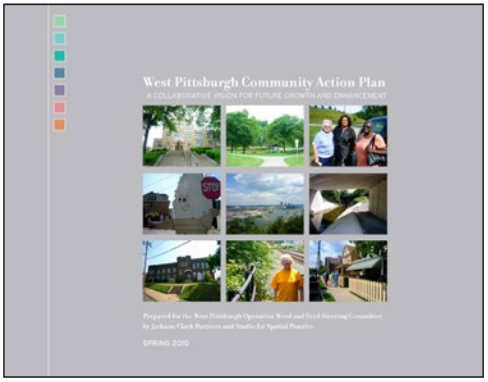
To help shift development activities into established communities as a result of enhanced understanding of development opportunities and site characteristics in the vicinity of transit-served stops and park-and-ride locations along the Busway and in the vicinity.

TOD Plan Principles:

- Renovate and construct new mixed use buildings along the small commercial zone of Sheraden (Chartiers Ave. & Sheraden Blvd)
- Attract new destination restaurant, daycare center and grocery store to the Sheraden commercial district
- Create a central plaza in front of Langley High School, preserving and incorporating the existing war memorials.
- Improve the streetscape including wayfinding and crosswalks to facilitate walking within the Sheraden downtown district and improve the public realm
- Construct a pedestrian bridge that would provide additional connections between the neighborhood and the busway station
- Improve and enhance the busway station
- Improve bike access to the area by installing bike racks and evaluating the potential placement of shared lane on Chartiers Avenue

West Pittsburgh Community Action Plan

Jackson/Clark Partners & The Studio for Spatial Practice (2010)



Goal: To create a unified strategy for progress in the West Pittsburgh communities that builds on our past successes, leverages our assets and utilizes the combined strengths of our neighborhoods to build a greater community that can better achieve each of our goals.

Weed and Seed Overview

Operation Weed and Seed is a comprehensive, joint law enforcement and community investment strategy designed to help make communities safer, so that other resources will be attracted to those communities.

Findings & Recommendations (Sheraden):

- Work with the City to address code violations, problem landlords and hazardous properties
- Clean up the mouth of Chartiers Creek to provide improved public access
- Enhance neighborhood gateways
- Leverage railroads and flat land towards green development and job creation
- Engage the local community and retailers to enhance the local business district offerings
- Develop a transit-oriented retail strategy for Sheraden Station

Sheraden Stream Removal & Aquatic Habitat Restoration Project

ALCOSAN + Army Corps of Engineers (2011)

3 RIVERS PROUD

ALCOSAN, Army Corps of Engineers lead Sheraden Park Green Revival

Project benefits the park, community and the region's Clean Water Plan

Drainage from streams add an estimated 2 billion gallons of water into the ALCOSAN sewer system. It takes up capacity in sewers intended for sewage and causes operation and maintenance problems for the municipal and regional sewer systems by clogging the sewers with gravel, rocks, sticks and other garbage. It increases combined sewer overflows (CSOs). Regulations were mandated to reduce CSOs and eliminate direct stream inflows wherever feasible.

In a cooperative effort, the municipalities and ALCOSAN have taken steps to locate, evaluate, prioritize, plan and implement stream removal projects, including one in Sheraden Park. Sheraden Creek is a spring- fed stream in the wooded uplands of the park. For decades, the stream was piped under the park into a Pittsburgh Water and Sewer Authority (PWSA) combined sewer that connected to the ALCOSAN system and overflowed into Chartiers Creek during wet weather.

Original Sheraden Creek inflow point

In 2002, a partnership was formed between the U.S. Army Corps of Engineers, ALCOSAN, the City of Pittsburgh, PWSA and neighborhood groups to re-route the sewer and to daylight the stream in the park. The project received partial federal funding, secured by Congressman Mike Doyle who has worked tirelessly to help the agencies and the project move forward. Theresa Kail-Smith has been an indefatigable supporter of this project as a member of the City of Pittsburgh Council and as a former member of the ALCOSAN Board of Directors.

In Phase I of the Sheraden Stream Removal and Aquatic Habitat Restoration Project, the groundwater springs and area stormwater drains were separated from the combined system. New storm sewer and combined sewer piping was installed through a partnership between PWSA and the Army Corps.

Phase II was designed to reduce harm to Chartiers Creek from polluted stormwater runoff and sediment erosion from the valley that would degrade the ecosystem functions, disrupt the habitat quality of the flood plain forest, create a dominance of non-native plants, and cause low wildlife suitability.

This phase of the project called for constructing a stream channel in the valley and ponds on the flood plain, restoring the native plants, and controlling the non-native invasive plant species. To accomplish this, ALCOSAN and the Army Corps gained cooperative agreements with the Ohio Central Railroad System, Duquesne Light Company, Verizon, Equitable Gas, the City of Pittsburgh and W.J. Beitler Entities for access to and ownership of the property in the flood plain.

New combined sewer pipe installation

Goal: To re-route the sewer and to daylight the stream in Sheraden park.

Phase 1:

Groundwater springs and area stormwater drains were separated from the combined system. New storm sewer and combined sewer piping was installed through a partnership between PWSA and theUnited States Army Corps of Engineers.

Phase 2:

Construction of a stream channel in the valley and ponds on the floodplain, restoring the native plants, and controlling the non-native invasive plant species. To accomplish this, ALCOSAN and the Army Corps gained cooperative agreements with the Ohio Central Railroad System, Duquesne Light Company, Verizon, Equitable Gas, the City of Pittsburgh and W.J. Beitler Entities for access to and ownership of the property in the floodplain.

Project Benefits:

- Decreased CSO overflows
- Decreased debris in the system
- Consent Decree compliance
- Less operations and maintenance
- Increased sewer capacity
- Compliance with municipal orders
- Increased recreational opportunities
- Improvement of the aquatic habitat
- Decreased pollution from CSOs
- Recharged groundwater
- Erosion control
- Reduced invasive species
- Increased green space and park lands
- Environmental education opportunities

Open Space PGH

Department of City Planning (2013)

Goal: To optimize Pittsburgh's open space, parks, and recreation system & provide design guidelines for future work

Public Involvement Findings:

- Connections and access issues
- Environmental issues
- Maintenance and funding
- Quality of life and parks

Needs Assessment and Sustainability Analysis:

- Park distribution and access
- Park quality and equity
- "A mis-matched system"
- Underfunded system
- Vacant and opportunity lands

Sheraden Park Needs Assessment Results:

- Has access issues
- Outside Green Premium boundary
- Prime candidate for redevelopment & expansion

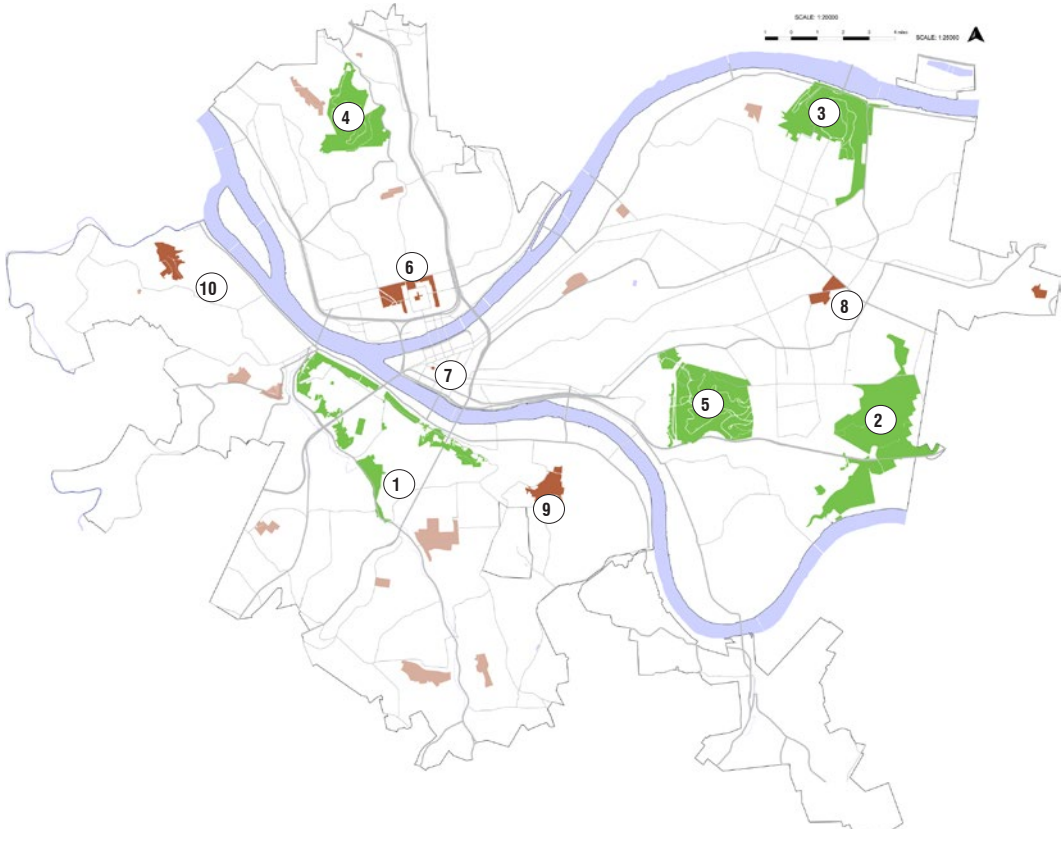
III. GOALS

REGIONAL PARKS

1. EMERALD VIEW (257 ACRES)
2. FRICK (644 ACRES)
3. HIGHLAND (377 ACRES)
4. RIVERVIEW (258 ACRES)
5. SCHENLEY (456 ACRES)

SIGNATURE COMMUNITY PARKS

6. ALLEGHENY COMMONS PARK (59.9 ACRES)
7. MARKET SQUARE PARK (0.5 ACRE)
8. MELLON PARK (32.5 ACRES)
9. SOUTH SIDE PARK (57.5 ACRES)
10. **SHERADEN PARK (51.2 ACRES)**



SHERADEN PARK: A SIGNATURE COMMUNITY PARK

OPENSPACE PGH GOALS

RECOMMENDATIONS: SHERADEN PARK

OpenSpace PGH (2013; Appendix G) developed by the Department of City Planning has done well to identify goals for regional and signature community parks around the city and helped to identify parks in need of a master planning process. The report recommended that a master plan be developed for Sheraden Park using community park design guidelines to provide vision for an expanded park. This master plan should highlight Sheraden Park's enormous potential for both expansion and development into a signature community park, with a focus on establishing physical connections to McGonigle and Tuxedo Skate Park, and incorporating the site's forest, hills and valleys to define character. OpenSpace PGH also recommended that the master plan address the relationship of scattered facilities and evaluate elimination of remote or defunct facilities.

Additional recommendations from OpenSpace PGH for Sheraden Park include:

-Determine if further expansion or river access is feasible along the recently acquired Duquesne Light Property.

-Consider new facilities for the park with the purpose of creating a critical mass of outdoor recreational facilities that take advantage of the park's natural character.

-Consider the addition of a dog park.

-Manage invasive species and restoration throughout the park.

-Engage surrounding neighborhoods through innovative community outreach techniques.

-Develop robust programming for the park that will serve the immediate neighborhoods as well as the entire City park system.

-Explore revenue generating programming.

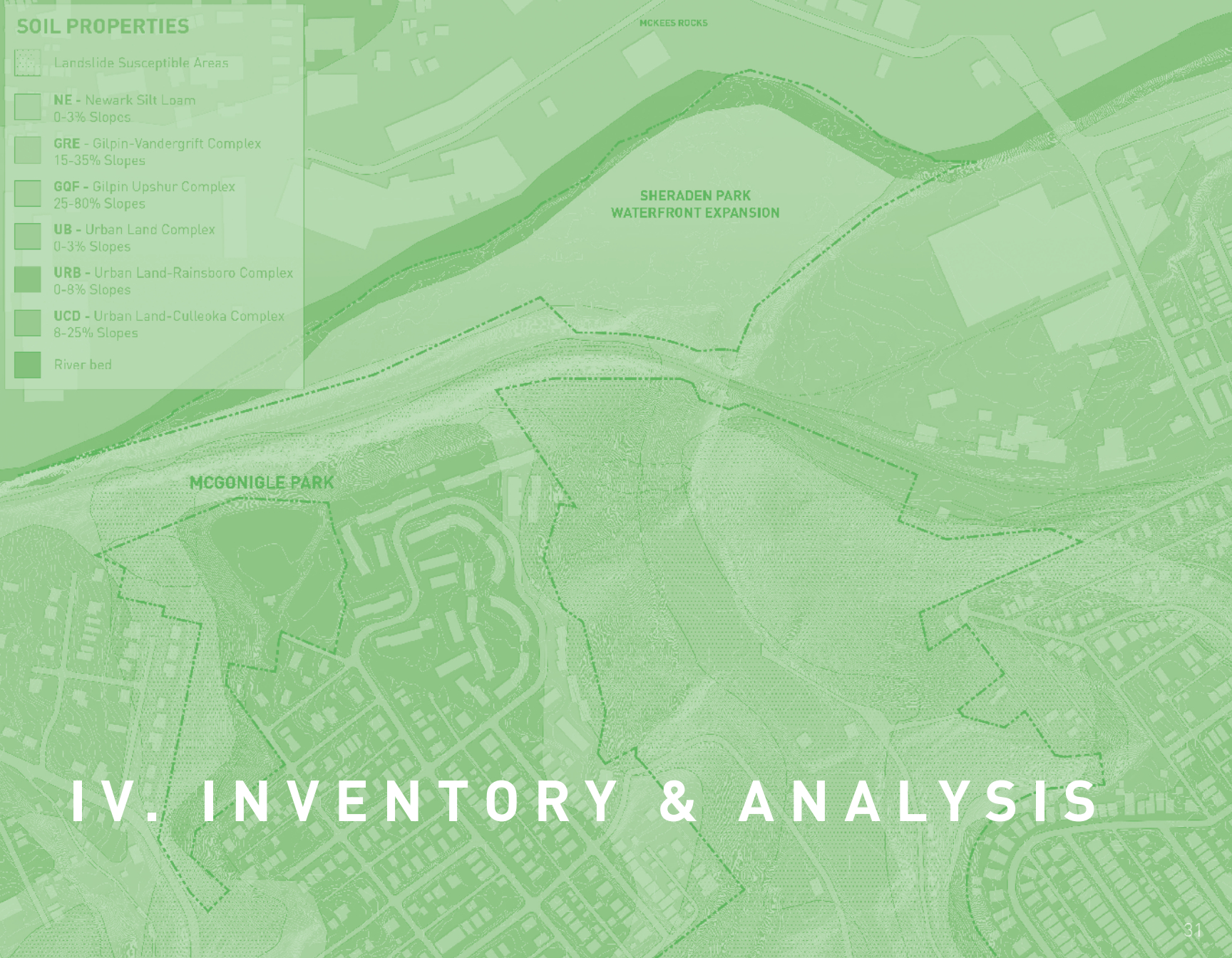
-Explore innovative and unique facilities to create destinations as well as account for surrounding assets / facilities in the West Pittsburgh region.

-Manage stormwater from surrounding drainage area and incorporate recent stream daylighting / and aquatic restoration project into master plan.

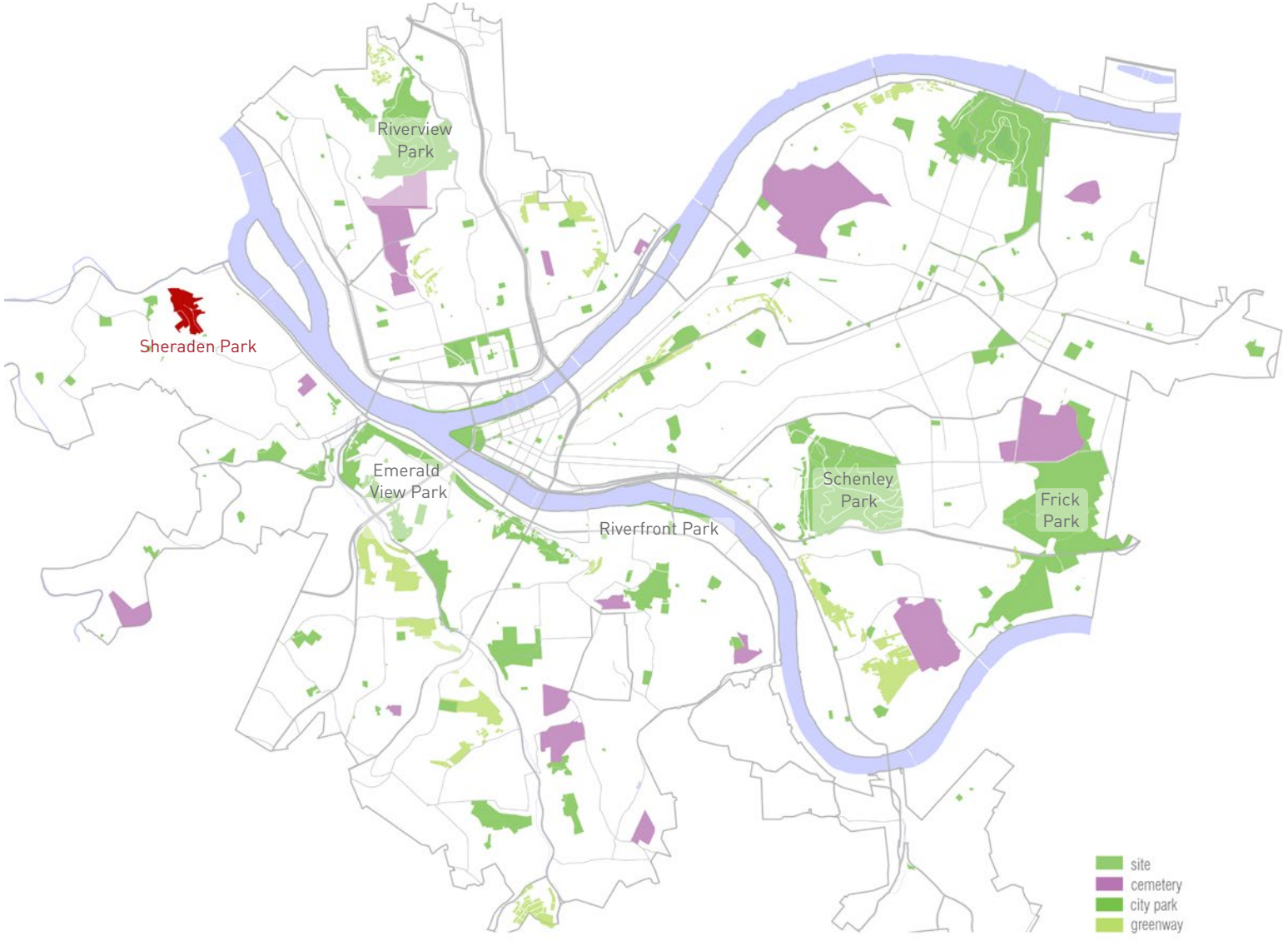
-Plan to address issues with all-terrain vehicles, vandalism, hunting, dumping and general safety concerns.

This master plan takes past planning work as its foundation (see Section II: Planning Context) and aims to align City interests with interests of dedicated community groups and non-profits that have helped steward the park.


SHERADEN
SHERADEN



IV. INVENTORY & ANALYSIS



PITTSBURGH OPEN SPACES

ENVIRONMENTAL CONTEXT

OPEN SPACE + WOODED AREAS

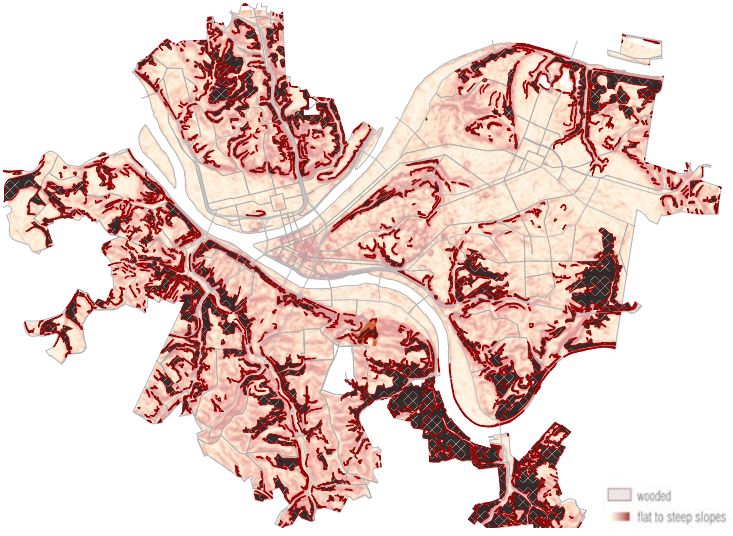
Sheraden Park is an important part of the City of Pittsburgh's Open Space system and the urban landscape's ecological corridors.

In evaluating the urban landscape ecology, Sheraden Park has the potential to play an important role. In the top right image, where wooded areas greater than one acre are overlaid with the city's open space network, Sheraden Park stands out as an island of vegetated landscape in relation to its immediate community, covered densely with housing and lacking green space. The park appears to provide a stepstone within a fragmented and forested west Pittsburgh corridor. Forested corridors are important to wildlife habitat and movement. For example, the park may offer habitat for urban bird populations that use wooded areas for nesting, foraging, and for cover, where such spaces are limited in the urban environment.

When Pittsburgh's wooded areas are overlaid on a slopes map (bottom right), a relationship between the two emerges. Steeply sloping wooded areas have been left intact due to the risk involved in their potential for development (see Steep Slope Ordinance in Pittsburgh's zoning code.) The removal of vegetation that occurs during development can create exposed soils on steep slopes, leading to erosive conditions and an increase in sediment loads in water bodies. These steep slopes, some of which are located in Sheraden Park, have inadvertently created a stronger open space system throughout the city.

Plans for Sheraden Park should be reflective of its role in larger open space network. The park hosts important wooded areas, some of which are on steep slopes, that should be protected and preserved in keeping with Pittsburgh's larger landscape ecology.

Wooded Areas (1 acre or more) in Pittsburgh



Slopes map overlaid with Wooded Areas

Sources for top map: wooded areas: PASDA, Allegheny County (2011); openspace (WPRDC, AC Land Use Areas (2006)

Entrance into park from Adon Street

Entrance into park from Sherwood Ave.

Derelict entrance into park from Fairdale Ave.

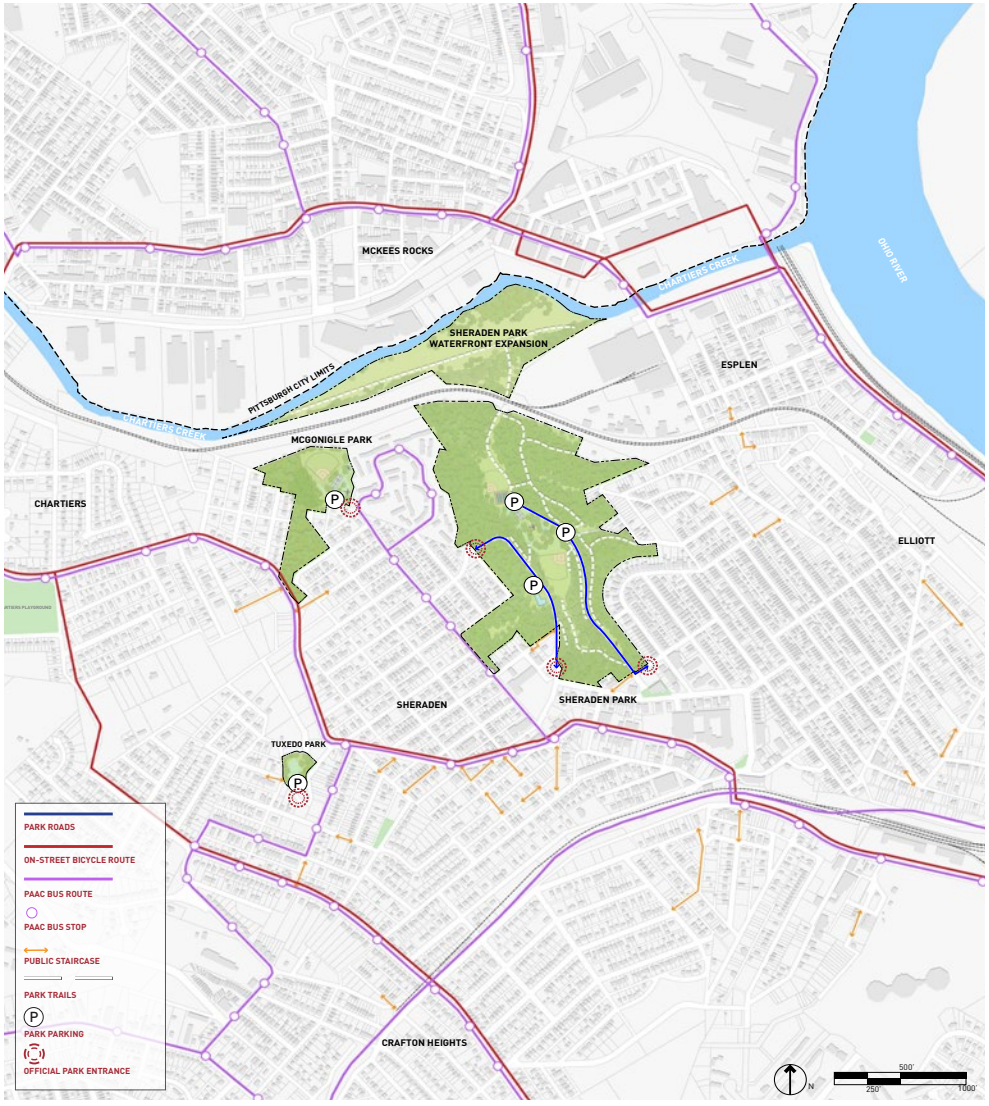
Entrance into park from Surban Street

RECREATIONAL + SOCIAL CONTEXT

NEIGHBORHOODS + CIRCULATION

The project site is located in Pittsburgh, Pennsylvania within Allegheny County, half a mile west of the Ohio River. The park is about three miles northwest of downtown Pittsburgh, and sits at the nexus of a series of neighborhoods. Sheraden, Esplen, Elliot, Chartiers City, Windgap, Crafton Heights and McKees Rocks are all neighborhoods that sit within walking distance of the park. Beginning in 2011, the stream daylighting work done by ALCOSAN and the Army Corps paved the way for the acquisition and annexation of the 21 acre waterfront parcel in the Chartiers Creek floodplain. This has brought the current park size to 73 acres and creates important access points to the creek and Ohio River. This park addition has also presented an opportunity to provide a direct connection to McKees Rocks, a neighborhood technically situated outside of the City of Pittsburgh, but in need of the public green space that Sheraden Park could provide.

Sheraden Park suffers from a lack signage and access-points, especially for foot traffic. Much of the park is hidden in the lowlands between two hillsides and can be hard to locate even for residents of the Sheraden neighborhood. The park has scattered parking areas and one way roads that do not provide consistent and fair access to the park. Additionally a series of informal trails that meander through the park and often dead end unexpectedly.



Sheraden Park lower playground

Sheraden Park upper ball field

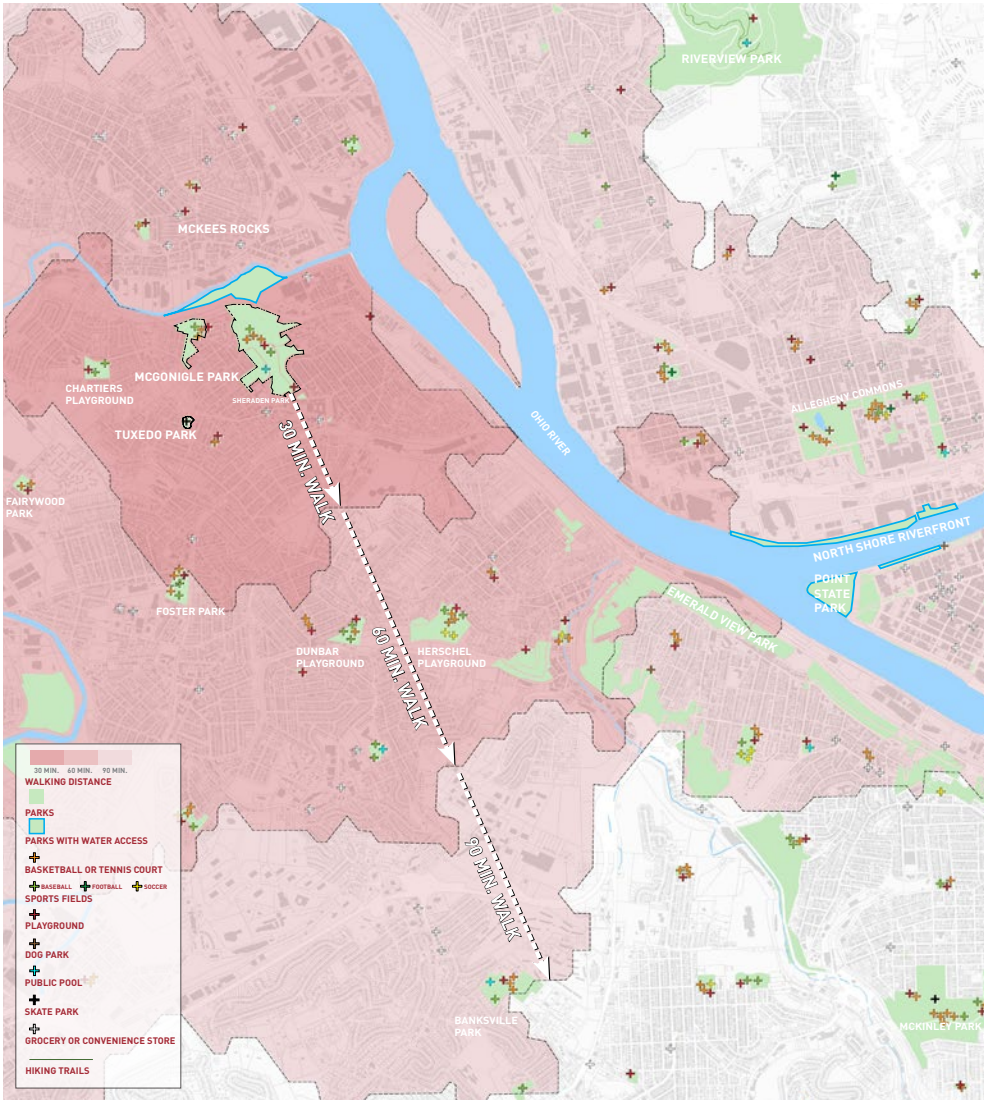
Sheraden Park pool

Sheraden Park basketball

RECREATIONAL PROGRAM

As a Signature Community Park in Pittsburgh's open space network, Sheraden Park is intended to provide recreational amenities for residents within a three-quarter-mile walkshed of the park (OpenSpace PGH). The average three-quarter-mile walk takes an individual about 15 minutes to complete. The map to the right shows other public park amenities within certain walking distances from Sheraden Park. These walksheds are centered on the park and illustrate proximity courts, fields, playgrounds and other assets located nearby. Sheraden Park, McGonigle Park and Tuxedo Park together currently offer 3 ball fields, 1 community pool, 3 basketball courts, 4 playgrounds and 1 skate park. All of these existing park amenities serve a particularly important function given the lack of these amenities within a 30-minute walking distance of Sheraden Park and the proximity goals of the Needs Assessment and Suitability analysis framework described in OpenSpace PGH. Additionally, the Sheraden Park pool and Tuxedo Skate Park are rare elements within the City of Pittsburgh all together and play an important role in spite of their hidden nature.

The proximity to Chartiers Creek is also a unique element for a park in West Pittsburgh. The creek access makes Sheraden Park the only park with potential public water access in this region of the city and the only access point within a 90-minute walking radius.



View to McKees Rocks from Floodplain

Sheraden Park lowland wetland area

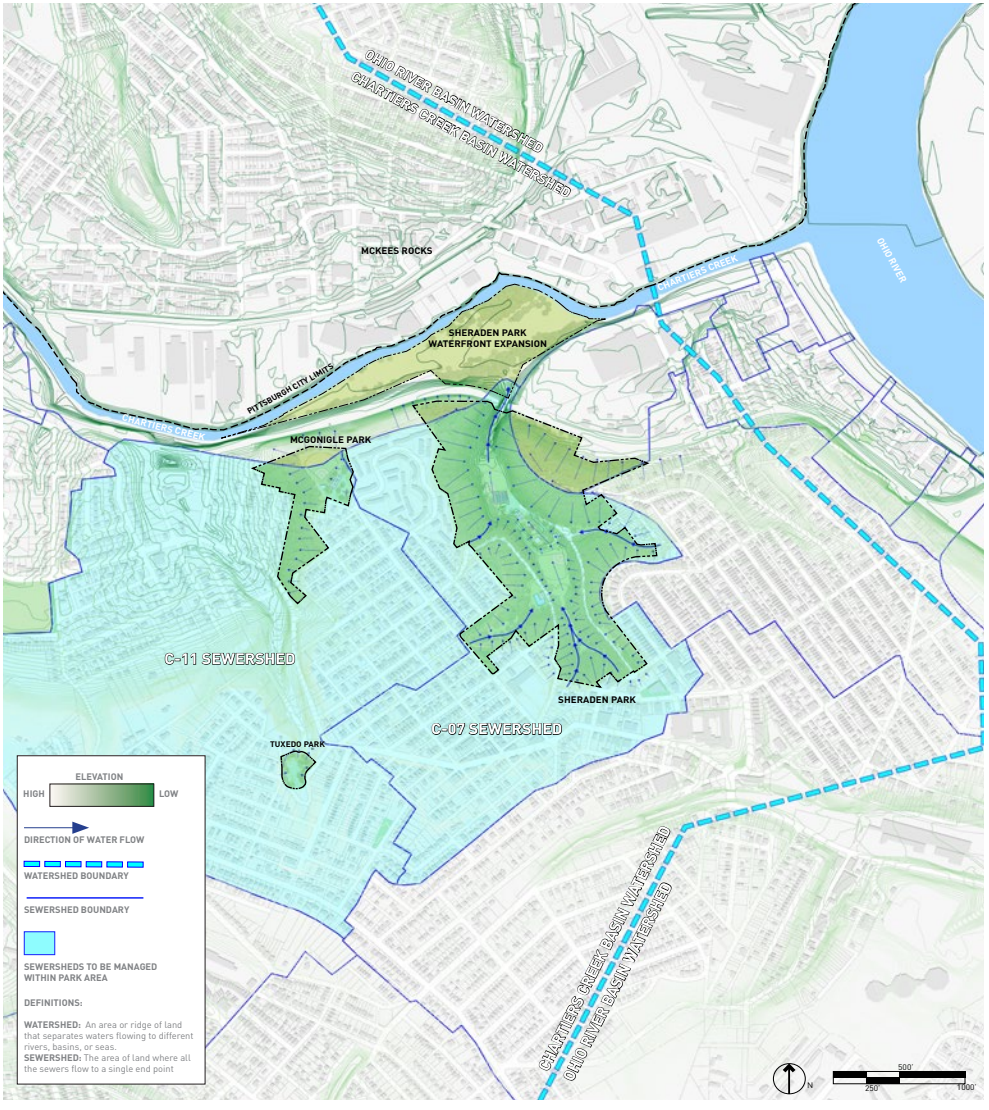
Sheraden Park closed restroom facilities

Sheraden Park lower ball field

SEWERSHED + STORMWATER + DRAINAGE

Sheraden Park is within the C-07 Sewershed which was identified as a priority sewershed for Phase 2 of PWSA's City-Wide Green First Plan. PWSA is committed to Green infrastructure and has been developing a "Green First" program, which involves implementing Green infrastructure source reduction measures first to manage stormwater at its source to maximize overflow reduction and the associated local community benefits. The C-07 and C-11 sewersheds goal is to manage 17.4 acres of impervious area. Sheraden Park is an opportunity to manage stormwater runoff from the surrounding drainage area. In addition, in 2002, a partnership was formed between the U.S. Army Corps of Engineers, ALCOSAN, the City of Pittsburgh, PWSA and the neighborhood groups to re-route the sewer and to daylight the stream in the park. The Sheraden Stream Removal and Aquatic Habitat Restoration Project aims to separate groundwater springs and stormwater runoff from the combined system. These restoration efforts have the potential to springboard additional stormwater management strategies in the park identified by this master planning process.

