



PRE-DEVELOPMENT ASSESSMENT PLAN POOLE RD PROPERTY

5326 Poole Rd
PIN: 1733314261
November 2021

PARKS, RECREATION
AND CULTURAL
RESOURCES

EXECUTIVE SUMMARY

The intent of the Pre-Development Assessment Plan (PDAP) is to document existing conditions, inventory natural resources, and provide an interim management plan prior to master planning and park development. The PDAP will provide recommendations for development potential based on opportunities and constraints of the site as shown in the suitability analysis.

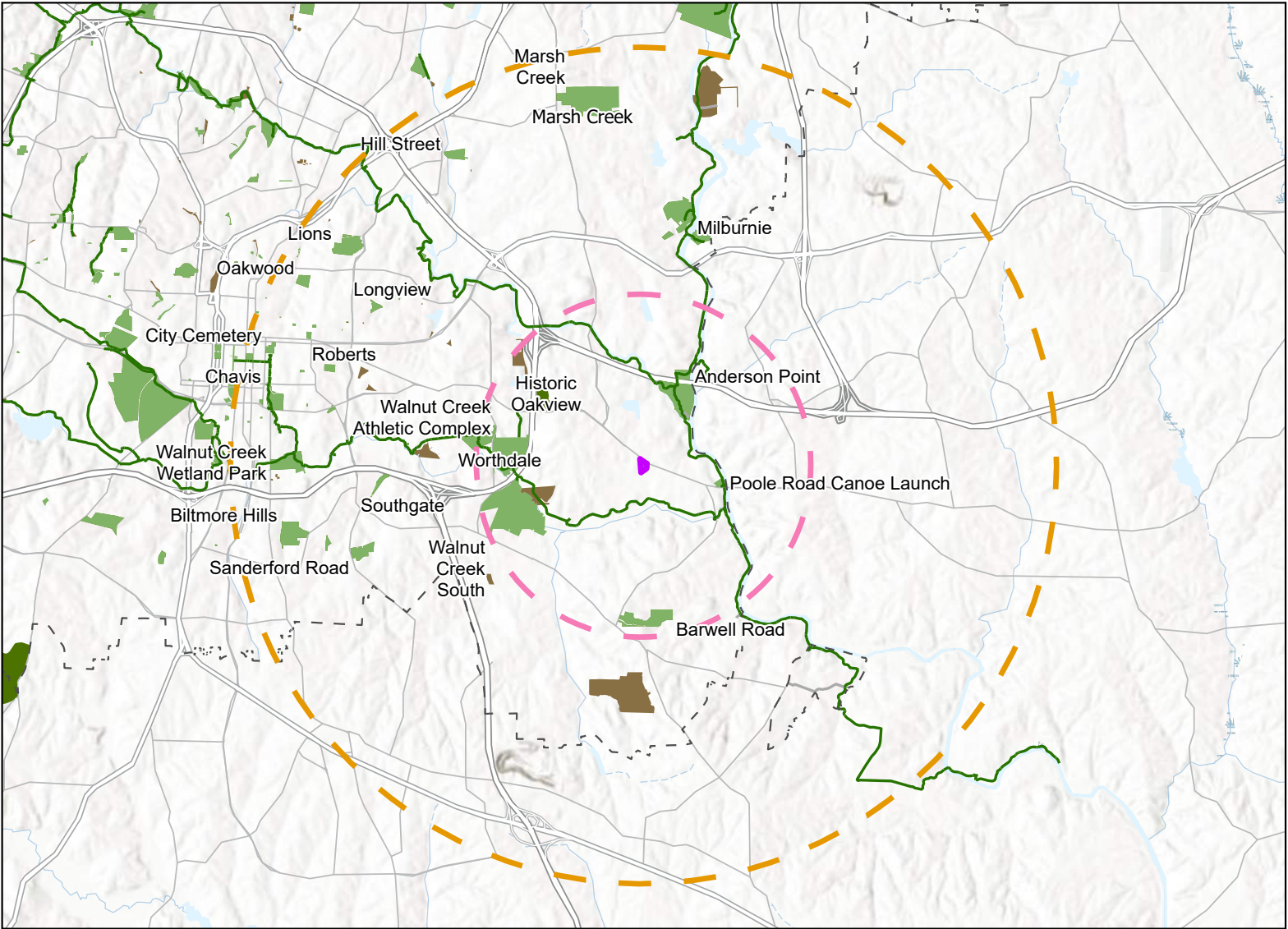
Poole Rd. Property is located at 5326 Poole Rd. southeast of the I-440 Beltline Loop, east of I-40, and south of I-87. The property is west of the Neuse River. The property consists of two parcels totaling 5.63 acres.

The Poole Rd. Property is located near the eastern boundary of the Raleigh Extraterritorial Jurisdiction along the Neuse River. There are several Community Associations and Homeowner Associations in the vicinity including several that are immediately adjacent to the property. There are no existing schools nearby but there is a planned Wake County Public School which will be Poole Rd. Elementary School.

There are many park properties near the Poole Rd. Property ranging from Athletic Complexes to Historic Parks to River-Oriented Parks along the Neuse River. The closest park to the Poole Rd. Property is the Poole Road Canoe Launch.

There are no greenway corridors or greenway trails within the Poole Rd. Property. Nearby is the Walnut Creek Greenway Trail and the Neuse River Greenway Trail. While there are no current plans for a proposed greenway trail within the property, consideration should be given to utilizing the Poole Rd. Property for overflow parking at the Poole Rd Canoe Launch that also provides parking for the Neuse River Greenway Trail.

Parks Context Map



- LEGEND
- 5-Mile Buffer
 - 2-Mile Buffer
 - Poole Rd. Property
 - Raleigh Extraterritorial Jurisdiction
 - County & State Parks
 - Raleigh Parks
 - Developed Parks
 - Undeveloped Parks
 - Raleigh Greenways
 - Greenway Trails
 - Other Trails



Site Suitability

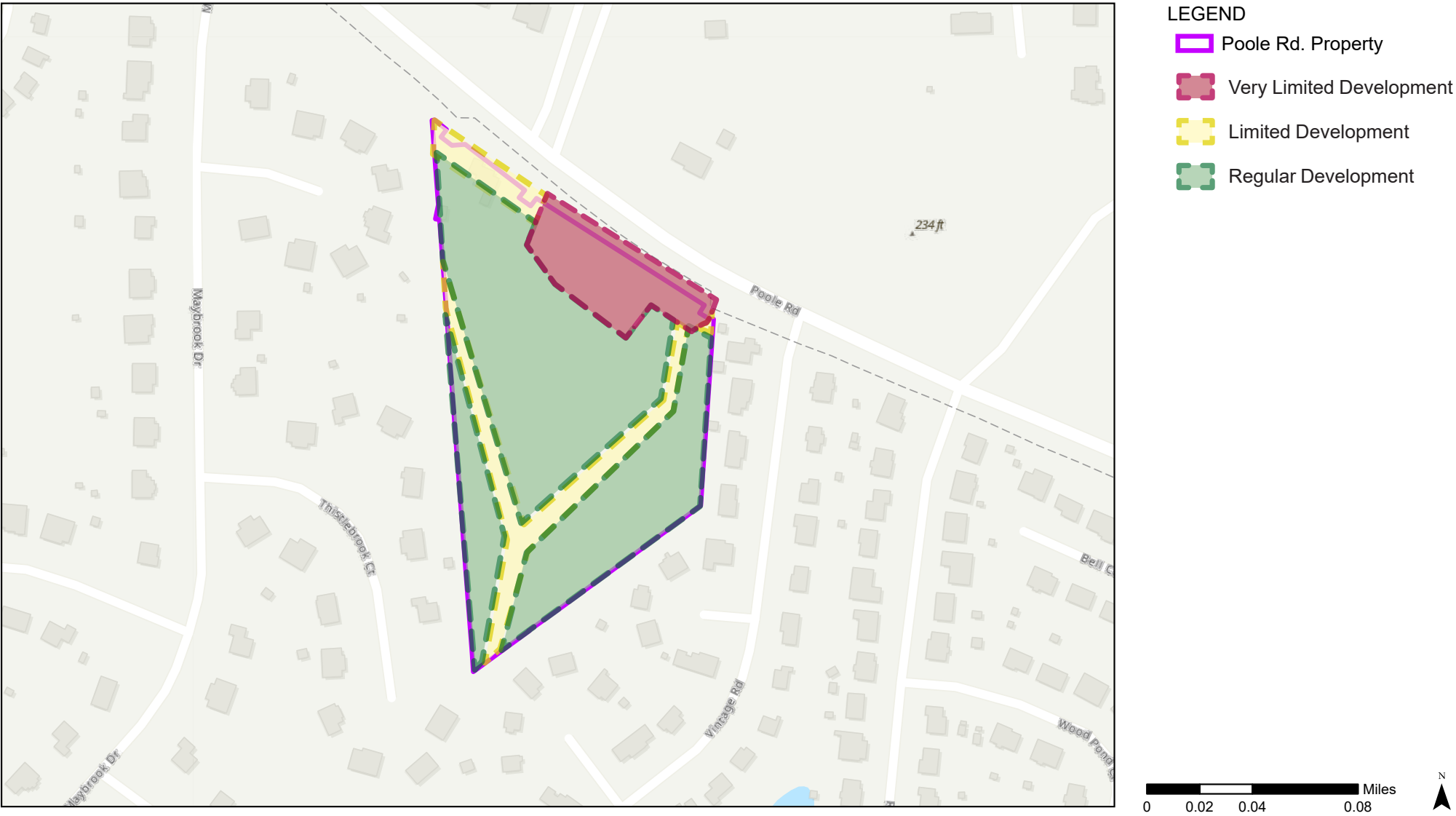
Development of this site for use as a public park will be extremely limited. Total area suitable for regular development will be less than 4 acres. This site may be considered for limited park uses, ideally those that could be provided as walk-to facilities without the need to dedicate significant area of the site to parking. Disposition of this property should be considered if a viable park use cannot be identified within the site constraints.

Based on the analysis of the site suitability overlay, the following map delineates approximate areas of the site that are recommended to have very limited, limited, or regular development.

- Very Limited Development**
 - These areas are suitable for low impact uses such as natural surface trails, nature education, interpretive signage, invasive removal, and creek bank stabilization
- Limited Development**
 - Development in these areas may be restricted by the presence of riparian buffers along creek beds and stormwater channels
- Regular Development**
 - These areas have no significant or special limitations on development and are open to most design choices that will facilitate a versatile park property.

Site Suitability Analysis - Development Capacity	
Area Suitable for Very Limited Development	1 Acres
Area Suitable for Limited Development	1 Acres
Area Suitable for Regular Development	3.6 Acres
Total Park Area	5.6 Acres

Site Suitability Map



Interim Management Plan

Primary Short-term Goals And Objectives

- 1. Implementation of coordinated monitoring and mapping efforts aiding in the development of biological inventories, identifying unauthorized uses, and potentially negative impacts to natural resources
- 2. Evaluation and control of invasive plant species
- 3. Reduction of unauthorized vehicular and foot traffic to prevent illegal hunting and the degradation of sensitive ecological resources

Long-term Goals

- 1. Implementation of additional ecological monitoring and mapping efforts
- 2. Retention and protection of documented significant plant and animal species
- 3. Improvement of wildlife habitat and natural plant communities through ecological restoration practices

Site Images



Boulders



Boulders



Field



Large Trees



Large Beech Tree



Creek



Boulders



Field

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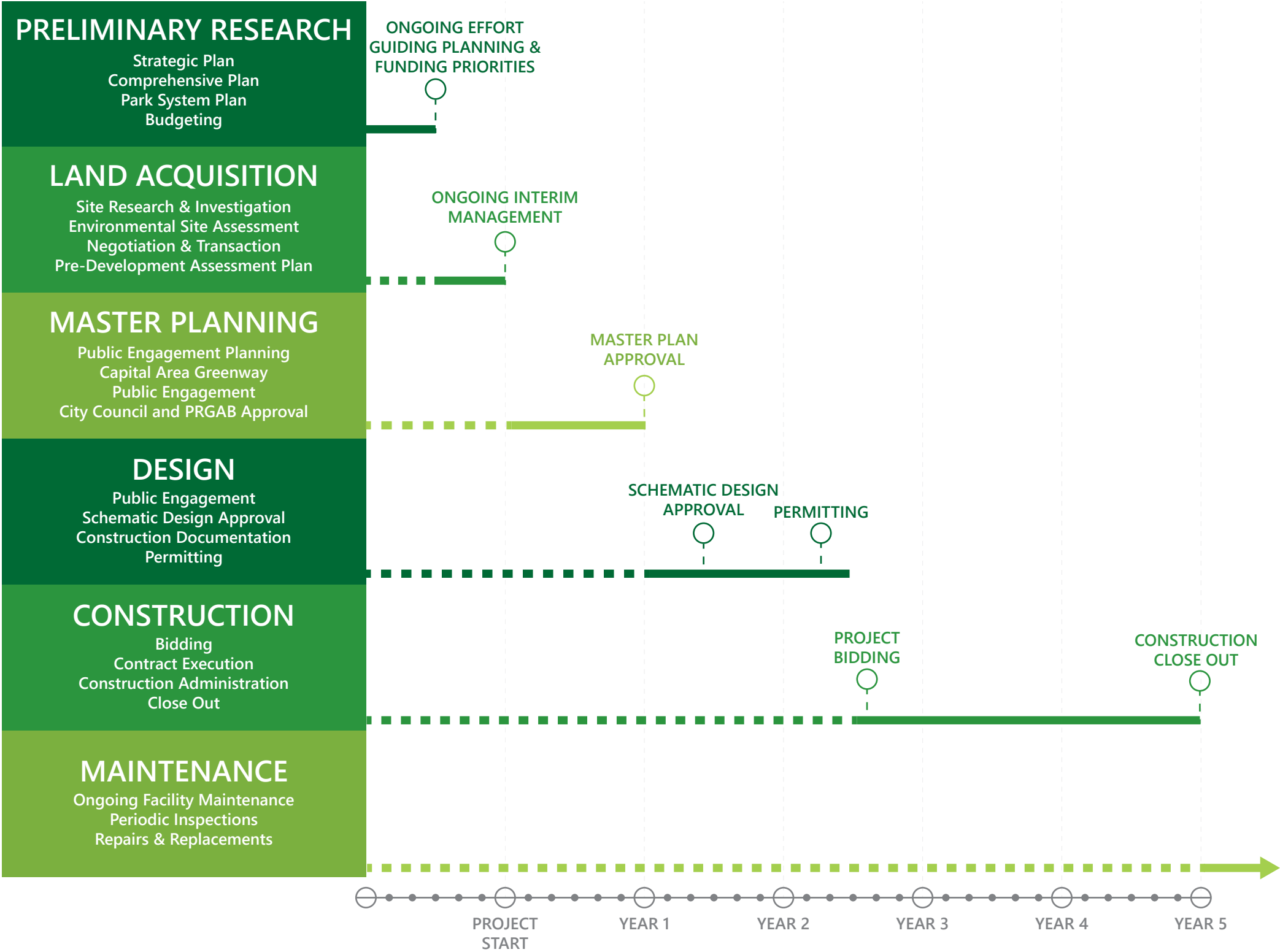
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PLANNING PROCESS

As shown in the Park Planning & Development Process timeline on this page, a Pre-Development Assessment Plan (PDAP) is conducted on an undeveloped park property after the site has been acquired by the City of Raleigh and before any master planning for the site occurs.

The intent of the Pre-Development Assessment Plan (PDAP) is to document existing conditions, inventory natural & cultural resources, and provide an interim management plan prior to master planning and park development. The PDAP will provide recommendations for development potential based on opportunities and constraints of the site as shown in the suitability analysis.

Park Planning & Development Process

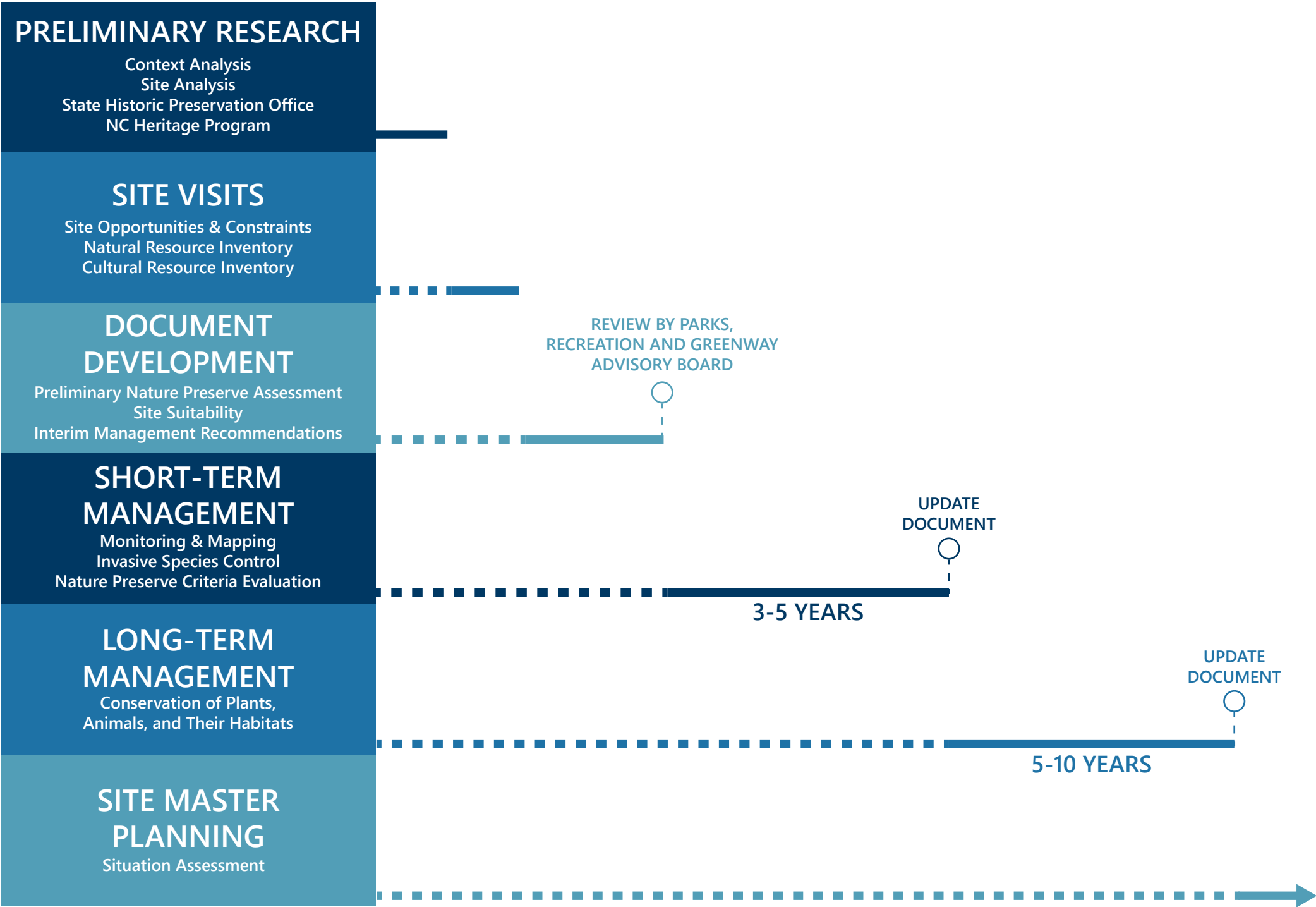


The Pre-Development Assessment Plan (PDAP) includes context and site analysis, as well as data acquired by the State Historic Preservation Office and the NC Heritage Program. Multiple site visits occur where City staff document site opportunities & constraints, and conduct natural & cultural resource inventory. While staff develop the PDAP document, they conduct a preliminary Nature Preserve assessment, as well as developing site suitability diagrams, and interim management recommendations.

