MILLTOWN DAM PARK & OPEN SPACE MASTER PLAN

East Goshen, Chester County Pennsylvania

PUBLIC MEETING #3: Draft Plan Review

Wednesday 3.22.2017, 7-8:30 PM East Goshen Township Building 1580 Paoli Pike West Chester, PA



Meeting Agenda

Committee Business / Introductions

• Presentation (Please hold questions until end)

- Review Master Plan process to Date
- Concept Review & Public Feedback
- Draft Plan Presentation
- Discussion / Feedback
- Next Steps



Project Team

Simone Collins Landscape Architecture

Peter M. Simone, FASLA, RLA Project Principle Sarah Leeper, RLA Project Manager Melisa Barley, Landscape Architect Project LA

Princeton Hydro

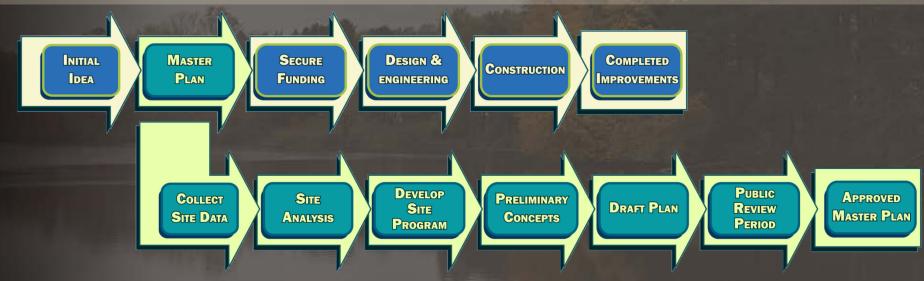
Geoffrey M. Goll P.E.

Civil Engineer – expertise in dam removal for dam safety compliance, fish migration, floodplain reconnection, and habitat restoration.

Project Schedule

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New York	Meeting	Date & Time	Meeting Subject				
	Milltown Committee Meeting #1	Nov 2, 7:00 pm	Project Introduction / Brainstorming				
	Milltown Public Meeting #1	Dec 14, 7:00 pm Dec 15, 7:00 pm	Project Introduction / Brainstorming				
	Milltown Committee Meeting #2	Jan 11, 7:00 pm	Site Concepts				
	Milltown Public Meeting #2	Jan25, 7:00 pm	Site Concepts				
	Milltown Committee Meeting #3	Feb 21, 7:00 pm	Draft Plan Review				
	Milltown Public Meeting #3	<u>Mar 22, 7:00 pm</u>	<u>Draft Plan</u> Presentation - 60 day review				
	Milltown Committee Meeting #4	May 23, 7:00 pm	Final Plan Review				
	Milltown Public Meeting #4	Jun 20, 7:00 pm	Final Plan Presentation				
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Master Plan Process



Transparent Public Process:

- 4 public meetings
- 4 committee meetings
- 3 Web surveys

"All voices are heard and all ideas are honored"

Project Background

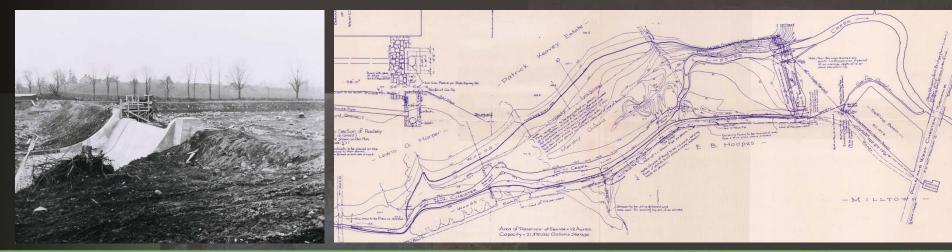
- The Milltown Reservoir is currently classified as a passive recreation area.
- The Committee has been asked to work with the consulting team to develop a park master plan and provide a park master plan recommendation to the Board of Supervisors.
- Board of Supervisors will make the final decision on the approval of the park master plan.
- The Milltown Dam site has tremendous opportunities.



Site History

- 1920 Dam is constructed.
- 1965 Waterview Farms Subdivision constructed
- 1981-1986 Dam classified as unsafe and was repaired.
- 2011 Dam classified as unsafe under new DEP standards
- Various options for dam considered included:
 - Improving the spillway;
 - A partial breach of the dam; and
 - A full breach of the dam.