These stormwater goals present an opportunity to incorporate water as both an ecological design element and an educational amenity that could tie into the rest of the park and its features.



Unused Sheraden Park office building

Waterfront access tunnel under train tracks

Sheraden Park derelict tennis courts

Sheraden Park open air picnic pavilion

EXISTING SITE PROGRAM

Sheraden Park is defined largely by its unique topography. Steep slopes around all perimeters of the park force most existing park amenities to be crammed into the flat lowland areas, creating a disparity in public space use. The few trails that do utilize the forested park edges are largely informal, lacking signage and trail maintenance and are subsequently underutilized by the already limited number of park patrons. The image to the right illustrates the density of important Sheraden Park amenities at the center of the park. Some of these program elements are in poor condition. The tennis courts are defunct, the ball fields experience drainage issues after storm events and the park office building has been left empty and unused for years.

Historically, the upper ball field and picnic shelter have been popular park amenities for club ball games and picnics until the decline of the both neighborhood's population and interest in baseball. This coupled with the closure of the park building restrooms has left these features underused. The park pool is also an important and rare park element that sees consistent use during summer months and is in fair condition, but due to park access and signage issues, remains hidden for many outside of the immediate community.

The nearby McGonigle Park sees more frequent use of its ball field, playgrounds and basketball courts, likely due to proximity to homes, ease of access and fewer safety concerns by residents.

McGonigle Park

Tuxedo Park

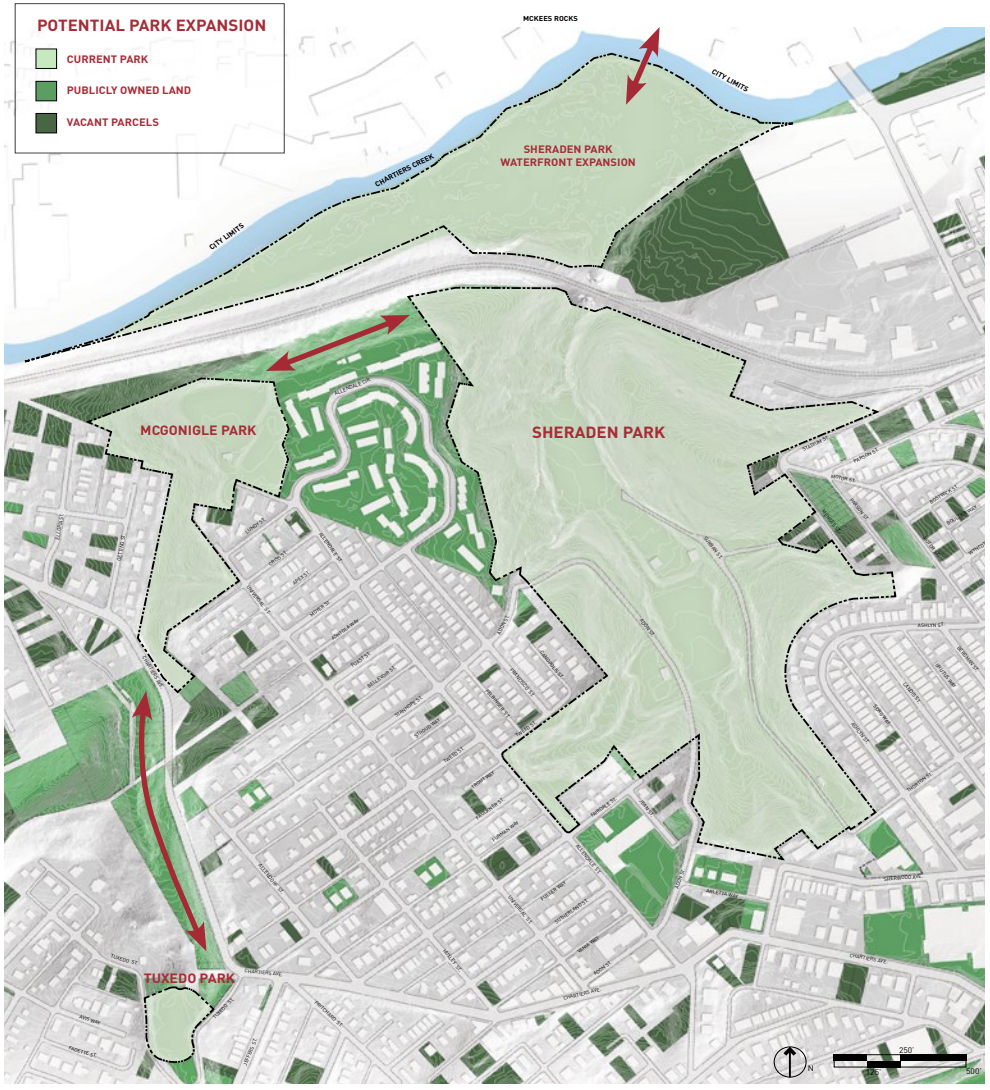
Chartiers Creek floodplain

Chartiers Creek

EXPANSION OPPORTUNITIES

Drawing from previous plans and reports that have outlined the opportunity to expand Sheraden Park, this master plan has explored potential areas for park growth. Beginning with identifying adjacent parcels that are either already publicly owned or vacant, the image to the right illustrates properties that could be purchased or annexed into the park system by the City of Pittsburgh. This graphic demonstrates the prospect of joining Sheraden Park with McGonigle Park and Tuxedo Skate Park using this park land acquisition tactic to strategically increase green space in West Pittsburgh. A contiguous park corridor such as this could provide the possibility to encompass the Sheraden neighborhood and offer more frequent park access points to residents on all sides of Sheraden and other neighboring communities.

Additionally, the recent Sheraden Park waterfront expansion has not only provided a rare opportunity for access to water, but has presented an opening for connection with the McKees Rocks community across Chartiers Creek. The McKees Rocks downtown is home to a growing commercial and cultural scene that the Sheraden neighborhood and its residents could benefit from, while McKees Rocks residents are in need of a sizable green space like Sheraden Park.



Evidence of off-roading

Dumping at Adon Street entry

Dumping on Sherden Park lower ball field

Evidence of dirt bike use

UNLAWFUL BEHAVIOR ASSESSMENT

The lack of usership and hidden nature of Sheraden Park seems to have invited a host of undesirable activities. Park maintenance staff have long struggled with illegal dumping, ATV and dirt bike use, hunting and vandalism to facilities.

A lack of adequate park lighting has been a consistent concern of Sheraden residents and has caused many to feel unsafe in certain areas of the park alone. Lack of consistent police patrol and cameras also leaves community members feeling weary of spending time in the park, leading to a decline in the number of regular park patrons. In turn, this generates further safety concerns. Because of this cyclical effect, it seems unlikely that attitudes will change or that illegal activities will stop without an intervention.

Park plans should reflect the need to promote feelings of safety and discourage these activities through the design of new and improved amenities that bring more eyes to the park and increase park usership and stewardship. The installation of cameras at park facilities and increased police patrol should be considered to deter unlawful behavior as well. As more attention is given to Sheraden Park as a result of this master plan, the anticipated increased park usership will help to create a more comfortable and safe feeling environment for park patrons.

Steep trails

Works Progress Era stone steps

Cliff face above waterfront

Power line clearing

SLOPE ASSESSMENT

The topography of Sheraden Park, combined with the dense vegetation produces the feeling of being deep in the forest and away from the bustle of urban life. The steep slopes surrounding many of the park amenities inhibit views out of the park and the thick canopy at the high points of the site make it difficult to see any part of the surrounding city. This quality is rare in an urban park and creates the opportunity for contemplative nature based activities that most Pittsburgh parks could not replicate. While this could be seen as an advantage of Sheraden Park, this quiet character is also what has led to safety concerns and feelings of isolation for some park goers.

The image to the right is representative of the slopes in Sheraden Park. The dark red indicates the steepest slopes, while the lighter color indicates flat areas and subsequently the location of most existing park amenities. There is approximately 186 feet of elevation change in the park between the highest points at the park entrances to the elevation of Chartiers Creek at the northern most boundary of the park.

The many steep slopes and cliffs within Sheraden Park can limit circulation at times and create disconnection between pieces of the park and the surrounding Sheraden neighborhood. Some of these steep slopes occur in conjunction with structurally weak soil types, making them prone to erosion, Steep slopes should be vegetated where possible to help stabilize soils.

Aging stormwater infrastructure

Erosion and road washout

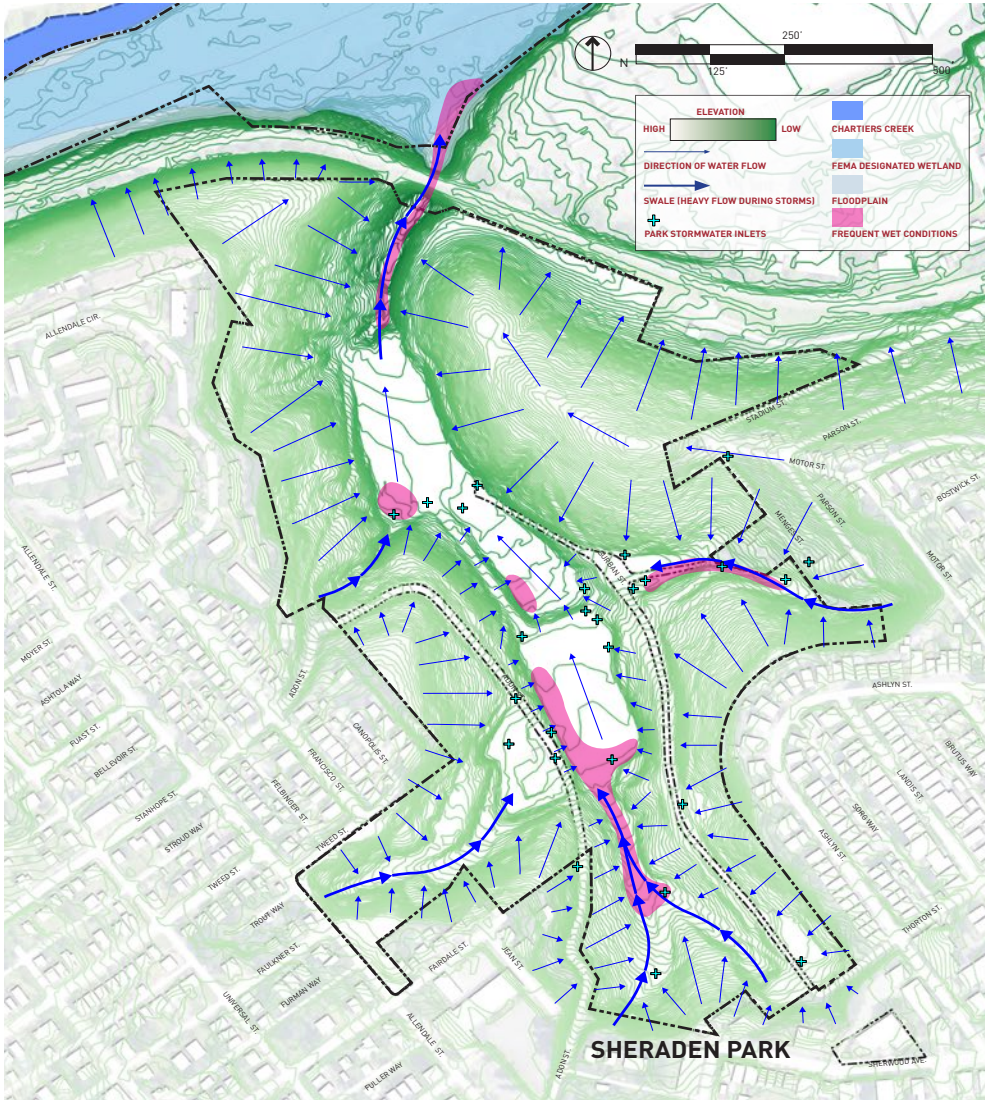
Recent stream daylighting

Channelized concrete swales

ELEVATION & HYDROLOGY ASSESSMENT

Due to a diverse range of landscape typologies, Sheraden Park has an intricate hydrological system. Defined by the steep topography, natural swales surround the park and direct stormwater from the neighborhood above, down into the lowlands of the park. Because these lowlands are some of the only flat and buildable areas of the park, there exists an unfortunate overlap between stormwater and park amenities that has caused issues over the years. The low areas of the park are filled with aging storm water infrastructure and redirected underground streams that aim to collect this stormwater and quickly send it under the park and out to Chartiers Creek. As the infrastructure in Sheraden Park ages and receives less regular maintenance, more issues with flooding and standing water are found around the ball fields and picnic shelter that make these amenities difficult to use. The image to the right illustrates the movement of stormwater on this site and the low areas prone to these conditions. This plan addresses the opportunity to combat these issues using the natural topography to create bioswales, rain gardens and detention basins that create a healthier stormwater system and ecological habitat than that which is in place.

The zone of the park along Chartiers Creek is almost entirely located within a floodplain, requiring any new planned park features to be resilient and allow for the occasional flooding that takes place as part of this natural system.



Invasive species removal along floodplain

Vernal pool habitat creation

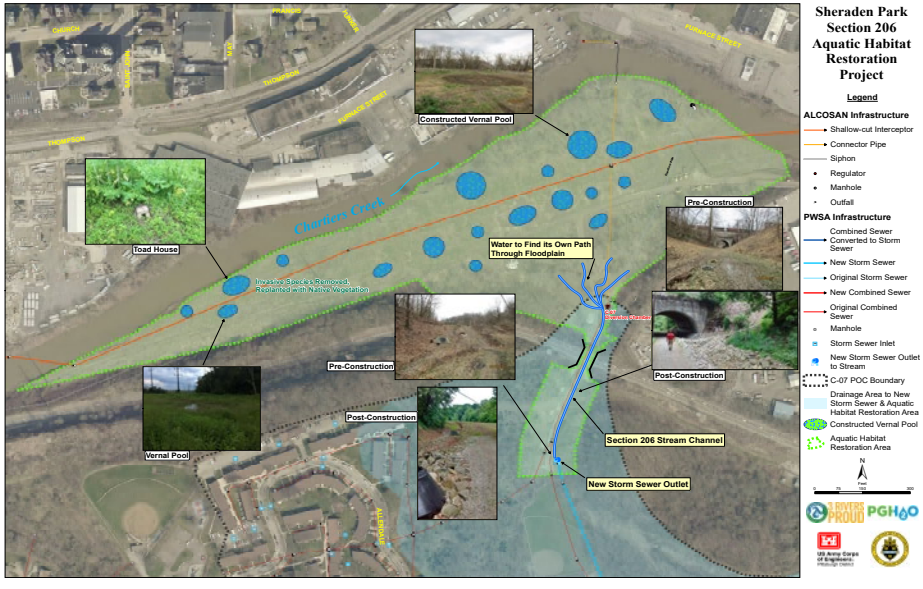
Recent stream daylighting and storm water outfall

Toad houses

RECENT PARK IMPROVEMENTS

In a cooperative effort beginning in 2002, the municipality and ALCOSAN took steps to locate, evaluate, prioritize, plan and implement a stream removal project in Sheraden Park. Sheraden Creek is a spring-fed stream in the wooded uplands of the park. For decades, the stream was piped under the park into a Pittsburgh Water and Sewer Authority (PWSA) combined sewer that connected to the ALCOSAN system and overflowed into Chartiers Creek during wet weather. In 2002, a partnership was formed between the U.S. Army Corps of Engineers, ALCOSAN, the City of Pittsburgh, PWSA and neighborhood groups to re-route the sewer and to daylight the stream in the park. (3 Rivers Proud, 2002)

In Phase I of the Sheraden Stream Removal and Aquatic Habitat Restoration Project, the groundwater springs and area stormwater drains were separated from the combined system. New storm sewer and combined sewer piping was installed through a partnership between PWSA and the Army Corps. Phase II was designed to reduce harm to Chartiers Creek from polluted stormwater runoff and sediment erosion from the valley that would degrade the ecosystem functions, disrupt the habitat quality of the floodplain forest, create a dominance of non-native plants, and cause low wildlife suitability. This phase of the project called for constructing a stream channel in the valley and ponds on the floodplain, restoring the native plants, and controlling the non-native invasive plant species. (3 Rivers Proud, 2002)



GEOLOGY ASSESSMENT

This assessment provides a summary of publicly available geologic data, as well as a few opinions based on that data and Sci-tek Inc.'s knowledge and experience about how geologic conditions at Sheraden Park may affect decisions moving forward.

This summary has been prepared in accordance with generally accepted soil and foundation engineering practices for the use by the Design Team for planning purposes. The information contained in this summary is very limited and is not intended for facility design. Facility design must be based on site-specific subsurface investigations that may be performed later. No other warranty, expressed or implied, is made as to the data or opinions included in this summary. In the event that conclusions or recommendations based upon the data obtained in this summary are made by others, such conclusions or recommendations are the responsibility of the others.

The Park is located on the western limits of the City of Pittsburgh in Southwestern Pennsylvania, which according to Figure – 1, is on the southern edge of the Pittsburgh low Plateau Section of the Appalachian Plateau Physiographic Province, which is an area or region with similar subsurface rock types and structure. The topography of this Province is dominated by a smooth to irregular undulating ground surface with narrow,

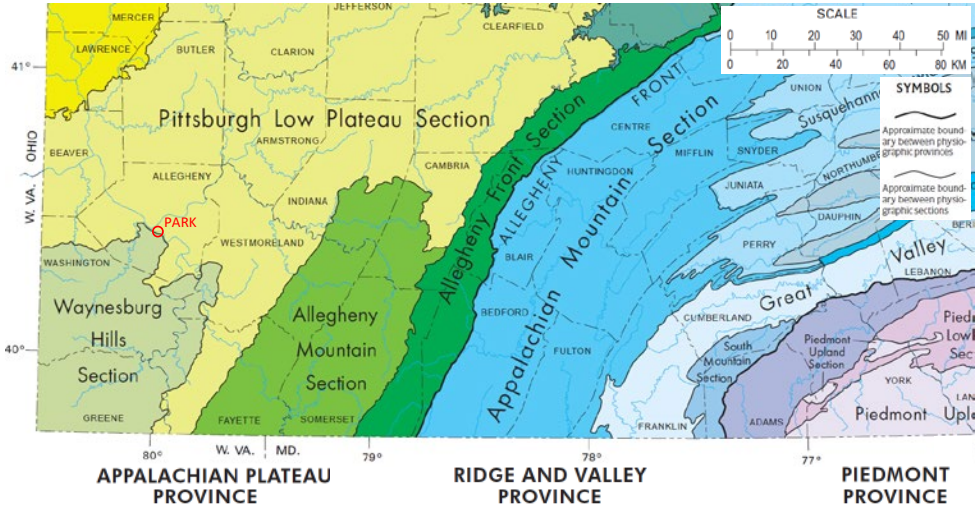


Figure – 1: The southwestern portion of PA DCNR Map 13 showing the Physiographic Provinces of Pennsylvania. Scale: As Shown
Source: Commonwealth of Pennsylvania Department of Conservation and Natural Resources Bureau of Topographic and Geologic Survey (www.dcnr.state.pa.us/topogeo)

relatively shallow valleys. The rock underlying the soil tends to be shale, siltstone, sandstone, limestone and coal, and the geologic structure of the rock is moderate to low-amplitude, open folds that decrease in occurrence toward the northwest. The origin of the geology of this area is sedimentation and erosion or deposition within ancient river beds (fluvial erosion), which was later modified by close proximity to glaciers or ice sheets causing repeated freezing and thawing (periglacial), which contributed to mass wasting.

The upper portion of the Park at the Adon Street and Surban Street entries is at an elevation of about 900 MSL while the lower portion of the Park at Chartiers Creek is at an elevation of about 714 MSL, so the total topographic relief within the Park is about 186 feet.

According to the Geology of Pennsylvania (Saylor, 1990) Southwestern Pennsylvania is underlain by 14,700 to 16,400 feet of nearly horizontally bedded sedimentary rock, the surface of which is moderately to deeply dissected. The implication of this is that the topographic relief within the Park, and all the relief in the vicinity is due largely to erosion and geologic processes such as physical, chemical and biological weathering, temperature extremes and ice wedging, and mass wasting - all of which has occurred over geologic time scales. These geologic processes moved the soil and rock that used to fill what are now

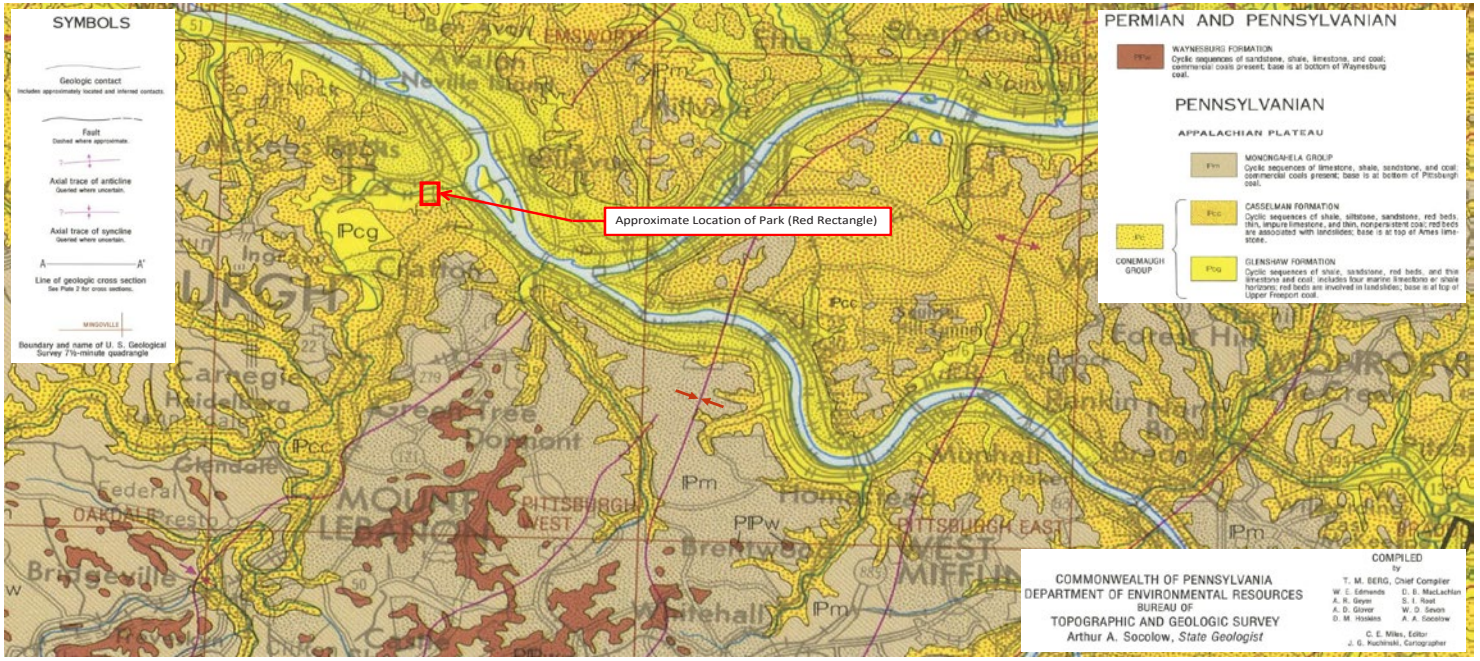


Figure – 2: A portion of the 1980 Geologic Map of Pennsylvania showing the approximate location of Sheraden Park. Scale: N.T.S.
Source: As Shown

valleys to the streams and rivers, and ultimately to the lakes and oceans where the material was deposited as sediment, which eventually will turn into sedimentary rock. However, geologic processes take place every day in the Park, and although slow and obscure, these processes and their affects can be seen by a trained eye. Examples include soil creep and landslides along the steep slopes; valley stress-relief fractures in the rock, rock falls and talus along the steep, rocky cliffs; and the chemical, mechanical, and thermal weathering of the rock and concrete structures within the Park.

Figure – 2 shows a portion of the 1980 Geologic Map of Pennsylvania showing the approximate location of Sheraden Park. The Geologic Map depicts the aerial extent of surface rock types by geologic age, formation, and group, as well as the locations of mapped anticlines and synclines, which are centerlines of high and low points respectively in the rock layers due to regional folding. Figures – 2 provides an idea of the rock one may expect to find below the soil, and/or these figures may facilitate the identification of the rock exposed in outcrops at the site.

STREAM, WILDLIFE, AND FOREST ASSESSMENTS

Field investigations were conducted within the extents of the 52.90-acre Sheraden Park in Pittsburgh, Pennsylvania on August 27th, 2019 by a qualified biologist from Resource Environmental Solutions, LLC. Field investigations entailed visually assessing on-site wetlands and watercourses, invasive species, forest health and composition, wildlife presence and wildlife habitat suitability. Data collected from the field investigation effort, in conjunction with desktop Geographic Information System (GIS) analysis, was utilized to compile the results and associated supporting document provided in this report. This report summarizes the methods and results of this investigation and documents potential restoration opportunities and management challenges for inclusion in future discussions regarding the Sheraden Park Master Plan.

METHODS

Wetlands and Watercourses: Sheraden Park was visually assessed for the presence of streams and wetlands. Visual observations of on-site streams were made to characterize hydrology, channel geometry, channel stability, floodplain connection, riparian vegetation, riparian zone of influence (ZOI), and channel alterations. Observations of on-site wetlands were made to characterize hydrology, vegetation, ZOI, and degree of disturbance. A functional analysis of existing on-site streams and wetlands was performed following the Pennsylvania Riverine/Wetland Condition Level 2 Rapid Assessment Protocols (PA RAP) (PADEP, 2019) to assess the overall resource condition of the water resources.

Vegetation: Vegetation data was collected through visual observations and by utilizing data sheets/ samplingplots specific to the Urban Forest Effects Model (UFORE). The full UFORE model was not performed due to the scope of this assessment. Adequate data was collected to allow the full UFORE model to be performed in the future, if desired. Appendix A: Figure 1: Forested Canopy Cover Map shows the location of the four randomly generated sampling plots, as well as percent forested canopy cover. Figure 2: Invasive Species Map shows the estimated range of percent cover of invasive species across the park (Appendix A). Sampling plots encompassed 1/10th of an acre and were used to collect invasive species and forest composition data, which are relevant to the UFORE model. 2

Wildlife: Wildlife observations were recorded while walking within the extents of Sheraden Park following the format of the Pittsburgh Regional Parks Natural Areas Study (June 2010). Habitat suitability for wildlife was determined using best professional judgement.

Table 1: Stream PA RAP Summary

Functional Group	Score	Condition	Condition Index	Resource Condition Index
Channel / Floodplain	10	Marginal	0.50	
Riparian Vegetation (Floodplain)	13	Suboptimal	0.65	
Riparian ZOI (100' for Floodplain Edge)	13/2	Suboptimal/Poor	0.57	0.52
Instream Habitat	N/A	N/A	N/A	
Channel Alteration	7	Moderate	0.35	

Table 2: Wetland PA RAP Summary

Functional Group	Score	Condition	Condition Index	Resource Condition Index
Wetland ZOI	12, 7, 4, 3	Low Suboptimal, Low Marginal, Low and High Poor	0.50	
Roadbed Presence Index	17, 14	Low Optimal and High Suboptimal	0.80	
Vegetation Condition Index	12, 14	Low and High Suboptimal	0.65	0.75
Hydrologic Modification Index	11	Low Suboptimal	0.55	
Sediment Stressor Index	20	High Optimal	1.00	
Water Quality Stressor Index	20	High Optimal	1.00	

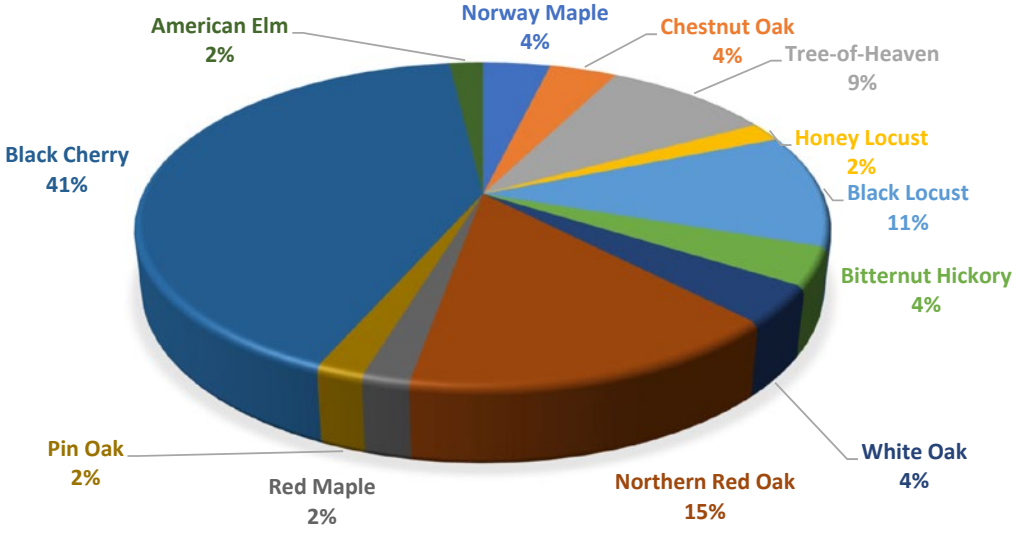
RESULTS

Streams and Wetlands: During the construction of the park, the majority of the existing streams were ditched and piped. The two streams observed within the park can be characterized as small intermittent headwater drainages that convey high volumes of surface water runoff and debris from the surrounding urban areas downslope into the park (Figure 5). The surface runoff and steep grade have resulted in highly eroded and degraded banks and respective floodplains. The beds are dominated by heavy clay and gravel within entrenched streambanks. Due to the degree of channel alternation and erosion observed, the functional assessment indicates that the streams have a Resource Condition Index score of 0.52, which falls within the 'marginal' range (Table 1: Stream PA RAP Summary). The lack of floodplain connectivity resulting from channelization further increases the stress on these small channels and the clay-dominated substrate provides poor instream habitat for macroinvertebrates. Although the invasive species and the overstory trees within the riparian areas are adding woody debris to the system and providing some bank stabilization, the woody debris is largely flushed out during runoff events. The overall stream summary PA RAP data sheet is provided in Appendix B: PA RAP Data Sheets.