Once the PDAP document is reviewed by the Parks, Recreation and Greenway Advisory Board (PRGAB), short-term management of the site begins. This includes but is not limited to monitoring & mapping, invasive species control, and a full Nature Preserve criteria evaluation. On average, short-term management takes 3-5 years after the PDAP document is reviewed by PRGAB. New information gathered during the short-term management, as well as the results of the Nature Preserve criteria evaluation are then updated in the PDAP document.

After short-term management is complete, the site moves into long-term management. This includes but is not limited to conservation of the site’s plants, animals and their habitats. On average, long-term management takes place 5-10 years after the PDAP document is reviewed by PRGAB. New information gathered during the long-term management is then updated in the PDAP document. At this point the site usually moves onto site master planning, although some sites may remain in long-term management past the 5-10 year mark. When the site moves onto the master planning phase, information from the PDAP will be included in the Situation Assessment, that is the first step of the master planning process.

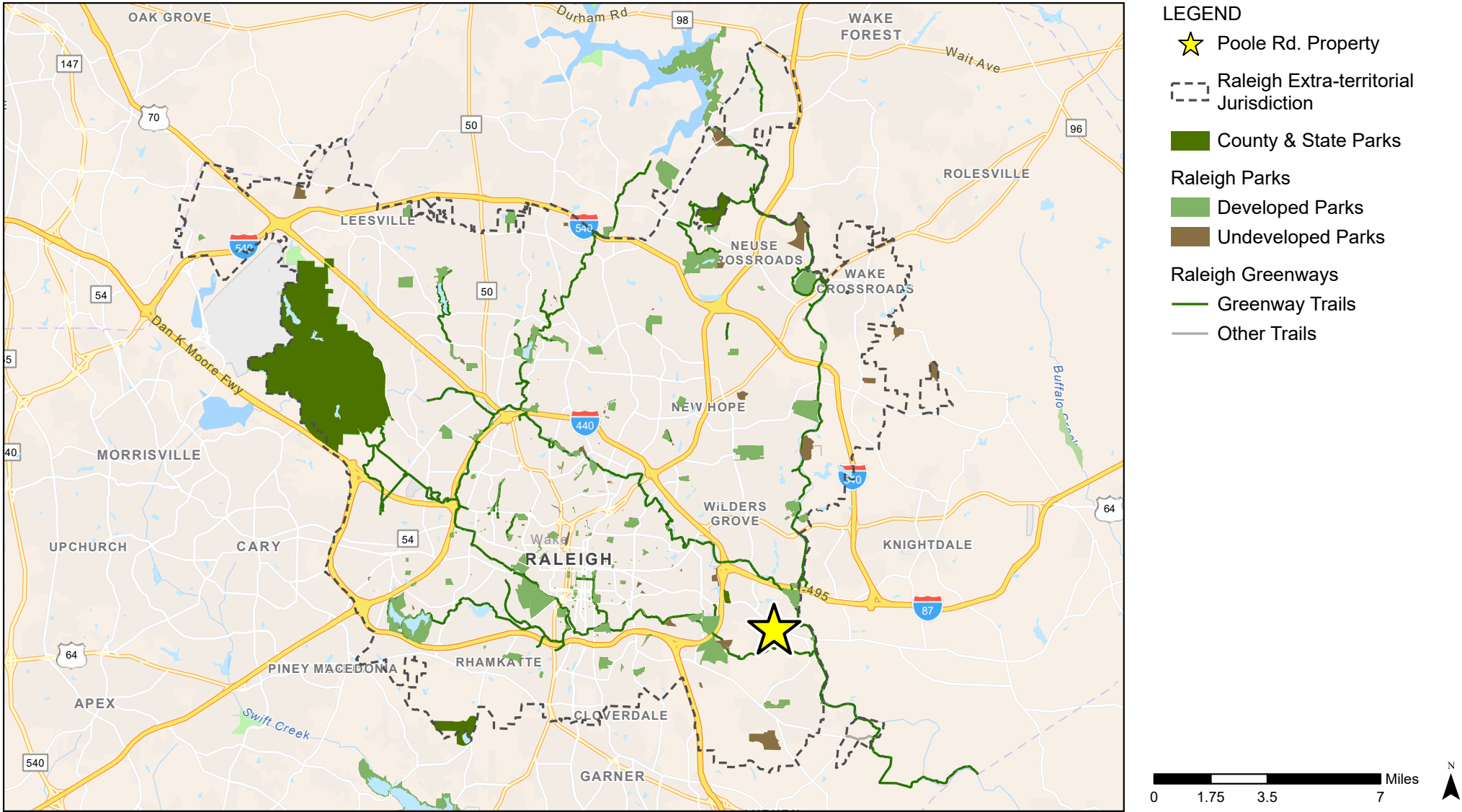
Pre-Development Assessment & Management Process



INTRODUCTION

Poole Rd. Property is located at 5326 Poole Rd. southeast of the I-440 Beltline Loop, east of I-40, and south of I-87. The property is west of the Neuse River. The property consists of two parcels totaling 5.63 acres.

Context Map

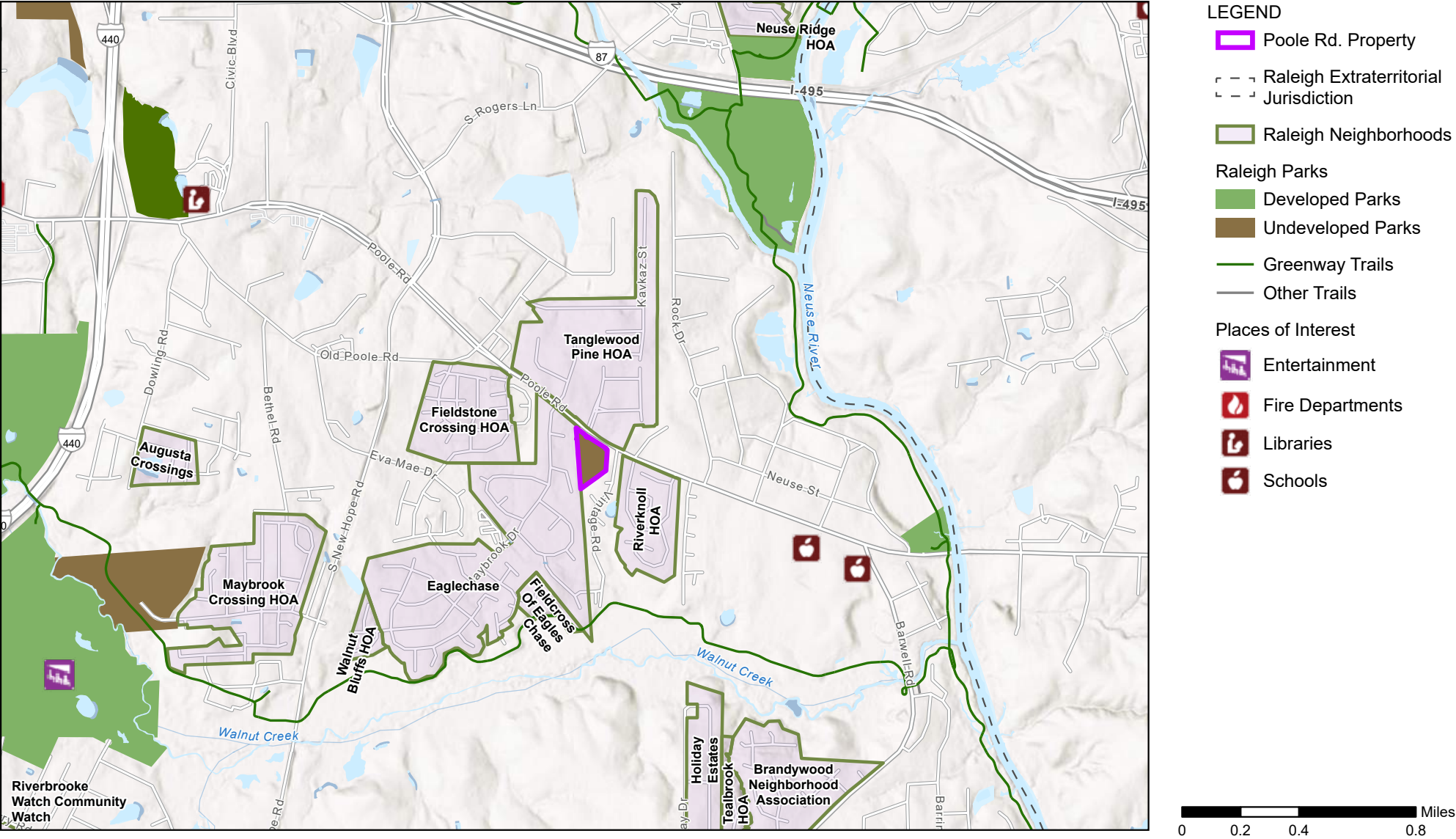


CONTEXT ANALYSIS

The Poole Rd. Property is located near the eastern boundary of the Raleigh Extraterritorial Jurisdiction along the Neuse River. There are several Community Associations and Homeowner Associations in the vicinity including several that are immediately adjacent to the property. There are no existing schools nearby but there is a planned Wake County Public School which will be Poole Rd. Elementary School.

It is recommended that during a community engagement process for the development of the Pearl Creek Property that outreach is conducted through the Community & Homeowner Associations, as well as the nearby Poole Rd. Elementary School once it is built.

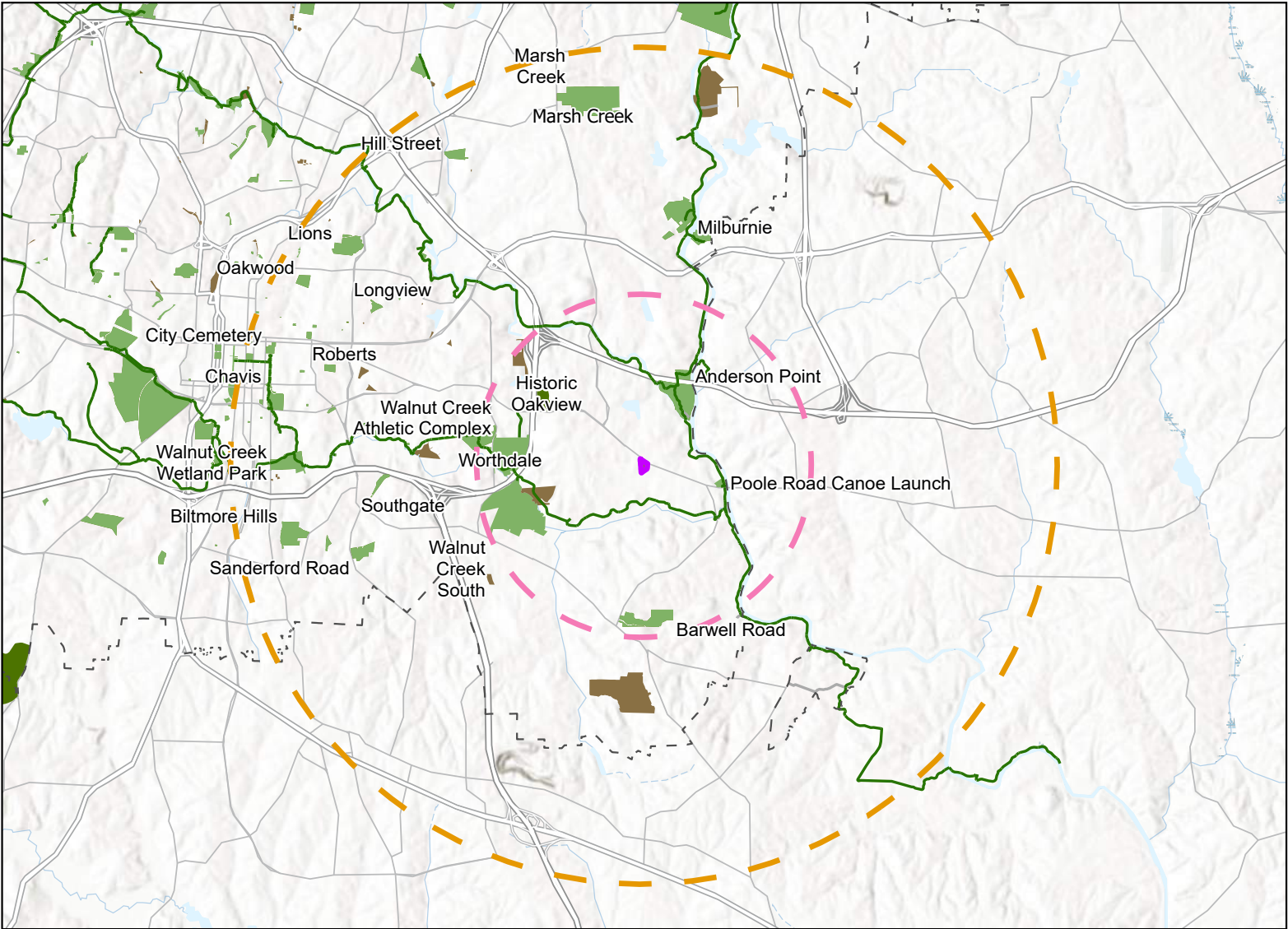
Vicinity Map



There are many park properties near the Poole Rd. Property ranging from Athletic Complexes to Historic Parks to River-Oriented Parks along the Neuse River. The closest park to the Poole Rd. Property is the Poole Road Canoe Launch.

It is recommended that any future planning of the Poole Rd. Property consider how this property could compliment the system of parks already in this area, and the other undeveloped park properties.

Parks Context Map



- LEGEND
- 5-Mile Buffer
 - 2-Mile Buffer
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 - Undeveloped Parks
 - Raleigh Greenways
 - Greenway Trails
 - Other Trails

The following tables provide information on which park experiences are currently provided by other parks in this area of the city and which park experiences are not currently available to residents in this vicinity. This information can be used to guide the future master planning of the Poole Rd. Property. Experiences included in the Poole Rd. Master Plan should be consistent with the vision and goals established for Poole Rd. Park, and should serve the needs of the immediate community while complementing the facilities and amenities provided by other units of the park system in this area.

The first table to the right provides a list of park experiences that are **not** currently provided by any City of Raleigh park locations within a 5-mile radius of the Poole Rd. Property. This list represents some of the potential experiences that are currently “missing” from the park and recreation opportunities provided in this area. The experiences in this list should be considered for inclusion in the master plan since they would provide new, unique opportunities for residents in this vicinity.

The second table to the right provides information on park experiences that are already provided within a 2-mile radius of this property. When planning for development of Poole Rd. Park, it may not be necessary to replicate the community-scale facilities and amenities (such as a community center, dance studio, and weight room) already provided within a 2-mile radius of this site.

The third table, on the following page, lists all park experiences currently provided within a larger 5-mile radius of this site. This information can be used to further inform the future master plan of Poole Rd. Park.

It is recommended these lists be updated at the start of any future planning process.