 2016 On June 28th the Board of Supervisors voted to partially breach the dam.

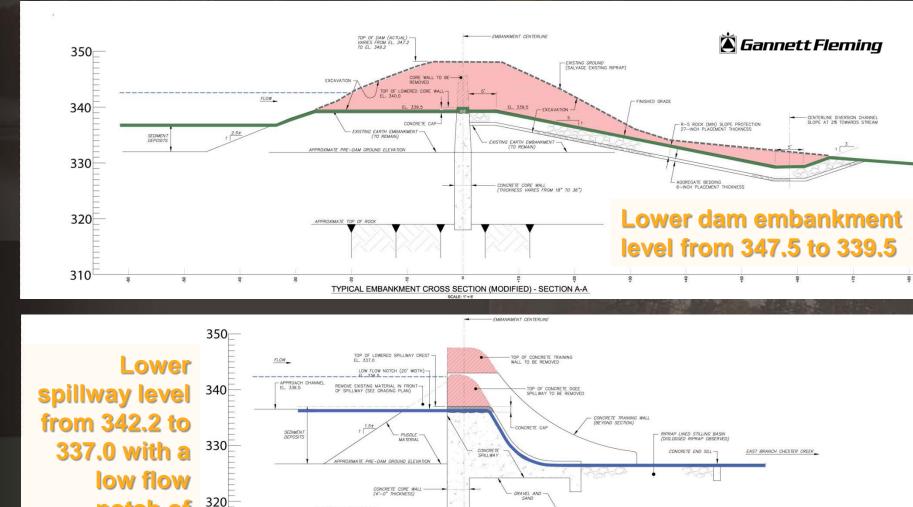


Partial Dam Breach Concept

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336.5

310



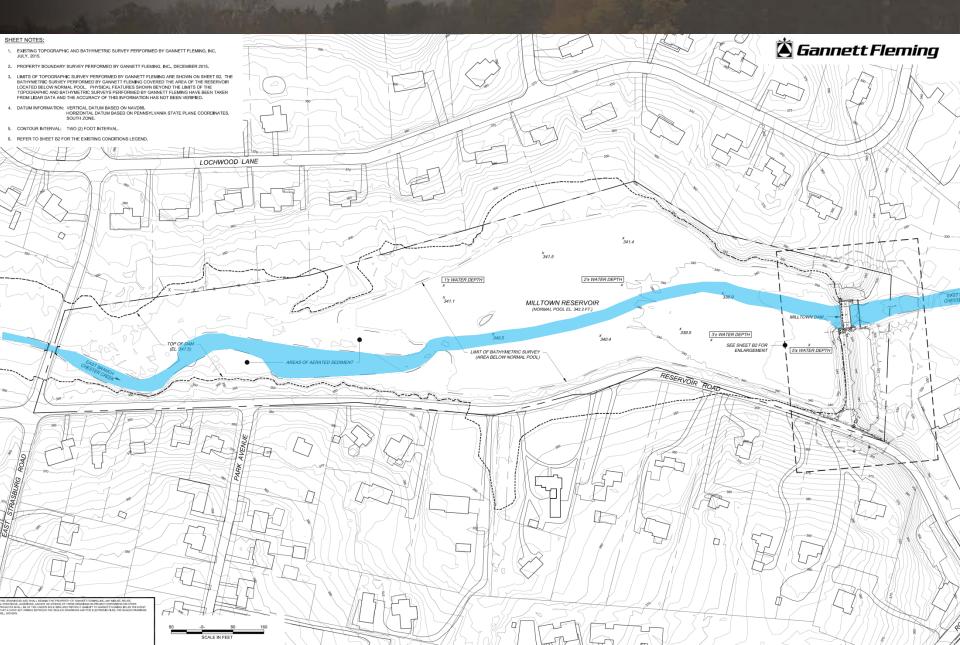
TYPICAL SPILLWAY CROSS SECTION (MODIFIED) - SECTION B-B

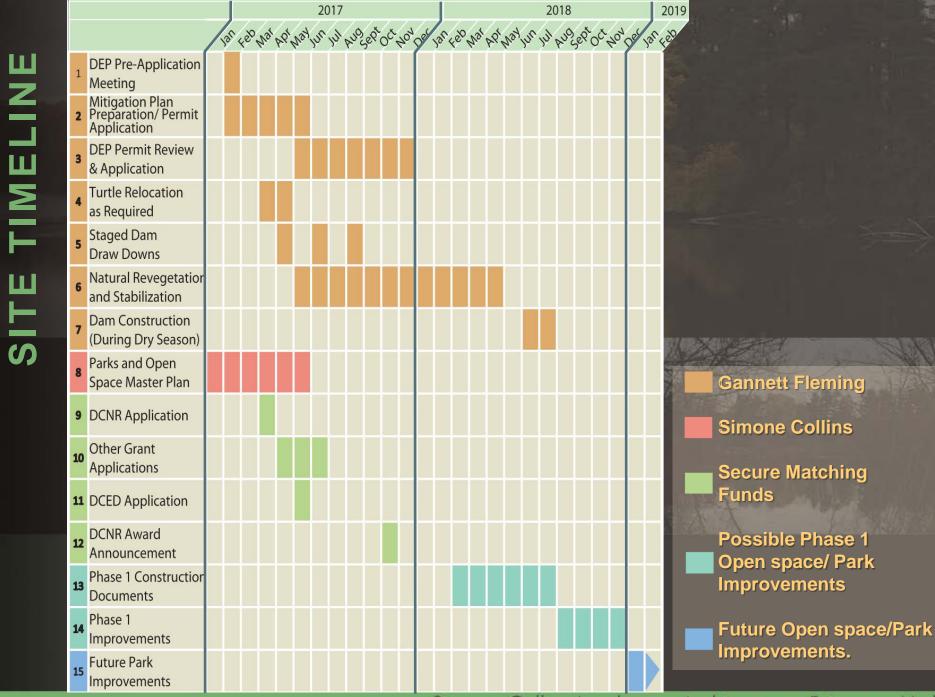
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Partial Dam Breach Concept - Before



