

4.0 Master Planning Process

1. Established a working core team
 1. Representatives from each functional area
 1. Brent Anslinger- Outdoor Recreation Program Manager
 2. Katrina Arnold- Conservation and Nature Program Manager
 3. Mindy Baxter- Administrative Assistant, Planning and Projects
 4. Amy Forsthoefel- Research/Analysis Manager
 5. Alex Clark- Park Landscape Architect
 6. Yvonne Dunphe- Volunteer Coordinator
 7. Mark Hess- Chief of Rangers
 8. Karen Hesser- Chief of Operations
 9. Betty Hoevel-Education Coordinator
 10. Candy Holloway- Volunteer Coordinator
 11. Mary Klunk- Conservation Manager
 12. Joe Morrison- Regional Manager
 13. JoAnn Pennington-Events Coordinator
 14. Chris Pion- Director of Parks and Conservation
 15. Beth Redden- Chief of Philanthropy
 16. Eric Sauer- Planning Manager
 17. Carrie Scarff-Chief of Planning and Projects
 18. Laura Stevens- Interpretation Coordinator
 19. Brandon Thompson- Site Leader
 20. Bernadette Whitworth- Historical & Cultural Resource Manager
 21. Kristen Wicker- Marketing Manager
 22. Kelly Wood- Horticulturalist
 23. Joshua York- Education Coordinator
2. Public Relations
 1. Park Banners
 1. Placed at park entrances about 30 days before open houses
 2. Parkways
 3. Social Media
 4. FRMP Electronic Newsletters
 5. Direct emails
 6. Surveys
 1. In park intercept surveys
 2. Open House surveys
 7. Meet with Key Community Stakeholders
 1. Miami Township
 1. Chris Snyder- Director of Community Development-
csnyder@miamitownship.com
 2. Kyle Hinkelman- Deputy Director of Community Development khinkelman@miamitownship.com
 2. City of Miamisburg
 1. Chris Fine- Development Director
chris.fine@cityofmiamisburg.org
 2. Kelsey Whipp- Director of Parks and Recreation
kelsey.whipp@cityofmiamisburg.org

3. City of West Carrollton
 1. Greg Gaines- Director of Planning and Community Development ggaines@westcarrollton.org
 2. Christian Mattingly- Director of Parks and Recreation cmattingly@westcarrollton.org
3. Two Day work session
 1. **Monday October 28, 2019 – All meetings at Cox Arboretum Fifth Third Room unless otherwise noted**
 1. 8:00- 8:30 AM Kick Off Meeting- Meet with core team
 2. 8:30-11:00 AM- Initial tour of the park
 3. 11:00-11:30- Quick Lunch/ Open House Set Up
 4. 11:30 AM till 1:30 PM-Public Open House Location: Cox Arboretum Visitor Center- 5/3rd Room
 5. 2:00-3:00 Meet with Key Volunteers
 6. 3:30-4:30 Meet with interpretive staff
 7. 4:30-5:30- Dinner
 8. 6:00 PM till 8:00 PM- Public Open House Location: Cox Arboretum Visitor Center 5/3rd Room
 2. **Tuesday October 29, 2019**
 1. 8:00-9:00 Meet with Program Staff -Mead Theater
 2. 9:00-10:00 Meet with Cox Foundation
 3. 10:30-12:00 Walking and tour of the park
 4. 12:00-1:00 Lunch and Team Discussions
 5. 1:30-2:30 Meet with Community Stakeholders
 6. 2:45-3:45 Meet with FRMP Operations Staff
 7. 4:00-5:00 Meet with core team for wrap up
4. Develop meeting notes
 1. Core team review and comment
5. Develop program
 1. Core team review and comment
6. Developed concept alternatives
 1. Presentation to the Core Team
 2. Core Team and Staff Comments
7. Develop Pre-final site plan
 1. Presentation to the Core Team
 2. Core Team and Staff Comments
8. Public feedback
 1. Public Open House
 1. Notified participants by email
 2. Posted meeting on social media and website
 2. Post Pre-final plan online for public comment
9. Final plan development
 1. Site Plan
 2. Capital Improvement Estimate
 3. Established 10 top priority projects
 4. Developed Projections
 1. Narratives and project cost estimates

1. Parks and Conservation
2. Programing and Interpretation
3. Business Operations
4. Public Safety
5. Philanthropy

October 28 & 29, 2019

Cox Arboretum MetroPark Master Plan

Staff Session: _____

[illegible]

Public Input Meeting Notes on Maps

- Coffee house in the old volunteer lounge with tables to watch BCCSH activity.
- Geothermal for the Visitor Center to fix AC and heating issues
- Accessible loop through natural area
- Dog related stuff, mini dog park??
- Trash can for side of shrub pond
- Like the picturesque qualities
- Exclude dogs on some trails
- Don't like dogs, especially on nature trails
- Healing
- Improve directional flow in parking lot
- Off leash fenced in area for dogs
- Paved path is great dog walking, dog doesn't like the large gravel on hiking trails
- Dog water fountain
- Trash can on shrub garden pond
- Like to I.D. trees as she walks through the woods
- Planning any new trails? Wants to do larger distance – wants to loop in the NW
- Like activities/programs/events regarding the arboretum – plants I.D.
- The path, allowing dogs, leaving the butterfly house open; best thing that have happened here recently
- The pollinator garden outside the butterfly house looks terrible. Used to be zinnias/natives/non-natives. Needs to be pretty. Too tall; used to have more butterflies there than in the house. The prairie serves that purpose. It's too much for the butterfly volunteers to care for.
- It's not clear to the public that they are welcome in the BCCSH
- We use lots of the MPs, but this one the most because of the paved trail and the ponds
- Keep infrastructure and keep doing what you're doing
- Paved walkways – we can walk in any weather
- More plant labels all, esp. in edible garden
- Love the swings
- Add fountains in the ponds!
- The architecture is excellent
- Need more benches placed along trails
- There are fewer squirrels than there used to be
- Keep identifying the trees with tags
- Offer horticulture walks
- Do exhibits like at Wegerzyn (daughterly project) seasonal exhibits outdoors
- Miss Café' Sci – would like to see more programs here for adults
- Wish there were more gardens, want my gardens to look like yours, label plants
- Not available when we love gardening programs
- Show labels that indicate they are good to have native pollinators, where to purchase
- Consider alternative entry way and welcome area for school groups
 - Bathroom
 - Nature Play

- Lunch Space
 - Back by where old Cox house was
- Make sure trail way finding is good stronger than you would think you'd need
- Make the trails comfortable for single women
- Biggest focus should be in dealing with invasive species esp. on trails
- Weekend/evening are best for educational programs
- Love the tree house
- Like non paved trails
- Desired tertiary trail connection to habitat condos
- Want mileage by segment in order to know custom route mileage
- Love to see connection to bike trail
- I love the tower
- Love all the pavers
 - Wheelchairs
 - Convenient to walk to vote
- Habitat condo residents like to use trail connection if more formalized
- Favorite think is the trails
- Registering ahead of time for volunteer work day had been more challenging than before when it was more welcoming to just show up. i.e. Make a Difference last Saturday
- Parkways
 - Lots of programming for kids
 - Not so much for adults
 - Natural and conservation area
 - Not as much at Cox
 - Wants thinking stretched
- Did not like ending Café Sci and haven't seen much going on replacing it
- Accessibility to main building after 5 pm even when program going on
 - Must walk to front door
- Arboretum plant based master plan
- Bird film for gallery windows and other windows
- Operational function of mowing while trying to conduct programs/field trips
- Singing Hills neighborhood is filled with kids, will now walk in via Vienna Pkwy crossing, less kids in Vienna neighborhood but also walking in look at access at new crossing
- Allow fishing access, could be big with more kids/families walking to park
- Supportive of culling program to maintain habitat
- Restrooms further out on the grounds
- Walking dogs is an improvement
- Would like the arboretum plant data base on line
- Another area for picnic, school groups could use
- Need an arboretum plan that focuses on the plants
- Learning lab works well for school tour volunteers
- More water fountains, trails good
- Last data base entry, September 2018, need to focus on this
- Collection of clematis, some in ELG
- Information on the native trees that are growing at the arb

