



# **McNEELY LAKE PARK ROADWAY PROJECT**

## **PUBLIC MEETING #2**

**July 17, 2012**





# Welcome/Introductions





# Meeting Agenda

**6:30 – 7:00 pm                      Open House (Stations)**

- Preliminary Alignments**
- Exist. Resources**
- Site Analysis**

**7:00 – 7:30 pm                      Presentation**

**7:30 – 8:00 pm                      Discussion**





# Purpose and Need

To create a well-designed roadway and shared-use path serving all park users that enhances the park experience, provides connections between park facilities, and improves park access from surrounding neighborhoods



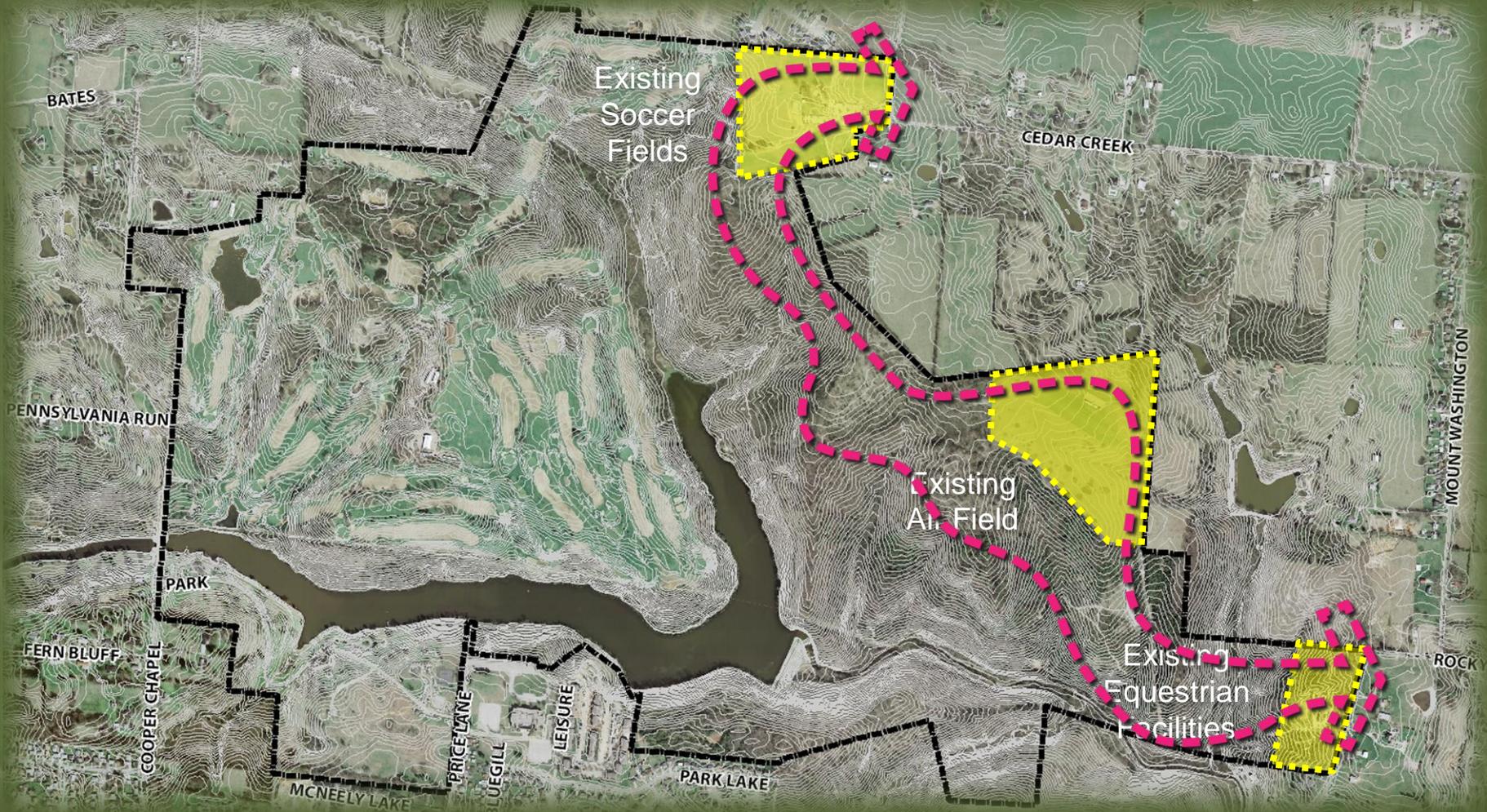


# Design Process

<b>Inventory / assessment</b>	<b>1/2012 - 5/2012</b>
<b>Public Meeting #1</b>	<b>5/2012</b>
<b>Stakeholder Interviews</b>	<b>6/2012</b>
<b>Alternatives</b>	<b>6/2012 – 7/2012</b>
<b>Public Meeting #2</b>	<b>7/2012</b>
<b>Phase 1 Completion</b>	<b>8/2012</b>



# Existing Park Boundaries





# Key Questions

- What characteristics make up a well-designed roadway?
- How do we ensure the proposed road can serve all park users?
- How do we create an enjoyable park road experience?
- How do we minimize negative impacts on existing resources?
- How do we connect to existing park facilities along the roadway?
- How do we integrate a shared-use path with the roadway?
- How do we integrate a new road with the existing trails?
- How do we get from one corner of the park to the other?





# Stakeholder Interviews

- Equestrian Group
- Flying Field
- Soccer Groups
- Disc Golf
- Archery Users





## **Equestrian Group**

- **Wider access road to allow 2-way traffic**
- **Signage needed around crossings**
- **Minimize intersections with multi-use trail, when crossing horses need good sight distance**
- **Openings should be wide, but features should keep ATVs out**
- **Need watering locations**





## **Equestrian Group cont.**

- **Mounting blocks are needed (master plan)**
- **Facility maintenance is an issue**
- **Keep road / multi-use closer to edge, leaving existing horse trails in tact**
- **Keep an eye on ability to ride after a rain, slopes/coverage**





## **Flying Field Input**

- **112 club members 112, would like to see growth**
- **Alternate access would be positive**
- **Wider access road to allow 2-way traffic**
- **Requesting to keep gate access**
- **Normally 4 people flying at a time**
- **Would like buffer to remain around field**





## Soccer Field Users

- Car overflow area needed
- Drinking fountains needed
- Field lighting / solar lighting in parking lots
- Security lights
- Add a gate at the spur road
- Post event vehicle flow





# Archery User Group

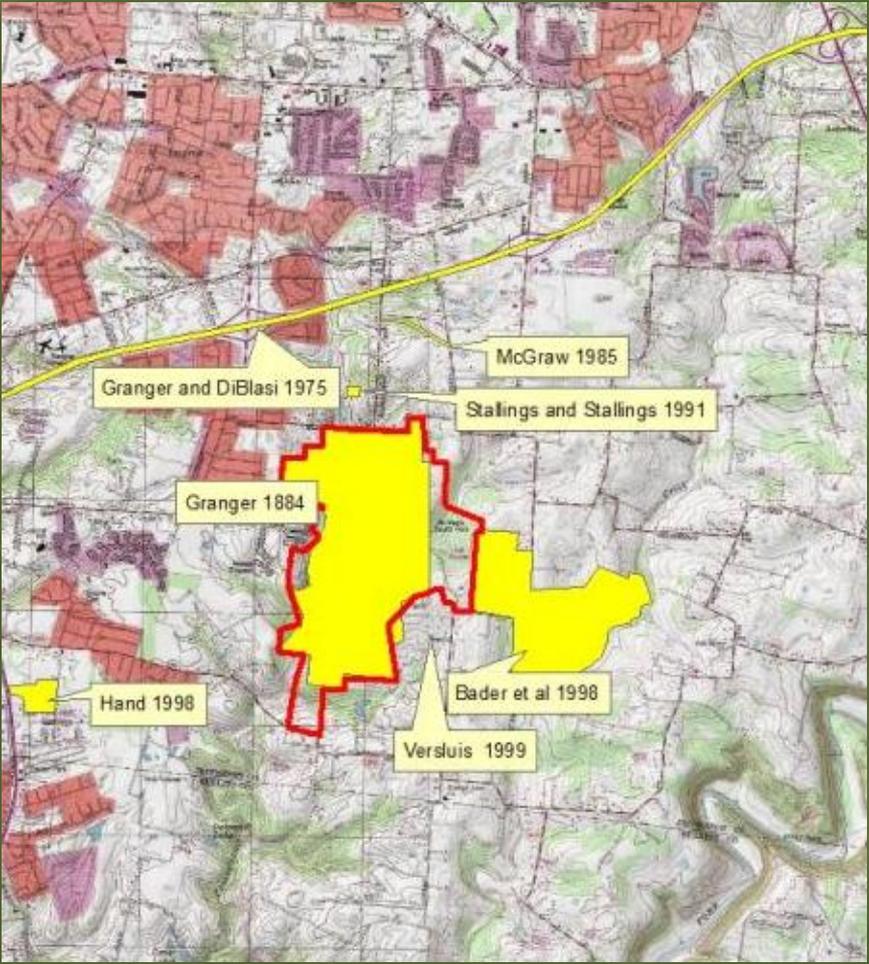
- Looking at concepts now
- Need fairly flat grade
- Would like bus accommodations