Partial Dam Breach Concept - After

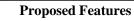




Open Space Plan & Central Chester Trail Plan



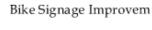
- Existing Trails
 - PA Bike Route L
 - Existing Trailhead
- P Existing Trail Parking
 - Growth Centers
- 📃 Intermodal Stop
 - East Goshen Open Space HOA / Private Recreation Schools



- Bike Lane
- Shared Roadway
- Multi-Use Trails
 - Restricted-Use Trails
 - Bicycle Boulevard
 Signed Bike Route

Priority Corridors

- Bike Rack
- P Trail Parking
 - 11an Farking
 - Traffic Calming Table
- 🚺 в

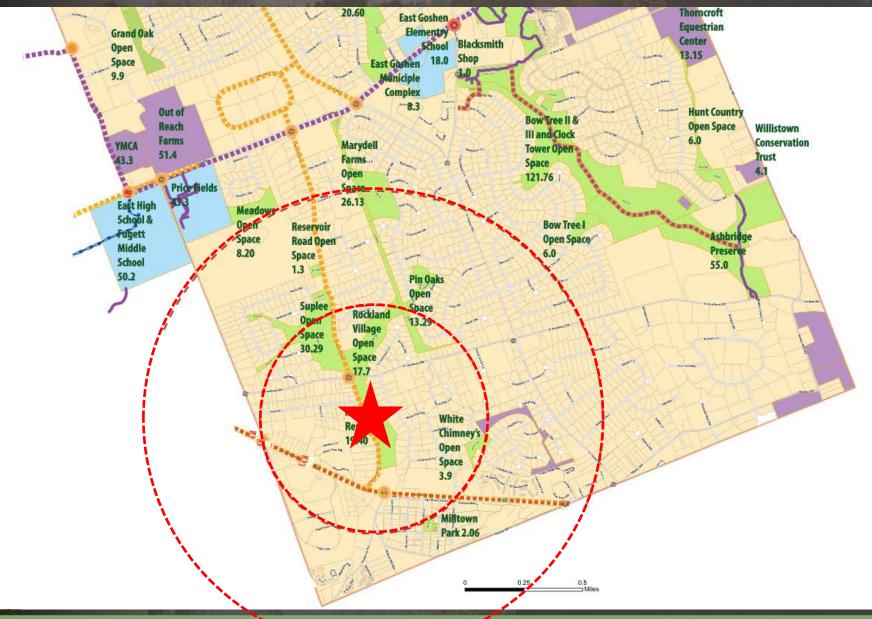




Signalized Crossing



Open Space Plan & Central Chester Trail Plan



Legend



Milltown Dam Site

Home Owner Association Lands
East Goshen Township
Open Space Lands
Roads

Reservoir RD

Paoli PK

Parcel Lines

Streams

Milltown Dam Site

Line RD

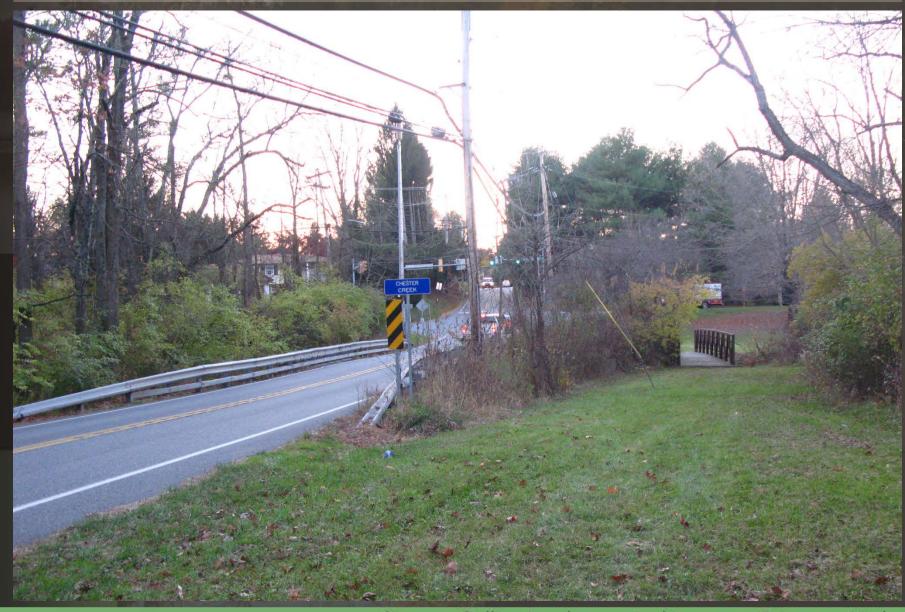
West Chester PK

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Views from Strasburg Road



Views from Strasburg Road

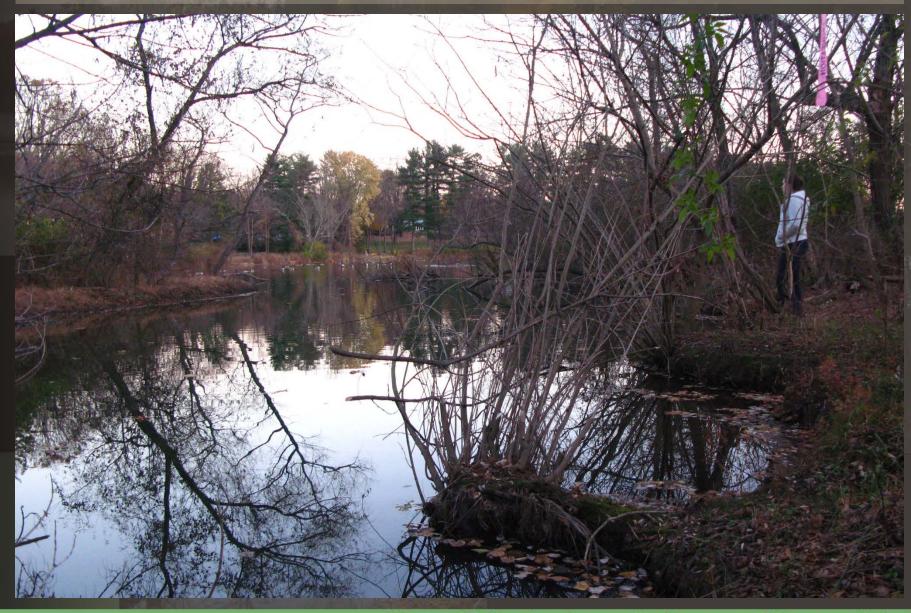


Simone Collins Landscape Architecture • Princeton Hydro

Views from Strasburg Road



Views from Creek Edge



Simone Collins Landscape Architecture • Princeton Hydro

Views from Reservoir Road



Simone Collins Landscape Architecture • Princeton Hydro

Views from Dam Embankment



Views from Dam Embankment



Simone Collins Landscape Architecture • Princeton Hydro

Views from Lochwood Lane



Views from below Dam





Goals and Priorities for the Project: Initially broad, then specific: "Develop a Park Master Plan" or "Bring People into the Park"

Facts: Existing land use, site conditions, outstanding natural resources, adjacent properties, existing trails, nearby open space sites, partners.



CONCEPTS

Ideas for Attaining Project Goals: Can be basic needs "Provide Restrooms" or larger ideas "Link to key Nearby Sites", or "Provide Memorable Play Experiences" "Create Destinations within the Park"