- A focus on curation of collections – location, tags, plant health, etc. Accessible to internet for guests to locate species of interests considers staff time requirement for such a task. Current support for database not working
- Upper level education supply storage in visitor center to free up leaning lab for rentals
- More care for the collections
 - Skilled staff
 - Record keeping
 - Plan
- Look at mobile access intep. On trails specially to explain points of interest.
- Hate talking trees because they don't want to use tech here.
- Wants to see ID signage on plants even when not in BCCSH
- Summer Camps
 - 5 days and drop off
 - Go until end of work day for pick up
 - Start planning in February
- Hike for the Health of it, loved it and wishes it would come back
- Minor maintenance of trails, honeysuckle grows into the trails some
- Overall very satisfied
- Saw signage at park entrance
- Addition of dogs in park is good
- 741 light to exit park going north
- Escape onto nature trails, winter interest
- Facility rentals at Fifth Third
- Wider selection of plant material that grow best in our conditions
- Too much green
- Expand ELG using permaculture, nut/fruit trees, needs direction
- Corridor to create wider trails
- Clear prairie of woody and stack to create wildlife habitat
- Like stonework and wetlands
- Art/sculptures throughout grounds to attract more
- Restroom facility at tower/butterfly house
- Sometimes vegetation overgrowth on trails
- Coffee/snack shop, place for a quick bite, café inside/outside
- Limit to coming here more often having time
- Users not leaving having knowingly learned about sustainable hort., prairies, etc.
- Tower is favorite
- Winter seasonality
- More programming
- Home schoolers
- Like the current blend of developed area vs. woodland etc.
- Come here for healing
- Interp signs as a reading skill builder for children
- Scavenger hunts for kids
- Like the idea of an additional loop in the north woods
- Love the accessibility
- Did not know about woodland trails, wayfinding

- Re-post the maze sign (rules)
- App for points of interest
- Past history re: Cox Arboretum in the gallery/at an entrance
- Maze is too simple, signage to tell the story (purpose) of the maze
- Offer a passport for visitors to explore all the park!
- Offer scavenger hunts for youth, possibly a “seasonal” scavenger hunt
- Age appropriate “passport” specific to each park, activities, educational
- Always feels safe but will walk only when she feels it’s smart
- Points of interest that enhance the experience
- Gift shop missing
- Wild flower sale missing
- Not as many programs
- People don’t get that it’s an arboretum
- Accessibility good didn’t know there were trails in the woods
- Wayfinding signs need improvement
- Want to feel secure
- Have sort of an app to help know where you are
- Home schoolers served well
- Perhaps have a festival or 2 with food trucks. That will draw more people to Cox which will allow people who do not normally go to Cox to see what you have to offer.
- When leaving and pulling out on 741, have 2 lanes. So one can turn south (right) and the other can turn north (left)
- Add a picnic shelter back by the back pond. The pond that just had the new wall installed.
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Programming Input Meeting

Core Team:

Name	Title
<input checked="" type="checkbox"/> Alex Clark	Park Landscape Architect
<input checked="" type="checkbox"/> Amy Forsthoefel	Research/Analysis Manager
<input checked="" type="checkbox"/> Bernadette Whitworth	Historical & Cultural Resource Manager
<input type="checkbox"/> Beth Redden	Chief of Philanthropy
<input checked="" type="checkbox"/> Betty Hoevel	Education Coordinator
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<input checked="" type="checkbox"/> Eric Sauer	Planning Manager
<input checked="" type="checkbox"/> JoAnn Pennington	Events Coordinator
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<input checked="" type="checkbox"/> Joshua York	Education Coordinator
<input checked="" type="checkbox"/> Karen Hesser	Chief of Operations
<input checked="" type="checkbox"/> Katrina Arnold	Conservation and Nature Program Manager
<input checked="" type="checkbox"/> Kelly Wood	Horticulturalist
<input type="checkbox"/> Kristen Wicker	Marketing Manager
<input checked="" type="checkbox"/> Laura Stevens	Interpretation Coordinator
<input checked="" type="checkbox"/> Adrian Sargent	Lieutenant
<input checked="" type="checkbox"/> Mary Klunk	Conservation Manager
<input type="checkbox"/> Mindy Baxter	Administrative Assistant, Planning and Projects
<input checked="" type="checkbox"/> Yvonne Dunphe	Volunteer Coordinator

Attendees:

Jordan Hart, Outdoor Recreation Specialist
 Margaret Mueller, Outdoor Recreation Specialist
 Beth Burke, Interpretation Coordinator
 Amy Dingle, Outdoor Recreation Coordinator
 Erik Dahlstrom, Outdoor Recreation Coordinator
 Angela York, Outdoor Recreation Coordinator
 Kaitlyn Lowry, Education Coordinator, Possum Creek
 Shawna Balog, Education Specialist
 Andie Sheldon, Outdoor Recreation Coordinator
 Randy Ryberg, Outdoor Recreation Coordinator
 Lauren Asquith, Outdoor Education Education Specialist
 Kelly Kingery, Outdoor Recreation Program Specialist

Erin Rowekamp, Outdoor Education Apprentice

More rentals are needed to utilize the facility including corporate, Individual parties and weddings

There can be a conflict between programs and rentals, although it appears there is good coordination and communication happening now.

The size of the facility maxing out at about 120 is a limiting factor

The facilities can be booked twice in a day- IE program in the morning and a wedding in the evening. Would require appropriate staffing to prep the facility.

Learning lab is limited to about 25 people. Furnishings are difficult to use- tables are heavy

Mead Theater- Noise from the restrooms and hallway are an issue

The Arboretum needs better restroom facilities especially after hours when the Visitor Center is closed.

The Screen in the Mead can be a bit small for some presentations

Lighting in all meeting rooms is still an issue. It is too dim for demonstrations

Need to determine which takes a priority- Programs or rentals

The Mead Theater could be better utilized if the risers were removed to make the room more flexible

Wayfinding to the Learning Lab is an issue- especially related to restrooms

Typically, most programs are 50 or less, even smaller when gear is involved. 5/3rd room can feel too big with smaller groups

Need flex space that can get dirty

Cox Arboretum has a higher ability to draw larger crowds for programs than most other facilities.

Building hours are an issue. Need to be open during busy hours, or staff is present to answer phones but building is locked.

Buildings are great for private events because the buildings can be locked down.

Is there a need for a bride ready room?

The Family Get Growing Event works well by growing a large crowd and utilizes most of the facilities. (Betty Hoevel organizes)

There is a need to kits for families and home schoolers to check out and use on the grounds for activities

Gardening education no longer happens due to changes in staffing not from a lack of demand.

Allied Groups used to use the facility, but based on costs have had to move elsewhere.

Would you prefer a nice facility at Wegerzyn or a new facility at Medlar: unanimous for nice facility at Wegerzyn. Minorities and current audiences are willing to go there. What we really need is something at Englewood and Taylorsville. We should look a whole-agency facility plan

Need more natives close to the buildings so that school groups can experience that without too much walking—right now classes have to walk too far. Logs that they can roll over nearby, too. East side of the pond at gazebo—transition so something like the Red Wing shelter/boardwalk at CH

Toledo has a facility where they can segregate rest rooms and orientation from other parts of the building so that they can stay open and not interfere with rented spaces

524 hours/yr used by the 5th/3rd Room; Mead Theater 264 hrs/yr (Kelly will forward use data) Assuming 12 hours available per day for 350 days per year, that is a utilization of 12% and 6% respectively.

We need shady gathering places. All we have now is edible landscape garden pavilion—long walk. Outside the Butterfly House is another area they need it. 30 people, some seating—they need to think through what they need. Maybe shade at the nodes and a bench or two. That's what the nodes are for. Very little shade on the main loop.