Table 3: Vegetative Plot Species Summary

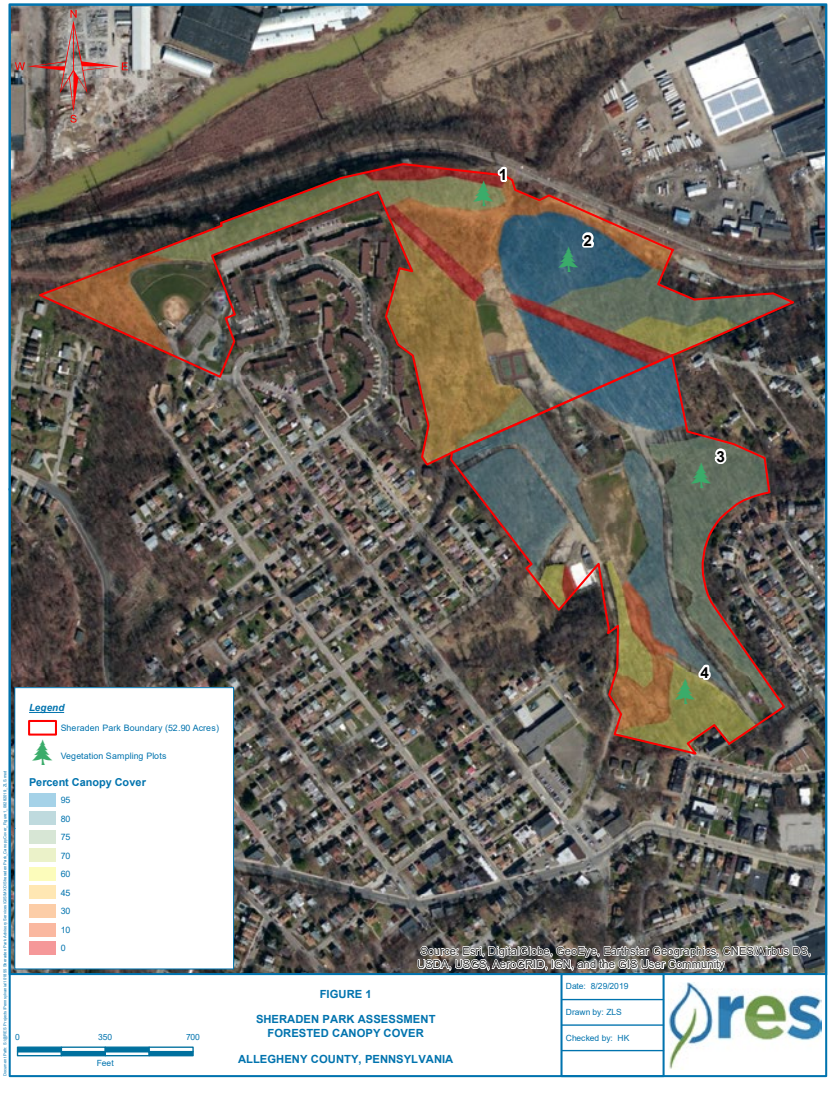
Native Woody Species List		Invasive Species List	
Scientific Name	**Common Name**	**Scientific Name**	**Common Name**
Prunus serotina	Black Cherry	*Fallopia japonica*	Japanese Knotweed
Robinia pseudoacacia	Black Locust	*Alliaria petiolata*	Garlic Mustard
Ulmus americana	American Elm	*Lonicera morrowii*	Morrow's Honeysuckle
Quercus palustris	Pin Oak	*Rosa multiflora*	Multiflora Rose
Carya cordiformis	Bitternut Hickory	*Celastrus orbiculatus*	Oriental Bittersweet
Gleditsia triacanthos	Honey Locust	*Microstegium vimineum*	Japanese Stiltgrass
Acer rubrum	Red Maple	*Lonicera japonica*	Japanese Honeysuckle
Quercus prinus	Chestnut Oak	*Ailanthus altissima*	Tree of Heaven
Quercus alba	White Oak	*Acer platanoides*	Norway Maple
Quercus rubra	Northern Red Oak	*Ligustrum vulgare*	European Privet
		Rhodotypos scandens	Jetbead

Figure 1: Tree Species Composition



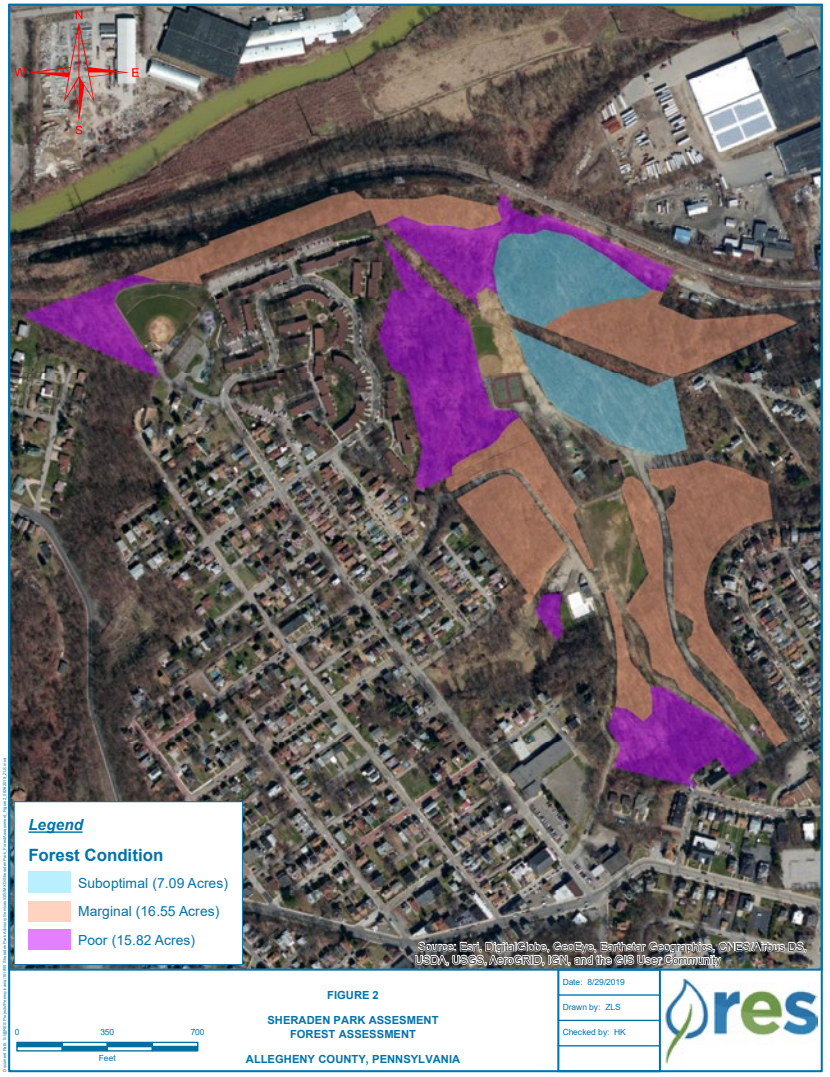
One depressional, palustrine emergent (PEM) wetland was identified within the southwest corner of the park (Figure 5). The wetland appears to derive hydrology from groundwater and was created as a result of disturbance associated with the piping of a historic stream during park construction. The wetland is dominated by native vegetation (Carex spp. and Poa spp.) but is surrounded by invasive, non-native Japanese knotweed (Fallopia japonica). The results of the functional assessment indicate that the wetland has a Resource Condition Index score of 0.75, which falls within the suboptimal range (Table 2: Wetlands PA RAP Summary). The wetland summary PA RAP data sheet is provided in Appendix B: PA RAP Data Sheets.

Vegetation: The visual and plot assessments indicate that the existing deciduous forested stand is varied in nature and exhibits significant pressure from invasive species. In most areas, invasive species are preventing development of the understory and natural woody species regeneration. Table 3: Vegetative Plot Species Summary provides an inventory of native woody species and invasive species observed during the field investigation. Individual vegetative sampling plot data sheets are provided in Appendix C: Vegetation Plot Data Sheets. Figure 1: Tree Species Composition summarizes the percent composition of the tree species identified within the vegetative sampling plots.



As a component of the forest assessment, the forested sections of the park were subdivided into three categories (Poor, Marginal, and Suboptimal) based on invasive species cover, forested health/ diversity, and habitat quality. Please reference Appendix A: Figure 2: Forest Assessment for a visual perspective.

Forests graded as 'poor' had canopy of cover of 50 percent or less with an invasive species percentage of 50 percent or higher. 'Poor' grade forests made up approximately 40 percent of th forested areas in Sheraden Park. These areas were characterized as having few healthy native dominant trees and being encroached by Japanese honeysuckle (Lonicera japonica) or European privet (Ligustrum vulgare). Additionally, an overabundance of oriental bittersweet (Celastrusorbiculatus) was observed in these areas, which is also having an adverse impact on living trees. 'Marginal' ranked forested areas made up 41 percent of the assessed forest. These areas had a canopy cover of 50-90 percent and an invasive species cover of 20-49 percent. 'Marginal' forests had major invasive species encroachment but the higher canopy coverage has somewhat limited the spread and dominance. 'Suboptimal' forests made up approximately 19 percent of Sheraden Park, within one geographic location. This area can be characterized as having a mature and healthy overstory, with coverage of invasive species limited to herbaceous species, such as garlic mustard (Alliaria petiolata) and Japanese honeysuckle (Celastrus orbiculatus).



An assessment of land use types was also performed using 2011 National Land Cover Data. The NLCD data indicates that 78 percent of the park is forested, 10 percent is impervious, and 12 percent is considered urban/open space. Appendix A: Figure 4: Land Use Map provides the visual results of this assessment within the boundary of Sheraden Park.

Wildlife: The field investigation noted several generalist avian species in the park, which utilize thick invasive pockets for nesting habitat and cover. Forested sections of the park provide suitable habitat for small to mid-size mammals. Rabbit (Sylvilagus sp.) and white-tailed deer (Odocoileus virginianus) tracks were identified throughout the park. Please reference Appendix A: Figure 2: Forest Assessment for a visual perspective of forested habitat quality.

CONCLUSIONS

The results of the field investigation effort concluded that on-site streams are degraded and persist in 'marginal' condition due to intense runoff from urban areas during storm flow events. It is recommended that minor stream enhancement and rehabilitation take place to reduce erosion and increase health and stability of the streams in the park. This would include the installation of rock and wood structures to prevent further erosion and degradation and encourage the development of large woody debris. As the riparian buffers along the stream are heavily

invaded by invasive species, the existing streams would benefit from invasive species control/ management and supplemental woody plantings to promote the reestablishment of a more diverse native woody stand. The existing wetland was assessed to be in 'sub-optimal condition', due to its position and history of disturbance, but with minimal invasive species presence. The wetland would also benefit from invasive species control and supplemental woody plantings to increase the habitat and ecosystem benefits to the park.

The existing upland forests are suppressed by invasive species throughout the majority of the park. With the high number/volume of invasive species and the heavy propagule pressure from the surrounding urban landscape and recreational use, the 'suboptimal' forested section would five be a reasonable target for initiating invasive species control efforts without requiring the intensive work involved with managing constant re-invasion along the forested edge transition. Within the 'suboptimal' forested setting, overstory trees are healthy enough that a chemical and mechanical treatment of the understory could be completed in an efficient and effective manner without ecological harm. Within this area, it is recommended that control efforts move outwards into the 'marginal' forested communities focusing on the understory and more aggressive invasive species referenced in Figure 3. These invasive species can arrest succession, limit the development of a healthy understory and minimize the benefit to wildlife and recreation.

Maintaining canopy shade while attacking invasive ground cover will provide the best chances to improve the forest health and increase overall habitat complexity and heterogeneity.

LIST OF APPENDICES

Appendix A: Figures

Appendix B: PA RAP Data Sheet

Appendix C: Vegetation Plot Data Sheets

REFERENCES

City of Pittsburgh Department of City Planning. 2010. Natural Areas Program Phase 1 Report:Assessment Results and Management Plan Framework. Pittsburgh Regional Parks Natural Areas Study. Nowak, D.J., and D.E. Crane. 2000. The Urban Forest Effects (UFORE) Model: quantifying urban forest structure and functions. In: Hansen, M. and T. Burk (Eds.) Integrated Tools for Natural Resources Inventories in the 21st Century. Proc. Of the IUFRO Conference. USDA Forest Service General Technical Report NC-212. North Central Research Station, St. Paul, MN. pp. 714-720. http://www.ufore.org/about/05-00.html and http://www.nrs.fs.fed.us/tools/ufore/

Pennsylvania Department of Environmental Protection. 2017. Pennsylvania Riverine Condition Level 2 Rapid Assessment. Bureau of Waterways Engineering and Wetlands. Pennsylvania Department of Environmental Protection. 2017. Pennsylvania Wetland Condition Level 2 Rapid Assessment. Bureau of Waterways Engineering and Wetlands.

V. OUTREACH

OUTREACH

OVERVIEW

The Steering Committee, the Department of City Planning (DCP), and the Design Team worked to facilitate community involvement via multiple types of outreach and methods of engagement throughout the master planning process. Outreach materials included mailers, fliers, postcards and magnets. DCP and the design team worked with the Steering Committee to ensure that news of upcoming community meetings was spread throughout the park's surrounding neighborhoods and city via word of mouth and social media. Additional methods to facilitate community feedback took place through a series of meetings, interviews, surveys, and events.

OUTREACH MATERIALS

Outreach material played an important role in the Sheraden Park Master Plan process. Materials advertising community events were distributed and posters were hung throughout the Sheraden neighborhood and nearby communities. In addition to DCP and the Steering Committee representatives, many community group members generously volunteered their time for the outreach process. Groups posted on social media, sent emails to members, and included articles in newsletters. Event reminder magnets were passed out at community events as a way to invite and remind residents of upcoming events and to get involved.

STEERING COMMITTEE INTERVIEWS

The Design Team organized individual interviews with each member of the Steering Committee listed below in order to gain detailed insight from a range of organizations and residents with a deep knowledge of the park and its important history.

AFFILIATED ORGANIZATIONS & DEPARTMENTS:

Theresa Kail-Smith -City Councilwoman, District 2

Kevin Pawlos - Director, Office of Management & Budget

Tom Paulin - Superintendent of Parks, Department of Public Works

Andrea Ketzel - Landscape Architect, Department of Public Works

Joe Fedor - Environment Scientist, ALCOSAN

Jeane Clark - Director of Governmental Affairs, ALCOSAN

Henry-Horn-Pyatt - Small Buissiness & Redevelopment Manager

Ana Flores - Engineer III, PWSA

Susan Rademacher - Parks Curator, Pittsburgh Parks Conservancy

RESIDENT VOICES:

Debra Bailey - President, Sheraden Community Council

Lallon Thompson - Resident

Jeb Feldman - Director of Economic Development, McKees Rocks CDC

Taris Vrcek - Director, McKees Rocks CDC

Rick Hildebrand - Sheraden Baseball / Resident

Marianne Muraska - Sheraden Kiwanis Club / Resident

Shawn Smith - Resident

Don Scholz - American Legion / Resident

Kickoff site walks with Steering Committee

VI. PLAN DRAFTS +ENGAGEMENT


CURRENT CONDITION:
PROPOSED IMPROVEMENTS:
CHARTIERS CREEK BOAT LAUNCH & BOARDWALK
SHERADEN PARK MASTER PLAN

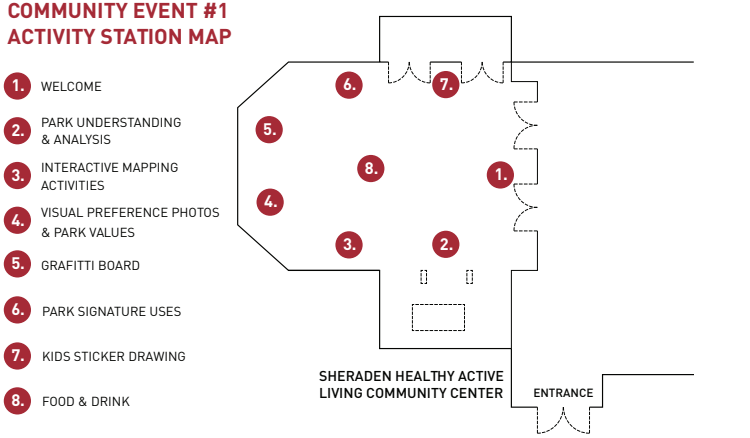
OVERVIEW

SUMMARY

The master planning process was closely intertwined with community engagement and feedback received from outreach efforts. A major component of the process was the four community events that took place from July 2019 through January 2020. These meetings informed each other and the design's progress. They also allowed the community to directly interface with the Design Team which resulted in a firsthand understanding of the needs and wants of the parks users. The Design Team then worked closely to integrate the resulting feedback into the evolving plan.

COMMUNITY EVENT 1

The goal of the first community event was to get park usersand Sheraden residents to describe their general needs and feelings regarding outdoor spaces, for general aesthetic styles, and towards Sheraden Park itself. The Department of City Planning and Design Team hosted a series of stations (map top right) which offered route and destination mapping, site analysis discussion, and various means of collecting input regarding program elements and design possibilities.
35 adults attended the first community event, representing Sheraden, Esplen, Crafton Heights, Highland Park, Windgap, Westwood and McKees Rocks.



Map of Community Event 1 stations

Graffiti board sample from Community Event 1

CE1 Station 2: Park Understanding and Analysis

CE1 Station 2: Park Understanding and Analysis

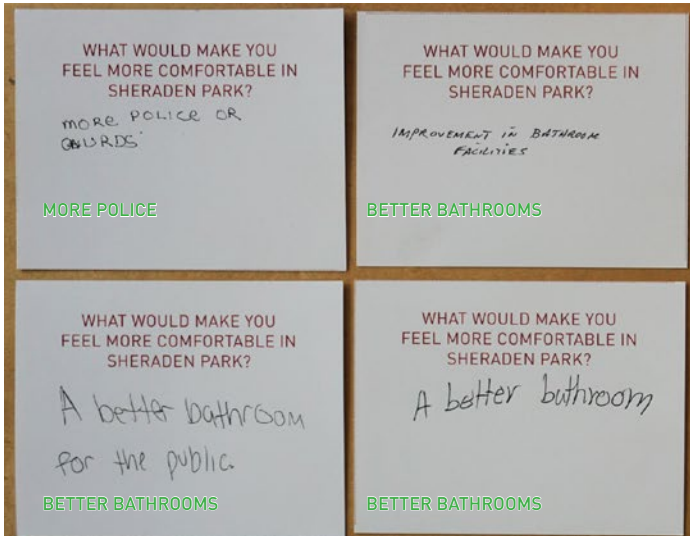
CE1 Station 3: Interactive Mapping Activities

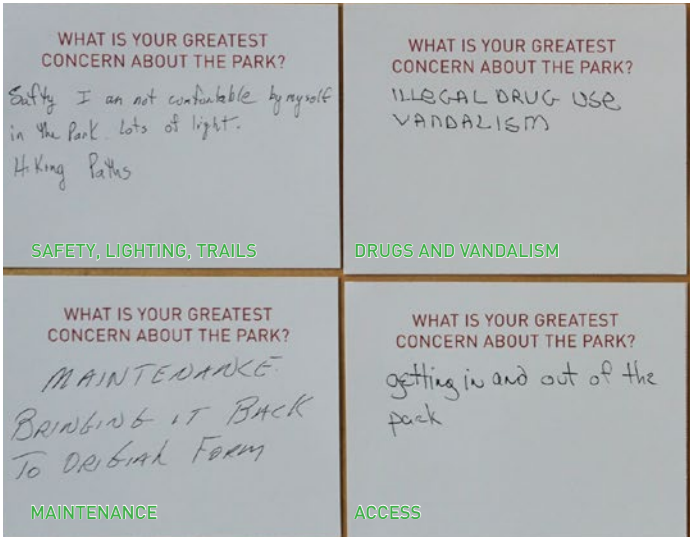
CE1 Station 4: Visual Preference Photos & Values Questions

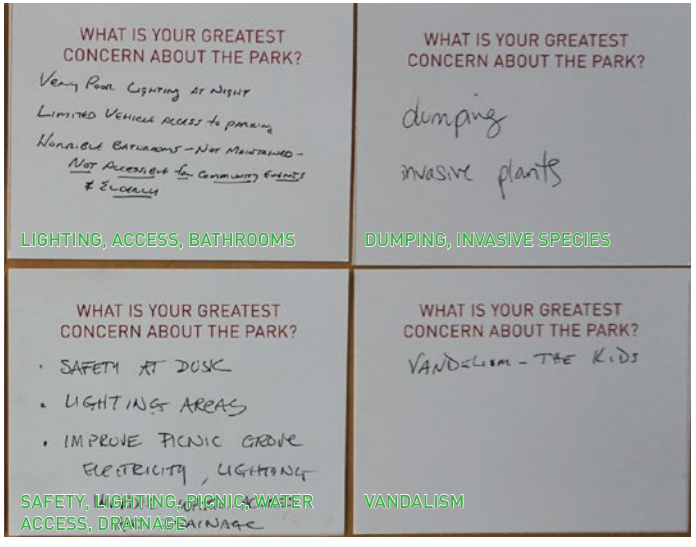
EVENT ACTIVITIES

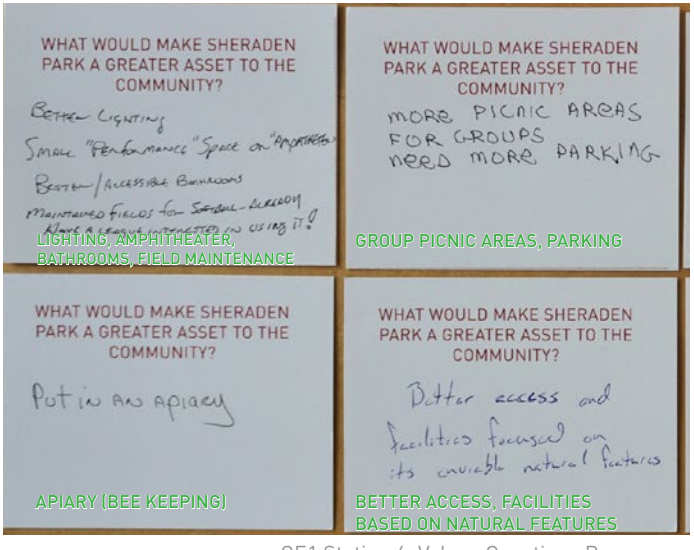
A series of interactive activities were set up around the event venue in order to provoke thought and spur conversation from community members about what they would like to see in Sheraden Park. These activities aimed to engage residents about their concerns and desires for the park through precedent imagery of possible park elements, questionnaires about their values, and mapping activities that allowed community members to visualize themselves in the park in order to give the Design Team a better understanding of current usership. The image below identifies the most popular images as part of county event 1's Visual Preference photo station and gave the Design Team a better understanding of desirable programming to study for Sheraden Park.

CE1 Station 4: Visual Preference Photos (Most Popular)

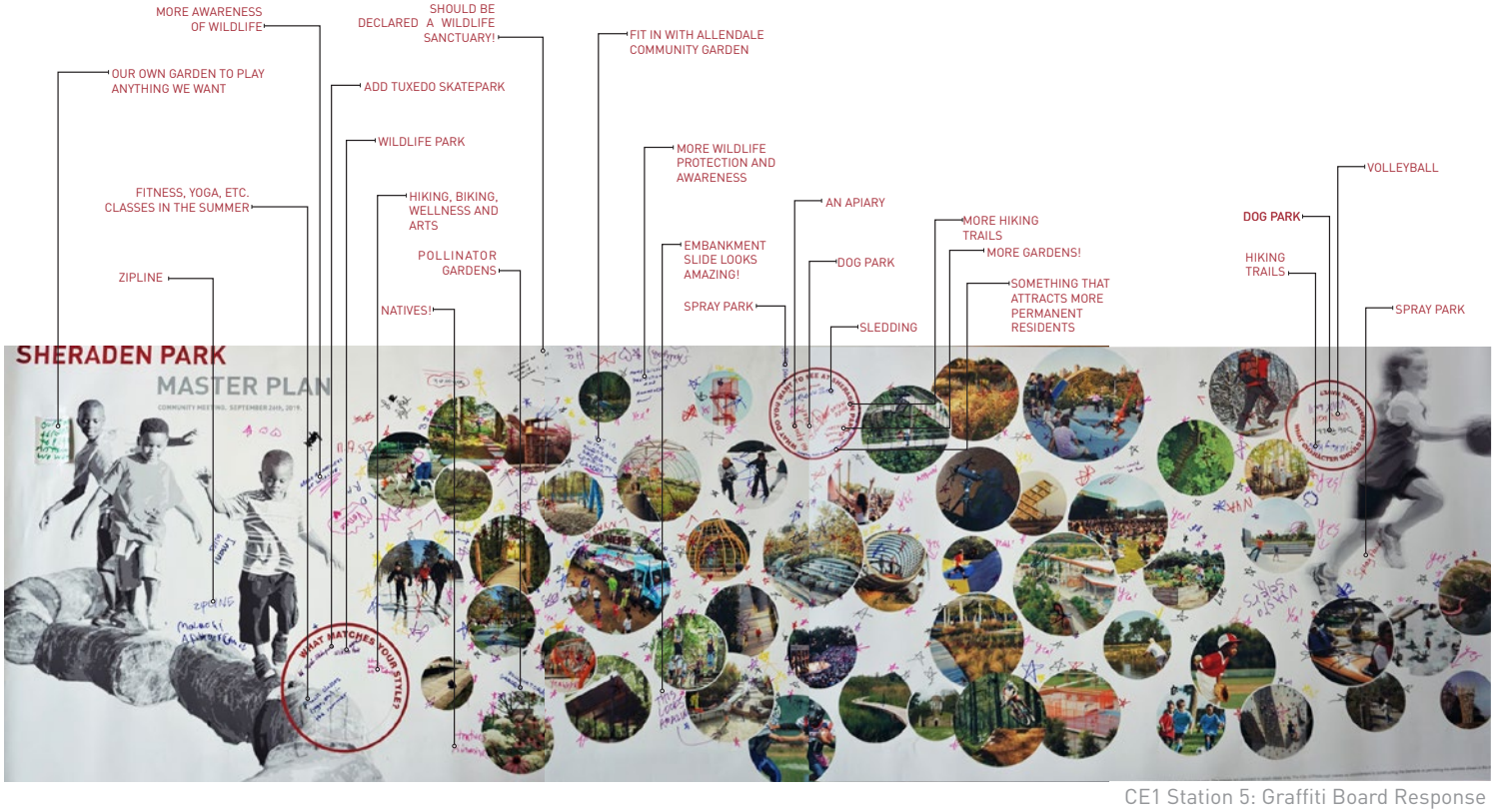








CE1 Station 4: Values Questions Responses



CE1 Station 5: Graffiti Board Response

CE1 Station 5: Graffiti Board

CE1 Station 5: Graffiti Board

TOWARDS DESIGN

Community Event 1 revealed reoccurring requests for updated restrooms, safety and lighting improvements, trail maintenance and expansion, dumping clean up, improved access, kids activities, an updated gathering pavilion, wildlife protection, and boat access to Chartiers Creek. Improvements to existing park facilities such as the ball fields were also frequently requested.

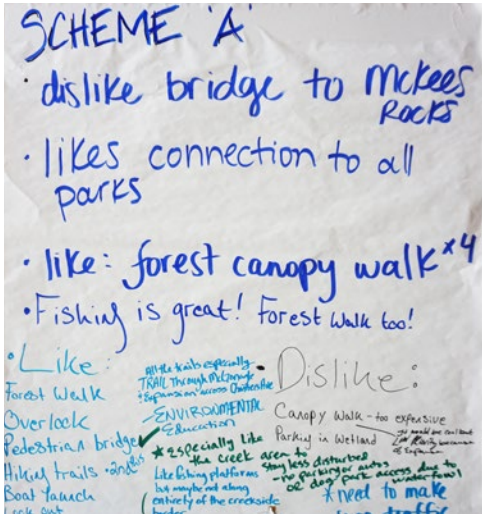
PRELIMINARY PLANNING + DESIGN

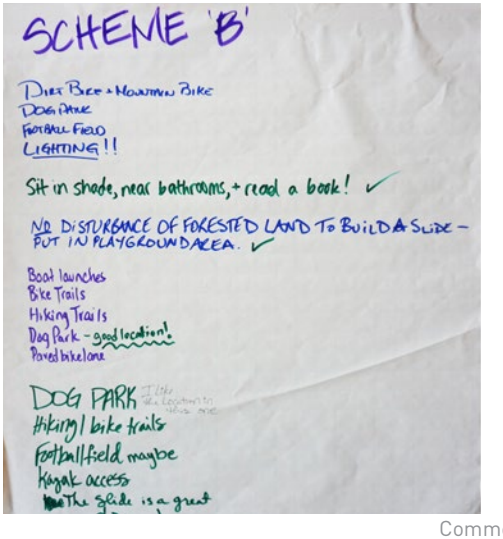
In conjunction with the results from Community Event 1 and feedback from steering committee interviews, the Design Team developed three schemes that revolved around common elements that were consistently identified.

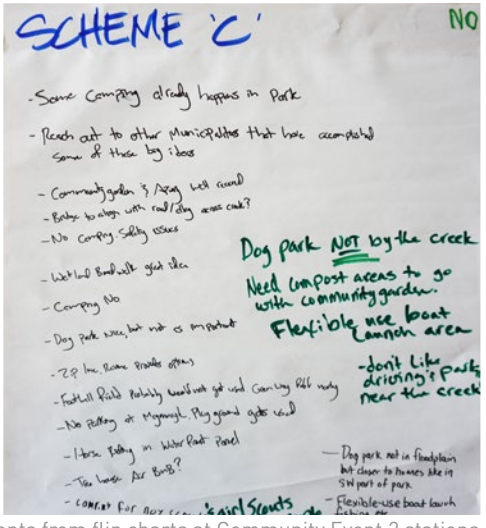
COMMUNITY EVENT 2

The goal of Community Event 2 was to present preliminary concepts to get a feel for the design direction and to present specific elements in order to gauge their popularity before they were carried forward into the Draft Master Plan. 27 Adults attended. Residents came from the following neighborhoods: Sheraden, McKees Rocks, Chartiers City and Esplen. Community Event 2 was designed around three schemes: A) Wilderness & Ecology; B) Active Recreation; C) Community Gathering & Events. The Design Team explained that participants need not choose between the schemes; instead they were asked to comment on and/or prioritize a variety of elements that were featured within the schemes.

Scheme A - Wilderness & Ecology showcased natural elements such as boat launches, boardwalks and trail improvements, green infrastructure, outdoor classrooms, and nature based play features. Scheme B - Active recreation prioritized sports and play and offered ideas for elements like volleyball, football, mountain biking, embankment slides and a large dirt biking facility located at Tuxedo Park. Scheme C - Community gathering & events was centered around creating social spaces like community gardens and event spaces. It also focused on providing opportunities for vendors in order to generate revenue for Sheraden Park and the surrounding community.







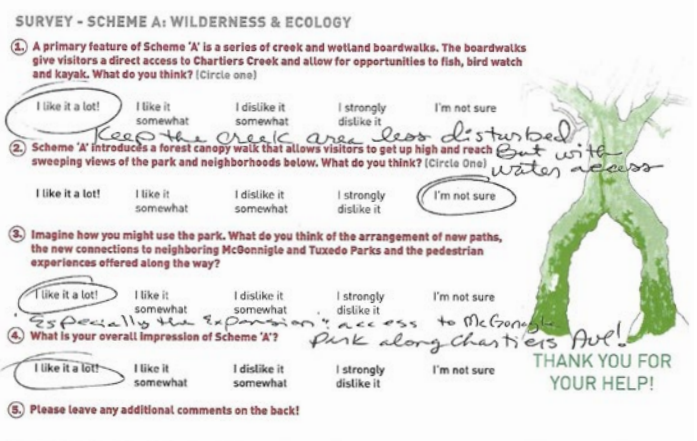
Comments from flip charts at Community Event 2 stations

Community Event 2 photos

PLAN DRAFTS - Scheme A

SCHEME A WILDERNESS & ECOLOGY

1. Park access
2. Parking
3. Hiking trails
4. Stair improvements
5. Boardwalk
6. Kayak/canoe launch
7. Bioswale/rain garden & environmental education
8. Built wetland
9. Fishing platform
10. Lookout platform
11. Lookout tower
12. Forest canopy walk
13. Paved bicycle lane
14. Pedestrian bridge
15. Lighting improvements
16. Electronic bathroom locks
17. Lewis & Clark trail signage
18. Nature based playground


SURVEY - SCHEME A: WILDERNESS & ECOLOGY

1. A primary feature of Scheme 'A' is a series of creek and wetland boardwalks. The boardwalks give visitors a direct access to Chartiers Creek and allow for opportunities to fish, bird watch and kayak. What do you think? (Circle one)
I like it a lot! / I like it somewhat / I dislike it somewhat / I strongly dislike it / I'm not sure
Keep the creek area less disturbed But with water access

2. Scheme 'A' introduces a forest canopy walk that allows visitors to get up high and reach sweeping views of the park and neighborhoods below. What do you think? (Circle One)
I like it a lot! / I like it somewhat / I dislike it somewhat / I strongly dislike it / I'm not sure

3. Imagine how you might use the park. What do you think of the arrangement of new paths, the new connections to neighboring McGonnigle and Tuxedo Parks and the pedestrian experiences offered along the way?
I like it a lot! / I like it somewhat / I dislike it somewhat / I strongly dislike it / I'm not sure
Especially the expansion, access to McGonigle Park along Chartiers Ave!

4. What is your overall impression of Scheme 'A'?
I like it a lot! / I like it somewhat / I dislike it somewhat / I strongly dislike it / I'm not sure

5. Please leave any additional comments on the back!

THANK YOU FOR YOUR HELP!

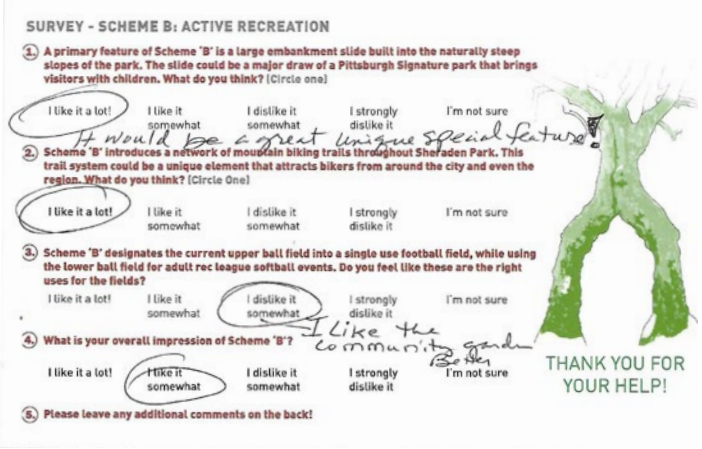
Sample Scheme A survey response

CREEK & WETLAND BOARDWALK:

Scheme A Renderings

PLAN DRAFTS - Scheme B

1. Park access
2. Parking
3. Hiking trails
4. Stair improvements
5. Dog park
6. Boat launch/docks
7. Football field & stormwater detention
8. Beach/sand volleyball
9. Mountain bike trails
10. Skate park relocation
11. Embankment slide
12. Nature based playground
13. Paved bicycle lane
14. Vehicular bridge
15. Lighting improvements
16. Electronic bathroom locks
17. Updated concessions
18. Dirt bike facility


SURVEY - SCHEME B: ACTIVE RECREATION

1. A primary feature of Scheme 'B' is a large embankment slide built into the naturally steep slopes of the park. The slide could be a major draw of a Pittsburgh Signature park that brings visitors with children. What do you think? (Circle one)

I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

It would be a great unique special feature!

2. Scheme 'B' introduces a network of mountain biking trails throughout Sheraden Park. This trail system could be a unique element that attracts bikers from around the city and even the region. What do you think? (Circle One)

I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

3. Scheme 'B' designates the current upper ball field into a single use football field, while using the lower ball field for adult rec league softball events. Do you feel like these are the right uses for the fields?

I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

4. What is your overall impression of Scheme 'B'?

I like the community garden

I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

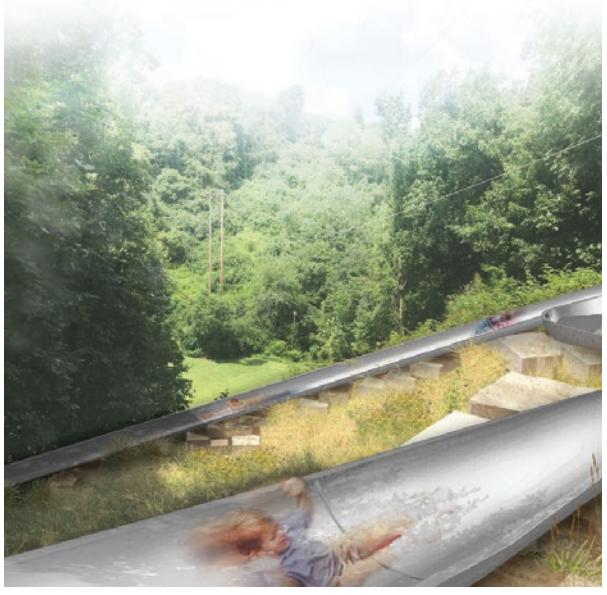
5. Please leave any additional comments on the back!

THANK YOU FOR YOUR HELP!