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Goals Were expanded, revise & add new goals throughout the public participation process.

- Engage in an open and transparent exchange of ideas where all ideas are considered and where everyone's voice can be heard throughout the design process.
- Foster ecological sustainability through plant and animal diversity and by employing best practices in landscape and park design.
- Protect and preserve the privacy of adjacent and nearby residences through proper setbacks, screening and other techniques.
- Create landscapes that are low maintenance and that will create new cultural landscape values in each surrounding neighborhood.
- **Develop** realistic completion time frames for project benchmarks
- <u>Maximize open water views.</u>
- Create a world class passive recreation amenity.

Public Brainstorming

GOALS:

- Open and transparent design process
- Protect and Preserve
 Privacy
- Foster ecological sustainability
- Create low maintenance landscape

FACTS:

- Property
- Privacy
- Turtles
- Unobstructed peaceful large water view
- Insect Issues with wetland?

What Are We Losing?

- Wildlife
- Bald eagle
- Long views
- Fishing
- Hockey
- Ice skating

• Open water

• Joy CONCEPTS:

- Scenic views from the road
- Water access
- Ice skating
- Fishing
- Buffer planting (Lochwood Lane)
- Open lawn
- World class facility
- Pond(s)
- Options for mowing
- Willow planting
- review DVRPC plan
- Wetland fore-bay
- Pond maintenance access
- Fencing
- 2 acre wetlands
- *Maximize water*
- Walking paths
- Natural stream banks

- Fish habitat
- Homeless
- Route 3 to Strasburg Road bike way
- Trash and litter concern
- Nuisance in park concern
- No trails
- No fencing
- Cross walks
- Mow near creek
- Please don't litter sign
 - Bike trails
- Sidewalk from Strasburg Road to Lochwood Lane
- Use spoils to form trail bench
- Review Comprehensive plan requirements
- Money/ budget
- Keep trail to west
- Walking bridge on south at Strasburg Road
- Use existing bridge