There is demand from the public for “lower caliber” weddings in places we don't rent (or in our rentable spaces that aren't rented). Should we design a space for a small, pop-up wedding—create placemaking, like the gazebo (it's a long way away)? Amy F. brought it up; Joanne said she turns a blind eye because there isn't anything she can do.

BCCSH:

Isn't kid friendly—the tables are taller than the kids; we can't do seed packets. Adjustable height tables.

Challenge to make it work for operations and program audiences. Conflicts: it has to be clean all the time; the public will fuss with the plants; volunteers working can conflict with programs coming through;

Need interpretation; a couple audio boxes are coming per interp plan; consider a group of videos, seasonally focused (Beth was concerned with ability to upkeep)

The original conversation with the consultant (Topos Studio) addresses some of the conflicts using the Learning Lab—we should go back and look at those notes—we may have already solved this problem

Needs to have a welcome and orientation (kiosk with orientation and wayfinding coming in winter); we need orientation and wayfinding for the entire park

Conservation Kids programs in there are highly attended

Nobody wants to own the library space; it's not well-used (the hort staff has been diminished; the VC doesn't work there any more); no one knows where the card system for check out. It's big enough to use as a classroom; it's in transition right now. There needs to be more focused discussion on this area. The books: not used by staff, rarely used by volunteers (they're old), not well-used. Can we move them out and re-utilize the space. Unanimous that we can get rid of the books. Priority would be to improve user interface with the BCCSH.

Kettering Learning Lab: also not kid friendly; tables are too heavy for one person to move. What if we added 2-3 stalls there and made it a public/orientation space. (Might be great to attract people to the BCCSH)

Education supplies are stored in the Kettering Learning Lab; not convenient for programming staff, esp. because they can't see the buses when school programs are coming. Space in the former store would be ideal. (check Joshua for details)

Seems like we need to evaluate the use capacity of each room.

Keep in mind that someday there will be a bike path to Moraine

Would like the trams to be able to do a loop—need the wide path to go all the way around

We need to work with RTA to create good access from their stops

Operations Input Meeting

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<input checked="" type="checkbox"/> Mindy Baxter	Administrative Assistant, Planning and Projects
<input checked="" type="checkbox"/> Yvonne Dunphe	Volunteer Coordinator

Attendees:

Beth Burke, Interpretation Coordinator
Ramon Watson, Park Technician
Amy Sellers, Horticulture Technician
Katherine Stonehill, Horticulture Technician
Brain Malin, Horticulture Technician
Tom Leatherman, Park Technician
Adam Dietsch, Park Manager, Island/Sunrise
Barb Farrell, Administrative Assistant
Derik Sloan, Park Technician
Zach Schutte, Seasonal Park Technician

Notes:

It would be nice to have a restroom in towards the back of the park, near tree tower or butterfly house.

Installed raised bed in the ELG

- Helps volunteers
- Less maintenance (weeds, grass)
- Better soil (produce, grass)

Gravel pathway around maintenance areas needs paved

Better signage on ELG fence to invite visitors inside

Better signage on door in the Zorniger concerning hours of facility

Zorniger glass doors are not energy efficient

- Cold
- Walkway goes nowhere
- Get rid of the 2 doors on one side

Picnic Shelter (old Cox House??)

- Least visited area
- Help bring people back there

Split on Rock garden

- Should we remove it and add a picnic shelter
- Keep it and take better care of it

Recruit Volunteers

- Reach out to colleges
- Retirees
- Younger folks needed
- Episodic groups

Provide different projects in off season, easier to get larger group of episodic to work on a larger project.

Provide nice space for volunteers to meet/connect.

Less volunteers = more staff needed

Irrigation concerns

- Staff spends a lot of time watering
- Tie in drip lines vs. Kabota with water tank
- Need map of water system and line that run throughout the park
- Put the above group hydrants underground
 - Public is turning it on and leaving it on

Remove the 17 crabapples that are failing and extend prairie by maintenance area

There are two other areas that we could do this

- This would provide less maintenance for Cox staff

Provide feeding stations for birds in winter months

- Bird boxes

Provide native plants by drain area near 741 instead of string trimming it

Determine the audience of Cox: park vs. arboretum

Change the lawn to a more natural appearance

Make Butterfly house a permanent structure connect arbor to butterfly house with a pathway
Try to get away from insecticide/herbicide use, looks bad that staff walk around with white safety suits on

More sustainability in the buildings, efficiency

Better AC/Heat systems in the buildings

Gate for main drive when it snows to be able to close the park and safely shovel/plow snow.

Include Tim in talks about a composting pad.

Key Volunteers Input Meeting

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<input checked="" type="checkbox"/> Yvonne Dunphe	Volunteer Coordinator

Attendees:

Judy Knight judymmknight@yahoo.com

Gary Courts mrcourts@aol.com

Marshall Goodfellow centervillestar@gmail.com

Shirley Younkin syounkin@hotmail.com

Tony Pope 937- 433- 5795

Jenny Andary

Notes:

Need to keep the volunteers in the loop on master planning issues including progress

Volunteers enjoy the social aspect of volunteering including the kick off meetings, connecting with staff.

Need more volunteers to complete current work demands

Would like to see more diversity in volunteer group makeup

Like to learn and not just pull weeds

Goal for volunteering: Come here to learn!

Specific physical issues:

- Iris garden is no longer working

- Bee Meadow needs some attention

- The red maple border has been absorbed by the natural areas

- Magnolias need renovation

- Crabapple test plots are no longer good

- Losing a lot of the old conifers in the conifer collection. Soils not great for many conifers, especially spruce with wet soils in the winter

- Paths in wildflowers area need maintenance

Would like to see more trees and cultivars that do well in the Miami Valley

Opportunities for home school students- activity packets

Have another restroom back by the tree tower for kids and older folks between tree tower and nature play

Greenhouse door #3 needs the hold and stop fixed

Give ownership to volunteers, provide signage "this area maintained by volunteers"

Key Volunteers Input Meeting

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Attendees:

sharyl hopton marigold046@hotmail.com
Nancy Duffy nursenduffy@yahoo.com
Patti Russell-Campbell pattipooper50@gmail.com
Judy Day judyd0914@yahoo.com
Jenny Carroll jenny@mikeandjenny.com
Lou Homan milohoman@yahoo.com
Susan Witherspoon SKWDayton@aol.com
Kristi Sherman Marshall
Marshall Goodfellow

Notes:

There is a concern about volunteers aging out and the need to engage and recruit younger volunteers.

Volunteers used to take trips together to locations of similar interest like other gardens and arboretums.

One of the main reasons for volunteering is the social aspect- to build a community and friendships.

Volunteers tend to “adopt” areas of interest- the stonewall is different than the rock garden and there is different expertise that each group has.

The Iris garden is in need of a re-do- Especially to handle the stream and water flow.

Another reason for volunteering is the education component. There used to be classes for volunteers to build skills and knowledge. Offered by both outside and staff experts.

Master Gardeners need to provide service hours but many are restricted to education based time or to serve as a team lead.

Friendships between staff and other volunteers is important and activities like the soups on or volunteer potluck are really important.

The luminary event was another community building event

Many kids need to provide service hours for school

Have lost the ability for wildflower group to work Saturdays since staff is required to be a part of the work event.

Volunteers are searching out other educational opportunities and sometimes leaving to serve at those sources.

Volunteers see the same visitors on a regular basis but have no meaningful way to engage them as potential volunteers

Other gardens use signage that credits volunteers with the efforts of maintaining the place- Sayings like this park or garden area would not be possible without our volunteers

Butterfly House- Grow visitors into volunteers.

Need experienced mentors to teach new volunteers. Can be overwhelming with all the information in the butterfly house area. Also need to have a wide range of experience levels in volunteers to keep this area growing

Would like to see visitors given the opportunity to make the bigger connection between gardens, home landscape and the larger ecosystem

Take advantage of learning from the land- ELG as an example.

Using containers, raised beds and companion plantings

Volunteering seems like learning has stopped and it is only work

Volunteers would like to be more involved with planning things like ordering seeds

Look at heavier education opportunities during off season times. Happy to learn from staff and teach staff with occasional outside experts.