SCHEME B ACTIVE RECREATION

Sample Scheme B survey responses

HILLSIDE EMBANKMENT SLIDE:



Scheme B Renderings

PLAN DRAFTS - Scheme C

SCHEME C COMMUNITY GATHERING EVENTS

1. Park access
2. Parking
3. Hiking trails
4. Stair improvements
5. Community garden & apiary
6. Food truck pull around
7. Amphitheater & flexible gathering space
8. Senior activities & rose garden
9. Canopy trimming
10. High ropes course
11. Camp sites
12. New rentable park pavilion, event space and cafe
13. Paved bicycle lane
14. Pedestrian bridge
15. Yoga/fishing/boat launch & rentals flexible platform
16. Lighting improvements
17. Electronic bathroom locks
18. Updated picnic shelter
19. Dog park


SURVEY - SCHEME C: COMMUNITY GATHERING & EVENTS

1. A major goal of Scheme 'C' is to create spaces that aid in building community and generating revenue for ongoing park events and maintenance. This includes constructing a new community building with various types of rentable spaces for events. What do you think?
I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

2. Scheme 'C' introduces a large community garden as well as an amphitheatre for musical performances and events in place of the current upper ball field. This sunny spot could act as a centralized gathering space for the community and a place for neighbors to meet and interact. What do you think?
I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

3. Scheme 'C' promotes the idea of multiple streams for revenue generation for the park through 3rd party vendors, such as food trucks, kayak rentals and a high ropes course. Are these appropriate for Sheraden Park?
I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

4. What is your overall impression of Scheme 'B'?
I like it a lot! | I like it somewhat | I dislike it somewhat | I strongly dislike it | I'm not sure

5. Please leave any additional comments on the back! A place to congregate, entertain, etc. are great but I'd limit what you charge.

THANK YOU FOR YOUR HELP!

Sample Scheme A survey responses

COMMUNITY GARDENS & GATHERING SPACE:

Scheme C Renderings

DRAFT PLAN

DRAFT MASTER PLANNING + DESIGN

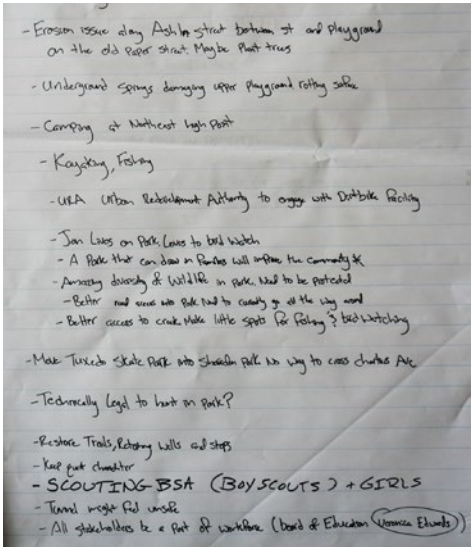
As the Design Team collected and summarized the results from Community Event 2 and the Schemes Surveys, the team also simultaneously conducted stakeholder interviews and to discuss the needs and wants of the Department of City Planning. Together these sources of information informed the Draft Master Plan which was presented at Community Event 3.

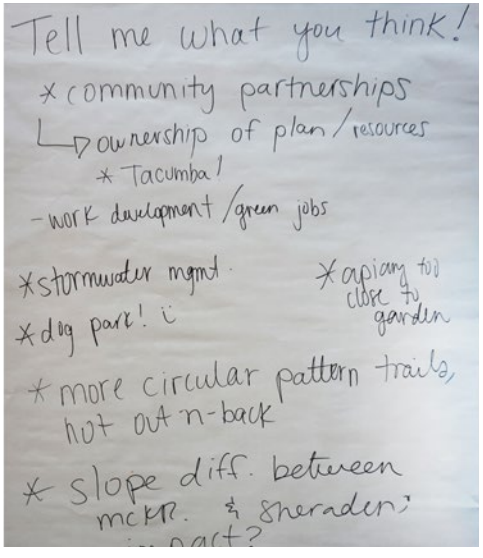
COMMUNITY EVENT 3

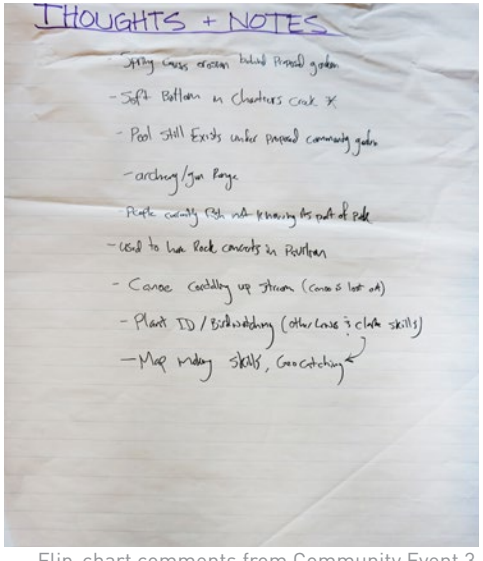
The goal of Community Event 3 was to present one cohesive plan that aimed to incorporate all of the feedback that had thus far been acquired. 38 adults attended from Sheraden, Mckees Rocks, Westwood, Elliot, Windgap, East Liberty, Crafton Heights and Northside.

The Draft Master Plan incorporated the following elements: Park road connections, stormwater management strategies, ADA accessible community gardens, A full size football/ soccer field, nature based play areas, a forest embankment slide, mountain bike trails, a dog park, a pedestrian bridge to McKees Rocks, boat rentals, boat launches, flexible creek side boardwalks and a major dirt bike facility in addition to important baseline improvements.

Participants were very excited about the Draft Master Plan although there was hesitation about some of the bigger and more expensive design elements and how the build out of this plan might take shape in phases. The general consensus was that the Draft Master Plan contained the appropriate elements, but that some of them could be rearranged and needed a bit more critical thought in order to be successfully executed.







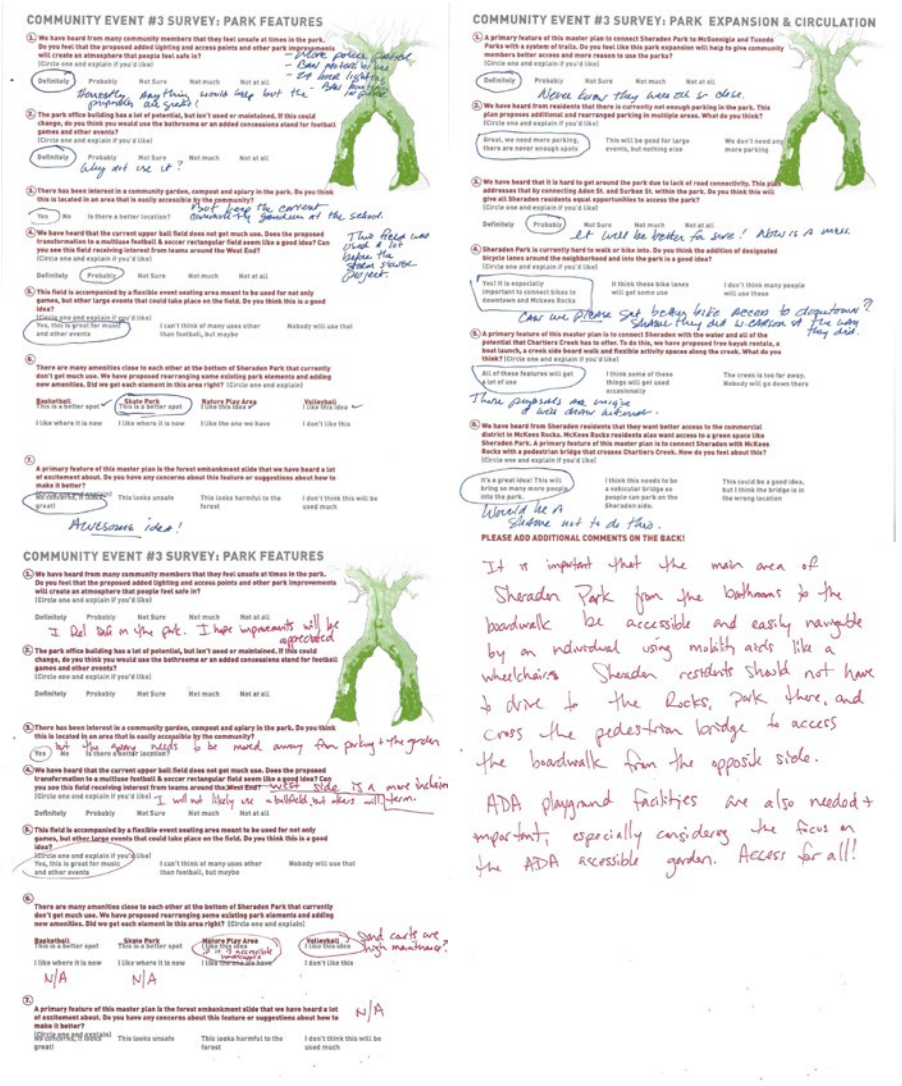
Flip-chart comments from Community Event 3

DRAFT MASTER PLAN SURVEYS

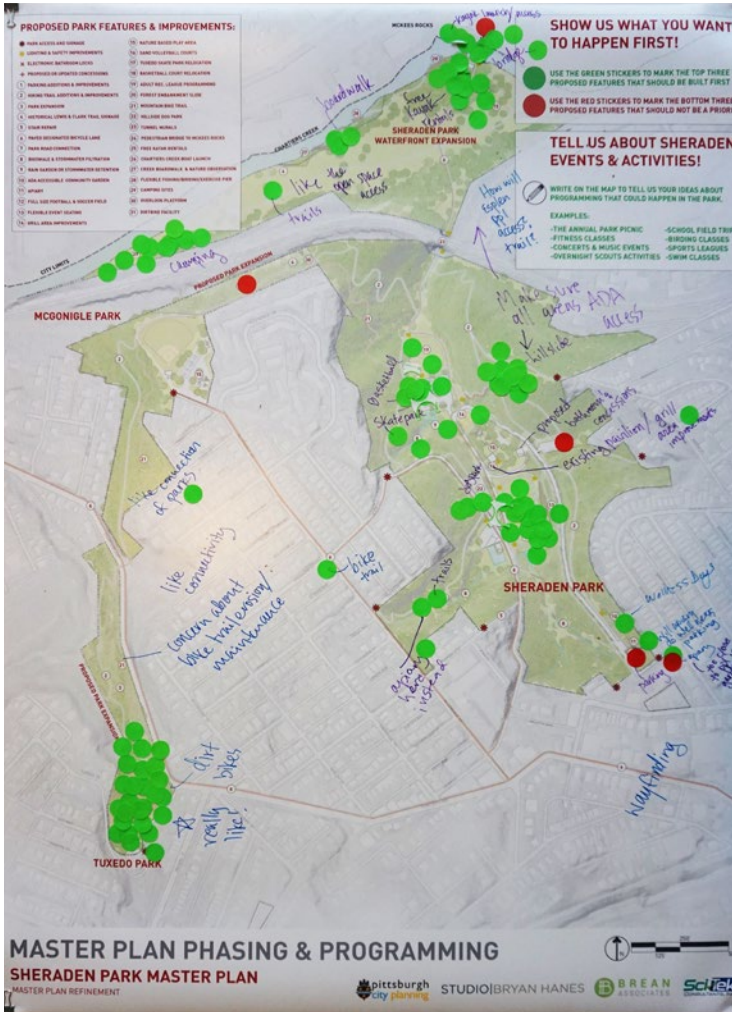
The Design Team also created a series of surveys to gather additional feedback from those who attended each community event. The surveys were found to be helpful during each phase of the master plan as a source of written documentation of ideas and opinions from community members. The Design Team found that over the course of meetings some attendees who may not feel as comfortable sharing thoughts verbally, were more likely to convey ideas and concerns in this format. The images to the right are examples of surveys generated for Community Event 3 and the written feedback that was received. Over the course of the first three community events, the Design Team received a total of 71 survey responses from event attendees. While they generally aligned with verbal feedback and responses produced from any interactive activities designed for each event, surveys did appear to allow attendees to express opinions more candidly and with more detail.

TOWARDS A FINAL PLAN

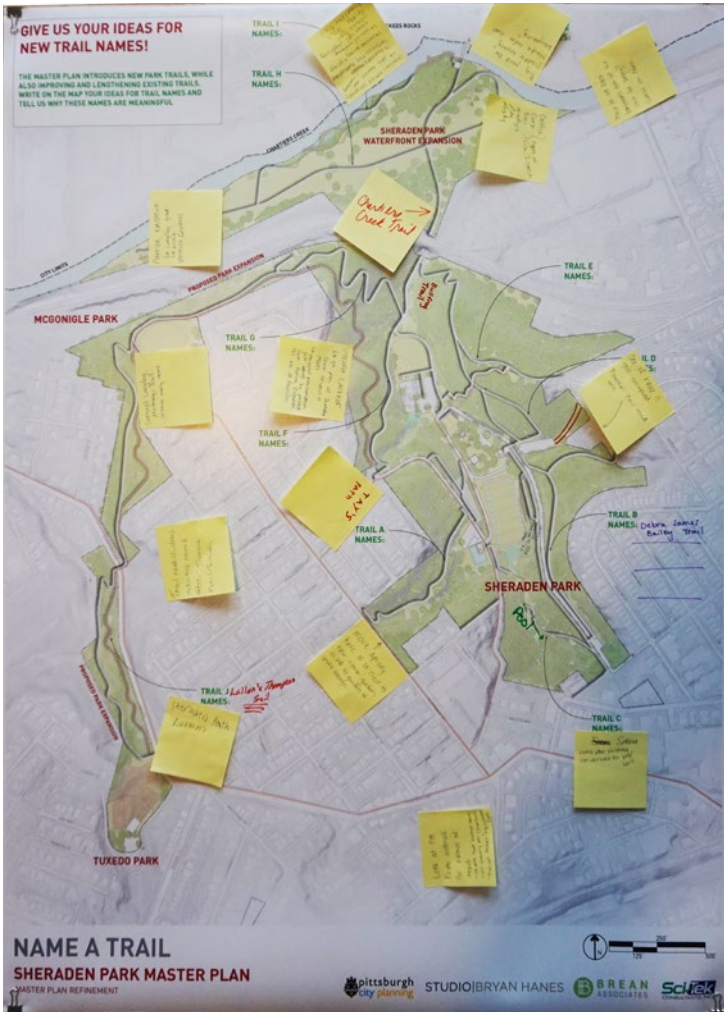
After conversations with the Department of City Planning and select members of the Steering Committee to review community event feedback, the Design Team began developing the final Sheraden Park Master Plan.



Community Event 3 survey response samples



Community Event 3 plan phasing exercise



Community Event 3 trail naming

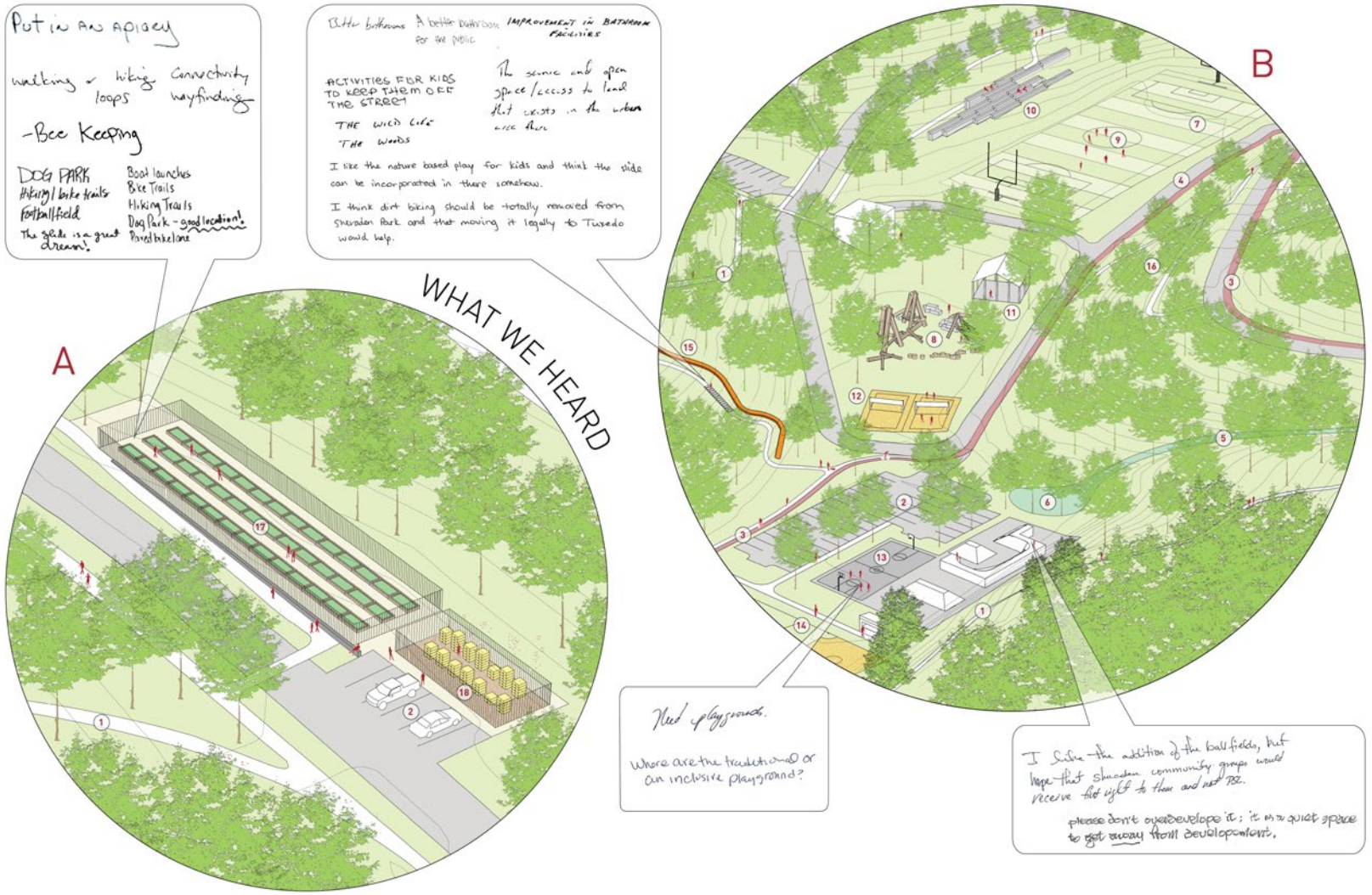
Community Event 3 Photos

DRAFT PLAN

1. Parking additions & improvements
2. Hiking trail additions & improvements
3. Park expansion
4. Historical Lewis & Clark trail signage
5. Stair repair
6. Paved designated bicycle lane
7. Park road connection
8. Bioswale & stormwater filtration
9. Rain garden or stormwater detention
10. ADA accessible community garden
11. Apiary
12. Full size football & soccer field
13. Flexible event seating
14. Grill area improvements
15. Nature based play area
16. Sand volleyball courts
17. Tuxedo skate park relocation
18. Basketball court relocation
19. Adult recreation league programming
20. Forest embankment slide
21. Mountain bike trail
22. Hillside dog park
23. Tunnel murals
24. Pedestrian bridge to McKees Rocks
25. Free kayak rentals
26. Chartiers Creek boat launch
27. Creek boardwalk & nature observation
28. Flexible fishing/birding/exercise pier
29. Camping sites
30. Overlook platform
31. Dirtbike facility

Precedents for site amenities shown in the Draft Master Plan.

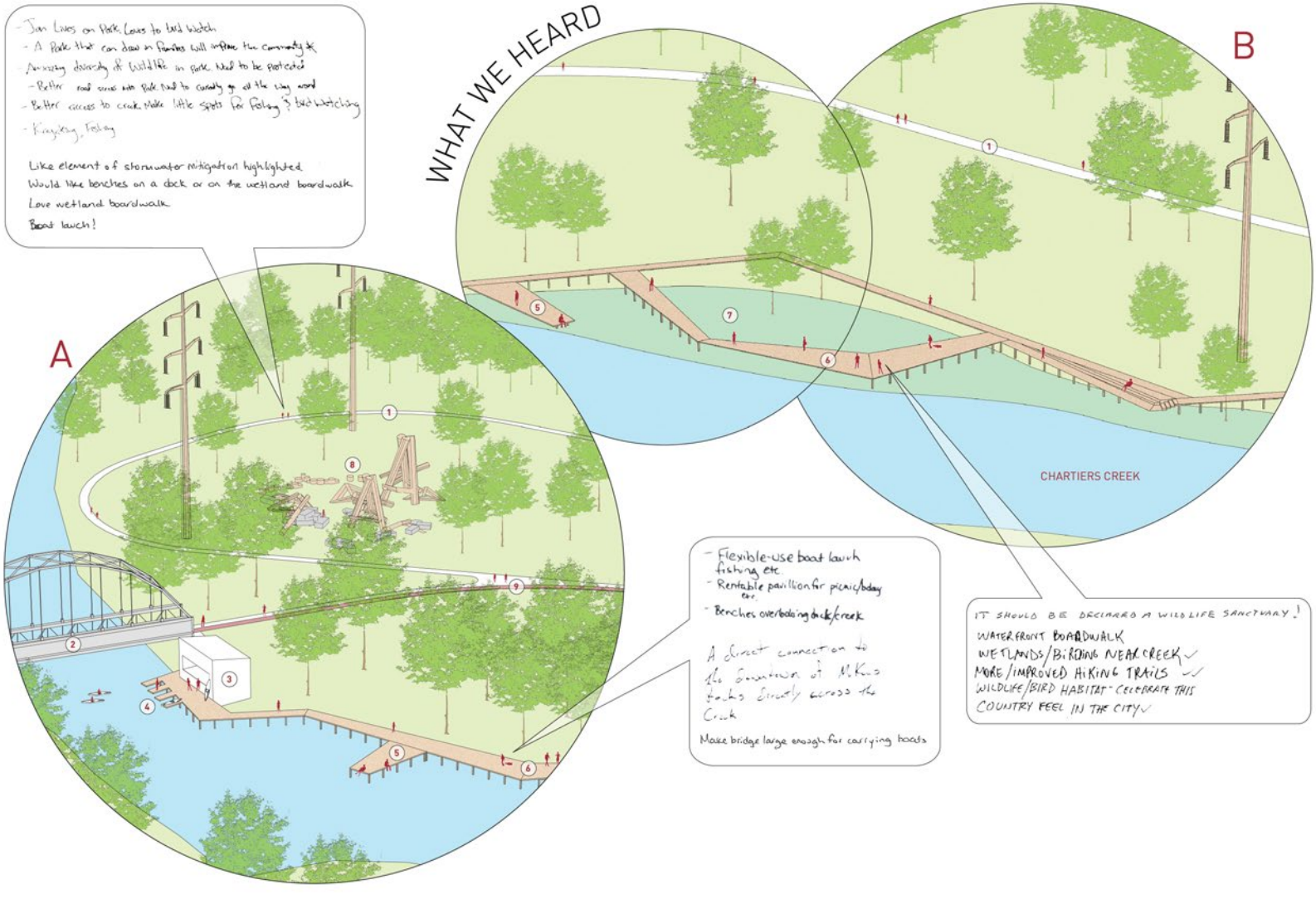
DRAFT PARK CORE IMPROVEMENTS



PROPOSED CORE IMPROVEMENTS:

1. HIKING TRAILS
2. PARKING ADDITIONS & IMPROVEMENTS
3. PAVED BICYCLE LANE
4. PARK ROAD CONNECTION
5. BIOSWALE & STORMWATER FILTRATION
6. RAIN GARDEN
7. STORMWATER DETENTION BASIN
8. NATURE BASED PLAY AREA
9. FULL SIZE FOOTBALL & SOCCER FIELD
10. FLEXIBLE EVENT SEATING
11. GRILL AREA IMPROVEMENTS
12. SAND VOLLEYBALL COURTS
13. BASKETBALL COURT RELOCATION
14. ADULT REC. LEAGUE PROGRAMMING
15. FOREST EMBANKMENT SLIDE
16. HILLSIDE DOG PARK
17. ADA ACCESSIBLE COMMUNITY GARDEN
18. APIARY

DRAFT WATERFRONT IMPROVEMENTS



PROPOSED WATERFRONT IMPROVEMENTS:

1. HIKING TRAILS
2. PEDESTRIAN BRIDGE TO MCKEES ROCKS
3. FREE KAYAK RENTALS
4. KAYAK / CANOE LAUNCH
5. FLEXIBLE FISHING / BIRDING / YOGA PIERS
6. CHARTIERS CREEK BOARDWALK
7. PROPOSED WETLAND
8. NATURE BASED PLAY AREA
9. PAVED DESIGNATED BICYCLE LANE

VII. FINAL PLAN

MASTER PLAN

The final Sheraden Park Master Plan is a thoughtful blend of prioritizing the park's ecology, improving access and park awareness, taking advantage of the park's unique topography, and dreaming up exciting new amenities, while making important baseline improvements. The most essential goal of the master plan is to guide the creation of a safe and healthy park in which residents and park stewards feel invested, involved, and inspired to work together. The final plan can be broken into the following series of components:

View of site topography model looking southwest towards the upper ball field

PROGRAM

- Circulation + Access
  - Park expansion
  - Paved designated bicycle lane
  - Park road connections
  - Pedestrian bridge to McKees Rocks
  - Parking additions & improvements
  - Hiking trail additions & improvements

- Facility Improvements
  - Rest area improvements
  - Park building upgrades
  - Pool building upgrades
  - Stair repair
  - Lighting & safety improvements
  - Tunnel murals
  - Grill area improvements

- Social + Educational Destinations
  - Lewis & Clark historical signage
  - ADA accessible community garden
  - Apiary
  - Flexible event seating
  - Wilderness education area
  - Hillside dog park

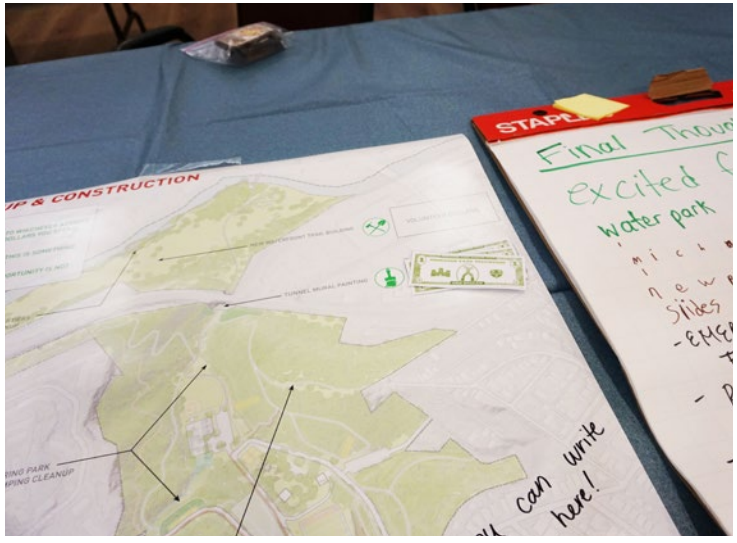
- Nature Based Recreation
  - Mountain bike trails
  - Kayak rentals
  - Creek boardwalk & nature observation
  - Flexible fishing / birding / exercise pier
  - Overlook platform

- Play + Organized Recreation
  - Full size football & soccer field
  - Sand volleyball courts
  - Basketball court relocation
  - Youth/Adult rec. league programming
  - Discovery garden play area
  - Tuxedo Park skate park relocation
  - Forest embankment slides
  - Chartiers Creek boat launch
  - Dirt bike facility

- Environment
  - Eroded slope stabilization
  - Invasive plant species management
  - Aquatic habitat protection & management
  - Rain garden / stormwater ponds
  - Subsurface detention

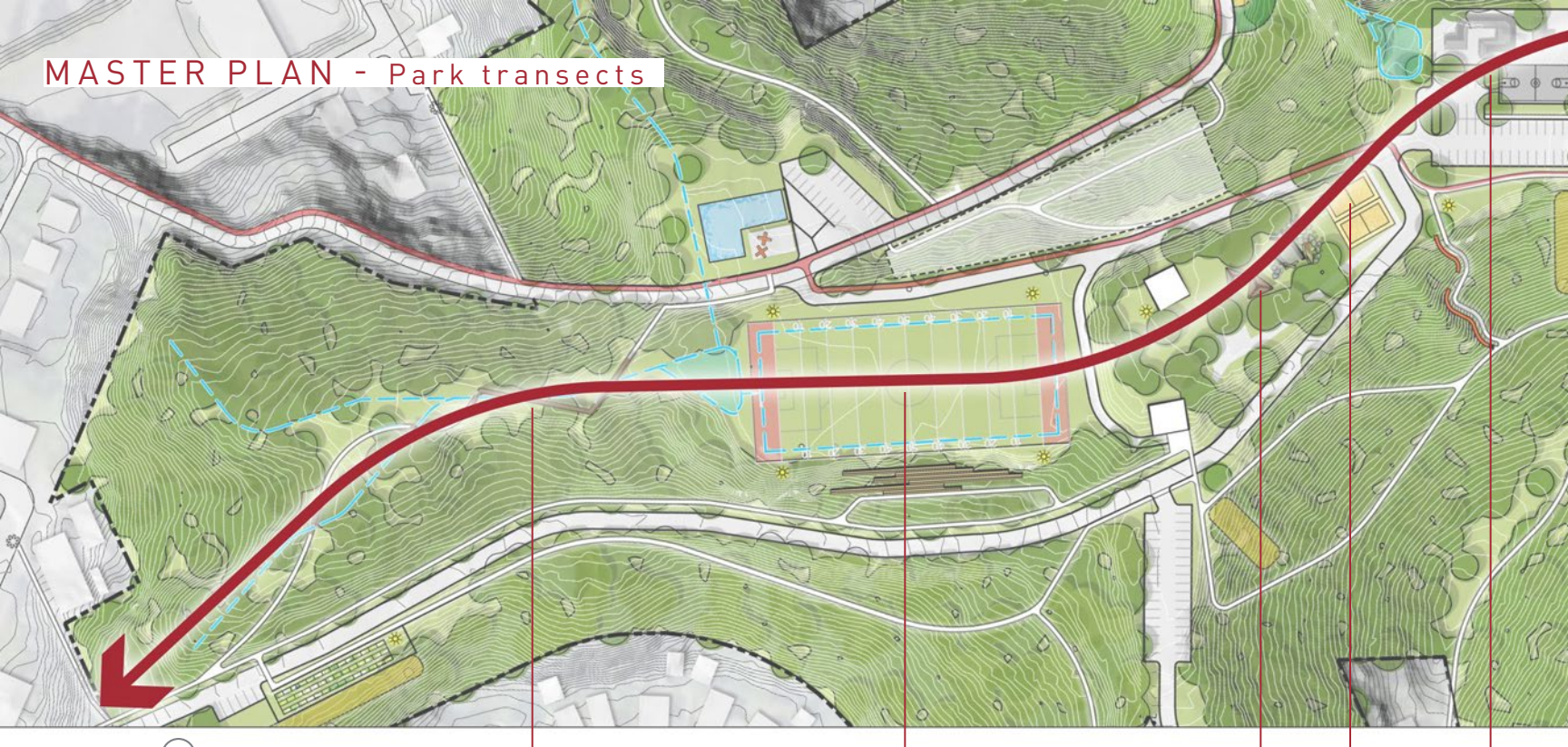
MASTER PLAN - Overview

1.	Youth/adult recreation league programming	Ongoing
2.	Park expansion	Ongoing
3.	Eroded slope stabilization	Ongoing
4.	Invasive plant species managements	Ongoing
5.	Aquatic habitat protection & management	Ongoing
6.	Hiking trail additions & improvements	Phase 1
7.	Tunnel murals	Phase 1
8.	Pool building upgrades	Phase 1
9.	Stair repair	Phase 1
10.	Hillside dog park	Phase 1
11.	Basketball court relocation	Phase 1
12.	Tuxedo Skate Park relocation	Phase 1
13.	Sand volleyball courts	Phase 1
14.	Subsurface detention	Phase 1
15.	ADA accessible community garden	Phase 1
16.	Grill area improvements	Phase 1
17.	Full size football & soccer field	Phase 2
18.	Flexible event seating	Phase 2
19.	Apiary	Phase 2
20.	Discovery garden play area	Phase 2
21.	Rain garden / stormwater ponds	Phase 2
22.	Bioswale	Phase 2
23.	Park road connections	Phase 2
24.	Parking additions & improvements	Phase 2
25.	Forest embankment slides	Phase 2
26.	Wilderness education area	Phase 2
27.	Paved designated bicycle lane	Phase 3
28.	Lewis & Clark historical signage	Phase 3
29.	Pedestrian bridge to McKees Rocks	Phase 3
30.	Kayak rentals	Phase 3
31.	Chartiers Creek boat launch	Phase 3
32.	Creek boardwalk & nature observation	Phase 3
33.	Flexible fishing / birding / exercise pier	Phase 3
34.	Mountain bike trail	Phase 3
35.	Overlook platform	Phase 3
36.	Dirt bike facility	Phase 3

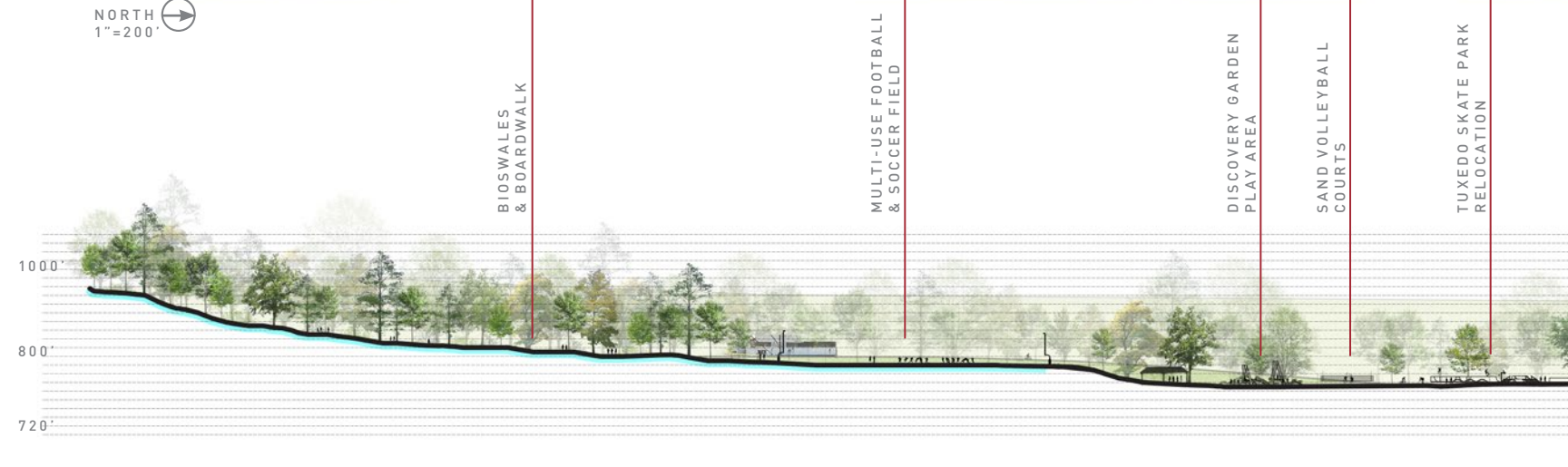


Community Event 4 Photos (master plan unveiling)