Public Survey #1

55 Respondents

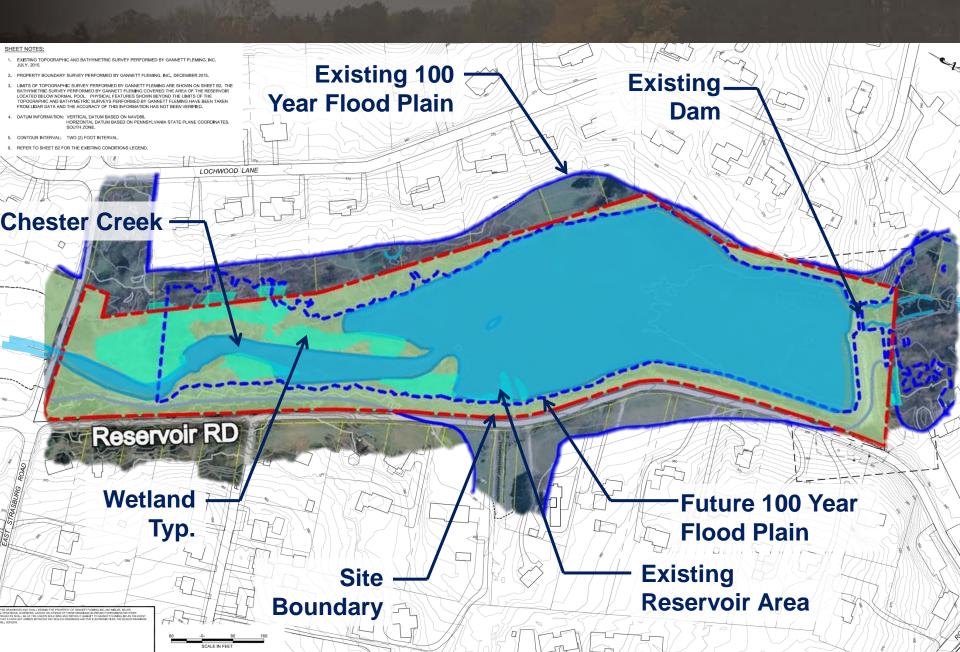
Question 9 – What do you value the most in the existing site: Unobstructed scenic water views; and Habitat for plants and animals ranked most important

<u>Question 10 – What do you want to see</u>

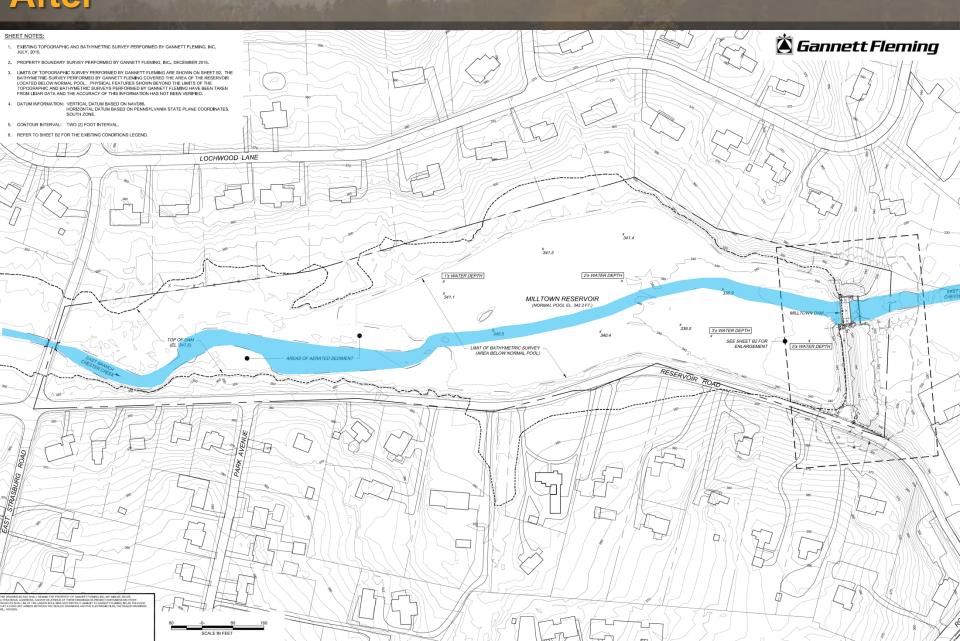
#1 - Water Features such as pond(s) for fishing / scenic value High Ranking:

- More trees in area
- Small parking area to access trails
- Walking trail(s)
- Bird houses and bat boxes
- Walking & Biking Trails

Existing Conditions Plan



Partial Dam Breach Concept – Stream Condition After



Concept Bubble Plan

	Existing Elevation	New Elevation	Change in Elevation
Dam Spillway	342.2	336.5	5.7 ft
Dam Embankment	347.5	340	7.5 ft
Stream at Dam	342.2	336.5	5.7 ft
Stream at Strasburg Road	342.2	342.2	0 ft
Existing Wetlands	342.2 to 344	342.2 to 344	0 ft
Elevation	New Po New Po 333 tream levation 40.2± Messor ARANTED RED ATT Stream tion Elevation	nd 5.5 5.1	ntrol ucture version spilles s

Concept Elements:

Various design elements are incorporated into each concept. The following elements will be reviewed to understand the unique quality and benefits of each element and identify the objectives for including them in the concept plans.

- Pond
- Streams
- Riparian Buffer
- Low Mow / No Mow Lawn
- Meadow
- Wetlands



CONCEPTS Plans

Concept 1 • Small Habitat Islands

• 3 Acre Pond

Concept 2

Large Island
Reforestation
2 Acre Pond

Concept 3

Multiple Ponds
1.5 Acre Ponds



CONCEPTS Plans

Concept 1: Was the most popular plan from the survey and Public Meeting Vote



Public Survey #2

79 Respondents

Question 5 - Trails:

- Overall support for trails
- Majority of respondents focused on site trails and local neighborhood access to site.