Love the World of Gardening Day

Education sessions can be short but also need a variety so that there is some cross over into other areas- IE ELG learn rock garden techniques, etc.

Understand that education sessions can cost, but maybe volunteer hours can create credits to attend some classes in lieu of a small fee for others. Discussed the new VIP Credit program being rolled out.

Volunteers feel that coordination with staff is good.

Remember that volunteers can also teach and have significant expertise

Tuesday work days offer the ability to move around to do different tasks is a good thing

Volunteers miss the old herb garden.

Need to continue to work on soil issues at the arboretum.

What about ideas that have been seen at other places that could be brought to Cox Arboretum?

Chalkboard with vases- Cut blooms and write names and where they can be found for seasonal interest.

Ability to post on MetroParks Facebook – photos that volunteers take in the parks of interest.

Butterfly House- Better plant id's combined with butterfly information- can be done in a binder and not with more tags. People want to know what to grow to attract types of butterflies.

How can we engage staff and volunteers to plan and produce to build teams and get the work load off of staff?

Look at Wildflower Rescue in a more robust manner- Used to do Friday and Saturdays – digging and rescuing plants. That was educational in itself.

Woodland wildflowers are especially hard to get- Cox wildflower sale provided both education and source for these types of plants. Look at other existing opportunities as an outlet as opposed to a free standing sale.

Visitors want to know what plants are- The tags are great but most people do not realize they exist.

The shepherd hooks signs are great!

Cox Arboretum is a beauty within the city- There are many critters and a variety of gardens to see and experience.

Cox is an integration of a functional connected system – need to show the novice visitor why it works the way it does or why it needs to be done the way it is done

IE Organics in the ELG

Make more of an emphasis on recreation and horticultural education- Currently feels very “corporate” not individual and social- Cox has lost its individuality becoming more of just another MetroPark. This happened as a cultural shift.

Need to be aware that parkways are not getting to apartments and condos

Cox Arboretum is a place for plants and to see what they look like when they grow up. It is a place for showing and teaching.

Cox Arboretum is a gateway place but also a place for advanced education

Compost corner needs to be re-invented. It is neglected- The best part is the sign on the back side. It has probably run its course.

The volunteer newsletter has too much information across the agency- Would like it to be more geared towards individual parks.

Need to enhance and increase the personal connections.

Overall, Cox Arboretum looks amazing!

Interpretive Input Meeting

Core Team:

Name	Title
<input checked="" type="checkbox"/> Alex Clark	Park Landscape Architect
<input checked="" type="checkbox"/> Amy Forsthoefel	Research/Analysis Manager
<input checked="" type="checkbox"/> Bernadette Whitworth	Historical & Cultural Resource Manager
<input type="checkbox"/> Beth Redden	Chief of Philanthropy
<input checked="" type="checkbox"/> Betty Hoevel	Education Coordinator
<input checked="" type="checkbox"/> Brandon Thompson	Site Leader
<input checked="" type="checkbox"/> Brent Anslinger	Outdoor Recreation Program Manager
<input checked="" type="checkbox"/> Candy Holloway	Volunteer Coordinator
<input checked="" type="checkbox"/> Carrie Scarff	Chief of Planning and Projects
<input checked="" type="checkbox"/> Chris Pion	Director of Parks and Conservation
<input checked="" type="checkbox"/> Eric Sauer	Planning Manager
<input checked="" type="checkbox"/> JoAnn Pennington	Events Coordinator
<input checked="" type="checkbox"/> Joe Morrison	Regional Manager
<input checked="" type="checkbox"/> Joshua York	Education Coordinator
<input checked="" type="checkbox"/> Karen Hesser	Chief of Operations
<input checked="" type="checkbox"/> Katrina Arnold	Conservation and Nature Program Manager
<input checked="" type="checkbox"/> Kelly Wood	Horticulturalist
<input checked="" type="checkbox"/> Laura Stevens	Interpretation Coordinator
<input type="checkbox"/> Adrian Sargent	Lieutenant
<input type="checkbox"/> Mary Klunk	Conservation Manager
<input type="checkbox"/> Mindy Baxter	Administrative Assistant, Planning and Projects
<input checked="" type="checkbox"/> Yvonne Dunphe	Volunteer Coordinator

Attendees:

Beth Burke, Interpretation Coordinator

Notes:

The Butterfly House can expand its message beyond caterpillars to butterflies to include things like use of pesticides

Cox Arboretum should encourage visitors to experience something at the Arboretum and provide links for similar but bigger experiences at other parks.

Cox Arboretum is a window to other MetroParks (Sampler)

Prairies, woods, fossils

Need more learn here and then take and do at home

Is Cox Arboretum a park or an arboretum?

Visitors don't really know what to do or how to move around in many area – we need to get them comfortable

Many visitors bring friends to relax and show off the park

The Arboretum needs to work more on getting people to be a part of nature- make sure we get rid of the don'ts

It is more park like- OK to walk on the grass

Need more gardens that translate to home landscapes

It is an accessible nature experience

Cox Arboretum is a learning landscaping arboretum

Old tag lines that may be again relevant:

Escape, Discover, Grow

Cultivate Wonder

Look at ways to transition from native to cultivated- Changing aesthetics

Current Audiences:

Picture takers

Picnics

Weddings

Walkers

Dog Walkers

Stroller walkers (groups of them as well)

Disabled groups- Nursing/ retirement homes bringing groups

Feeding wildlife- fish, ducks, turtles- Interacting with wildlife

Future Audiences:

New Homeowners/ new retirees dealing with home landscapes/ gardening

Horticultural industry- designers

Nursery industry- long slow turn of the ship to focus on natives

Lost Audiences:

Adult learners

Figure out how to get visitors to “drink the conservation cool-aide”

Look for ways to learn across the landscape

Look for partnerships such as Cincinnati Zoo or Aullwood Audubon

How do we handle the BCCSH? Is it the central education piece?

Start here and goes out from the center into the park(s)

Figure out ways to integrate visitors with experiences

Cox Arboretum Foundation Input Meeting

Core Team: (Core team was reduced for this meeting by request)

Name	Title
<input type="checkbox"/> Alex Clark	Park Landscape Architect
<input type="checkbox"/> Amy Forsthoefel	Research/Analysis Manager
<input type="checkbox"/> Bernadette Whitworth	Historical & Cultural Resource Manager
<input checked="" type="checkbox"/> Beth Redden	Chief of Philanthropy
<input type="checkbox"/> Betty Hoevel	Education Coordinator
<input type="checkbox"/> Brandon Thompson	Site Leader
<input type="checkbox"/> Brent Anslinger	Outdoor Recreation Program Manager
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<input checked="" type="checkbox"/> Laura Stevens	Interpretation Coordinator
<input type="checkbox"/> Adrian Sargent	Lieutenant
<input type="checkbox"/> Mary Klunk	Conservation Manager
<input type="checkbox"/> Mindy Baxter	Administrative Assistant, Planning and Projects
<input type="checkbox"/> Yvonne Dunphe	Volunteer Coordinator

Attendees:

Brenda Cox, Philanthropy Manager
Elise Hafenbrack
Alan Brown
Jason Eckert
Paul Schlottman
Valerie White
Melinda Moore

Notes:

Butterfly House-

Is there a house or does it need to be more of a garden?

Needs to be an environmental gateway

Look at more pollinators in general- include bees

See younger generations as more purpose driven- need to adapt to them

Look at collective impacts for the bigger picture

The Arboretum needs to fix mis-information- Carry the torch on correct information and the right way to do things

Reasons for the Foundation Board to serve:

- 8 Year old can focus at the Arboretum

- Children's connections to nature

- Need to protect and preserve this gem in the Miami Valley

- Girl and Boy Scout outings- Getting badges at the Arboretum

- Love the mission- Sitting in an urban environment and the Arboretum provides the place where kids can connect with nature

- Great backdrop for photos

- Place where all can de-compress from life

The Arboretum needs to be a place that teaches how to live healthier lives-

- Thai-Chi or Yoga in the butterfly garden or next to the waterfall

Tell the conservation story!