MASTER PLAN - Park transects

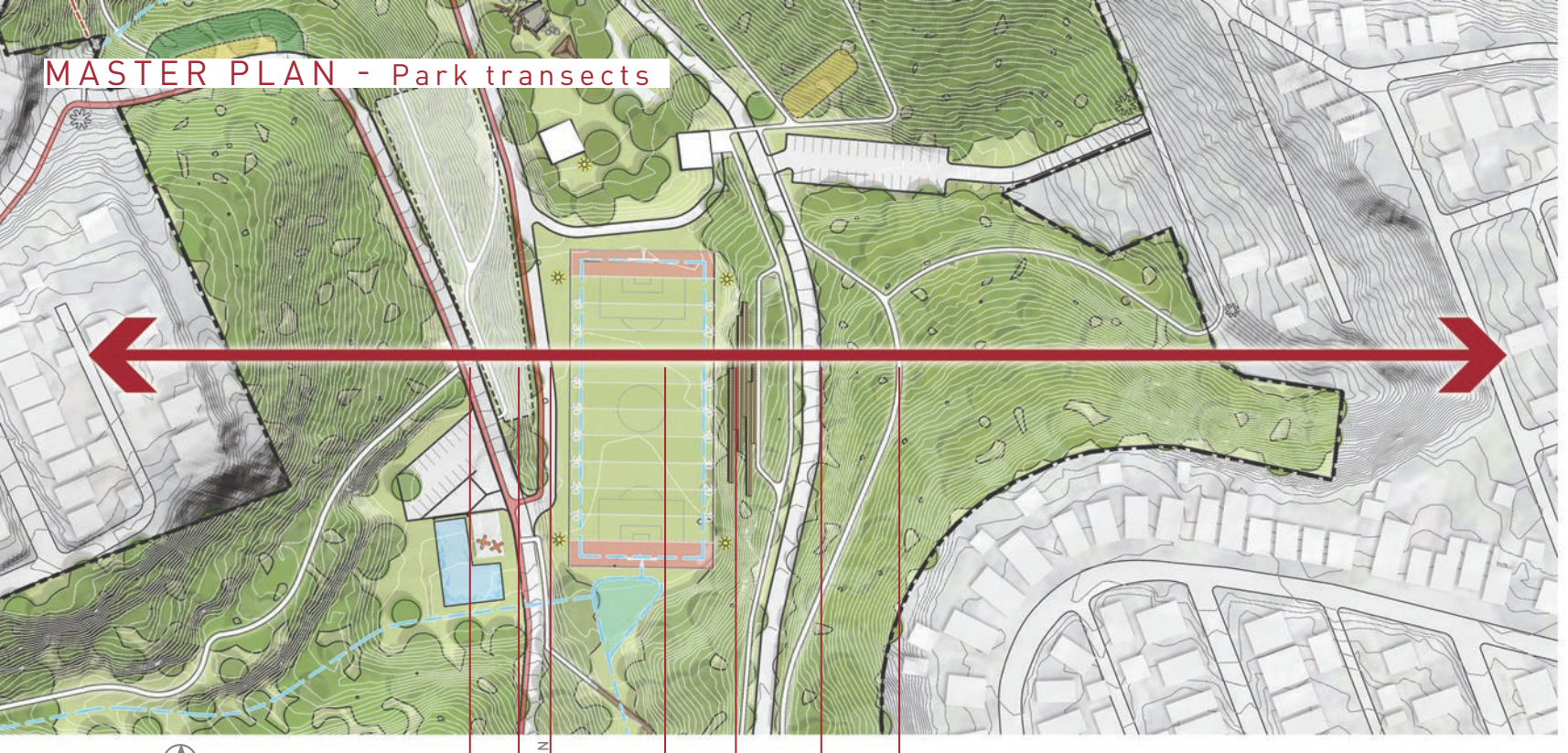


NORTH
1"=200'

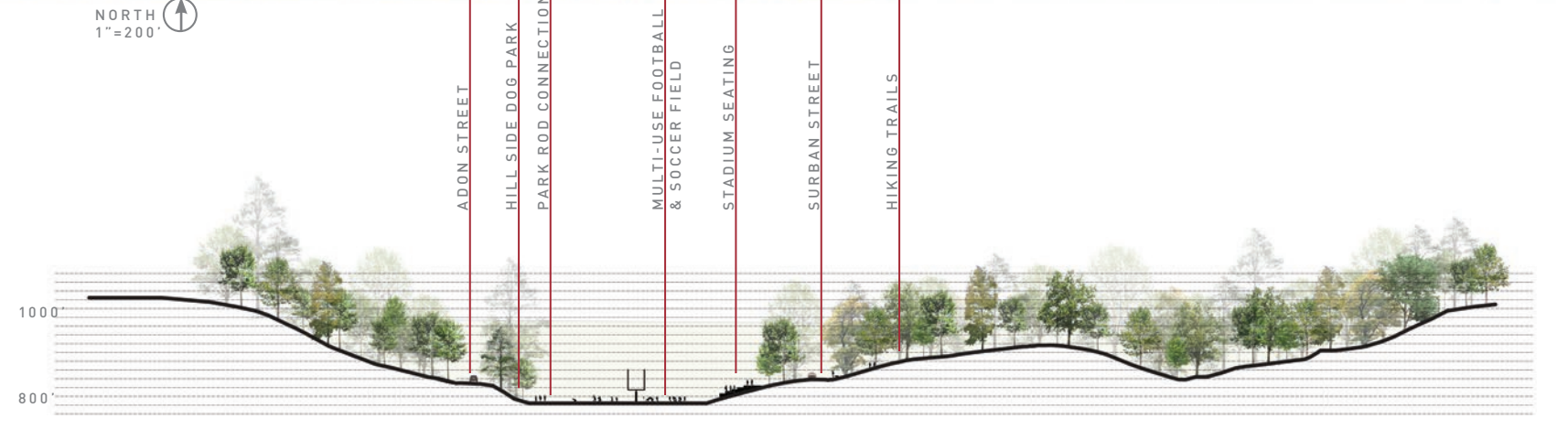



RECREATION LEAGUE PROGRAMMING
BIOSWALE
TUNNEL MURALS & LIGHTING IMPROVEMENTS
KAYAK RENTALS & BOAT LAUNCH
1000'
800'
720'

MASTER PLAN - Park transects



NORTH
1"=200'



MOUNTAIN BIKING TRAILS
HIKING TRAILS
TUXEDO SKATE PARK RELOCATION
BASKETBALL COURT RELOCATION
PARKING
HIKING TRAILS
HIKING TRAILS
1000'
800'

PROGRAM - Circulation + Access

OVERVIEW - VEHICULAR ACCESS + BICYCLE ACCESS + PARKING

(1) PAVED DESIGNATED BICYCLE LANE:

Dotted red lines on the plan represent paved bicycle lanes that extend through the base of Sheraden Park and connect across Chartiers Creek to the neighboring Mckees Rocks. Additional designated bicycle lanes are proposed throughout the Sheraden community in order to better connect to adjacent neighborhoods and even to downtown Pittsburgh.

(2) PARK ROAD CONNECTIONS:

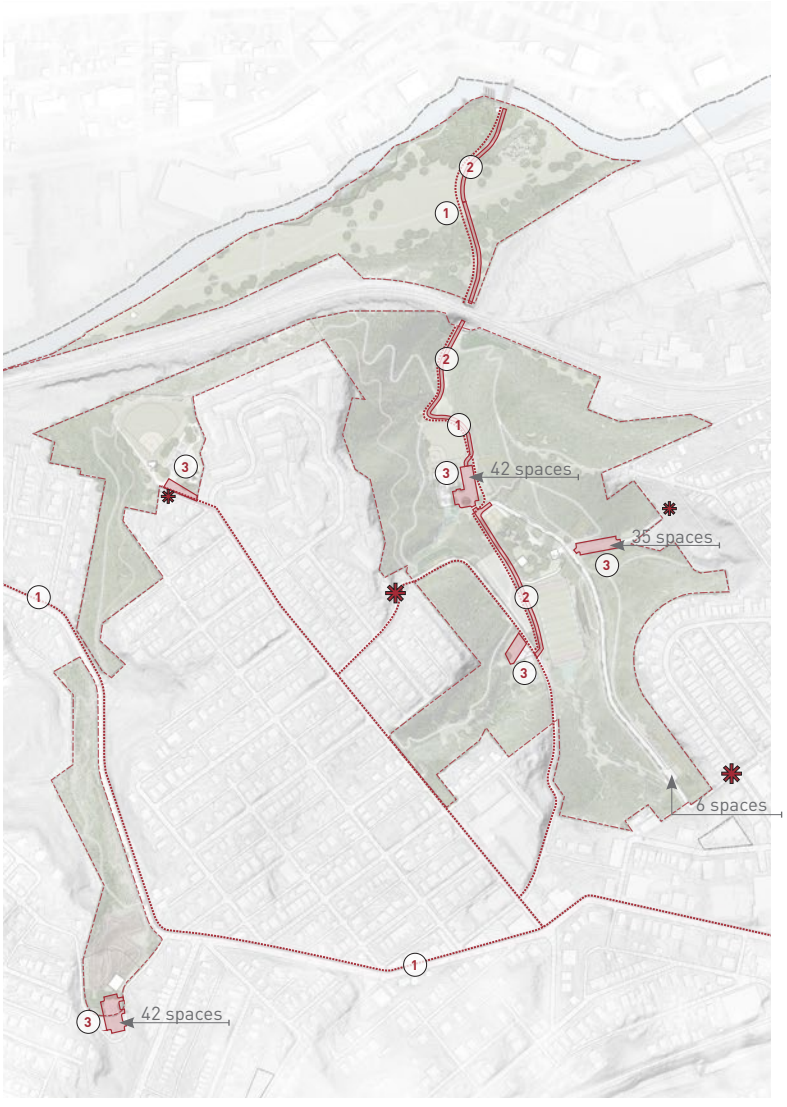
This plan proposes two areas of vehicular road expansion within Sheraden Park. The first proposes a short segment of road be added adjacent to the upper sports field, connecting Surban St. and Adon St. to improve park circulation and eliminate dead end roads. The second proposed road spans from the core parking area out to Chartiers Creek. This proposed road is intended to be used for emergency vehicles, park maintenance crews and third party vendors only.

(3) PARKING IMPROVEMENTS:

Existing Sheraden Park parking is informal and lacks capacity for any large events within the park. Parking improvements include repaving of asphalt in poor condition; reorientation of parking; and painted stall lines. These proposed improvements will make parking areas more efficient and build capacity for large event parking, while keeping additional asphalt paving to a minimum. In total, this plan reorganizes 83 parking spaces within Sheraden Park.

✱ PARK VEHICULAR ACCESS AND SIGNAGE

Vehicular or bicycle points of entry into Sheraden, McGonigle and Tuxedo Parks. Each access point will be accompanied by recently updated City of Pittsburgh standard park signage, easily visible from nearby streets. A new vehicular access point is proposed for Mengee St. in order to make the park more accessible to residents to the east of the park.



PROGRAM - Circulation + Access

OVERVIEW - PEDESTRIAN ACCESS + TRAIL ADDITIONS & IMPROVEMENTS

(1) PARK EXPANSION:

This plan proposes that Sheraden Park, McGonigle Park and Tuxedo Park are to be connected through the annexation of adjacent publicly owned and vacant land into the Pittsburgh Parks system. The selected parcels to be annexed have been strategically chosen in order to allow for a continuous trail system that links all three parks together, while minimizing the amount of additional land needing to be maintained by the Department of Public Works. An additional vacant parcel connecting the park to Mengee St is also proposed to be annexed into Sheraden Park.

(2) HIKING TRAIL ADDITIONS & IMPROVEMENTS:

This plan proposes a combination of both improved existing and new park hiking trails. Trails are intended to be maintained year round for hiking, dog walking, jogging and cross country skiing. Regular maintenance includes clearing debris and repairing possible eroded areas. Trails located in the amenity filled base of Sheraden park are proposed to be paved, while trails in wooded areas of the parks will not. The proposed Sheraden Park trail system will expand towards Chartiers Creek, as well as through McGonigle and Tuxedo Parks in order to create a longer network of trails throughout the community.

(3) PEDESTRIAN BRIDGE TO MCKEES ROCKS:

Indicates a proposed pedestrian and emergency vehicle bridge connecting the waterfront zone of Sheraden Park to the neighboring McKees Rocks community. The proposed bridge is strategically located in an area that will provide access to future planned McKees Rocks downtown development. This plan aims to couple Sheraden Park improvements nicely with future parking, retail and waterfront access on the McKees Rocks side of Chartiers Creek.

✱ PARK VEHICULAR ACCESS AND SIGNAGE:

Indicates walking points of entry into Sheraden, McGonigle and Tuxedo Parks. Larger icons indicate primary park access points. Each access point will be accompanied by recently updated City of Pittsburgh standard park signage, easily visible from nearby streets.

Current Condition


PROPOSED IMPROVEMENTS:
1 SAND VOLLEYBALL COURTS
2 DISCOVERY GARDEN PLAY
3 UPDATED REST AREA & CONCESSIONS
4 FOOD TRUCK PULL UP
1
2
3
4

PROGRAM - Facility Improvements

OVERVIEW - STRUCTURE IMPROVEMENTS

1 REST AREA IMPROVEMENTS:

Existing, locked and unused bathroom facilities within Sheraden and McGonigle Parks are to be equipped with automatic electronic locking mechanisms in future phases that will be unlocked in the morning and locked in the evening remotely. These systems are currently being used in other Pittsburgh parks and could be integrated into these park facilities as well. Bathroom facilities will be stocked and cleaned by park crews regularly and improvements such as vaulted or composting toilets will be considered as possibilities.

2 PARK BUILDING UPGRADES: POTENTIAL THIRD PARTY VENDOR

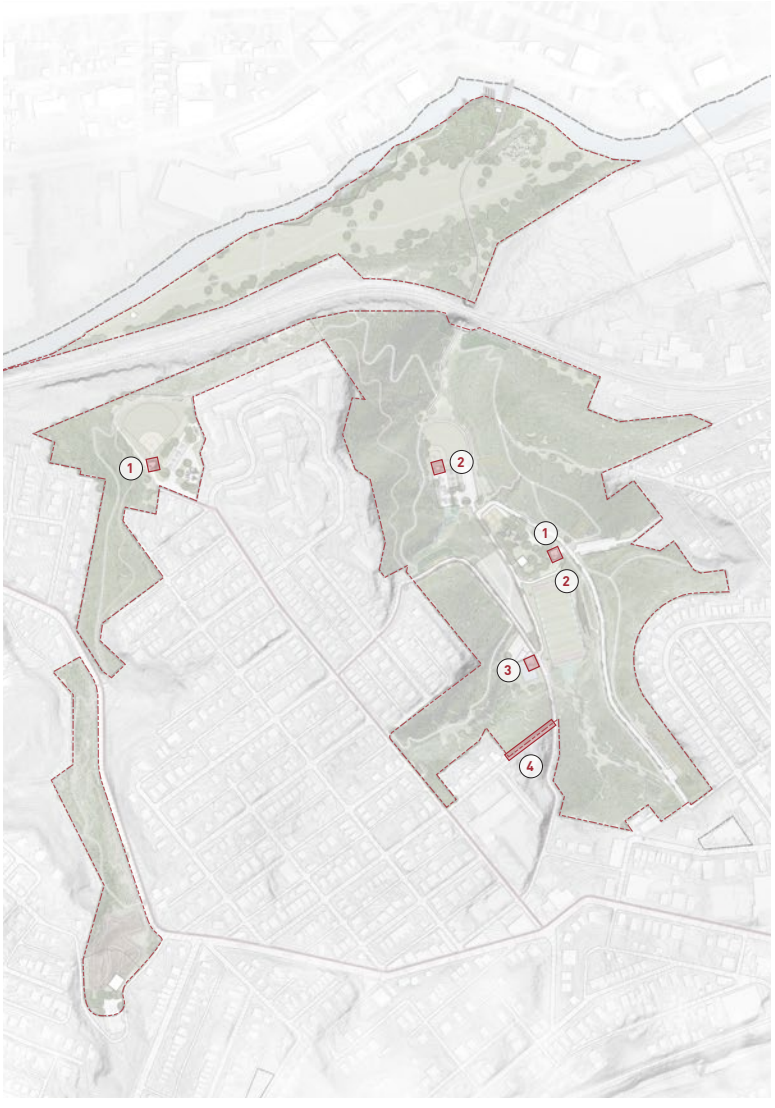
Proposes renovations to the existing park building including the creation of new park ranger offices and common space for community events and gathering. Renovations for future park concession to be open and serving during special park events and major sport events. The existing concessions stand at McGonigle Park is also proposed to re open during baseball games. Concessions will be operated by third party vendors. All revenue is proposed to be used for park maintenance and operations.

3 POOL BUILDING UPGRADES:

Indicates improvements to the pool shelter building including updated bathroom, locker room, drinking fountain and showering facilities.

4 STAIR REPAIR:

Indicates a public stair in need of repair. Sheraden Park contains two public stair cases, one of which could be a primary access point into the park if repaired. The stair adjacent to the park pool on Adon Street is currently in disrepair. This plan proposes restoring this stair into a usable and safe park entry once again.



PROGRAM - Facility Improvements

OVERVIEW - GENERAL IMPROVEMENTS

LIGHTING & SAFETY IMPROVEMENTS:

Indicates areas of low, safety level lighting to discourage illicit activities after park hours. New safety level light fixtures are proposed mainly within the low areas of the park near amenities and along the train tunnel. Improved stadium lighting is also proposed at the upper playing field for large sporting events.

1 TUNNEL MURALS:

To accompany proposed lighting improvements at the train tunnel that provides access to Chartiers Creek, this plan proposes a series of painted murals running the length of the tunnel interior. Local artists and volunteers will have an opportunity to paint inviting and contextually meaningful pieces of art that will help to draw more attention to the tunnel and create a more comfortable environment.

2 GRILL AREA IMPROVEMENTS:

Indicates improvements to the area beneath the Sheraden Park open air pavilion. Proposed improvements include new fixed picnic grills; improved drainage between the slope and pavilion; and canopy thinning to allow more sunlight and the ability to better grow grass.

PROGRAM - Social + Educational Destinations

OVERVIEW

1 LEWIS & CLARK HISTORICAL SIGNAGE & PROGRAMMING:

As the official starting point of the historic Lewis and Clark Trail, Brunots island is located just downstream of Sheraden Park and provides an opportunity for many unique educational events to take place within the park. Proposed signage and classes in canoing, cordeling, map making, orienteering, bird watching and plant identification can take place throughout the year to teach community members some of the skills necessary for the infamous Lewis and Clark expedition.

2 ADA ACCESSIBLE COMMUNITY GARDEN:

Indicates proposed raised community garden beds, mulch area and tool storage for community members wishing to sign up for a garden bed to grow fresh produce. The proposed community garden will share the site of historically significant Works Progress Administration Era masonry wall features that are to be protected and restored

3 APIARY:

Indicates bee keeping for honey producing bee species. The proposed apiary will be fenced and abide by the model ordinance for the keeping of honey bees in Pennsylvania municipalitiesand the Urban Agriculture section of the City of Pittsburgh Zoning Code

4 FLEXIBLE EVENT SEATING:

Indicates proposed terraced seating overlooking the upper sports field. This doubles as stadium seating for sporting events and amphitheater style seating for other special events that may occur in this flexible open space.

5 WILDERNESS EDUCATION AREA:

Located at the far western point of the lance shaped waterfront area of Sheraden Park, this indicates a series of proposed wilderness education sites able to be reserved by scouts and other outdoor groups.

6 HILLSIDE DOG PARK:

Indicates a proposed fenced in and gated area for community members to bring their dogs and let them off-leash to run and play. The dog park should be equipped with a drinking water area for the dogs as well as a bag dispenser and trash to clean up after the dogs. The Riverview Park dog park is an existing example to model.

PROGRAM - Nature Based Recreation

OVERVIEW

1 MOUNTAIN BIKE TRAILS:

Dotted red lines on the plan represent a proposed looping mountain bike trail that spans the three parks before connecting to the paved designated bicycle lane on the road and connecting back to Sheraden Park. This trail is intended to be for mountain bikes only and will incorporate signage to keep others off of the trail for safety.

2 KAYAK RENTALS: THIRD PARTY VENDOR

Proposes a kayak and canoe rental facility operated by a third party vendor on Chartiers Creek. This proposed rental facility will provide easy access to the water without needing to carry boats in from the nearest parking area.

3 CREEK BOARDWALK & NATURE OBSERVATION:

Indicates a proposed boardwalk paralleling the edge of Chartiers Creek. The proposed boardwalk will weave in and out of proposed creekside wetlands and aquatic habitat improvement areas as it provides multiple points for recreation, relaxation and nature observation along this quiet portion of Chartiers Creek.

4 FLEXIBLE FISHING / BIRDING / EXERCISE PIER:

Indicates a proposed creekside flexible pier to be used for fishing, birding exercise classes and other potential programming. This proposed pier is located adjacent to the boat launch and connection point to McKees Rocks, giving it opportunity to be utilized by various user groups.

5 OVERLOOK PLATFORM:

Indicates a proposed overlook platform at one of the highest areas in elevation within the park expansion. This overlook is placed to give sweeping views over Chartiers Creek and McKees Rocks and is one of the only opportunities within the three parks to capture long views.

Current Condition


PROPOSED IMPROVEMENTS:
1 CHARTIERS CREEK BOARDWALK
2 FLEXIBLE FISHING / BIRDING / EXERCISE PIER
3 KAYAK & CANOE LAUNCH
4 KAYAK & CANOE RENTALS
5 PEDESTRIAN BRIDGE TO MCKEES ROCKS
6 NATIVE WETLAND PLANTINGS
1
2
3
4
5
6

Current Condition

PROPOSED IMPROVEMENTS:

1. OVERLOOK PLATFORM
2. HIKING TRAILS
3. NATIVE PLANTING RESTORATION

PROGRAM - Play + Organized Recreation

OVERVIEW - TEAM SPORTS

1 FULL SIZE FOOTBALL & SOCCER FIELD:

Indicates the proposed transformation of the underused upper ball field into a multi-use football and soccer field complete with goal posts and improved stadium lighting. This space can also serve as flexible event space for future events such as concerts and performances. Aging and wearing fence and bleachers associated with the current ball field set up are to be removed and new lines are to be regularly painted indicating new intent of use.

2 SAND VOLLEYBALL COURTS:

Indicates new proposed sand volleyball in place of the relocated basketball courts. Sand volleyball courts are expected to be used by both community members and Pittsburgh sports leagues in an effort to generate park activity and usership.

3 BASKETBALL COURT RELOCATION:

Indicates the proposed relocation of the existing basketball court for spatial efficiency and proximity to similar amenities in an effort to consolidate and minimize additional paved areas.

4 YOUTH / ADULT REC. LEAGUE PROGRAMMING:

Proposes the existing lower ball field to be used primarily as a venue for youth recreation league and adult league softball events. This provides potential opportunities for concessions and finds a unique use for the under-used field.

PROGRAM - Play + Organized Recreation

OVERVIEW- PLAY & RECREATION

1 DISCOVERY GARDEN PLAY AREA:

Indicates proposed play area improvements and replacement of old and damaged off the shelf plastic equipment with new play features that better relate to the wooded and natural environment of Sheraden Park. A new waterfront play area will utilize proposed berms and hills to stay above the floodplain and resilient to future storm events.

2 TUXEDO PARK SKATE PARK RELOCATION:

Indicates the proposed relocation of the existing skate park from its current location in Tuxedo Park to the location of the existing defunct tennis courts. The consolidation of this amenity with other park features could lead to heavier use and more efficient maintenance.

3 FOREST EMBANKMENT SLIDES:

Indicates a series of proposed embankment slides that utilize the natural topography of Sheraden Park. The slides run one after another in a continuous series that lead down the eastern slope of the park. The slides are proposed to be gently situated within the wooded hillside and be minimally invasive to the plant communities and root systems around them.

4 CHARTIERS CREEK BOAT LAUNCH:

Indicates a proposed ADA accessible boat launch for non-motorized kayaks and canoes adjacent to the proposed rental facility. This proposed boat launch will incorporate a series of floating finger docks and gangways designed to be flexible during flooding and storm events. These launches will provide easy drop in and pull out.

5 DIRT BIKE FACILITY: THIRD PARTY VENDOR

Located in Tuxedo Park, in the area of the relocated skate park, This proposed dirt bike facility will be operated by a third party vendor and provide an official and safe environment for community members and other Pittsburgh residents to learn to responsibly ride motorized dirt bikes. The proposed facility will rent motorized bikes on site and be fenced in to prohibit dirt bikes from leaving the official riding zone. The proposed facility is located to keep noise levels low and away from as many homes in the community as possible, while also keeping dirt bikes away from the more quiet and contemplative features of Sheraden Park.

Current Condition

PROPOSED IMPROVEMENTS:

1. SKATE PARK RELOCATION & IMPROVEMENTS
2. BASKETBALL COURT RELOCATION & IMPROVEMENTS
3. RAIN GARDEN

PROGRAM - Environment

OVERVIEW - PLANTS & SOIL

(1) ERODED SLOPE STABILIZATION:

Erosion issues are apparent in Sheraden Park behind Ashlyn Street. as well as along the edge of the road at the park entrance on Adon Street. Some existing steep park trails are also experiencing erosion due to lack of understory. Slope stabilization in these areas is proposed for safety as well as plant community health. Proposed stabilization techniques include planting trees and other native vegetation to build a root system that is able to hold soil in place.

(2) INVASIVE PLANT SPECIES MANAGEMENT:

There is a range of healthy native plant communities as well as dominant invasive plant zones within Sheraden Park. Among the most problematic areas to be addressed are major zones dominated by the invasive Japanese Knotweed. This plant is highly abundant within Sheraden Park along the train tracks, as well as along the entrance at Adon Street. These zones are proposed to be managed through regular cutting and smothering of soil in the spring to prevent new shoots from spreading.

(3) AQUATIC HABITAT PROTECTION & MANAGEMENT:

Recently completed work done by ALCOSAN and the Army Corps or Engineers has removed invasive plant species and created aquatic habitat in the form of wetlands and vernal pools along Chartiers Creek. This plan proposes the continued protection and enjoyment of these areas. Proposed trails will be carefully built around new habitat and human foot traffic off of official trails will be strongly discouraged with proposed educational signage informing park patrons of the importance of this habitat.

PROGRAM - Environment

OVERVIEW- STORMWATER

RAIN GARDEN / STORMWATER PONDS:

Sheraden Park presents an opportunity to manage a large portion of the City's C-07 and C-11 sewersheds within park limits. The park is formed like a bowl and has multiple natural swales that feed water from the neighborhood above into the park and eventually out to Chartiers Creek. Recent work done by ALCOSAN and the Army Corps of Engineers has managed to daylight an existing stream and decouple combined storm and sanitary sewers, but there are still opportunities to manage stormwater in Sheraden Park. This plan proposes taking advantage of natural swales to create bioswales, stormwater ponds and rain gardens that will help to filter, infiltrate and slow water as it moves towards Chartiers Creek.

SUBSURFACE DETENTION:

The upper sports field also creates an opportunity to manage stormwater. This large flat area is proposed to be used for subsurface detention beneath the playing surface in order to detain and slowly release water during storm events.

Current Condition


PROPOSED IMPROVEMENTS:
1 FOREST EMBANKMENT SLIDES
2 HIKING TRAILS
3 HEALTHY NATIVE FOREST
1
2
3

EMBANKMENT SLIDE STUDY

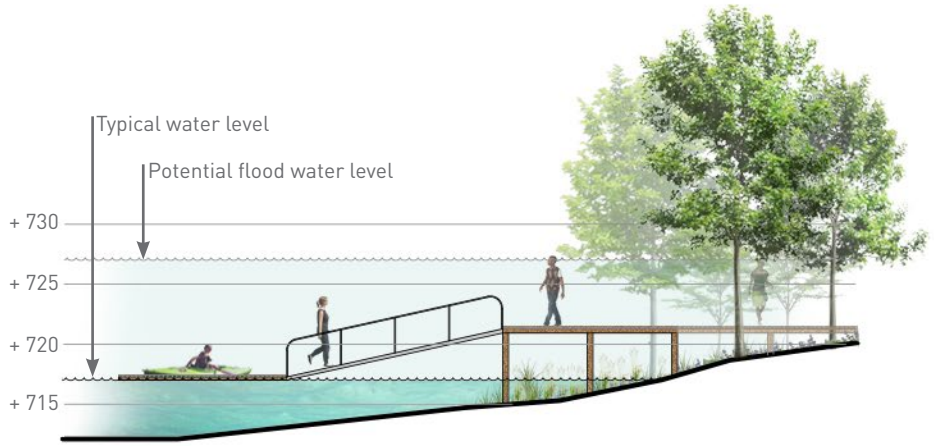
According to the CPSC Playground Safety Handbook and ASTM F1487-11, an embankment slide should be designed to an average angle of 30 degrees and it must not exceed 50 degrees at any point. Although quite steep, the natural slope of Sheraden Park's hillsides is in areas not sharp enough for an embankment slide. This requires the beginning portion of the slide to be slightly elevated in order to gain initial speed as well to increase the average slope of the entire slide.

Embankment slide elevation Scale: 1/16" = 1'-0"

BOAT LAUNCH STUDY

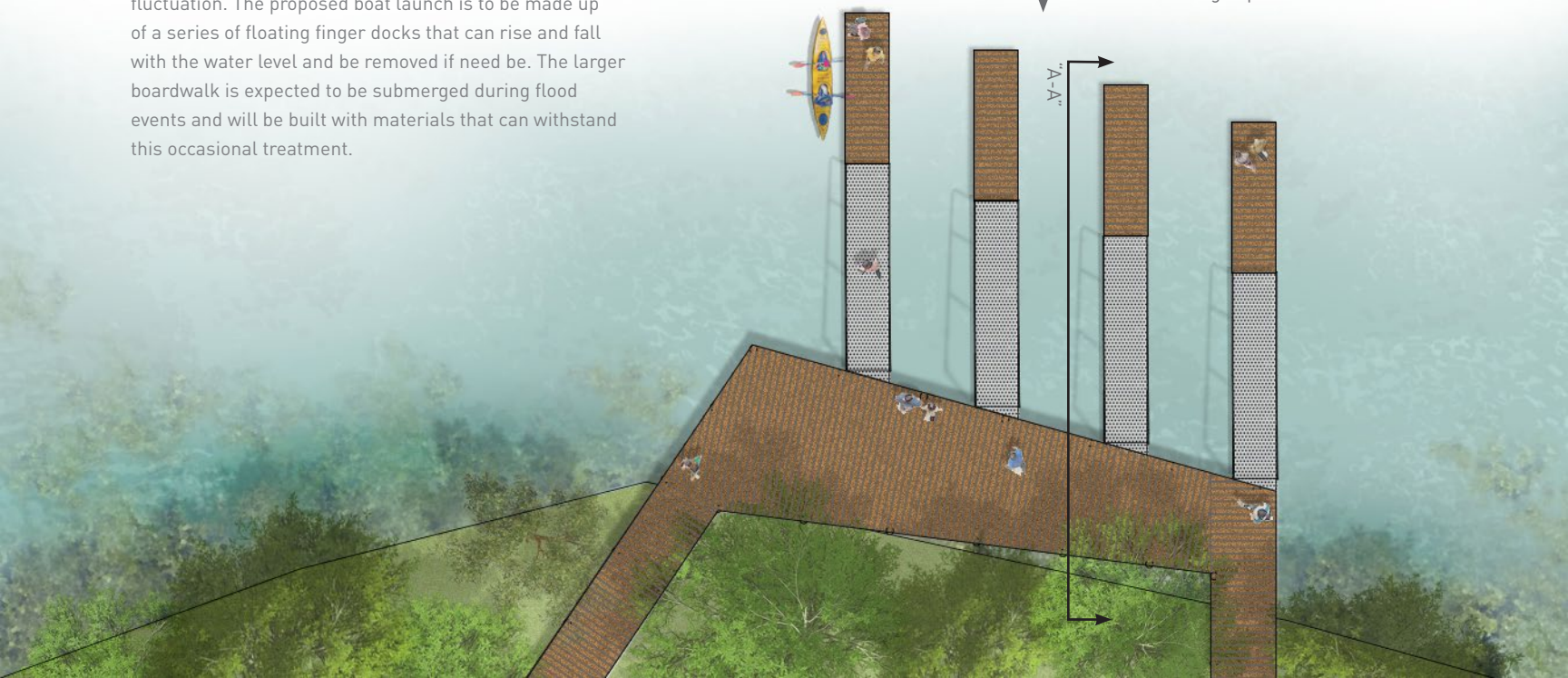
The most recent waterfront addition to Sheraden Park lies almost entirely within a FEMA designated floodplain. This flat, lance head shaped park expansion has the potential to be completely submerged during major storm events when Chartiers Creek can fluctuate up to 10 feet in water level.

While the majority of Sheraden Park sits at a higher elevation and is not prone to this sort of flooding, any improvements to this 21 acre section of the park must be carefully planned and proven to be resilient in the face of more consistent and severe flooding. The elevation to the right provides a visual depiction of this water level fluctuation. The proposed boat launch is to be made up of a series of floating finger docks that can rise and fall with the water level and be removed if need be. The larger boardwalk is expected to be submerged during flood events and will be built with materials that can withstand this occasional treatment.