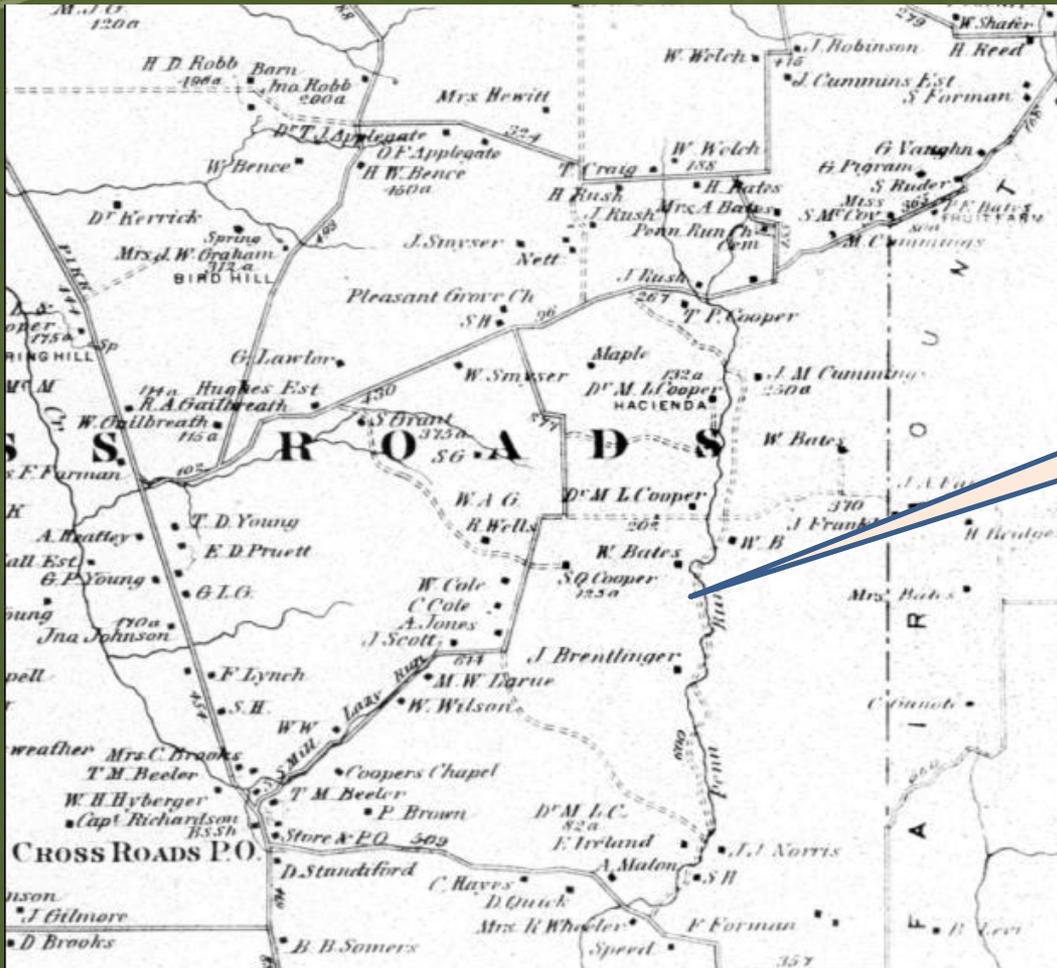
# Cultural / Historic Updates

A records check with the Office of State Archaeology revealed areas nearby the project which have been surveyed for archaeological sites (in yellow).





# Cultural / Historic Updates cont.



J. Brentlinger Residence

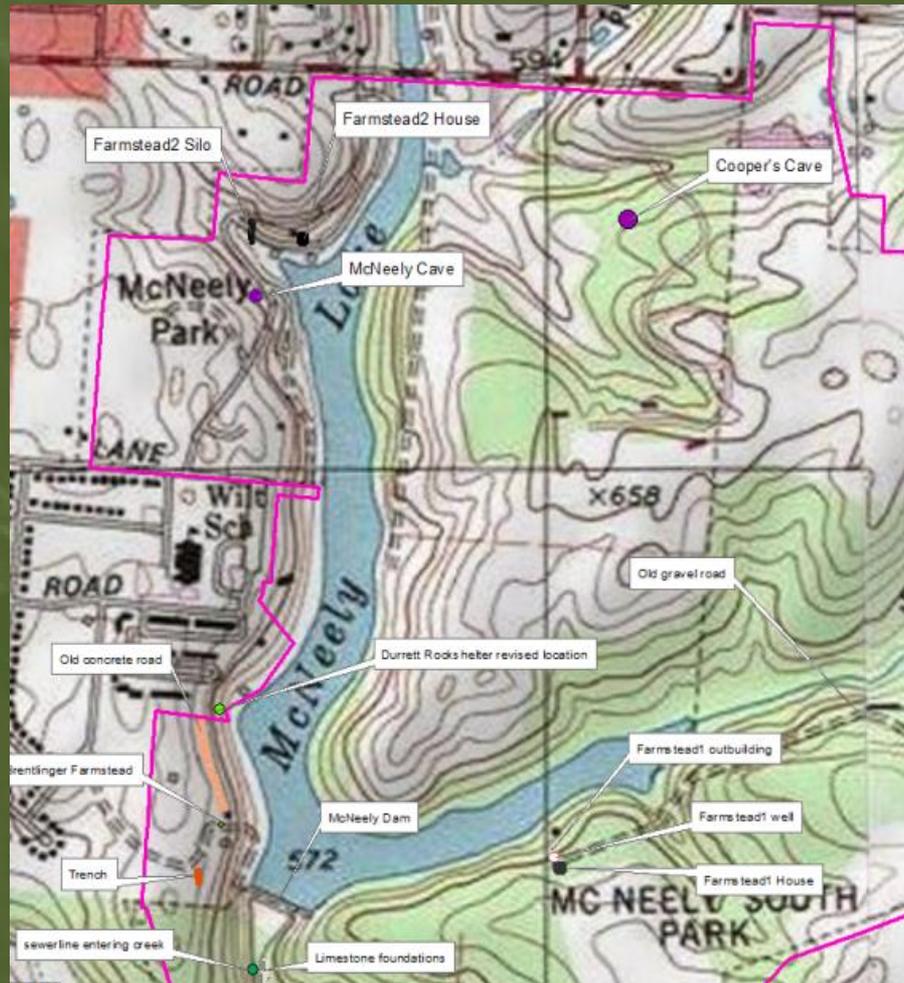
1879 Beers & Lanagan atlas.



# Cultural / Historic Updates cont.

## Site Walk-Over Results

- Three caves
- Abandoned paved and gravel roadways
- Limestone foundations
- Brentlinger Residence
- Several other farmsteads
- Silo
- Site of former schoolhouse





# Cultural / Historic Updates cont.

Abandoned road leading to former location of J.J. Norris homestead





# Cultural / Historic Updates cont.

## Old Liberty Number One School





# Cultural / Historic Updates cont.



Remains of Old Liberty Schoolhouse





# **Ecological Considerations**

## **GOAL**

**Identify significant natural habitats, features, and plant and animal species that may potentially be affected by the proposed project.**

## **RESEARCH**

- Review existing studies/data bases, natural resource mapping, soil surveys, and aerial photographs
- Coordination with regulatory/resource agencies, including:
  - U.S. Fish and Wildlife Service
  - Kentucky Department of Fish and Wildlife Resources
  - Kentucky State Nature Preserves Commission
  - Louisville/Jefferson County Metro Parks
  - Kentucky Department of Forestry
  - Kentucky Division of Water
  - Natural Resource Conservation Service





# Ecological Considerations cont.

## FIELD ASSESSMENT

- Map natural habitats – characterize major community types
- Identify sensitive features – caves, mature forest, glades, etc..
- Survey for specific threatened/endangered species and/or their habitat
- Delineate and characterize jurisdictional waters/wetlands





# Ecological Considerations cont.





# Ecological Considerations cont.





# **Ecological Considerations cont.**

- **Major Habitats**

- Open field
- Forest
- Aquatic (streams and lakes)

- **Significant/Sensitive Features**

- Caves and sinkholes
- Stream corridors
- Mature forest
- Glades (endangered plant habitat)

- **Threatened/Endangered Species**

- Indiana bat – known maternity habitat and summer roosting habitat in mature forest
- Gray bat – potential summer foraging habitat in forested riparian corridors
- Glade cress – identified populations in glade habitat
- Running buffalo clover – potential habitat in clearings within mature forest