There is a story that shows how the park and conservation is contrary to the ills of the past like super fund sites

Issues that they see with the current facility-

- Sometimes too small- only 120 person capability

- Threat of many other new rental facilities

- With the introduction of dogs, need waste stations and water sources

- Need to build a better awareness- Many drive by and don't know about it

Would be great to provide an orientation app from the top of the tower- what are they seeing, What might have been seen historically (Wright Brothers) or what could have been seen if the Arboretum had been a housing development as was first proposed

Look for ways for visitors to "take it home" – How to translate what they learn and implement it at home.

Cox Arboretum Wrap Up Input Meeting

Core Team:

Name	Title
<input checked="" type="checkbox"/> Alex Clark	Park Landscape Architect
<input checked="" type="checkbox"/> Amy Forsthoefel	Research/Analysis Manager
<input checked="" type="checkbox"/> Bernadette Whitworth	Historical & Cultural Resource Manager
<input type="checkbox"/> Beth Redden	Chief of Philanthropy
<input checked="" type="checkbox"/> Betty Hoevel	Education Coordinator
<input checked="" type="checkbox"/> Brandon Thompson	Site Leader
<input checked="" type="checkbox"/> Brent Anslinger	Outdoor Recreation Program Manager
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<input checked="" type="checkbox"/> Laura Stevens	Interpretation Coordinator
<input checked="" type="checkbox"/> Adrian Sargent	Lieutenant
<input checked="" type="checkbox"/> Mary Klunk	Conservation Manager
<input checked="" type="checkbox"/> Mindy Baxter	Administrative Assistant, Planning and Projects
<input checked="" type="checkbox"/> Yvonne Dunphe	Volunteer Coordinator

Notes:

The Butterfly House was discussed- Reviewed the input received from the Cox Foundation- Needs to be a dedicated design process – May or may not include a “house”

Staff take-aways from the input meetings:

Need to develop the experience- What is the flow?

What is the take away that we want visitors to have

The trails need to be made better and become better utilized to take advantage of the natural areas of the park

Volunteering- This is changing from long term regular volunteers- Need to look at how the amount of labor (143 hours per week) that volunteers provide is going to be sustained or replaced

Composting- How is this going to be handled in the future? What is it going to become? Could the visitor center become a test?

Need a single point of entry to the Arboretum to direct visitors to the experience we want them to have

What about fishing in the park? Maybe limited to youth or limited times

What is the Arboretum striving to be?

Need to look at building hours to meet the needs of visitors

Activating the BCCSH

Is Cox an arboretum or a park? Need to define the audience

Need to remember that each park cannot be all things to all people- Typology

Look at the flow through the buildings

Storage- Get the right amount in the right places

Look at a front gate- provide the ability to close the park as needed but likely not on a nightly basis

How is the front ditch handled- How do we reduce operations hours while still maintaining a good look

Need to address watering- Automatic irrigation, hose bibs

Address paver edges failing

Continue to manage the shift from volunteer managed areas to FRMP oversight utilizing volunteers

Is there the opportunity now to become a "MetroPark"

This is a great stage to tell the MetroPark story of conservation

Opportunity to explore partnerships

Tell the story of how far we have come related to sustainability but how far we have yet to go

Buildings not open to the public when the public needs them- Act like Grandma's curio cabinet- look but don't touch

This is a place where trees grow- lets let the trees grow and tell the community about it

The Arboretum is still having an identity crisis- Need to resolve that

We need to pull visitors into the beautiful park and then teach them while they are here

Cox Arboretum MetroPark Master Plan

Survey Input- 75 Responses

What activities do you do when you visit: (select up to 3) (What improvements would encourage more use)

Enjoy Nature and be outdoors/ Wildlife observations- 60 (49 -Extremely or very Important)

Use a trail – 57 (46 -Extremely or very Important)

Relax/ unwind- 38 (37 -Extremely or very Important)

Find Solitude – 23 (37 -Extremely or very Important)

Nature Play/ Children's play- 15 (17 -Extremely or very Important)

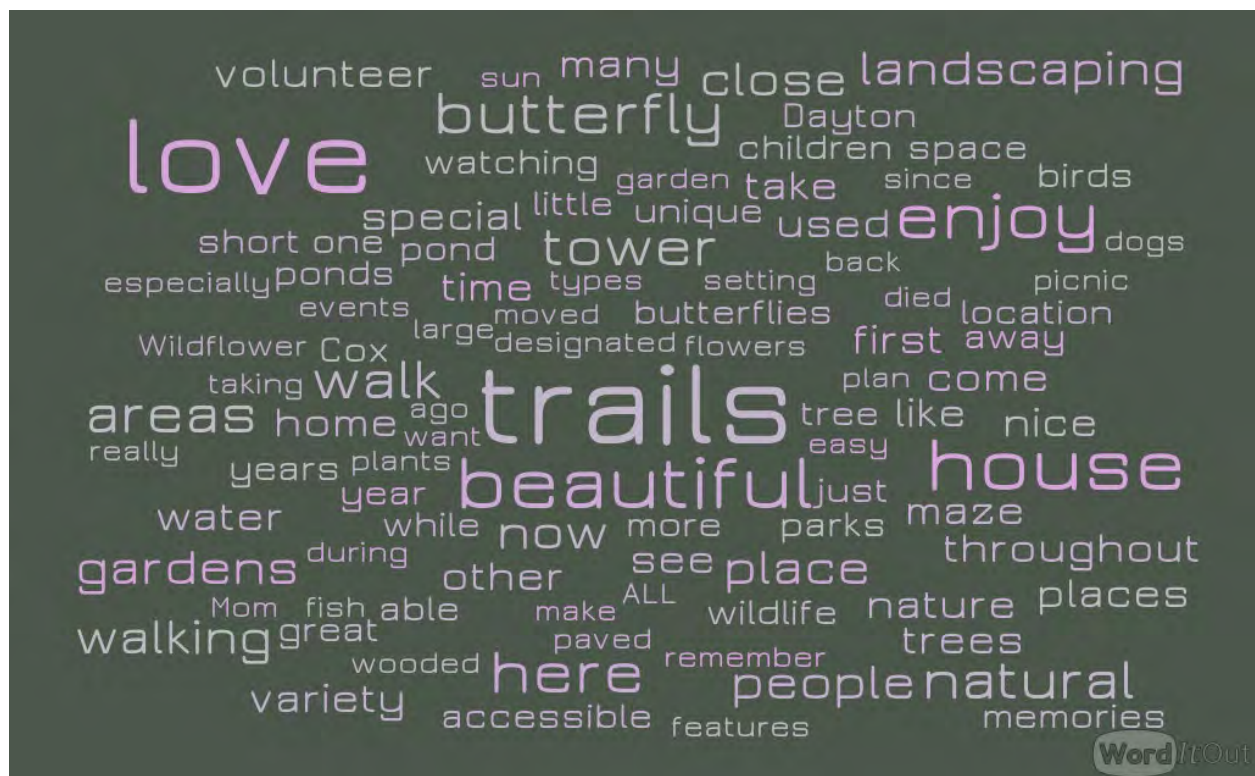
Participate in a program – 14 (21-Extremely or very Important)

Exercise/ Fitness- 12 (17 -Extremely or very Important)

Socialize with family and friends- 11

Picnic- 8 (5 -(Food Concessions) Extremely or very Important)

What makes Cox Arboretum special to you?