Boat launch elevation "A-A" Scale: 1/16" = 1'-0"

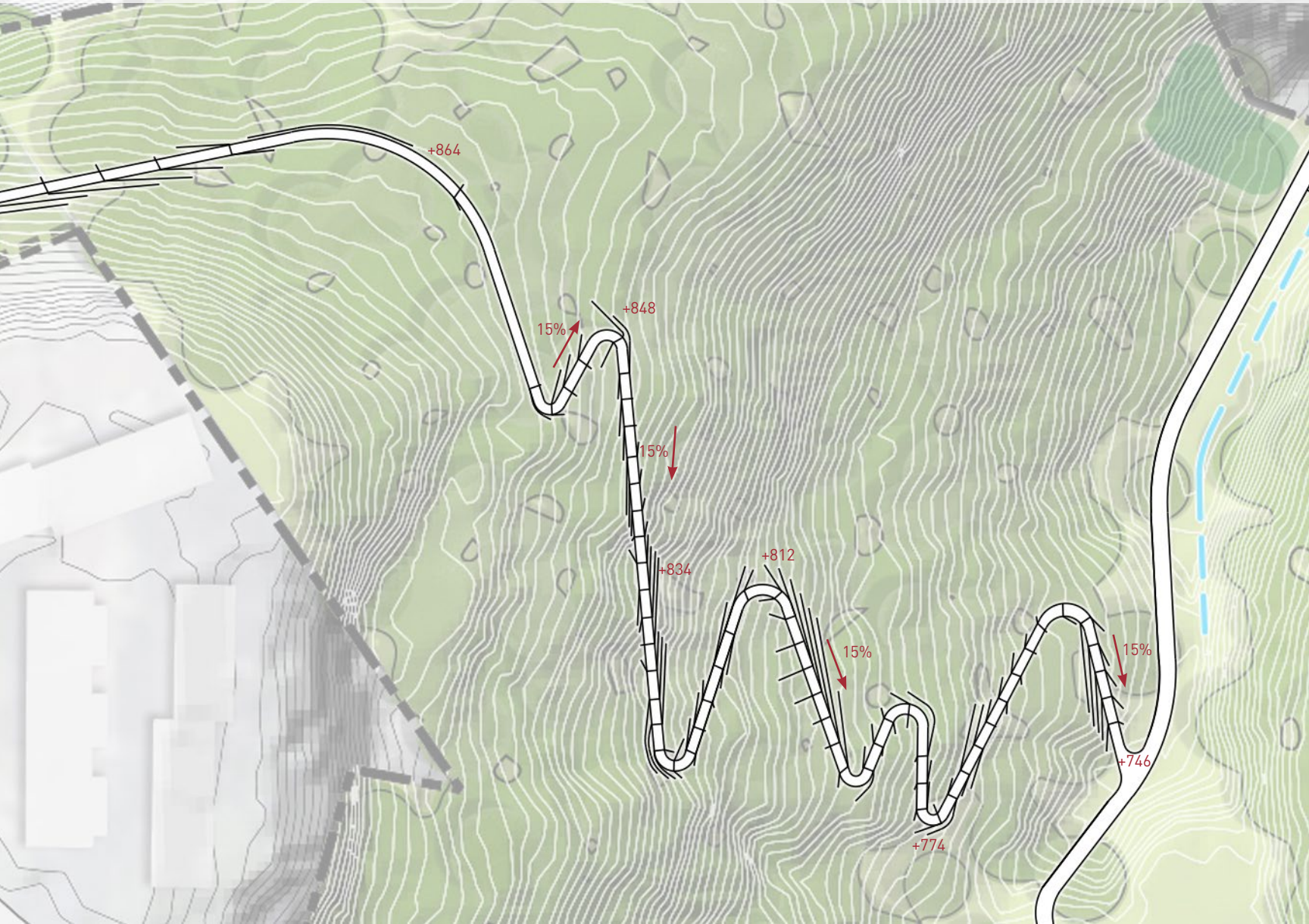
Boat launch enlarged plan Scale: 1/16" = 1'-0"



HIKING TRAIL GRADING STUDY

One of the more intensive trail additions called for in this master plan is the hiking trail connection between Sheraden and McGonigle Park. In order to connect the two parks, the steep western edge of Sheraden Park must be traversed in order to reach the higher elevation of McGonigle Park. This plan proposes a hiking trail that utilizes a consistent 15% slope with a series of steps interspersed in some of the steepest areas. This slope will be enough to climb the hill side at a mildly challenging grade, while limiting potential erosion issues that many steep trails are often prone to. Building a trail at this grade would also limit the amount of necessary earthwork and disturbance to existing tree canopy and vegetation.

Hiking trail enlarged plan scale: 1" = 70'


+864
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15%
+774
+746

28 FLEXIBLE FISHING/BIRDING/EXERCISE PIER
29 CAMPING SITES
30 OVERLOOK PLATFORM
31 DIRTBIKE FACILITY
WRITE ON THE MAP TO TELL US YOUR IDEAS ABOUT PROGRAMMING THAT COULD HAPPEN IN THE PARK.
EXAMPLES:
-THE ANNUAL PARK PICNIC
-FITNESS CLASSES
-CONCERTS & MUSIC EVENTS
-OVERNIGHT SCOUTS ACTIVITIES
-SWIM CLASSES
PROPOSED PARK EXPANSION
SHERADEN PARK
trails
Camping
How will Esplen ppl access trails?
Make sure all areas ADA access
hillslide
Basketball
Skatepark
proposed bathroom & concessions
existing pavilion / grill area improvements
dog park
like connection of parks
like connectivity
concern about bike trail erosion/maintenance
bike trail
trails
Wellness Days

VIII. IMPLEMENTATION

ROLES AND RESPONSIBILITIES

CITY OF PITTSBURGH

The Department of City Planning in collaboration with the Department of Public Works will work through the implementation of this Master Plan: deciding which projects to implement, seeking funding, and coordinating fundraising efforts and park work by other groups. These organizations also have the responsibility for maintaining an ongoing relationship with the people who gave time and input throughout this process. Project communication should continue through the implementation phases.

- The Pittsburgh Water and Sewer Authority (PWSA) manages the design and construction of green infrastructure (GI) in the park, including operations and maintenance.
- The Department of Public Works manages the (non-GI) design and construction projects in the park and sometimes performs construction. DPW is also responsible for maintaining the park, including forestry. They issue permits for volunteers to perform work in the park.
- CitiParks handles recreation programming.
- The Office of Management and Budget is responsible for securing funding through the City budget and grant sources.

IMPLEMENTATION COMMITTEE

To coordinate implementation work between the City and park partners, DCP and DPW will create a Sheraden Park Master Plan Implementation Committee. The committee will include representatives from each of the adjacent neighborhoods as well as PWSA and non-profit organizations. The goals of the committee will be to provide regular updates about the progress made in implementing the plan, encourage continued communication between different groups working in the park, and facilitate and coordinate funding efforts.

VOLUNTEERS

The Sheraden Community Council and Kiwanis Club have in the past organized various volunteer events such as park clean ups before annual park picnics and Easter egg hunts. The Department of City Planning will look to these neighborhood organizations to take a leadership role in the community and help to stimulate continued support, stewardship and volunteer efforts in the park. The park build out phasing identified in this plan also indicates potential ongoing and phased park improvements that could be led by volunteer efforts.

In addition to identifying park champions, the incorporation of Pittsburgh Park Conservancy Volunteer Programs such as Corporate School & Community Days, Garden Buds and Urban Ecostewards could be criticalto the continued success of Sheraden Park volunteer efforts.

POTENTIAL & CURRENT PARK PARTNERS

Pittsburgh is rich in potential partners for Sheraden Park. We have identified some groups that are already well connected to the park along with others that could potentially be involved. Additionally, there are various new ways longstanding park supporters could be willing to provide assistance, either through funding, providing expertise, or making in-kind donations. Current and potential partners include:

Pittsburgh Parks Conservancy (PPC)
Urban Redevelopment Authority (URA)
Local Universities & Pittsburgh Public Schools
Sheraden Community Council
Sheraden Kiwanis Club
United States Army Corps of Engineers
ALCOSAN
SW Pittsburgh CDC
McKees Rocks CDC
Friends of West Side Parks
Sheraden Baseball
American Legion
Jasmine Nyree Homes, Inc.
Venture Outdoors, REI
Pittsburgh Sports League
Hurricanes football
Western Pennsylvania Conservancy (WPC)
Pittsburgh Cares
Penn State Cooperative Extension, Audubon, Treevitalize, Tree Pittsburgh, Grow Pittsburgh
BikePGH, Outward Bound

PHASING - Amenity Priority Matrix

QUICK WIN PROJECTS

PROPOSED PARK FEATURES & IMPROVEMENTS:	COST EFFECTIVE	SHORT PERMITTING & EXECUTION TIME	HIGHLY DESIRED BY COMMUNITY MEMBERS	NOT CONTINGENT ON OTHER PARK WORK	CAN UTILIZE VOLUNTEER WORK
PARK ACCESS AND SIGNAGE:	○	○	○	○	
LIGHTING & SAFETY IMPROVEMENTS:			○		
REST AREA IMPROVEMENTS:	○	○	○	○	
PARK BUILDING UPDATES OR CONCESSIONS:	○	○	○	○	
PARKING ADDITIONS AND IMPROVEMENTS:				○	
HIKING TRAIL ADDITIONS & IMPROVEMENTS: ONGOING	○	○	○	○	○
ERODED SLOPE STABILIZATION: ONGOING	○				○
INVASIVE PLANT SPECIES MANAGEMENT: ONGOING	○			○	○
AQUATIC HABITAT PROTECTION & MANAGEMENT: ONGOING	○	○		○	○
PARK EXPANSION:	○	○	○	○	
LEWIS AND CLARK HISTORICAL SIGNAGE & PROGRAMMING:	○	○			
POOL BUILDING UPGRADES:				○	
STAIR REPAIR:				○	
PAVED DESIGNATED BICYCLE LANE:			○		
PARK ROAD CONNECTIONS:			○	○	
STORMWATER MANAGEMENT:					
ADA ACCESSIBLE COMMUNITY GARDEN:	○	○		○	○
APIARY:	○			○	
FULL SIZE FOOTBALL & SOCCER FIELD:	○		○		

PROPOSED PARK FEATURES & IMPROVEMENTS:	COST EFFECTIVE	SHORT PERMITTING & EXECUTION TIME	HIGHLY DESIRED BY COMMUNITY MEMBERS	NOT CONTINGENT ON OTHER PARK WORK	CAN UTILIZE VOLUNTEER WORK
FLEXIBLE EVENT SEATING:					
GRILL AREA IMPROVEMENTS:	○	○	○	○	○
DISCOVERY GARDEN PLAY AREA:			○		
SAND VOLLEYBALL COURTS:	○	○			
TUXEDO SKATE PARK RELOCATION:	○	○			
BASKETBALL COURT RELOCATION:					
YOUTH/ADULT REC. LEAGUE PROGRAMMING:	○			○	○
FOREST EMBANKMENT SLIDES:			○		
MOUNTAIN BIKE TRAIL:					
HILLSIDE DOG PARK:		○		○	○
TUNNEL MURALS:	○	○	○	○	○
PEDESTRIAN BRIDGE TO MCKEES ROCKS:			○		
KAYAK RENTALS: THIRD PARTY OPERATOR			○		
CHARTIERS CREEK BOAT LAUNCH:			○		○
CREEK BOARDWALK & NATURE OBSERVATION:			○	○	○
FLEXIBLE FISHING/BIRDING/EXERCISE PIER:			○	○	○
WILDERNESS EDUCATION AREA:	○				○
OVERLOOK PLATFORM:					
DIRT BIKE FACILITY: THIRD PARTY OPERATOR			○	○	

Ongoing & Standalone Projects & Activities

- ✱ PARK ACCESS & SIGNAGE IMPROVEMENTS
- (1) EXISTING HIKING TRAIL IMPROVEMENTS
- (2) ERODED SLOPE STABILIZATION:
- (3) INVASIVE PLANT SPECIES MANAGEMENT:
- (4) PARK EXPANSION
- (5) AQUATIC HABITAT PROTECTION & MANAGEMENT
- (6) ADULT/YOUTH REC LEAGUE PROGRAMMING

PHASE 1- Access & Gathering

- LIGHTING & SAFETY IMPROVEMENTS
- (1) REST AREA IMPROVEMENTS
- (2) PARK BUILDING UPDATES / CONCESSIONS
- (3) GRILL AREA IMPROVEMENTS
- (4) HIKING TRAIL ADDITIONS
- (5) STAIR REPAIR
- (6) ADA ACCESSIBLE COMMUNITY GARDEN
- (7) DISCOVERY GARDEN PLAY AREAS
- (8) HILLSIDE DOG PARK
- (9) POOL BUILDING UPGRADES
- (10) SAND VOLLEYBALL COURTS
- (11) BASKETBALL COURT RELOCATION
- (12) TUXEDO SKATE PARK RELOCATION

PHASE 2 - Active Recreation Amenities & Circulation

1. BIOSWALES
2. RAIN GARDENS / STORMWATER PONDS
3. SUBSURFACE DETENTION
4. FULL SIZE FOOTBALL & SOCCER FIELD
5. FLEXIBLE EVENT SEATING
6. FOREST EMBANKMENT SLIDES
7. PARK ROAD CONNECTIONS
8. PARKING ADDITIONS & IMPROVEMENTS
9. APIARY
10. WILDERNESS EDUCATION AREA

PHASE 3- Long Term Projects

1. PAVED DESIGNATED BICYCLE LANE
2. MOUNTAIN BIKE TRAIL
3. PEDESTRIAN BRIDGE TO MCKEES ROCKS
4. KAYAK RENTALS
5. CHARTIERS CREEK BOAT LAUNCH
6. CREEK BOARDWALK & NATURE OBSERVATION
7. FLEXIBLE FISHING / BIRDING / EXERCISE PIER
8. LEWIS & CLARK HISTORICAL SIGNAGE & PROGRAMMING
9. DIRT BIKE FACILITY
10. OVERLOOK PLATFORM

FUNDING

OVERVIEW

There are various funding streams available for Master Plan implementation. Some projects like ball field improvements, parking lot construction, and building renovations are items regularly funded in other parks by the City's annual budget.

Green infrastructure work may be funded in part or entirely by PWSA, supplemented with grant funding, or funded by the City's Stormwater Trust Fund.

For government-offered grants, in most cases either the City or a non-profit organization could be the applicant. For foundation funding, a non-profit like the Parks Conservancy would be more likely to apply.

The larger construction projects like the wetland boardwalks or flexible event seating are candidates for their own specific capital campaigns.

Improvements like the pedestrian bridge connecting Sheraden Park to Mckees Rocks could be a good opportunity to collaborate with the neighboring municipality in order to secure funding for a mutually beneficial neighborhood connection.

Appendix H provides a Master Plan Implementation Matrix, modeled on the matrix developed for Pittsburgh's OpenSpace Plan. The City should take the lead in identifying potential funding sources, concentrating on those projects in Phase 1 and Ongoing / Standalone projects that already have an interested group to support their realization.

CITY / AGENCIES

- City General Fund: Maintenance, Planning, Programming, Construction
- PWSA

COUNTY, STATE, AND FEDERAL GRANTS

- Allegheny County Conservation District
- Allegheny County/PA Gaming Economic Development Fund
- PA DCNR C2P2 for Trails; Park Rehabilitation & Development, Community Rec & Conservation Planning
- PA DCED Small Water & Sewer Program, Municipal Assistance Program, Watershed Restoration & Protection Program
- USDA Conservation Innovation Grant

NATIONAL ORGANIZATIONS

NRPA Great Urban Parks Campaign Grant

The list of potential funding sources above is not exhaustive; the City and Implementation Committee should continue to seek grant opportunities and coordinate applications.

REVENUE-GENERATING ACTIVITIES

There may also be opportunities to incorporate revenue-generating activities into the park that could help offset some of the costs.

For example, the renovated park building could be rented out or used to host paid events. The proposed kayak rentals along Chartiers Creek could bring in money for the park and the proposed dirt bike facility would also charge fees for users. Fees from these third-party operators may be able to generate some revenue to sustain the park.

The amounts generated from these activities would not be large but they could be directed to the funding of a particular project or used for increased park maintenance.

MAINTENANCE

RESPONSIBILITIES

As a City park, all elements proposed in the Sheraden Park Master Plan will be maintained by the Department of Public Works (DPW) except for 1) green infrastructure, which will be maintained by PWSA or a PWSA-hired contractor and 2) third-party operator sites like a kayak rental facility or dirt bike facility which will be maintained by the operator under an agreement with the City.

Stewardship groups can assist with some maintenance tasks like monitoring site conditions, invasive species removal, and trail clearing using hand tools. A volunteer agreement must be made with DPW before any volunteer work can take place. Groups must fill out a volunteer application to gain approval of clean up, construction and other work to be done in the park. Any task that falls under a union agreement, like painting or paving, can only be done by DPW. Use of any tools other than hand tools should be done by DPW or an insured contractor.

Constructing the features proposed in the Sheraden Park Master Plan will increase the maintenance time needed at the park, both because there will be more elements to maintain and because an increase in park users brings an increase in wear and tear on the park. The greater annual operating expense may be justified because as a signature community park that provides benefits to a larger community, Sheraden Park merits greater investment.

The park may be able to generate revenue to offset some of the increased maintenance costs. The green infrastructure components will alleviate some current maintenance issues related to water management, especially the consistent flooding and standing water on the ball fields. Durable materials such as stone, concrete, and metal should be used in the design of constructed features.

VOLUNTEERING AND STEWARDSHIP-Opportunities

ONGOING:

HIKING TRAIL ADDITIONS & IMPROVEMENTS:
- Trail building
- Trail maintenance
- Trail guides & plant identification class teaching
- Trash pickup
- Historic stone steps restoration

INVASIVE PLANT SPECIES MANAGEMENT:
- Japanese knotweed cutback
- Tarp smothering
- Native plant installations
- Plant identification class teaching

AQUATIC HABITAT PROTECTION & MANAGEMENT:
- Trail building
- Native plant installation
- Plant identification class teaching

ERODED SLOPE STABILIZATION:
- Slope repair
- Tree planting

YOUTH/ADULT REC. LEAGUE PROGRAMMING:
- Sponsorship recruitment
- Coaching & league management

PHASE 1:

ADA ACCESSIBLE COMMUNITY GARDEN:
- Raised planting bed construction
- Gardening
- Composting
- Historic stone wall restoration

HILLSIDE DOG PARK
- Cleanup & maintenance

WILDERNESS EDUCATION AREA:
- Site clearing & building
- Camping hosts / scout leaders

GRILL AREA IMPROVEMENTS:
- Grass planting
- Canopy thinning

TUNNEL MURALS:
- Local artist recruitment
- Painting

PHASE 3:

CHARTIERS CREEK PIER & BOAT LAUNCH
- Class teaching:
- Kayak/canoe classes
- Waterway navigation classes
- Water safety classes
- Yoga/fitness classes
- Birding classes
- Fishing classes
- Creek cleanup

TRAIL BUILDING

ERODED SLOPE

JAPANESE KNOTWEED CUTBACK

TREE PLANTING

COMMUNITY GARDEN BUILDING

TRASH PICKUP

COMPOSTING

MURAL PAINTING

CLASS TEACHING

VOLUNTEERING AND STEWARDSHIP-Gauging Public Interest

The fourth and final community event for the Sheraden Park Master Plan saw not only the unveiling of the final plan and phasing, but also incorporated a series of activities meant to gauge public interest in volunteering and becoming stewards of Sheraden Park. Potential volunteer opportunities were split into the following three categories and allowed participants to vote on activities that they thought were of interest or importance to the continued success of the park.

SHERADEN "BUCKS"

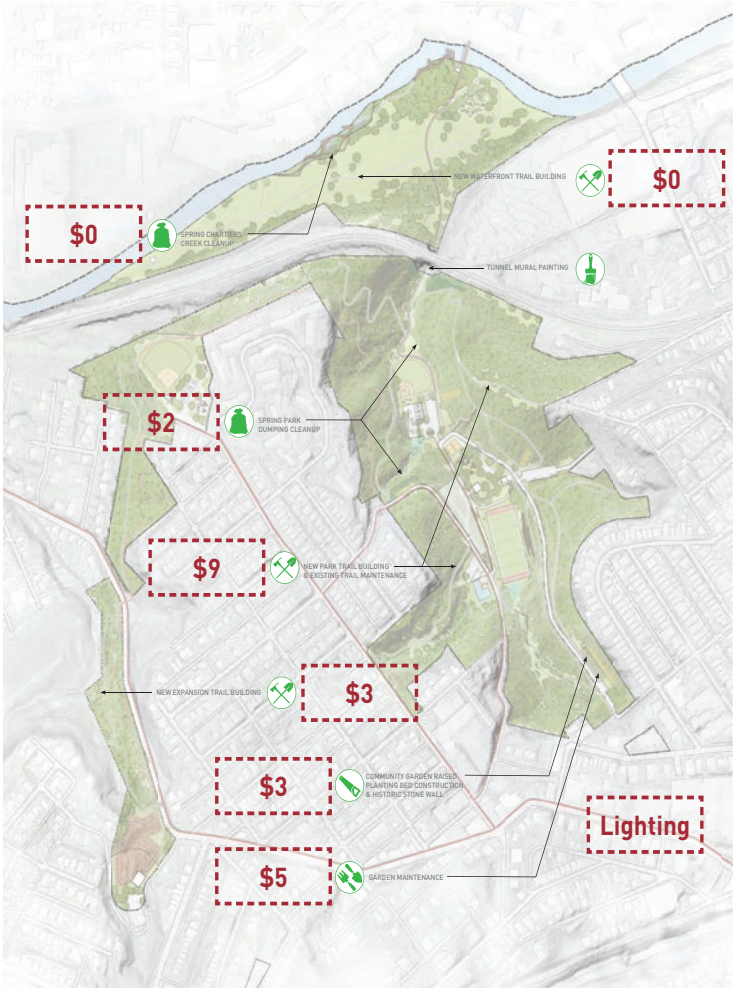
DIRECTIONS GIVEN TO CE4 PARTICIPANTS:

1. Place your volunteer dollars next to whichever activity you think is most important. The more dollars you spend, the more important it is to you.

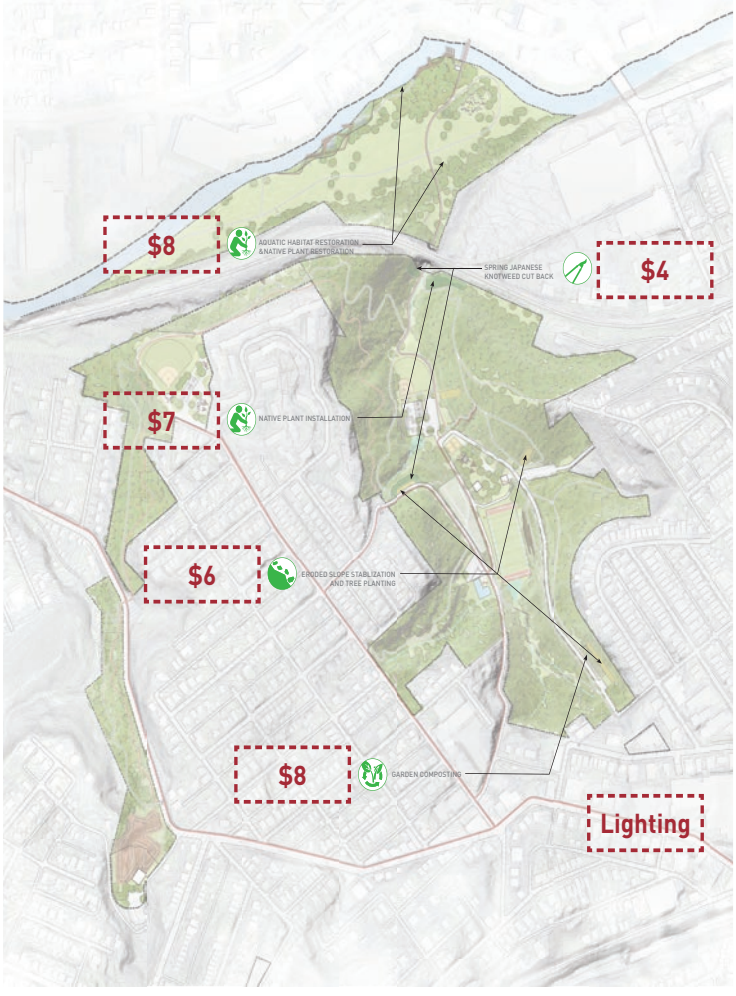
2. Sign up on the sheet at this station if this is something that you would like to get involved with!

3. f you think an important volunteer opportunity is not listed, please identify it on the map!

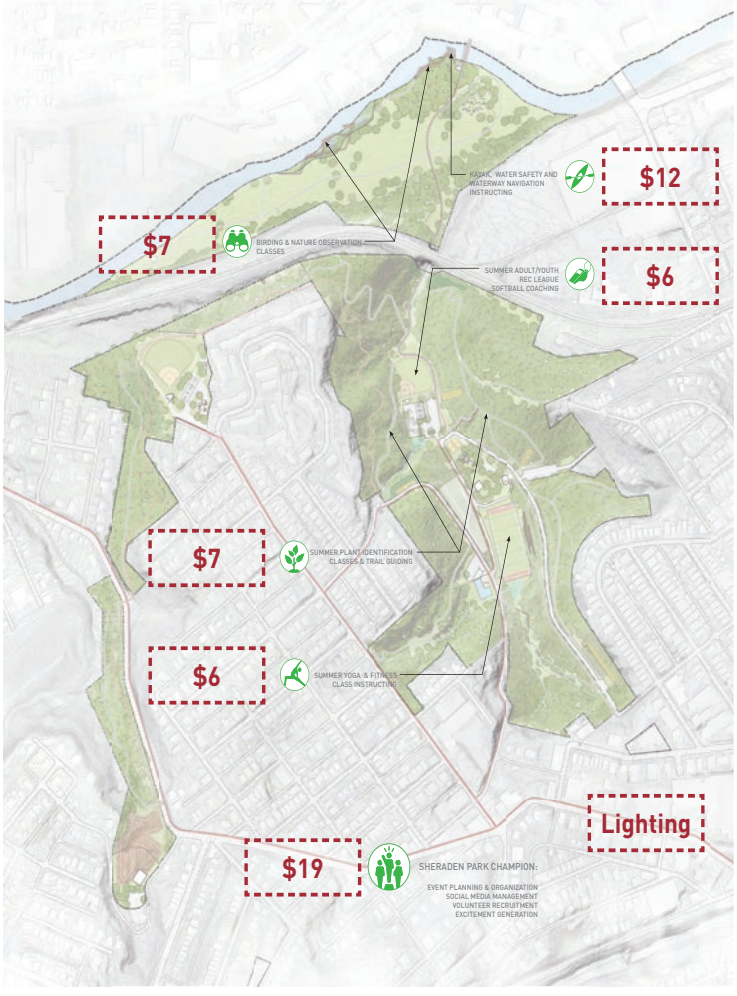
PARK CLEANUP & CONSTRUCTION VOTING RESULTS

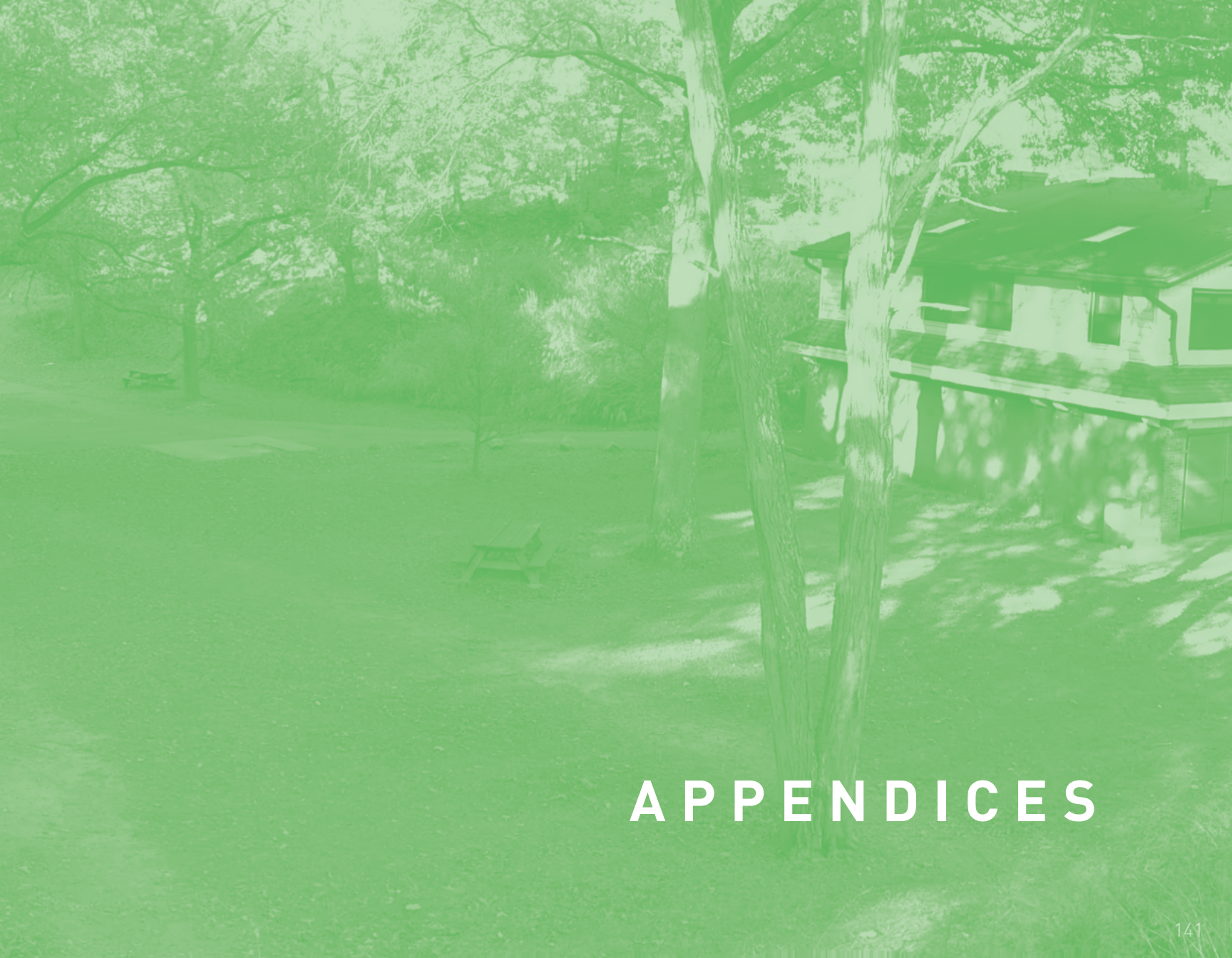


ECOLOGY & PARK ENVIRONMENTAL HEALTH VOTING RESULTS



EDUCATIONAL OPPORTUNITIES VOTING RESULTS





APPENDICES

Riverine Assessment Form 1

Pennsylvania Riverine Condition Level 2 Rapid Assessment Protocol (Document No. 310-2137-003)

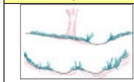
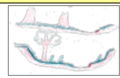
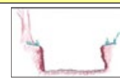
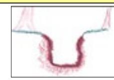
Pennsylvania Department of Environmental Protection

For use in intermittent or perennial watercourses with drainage areas ≤ 2,000 square mile drainage areas.

Project #	Project Name	Locality	Date	Ch 93 Classification		AA Id	Length
101855	Sheraden Park	Pittsburgh	08/28/2019	Designated: WWF	Existing: N/A		

Latitude	40°27'32.1"N	Longitude	80°03'40.5"W	FGM Level 1 Channel Classification
Evaluator(s)		**Stream Name and Information**		Intermittent channel, entrenched, mainly runoff-fed
zs		Unnamed Tributary to Chartiers Creek		

1. CHANNEL/FLOODPLAIN: Assess the cross-section of the stream and prevailing conditions along the AA.

	Condition Category				
	Optimal	**Suboptimal**	**Marginal**	**Poor**	**Severe**
					
Channel / Floodplain	**Channel Geometry:** These channels show very little incision or widening and little or no evidence of active erosion. Anastomosing channels may be present. **Channel Stability:** Visual indicators include: 1) the banks are not eroding along greater than 5% of the reach; 2) natural vegetative or rock stability features are present along greater than 80% of the banks; 2) stable point bars and bankfull benches may be present; 3) mid-channel bars and transverse bars are rare and if transient channel sediment deposition is present, it covers less than or equal to 10% of the stream bottom; 4) baseflow is connected to the rooting depths of vegetation in the active floodplain. **Active Floodplain Connection:** The bankfull stream flows have frequent access to the active floodplain and fully developed point bars or bankfull benches that are accessed at most flows greater than baseflow.	**Channel Geometry:** These channels are slightly incised or overwidened and contain a few areas of active erosion. **Channel Stability:** Visual indicators include: 1) the banks are actively eroding along less than 25% of the reach; 2) depositional features such as point bars and bankfull benches are present and stable during high flows and occur along greater than 50% of the reach; 3) natural bank protection like vegetation or rock is providing stability along greater than 50% of the reach; 4) baseflow is connected to vegetated point bars and bankfull benches. **Active Floodplain Connection:** The bankfull stream flows frequently access bankfull benches, or point bars along portions of the reach and may frequently inundate the active floodplain.	**Channel Geometry:** These channels are over-widened or incised, but to a lesser degree than the Severe and Poor channel conditions. **Channel Stability:** Visual indicators include: 1) the banks are eroding or severely undercut along greater than 25% and less than or equal to 50% of the reach; 2) depositional features like point bars or bankfull benches occur along greater than 25% and less than or equal to 50% of the reach; 3) the stream banks may consist of some vertical or undercut banks or nick points associated with head cuts; **Active Floodplain Connection:** The bankfull stream flows have infrequent connection to the active floodplain.	**Channel Geometry:** These channels are over-widened or incised and eroding vertically and/or laterally. **Channel Stability:** Visual indicators include: 1) the banks are eroding or severely undercut along greater than 50% of the reach; 2) active or recent bank sloughing is present along greater than 50% of the reach; 3) natural bank protection like vegetation is not preventing bank erosion along the reach; 4) depositional features, such as point bars and bank full benches, are absent from the reach or newly developing along less than 25% of the reach; 5) bank full benches and point bars frequently scour during high flows; 6) baseflow is disconnected from plant rooting depths and the active floodplain. **Active Floodplain Connection:** The bankfull stream flows are not connected to the active floodplain.	**Channel Geometry:** These channels are deeply incised and actively eroding vertically and/or laterally. Over widened channels may contain sections of unstable braided channels from aggradation. **Channel Stability:** Visual indicators include: 1) the banks are actively eroding or being undercut along greater than 80% of the reach; 2) active or recent bank sloughing is occurring along greater than 80% of the reach; 3) natural bank protection like vegetation is not preventing bank erosion or sloughing; 4) depositional features such as point bars and bankfull benches are absent; 5) flood flows are disconnected from the active floodplain. **Active Floodplain Connection:** The bankfull stream flows are never connected to the active floodplain.
SCORE	20 19 18 17	16 15 14 13	12 11 10 9	8 7 6 5	4 3 2 1

Comments:

CI = (Score)/20		CI
SCORE	10	0.50

2. RIPARIAN VEGETATION: Assess the floodplain along the entire AA (Visual estimates of areal coverage from aerial photos with field verification acceptable).