Not Provided Within 5 Miles

Experience
Aquatic Center
Swimming Pool - Indoor
Active Adult Center
Arts Center
Indoor Stage
Bocce
Disc Golf
Handball
Outdoor Game Tables
Table Tennis - Outdoor
Throwing Pit - Discus/ Shotput
Community Garden
Sensory Garden
Constructed Wetland
Boat Rentals
Lake
Batting Cage
Multipurpose Court
Pickleball Court - Outdoor
Tennis Center
Volleyball - Grass
Volleyball - Sand
Amusement Train
Kiddie Boat Ride
Pedal Boats
Mountain Bike Trails

Within 2 Miles

Experience	Parks Providing the Experience
Bike Repair Station	Anderson Point
Comfort Station	Anderson Point, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Grill	Anderson Point, Historic Oakview, Worthdale
Educational Signage	Anderson Point, Historic Oakview
Outdoor Water Fountain - People	Anderson Point, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Community Center	Barwell Road, Worthdale
Concessions	Walnut Creek Athletics Complex
Dance Studio	Barwell Road
Fitness Center/ Weight Room	Barwell Road, Worthdale
Rentable Building	Anderson Point
Table Tennis - Indoor	Worthdale
Pollinator/ Native Garden	Historic Oakview
Historic Exhibit	Historic Oakview
Historic Signage	Historic Oakview
Historic Site	Historic Oakview
Historic Structure	Anderson Point, Historic Oakview
Visitor Center	Historic Oakview
Canoe & Kayak Launch	Anderson Point, Poole Road Canoe Launch
Fishing Access	Poole Road Canoe Launch, Historic Oakview
Wildlife Viewing	Poole Road Canoe Launch, Historic Oakview
Nature Education	Historic Oakview
River	Anderson Point, Poole Road Canoe Launch
Pond	Anderson Point, Historic Oakview
Wetland	Barwell Road, Poole Road Canoe Launch, Walnut Creek Athletics Complex, Worthdale
Creek	Anderson Point, Barwell Road, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Ballfields	Walnut Creek Athletics Complex, Worthdale
Basketball - Indoor (Half Court)	Barwell Road
Basketball - Indoor (Full Court)	Barwell Road, Worthdale
Basketball - Outdoor (Full Court)	Worthdale
Multipurpose Field	Barwell Road
Open Play Field	Anderson Point, Barwell Road, Poole Road Canoe Launch, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Tennis Courts	Worthdale
Volleyball - Indoor	Barwell Road
Ampitheatre	Anderson Point
Park Bench	Anderson Point, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Picnic Table	Anderson Point, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Picnic Shelter	Anderson Point, Historic Oakview, Worthdale
Playgrounds: 2-5	Anderson Point, Worthdale
Playgrounds: 5-12	Anderson Point, Worthdale
Trails - Paved	Anderson Point, Poole Road Canoe Launch, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Trails - Natural Surface/Unpaved	Anderson Point, Historic Oakview
Trails - Loop	Anderson Point, Barwell Road, Historic Oakview, Walnut Creek Athletics Complex, Worthdale
Walking Path	Barwell Road

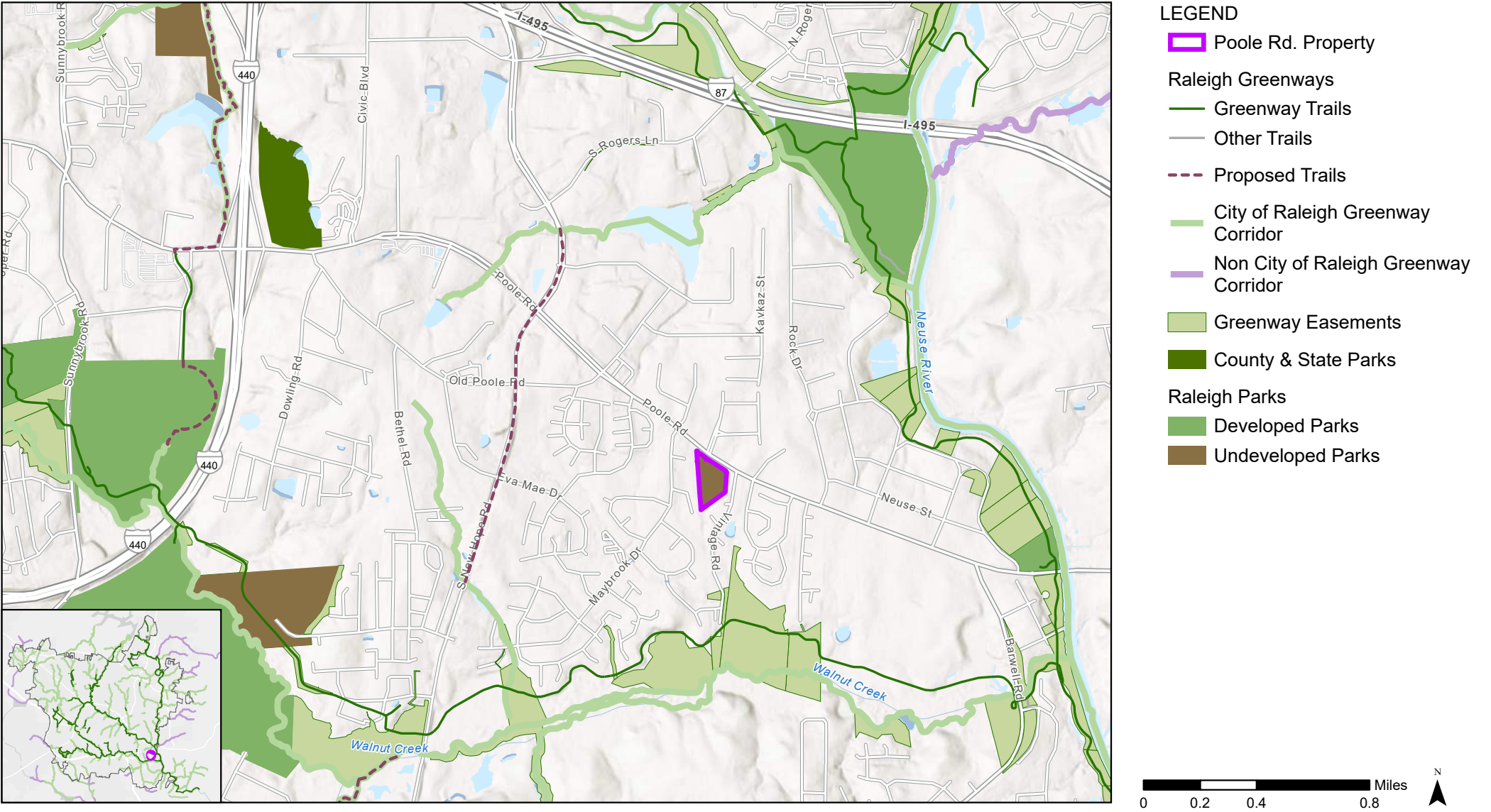
Within 5 Miles

Experience	Parks Providing the Experience
Bike Repair Station	Anderson Point, Walnut Creek Wetland Center
Car Charging Station	Walnut Creek Wetland Center
Comfort Station	Anderson Point, Biltmore Hills, John Chavis Memorial Park, Davie Street, Historic Oakview, Lions, Marsh Creek, Martin L King Jr
Grill	Anderson Point, Apollo Heights, Biltmore Hills, Bragg Street, John Chavis Memorial Park, Davie Street, Hill Street, Historic
Educational Signage	Anderson Point, Apollo Heights, John Chavis Memorial Park, Historic Oakview, Sanderford Road, Walnut Creek Wetland Center
Outdoor Water Fountain - People	Anderson Point, Biltmore Hills, John Chavis Memorial Park, Davie Street, Fisher Street, Hill Street, Historic Oakview, Junious N. Sorrell, Kingwood Forest, Levelle Moton, Lions, Longview, Marsh Creek, Martin L King Jr Memorial, Oakwood, Quarry Street,
Outdoor Water Fountain - Dogs	Hill Street, Oakwood, Walnut Creek Wetland Center
Splashpad	John Chavis Memorial Park
Swimming Pool - Outdoor	Biltmore Hills, Longview
Community Center	Barwell Road, Biltmore Hills, John Chavis Memorial Park, Lions, Marsh Creek, Roberts, Tarboro Road, Worthdale
Environmental Education Center	Walnut Creek Wetland Center
Neighborhood Center	Apollo Heights, Hill Street, John P Top Greene, Sanderford Road, Southgate
Teen Center	Tarboro Road
Concessions	Moore Square, Walnut Creek Athletics Complex
Computer Lab	Apollo Heights, John Chavis Memorial Park, John P Top Greene, Marsh Creek, Sanderford Road, Tarboro Road
Dance Studio	Barwell Road, Biltmore Hills, John Chavis Memorial Park, Tarboro Road
Fitness Center/ Weight Room	Barwell Road, Biltmore Hills, John Chavis Memorial Park, Lions, Marsh Creek, Roberts, Tarboro Road, Worthdale
Library Room	Walnut Creek Wetland Center
Rentable Building	Anderson Point, John Chavis Memorial Park, Moore Square, Tarboro Road
Horseshoe	Kingwood Forest, Lions
Table Tennis - Indoor	Worthdale
Pollinator/ Native Garden	Carver, Historic Oakview, Marsh Creek, Walnut Creek Wetland Center
Bio-Retention Pond/Rain Garden	John Chavis Memorial Park, Hill Street, Martin L King Jr Memorial, Walnut Creek Wetland Center
Cistern	Walnut Creek Wetland Center
Green Roof	Hill Street
Permeable Pavement	Apollo Heights, Carver, Lions
Historic Exhibit	John Chavis Memorial Park, Historic Oakview, Martin L King Jr Memorial, Moore Square, Pope House
Historic Signage	John Chavis Memorial Park, Historic Oakview, Martin L King Jr Memorial, Moore Square, Pope House
Historic Site	John Chavis Memorial Park, Historic Oakview, Moore Square, Pope House, Tucker House
Historic Structure	Anderson Point, John Chavis Memorial Park, Historic Oakview, Moore Square, Pope House, Tucker House
Museum	Pope House
Visitor Center	Historic Oakview, Moore Square, Walnut Creek Wetland Center
Canoe & Kayak Launch	Anderson Point, Milburnie, Poole Road Canoe Launch
Fishing Access	Historic Oakview, Milburnie, Poole Road Canoe Launch
Wildlife Viewing	Historic Oakview, Poole Road Canoe Launch, Walnut Creek Wetland Center
Nature Education	Historic Oakview, Walnut Creek Wetland Center
Nature-Oriented Exhibit	Walnut Creek Wetland Center
Nature-Oriented Educational Signage	Walnut Creek Wetland Center
River	Anderson Point, Milburnie, Poole Road Canoe Launch
Pond	Anderson Point, Historic Oakview, Marsh Creek
Wetland	Apollo Heights, Barwell Road, John Chavis Memorial Park, Dacian, Hill Street, Kingwood Forest, Lions, Lockwood, Marsh Creek,
Creek	Anderson Point, Apollo Heights, Barwell Road, Biltmore Hills, John Chavis Memorial Park, Hill Street, Historic Oakview, Kingwood Forest, Lions, Marsh Creek, Martin L King Jr Memorial, Meadowbrook, Roberts, Sanderford Road, Southgate, Walnut
Other Natural Water	Walnut Creek Wetland Center

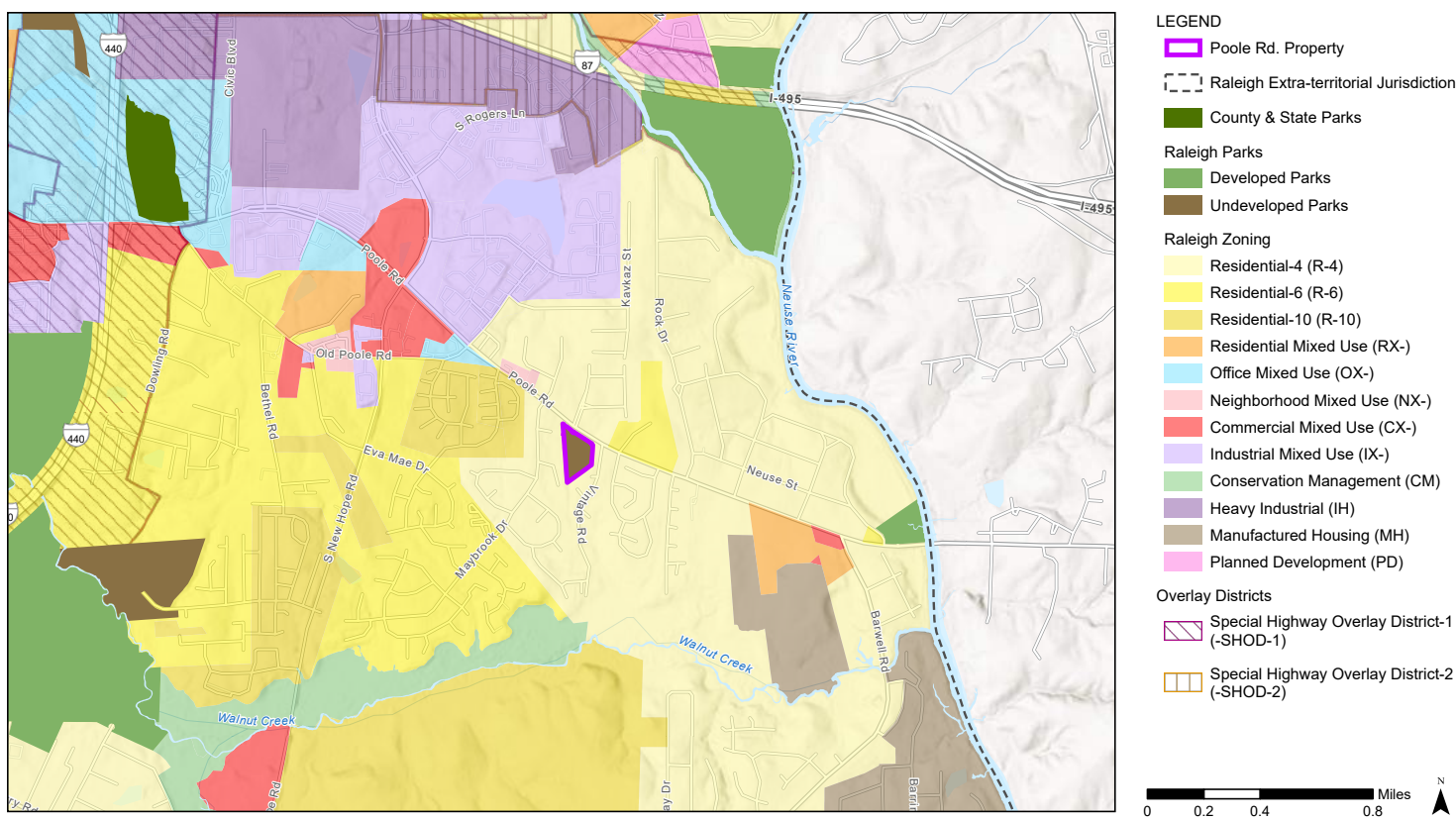
Experience	Parks Providing the Experience
Ballfields	Biltmore Hills, John Chavis Memorial Park, Lions, Marsh Creek, Oakwood, Roberts, Sanderford Road, Southgate, Walnut Creek
Basketball - Indoor (Half Court)	Barwell Road, John Chavis Memorial Park
Basketball - Indoor (Full Court)	Barwell Road, Biltmore Hills, John Chavis Memorial Park, Lions, Marsh Creek, Roberts, Tarboro Road, Worthdale
Basketball - Outdoor (Half Court)	Bragg Street, Fisher Street, Lions, Oakwood
Basketball - Outdoor (Full Court)	Apollo Heights, Biltmore Hills, Dacian, Davie Street, Kingwood Forest, Levelle Moton, Quarry Street, Roberts, Sanderford Road,
Multipurpose Field	Barwell Road, John Chavis Memorial Park, Southgate,
Open Play Field	Anderson Point, Apollo Heights, Barwell Road, Biltmore Hills, John Chavis Memorial Park, Culpepper Circle, Davie Street, Hill Street, Historic Oakview, Kingwood Forest, Levelle Moton, Lions, Lockwood, Moore Square, Oakwood Common, Poole Road
Pickleball Court - Indoor	John Chavis Memorial Park, Lions, Tarboro Road
Tennis Courts	Biltmore Hills, Lions, Roberts, Sanderford Road, Tarboro Road, Worthdale
Volleyball - Indoor	Barwell Road, John Chavis Memorial Park, Lions, Marsh Creek, Roberts, Tarboro Road
Carousel	John Chavis Memorial Park
Dog Park	Oakwood
Fitness Station/Equipment - Outdoor	John Chavis Memorial Park, Kingwood Forest
Rock Climbing/Bouldering	Lockwood
Ampitheatre	Anderson Point, John Chavis Memorial Park
Park Bench	Anderson Point, Apollo Heights, Biltmore Hills, Bragg Street, Carver, John Chavis Memorial Park, Dacian, Davie Street, Fisher Street, Hill Street, Historic Oakview, John Winters, Junious N. Sorrell, Kingwood Forest, Levelle Moton, Lions, Lockwood,
Picnic Table	Anderson Point, Apollo Heights, Biltmore Hills, Bragg Street, John Chavis Memorial Park, Culpepper Circle, Dacian, Davie Street, Fisher Street, Hill Street, Historic Oakview, Kingwood Forest, Levelle Moton, Lions, Lockwood, Longview, Marsh Creek, Martin L King Jr Memorial, Meadowbrook, Moore Square, Oakwood, Oakwood Common, Quarry Street, Roberts, Sanderford Road,
Picnic Shelter	Anderson Point, Apollo Heights, Biltmore Hills, John Chavis Memorial Park, Davie Street, Hill Street, Historic Oakview, Kingwood Forest, Lions, Marsh Creek, Martin L King Jr Memorial, Moore Square, Oakwood, Roberts, Southgate, Tarboro Road,
Playgrounds: 2-5	Anderson Point, Apollo Heights, Biltmore Hills, John Chavis Memorial Park, Hill Street, Kingwood Forest, Levelle Moton, Lions, Marsh Creek, Roberts, Sanderford Road, Southgate, Worthdale
Playgrounds: 5-12	Anderson Point, Apollo Heights, Biltmore Hills, Bragg Street, John Chavis Memorial Park, Dacian, Fisher Street, Hill Street, Levelle Moton, Lions, Lockwood, , Marsh Creek, Oakwood Common, Quarry Street, Roberts, Sanderford Road, Southgate,
Playgrounds: Nature-Oriented	John Chavis Memorial Park
Track - Non-Competitive/Lined	John Chavis Memorial Park
Track - Competitive/Lined	John Chavis Memorial Park
Trails - Paved	Anderson Point, Apollo Heights, Biltmore Hills, John Chavis Memorial Park, City Cemetery, Dacian, Historic Oakview, John Winters, Lockwood, Milburnie, Poole Road Canoe Launch, Sanderford Road, Southgate, Walnut Creek Athletics Complex,
Trails - Natural Surface/Unpaved	Anderson Point, Hill Street, Historic Oakview, Lions, Milburnie, Walnut Creek Wetland Center
Trails - Loop	Anderson Point, Barwell Road, Historic Oakview, Moore Square, Walnut Creek Athletics Complex, Worthdale
Walking Path	Barwell Road, John Chavis Memorial Park, Culpepper Circle, Moore Square, New Bern Place
BMX Track	Lions
Inline Skating	Marsh Creek
Skate Park	Marsh Creek
Bleachers	John Chavis Memorial Park, Lions, Marsh Creek, Roberts

There are no greenway corridors or greenway trails within the Poole Rd. Property. Nearby is the Walnut Creek Greenway Trail and the Neuse River Greenway Trail. While there are no current plans for a proposed greenway trail within the property, consideration should be given to utilizing the Poole Rd. Property for overflow parking at the Poole Rd Canoe Launch that also provides parking for the Neuse River Greenway Trail.