[illegible][illegible]

Program Elements for Discussion

- **Define the overall purpose and organizing theme for Cox Arboretum- What is the function, vision and purpose of Cox Arboretum MetroPark?**
 - Define the purpose and vision of the MetroPark
 - Explore opportunities to connect horticulture and nature to the community and especially younger generations
 - Explore opportunities to expand the production of native species of trees, shrubs and native wildflowers
 - Explore opportunities to provide sources of native species to the region beyond the MetroParks (Either produced at the BCCSH or other local sources)
 - Explore accreditation as an arboretum
 - Explore opportunities to make the MetroPark “the” source in the region for accurate information related to native and sustainable plant horticulture and ecology
 - Explore opportunities for visitors to take information away and implement it on their own property
 - Explore how plantings and programming at Cox Arboretum can create a culture for visitors as a “learning landscaping arboretum” to demonstrate key messages and themes related to ecology and horticulture
 - Explore ways to help the public learn about which plants, including native, naturalized and non-invasive plants perform well or in a sustainable manner in the Miami Valley
 - Explore ways to recapture adult learners
 - Explore opportunities to partner with green industry professionals
 - Explore ways to use the MetroPark to drive the conversation about the norms related to the acceptable aesthetic of what is considered a beautiful landscape is in the region including:
 - Fully native landscapes
 - Sustainable lawns
 - Integrated ornamental and native landscapes
 - Ensure the MetroPark continues to be a place for the community to come and recharge and celebrate
 - Explore opportunities to use Cox Arboretum as an introduction to other MetroParks’ habitats including:
 - Prairies
 - Woods and forests
 - Fossils (geology)

- **Define the overall design organization of the MetroPark**
 - Typology
 - Community Park
 - Offer a variety of experiences, require more resources, not closely connected
 - Define the overall design concept for Cox Arboretum. Some options include:
 - A collection of plants (arboretum)
 - A series of display gardens/ landscapes (botanic garden)
 - A park with a horticultural and/ or educational focus (MetroPark)
 - Define the visitor experience
 - Define the visitor flow through the park including:
 - Access to after-hours restrooms)
 - Goal of the visit
 - Define the take-away for the visitor
 - Define how the overall organization of the park is used to attract and teach visitors about defined concepts that they can implement
 - Explore ways that native plants are integrated into the developed areas
- Define how the overall mission, vision and purpose of Five Rivers MetroParks are integrated into the park and communicated to park visitors so that they can implement them
 - **FRMP Mission**
 - Protect the region's natural heritage and provide outdoor experiences that inspire a personal connection with nature.
 - **FRMP Vision**
 - To be the conservation leader of a vital, active, nature-based community.
 - **FRMP Purpose**
 - The purpose of Five Rivers MetroParks is to protect natural areas, parks and river corridors, and to promote the conservation and use of these lands and waterways for the ongoing benefit of the people in the region.
 - **FRMP Values**
 - Collaboration, Commitment, Community, Excellence, Fun, Diversity, Fiscal Responsibility, Innovation, Integrity, Professional Growth, Respect, Sustainability



NORTH

Cox Arboretum Master Plan Final Site Plan

October 2020





Cox Arboretum Master Plan Final Site Plan- Campus Plan



Cox Arboretum Master Plan Final Site Plan- Butterfly Garden Plan

August 2020





Cox Arboretum Master Plan Final Site Plan- Core Area Plan

August 2020





Cox Arboretum Master Plan Final Site Plan- Trail Plan

October 2020

COX ARBORETUM METROPARK

182.11 acres

Cox Arboretum contains significant natural areas including two high quality mature woodlots, dense cedar glades, succession areas (containing an abundance of Dogwood and Redbud trees), planted tallgrass prairie, and created wetlands.

GOALS

1. To protect the existing mature woodlands. Management of honeysuckle and other invasive species in all habitats as designated.
2. To assure adequate meadow and prairie habitat for the continuation of the processes of grassland ecology.
3. To maintain sufficient edge/thicket habitat, a transitional habitat important to many types of wildlife. Reintroduction of native shrubs in designated areas to promote re-establishment of these species.
4. To manage the 13-acre area called Conservation Corner as a demonstration area for implementing and interpreting Conservation plans. This area contains tallgrass prairie, edge/thicket, and two created wetlands.
5. To manage a reforestation zone north of the Tower to demonstrate effective restoration of forest land for biodiversity
6. To manage the existing ponds to maintain healthy wildlife populations while maintaining an aesthetically pleasing image to the formal sections of the Arboretum.
7. To design and maintain hiking trails to maximize the experience of the user and integrity of the managed habitats.



- Legend
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 - EASEMENT
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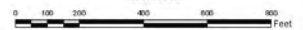


Cox Arboretum MetroPark

Date Exported 10/29/2020 11:35 AM

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Scale 1:2,000



Cox Arboretum	K47 02406 0026	K47 02406 0026	Montgomery
Cox Arboretum	K45 02406 0029	K45 02406 0029	Montgomery
Cox Arboretum	K45 02406 0030	K45 02406 0030	Montgomery
Cox Arboretum	K45 02406 0028	K45 02406 0028	Montgomery
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Cox Arboretum	K45 02406 0015	K45 02406 0015	Montgomery
Cox Arboretum	K45 02406 0010	K45 02406 0010	Montgomery
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Cox Arboretum	K45 02406 0008	K45 02406 0008	Montgomery
Cox Arboretum	K45 02406 0014	K45 02406 0014	Montgomery
Cox Arboretum	K45 02406 0009	K45 02406 0009	Montgomery
Miamisburg School District	K46 01316 0072	K46 01316 0072	Montgomery

Community Park	Community Park	12/28/72	164.51	29.8990	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		4.5300	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		4.4100	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		4.4100	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		1.1820	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		39.8470	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		3.9200	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		20.2100	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		31.7900	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		26.6270	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		0.1080	Cox Arboretum	DONATION	OWN
Community Park	Community Park	12/28/72		26.6270	Cox Arboretum	DONATION	OWN
Community Park	Community Park	4/16/98	17.60	21.5500	Cox Arboretum	PURCHASE	OWN



Cox Arboretum MetroPark 2019 Master Plan

Estimated Probable Cost of Construction

11/10/2020

Insert assumptions or overall general notes here

Item Description	Line Item Notes and Assumptions	Qty	Unit	Unit Price	Total
Create new reservable space and offices for Outdoor Connections					
Public Building, Meeting Space, Visitor Center- Renovation		1170.0	SF	\$ 125.00	\$ 146,250.00
Building FFE		1.0	LS	\$ 10,000.00	\$ 10,000.00
	Permits and General Conditions - 8%			\$	12,500.00
	Design Fees - 10%			\$	15,625.00
	Design Level Contingency - 20%			\$	31,250.00
Sub-Total Reservable Space for O.C. Improvements				\$	215,625.00
Add Rear and side patio spaces to Zorniger Visitor Center					
Pavement Demolition		700.0	SY	\$ 10.00	\$ 7,000.00
General Grading, Cut and Fill, No Haul		150.0	CY	\$ 20.00	\$ 3,000.00
Walkways and Plazas, Pavers (Includes Plaza, relocated walkways, additional rear walkway and Stone Seating)		9500.0	SF	\$ 20.00	\$ 190,000.00
Electric and Lighting		1.0	LS	\$ 25,000.00	\$ 25,000.00
Boulders, Placed for Seating, Light Duty Retaining, Fishing Access		400.0	Ton	\$ 250.00	\$ 100,000.00
Seat Walls, Mortared Stone on Footer		155.0	LF	\$ 300.00	\$ 46,500.00
Site Furnishings, Shade Structures, Pergolas (Awning)		1.0	LS	\$ 65,000.00	\$ 65,000.00
Site Furnishings, General- Benches, Trash Cans, Installed		1.0	LS	\$ 45,000.00	\$ 45,000.00
Tree Planting, 2-1/2 to 3"		22.0	EA	\$ 600.00	\$ 13,200.00
Lawn Seeding, Including Final Site Prep		500.0	SY	\$ 3.00	\$ 1,500.00
	Permits and General Conditions - 8%			\$	39,696.00
	Design Fees - 10%			\$	49,620.00
	Design Level Contingency - 20%			\$	99,240.00
Sub-Total Zorniger Center Patios and Walkways Improvements				\$	684,756.00
Develop Nature Play Area Phase 1					
Nature Play Area- Large, Designed & constructed		1.0	LS	\$ 23,189.00	\$ 23,189.00
	Permits and General Conditions - 8%			\$	1,855.12
	Design Fees - 10%			\$	2,318.90