	Condition Category						
	Optimal	**Suboptimal**		**Marginal**		**Poor**	
Riparian Vegetation (Floodplain)	Riparian area vegetation consists of a tree stratum present (diameter at breast height (dbh) > 3 inches) with greater than or equal to 60% tree canopy cover. Areas comprised of stream channels, wetlands (regardless of classification or condition) and lacustrine resources ≥ 10 acres are scored as optimal.	**High Suboptimal:** Riparian area vegetation consists of a tree stratum (dbh > 3 inches) present, with greater than or equal to 30% and less than 60% tree canopy cover and containing both herbaceous and shrub layers or a non-maintained understory.	**Low Suboptimal:** Riparian area vegetation consists of a tree stratum (dbh > 3 inches) present, with greater than or equal to 30% and less than 60% tree canopy cover with a maintained understory.	**High Marginal:** Riparian area vegetation consists of non-maintained, dense herbaceous vegetation with either a shrub layer or a tree stratum (dbh > 3 inches) present, with less than 30% tree canopy cover.	**Low Marginal:** Riparian area vegetation consists of non-maintained, dense herbaceous vegetation, riparian areas lacking shrub and tree stratum, areas of hay production, and ponds or open water areas (< 10 acres). If trees are present, tree stratum (dbh > 3 inches) present, with less than 30% tree canopy cover with maintained	**High Poor:** Riparian area vegetation consists of lawns, mowed, and maintained areas, nurseries; no-till cropland; actively grazed pasture, sparsely vegetated non-maintained area, pervious trails, recently seeded and stabilized, or other comparable condition.	**Low Poor:** Riparian area consists of impervious surfaces; mine spoil lands, denuded surfaces, row crops, active feed lots, impervious trails, or other comparable conditions.
		High	**Low**	**High**	**Low**	**High**	**Low**
SCORE	20 19 18 17 16	15 14 13	12 11	10 9 8	7 6	5 4 3	2 1

Comments:

1. Identify Condition Category areas along the floodplain using the descriptors above.
2. Estimate the % area within each condition category.
3. Enter the % Riparian Area in in decimal form (0.00) and Score for each category in the blocks below.

Ensure the sum of the % Riparian Area Blocks equal 100

								Side Sub-Index	
	Condition Category								
Right Side	% Riparian Area:	100%	0%	0%	0%	0%	0%	0.65	Side Sub-Index = SUM(%Areas*Scores)/20
	Score:	13	0	0	0	0	0		
	Total Sub-score:	13.00	0.00	0.00	0.00	0.00	0.00		
	Condition Category								
Left Side	% Riparian Area:	100%	0%	0%	0%	0%	0%	0.65	CI = (Left Side CI + Right Side CI)/2 — CI
	Score:	13	0	0	0	0	0		0.65
	Total Sub-score:	13.00	0.00	0.00	0.00	0.00	0.00		

Riverine Assessment Form 1 - Page 2

2/4/2017

3. RIPARIAN ZONE OF INFLUENCE: Assess land cover along both sides, 100 feet from edge of floodplain into the upland along the entire AA. (rough measurements of length & width may be acceptable)

	Condition Category						Comments:
	Optimal	Suboptimal		Marginal		Poor	
Riparian ZOI	Riparian ZOI area vegetation consists of a tree stratum present (diameter at breast height (dbh) > 3 inches) with greater than or equal to 60% tree canopy cover. Areas comprised of stream channels, wetlands (regardless of classification or condition) and lacustrine resources ≥ 10 acres are scored as optimal.	**High Suboptimal:** Riparian ZOI area vegetation consists of a tree stratum (dbh > 3 inches) present, with greater than or equal to 30% and less than 60% tree canopy cover and containing both herbaceous and shrub layers or a non-maintained understory.	**Low Suboptimal:** Riparian ZOI area vegetation consists of a tree stratum (dbh > 3 inches) present, with greater than or equal to 30% and less than 60% tree canopy cover with a maintained understory.	**High Marginal:** Riparian ZOI area vegetation consists of non-maintained, dense herbaceous vegetation with either a shrub layer or a tree stratum (dbh > 3 inches) present, with less than 30% tree canopy cover.	**Low Marginal:** Riparian ZOI area vegetation consists of non-maintained, dense herbaceous vegetation, riparian areas lacking shrub and tree stratum, areas of hay production, and ponds or open water areas (< 10 acres). If trees are present, tree stratum (dbh > 3 inches) present, with less than 30% tree canopy cover with	**High Poor:** Riparian ZOI area vegetation consists of lawns, mowed, and maintained areas, nurseries; no-till cropland; actively grazed pasture, sparsely vegetated non-maintained area, pervious trails, recently seeded and stabilized, or other comparable condition.	**Low Poor:** Riparian ZOI area consists of impervious surfaces; mine spoil lands, denuded surfaces, row crops, active feed lots, impervious trails, or other comparable conditions.
		High	Low	High	Low	High	Low
SCORE	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		5 4 3 2 1	

1. Identify Condition Category areas along the floodplain using the descriptors above.
2. Estimate the % area within each condition category.
3. Enter the % Riparian Area in decimal form (0.00) and Score for each category in the blocks below. Ensure the sums of % Riparian ZOI Blocks equal 100

							Side Sub-Index	
Right Side	Condition Category							
	% Riparian Area:	85%	15%	0%	0%	0%	0%	0.57
	Score:	13	2	0	0	0	0	Side Sub-Index = SUM(%Areas*Scores)/20
	Total Sub-score:	**11.05**	**0.30**	**0.00**	**0.00**	**0.00**	**0.00**	
Left Side	Condition Category							
	% Riparian Area:	85%	15%	0%	0%	0%	0%	0.57
	Score:	13	2	0	0	0	0	CI = (Left Side CI + Right Side CI)/2
	Total Sub-score:	**11.05**	**0.30**	**0.00**	**0.00**	**0.00**	**0.00**	**CI: 0.57**

4. INSTREAM HABITAT: Varied substrate sizes, water velocity and depths, woody and leafy debris, stable substrate, low embeddedness, shade, undercut banks, root mats, SAV, macrophytes, emergent vegetation, riffle-pool complexes, stable features.

	Condition Category				Comments:
	Optimal	Suboptimal	Marginal	Poor	
Instream Habitat/ Available Cover	Physical Elements that enhance a stream's ability to support aquatic organisms are present in greater than or equal to 50% of the reach. Substrate is favorable for colonization by a diverse and abundant epifaunal community, and there are many suitable areas for epifaunal colonization and/or fish cover.	Physical Elements that enhance a stream's ability to support aquatic organisms are present in greater than or equal to 30% and less than 50% of the reach. Conditions are mostly desirable and are generally suitable for full colonization by a moderately diverse and abundant epifaunal community.	Physical Elements that enhance a stream's ability to support aquatic organisms are present in greater than or equal to 10% and less than 30% of the reach. Conditions are generally suitable for partial colonization by epifaunal and/or fish communities.	Physical Elements that enhance a stream's ability to support aquatic organisms are present in less than 10% of the reach. Conditions are generally unsuitable for colonization by epifaunal and/or fish communities. The reach.	CI = (Score)/20 | CI
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1	SCORE N/A | 0.00

5. CHANNEL ALTERATION: Stream crossings, riprap, concrete, gabions, or concrete blocks, straightening of channel/channelization, embankments, spoil piles, constrictions, etc.

	Condition Category					Comments:
	Negligible	Minor		Moderate		Severe	
Channel Alteration	Channel alterations listed above are absent in the SAR. The stream has unaltered pattern or has normalized.	**Minor High:** Less than or equal to 20% of the stream reach is disrupted by any of the channel alterations listed above. Alteration or channelization present, usually adjacent to structures, (such as bridge abutments or culverts); evidence of past alteration, (i.e., channelization) may be present, but stream pattern and stability have recovered; recent alteration is not present.	**Minor Low:** Greater than 20% and less than or equal to 40% of the stream reach is disrupted by any of the channel alterations listed above. Alteration or channelization present, usually adjacent to structures, (such as bridge abutments or culverts); evidence of past alteration, (i.e., channelization) may be present, but stream pattern and stability have recovered; recent alteration is not	**Moderate High:** Greater than 40% and less than or equal to 60% of reach is disrupted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered.	**Moderate Low:** Greater than 60% and less than or equal to 80% of reach is disrupted by any of the channel alterations listed in the parameter guidelines. If the stream has been channelized, normal stable stream meander pattern has not recovered.	Greater than 80% of reach is disrupted by any of the channel alterations listed above. Greater than 80% of banks shored with gabion, riprap, or concrete.	
		High	Low	High	Low		CI = (Score)/20 | CI
SCORE	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		5 4 3 2 1	SCORE 7 | 0.35

RIVERINE CONDITION INDEX (RCI)	RCI
NOTE: **The CIs and RCI should be rounded to 2 decimal places.**	**RCI = (Sum of all CI's)/5** | **0.52**

If a CI is not applicable (e.g. due to use on intermittent watercourse or >100 sq. mile drainage area) in order to utilize the auto calculator feature the user will need to modify the RCI formula or enter the maximum score for that CI to achieve a CI of 1.0 which will offset the divisor difference.

General Comments:

APPENDIX B - PA RAP Data Sheet (Wetland Assessment)

Wetland Condition Assessment Form

Pennsylvania Wetland Condition Level 2 Rapid Assessment (Document No. 310-2137-002)

Pennsylvania Department of Environmental Protection

For use in all wetland classifications found within Pennsylvania except those found within the banks of a watercourse.

Project #	Project Name	Date	Proposed Impact Size (acres)	AA #	AA Size (acres)
101855	Sheraden Park	8/27/19	N/A	1	0.30

Name(s) of Evaluator(s)	Lat (dd)	Long (dd)	Notes:
ZS	40.456	-80.059	

General Comments:

1. Wetland Zone of Influence Condition Index

	Condition Category					
	Optimal	Suboptimal		Marginal		Poor	
Wetland Zone of Influence (300 foot area around AA perimeter)	ZOI area vegetation consists of a tree stratum present (diameter at breast height (dbh) > 3 inches) with greater than or equal to 60% tree canopy cover. Areas comprised of stream channels, wetlands (regardless of classification or condition) and lacustrine resources ≥ 10 acres are scored as optimal.	**High Suboptimal:** ZOI area vegetation consists of a tree stratum (dbh > 3 inches) present, with greater than or equal to 30% and less than 60% tree canopy cover and containing both herbaceous and shrub layers or a non-maintained understory.	**Low Suboptimal:** ZOI area vegetation consists of a tree stratum (dbh > 3 inches) present, with greater than or equal to 30% and less than 60% tree canopy cover with a maintained understory.	**High Marginal:** ZOI area vegetation consists of non-maintained, dense herbaceous vegetation with either a shrub layer or a tree stratum (dbh > 3 inches) present, with less than 30% tree canopy cover.	**Low Marginal:** ZOI area vegetation consists of non-maintained, dense herbaceous vegetation, riparian areas lacking shrub and tree stratum, areas of hay production, and ponds or open water areas (< 10 acres). If trees are present, tree stratum (dbh > 3 inches) present, with less than 30% tree canopy cover with maintained understory.	**High Poor:** ZOI area vegetation consists of lawns, mowed, and maintained areas, nurseries; no-till cropland; actively grazed pasture, sparsely vegetated non-maintained area, pervious trails, recently seeded and stabilized, or other comparable condition.	**Low Poor:** ZOI area vegetation consists of impervious surfaces; mine spoil lands, denuded surfaces, row crops, active feed lots, impervious trails, or other comparable conditions.	CI = Total Score/20
SCORE	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		5 4 3 2 1		

1. Identify all applicable Condition Category areas within the wetland zone of influence using the descriptors above.
2. Estimate the % area within each condition category. Calculators are provided for you below.
3. Enter the % ZOI Area in decimal form (0.00) and Score for each category in the blocks below.

Total Score = SUM(%Areas*Scores)

	Condition Category:							
Scoring:	% ZOI Area:	70%	15%	5%	10%	0%	0%	Total Score:
	Score:	12	7	4	3	0	0	
	Total Sub-score:	8.40	1.05	0.20	0.30	0.00	0.00	9.95

0.50

Comments:

2. Roadbed Presence Index

	Condition Categories					
	Optimal	Suboptimal		Marginal		Poor	
a. Roadbed Presence (within 0 - 100 foot Wetland ZOI distance)	**High Optimal:** No roadbeds present within 100 feet of the AA boundary	**Low Optimal:** Roadbed presence score within 0-100 feet of the AA boundary equal to or less than 2.	**High Suboptimal:** Roadbed presence score within 0-100 foot distance of the AA boundary is greater than to 2 but equal to or less than 4.	**Low Suboptimal:** Roadbed presence score within 0-100 foot distance of the AA boundary is greater than to 4 but less than or equal to 6.	**High Marginal:** Roadbed presence score within 0-100 foot distance of the AA boundary is greater than to 6 but less than or equal to 8.	**Low Marginal:** Roadbed presence score within 0-100 foot distance of the AA boundary is greater than to 8 but less than or equal to 10.	**High Poor:** Roadbed presence score within 0-100 foot distance of the AA boundary is greater than 10 but less than or equal to 12.	**Low Poor:** Roadbed presence score within 0-100 foot distance of the AA boundary is greater than 12.
SCORE	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		5 4 3 2 1		

Comments:

	Condition Categories					
	Optimal	Suboptimal		Marginal		Poor	
b. Roadbed Presence (within 100 - 300 foot Wetland ZOI distance)	**High Optimal:** No roadbeds present within 100 - 300 feet of the AA boundary	**Low Optimal:** Roadbed presence score within 100 - 300 feet of the AA boundary equal to or less than 2.	**High Suboptimal:** Roadbed presence score within 100 - 300 feet of the AA boundary is greater than to 2 but equal to or less than 4.	**Low Suboptimal:** Roadbed presence score within 100 - 300 feet AA boundary is greater than to 4 but less than or equal to 6.	**High Marginal:** Roadbed presence score within 100 - 300 feet of the AA boundary is greater than or equal to 8.	**Low Marginal:** Roadbed presence score within 100 - 300 feet of the AA boundary is greater than to 8 but less than or equal to 10.	**High Poor:** Roadbed presence score within 100 - 300 feet of the AA boundary is greater than to 10 but less than or equal to 12.	**Low Poor:** Roadbed presence score within 100 - 300 feet of the AA boundary is greater than 12.
SCORE	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		5 4 3 2 1		

	Condition Score	Weighting	Sub-Scores
a. Roadbed 0-100:	17	* (0.67)	11
b. Roadbed 100-300:	14	* (0.33)	5
		Total Score:	16

CI = Total Score/20: **0.80**

APPENDIX B - PA RAP Data Sheet (Wetland Assessment)

Wetland Condition Assessment Form

Pennsylvania Wetland Condition Level 2 Rapid Assessment (Document No. 310-2137-002)

Pennsylvania Department of Environmental Protection

For use in all wetland classifications found within Pennsylvania except those found within the banks of a watercourse.

3. Vegetation Condition Index

	Condition Category																				
	Optimal					Suboptimal					Marginal					Poor				
a. Invasive Species Presence	**High Optimal:** No invasives present.				**Low Optimal:** <5% of the total AA contains invasive species.	**High Suboptimal:** >5% but less than 10% of the total AA contains invasive species.				**Low Suboptimal:** >10% but less than 20% of the total AA contains invasive species.	**High Marginal:** >20% but less than 30% of the total AA contains invasive species.				**Low Marginal:** >30% but less than 50% of the total AA contains invasive species.	> 50% of the total AA contains invasive species.				
SCORE	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Comments:

	Condition Category																				
	Optimal					Suboptimal					Marginal					Poor				
b. Vegetation Stressor Presence	**High Optimal:** No vegetation stressors present within the AA boundary.				**Low Optimal:** One vegetation stressor present within the AA boundary.	**High Suboptimal:** Two vegetation stressors present within the AA boundary.				**Low Suboptimal:** Three vegetation stressors present within the AA boundary.	**High Marginal:** Four vegetation stressors present within the AA boundary.				**Low Marginal:** Five vegetation stressors present within the AA boundary.	Greater than five vegetation stressors present within the AA boundary.					CI = Total Score/40
SCORE	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Comments:

a. Invasive Sub-Score:	12	**Total Score**	0.65
b. Vegetation Sub-Score:	14	**26**	

4. Hydrologic Modification Index

	Condition Category																				
	Optimal					Suboptimal					Marginal					Poor				
Hydrologic Modification Stressor Presence	**High Optimal:** No hydrologic stressors present within the AA boundary.				**Low Optimal:** One hydrologic stressor present within the AA boundary.	**High Suboptimal:** Two hydrologic stressors present within the AA boundary.				**Low Suboptimal:** Three hydrologic stressors present within the AA boundary.	**High Marginal:** Four hydrologic stressors present within the AA boundary.				**Low Marginal:** Five hydrologic stressors present within the AA boundary.	Greater than five hydrologic stressors present within the AA boundary.					CI = Total Score/20
SCORE	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Comments:

Score:	**11**	0.55

5. Sediment Stressor Index

	Condition Category																				
	Optimal					Suboptimal					Marginal					Poor				
Sediment Stressor Presence	**High Optimal:** No sediment stressors present within the AA boundary.				**Low Optimal:** One sediment stressor present within the AA boundary.	**High Suboptimal:** Two sediment stressors present within the AA boundary.				**Low Suboptimal:** Three sediment stressors present within the AA boundary.	**High Marginal:** Four sediment stressors present within the AA boundary.				**Low Marginal:** Five sediment stressors present within the AA boundary.	Greater than five sediment stressors present within the AA boundary.					CI = Total Score/20
SCORE	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Comments:

Score:	**20**	1.00

6. Water Quality Stressor Index

	Condition Category																				
	Optimal					Suboptimal					Marginal					Poor				
a. Eutrophication Stressor Presence	No eutrophication stressors present within the AA boundary.					One eutrophication stressors present within the AA boundary.					Two eutrophication stressors present within the AA boundary.					Three eutrophication stressors present within the AA boundary.					
SCORE	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Comments:

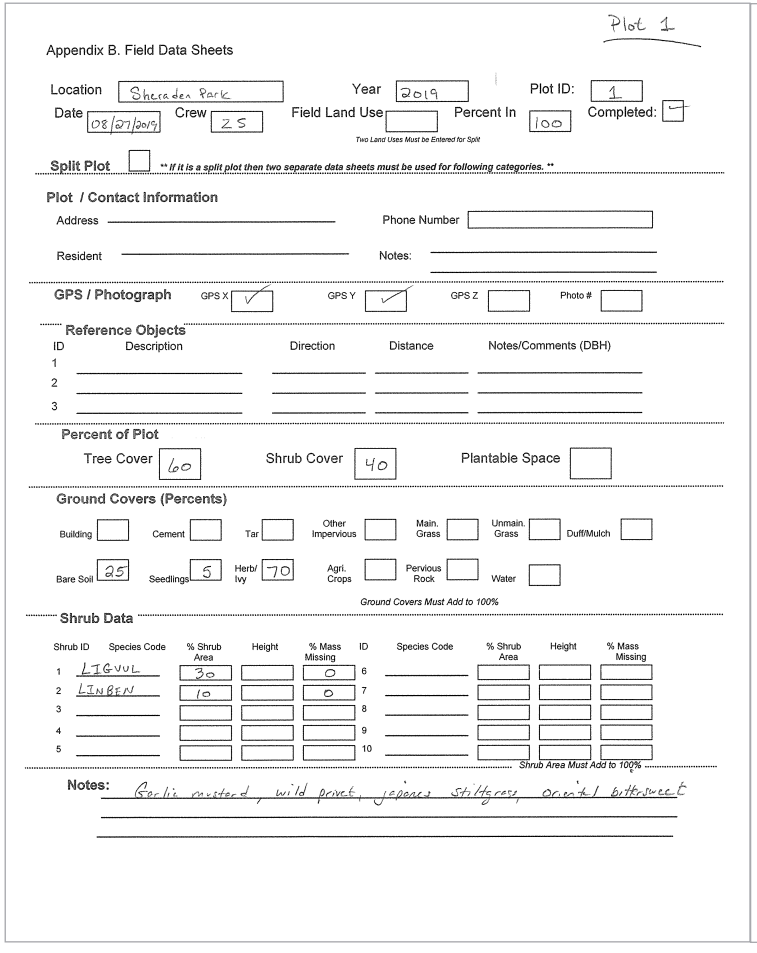
	Condition Category																				
	Optimal					Suboptimal					Marginal					Poor				
b. Contaminant / Toxicity Stressor Presence	No contaminant / toxicity stressors present within the AA boundary.					One contaminant / toxicitystressors present within the AA boundary.					Two contaminant / toxicity stressors present within the AA boundary.					Three contaminant / toxicity stressors present within the AA boundary.					CI = Total Score/40
SCORE	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Comments:

a. Eutrophication Score	20	**Total Score:**	1.00
b. Contaminant Score	20	**40**	

Overall Wetland Level 2 Condition Score: Sum all six of the Condition Indexes and divide by 6 to calculate the overall condition score.	**Overall Condition Index:**	0.75

APPENDIX C - Vegetation Plot Data Sheets



Plot 1

Appendix B. Field Data Sheets

Location: Sheraden Park | Year: 2019 | Plot ID: 1
Date: 08/27/2019 | Crew: ZS | Field Land Use: | Percent In: 100 | Completed: Y
Two Land Uses Must be Entered for Split

Split Plot ☐ *** If it is a split plot then two separate data sheets must be used for following categories. ***

Plot / Contact Information

Address: _____ Phone Number: _____

Resident: _____ Notes: _____

GPS / Photograph GPS X: ✓ GPS Y: ✓ GPS Z: _____ Photo #: _____

Reference Objects

ID	Description	Direction	Distance	Notes/Comments (DBH)
1				
2				
3				

Percent of Plot

Tree Cover: 60 | Shrub Cover: 40 | Plantable Space:

Ground Covers (Percents)

Building	Cement	Tar	Other Impervious	Main. Grass	Unmain. Grass	Duff/Mulch

Bare Soil	Seedlings	Herb/ Ivy	Agri. Crops	Pervious Rock	Water
25	5	70			

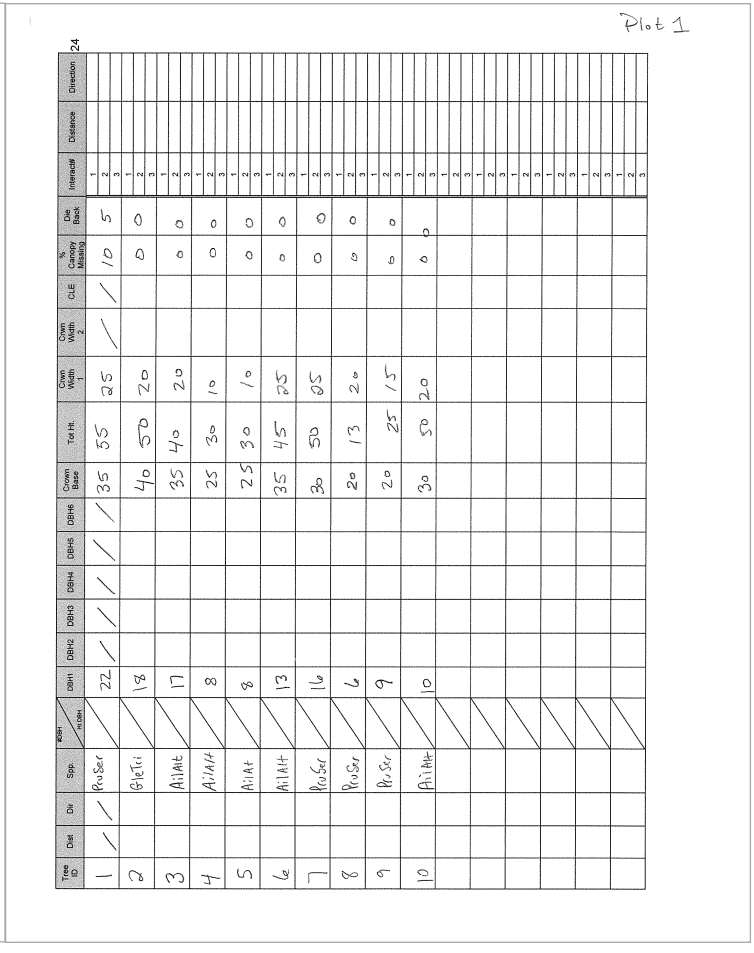
Ground Covers Must Add to 100%

Shrub Data

Shrub ID	Species Code	% Shrub Area	Height	% Mass Missing	ID	Species Code	% Shrub Area	Height	% Mass Missing
1	LIGVUL	30		0	6				
2	LINBEN	10		0	7				
3					8				
4					9				
5					10				

Shrub Area Must Add to 100%

Notes: Garlic mustard, wild privet, japanese stiltgrass, oriental bittersweet



Plot 1

Tree ID	Dist	Dir	Species	Abbr.	DBH1	DBH2	DBH3	DBH4	DBH5	DBH6	Crown Base	Tot Ht.	Crown Width 1	Crown Width 2	CLE	% Canopy Missing	Die Back	Interact#	Distance	Direction
1			RoSer		22						35	55	25			10	5	1 2 3		24
2			GleTri		18						40	50	20			0	0	1 2 3		
3			AilAlt		17						35	40	20			0	0	1 2 3		
4			AilAlt		8						25	30	10			0	0	1 2 3		
5			AilAlt		8						25	30	10			0	0	1 2 3		
6			AilAlt		13						35	45	25			0	0	1 2 3		
7			RoSer		16						30	50	05			0	0	1 2 3		
8			RoSer		6						20	13	20			0	0	1 2 3		
9			RoSer		9						20	25	15			0	0	1 2 3		
10			AilAlt		10						30	50	20			0	0	1 2 3		

Plot 2

Appendix B. Field Data Sheets

Location: Shereden Park | Year: 2019 | Plot ID: 2

Date: 08/27/19 | Crew: ZS | Field Land Use: | Percent In: 100 | Completed: ✓

Two Land Uses Must be Entered for Split

Split Plot ☐ *** If it is a split plot then two separate data sheets must be used for following categories. ***

Plot / Contact Information

Address: _____ Phone Number: _____

Resident: _____ Notes: _____

GPS / Photograph GPS X: ✓ GPS Y: ✓ GPS Z: _____ Photo #: _____

Reference Objects

ID	Description	Direction	Distance	Notes/Comments (DBH)
1				
2				
3				

Percent of Plot

Tree Cover: 85 | Shrub Cover: 2 | Plantable Space:

Ground Covers (Percents)

Building	Cement	Tar	Other Impervious	Main. Grass	Unmain. Grass	Duff/Mulch	Bare Soil	Seedlings	Herb/ Ivy	Agri. Crops	Pervious Rock	Water
						10	70	10	10			

Ground Covers Must Add to 100%

Shrub Data

Shrub ID	Species Code	% Shrub Area	Height	% Mass Missing	ID	Species Code	% Shrub Area	Height	% Mass Missing
1	Rose Spp.	2		0	6				
2					7				
3					8				
4					9				
5					10				

Shrub Area Must Add to 100%

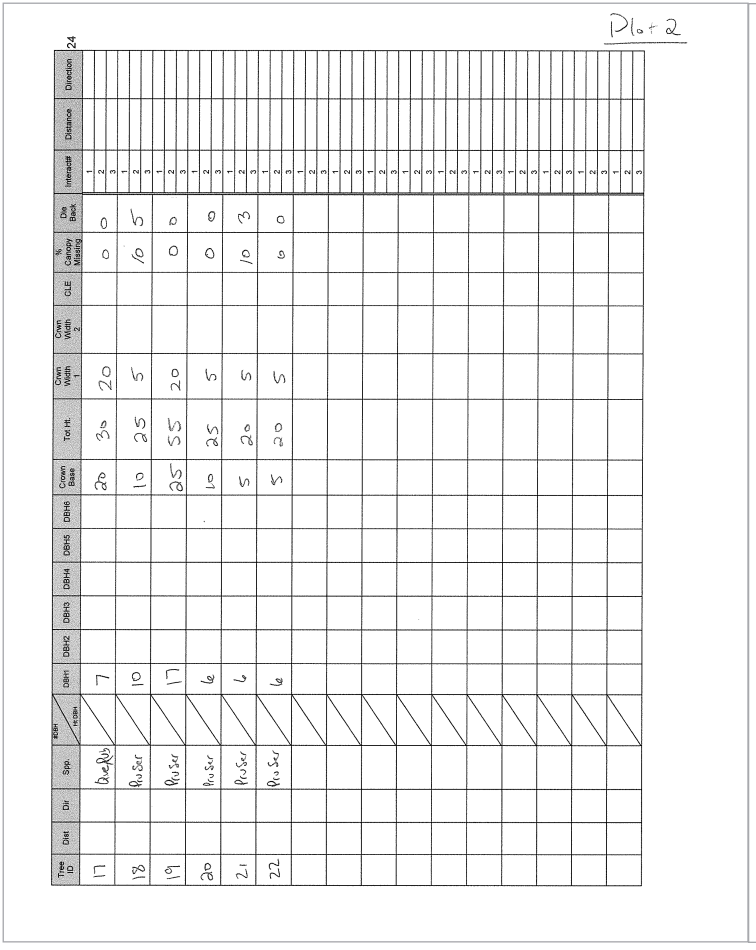
Notes: Japanese Honeysuckle vine

Plot 2

Tree ID	Dist	Dir	Spp.	Acer Incised	DBH1	DBH2	DBH3	DBH4	DBH5	DBH6	Crown Base	Tot Ht.	Crown Width 1	Crown Width 2	CLE	% Crown Missing	Die Back
1	/		AceRub		5	/					15	35	10	/	/	0	0
2	/		QuePal		16						10	40	10			0	0
3			ProSer		11						15	50	10			0	0
4			ProSer		9						20	45	10			0	0
5			QuaAlb		4						10	20	5			0	0
6			RobPse		11						15	50	10			0	0
7			QueRub		11						40	45	20			0	0
8			ProSer		12						25	50	20			0	0
9			AceNeg		7						30	40	25			0	0
10			QueRub		14						35	75	30			0	0
11			QueRub		15						25	60	15			0	0
12			QueRub		15						25	50	15			0	0
13			QueRub		14						30	65	15			0	0
14			ProSer		16						5	15	5			0	0
15			ProSer		13						15	55	10			0	0
16			QueRub		5						10	25	10			0	0

Intersect: 1 2 3 | Distance | Direction | 24

APPENDIX C - Vegetation Plot Data Sheets



Plot 2

Tree ID	Dist	Dir	Spp.	Inter#	DBH1	DBH2	DBH3	DBH4	DBH5	DBH6	Crown Base	Tot Ht.	Crown Width 1	Crown Width 2	CLE	% Canopy Missing	Dia Back
17			QuRu		7						20	30	20			0	0
18			QuSer		10						10	25	5			10	5
19			QuSer		17						25	55	20			0	0
20			QuSer		6						10	25	5			0	0
21			QuSer		6						5	20	5			10	3
22			QuSer		6						5	20	5			0	0

Plot 3

Appendix B. Field Data Sheets

Location: Sheraden PARK Year: 2019 Plot ID: 3

Date: 08/27/19 Crew: 2S Field Land Use: Percent In: 100 Completed: ✓

Two Land Uses Must be Entered for Split

Split Plot ☐ *** If it is a split plot then two separate data sheets must be used for following categories. ***

Plot / Contact Information

Address: _____ Phone Number: _____

Resident: _____ Notes: _____

GPS / Photograph GPS X: ✓ GPS Y: ✓ GPS Z: Photo #:

Reference Objects

ID	Description	Direction	Distance	Notes/Comments (DBH)
1				
2				
3				

Percent of Plot

Tree Cover: 60 Shrub Cover: 40 Plantable Space:

Ground Covers (Percents)

Building: Cement: Tar: Other Impervious: Main. Grass: Unmain. Grass: Duff/Mulch: 10

Bare Soil: 50 Seedlings: 10 Herb/ Ivy: 30 Agri. Crops: Pervious Rock: Water:

Ground Covers Must Add to 100%

Shrub Data

Shrub ID	Species Code	% Shrub Area	Height	% Mass Missing	ID	Species Code	% Shrub Area	Height	% Mass Missing
1	LigVul	20			6				
2	LinBen	20			7				
3					8				
4					9				
5					10				

Shrub Area Must Add to 100%

Notes: Garlic mustard, Japanese Stiltgrass, Japanese honeysuckle, Oriental bittersweet

Plot 3

24

Tree ID	Dist	Dir	Spp.	#DBH / Ht DBH	DBH1	DBH2	DBH3	DBH4	DBH5	DBH6	Crown Base	Tot Ht.	Crwn Width 1	Crwn Width 2	CLE	% Canopy Missing	Die Back	Interact#	Distance	Direction
1	/	/	QueAlb		16	/	/	/	/	/	30	60	25	/	/	0	0			
2			RobPse		12						10	55	5			30	10			
3			CarCor		5						25	25	25			0	0			
4			QueAlb		9						15	40	10			0	0			
5			CarCor		12						20	55	15			0	0			
6			PruSer		7						5	15	5			20	5			
7			RobPse		14						20	60	15			5	5			
8			PruSer		8						10	20	10			0	0			
9			RobPse		29						45	80	40			0	0			
10			UlmAme		8						25	35	20			20	5			

Plot 4

Appendix B. Field Data Sheets

Location: Sheraden Park | Year: 2019 | Plot ID: 4
Date: 08/27/19 | Crew: 25 | Field Land Use: | Percent In: 100 | Completed: ✓

Two Land Uses Must be Entered for Split

Split Plot ☐ ***** If it is a split plot then two separate data sheets must be used for following categories. *****

Plot / Contact Information

Address: | Phone Number:
Resident: | Notes:

GPS / Photograph

GPS X: | GPS Y: | GPS Z: | Photo #: 0282

Reference Objects

ID	Description	Direction	Distance	Notes/Comments (DBH)
1				
2				
3				

Percent of Plot

Tree Cover: 50 | Shrub Cover: 50 | Plantable Space:

Ground Covers (Percents)

Building	Cement	Tar	Other Impervious	Main. Grass	Unmain. Grass	Duff/Mulch
						10

Bare Soil	Seedlings	Herb/ Ivy	Agri. Crops	Pervious Rock	Water
50	30	10			

Ground Covers Must Add to 100%

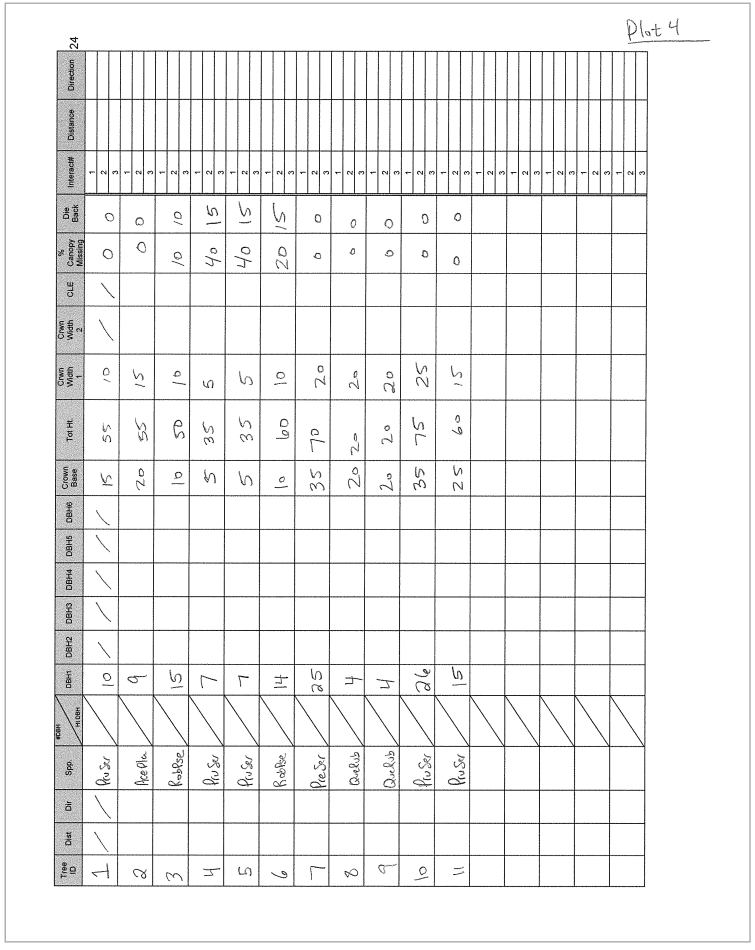
Shrub Data

Shrub ID	Species Code	% Shrub Area	Height	% Mass Missing	ID	Species Code	% Shrub Area	Height	% Mass Missing
1	LigVul	5			6				
2	LinBen	10			7				
3	RhoSca	40			8				
4					9				
5					10				