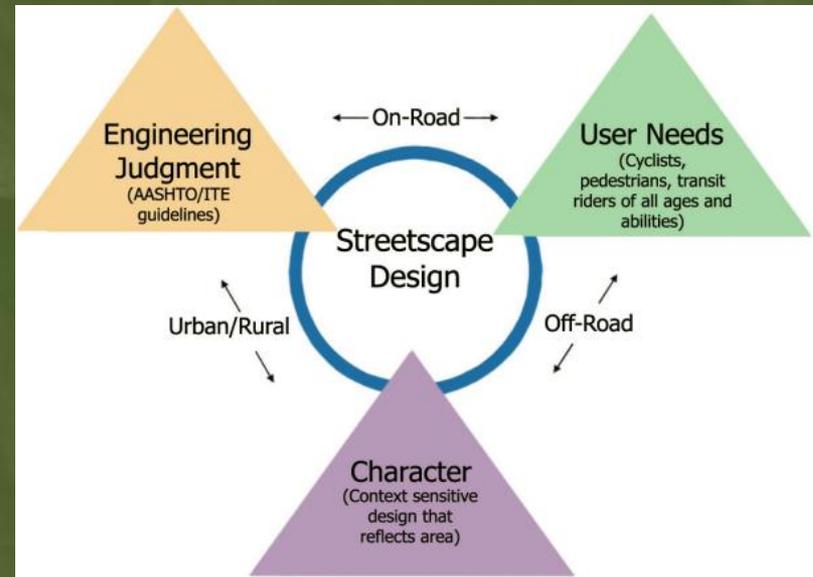
# Preliminary Concepts





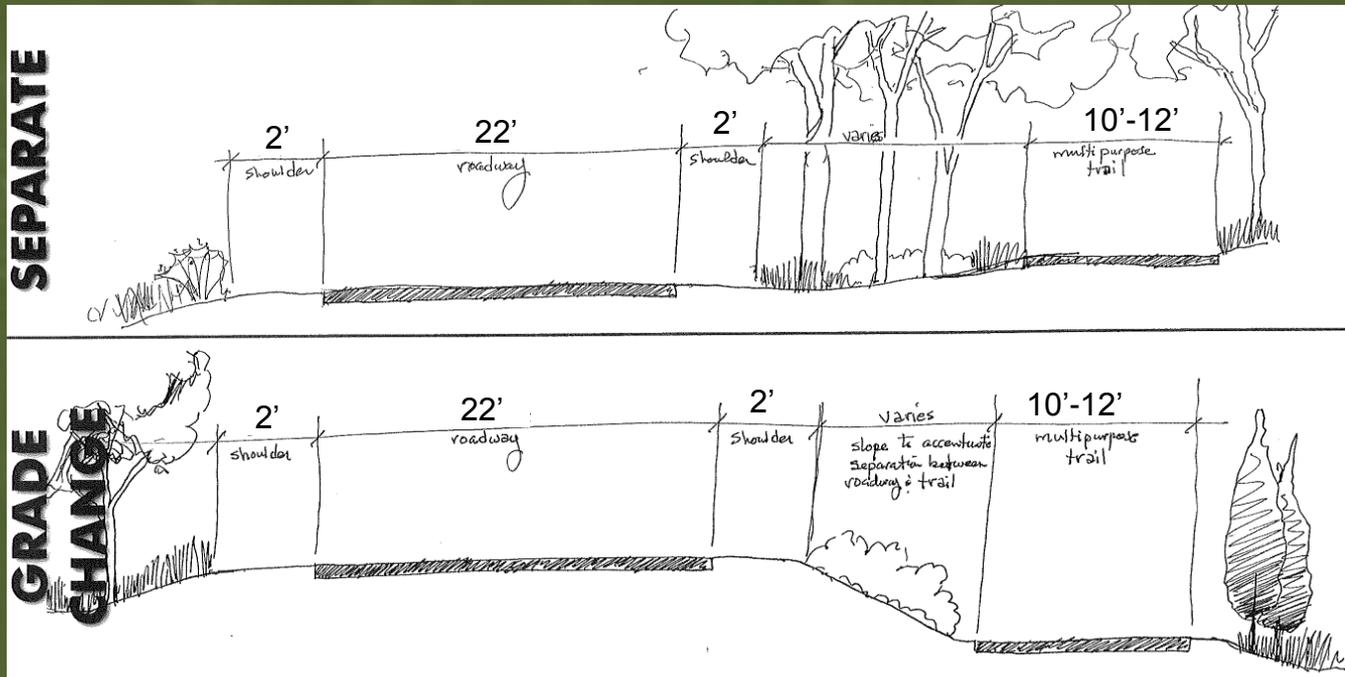
# Overall Roadway Design

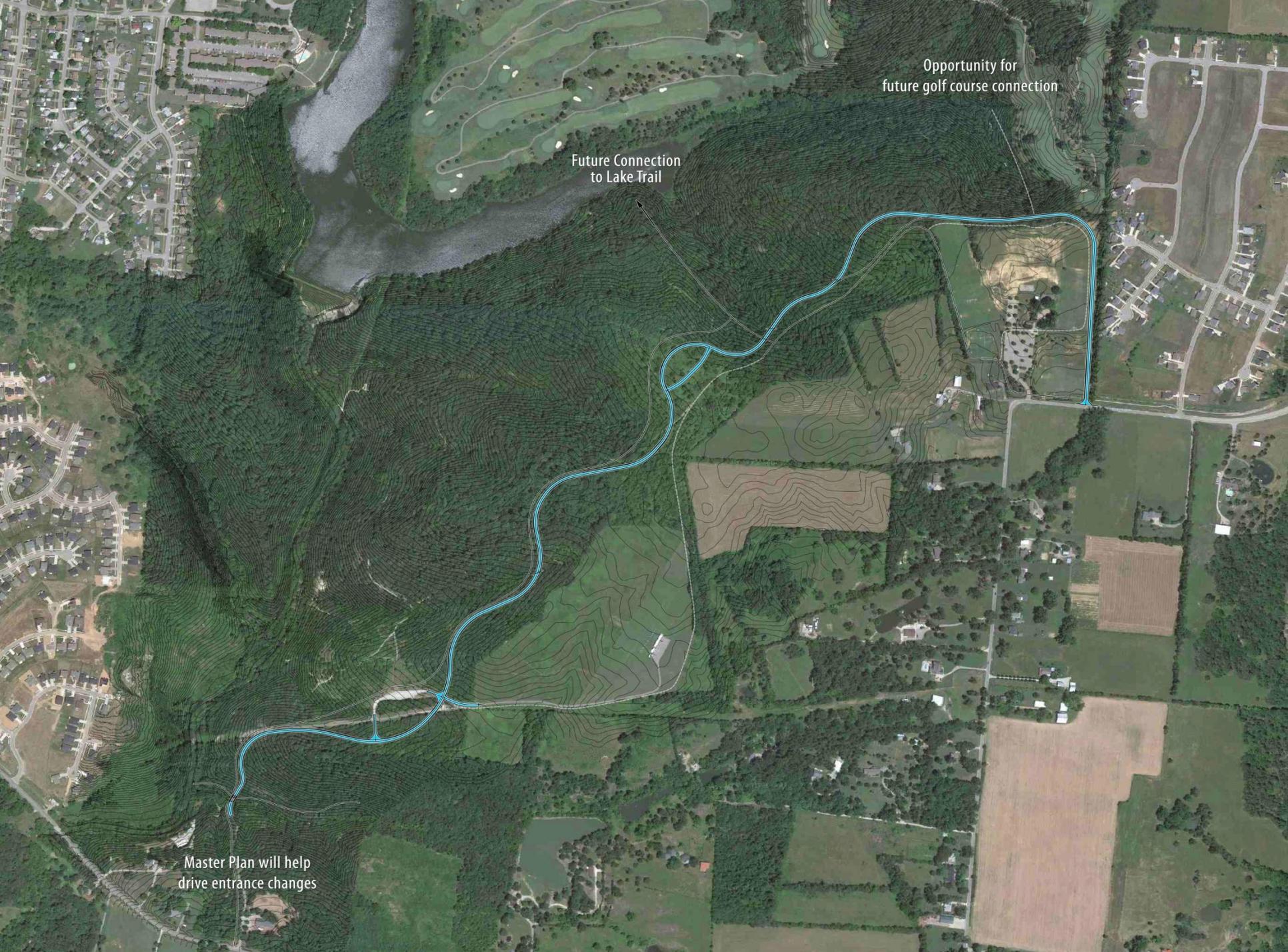
- Grade
- Mitigating Karst topographic features
- Design criteria
  - Speed
  - Typical Section
- Drainage
- User Experience



# Design Criteria

- Speed – 25 mph design
- Typical Sections: 10' lanes, 1' paved shoulder, 2' graded shoulder,