Design Level Contingency - 20%	\$	4,637.80
Sub-Total Nature Play Area Phase 1 Improvements	\$	32,000.82

Install new partition walls and exterior walls and install new restrooms at the Zorniger Visitor Center

Site Utilities- Electric (Underground)	250.0	LF	\$	50.00	\$	12,500.00
Site Utilities- Gas (Underground)	200.0	LF	\$	50.00	\$	10,000.00
Site Utilities- Sanitary	200.0	LF	\$	85.00	\$	17,000.00
Public Building, Meeting Space, Visitor Center- Renovation- Restrooms	650.0	SF	\$	350.00	\$	227,500.00
Public Building, Meeting Space, Visitor Center- Renovation- Partition Walls	120.0	LF	\$	1,250.00	\$	150,000.00
General Trail Wayfinding and Regulatory Signage	1.0	LS	\$	500.00	\$	500.00

Permits and General Conditions - 8%	\$	33,400.00
Design Fees - 10%	\$	41,750.00
Design Level Contingency - 20%	\$	83,500.00
Sub-Total Restrooms and Partition Walls Improvements	\$	576,150.00

Transition the Butterfly house to the Pollinator Garden including Installing new restroom

Building Demolition	1.0	LS	\$	1,000.00	\$	1,000.00
Restroom- Vault, 4 stall, Installed with pavillion space	1.0	EA	\$	175,000.00	\$	175,000.00
Site Furnishings, General- Benches, Trash Cans, Installed	1.0	LS	\$	7,500.00	\$	7,500.00
Public Artwork	1.0	LS	\$	75,000.00	\$	75,000.00
Interpretive Signage	1.0	EA	\$	25,000.00	\$	25,000.00
General Trail Wayfinding and Regulatory Signage	1.0	LS	\$	1,000.00	\$	1,000.00
Plantings: Display and Educational Gardens	3000.0	SY	\$	35.00	\$	105,000.00
Tree Planting, 2-1/2 to 3"	10.0	EA	\$	600.00	\$	6,000.00

Permits and General Conditions - 8%	\$	31,640.00
Design Fees - 10%	\$	39,550.00
Design Level Contingency - 20%	\$	79,100.00
Sub-Total Butterfly House to Pollinator Garden Improvements	\$	545,790.00

Make connections between SR 741 and the MetroPark

Clearing and Grubbing	1.0	LS	\$	1,000.00	\$	1,000.00
General Grading, Cut and Fill, No Haul	200.0	CY	\$	20.00	\$	4,000.00
Walkways and Plazas, Concrete	5000.0	SF	\$	10.00	\$	50,000.00
Park Entry Signage	2.0	EA	\$	3,000.00	\$	6,000.00
General Trail Wayfinding and Regulatory Signage	1.0	LS	\$	1,000.00	\$	1,000.00
Site Furnishings, General- Benches, Trash Cans, Installed	1.0	LS	\$	10,000.00	\$	10,000.00
Fencing, Decorative or Metal	100.0	LF	\$	65.00	\$	6,500.00
Tree Planting, 2-1/2 to 3"	5.0	EA	\$	600.00	\$	3,000.00
Lawn Seeding, Including Final Site Prep	1000.0	SY	\$	3.00	\$	3,000.00

Permits and General Conditions - 8%	\$	6,760.00
Design Fees - 10%	\$	8,450.00
Design Level Contingency - 20%	\$	16,900.00
Sub-Total Connect to 741 Improvements	\$	116,610.00

Update the Bird Blind

Clearing and Grubbing	1.0	LS	\$	7,500.00	\$	7,500.00
General Grading, Cut and Fill, No Haul	50.0	CY	\$	20.00	\$	1,000.00
Observation Platform, Overlooks, Constructed	1.0	LS	\$	75,000.00	\$	75,000.00
Boardwalk	1000.0	SF	\$	65.00	\$	65,000.00
Interpretive Signage	1.0	EA	\$	10,000.00	\$	10,000.00
General Trail Wayfinding and Regulatory Signage	1.0	LS	\$	1,000.00	\$	1,000.00
Tree Planting, 2-1/2 to 3"	10.0	EA	\$	600.00	\$	6,000.00

Permits and General Conditions - 8% \$ 13,240.00

Design Fees - 10% \$ 16,550.00

Design Level Contingency - 20% \$ 33,100.00

Sub-Total Update Bird Blind Improvements \$ 228,390.00

Update the Shrub Garden Pavilion

General Grading, Cut and Fill, No Haul	150.0	CY	\$	20.00	\$	3,000.00
Shelter- Small 20'x25' (Up to 25 Users), Installed, Includes Picnic Tables, Grill, Trash, Games	1.0	EA	\$	50,000.00	\$	50,000.00
Boulders, Placed for Seating, Light Duty Retaining, Fishing Access	50.0	Ton	\$	750.00	\$	37,500.00
Walkways and Plazas, Pavers	1000.0	SF	\$	22.00	\$	22,000.00
Aggregate Surface Trail 30' x 10'	35.0	SY	\$	35.00	\$	1,225.00

Permits and General Conditions - 8% \$ 9,098.00

Design Fees - 10% \$ 11,372.50

Design Level Contingency - 20% \$ 22,745.00

Update Shrub Garden Pavillion Improvements \$ 156,940.50

Renovate the Maze Garden

Clearing and Grubbing	1.0	LS	\$	9,500.00	\$	9,500.00
Site Utilities- Storm Pipe	250.0	LS	\$	20.00	\$	5,000.00
Walkways and Plazas, Concrete Repair	500.0	SF	\$	10.00	\$	5,000.00
General Horticultural Display Plantings, Foundation Plantings, Signage Plantings	10625.0	SF	\$	8.00	\$	85,000.00
Interpretive Signage	1.0	EA	\$	6,500.00	\$	6,500.00

Permits and General Conditions - 8% \$ 8,880.00

Design Fees - 10% \$ 11,100.00

Design Level Contingency - 20% \$ 22,200.00

Sub-Total Renovate the Maze Garden Improvements \$ 153,180.00

Design and Install new multi-use trail through the park

Clearing and Grubbing	1.0	LS	\$	7,500.00	\$	7,500.00
General Grading, Cut and Fill, No Haul	1400.0	CY	\$	20.00	\$	28,000.00
Paved Trail, Asphalt, Includes Base	4200.0	SY	\$	75.00	\$	315,000.00
General Wayfinding or Traffic Signage	1.0	LS	\$	15,000.00	\$	15,000.00
Site Furnishings, Shade Structures, Pergolas- Bike Shelter, bollards, bike racks	1.0	LS	\$	75,000.00	\$	75,000.00
Tree Planting, 2-1/2 to 3"	40.0	EA	\$	600.00	\$	24,000.00

Permits and General Conditions - 8% \$ 37,160.00

Design Fees - 10% \$ 46,450.00

Design Level Contingency - 20%	\$	92,900.00
Multi-Use Trail Improvements	\$	641,010.00

Unit Costs to be used Above

Demolition

Pavement Demolition	1.0	SY	\$	10.00	\$	10.00
Building Demolition (Total Standing Volume- HxWxD)	1.0	CF	\$	0.50	\$	0.50
Clearing and Grubbing	1.0	LS	\$	1.00	\$	1.00
Other Demolition	1.0	LS	\$	1.00	\$	1.00

Site Preparation and Utilities

General Grading, Cut and Fill, No Haul	1.0	CY	\$	20.00	\$	20.00
General Grading, Finish Grading	1.0	SY	\$	3.00	\$	3.00
Sediment and Erosion Control	1.0	LS	\$	1.00	\$	1.00
Pond/ Lake Shaping, Grading, Dredging	1.0	CY	\$	24.00	\$	24.00
BioSwale and Rain Garden Soil and Drainage	1.0	CY	\$	65.00	\$	65.00
Dewatering	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Electric (Underground)	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Electric Service Including Drop and Panel	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Sanitary	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Sanitary Tap	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Water	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Water Tap and Backflow	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Well	1.0	LS	\$	1.00	\$	1.00
Site Utilities- Storm Pipe	1.0	LS	\$	1.00	\$	1.00
Land Acquisition	1.0	AC	\$	8,000.00	\$	8,000.00
Site Topographic Survey	1.0	AC	\$	2,500.00	\$	2,500.00
Boundary Marking	1.0	LF	\$	2.00	\$	2.00