Question 6 – Current Walking / Biking trends:

- Very little use.
- Reservoir Road used the most.

Question 7 – Water Features:

- Generally positive response to all features.
- Fishing access ranking the highest

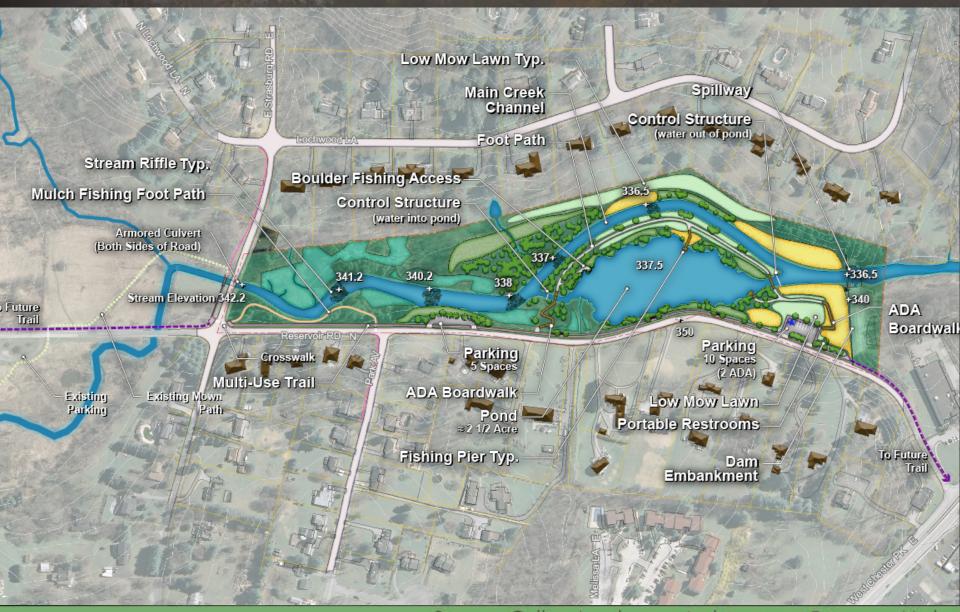
Question 8 – Types of Restoration Plantings:

• Generally positive response for all types.

Question 10 – Tradition Park Amenities:

• Generally positive response for all items.

Draft Master Plan



Draft Master Plan



Main Parking Area



Improvements:

- Parking Area
 - 8 reg. spaces
 - 2 ADA spaces
 - Driveway sight lines +250'
- Park Kiosk
 - Rules
 - Trail Map
- Fenced in Portable Restroom Area
- ADA access trail into site
- ADA fishing Pier
- Low Grow Lawn Area
- Low Meadow along Dam