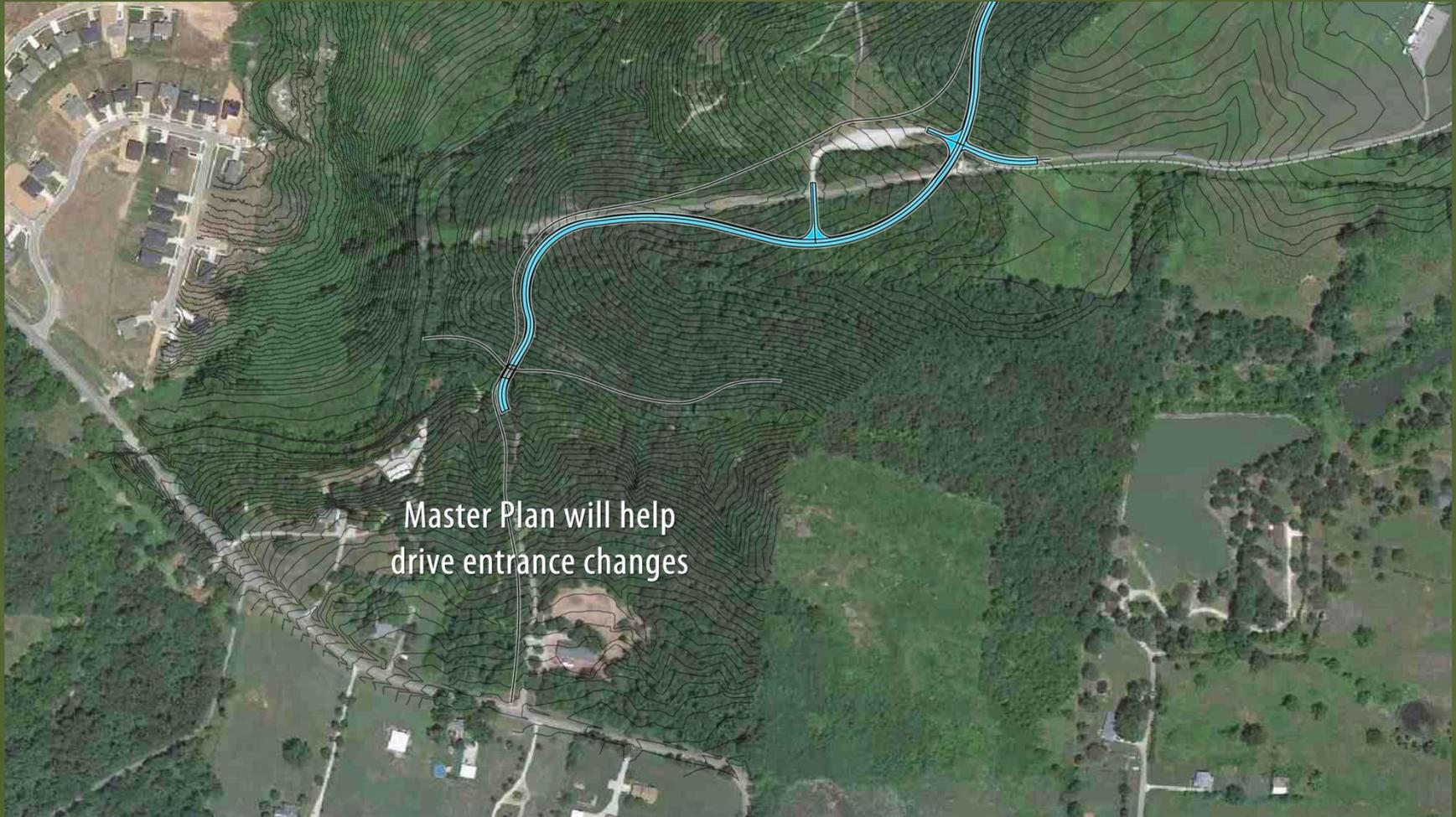
Opportunity for future golf course connection

Future Connection to Lake Trail

Master Plan will help drive entrance changes



# Conceptual Alignment



Master Plan will help  
drive entrance changes

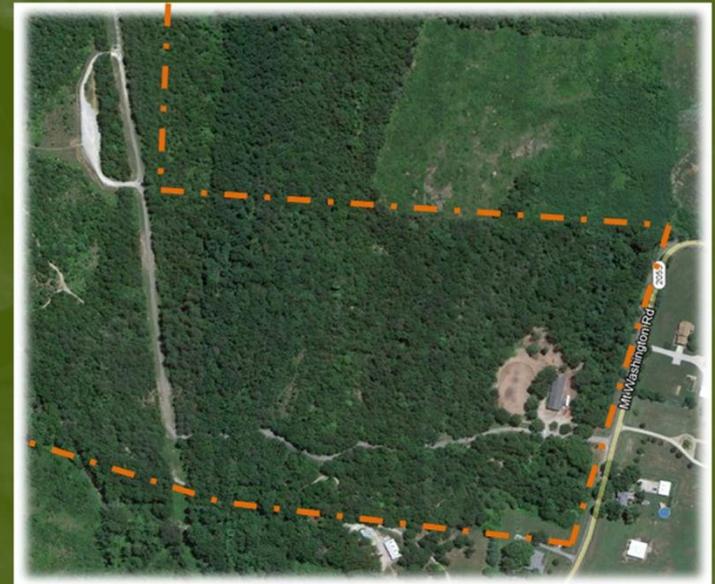




# McNEELY LAKE PARK ROADWAY & TRAIL

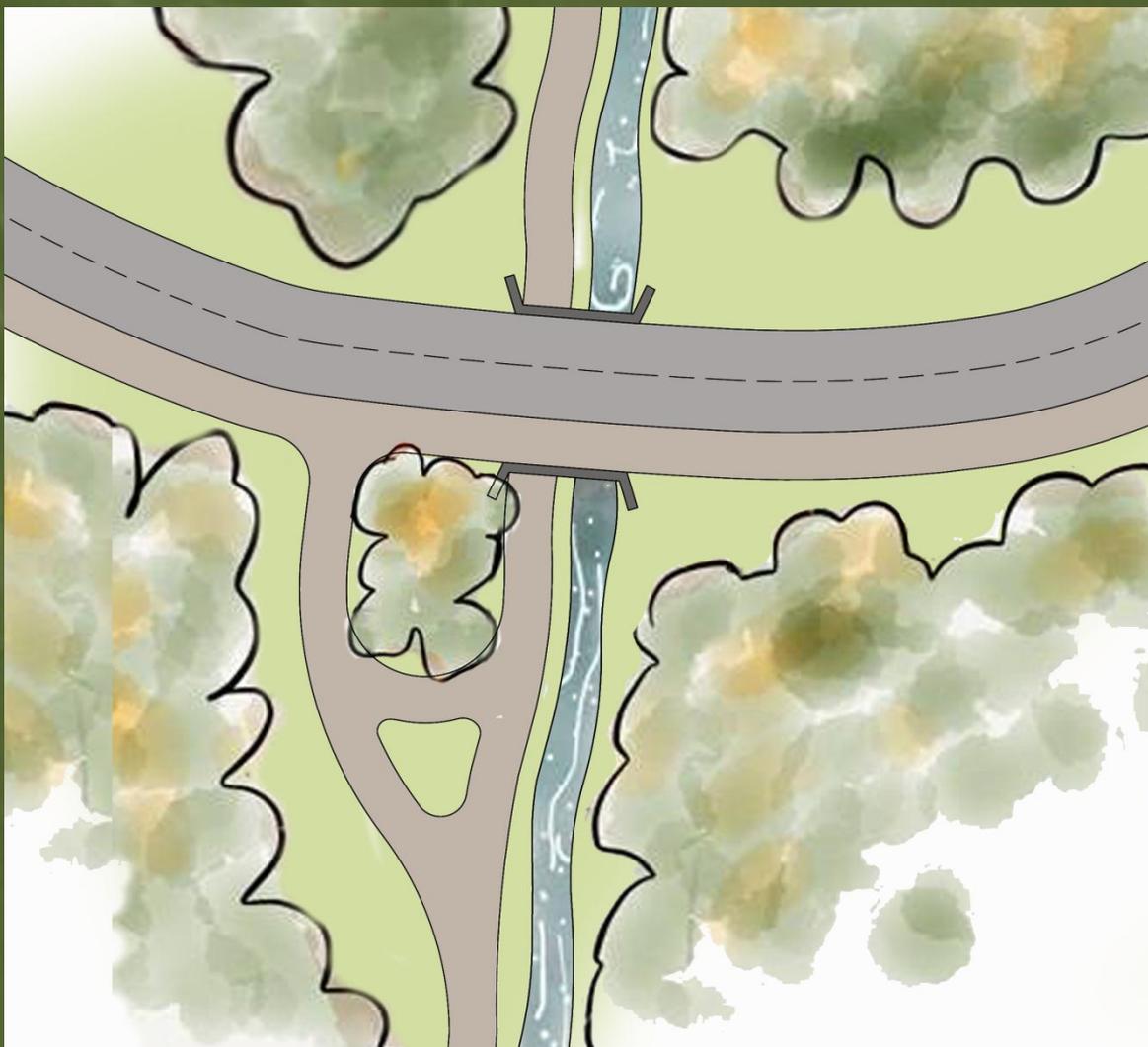


## Potential Experiences





# McNEELY LAKE PARK ROADWAY & TRAIL





# Conceptual Alignment cont.





# McNEELY LAKE PARK ROADWAY & TRAIL



## Potential Experiences





# Conceptual Alignment cont.



Future Connection  
to Lake Trail

Opportunity for  
future golf course connection





# McNEELY LAKE PARK ROADWAY & TRAIL



## Potential Experiences





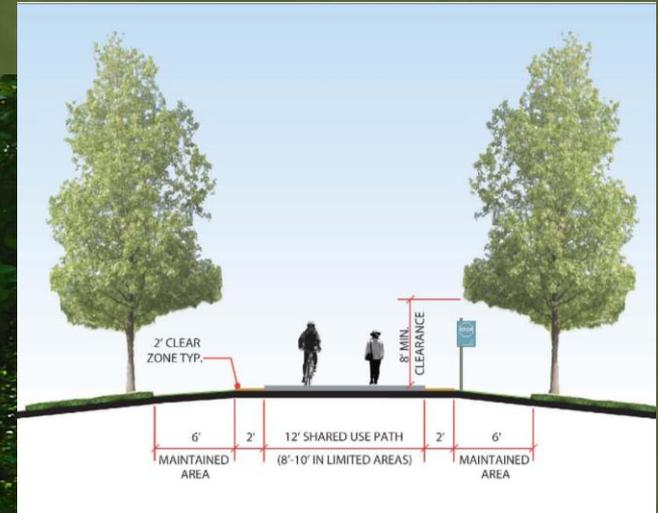
# Shared-Use Path Design Considerations

- **General design**
- **Relationship to roadway**
- **User experiences**
- **Crossings**
- **Signage**
- **Access (trailheads and parking)**