Greenway Context Map

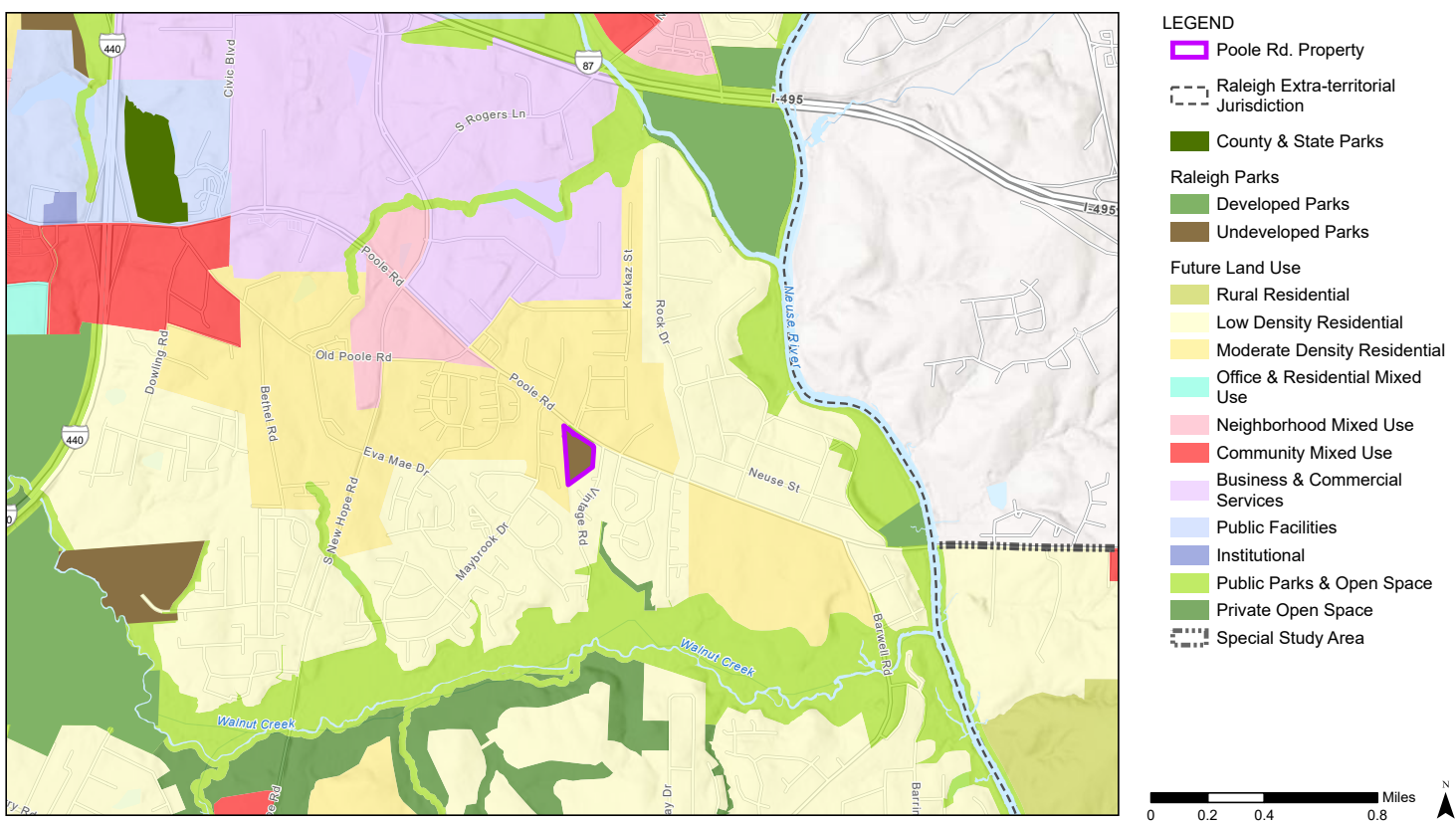


Current Zoning Map



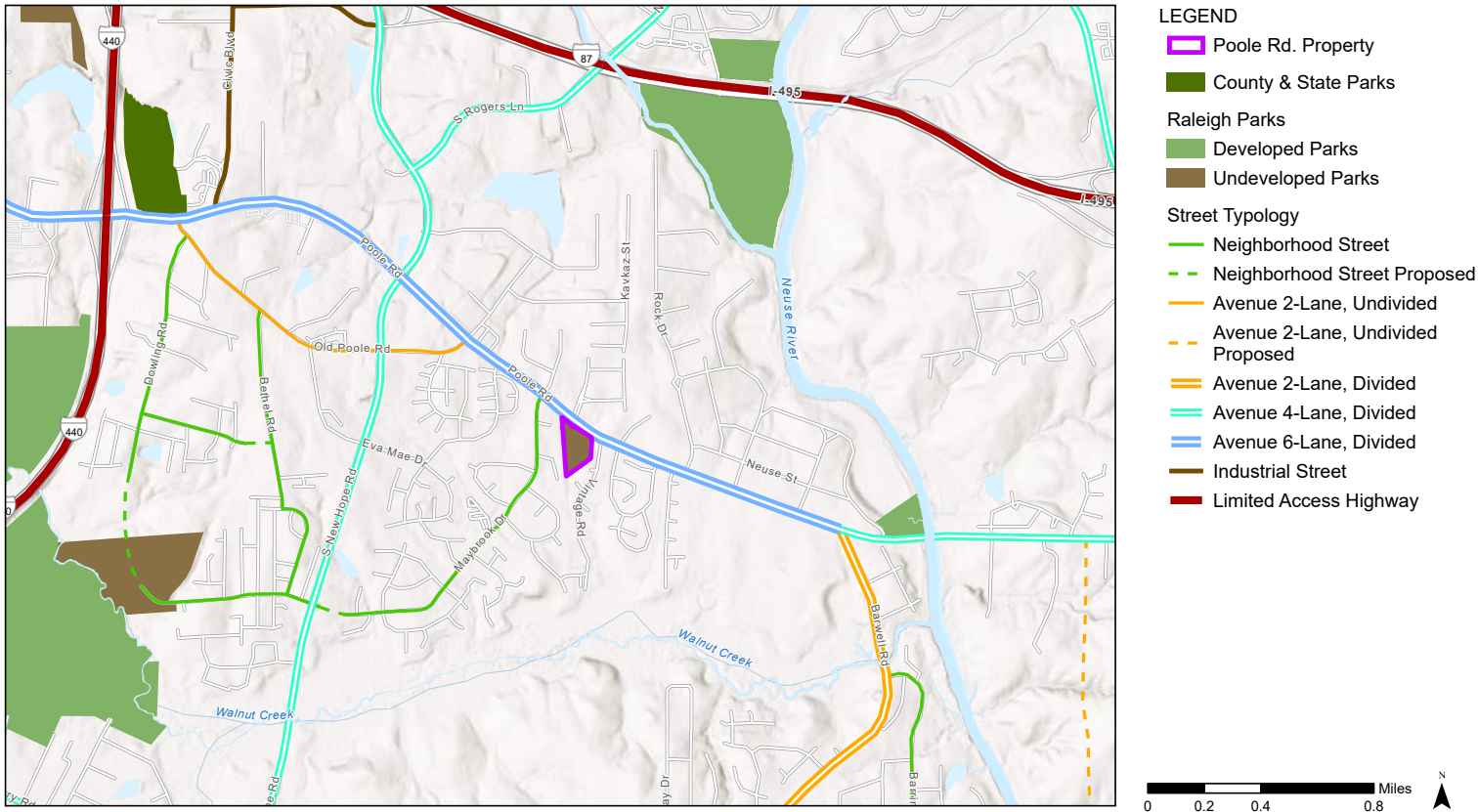
The current zoning surrounding the Poole Rd. Property is primarily residential with a mixture of densities, and there are several parcels zoned industrial to the north of the property. There are a parcels of manufactured housing, office mixed use, and commercial mixed use nearby as well.

Future Land Use Map



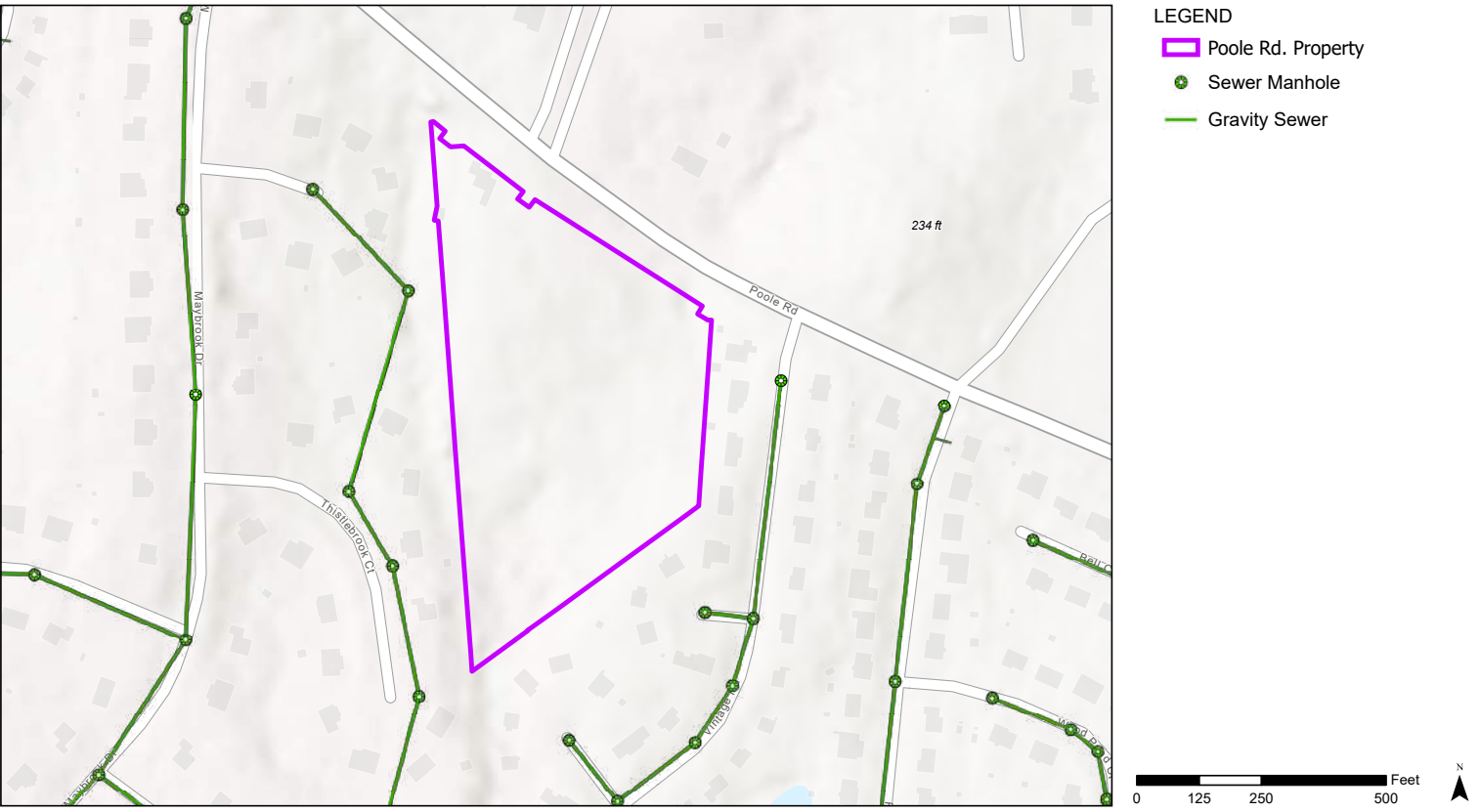
The future land use primarily reflects the current zoning. The future land use also additional public parks & open space located to the east and south of the Poole Rd. Property.

Street Typology Map



The street typology map does not include any proposed roads within or nearby the Poole Rd. Property. It should be noted that the City of Raleigh is currently in the process of widening Poole Rd. at the time of this Pre-Development Assessment Plan. More information can be found on page 19.

Utilities Map



There are currently no utilities on the Poole Rd. Property.

There is an entrance to the site from the north off of Poole Rd.
There is a clearing right off the road, but no officially designated parking on site.

The landscape at the Poole Rd. Property is mostly forested with a few fields in the north and includes a creek on the eastern portion of the site.

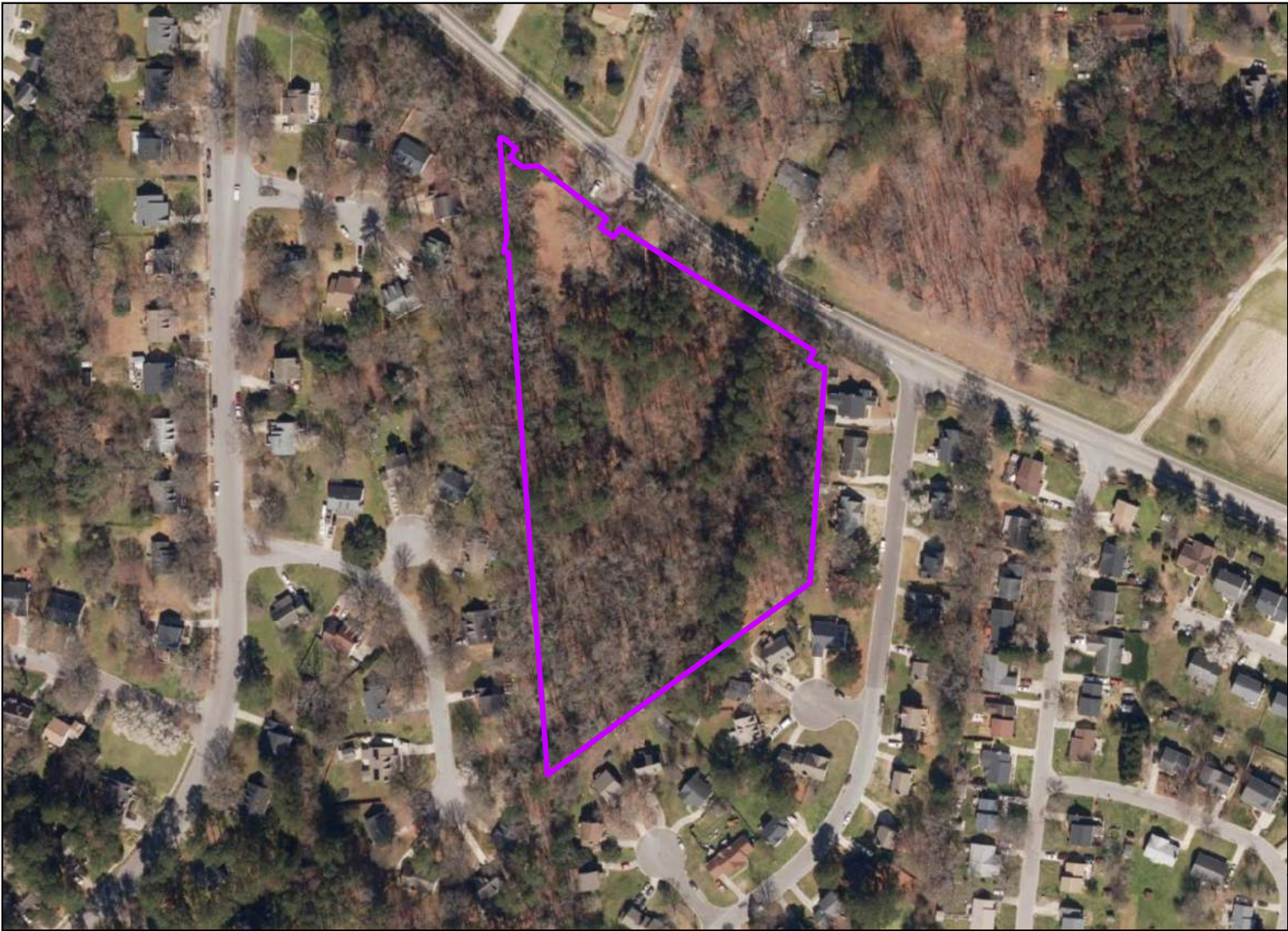
There are several opportunities on site including some tall mature trees, large boulders, and a field. Site images on page 17 highlight these aspects:

- Tall Mature Trees
- Creek
- Field
- Wooded Areas

There is also evidence of several site constraints including unsanctioned activities and invasive species that should be addressed in the interim management plan. Site images on page 18 show these constraints::