Shrub Area Must Add to 100%

Notes: Japanese Honeysuckle, Oriental Bittersweet

APPENDIX C - Vegetation Plot Data Sheets



Plot 4

24

Tree ID	Dist	Dir	Spp.	Acer section	DBH1	DBH2	DBH3	DBH4	DBH5	DBH6	Crown Base	Tot Ht.	Crwn Width 1	Crwn Width 2	CLE	% Canopy Missing	Die Back	Interest#	Distance	Direction
1	/	/	ProSer	/	10	/	/	/	/	/	15	55	10	/	/	0	0	1 2 3		
2			AcerPla	/	9						20	55	15			0	0	1 2 3		
3			FraPen	/	15						10	50	10			10	10	1 2 3		
4			ProSer	/	7						5	35	5			40	15	1 2 3		
5			ProSer	/	7						5	35	5			40	15	1 2 3		
6			FraPen	/	14						10	60	10			20	15	1 2 3		
7			PieSer	/	25						35	70	20			0	0	1 2 3		
8			QuRub	/	4						20	20	20			0	0	1 2 3		
9			QuRub	/	4						20	20	20			0	0	1 2 3		
10			ProSer	/	26						35	75	25			0	0	1 2 3		
11			ProSer	/	15						25	60	15			0	0	1 2 3		

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APPENDIX D - Implementation Matrix

	KEY: Priority: VH = very high; H = high; M = medium; L = low Funding level: $ = 50K or less; $$ = 51K to 250K; $$$ = over 250k	PRIORITY (Very High, High, Medium, Low)	CITY LEAD	FUNDING LEVEL ($,$$,$$$)	FUNDING SOURCE		
					CITY	GRANT (SOUGHT BY CITY OR NON-PROFIT)	THIRD PARTY / ANOTHER ORG (Donation; For-Profit; Authority)
PHASE 1	Prioritizes entrances and connections, pilot project and gathering zones						
	Lighting & Safety Improvements Includes light poles and bollards In key areas of park lowlands, especially concentrated around the grill area, basketball court, skate park, lower ball field and train tunnel **Potential Funding Sources:**		X	$$	X		
	Rest area improvements Includes equipping Sheraden Park building and McGonnigle park building with electronic locks. Sheraden Park building to be renovated for group gatherings and concessions **Potential Funding Sources:**		X	$$	X	X	X
	Grill Area Improvements Install 3 new fixed park grills and improve drainage between pavilion and slope **Potential Funding Sources:**		X	$	X		
	Hiking Trail Additions Includes the addition of roughly 6,800 LF of cleared, graded trail additions and water control elements within the current extend of Sheraden Park **Potential Funding Sources:**		X	$$	X	X	
	Stair Repair Includes repairs of the collapsed 100 LF section of concrete steps adjacent to the park pool on Adon Street. **Potential Funding Sources:**		X	$$	X	X	

	ADA Accessible Community Garden Includes (42) 50 SF raised garden plots, fence, mulch area and tool storage **Potential Funding Sources:**		X	$	X	X	X
	Apiary Apiary size TBD, fence sized based on model ordinance for keeping honey bees in Pennsylvanua municipalities **Potential Funding Sources:**		X	$	X	X	X
	Discovery Garden Play Areas Includes (3) discovery / exploration zones geared towards children ages 2-5 and 5-12 with a combined 18k SF and accompanying lighting **Potential Funding Sources:**		X	$$	X	X	X
	Hillside Dog Park Includes a 0.75 acre fenced zone for off-leash dogs, drinking water hook up, trash and dog bad dispenser. **Potential Funding Sources:**		X	$$	X	X	
	Wilderness Education Area Includes a 700 SF area with informal seating and firepits **Potential Funding Sources:**		X	$	X	X	

APPENDIX D - Implementation Matrix

PHASE 2	Prioritizes Active recreation amenities, stormwater infrastructure and circulation via paved park roads						
	Pool Building Upgrades Includes improvements to the pool shelter building including updated bathroom, locker room, drinking fountain and showering facilities **Potential Funding Sources:**		X	$$	X	X	
	Bioswales 2,300 LF of planted bioswales that take advantage of existing natural swales in site topography **Potential Funding Sources:**			$$	X	X	
	Rain Gardens / Stormwater Ponds Additional segment of shared-use path (approx 230 LF) and 3'-wide paved bicycle push-ramp (could be biked up, but does not meet shared path requirements) alongside the serpentine steps; signage at top and bottom **Potential Funding Sources:**			$	X	X	
	Subsurface Detention Subsurface detention area under the proposed football field **Potential Funding Sources:**			$$$	X	X	
	Full Size Football & Soccer Field Includes multi-use football and soccer field complete with goal posts and improved stadium lighting. New lines are to be regularly painted indicating new intent of use. **Potential Funding Sources:**		X	$	X	X	X
	Flexible Event Seating Includes proposed stone terraced seating overlooking the upper sports field **Potential Funding Sources:**		X	$$	X		
	Sand Volleyball Courts Includes (2) full size sand volleyball courts with posts and nets **Potential Funding Sources:**		X	$	X		
	Tuxedo Park Skate Park Relocation Includes transportation and relocation of existing Tuxedo Skate park to the Lowlands of Sheraden Park. 10K SFNew asphalt paving required **Potential Funding Sources:**		X	$$$	X		

	Basketball Court Relocation Includes the relocation of existing hoops and fencing and 3K SF new asphalt paving **Potential Funding Sources:**		X	$$	X		
	Forest Embankment Slides Includes (2) embankment slides built into existing slope with stairs running parrallel to slides. Includes a total of 150 LF metal slide with footings **Potential Funding Sources:**		X	$$$	X	X	
	Overlook Platform 300 SF partially cantilevered wood and metal overlook platform with guardrails **Potential Funding Sources:**		X	$$$	X	X	
	Park Road Connections Includes 2,400 LF paved asphalt road joining Surban and Adon Streets and providing connections for emergency vehicle access to the Chartiers Creek portion of the park **Potential Funding Sources:**		X	$$$	X		
	Parking Additions & Improvements Includes the reorganization of existing asphalt parking and a propsed addition of roughly 25K SF asphalt for parking additions in the park lowlands (12K), community garden (1K) and dirt bike facility (12K) **Potential Funding Sources:**		X	$$$	X		

APPENDIX D - Implementation Matrix

PHASE 3	Long term projects, espcially waterfont work						
	Paved Designated Bicycle Lane Includes painted bicycle lanes on asphalt paved roads **Potential Funding Sources:**		X	$$	X		
	Mountain Bike Trail Includes roughly 5K LF of cleared, graded dirt mountain biking trail with water control elements **Potential Funding Sources:**		X	$$	X		
	Pedestrian Bridge to McKees Rocks Includes a pedestrain bridge roughly 100 LF in length to span Chartiers Creek **Potential Funding Sources:**		X	$$$	X	X	X
	Kayak Rentals Includes a small, raised 750 SF rental building incorporated into the boardwalk to store kayaks and canoes and provide shelter for 1-2 employees **Potential Funding Sources:**		X	$$	X	X	X
	Chartiers Creek Boat Launch Includes (4) wood floating finger dock boat launches (1) ADA accessible launch. Finger docks are to be accessed by removable metal gangways **Potential Funding Sources:**		X	$$$	X	X	X
	Creek Boardwalk Includes roughly 8K SF ADA accessible raised wood boardwalk with adequate framing and posts. Portions of the boardwalk are to be constructed over water **Potential Funding Sources:**		X	$$$	X	X	
	Flexible Pier Includes roughly 4K SF ADA accessible raised wood boardwalk and pier with adequate framing and posts. Portions of the boardwalk and pier are to be constructed over water **Potential Funding Sources:**		X	$$$	X	X	
	Lewis & Clark Historical Signage Includes multiple permanent informational signs along the creek boardwalk **Potential Funding Sources:**		X	$	X	X	X

	Dirt Bike Facility Includes roughly 100K SF dirt riding track and facility with rentable motorized bikes on site and fence in to prohibit dirt bikes from leaving the official riding zone. dirt bike facility will be operated by a third party vendor and will include parking and office / storage building **Potential Funding Sources:**			$$$			X
ONGOING & STANDALONE	Includes ongoing restoration, improvements, programming and park expansion						
	Park Access & Signage Improvements Includes new standard city-wide park signage at all new park entry points **Potential Funding Sources:**		X	$	X	X	
	Existing Trail Improvements Incudes the consistant clearing and maintenance of existing and proposed park trails **Potential Funding Sources:**		X	$$	X	X	
	Eroded Slope Stabilization Includes the consistant repair of eroded slopes and stabilzation through vegetation planting **Potential Funding Sources:**		X	$$$	X	X	
	Invasive Plant Species Management Includes consistant cutting and tarping of invasive plants such as Japanese knotweed in the spring **Potential Funding Sources:**		X	$	X	X	
	Aquatic Habitat Protection & Management Includes signage informing park users of improved aquatic habitat zones **Potential Funding Sources:**			$		X	
	Park Expansion Includes the purchase and/or annexation of roughly 9 acres of vacant or publicly owned land into Sheraden Park. Park expansions are to have trails adequatley maintained **Potential Funding Sources:**		X	$$$	X	X	X
	Adult / Youth Rec League Proramming Includes seasonal prgramming of Sheraden Park sports leagues **Potential Funding Sources:**			$			X

APPENDIX E - Cost Estimate Phase 1 - Details

STUDIO BRYAN HANES
SHERADEN PARK MASTER PLAN
PHASE 1 IMPROVEMENTS
PITTSBURGH, PENNSYLVANIA

SBH #: 1806
Prepared By: BH
Date: 2/12/2020
Revised:

SUMMARY - COST ESTIMATE

Account	Description	Quantity	Unit	Unit Cost	Amount
	Demolition & Protection				
	Erosion & sediment control	1	LS	$ 15,000.00	$ 15,000
	Rough grading & site prep	25000	SF	$ 0.50	$ 12,500
	Miscellaneous removals - allowance	1	LS	$ 20,000.00	$ 20,000
	Tree protection	1	LS	$ 5,000.00	$ 5,000
	Utilities	1	LS	$ 20,000.00	$ 20,000
	Demo existing concrete stairs	1	LS	$ -	$ -
	Landscaping				
	Tree, shrub and perennials planting		ALLOW		$ 40,000
	Rest Area / Park Building Improvements				
	Renovations & Upgrades	150	SF	$ 2,000.00	$ 300,000
	Grill Area Improvements				
	Fixed Grills	5	EA	$ 1,500.00	$ 7,500
	Canopy Thinning	1	LS	$ 15,000.00	$ 15,000
	Lawn Seeding	4000	SF	$ 0.50	$ 2,000

APPENDIX E - Cost Estimate Phase 1 - Details

Children's Discovery Garden (x3)						
Fine grading	18000	SF	$	0.25	$	4,500
Surfacing	18000	SF	$	5.00	$	90,000
Edging	1	LS	$	25,000.00	$	25,000
Climbable / discovery elements	1	LS	$	600,000.00	$	600,000
Furnishings / benches	6	EA	$	2,000.00	$	12,000
Trees and planting	15	EA	$	1,200.00	$	18,000
Lighting	6	EA	$	12,000.00	$	72,000
Hiking Trail Additions						
Clearing & trail construction	6800	LF	$	8.00	$	54,400
Signage & Trail head	1	LS	$	10,000.00	$	10,000
Stair Repair						
Concrete stairs	600	SF	$	65.00	$	39,000
Metal Railing	200	LF	$	200.00	$	40,000
ADA Accessible Community Garden						
Raised garden plots	42	EA	$	350.00	$	14,700
Mtl picket fencing	420	LF	$	40.00	$	16,800
Tool Storage	1	LS	$	3,500.00	$	3,500
Slope stabilization behind plots	200	LF	$	40.00	$	8,000
Repairs to existing stone wall	1	LS	$	15,000.00	$	15,000
Lighting	1	EA	$	12,000.00	$	12,000

APPENDIX E - Cost Estimate Phase 1 - Details

Apiary						
Hives	6	EA	$	500.00	$	3,000
Mtl picket fencing	150	LF	$	40.00	$	6,000
Tool Storage	1	LS	$	3,500.00	$	3,500
Hillside Dog Park						
Mtl picket fencing	900	LF	$	60.00	$	54,000
Trash recepticles	1	EA	$	1,500.00	$	1,500
Bag dispensers	1	EA	$	1,000.00	$	1,000
Water connection	1	LS	$	35,000.00	$	35,000
Wilderness Education Area	1	LS	$	1.00	$	1
Furnishings / benches	6	EA	$	1,000.00	$	6,000
Fine grading	1000	SF	$	0.25	$	250
Wood mulch	1000	SF	$	2.00	$	2,000

Subtotal		$ 1,584,151
Contingency	25%	396,038
1% for Art	1%	15,842
Subtotal		1,996,030
General Requirements	15%	299,405
TOTAL ESTIMATED COST		**$ 2,295,435**

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APPENDIX E - Cost Estimate Phase 2 - Details

STUDIO BRYAN HANES SBH #:
SHERADEN PARK MASTER PLAN Prepared By:
PHASE 2 IMPROVEMENTS Date:
PITTSBURGH, PENNSYLVANIA Revised:

SUMMARY - COST ESTIMATE

Account	Description	Quantity	Unit		Unit Cost
	Demolition & Protection				
	Site clearing - demo ext paving	10000	SF	$	1.00
	Site clearing	1	LS	$	10,000.00
	Erosion & sediment control	1	LS	$	15,000.00
	Rough grading & site prep	120000	SF	$	0.50
	Miscellaneous removals - allowance	1	LS	$	20,000.00
	Tree protection	1	LS	$	5,000.00
	Utilities	1	LS	$	20,000.00
	Landscaping				
	Tree, shrub and perennials planting		ALLOW		
	Pool Building Upgrades				
	Renovations & Upgrades	1500	SF	$	75.00
	Bioswales				
	Fine grading along route	9200	SF	$	0.50
	Planting	9200	SF	$	10.00
	Weirs - stone, every 50 feet	46	EA	$	1,200.00
	Rain Garden / Stormwater Ponds				
	Fine grading	6000	SF	$	0.50
	Planting	6000	SF	$	10.00
	Soils	1300	CY	$	55.00

APPENDIX E - Cost Estimate Phase 2 - Details

Subsurface Detention				
Excavation beneath field	1480	CY	$	50.00
Infrastructure - allowance	1	LS	$	50,000.00
R-tanks	1	LS	$	1,000,000.00
Full Size Football & Soccer Field				
Goal posts	2	EA	$	10,000.00
Goal nets	2	EA	$	6,000.00
Paint	1	LS	$	500.00
Seeding	60000	SF		0.50
Lighting	4	EA		20,000.00
Flexible Event Seating				
Fine grading	8000	SF	$	0.50
Lawn - seeding and soil	8000	SF	$	2.00
Amphitheater seatwalls, stone	800	LF	$	300.00
Sand Volleyball Courts				
Fine grading	4200	SF	$	0.50
Sand	200	CY	$	20.00
Posts & Nets	2	EA	$	10,000.00
Lighting	1	EA		10,000.00
Tuxedo Park Skate Park Relocation				
New skate park	1	LS	$	500,000.00
Basketball Court Relocation				
New asphalt paving	3000	SF	$	3.50
New hoops	2	EA	$	6,000.00
Mtl picket fencing	250	LF	$	40.00
Paint	1	LS	$	500.00

APPENDIX E - Cost Estimate Phase 2 - Details

Forest Embankment Slides				
Grading and tree work	600	SF	$	2.00
Metal slide	150	LF	$	700.00
Stairs next to slide	50	SF	$	500.00
Overlook Platform				
Structure, Decking, Guardrails	75	SF	$	600.00
Park Road Connections				
Rough and fine grading	19200	SF	$	0.50
Asphalt (full depth road)	19200	SF	$	12.00
Lighting	12	EA	$	12,000.00
Striping	2400	LF	$	5.00
Parking Additions & Improvements				
Rough and fine grading	13000	SF	$	0.25
Asphalt (full depth road)	13000	SF	$	12.00
Lighting	6	EA	$	10,000.00
Striping	1440	LF	$	5.00

Subtotal	
Contingency	25%
1% for Art	1%
Subtotal	
General Requirements	15%
TOTAL ESTIMATED COST	

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STUDIO BRYAN HANES
SHERADEN PARK MASTER PLAN
PHASE 3 IMPROVEMENTS
PITTSBURGH, PENNSYLVANIA

SBH #: 1806
Prepared By: BH
Date: 2/12/2020
Revised:

SUMMARY - COST ESTIMATE

Account	Description	Quantity	Unit	Unit Cost	Amount
	Demolition & Protection				
	Site clearing - demo ext paving	13000	SF	$ 1.00	$ 13,000
	Site clearing	1	LS	$ 10,000.00	$ 10,000
	Erosion & sediment control	1	LS	$ 15,000.00	$ 15,000
	Rough grading & site prep	23000	SF	$ 0.50	$ 11,500
	Miscellaneous removals - allowance	1	LS	$ 20,000.00	$ 20,000
	Tree protection	1	LS	$ 5,000.00	$ 5,000
	Utilities	1	LS	$ 20,000.00	$ 20,000
	Landscaping				
	Tree, shrub and perennials planting		ALLOW		$ 40,000
	Paved Designated Bicycle Lane				
	Striping (within park only)	4000	LF	$ 5.00	$ 20,000
	Mountain Bike Trail				
	Clearing & trail construction	5100	LF	$ 8.00	$ 40,800
	Pedestrian Bridge to McKees Rocks		ALLOW		$ 750,000
	Donated pedestrian bridge				
	Kayak Rentals				
	Storage facility (expenses by 3rd party)				$ -

Chartiers Creek Boat Launch					
Floating finger docks	300	SF	$	120.00	$ 36,000
Mtl gangways w/railings	4	EA	$	6,000.00	$ 24,000
ADA launch	1	EA	$	3,000.00	$ 3,000
Creek Boardwalk					
Excavation & footers	1	LS	$	60,000.00	$ 60,000
Wood decking & framing	8000	SF	$	40.00	$ 320,000
Flexible Pier					
Excavation & footers	1	LS	$	60,000.00	$ 60,000
Wood decking & framing	4000	SF	$	50.00	$ 200,000
Lewis & Clark Historical Signage					
signage	1	LS	$	10,000.00	$ 10,000
Park Expansion					
Parcel transfer and acquisitions (Approx. 9 acres)					$ -
Clearing & trail construction	4500	LF	$	8.00	$ 36,000
Signage & Trail head	1	LS	$	10,000.00	$ 10,000
Title Searches	1	LS	$	10,000.00	$ 10,000
Dirt Bike Facility					
Facility, track, fencing (expenses by 3rd party)					$ -

Subtotal		$ 1,714,300
Contingency	25%	428,575
1% for Art	1%	17,143
Subtotal		2,160,018
General Requirements	15%	324,003
TOTAL ESTIMATED COST		**$ 2,484,021**

SHERADEN PARK
MASTER PLAN
PUBLIC ENGAGEMENT PLAN

Project Overview

The Sheraden Park Master Plan was a six-month inclusive planning process to find ways to reimagine Sheraden Park as one of the City's signature community parks. Currently, Sheraden Park is hidden and underutilized. The park is located in the neighborhood of Sheraden, in the West End, and bordered by the City neighborhoods of Esplen, Chartiers City, Windgap, Crafton Heights, and Elliott. Just outside the City's border, the neighborhood of McKees Rocks plays an important role in Sheraden Park. The park is large, with the potential to serve many more patrons than currently use it. Because of its sinuous form, varying topography and forested character, the park offers unique opportunities for activities and amenities. Additionally, the master planning effort resulted in recommendations to expand Sheraden Park to include a series of public land parcels connecting to nearby McGonigle Park and Tuxedo Street Skate Park, as well as possible land acquisition for the purpose of providing public waterfront access to Chartiers Creek. Finally, in addition to opportunities for new and improved activities and amenities, the master planning of the park addressed stormwater and sewershed management along with environmental restoration.

The Sheraden Park Master Plan was a recommendation of the Open Space Plan (the City's Open Space, Parks, and Recreation Plan), adopted in July 2013. The Open Space Plan recommended Sheraden Park's designation as a "signature community park" with great potential to fill gaps in the City's greenspace, provide better and more diverse recreation experiences, and focus investment.

The park facilities are located in a valley between two hillsides. Surban Street runs through the valley, dead ending in the park. It provides access to two ball fields, sports courts, and two playgrounds. The Master Plan addressed the relationship between these scattered facilities and evaluated the elimination of outdated or isolated amenities. In addition, the Master Plan considered new facilities to create a critical mass of recreational facilities.

The Sheraden Park Master Planning process began in late July of 2019 and was completed by the end of February 2020. The process was led by the City of Pittsburgh's Department of City Planning, which engaged the Landscape Architecture firm of Studio Bryan Hanes with assistance from Sci-Tek, for engineering services, and Brean Associates, for stakeholder and public engagement.

Public and Stakeholder Engagement Process

Steering Committee Composition

The engagement process for Sheridan Park began with the identification of the Steering Committee, comprised of key neighborhood and agency stakeholders:

City Council	Theresa Kail-Smith	City Councilwoman, District 2
	Kim Salinetro	Council Chief of Staff, District 2
City Planning Staff	Andrew Dash	Assistant Director, Department of City Planning
	Sophia Robison	Neighborhood Planner, Department of City Planning
	Kara Smith	Principal Environmental Planner, Department of City Planning
	Marti Battistone	Senior Environmental Planner, Department of City Planning
Relevant Organizations and Departments	Kevin Pawlos	Assistant Director, Operating Budget, Mayor's Office
	Tom Paulin	Superintendent of Parks, Department of Public Works
	Andrea Ketzel	Landscape Architect, Department of Public Works
	Joe Fedor	Environmental Scientist, ALCOSAN
	Jeane Clark	Director of Governmental Affairs, ALCOSAN
	Henry Horn-Pyatt	Small Business & Redevelopment Manager, Mayor's Office
	Ana Flores	Engineer III, PWSA
	Susan Rademacher	Parks Curator, Pittsburgh Parks Conservancy
	Taris Vrcek	McKees Rocks Community Development Corporation
	Jeb Feldman	Director, Economic Development, McKees Rocks CDC
Resident Voices	Debra Bailey	President, Sheraden Community Council
	Rick Hildebrand	Sheraden Baseball
	Marianne Muraska	Sheraden Kiwanis Club
	Shawn Smith	Sheraden Family Business Owner and Resident
	Don Scholz	American Legion
	Lallon Thompson	Sheraden Resident

The Steering Committee was consulted prior to each community event to review content to be shared with the public and to check in on the engagement process. In addition, the project team drew on Steering Committee members, given their familiarity with community members, neighborhood issues, and site features, to co-facilitate key community events.

The Committee met on July 24, 2019 for the project kick-off. During that time, the key points of public engagement were discussed as well as the park's existing conditions that were to be presented at the first community meeting.

Steering Committee: In-depth Interviews

In order to fully benefit from the collective knowledge of the Steering Committee, in early October the project team convened individual interviews with the following members of the Steering Committee:

October 2, 2019
- City Councilwoman Theresa Kail-Smith, District 2 and Kim Salinetro, Chief of Staff, Council District 2
- Lallon Thompson, Community Resident

October 3, 2019
- Henry Horn-Pyatt, Office of Mayor Peduto
- Jeb Feldman, Director of Economic Development, McKees Rocks CDC

October 4, 2019
- Don Scholz, Community Resident, American Legion
- Ana Flores, Pittsburgh Water and Sewer Authority
- Joe Fedor, ALCOSAN
- Andrea Ketzel, Pittsburgh Department of Public Works

October 7, 2019
- Jeanne Clark, ALCOSAN

October 10, 2019
- Shawn Smith, Community Resident and Business Owner
- Debra Bailey, Community Resident, Sheraden Community Council
- Taris Vrcek, McKees Rocks CDC

October 11, 2019
- Susan Rademacher, Pittsburgh Parks Conservancy
- Marianne Muraska, Community Resident, Kiwanis Club

To guide the discussions, and depending on the stakeholder being interviewed, the following prompts were employed:

Personal/Organizational Connection to the Park
- What has your involvement been with Sheraden Park in the past?
- What do you do at your organization / what are your responsibilities re: Sheraden Park?
- How do you see yourself / your organization involved in this planning process?
- How do you see yourself / your organization involved in the park going forward?
- Do you use Sheraden Park? Why / not?
- What's a memorable experience you've had in Sheraden Park?

Learning from Past Planning Processes
- What has been your experience with other master planning / park planning processes in Pittsburgh?
- What led them to work out well / not?
- What are your hopes / goals for this process?
- Any cautions / concerns? Past frustrations?
- How would you define success for this project?
- We will have failed as a design team if we don't do X. What is X?
- Whom should we make sure we engage / speak with?
- Which voices haven't been heard in previous planning?
- Is there any history between individuals or user groups that you would like to tell us about?
- Do you have any specific ideas for creating a unique community engagement workshop that you would like to share with us?
- Any background documents / supporting info we should be looking at?

Opportunities, Challenges, and Vision
- What do you hope to see happen at Sheraden Park?
- What are the park's biggest challenges or limitations on what could be there?
- What is one of your favorite open spaces / green spaces in Pittsburgh? What do you like about it?
- What makes Sheraden Park unique relative to other Pittsburgh Parks?
- What's missing in PGH's park system? What do you wish you could do in Pittsburgh?
- What would make it a *signature* community park?
- If you could make three physical changes to the park tomorrow, what would they be?
- Where do you think restrooms are most needed?
- Where are your favorite views in the park?
- What events / programs happen at the park now?
- In your opinion, what Sheraden Park programs have been most successful and why?

Park Users
- Who uses the park now?
- Would you like to see more of Sheraden Park's immediate neighbors (Mckees Rocks, Esplen, Chartiers) using the park?
- Would you like to see more Pittsburghers (non-immediate neighbors) using the park?
- Would you like to see more tourists using the park?
- Would you like to see more children and youth in the park?
- How would you describe the adjacent neighborhoods?

Following the interviews, the project team reviewed key points raised with the Steering Committee to debrief on the issues and explore whether other individuals needed to be engaged, or issues needed to be explored further. Key issues were identified without attributing them to individuals.

Community Engagement Events

Four community events were convened during the planning process:

- September 26, 2019 - Explored existing conditions along with perceptions and preferences for the park
- October 24, 2019 - Evaluated multiple park plan alternatives and program elements
- December 5, 2019 - Discussed the draft Sheraden Park Master Plan
- January 23, 2019 - Presented the final Sheraden Park Master Plan, gathered information on community priorities, and engaged volunteers as on-going stewards

The process was intentionally fast paced in order to gain maximum public and stakeholder input by keeping the project in the forefront. Originally, to create a rhythm of community events, all meetings were to be held on the fourth Thursday of the month. However, because of the Thanksgiving holiday, the November meeting was moved to December 5th.

All events were held on Thursday evenings at the Sheraden Healthy Active Living Center, located at 720 Sherwood Avenue in Sheraden. The Center is accessible to those with mobility issues. In addition, all public communication stated that if accommodation was needed, participants were asked to send a request at least five days in advance of the meeting. In addition, all communication provided the contact information for Martina Battistone, the Pittsburgh Department of City Planning's Master Plan Project Manager.

Community events were advertised through household mailers, social media including Facebook sites, newsletters, and flyers dropped at key neighborhood venues.

Attachment: Sheraden Park Outreach Materials (including mailer, magnet, 11x17 flier, and postcards)

Accountability and Evaluation Metrics

Community Event 1

The initial event was intended to engage community members and park users to discuss the ways in which they use the park as well as challenges or obstacles to park use. Members of the Steering Committee were enlisted to co-facilitate activities. Through an interactive mapping exercise, meeting participants described their routes to and through the park. They also participated in a visual preference activity to identify images of place and experience that they envision for the park. Finally, meeting attendees were given an exit survey to provide feedback on the meeting format, how they heard about the meeting, who might be missing, and to give any other input that they did not have an opportunity to share. Thirty-five people attended this event from the neighborhoods of Sheraden, Esplen, Crafton Heights, Highland Park, Windgap, Westwood, and McKees Rocks.

Attachment: Community Event 1 Materials (including sign-in sheets and exit survey responses)

Community Event 2

At this event, participants were presented with three schemes to gather feedback on design direction for the Draft Master Plan:

- Wilderness and Ecology
- Active Recreation
- Community Gathering and Events

Participants were asked to give feedback on elements in all three schemes rather than to rank the schemes. For each scheme, participants were given a survey to identify their preferences for various elements. In addition, general comments were recorded on flip charts posted at each scheme. Twenty-seven people attended the event from Sheraden, Esplen, McKees Rocks, and Chartiers City.

Following this meeting, Steering Committee members were presented with an overview of feedback from the event combined with key issues of the Steering Committee interviews.

Attachment: Community Event 2 Materials (including sign-in sheets and exit survey responses along with an overview of the Steering Committee interviews and Community Event 2 feedback)

Targeted Outreach Following Event 2 - Rounding Out Participation

We noticed a drop in attendance at the second community engagement event. As a result, we planned three targeted outreach events with groups that were already convened for other purposes. We attended these events to spark interest in the process and encourage participation at the upcoming community engagement events. Where possible, we developed engagement exercises to gather additional input.

Sto-Rox Youth Partnership, October 29, 2019
We attended the regular monthly meeting of this group to give a brief presentation about the Master Plan project and to distribute information about upcoming meetings.

Kiwanis Club of Sheraden, November 7, 2019
We learned that the Kiwanis meets on Thursdays, conflicting with our community engagement events. Although a few members of the Steering Committee, who were also members of Kiwanis, continued to attend the events, we arranged to have an engagement session at their regularly scheduled meeting. The Club requested a follow-up presentation once the Master Plan was finalized. The presentation is scheduled for the March 19, 2020 Kiwanis meeting.

Sheraden Senior Center, November 22, 2019
We arranged to present during the program time slot at the Senior Center lunch. We presented a brief overview of the master plan process and utilized worksheets to gather input on parking, park access, and safety relative to Sheraden Park.

Attachment: Targeted Outreach Materials (including Sto-Rox Youth Partnership public contact list, Kiwanis Club discussion notes; Sheraden Senior Center agenda and worksheets)

Community Event 3

Building on the feedback gathered from the first two community meetings, along with input from the targeted outreach sessions, the project team presented the Draft Master Plan. In addition to opportunities for providing general comments, each participant received two surveys to identify priorities – one survey focused on park features and one focused on park expansion and circulation. Thirty-eight community members attended, representing the neighborhoods of Sheraden, McKees Rocks, Westwood, Elliot, Windgap, East Liberty, Crafton Heights, and Northside.

Attachment: Community Event 3 Materials (including sign-in sheets and surveys)

Community Event 4

The purpose of the final community engagement was to unveil the final Master Plan, identify community priorities within the plan elements, and begin to identify community volunteers and stewards of the park and the Master Plan. Participants were given "Sheraden bucks" and were asked to assign them to the volunteer activities they felt were most important in the following categories:

- Park Clean-up and Construction
- Ecology and Park Environmental Health
- Educational Opportunities

In addition, sign-in sheets were provided for each category of activities.

Forty-four community members attended the final meeting from the neighborhoods of Sheraden, Crafton, Crafton Heights, Chartiers, Elliott, McKees Rocks, Banksville, Scott Township, and Northside.

Attachment: Community Event 4 Materials (including sign-in sheets, volunteer boards, Sheradun bucks, and volunteer sign-up sheets)

Engagement Log

Date of Event	Tool	Event Name	Key Audiences	Approximate Attendance	Staff
7/24/19	Meeting	Steering Kick-off	Steering Committee	16	SBH, BA, DCP
9/26/19	Meeting/ Workshop	CE1	Public	40	SBH, BA, DCP
10/2/19	Interview	na	Steering Committee: Councilwoman Kail-Smith and Kim Salinetro	na	SBH, BA
10/2/19	Interview	na	Steering Committee: Lallon Thompson	na	SBH, BA
10/3/19	Interview	na	Steering Committee: Henry Horn-Pyatt	na	SBH, BA
10/3/19	Interview	na	Steering Committee: Jeb Feldman	na	SBH, BA
10/4/19	Interview	na	Steering Committee: Don Scholz	na	SBH, BA
10/4/19	Interview	na	Steering Committee: Ana Flores	na	SBH, BA
10/4/19	Interview	na	Steering Committee: Joe Fedor	na	SBH, BA
10/4/19	Interview	na	Steering Committee: Andrea Ketzel	na	SBH, BA
10/7/19	Interview	na	Steering Committee: Jeanne Clark	na	SBH, BA
10/10/19	Interview	na	Steering Committee: Shawn Smith	na	SBH, BA
10/10/19	Interview	na	Steering Committee: Debra Bailey	na	SBH, BA
10/10/19	Interview	na	Steering Committee: Taris Vrcek	na	SBH, BA
10/11/19	Interview	na	Steering Committee: Susan Rademacher	na	SBH, BA
10/11/19	Interview	na	Steering Committee: Marianne Murasks	na	SBH, BA
10/18/19	Web-based Meeting	Update	Steering Committee		SBH, BA, DCP
10/24/19	Meeting/ Workshop	CE2	Public	20	SBH, BA, DCP
10/29/19	Targeted Outreach	Sto-Rox Youth Partnership	Youth/ Community/ Soc. Serv.	24	DCP, BA
11/7/19	Targeted Outreach	Kiwanis	Community	20	DCP, BA
11/22/19	Targeted Outreach	Sheraden Senior Program	Seniors	25	DCP, BA
12/5/19	Meeting/ Workshop	CE3	Public	30	SBH, BA, DCP
1/15/20 - 1/21/20	Individual Outreach	Prep for CE4	Steering Committee	na	BA
1/22/20	Web-based Meeting	Prep for CE4	Steering Committee	na	SBH, BA, DCP
1/23/19	Meeting/ Workshop	CE3	Public	38	SBH, BA, DCP
3/19/20	Targeted Outreach	Kiwanis	Community	20	DCP, BA