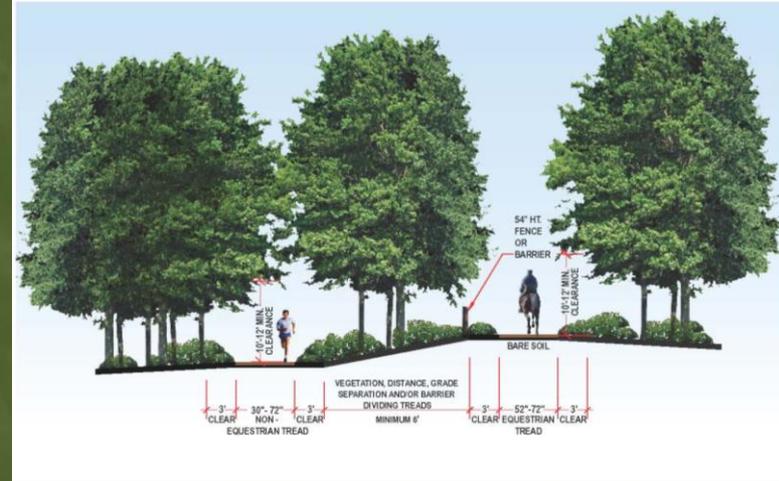


# Shared-Use Path Design Considerations



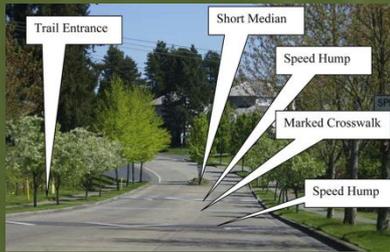


# Shared-Use Path Design Considerations





# Shared-Use Path Design Considerations





## Next Steps

- **Your feedback (today)**
- **Develop alternative alignments (July)**
- **Finalize prelim. line and grade (August)**
- **Submit for agency review (mid August)**
- **Submit Final Phase 1 for PL&G approval (early September)**





# Stay In Touch

[http://www.louisvilleky.gov/MetroParks/  
planninganddesign/projects/mcneelyroadway](http://www.louisvilleky.gov/MetroParks/planninganddesign/projects/mcneelyroadway)

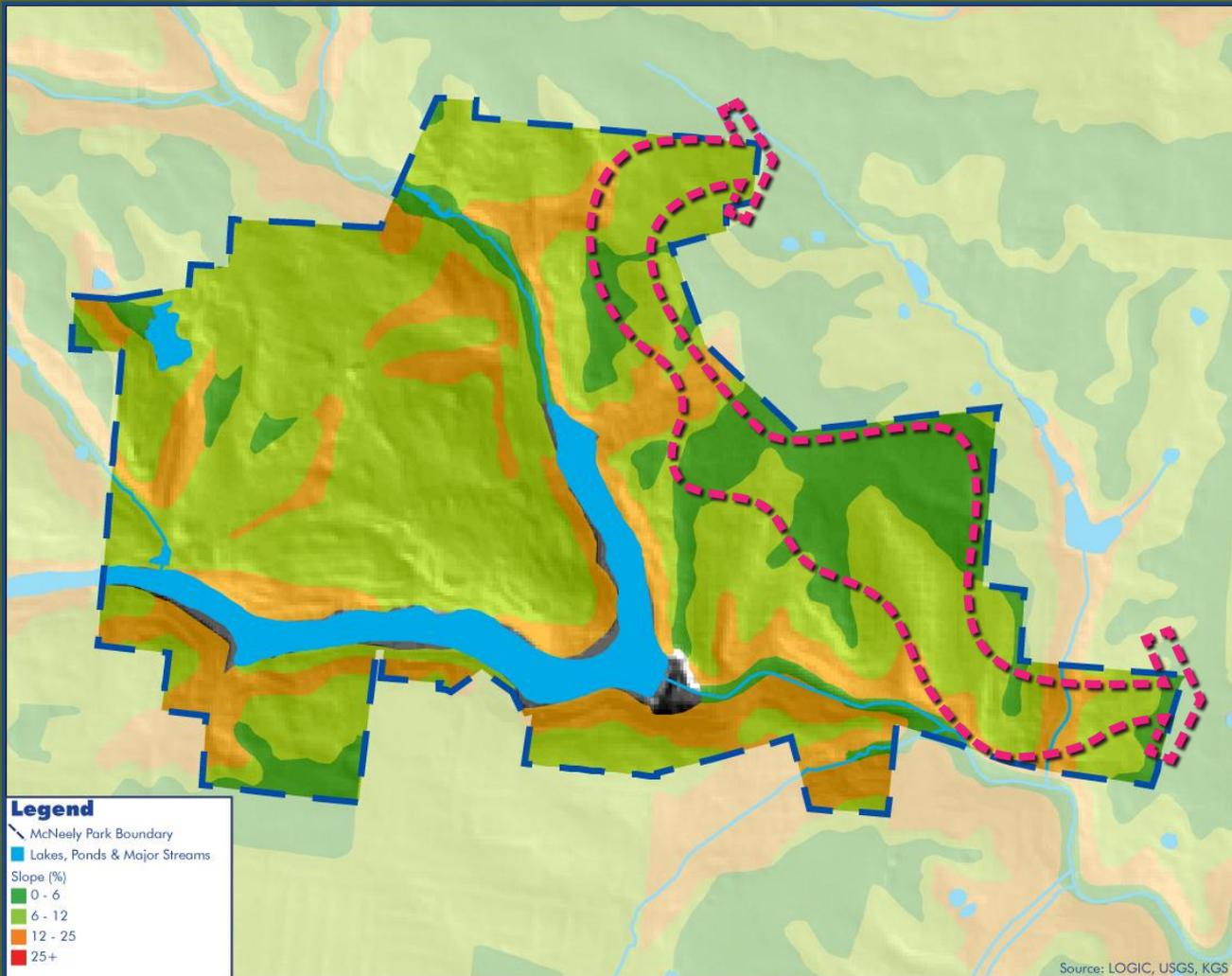




# Natural Resources

## SLOPES

On-site topography varies from flat to moderately steep and influences the location of the new roadway.