- Illegal dumping
- Invasive species

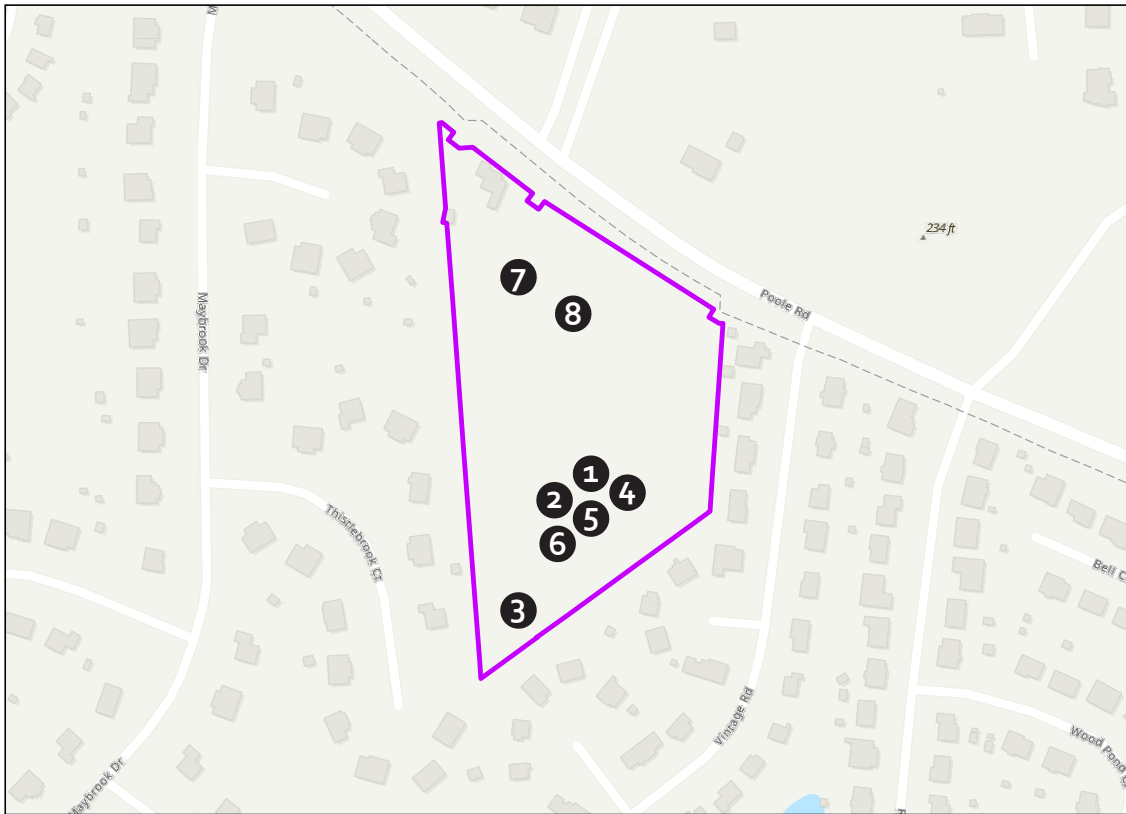
Existing Conditions



LEGEND
[Magenta line] Poole Rd. Property



Site Opportunities - Images Key



LEGEND
Poole Rd. Property



Large Trees



Large Beech Tree



Creek

Site Opportunities - Images



Boulders



Boulders



Boulders

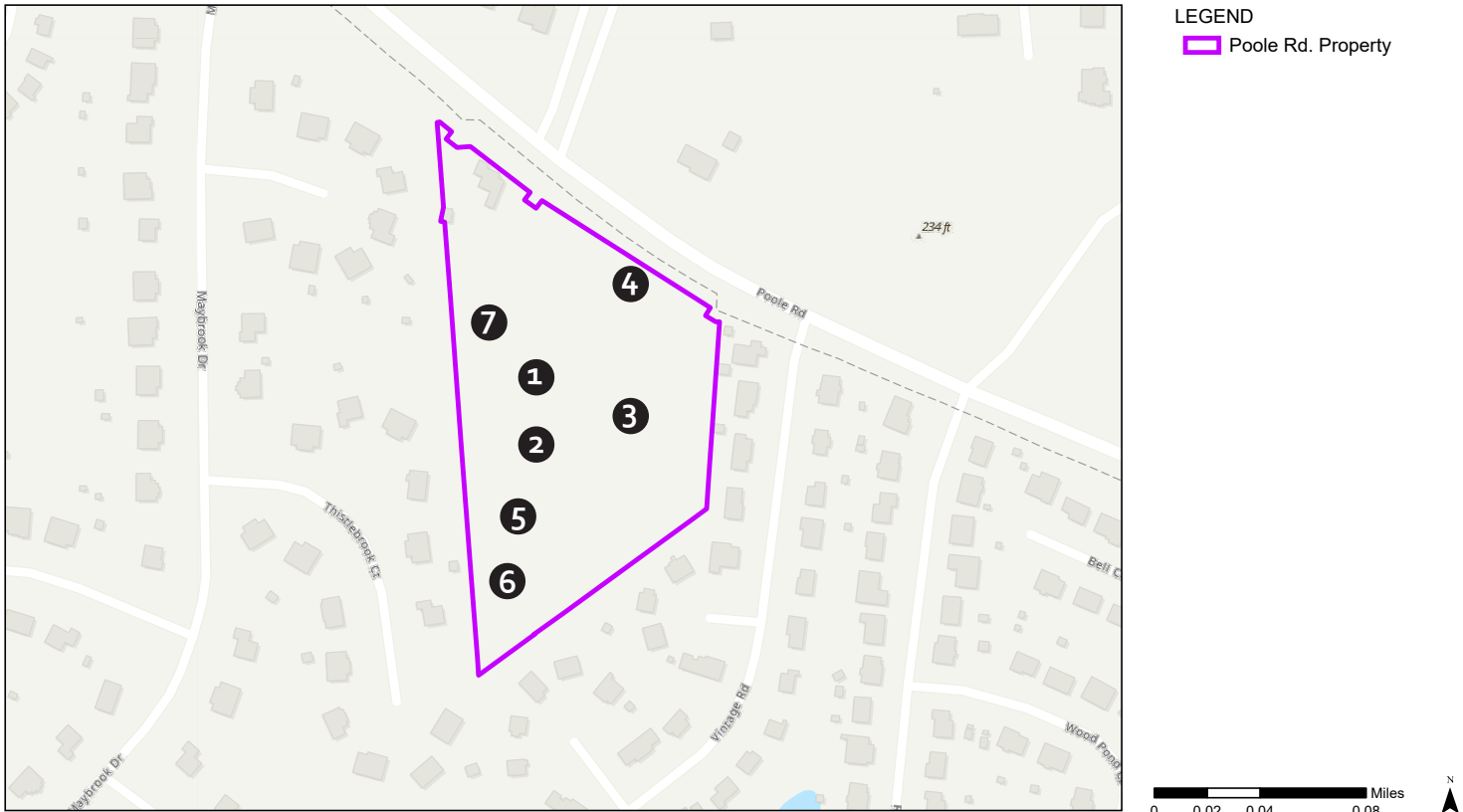


Field



Field

Site Constraints - Images Key



Site Constraints - Images



Illegal Dumping



Invasive Species



Invasive Species



Poole Rd. Widening



Illegal Dumping



Illegal Dumping



Illegal Dumping

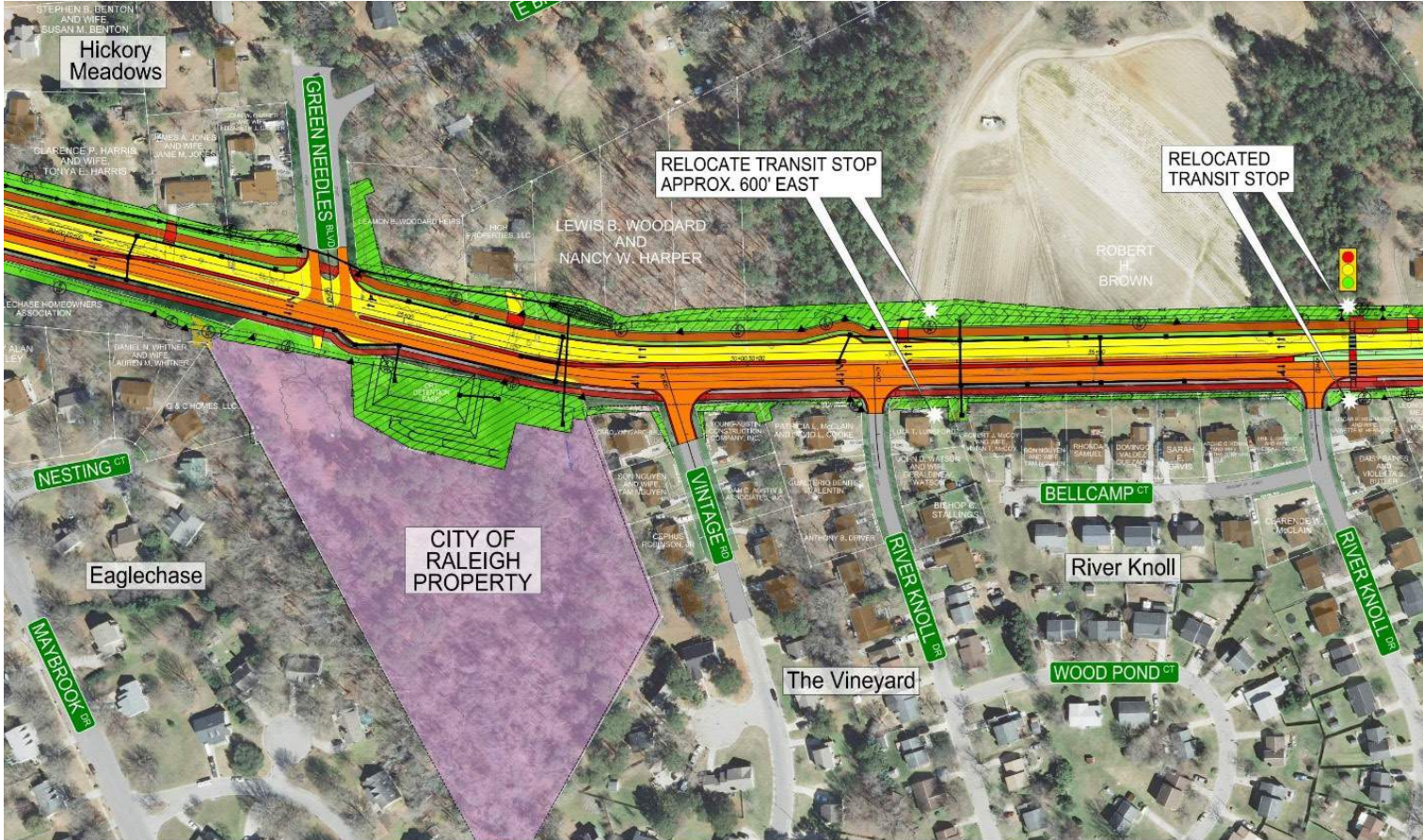
Poole Rd. Widening City of Raleigh Project

At the time this report is being produced (Fall 2021), the Poole Road Widening Project, a \$14.8 million project by the City of Raleigh, is currently in the construction phase.

Detailed project information is available online at <https://raleighnc.gov/home/content/PWksDesignConst/Articles/PooleRoadWideningProject.html>

The design includes a 10-foot wide multi-purpose path to be constructed along the northern side of Poole Road. This path will provide bike-pedestrian connectivity from this site east to the Poole Road Canoe Launch and trailhead parking lot for the Neuse River Trail.

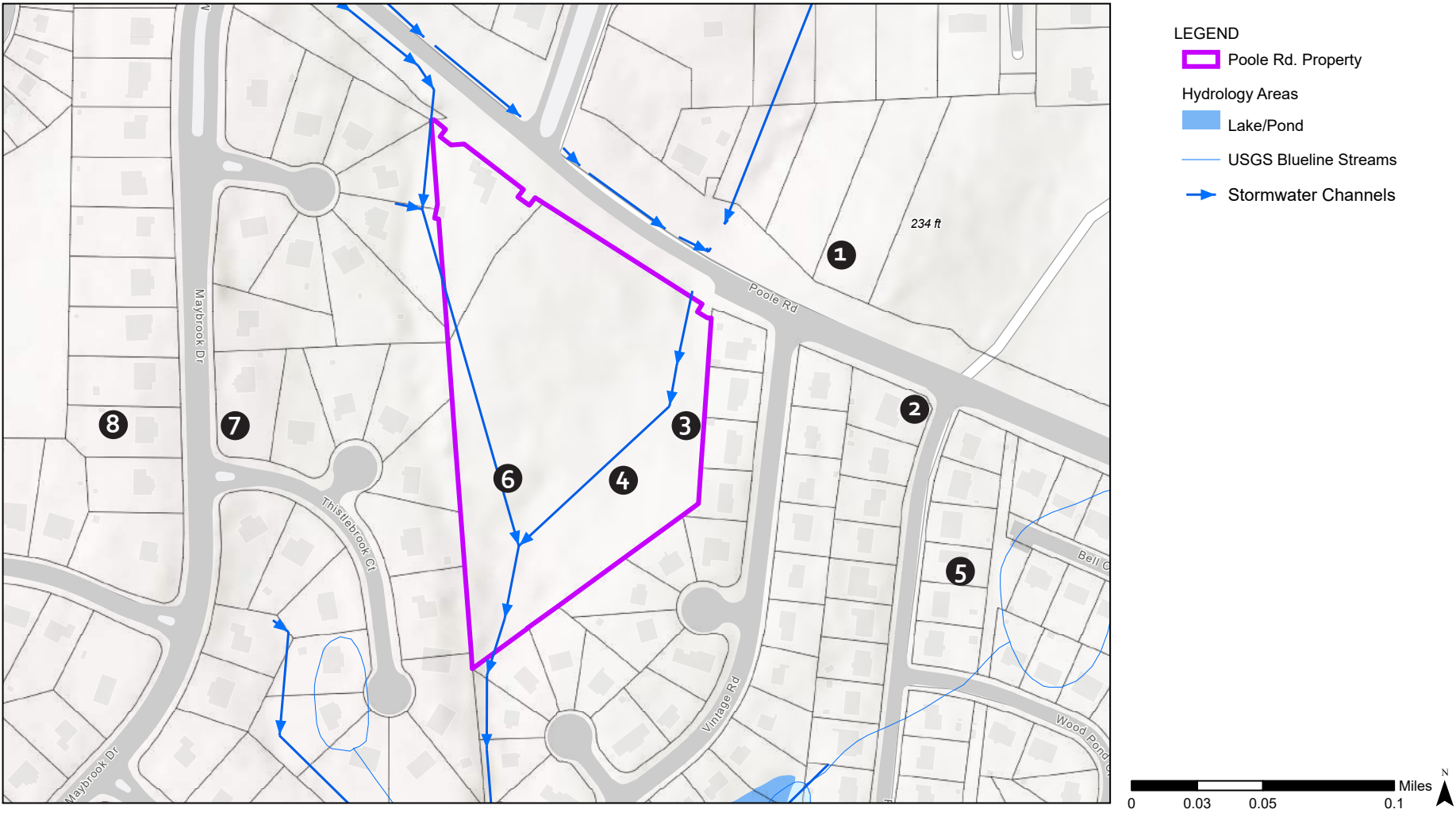
There will be a dry retention pond built onsite as part of the road construction project



Planned Stormwater Device

The Poole Rd. Tract contains few examples of natural hydrological elements and instead is subject to intermittent flow events driven primarily by precipitation and surface run-off. Two major stormwater channels enter the Tract along the northern property line adjacent to Poole Road and drain to the south before connecting near the southern property line and exiting the Tract. The area of the Tract located near the junction of the two major stormwater channels represent the lowest elevations within the property and can exhibit standing water and prolonged pooling during and after large precipitation events. These lower lying areas within the southern portion of the Tract contain a higher abundance of hydrophilic plants indicative of a wetland-like setting, however, no jurisdictional wetlands have been officially delineated on the Tract.

Hydrology Map

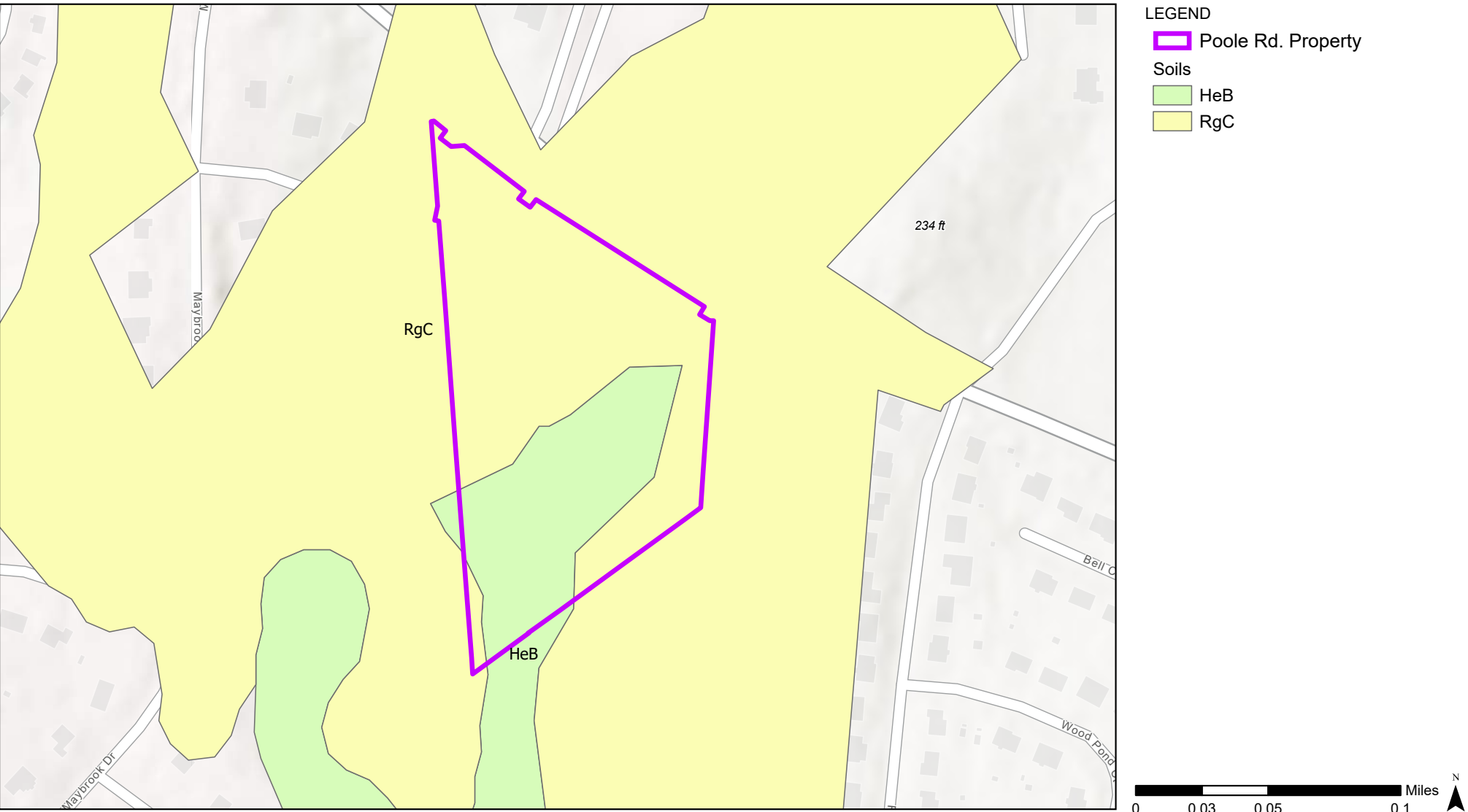


The most dominant soil type that occurs in the upland portions of the Leonard Tract is the well-drained Rawlings-Rion complex, which is characterized by sandy loam soil textures. These soils provide the best opportunity for future site and facility development given the rapid drainage capabilities and the relatively flat topography. As the Tract descends in elevation to the south, the Helena sandy loam soil type becomes most dominant and is classified as moderately well-drained. These soils contain a higher level of loam and other organic matter that tends to hold water for longer periods, and this moisture -retention combined with the sloping topography in these areas may create challenges for future development. A small pocket of partially-hydric soils, the Wedowee-Saw complex soil type, is mapped within the northwestern tip of the Tract but may be a mapping error, or may be associated with the large stormwater channel that enters the Tract at this point after passing beneath Poole Road.