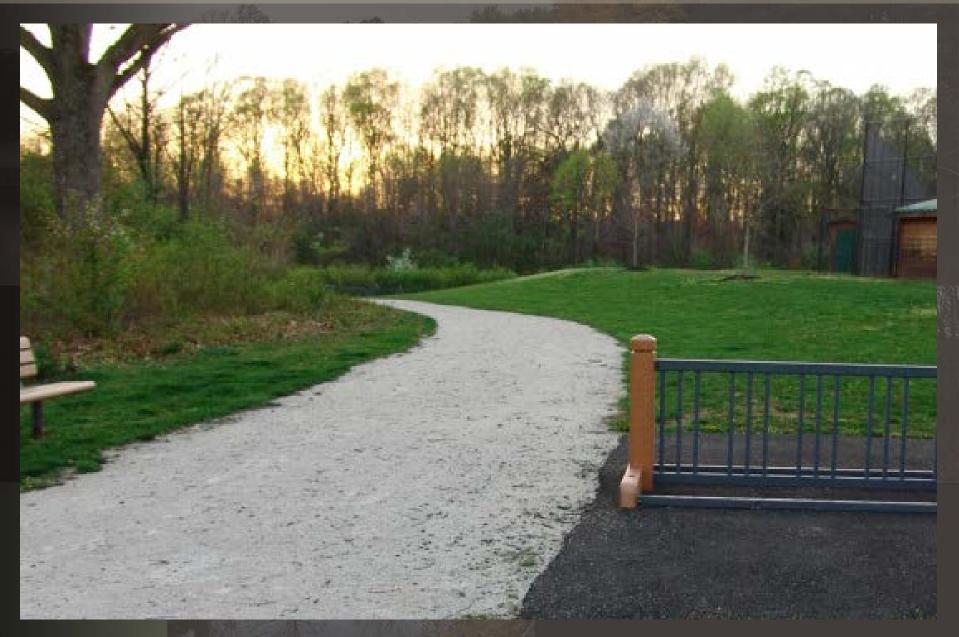
Example Low Meadow



Example Low Mow Lawn



Example ADA Trail Surfaces



Example ADA Trail Surfaces



ADA Fishing Pier



Pond Area



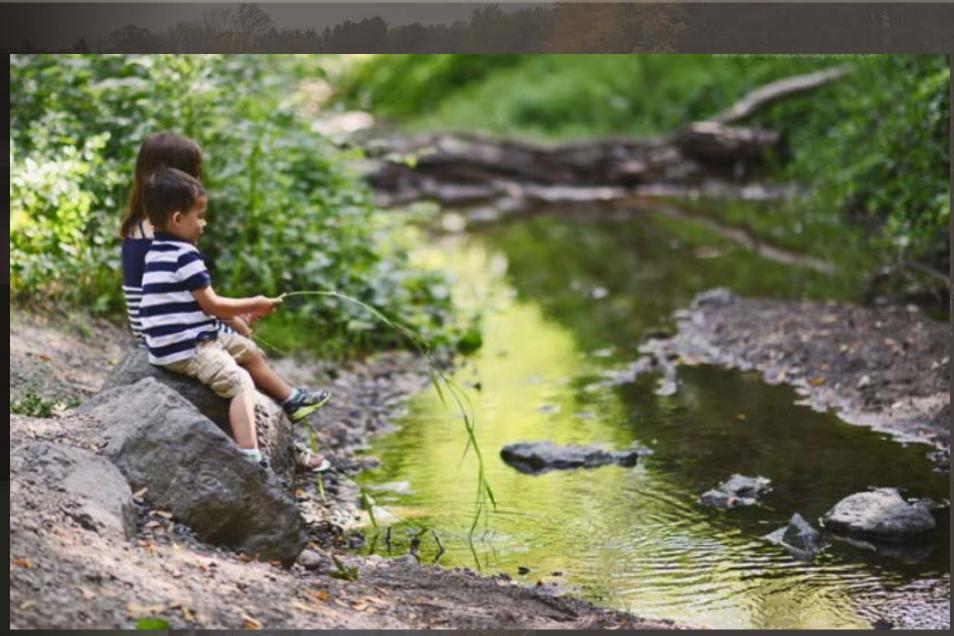
Improvements:

- 2 ½ Acre Pond
 Pond forebay
- ½ Mile loop trail system
- Fishing pier
- Water edge
 access
- Riparian planting
- Low grow lawn along neighboring properties

Example Multi-Use Trail & Seating Areas



Water Edge Access



Example Pond Control Structure – Outfall Weir



Simone Collins Landscape Architecture - Princeton Hydro

Example Riparian Buffer



Stream Area



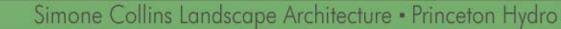
Improvements:

- Parking Area
 - One-way
 - 5 parallel spaces
- Fishing stream edge trail
- Stream Riffles
- Armor Culvert at Road

Example Stream Riffle



Earthen / Wood Chip Fishing Trail



Future Access North & East



Improvements:

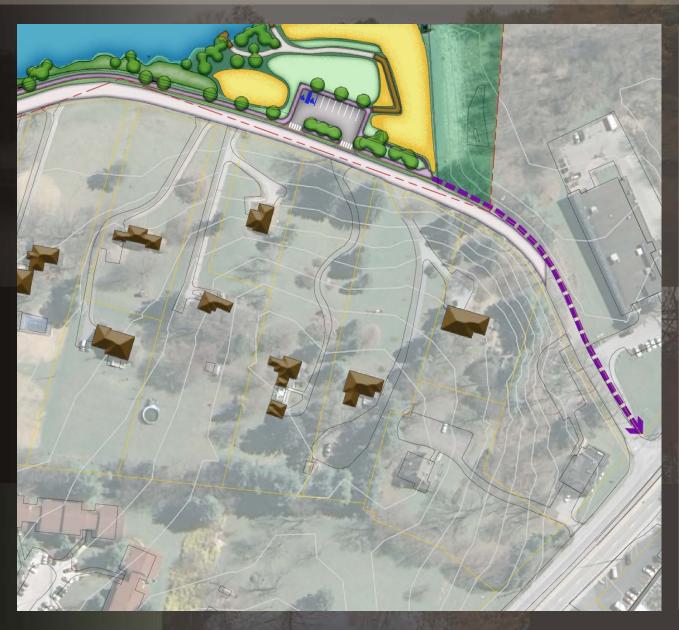
- Crosswalk Improvement
- Trail Improvement to existing Bridge
 Future Sidewalk improvement to Lochwood Lane
 Euture Extension
- Future Extension of Multi Use Trail to Suplee Open Space Area