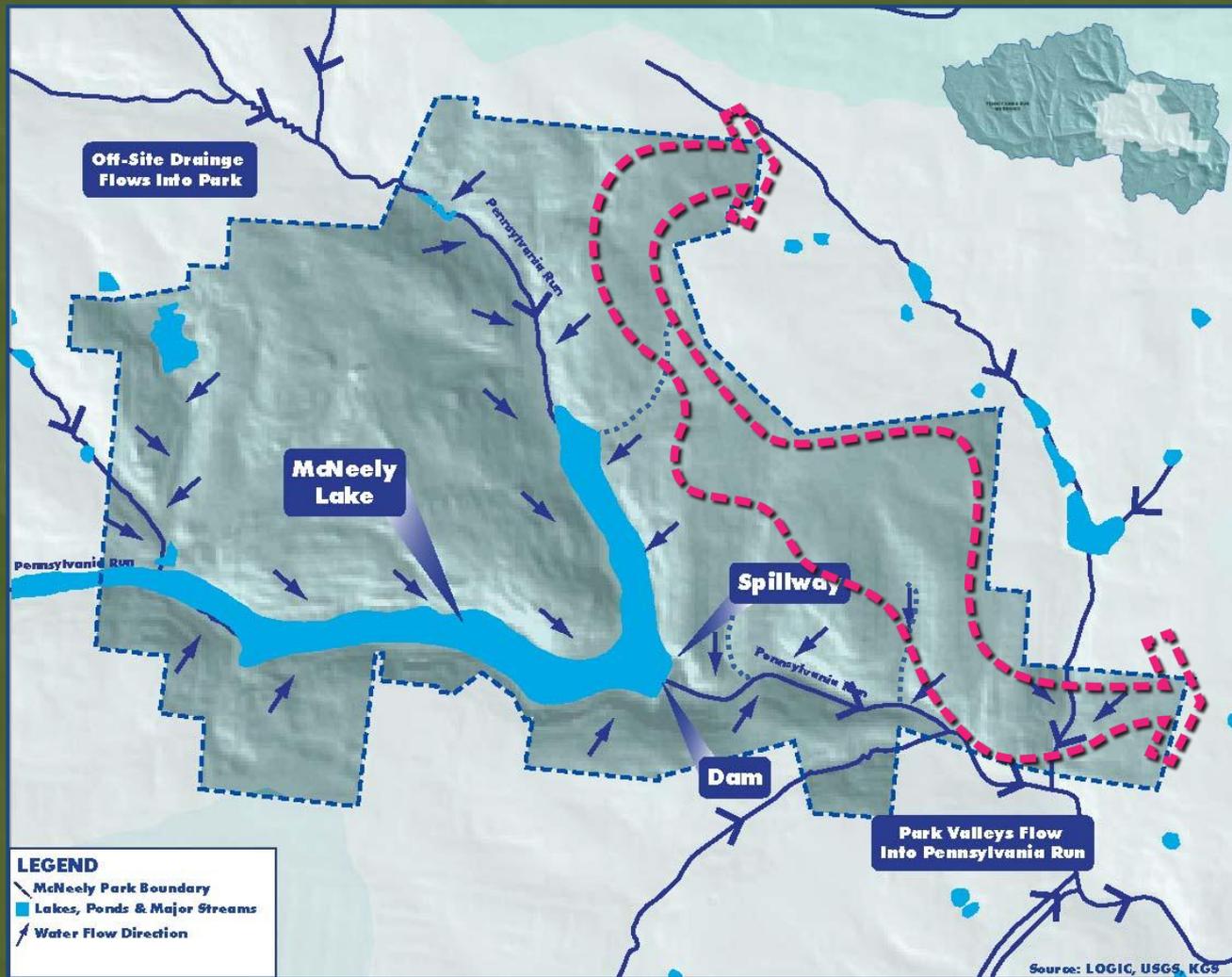




# Natural Resources

## HYDROLOGY

The site includes a wide variety of water features

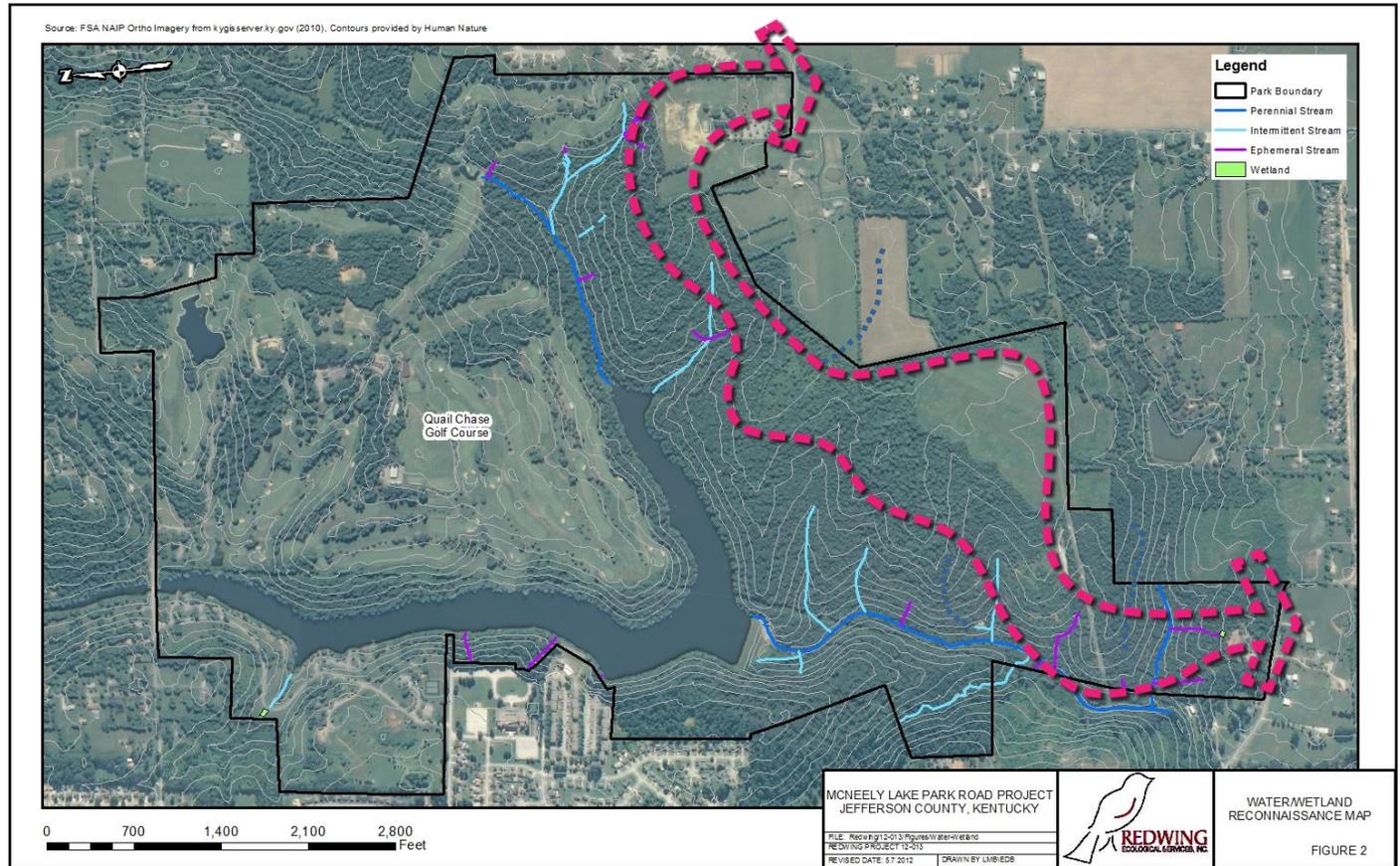




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# Natural Resources

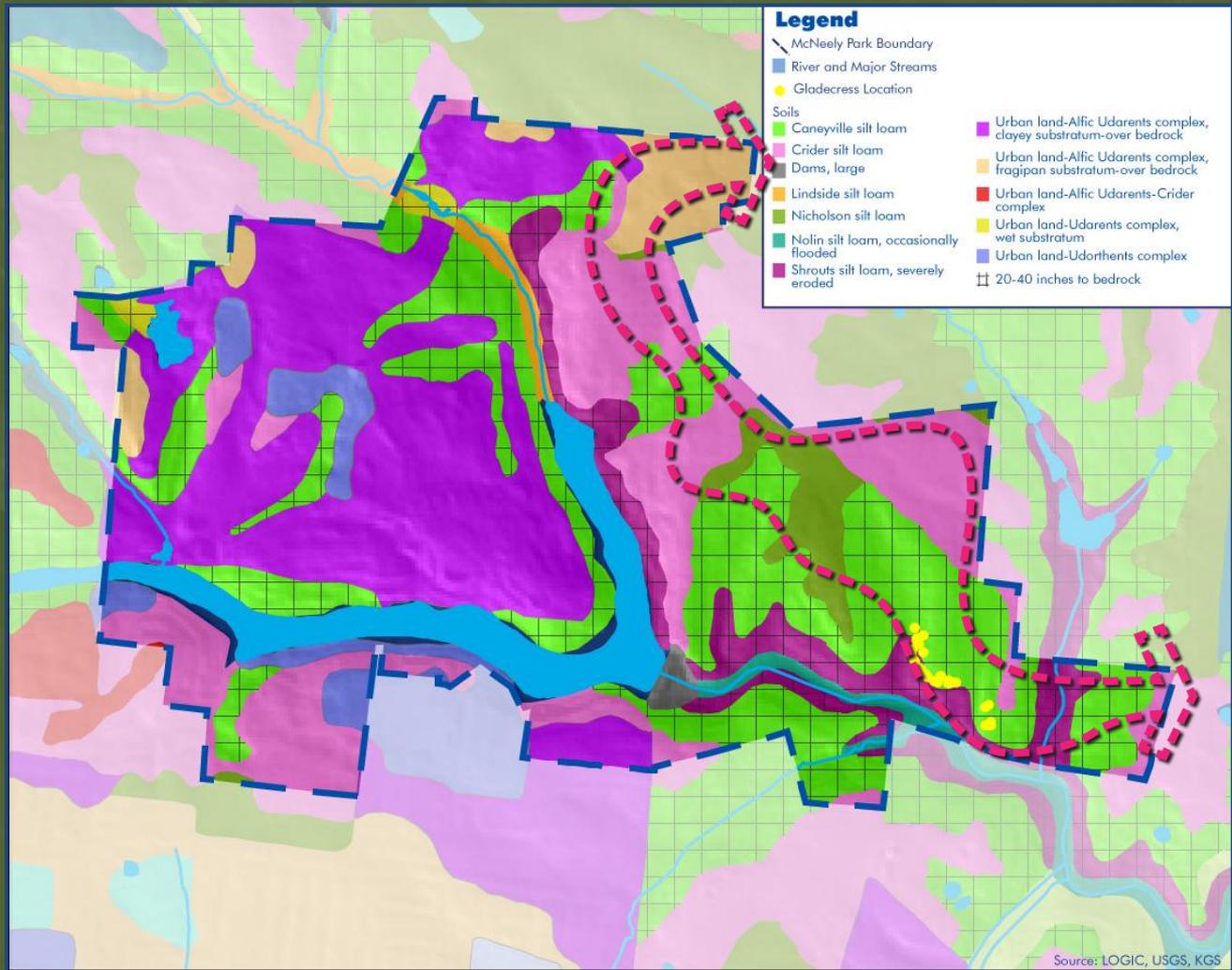
## SOILS

20 – 40 inches to Paralithic (weak) bedrock

- Shrouts silt loam

20 – 40 inches to Lithic (strong) bedrock

- Caneyville silt loam; Caneyville-Rock outcrop; Urban Land-Udarents complex, wet substratum