Table of Soils Found Within or Adjacent to Pearl Creek Property Boundaries			
Soil Abbreviation*	Soil Type Name	Drainage Class	Hydric Rating
He	Helena sandy loam	Moderately well-drained	Non-hydric
Rg	Rawlings-Rion complex	Well-drained	Non-hydric

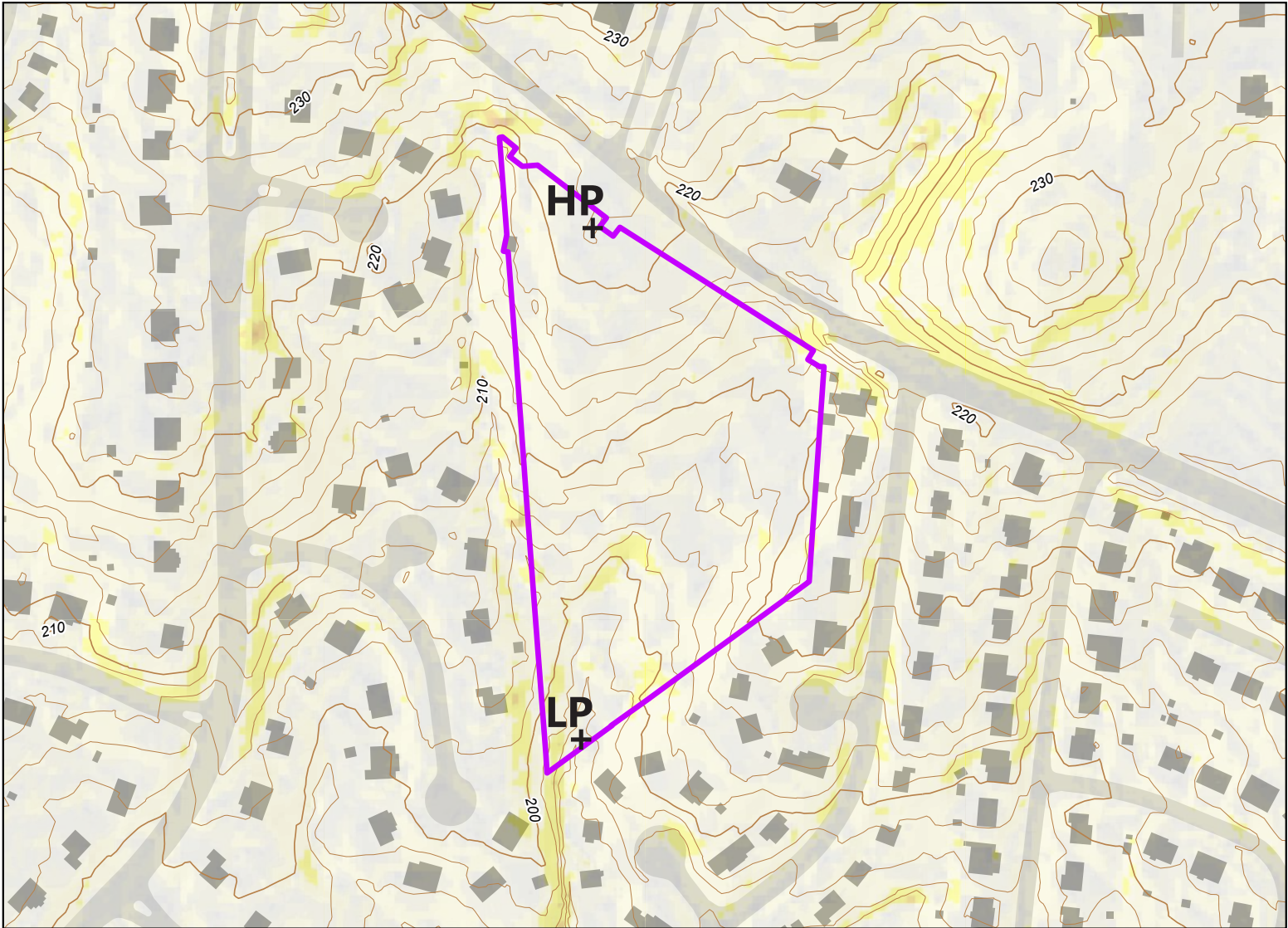
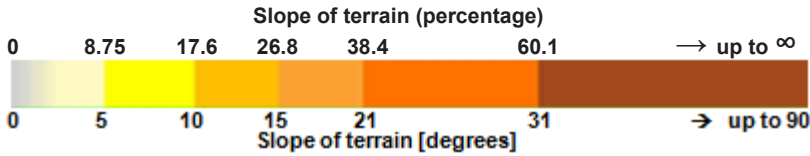
*Percent-slope indicated by A, B, and C ratings in increasing order. Soils that have been heavily eroded are denoted with “2” after the soil type abbreviation.

Soils Map



The terrain slopes from the northwest part of the Poole Rd. Property towards the south of the property along the creeks. The high point (HP) is noted on northwest area of the property and the low point (LP) is found in the southern area. Some strongly sloping areas (8.75-17.6%) are found near the creek banks within the site, but the majority of site is classified as nearly level to gently sloping (0-8.75%).

Slope & Topography Map



LEGEND

Poole Rd. Property

2' Contours

- Intermediate
- Index

Terrain: Slope Map

- Flat (0°)
- Nearly level (1°)
- Gently level (2°)
- Gently sloping (3° - 5°)
- Strongly sloping (6° - 10°)
- Gently steep (11° - 15°)
- Moderately Steep (16° - 20°)
- Steep (21° - 30°)
- Very steep (31° - 90°)



NATURAL RESOURCE INVENTORY

The Poole Rd. Tract encompasses roughly 5.6 acres of gradually sloping topography, mixed pine/hardwood forests, and several natural communities/habitat types.

List of wildlife species observed at the Poole Rd. Tract

This list is not meant to be exhaustive and represents observations made during multiple site visits by Raleigh PRCR staff. More wildlife species will likely be found within the Poole Rd. Tract after additional ecological monitoring and biological sampling.

Common Name	Scientific Name	Native (Y/N)	Special Status*
Bird species			
American robin	<i>Turdus migratorius</i>	Y	----
Carolina chickadee	<i>Parus carolinensis</i>	Y	----
Carolina wren	<i>Thryothorus ludovicianus</i>	Y	----
common grackle	<i>Quiscalus quiscula</i>	Y	----
eastern towhee	<i>Pipilo erythrophthalmus</i>	Y	----
fox sparrow	<i>Passerella iliaca</i>	Y	----
hairy woodpecker	<i>Leuconotopicus villosus</i>	Y	----
northern cardinal	<i>Cardinalis cardinalis</i>	Y	----
white-eyed vireo	<i>Vireo griseus</i>	Y	Critically Imperiled (NC)
Mammal species			
eastern gray squirrel	<i>Sciurus carolinensis</i>	Y	----
white-tailed deer	<i>Odocoileus virginianus</i>	Y	----
Amphibian species			
American toad	<i>Anaxyrus americanus</i>	Y	----
northern cricket frog	<i>Acris crepitans</i>	Y	----
Insect Species			
ebony jewelwing damselfly	<i>Calopteryx maculata</i>	Y	----

* Some wildlife species were unable to be identified to species, therefore it may be possible that other wildlife species associated with a special conservation status exist onsite.

List of plant species observed at the Poole Rd. Tract

This list is not meant to be exhaustive and represents observations made during multiple site visits by Raleigh PRCR staff. More wildlife species will likely be found within the Poole Rd. Tract after additional ecological monitoring and biological sampling.

Common Name	Scientific Name	Native (Y/N)	Special Status*
Grass species			
bluestem grasses	<i>Andropogon</i> spp.	Y	----
crab grasses	<i>Digitaria</i> spp.	Y & N	----
giant cane	<i>Arundinaria gigantea</i>	Y	----
Japanese stiltgrass	<i>Microstegium vimineum</i>	N	----
panic grasses	<i>Panicum</i> spp.	Y	----
purpletop grass	<i>Tridens flavus</i>	Y	----
rosette panic grasses	<i>Dicanthelium</i> spp.	Y	----
rushes	<i>Juncus</i> spp.	Y	----*
sedges	<i>Carex</i> spp.	Y	----*
wood oats	<i>Chasmanthium</i> spp.	Y	----
Forb species			
asters	<i>Aster</i> spp.	Y	----*
bedstraws	<i>Galium</i> spp.	Y	----
black snakeroot	<i>Actaea racemosa</i>	Y	----
bonesets	<i>Eupatorium</i> spp.	Y	----*
Christmas fern	<i>Polystichum acrostichoides</i>	Y	----
common ragweed	<i>Ambrosia artemisiifolia</i>	Y	----

false nettle	<i>Boehmeria cylindrica</i>	Y	----
false Solomon’s seal	<i>Maianthemum racemosum</i>	Y	----
goldenrods	<i>Solidago</i> spp.	Y	----
heartleaf	<i>Hexastylis</i> sp.	Y	----
lizard’s tail	<i>Saururus cernuus</i>	Y	----
partridge berry	<i>Mitchella repens</i>	Y	----
peas - legumes	<i>Lespedeza</i> spp.	Y & N	----
peas - legumes	<i>Desmodium</i> spp.	Y	----
sensitive fern	<i>Onoclea sensibilis</i>	Y	----
skullcaps	<i>Scutellaria</i> spp.	Y	----*
smartweeds	<i>Polygonum</i> spp.	Y & N	----
Solomon’s seal	<i>Polygonatum biflorum</i>	Y	----
southern lady fern	<i>Athyrium asplenoides</i>	Y	----
spotted wintergreen	<i>Chimaphila maculata</i>	Y	----
sweet everlasting	<i>Pseudognaphalium obtusifolium</i>	Y	----
Virginia dayflower	<i>Commelina virginica</i>	Y	----
wingstem	<i>Verbesina alternifolia</i>	Y	----
Shrub/vine species			
English ivy	<i>Hedera helix</i>	N	----
greenbriers	<i>Smilax</i> spp.	Y	----
groundsel tree	<i>Baccharis halimifolia</i>	Y	----
Japanese honeysuckle	<i>Lonicera japonica</i>	N	----
leatherleaf mahonia	<i>Mahonia bealei</i>	N	----
multiflora rose	<i>Rosa multiflora</i>	N	----
privets	<i>Ligustrum</i> spp.	N	----
trumpet creeper	<i>Campsis radicans</i>	Y	----
wax myrtle	<i>Myrica cerifera</i>	Y	----
wild blueberries	<i>Vaccinium</i> spp.	Y	----

wild grapes	<i>Vitis</i> spp.	Y	----
wild olives	<i>Elaeagnus</i> spp.	N	----
wisteria	<i>wisteria</i> sp.	N	----
Tree species			
American beech	<i>Fagus grandifolia</i>	Y	----
American sycamore	<i>Platanus occidentalis</i>	Y	----
black walnut	<i>Juglans nigra</i>	Y	----
Callery pear	<i>Pyrus calleryana</i>	N	----
eastern hophornbeam	<i>Ostrya virginiana</i>	Y	----
eastern hornbeam	<i>Carpinus caroliniana</i>	Y	----
eastern red cedar	<i>Juniperus virginiana</i>	Y	----
green ash	<i>Fraxinus pennsylvanica</i>	Y	----
loblolly pine	<i>Pinus taeda</i>	Y	----
mockernut hickory	<i>Carya tomentosa</i>	Y	----
northern red oak	<i>Quercus rubra</i>	Y	----
pignut hickory	<i>Carya glabra</i>	Y	----
post oak	<i>Quercus stellata</i>	Y	----
red maple	<i>Acer rubrum</i>	Y	----
red mulberry	<u><i>Morus rubra</i></u>	Y	----
river birch	<i>Betula nigra</i>	Y	----
shortleaf pine	<i>Pinus echinata</i>	Y	----
sourwood	<i>Oxydendrum arboretum</i>	Y	----
southern hackberry	<i>Celtis laevigata</i>	Y	----
southern magnolia	<i>Magnolia grandiflora</i>	Y	----
southern red oak	<i>Quercus falcata</i>	Y	----
sugar maple	<i>Acer saccharum</i>	Y	----
sweetgum	<i>Liquidambar styraciflua</i>	Y	----
water oak	<i>Quercus nigra</i>	Y	----

white oak	<i>Quercus alba</i>	Y	----
winged elm	<i>Ulmus alata</i>	Y	----
yellow poplar	<i>Liriodendron tulipifera</i>	Y	----

* Some plant species were unable to be identified to species, therefore it may be possible that other plant species associated with a special conservation status exist onsite.

NC Natural Heritage Program



Roy Cooper, Governor
D. Reid Wilson, Secretary
Walter Clark
Director, Division of Land and Water Stewardship

NCNHDE-14736

May 20, 2021

Emma Liles
City of Raleigh
222 W Hargett St
Raleigh, NC 27602
RE: Poole Rd. Property

Dear Emma Liles:

The North Carolina Natural Heritage Program (NCNHP) appreciates the opportunity to provide information about natural heritage resources for the project referenced above.

A query of the NCNHP database indicates that there are records for rare species, important natural communities, natural areas, and/or conservation/managed areas within the proposed project boundary. These results are presented in the attached 'Documented Occurrences' tables and map.

The attached 'Potential Occurrences' table summarizes rare species and natural communities that have been documented within a one-mile radius of the property boundary. The proximity of these records suggests that these natural heritage elements may potentially be present in the project area if suitable habitat exists. Tables of natural areas and conservation/managed areas within a one-mile radius of the project area, if any, are also included in this report.

If a Federally-listed species is documented within the project area or indicated within a one-mile radius of the project area, the NCNHP recommends contacting the US Fish and Wildlife Service (USFWS) for guidance. Contact information for USFWS offices in North Carolina is found here: <https://www.fws.gov/offices/Directory/ListOffices.cfm?statecode=37>.

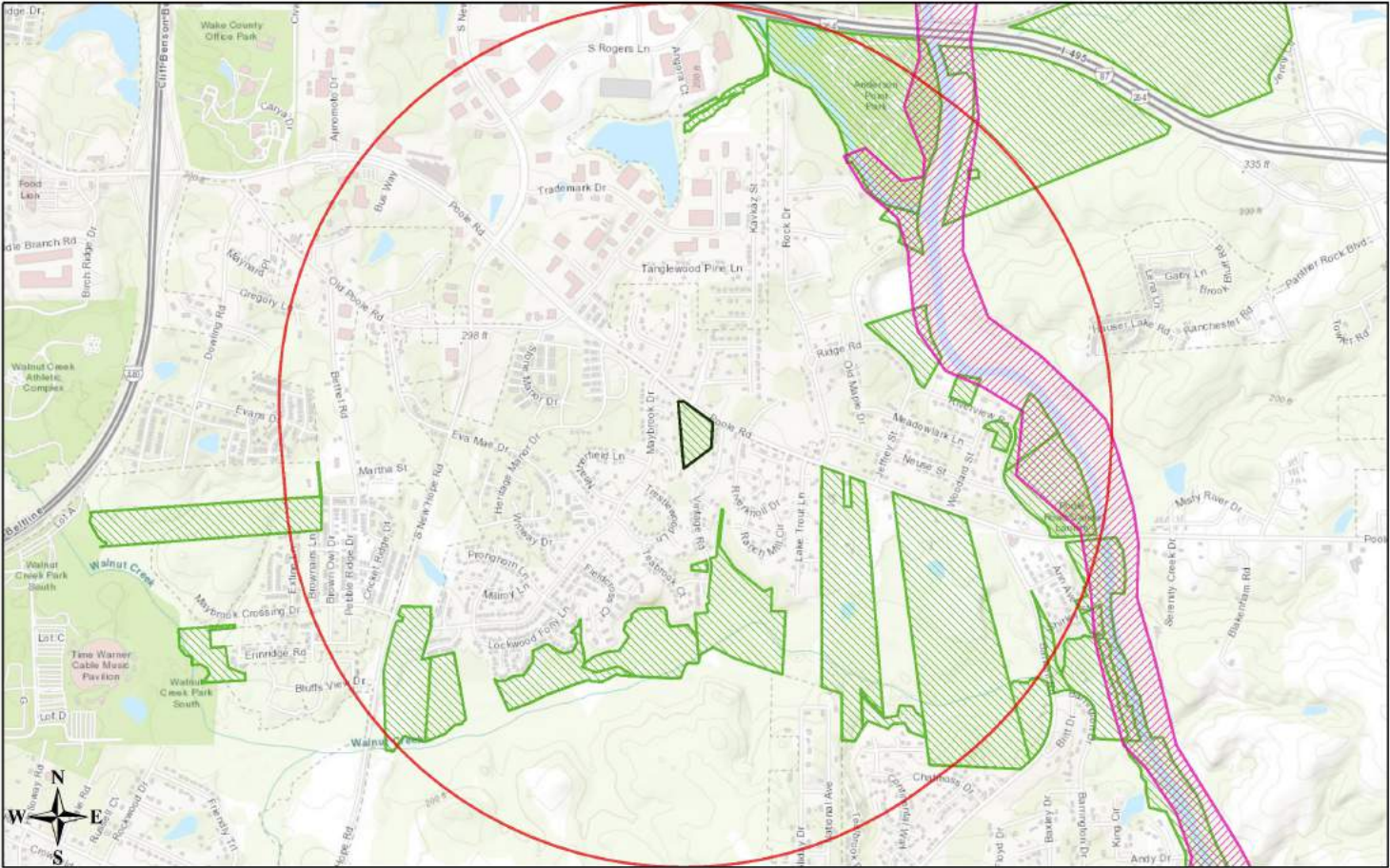
Please note that natural heritage element data are maintained for the purposes of conservation planning, project review, and scientific research, and are not intended for use as the primary criteria for regulatory decisions. Information provided by the NCNHP database may not be published without prior written notification to the NCNHP, and the NCNHP must be credited as an information source in these publications. Maps of NCNHP data may not be redistributed without permission.