Future Access West



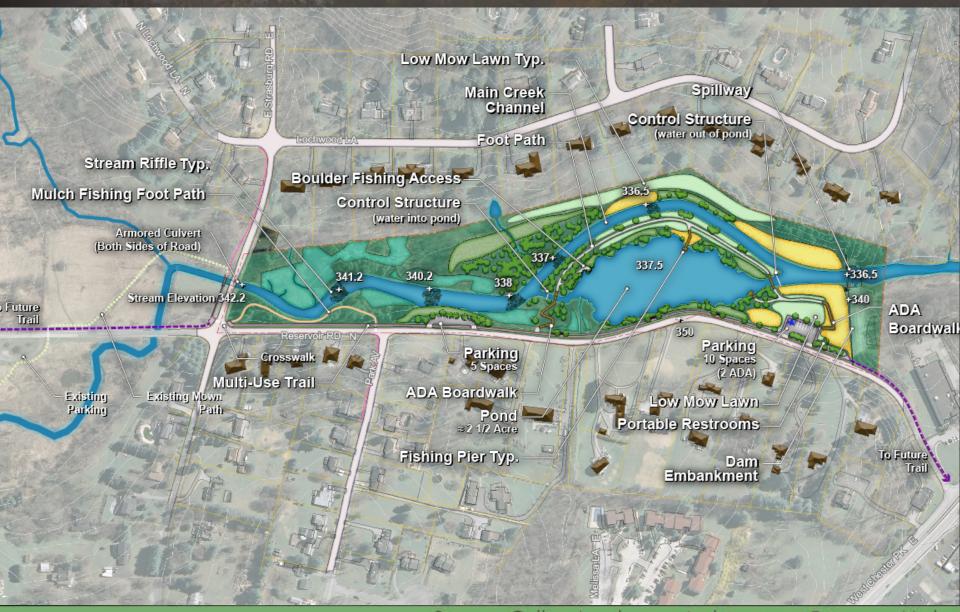
Improvements: • Future Sidewalk improvement along Park Ave

Future Access South



Improvements: • Future Extension of Multi Use Trail to West Chester Pike

Draft Master Plan



ADA Access

Lochwood LA

Reservoir RD N

ADA Boardwalk

ADA Accessible Boulder Fishing Access ADA Access to Existing Bridge

ADA Accessible Foot Path

Parking (2 ADA Spaces) 1 ADA Accessible Portable Restroom

ADA Accessible Fishing Piers

ADA Accessible Multi-Use Trail

ADA Boardwalk

Project Phasing



Site Preparation:

Dam work;

Phase

1

- · Stream riffle construction;
- Armor culvert at E Strasburg Rd;
- Site grading to create the pond, island, embankment for parking; and
- Construction of the pond.

Site Improvements:

- · Construct main parking area; and
- Develop 2 boardwalks, island foot path, and a portion of the multi-use trail.

Project Phasing



Phase 2 Planting Improvements:

- Meadow establishment;
- · Shrub plantings; and
- Forest restoration.

Project Phasing



Site Improvements:

Phase

3

- · Construct secondary parking area;
- Extend multi-use trail to E Strasburg Rd;
- Crosswalk improvements at Reservoir Rd and E Strasburg Rd intersection;
- · Construct 5 ft wide trail to existing pedestrian bridge; and
- Develop fishing access path along Chester Creek.

Project Cost

Estimated Costs of Development			
Phase 1 Project Costs	\$	963,771	
Phase 2 Project Costs	\$	350,546	
Phase 3 Project Costs	\$	76,964	
Total Costs of Development	\$	1,391,280	

Phase 1 Estimated Costs of Development		
Work Item	Tota	I Cost
Demolition and Site Preparation	\$	496,649
Reservoir Road Mixed-Use Trail (South)	\$	49,890
Reservoir Road Parking Area, 10 Spaces (South)	\$	26,170
ADA Asphalt Walkway	\$	2,461
Stone Dust Foot Paths, 4"Depth	\$	12,863
Structures- Bridges & Boardwalks	\$	131,200
Phase 1	\$	719,232
General Project Cost (Mobilization, E&S, Construction Surveying)	\$	50,346
Construction Contingency (15%)	\$	107,885
Design and Engineering (12%)	\$	86,308
Phase 1 Project Costs	\$	963,771



Project Cost

Phase 2 Estimated Costs of Development			
Work Item	Total Cost		
Structures- Fishing Piers	\$	78,400	
Planting	\$	183,201	
Phase 2	\$	261,601	
General Project Cost (Mobilization, E&S, Construction Surveying)	\$	18,312	
Construction Contingency (15%)	\$	39,240	
Design and Engineering (12%)	\$	31,392	
Phase 2 Project Costs	\$	350,546	

Phase 3 Estimated Costs of Development		
Work Item	Тс	otal Cost
Reservoir Road Parking Area, 5 Spaces (North)	\$	17,472
Reservoir Road Mixed-Use Trail (North)	\$	38,436
Wood Chip Foot Paths, 5' Wide	\$	1,528
Phase 3	\$	57,436
General Project Cost (Mobilization, E&S, Construction Surveying)	\$	4,020
Construction Contingency (15%)	\$	8,615
Design and Engineering (12%)	\$	6,892
Phase 3 Project Costs	\$	76,964

60 day Review Period - Please submit written comment to: Rick Smith, Manager E-Mail: rsmith@eastgoshen.org

Township Project Website: https://eastgoshen.org/about-us/milltown-dam

Tonight's Plans and Presentation:

https://eastgoshen.org/boards/milltown-dam-committee

Web Survey https://www.surveymonkey.com/r/MTDraftPlan



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Contact Info: Please Copy All Parties

Sarah Leeper, Project Manger Simone Collins Landscape Architecture (610) 239-7601 E-Mail: sleeper@simonecollins.com

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Rick Smith, Manager East Goshen Township (610) 692-7171 E-Mail: rsmith@eastgoshen.org



Draft Master Plan