Source: LOGIC, USGS, KGS



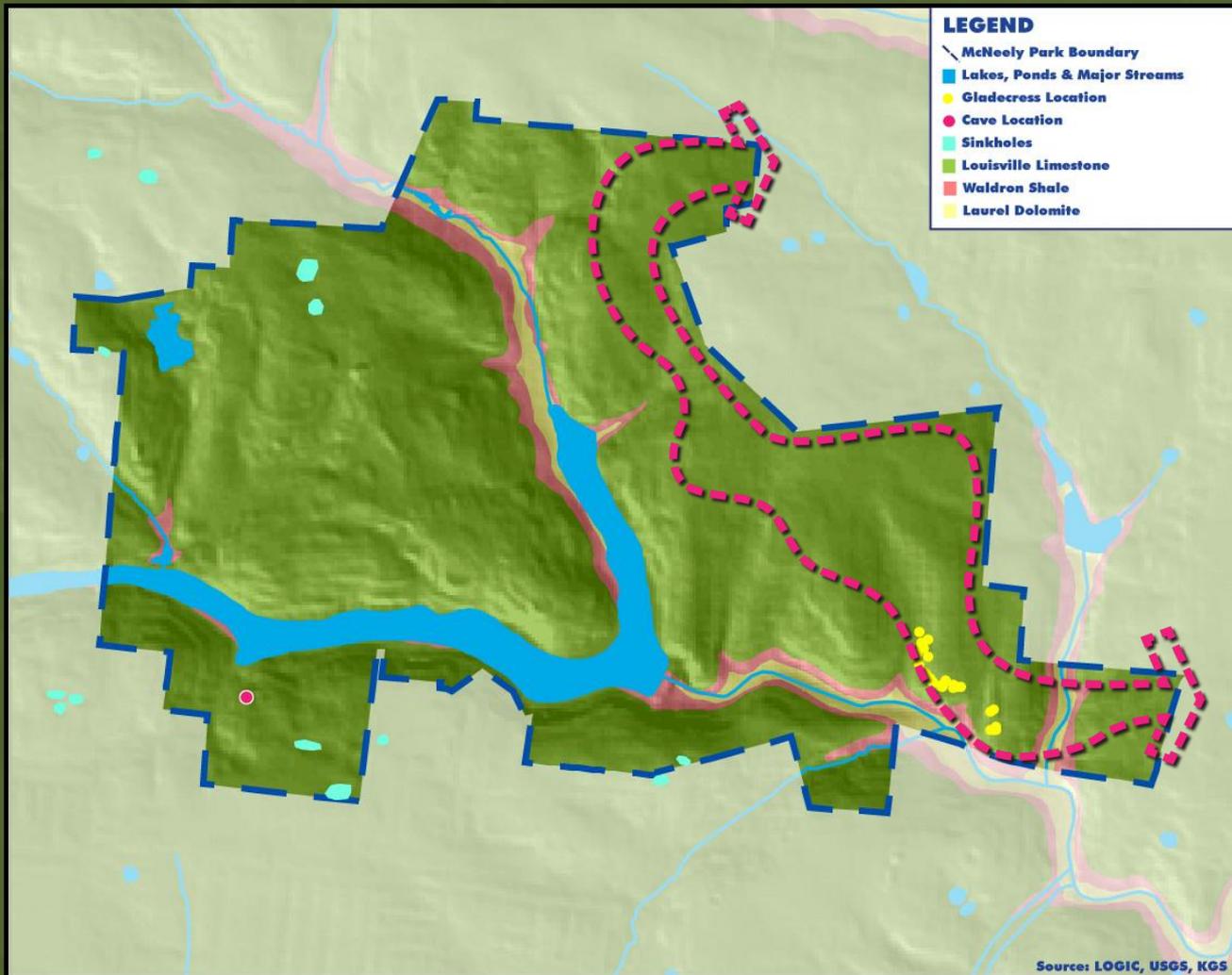


# Natural Resources

## GEOLOGY

Karst- Formed by underground erosion of rocks (i.e., limestone).

Support unique ecosystems and species (i.e., caves and gladeccress)





# Natural Resources



- Small (2"-4") spring blooming native wildflower
- 'Laciniata' is a variety of gladecress found nowhere else in the world but Jefferson and Bullitt counties in Kentucky
- Occurs only on thin soils where limestone substrate comes to surface
- Threatened with extinction due to habitat loss

Source: Kentucky Woodlands Magazine, "Kentucky's Uncommon Natural Heritage", by Thomas G. Barnes, Ph.D., Department of Forestry, University of Kentucky

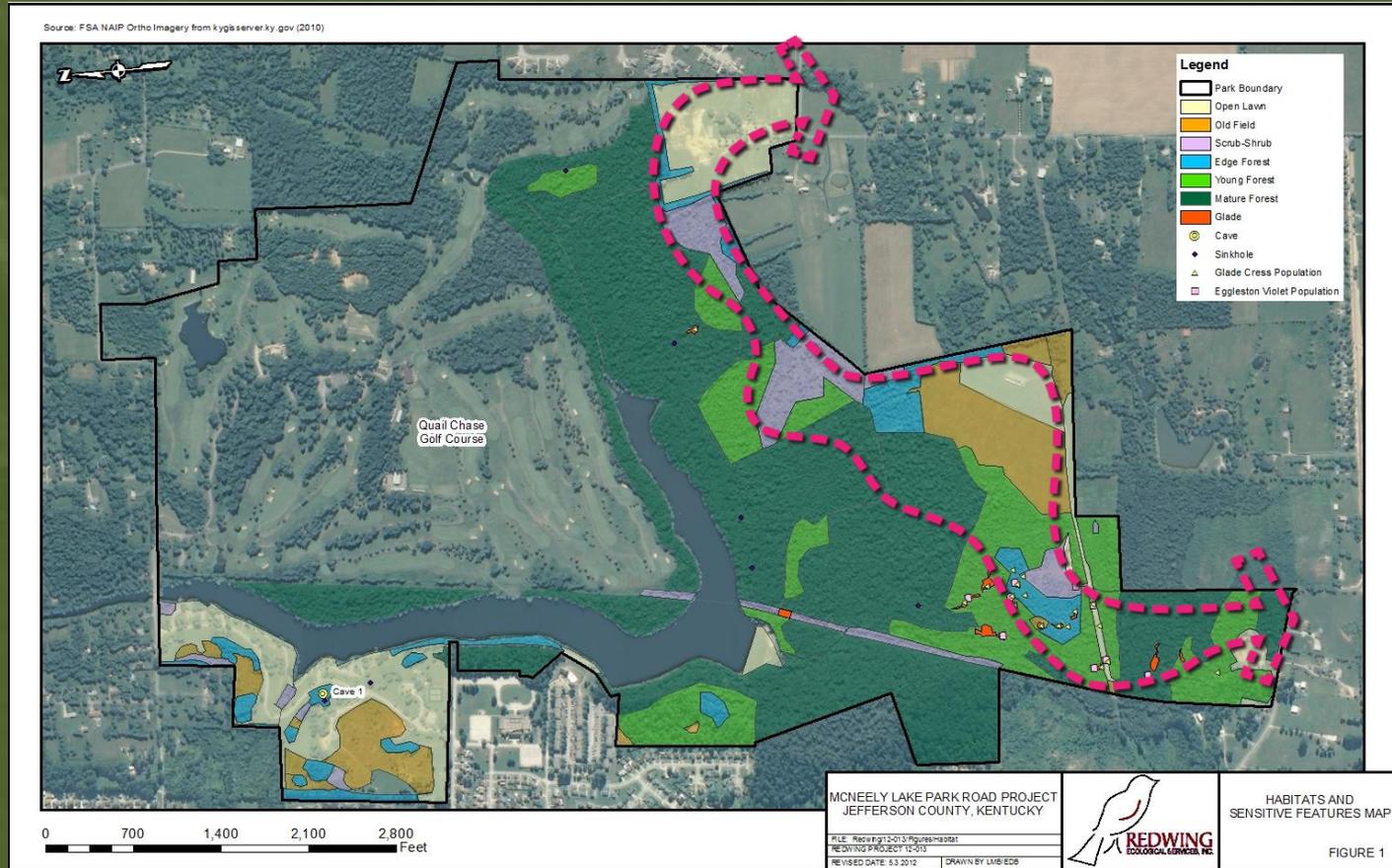




## Natural Resources

### HABITATS & SENSITIVE FEATURES

- Remove infected Ash trees
- Protect McNeely Lake Cave
- Avoid development that would increase erosion to water
- Retain higher quality woods in south-central section of park
- Bush honeysuckle removal
- Avoid disturbance to karst features (e.g., caves, sinkholes, seeps)
- Avoid/enhance glade habitats