Vehicular Circulation

Roadway	1.0	SY	\$	35.00	\$	35.00
Roadway Stone Shoulder, 3' wide	1.0	LF	\$	16.00	\$	16.00
Concrete Curb	1.0	LF	\$	28.00	\$	28.00
Loading, Service Areas, or Heavy Duty Vehicular Pavement, Boat Ramps	1.0	SY	\$	45.00	\$	45.00
Parking Spaces- Includes Paving, Drive Isle and Related Amenities	1.0	Space	\$	5,000.00	\$	5,000.00
Vehicular Bridge	1.0	SF	\$	225.00	\$	225.00
Vehicular Gate	1.0	EA	\$	5,000.00	\$	5,000.00
Vehicular Lighting	1.0	Pole	\$	12,000.00	\$	12,000.00

Pedestrian Circulation- Trails, Walks and Plaza Areas

Walkways and Plazas, Concrete	1.0	SF	\$	10.00	\$	10.00
Walkways and Plazas, Pavers	1.0	SF	\$	18.00	\$	18.00
Paved Trail, Asphalt, Includes Base	1.0	SY	\$	40.00	\$	40.00
Aggregate Surface Trail	1.0	SY	\$	35.00	\$	35.00
Natural Surface Trail, Includes Signage	1.0	SY	\$	25.00	\$	25.00
Equestrian- Aggregate Surface Trail, Includes Signage	1.0	SY	\$	35.00	\$	35.00
Boardwalk	1.0	SF	\$	65.00	\$	65.00
Trail Bridge	1.0	SF	\$	100.00	\$	100.00
Trail Head, Including Signage	1.0	EA	\$	15,000.00	\$	15,000.00

Signage

Main Park Entry Signage	1.0	EA	\$	5,500.00	\$	5,500.00
General Trail Wayfinding and Regulatory Signage	1.0	LS	\$	1.00	\$	1.00
General Wayfinding or Traffic Signage	1.0	LS	\$	1.00	\$	1.00
Interpretive Signage	1.0	EA	\$	3,000.00	\$	3,000.00

Buildings

Operations Building- New	1.0	SF	\$	100.00	\$	100.00
Operations Building- Renovation	1.0	SF	\$	75.00	\$	75.00

Preliminary Cost Estimate

Public Building, Meeting Space, Visitor Center- New	1.0	SF	\$	300.00	\$	300.00
Public Building, Meeting Space, Visitor Center- Renovation	1.0	SF	\$	200.00	\$	200.00
Building FFE	1.0	LS	\$	1.00	\$	1.00
Restroom- Vault, 2 stall, Installed	1.0	EA	\$	55,000.00	\$	55,000.00
Restroom- Flush, 2 stall, Unisex, Unheated, Installed (Water and sanitary stubbed to site)	1.0	EA	\$	65,000.00	\$	65,000.00
Restroom- Flush, 2 stall, Unisex, Heated, Installed (Water and sanitary stubbed to site)	1.0	EA	\$	75,000.00	\$	75,000.00
Restroom- Flush, 4 stall, Unisex, Unheated, Installed (Water and sanitary stubbed to site)	1.0	EA	\$	130,000.00	\$	130,000.00
Restroom- Flush, 4 Stall, Unisex, Heated, Installed (Water and sanitary stubbed to site)	1.0	EA	\$	150,000.00	\$	150,000.00
Site Amenities						
Shelter- Pavilion 30'x70' (100+ Users), Installed, Includes Picnic Tables, Grill, Trash, Games	1.0	EA	\$	225,000.00	\$	225,000.00
Shelter- Large 30'x50' (51-100 Users), Installed, Includes Picnic Tables, Grill, Trash, Games	1.0	EA	\$	150,000.00	\$	150,000.00
Shelter- Medium 20'x35' (26-50 Users), Installed, Includes Picnic Tables, Grill, Trash, Games	1.0	EA	\$	70,000.00	\$	70,000.00
Shelter- Small 20'x25' (Up to 25 Users), Installed, Includes Picnic Tables, Grill, Trash, Games	1.0	EA	\$	50,000.00	\$	50,000.00
Nature Play Area- Large, Designed & constructed	1.0	LS	\$	1.00	\$	1.00
Nature Play Area- Small, staff constructed	1.0	EA	\$	1,500.00	\$	1,500.00
Adult Nature Play or Fitness Station	1.0	LS	\$	1.00	\$	1.00
Camp Site, Includes Picnic Table, Firewood Box, Fire Ring	1.0	EA	\$	5,000.00	\$	5,000.00
Observation Platform, Overlooks, Constructed	1.0	LS	\$	1.00	\$	1.00
Observation Tower	1.0	LS	\$	1.00	\$	1.00
Pond/ Water Access Points, Stone or Wood.	1.0	EA	\$	5,000.00	\$	5,000.00
Boat Docks, Kayaks, Floating	1.0	SF	\$	65.00	\$	65.00
Interpretive Point, Includes Signage and General Site Amenities	1.0	LS	\$	1.00	\$	1.00
Boulders, Placed for Seating, Light Duty Retaining, Fishing Access	1.0	Ton	\$	750.00	\$	750.00
Seat Walls, Mortared Stone on Footer	1.0	LF	\$	300.00	\$	300.00
Site Furnishings, Shade Structures, Pergolas	1.0	LS	\$	1.00	\$	1.00
Site Furnishings, General- Benches, Trash Cans, Installed	1.0	LS	\$	1.00	\$	1.00
Fencing, Decorative or Metal	1.0	LF	\$	65.00	\$	65.00
Fencing, Board or Split Rail	1.0	LF	\$	40.00	\$	40.00
Public Artwork	1.0	LS	\$	1.00	\$	1.00
Horticultural & Habitat						
Invasive Species Spray	1.0	AC	\$	1,000.00	\$	1,000.00
Invasive Species Grind, Fecon	1.0	AC	\$	1,750.00	\$	1,750.00
Reforestation Planting- Tree Seedlings and Native Seed Mix	1.0	AC	\$	9,000.00	\$	9,000.00
Hand Installed, Includes Tree Tubes						
35 deciduous trees (30% 2.5-3" cal; 40% 1-2" cal; 30% whips); 30 flowering trees (30% 2.5-3" cal; 40% 1-2" cal.; 30% whips); 20 shrubs (#3-5); native seed mix; Tree Tube or Deer Protection each tree						
Reforestation Planting- Hardwood Forest	1.0	AC	\$	25,000.00	\$	25,000.00
18 deciduous trees (30% 2.5-3" cal; 40% 1-2" cal; 30% whips); 12 flowering trees (30% 2.5-3" cal; 40% 1-2" cal.; 30% whips); 15 shrubs (#3-5); native seed mix; Tree Tube or deer protection each tree						
Reforestation Planting- Successional Forest	1.0	AC	\$	17,000.00	\$	17,000.00
Native Prairie/ Meadow Planting	1.0	AC	\$	5,000.00	\$	5,000.00
Plantings: Wetland, Forebay Plantings, Shoreline	1.0	SY	\$	20.00	\$	20.00
Plantings: Rain Gardens and BioSwales	1.0	SY	\$	36.00	\$	36.00
Plantings: Display and Educational Gardens	1.0	SY	\$	35.00	\$	35.00
Tree Planting, 2-1/2 to 3"	1.0	EA	\$	600.00	\$	600.00
General Horticultural Display Plantings, Foundation Plantings, Signage Plantings	1.0	SF	\$	8.00	\$	8.00
Lawn Seeding, Including Final Site Prep	1.0	SY	\$	3.00	\$	3.00