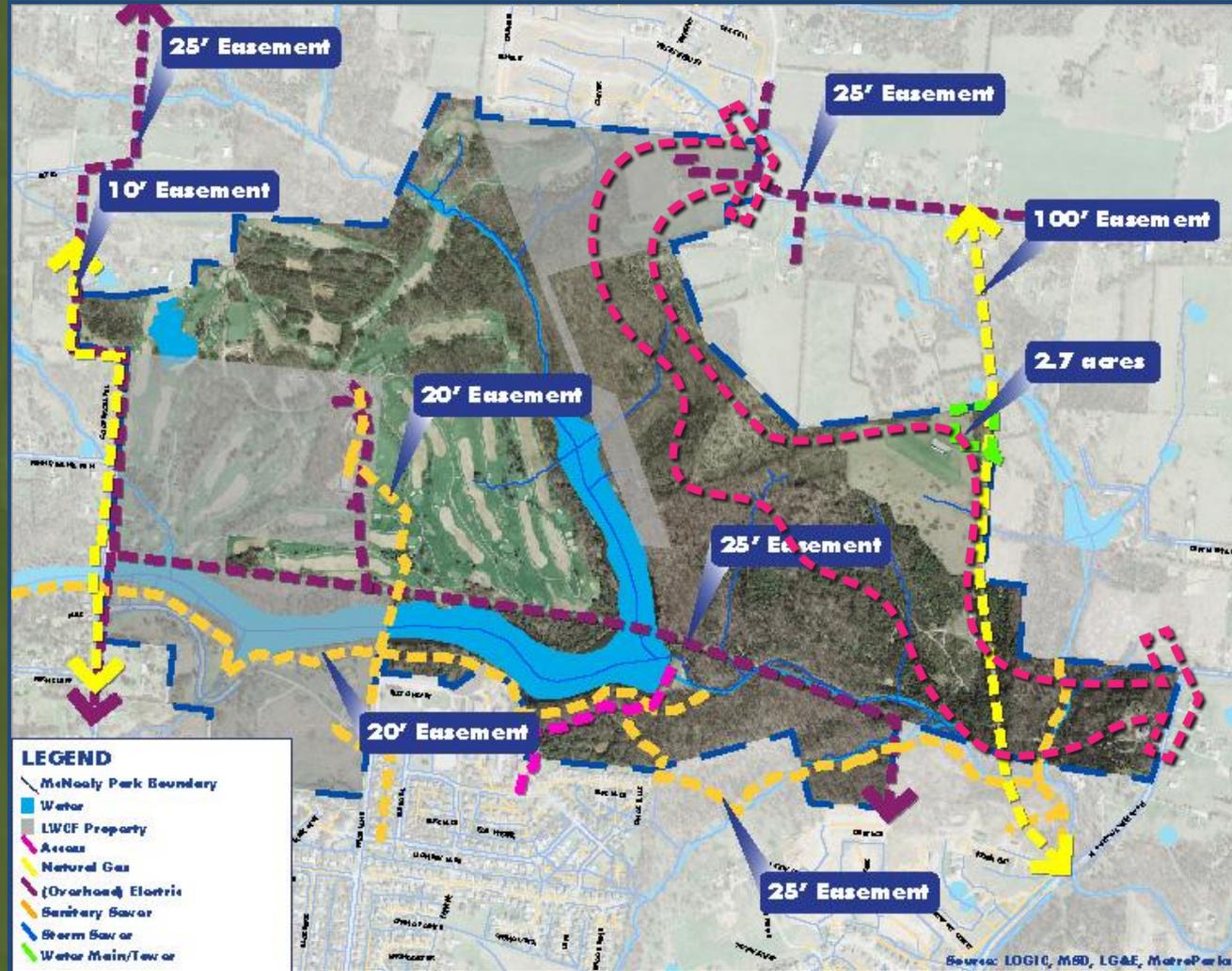




# Cultural Resources

## EASEMENTS

- Several utility easements cross through the site affecting its appearance and usage
- 2.7 acres to be purchased by Louisville Water Company for proposed Water Tower
- LWCF property





# Cultural Resources

View reflects true north- shifted 90 degrees from previous maps

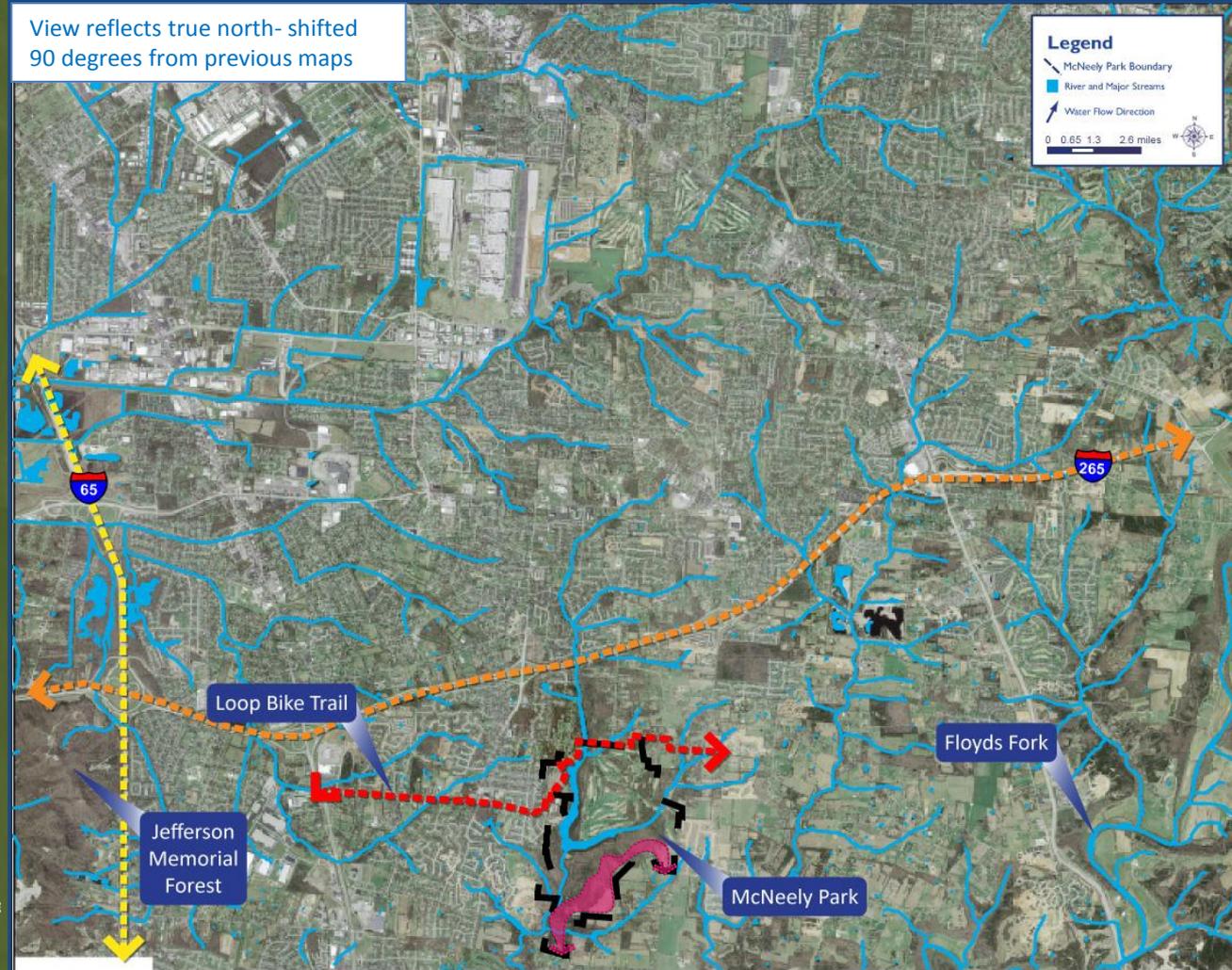
**Legend**

- McNeely Park Boundary
- River and Major Streams
- Water Flow Direction

0 0.65 1.3 2.6 miles

## CONTEXT

- McNeely Lake Park could serve as an ecological stepping stone between Jefferson Memorial Forest and the Floyds Fork watershed.
- The park is part of a chain of parks along the proposed Louisville Loop trail system.





# Cultural Resources

## TRAILS

- Shared (Equestrian & Hiking)
- Nature
- Golf
- Cross Country
- Proposed Louisville Loop Bike Trail Connection