Also please note that the NC Natural Heritage Program may follow this letter with additional correspondence if a Dedicated Nature Preserve, Registered Heritage Area, Land and Water Fund easement, or an occurrence of a Federally-listed species is documented near the project area.

If you have questions regarding the information provided in this letter or need additional assistance, please contact Rodney A. Butler at rodney.butler@ncdcr.gov or 919-707-8603.

Sincerely,
NC Natural Heritage Program

NCNHDE-14736: Poole Rd. Property



May 20, 2021

- Project Boundary
- Buffered Project Boundary
- NHP Natural Area (NHNA)
- Managed Area (MAREA)

1:21,978
0 0.175 0.35 0.7 mi
0 0.3 0.6 1.2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Intersecting the Project Area
Poole Rd. Property
May 20, 2021
NCNHDE-14736

No Element Occurrences are Documented within the Project Area

There are no documented element occurrences (of medium to very high accuracy) that intersect with the project area. Please note, however, that although the NCNHP database does not show records for rare species within the project area, it does not necessarily mean that they are not present; it may simply mean that the area has not been surveyed. The use of Natural Heritage Program data should not be substituted for actual field surveys if needed, particularly if the project area contains suitable habitat for rare species. If rare species are found, the NCNHP would appreciate receiving this information so that we may update our database.

No Natural Areas are Documented within the Project Area

Managed Areas Documented Within Project Area*

Managed Area Name	Owner	Owner Type
City of Raleigh Open Space - Planned Neighborhood Park NPS33	City of Raleigh	Local Government

*NOTE: If the proposed project intersects with a conservation/managed area, please contact the landowner directly for additional information. If the project intersects with a Dedicated Nature Preserve (DNP), Registered Natural Heritage Area (RHA), or Federally-listed species, NCNHP staff may provide additional correspondence regarding the project.

Definitions and an explanation of status designations and codes can be found at <https://ncnhde.natureserve.org/help>, Data query generated on May 20, 2021; source: NCNHP, Q1 April 2021. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Within a One-mile Radius of the Project Area
Poole Rd. Property
May 20, 2021
NCNHDE-14736

Element Occurrences Documented Within a One-mile Radius of the Project Area

Taxonomic Group	EO ID	Scientific Name	Common Name	Last Observation Date	Element Occurrence Rank	Accuracy	Federal Status	State Status	Global Rank	State Rank
Amphibian	8259	Necturus lewisi	Neuse River Waterdog	1987-01-13	H	3-Medium	Proposed Threatened	Special Concern	G2	S2
Crustacean	29723	Orconectes carolinensis	North Carolina Spiny Crayfish	2019-03-11	E	3-Medium	---	Special Concern	G3	S3
Dragonfly or Damselfly	32043	Coryphaeschna ingens	Regal Darner	2004-Pre	H?	5-Very Low	---	Significantly Rare	G5	S2?
Freshwater Bivalve	7699	Alasmidonta heterodon	Dwarf Wedgemussel	1951	H	3-Medium	Endangered	Endangered	G1G2	S1
Freshwater Bivalve	25712	Alasmidonta undulata	Triangle Floater	2018-06-29	E	3-Medium	---	Threatened	G4	S3
Freshwater Bivalve	7828	Elliptio roanokensis	Roanoke Slabshell	2020-08-25	E	3-Medium	---	Special Concern	G3	S3
Freshwater Bivalve	11071	Fusconaia masoni	Atlantic Pigtoe	1951	H	3-Medium	Proposed Threatened	Endangered	G1	S3
Freshwater Bivalve	19137	Lampsilis radiata	Eastern Lampmussel	2018-06-29	E	3-Medium	---	Threatened	G5	S3
Freshwater Bivalve	28706	Lasmigona subviridis	Green Floater	2018-05-11	E	3-Medium	---	Endangered	G3	S2
Freshwater Bivalve	15066	Villosa constricta	Notched Rainbow	1951	H	3-Medium	---	Threatened	G3	S3
Freshwater Fish	10676	Noturus furiosus	Carolina Madtom	1902-08-18	H	3-Medium	Proposed Endangered	Threatened	G2	S2
Natural Community	29776	Piedmont Bottomland Forest (Typic Low Subtype)	---	2002-05-29	BC	3-Medium	---	---	G2?	S2
Natural Community	29775	Piedmont Levee Forest (Typic Subtype)	---	2002-05-29	BC	3-Medium	---	---	G3G4	S3S4
Vascular Plant	39143	Scutellaria nervosa	Veined Skullcap	2020-03-17	BC	2-High	---	Endangered	G5	S1

Natural Areas Documented Within a One-mile Radius of the Project Area

Site Name	Representational Rating	Collective Rating
Neuse River (Clayton) Forests	R2 (Very High)	C4 (Moderate)

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
NC Land and Water Fund Project	NC DNCR, NC Land and Water Fund	State
City of Raleigh Open Space	City of Raleigh	Local Government
City of Raleigh Open Space - Planned Neighborhood Park NPS33	City of Raleigh	Local Government
City of Raleigh Greenway - Lower Walnut Creek Greenway	City of Raleigh	Local Government
City of Raleigh Greenway - Neuse River Greenway	City of Raleigh	Local Government
City of Raleigh Open Space - Anderson Point Park	City of Raleigh	Local Government
City of Raleigh Easement	City of Raleigh	Local Government
Triangle Greenways Council Preserve - Walnut Creek Trail	Triangle Greenways Council	Private
Triangle Greenways Council Preserve - Walnut Creek Trail	Triangle Greenways Council	Private
City of Raleigh Open Space	City of Raleigh	Local Government
City of Raleigh Greenway	City of Raleigh	Local Government
City of Raleigh Greenway	City of Raleigh	Local Government
City of Raleigh Greenway - Neuse River Greenway	City of Raleigh	Local Government
City of Raleigh Greenway - Neuse River Greenway	City of Raleigh	Local Government
City of Raleigh Greenway - Neuse River Greenway	City of Raleigh	Local Government
City of Raleigh Greenway - Neuse River Greenway	City of Raleigh	Local Government
City of Raleigh Open Space - Poole Road Canoe Access Area	City of Raleigh	Local Government
NC Department of Transportation Mitigation Site	NC Department of Transportation	State

Previous Land Use Maps

Based on available historic aerial photographs, it appears that most of the Poole Rd. Tract has been maintained in a forested condition for at least the prior 60+ years. Most of the upland portions of the Tract are dominated by mature pines and semi-mature hardwood trees, suggesting that these areas were likely cleared at some point within the past 80 to 100 years and have regenerated naturally over time. The upland sites were historically used for agriculture and/or pastureland due to more desirable soils, drainage, and vegetation. It is possible that these activities have occurred on the Tract in the past, but the available evidence is not conclusive. This is contrasted by the mature hardwood trees that dominate the lower-lying elevations and are estimated to be roughly 150 to 200 years old, suggesting that these areas did not experience the same level of land use that may have occurred in the upland sites. The most significant element that remains from past land use are the two large stormwater channels that were established and/or developed naturally as the construction of Poole Road and surrounding residential areas dictated the need for more rapid drainage of surface water.



1971



1981



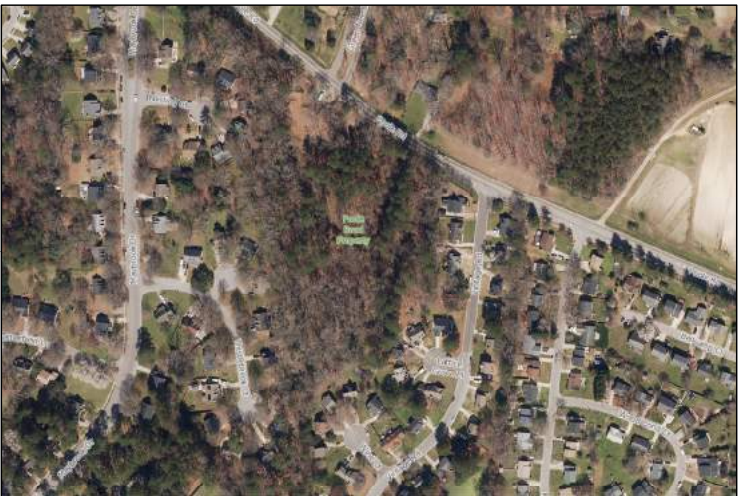
1988



1999



2010



2020

State Historic Preservation Office

The NC State Historic Preservation Office (SHPO) was consulted during the pre-development site assessment to ensure no significant cultural or archaeological sites have been identified onsite, and the SHPO response is included below. The SHPO recommendations related to land-disturbing activities should be considered during any development planning processes.

SHPO response:
“There are no previously recorded archaeological sites located at the property submitted. However, portions of the property do contain areas of high potential for archaeological resources. For any ground disturbing activities planned in the project area in the future, please submit a description of the project to this office for review and comment. We may recommend that an archaeological survey be conducted by an experienced archaeologist prior to construction. We have determined that the project as proposed will not have an effect on any historic structures.”



North Carolina Department of Natural and Cultural Resources
State Historic Preservation Office
Ramona M. Bartos, Administrator

Governor Roy Cooper

Secretary D. Reid Wilson

June 18, 2021

Emma Liles
City of Raleigh
222 West Hargett Street
Raleigh, NC 27601

Emma.Liles@raleighnc.gov

Re: 5326 Poole Road, Raleigh, Wake County, ER 21-1354

Dear Ms. Liles:

Thank you for your submission concerning the above-referenced project. We have reviewed the materials provided and offer the following comments.

There are no previously recorded archaeological sites located at the property submitted. However, portions of the property do contain areas of high potential for archaeological resources. For any ground disturbing activities are planned in the project area in the future, please submit a description of the project to this office for review and comment. We may recommend that an archaeological survey be conducted by an experienced archaeologist prior to construction.

We have determined that the project as proposed will not have an effect on any historic structures.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation’s Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above referenced tracking number.





Sincerely,

for Ramona Bartos, Deputy
State Historic Preservation Officer

Park Access, Social Equity, & Demographic Analysis

Park Access Analysis

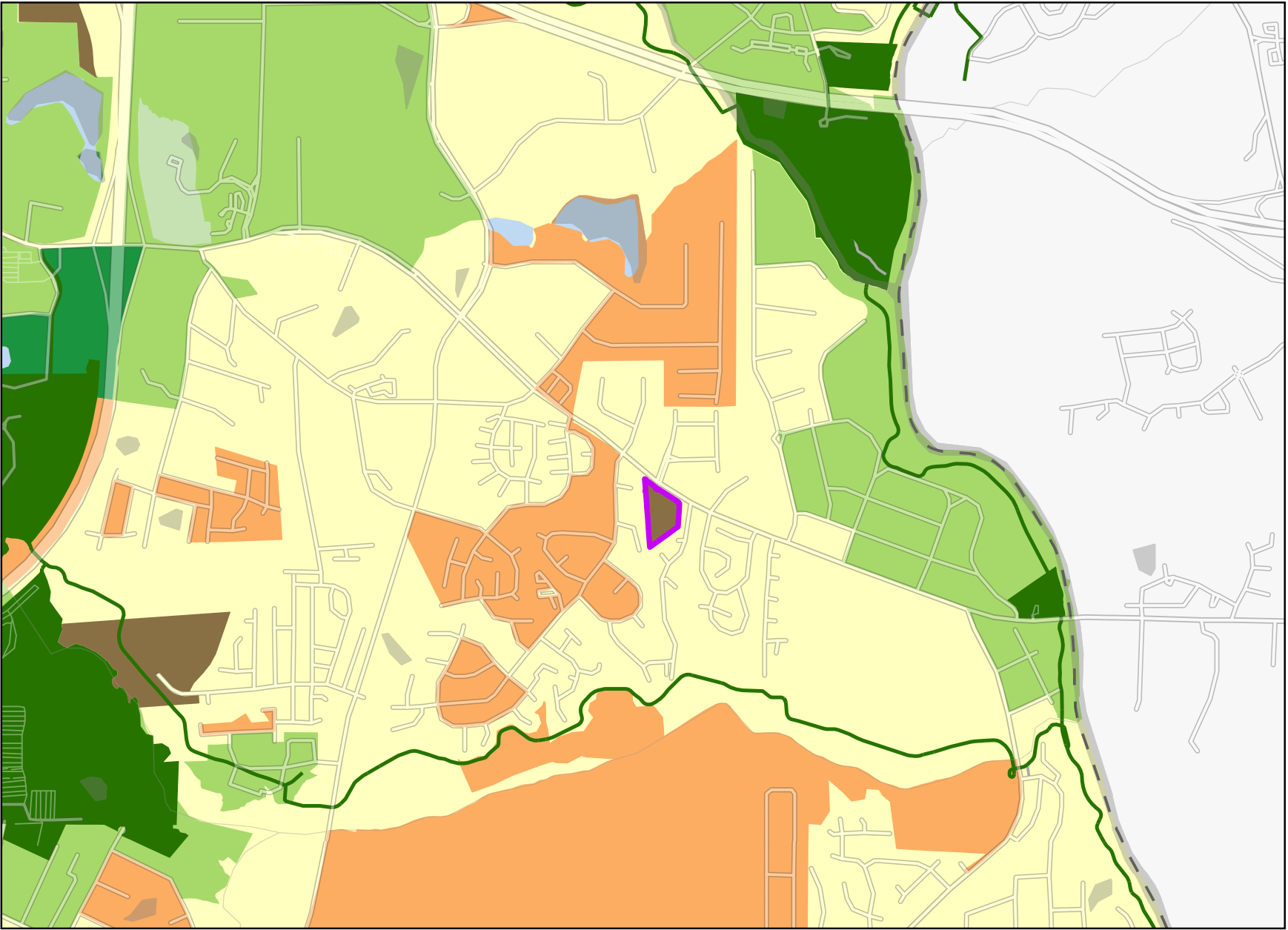
Park Access is a measure of how well different areas of the city are currently served by Raleigh’s system of parks and greenway trails. Each census block in the city is assigned a Park Access grade based on four factors:

-  **1. Distance to Nearest Park:** How far residents need to travel to reach the nearest public park;
-  **2. Distance to Nearest Greenway Trail:** How far residents need to travel to reach the nearest greenway trail;
-  **3. Acres of Open Space:** How many acres of park land are accessible nearby;
-  **4. Park Experiences:** The number and variety of park experiences available nearby;












Communities with an “A” letter grade have very good park access relative to other areas of the city. These neighborhoods are likely located within a 10-minute walk of a park, have access to many acres of open space, and can enjoy a wide variety of park experiences within a short distance of home.

Communities with a “D” or “F” letter grade have poor access to parks relative to other areas of the city. Residents in these areas may have to travel several miles to reach the nearest public park, and may only have access to a limited variety of park experiences.

Prioritizing investments in communities with low Park Access scores helps to promote Raleigh’s goal of providing every citizen with safe, convenient access to a park or greenway trail.








LEGEND

-  Poole Rd. Property
-  Raleigh Extraterritorial Jurisdiction
- Raleigh Parks**
 -  Developed Parks
 -  Undeveloped Parks
- Raleigh Greenways**
 -  Greenway Trails
 -  Other Trails
- Level of Service**
 -  A
 -  B
 -  C
 -  D
 -  F



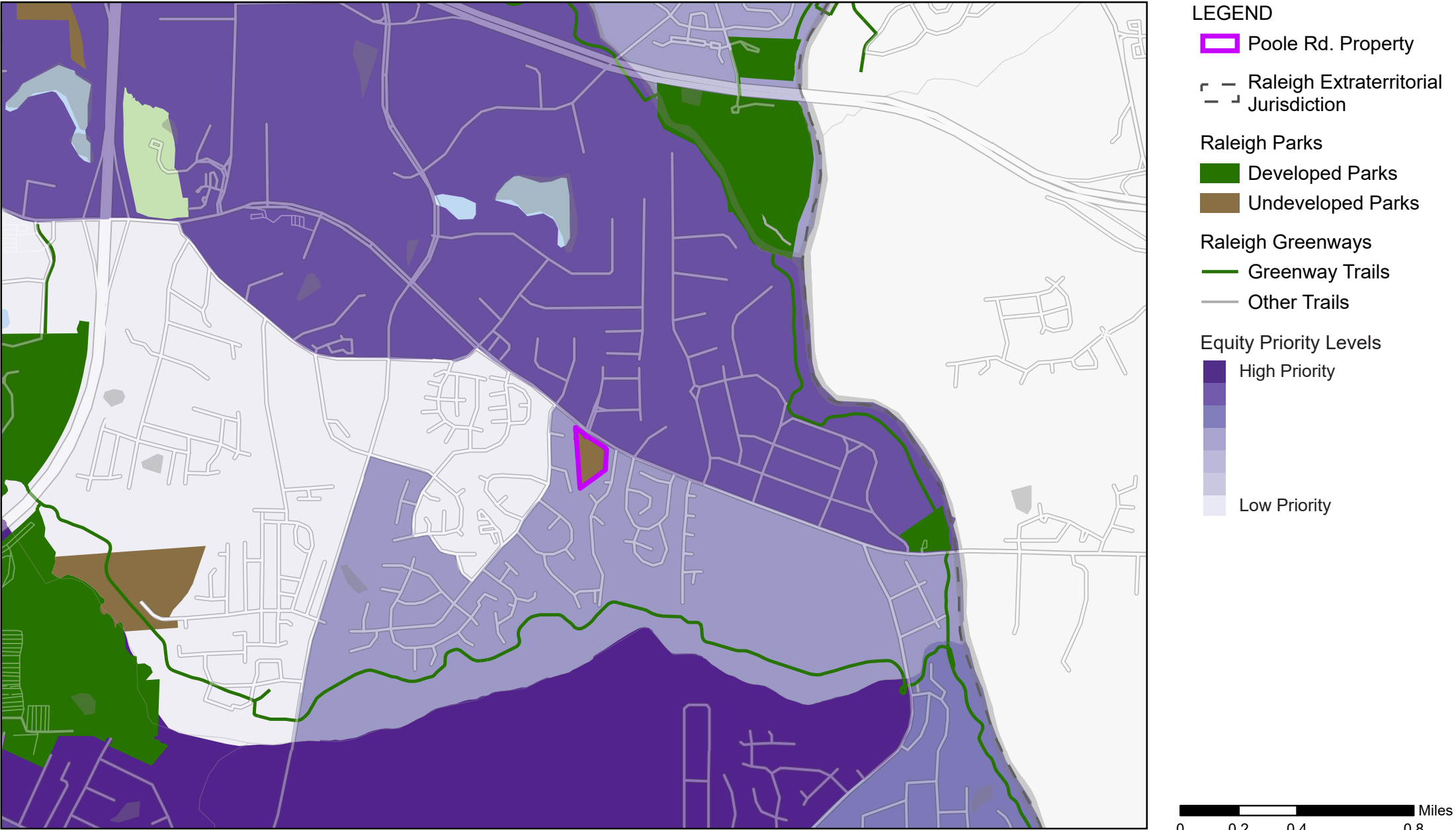
Equity Priority Analysis

Equity Priority can be determined by analyzing five key indicators of community health and well-being, as defined by Wake County Human Services’ *Community Vulnerability Index*:

-  **1. Unemployment:** Population age 16 and over who are unemployed in the civilian labor force;
-  **2. Low Educational Attainment:** Population over age 25 who have less than a high school diploma;
-  **3. Age Dependency:** Population under the age of 18 and over the age of 64 combined;
-  **4. Housing Vacancy:** The total number of vacant or unoccupied housing units in a block group;
-  **5. Poverty Rate:** The population living below the federal poverty threshold in Wake County;

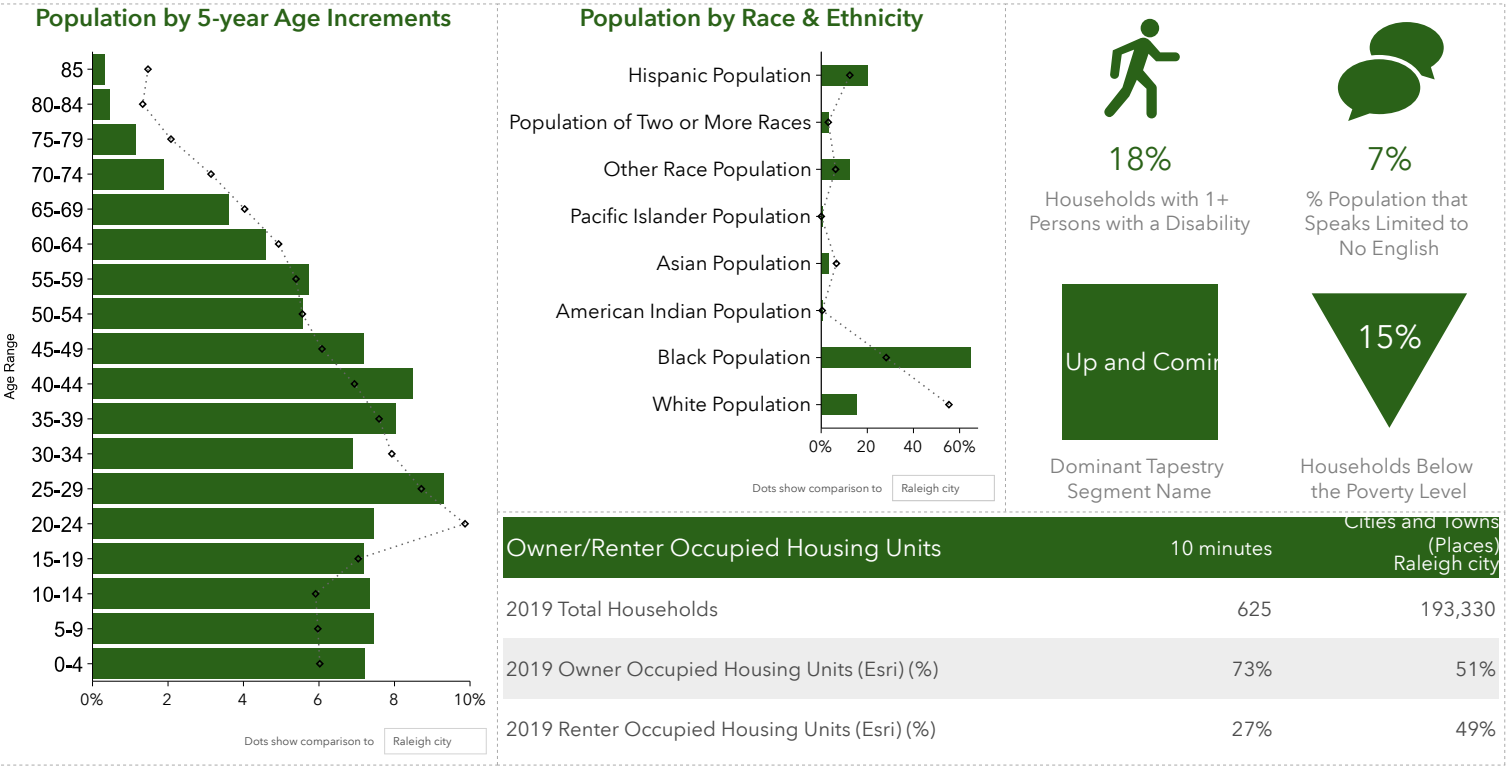
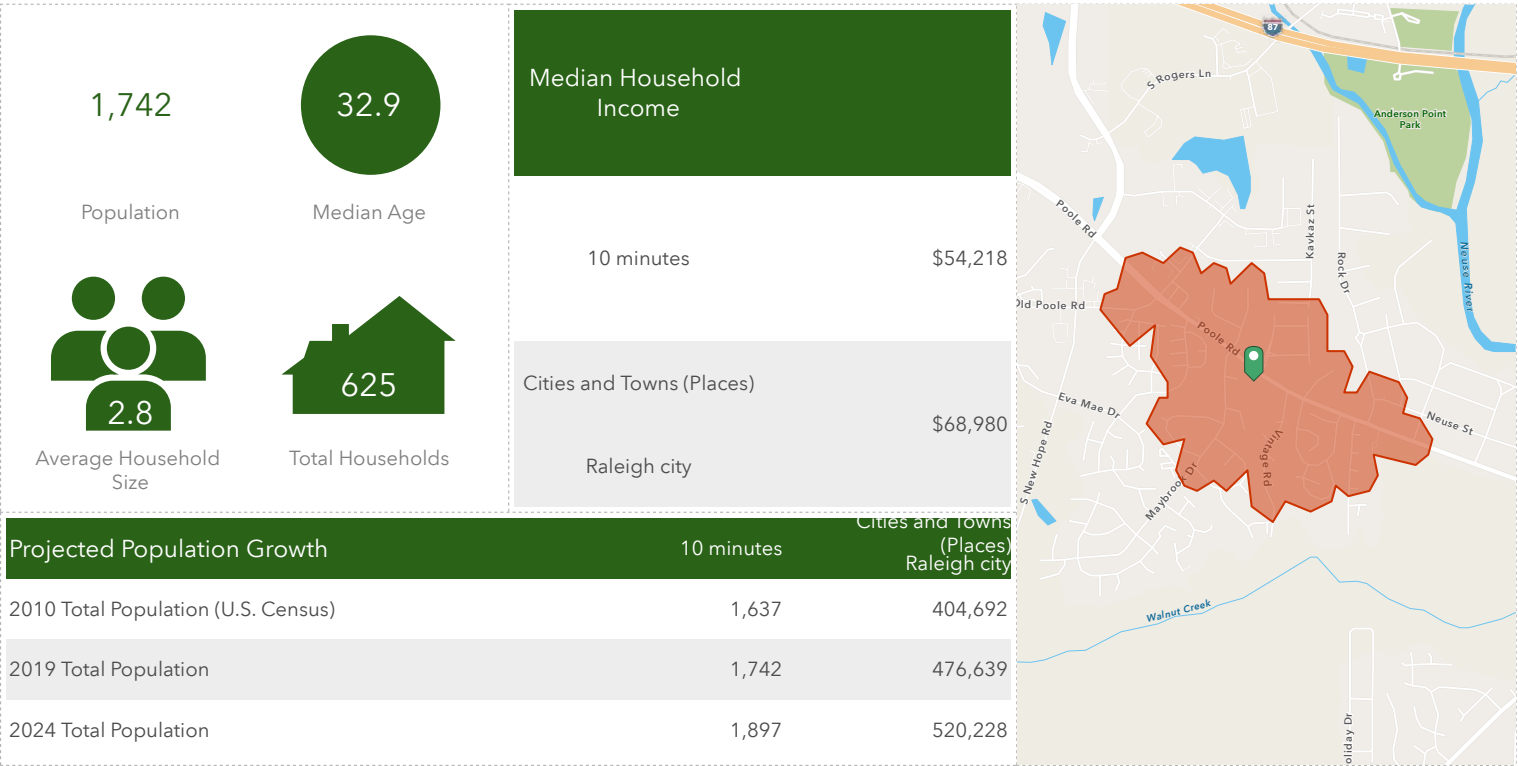
Communities exhibiting a high concentration of these five demographic and socioeconomic indicators are more likely to experience negative health outcomes such as heart disease, obesity, chronic stress, and depression—outcomes which can be mitigated with better access to high-quality open spaces, outdoor recreation, and safe places to play and exercise.

Prioritizing investments in these communities helps ensure that PRCR sites, facilities, and programs are more accessible to the communities that will benefit most from these public resources.



10-Minute Walk Demographics

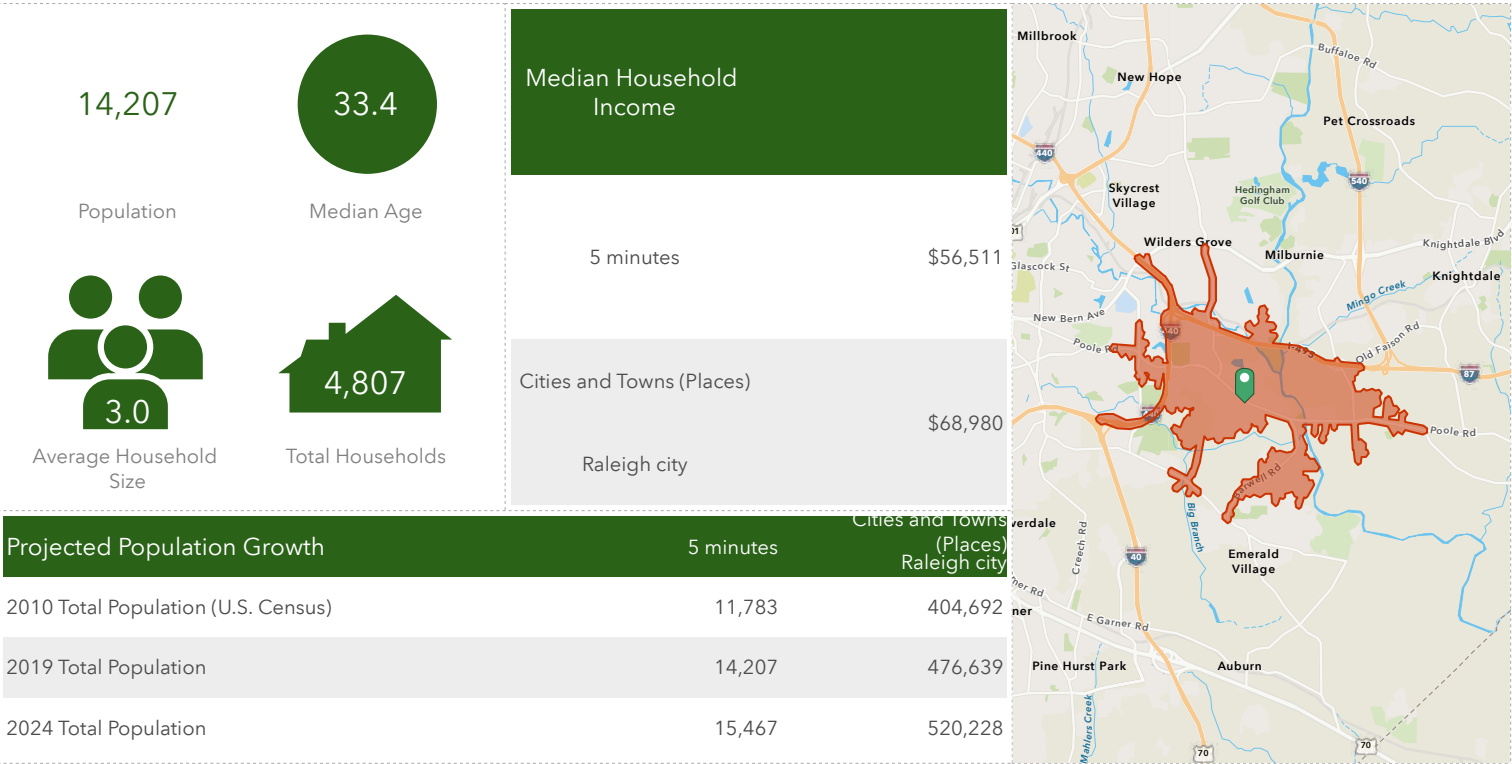
There are 1,742 people within a ten-minute walk from the Poole Rd. Property. This population has a lower median household income, has more 40-50 year-olds, and has a larger black population & Hispanic population than the average in the City of Raleigh. Within this population 73% of people own their home as opposed to renting, 18% of households have at least one person with a disability, 15% of households are below the poverty level, and 7% speak limited to no English.



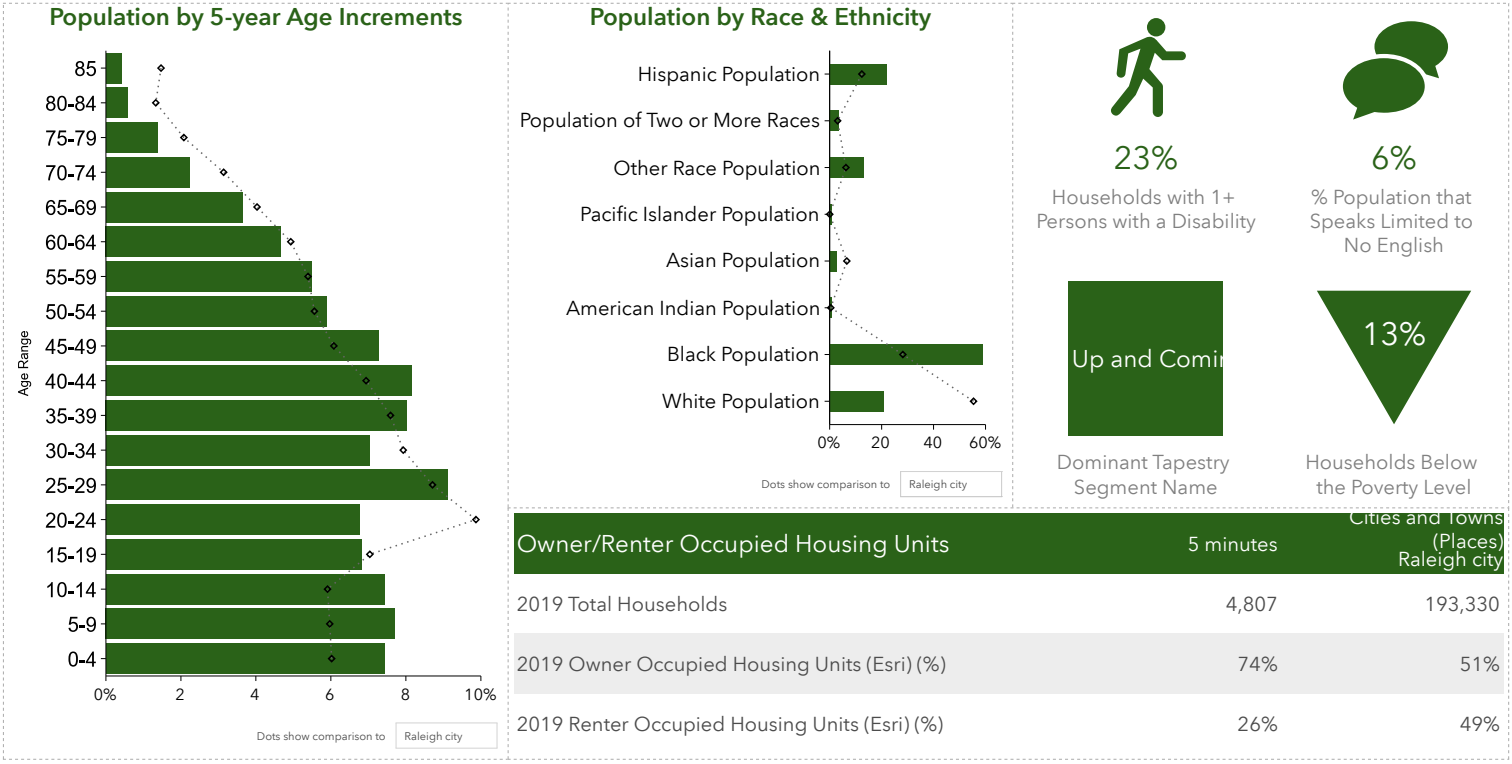
Data Source: ESRI Community Analyst

5-Minute Drive Demographics

There are 14,207people within a five-minute drive from the Poole Rd. Property. This population is similar to the ten-minute walk population in terms of median household income, age, and race. This population also has a high percentage of home owners, 23% of households have at least one person with a disability, 13% of households are below the poverty level, and 6% speak limited to no English.



Projected Population Growth	5 minutes	Cities and Towns (Places) Raleigh city
2010 Total Population (U.S. Census)	11,783	404,692
2019 Total Population	14,207	476,639
2024 Total Population	15,467	520,228



Data Source: ESRI Community Analyst

SUITABILITY ANALYSIS

Site & Context Analysis of the Poole Rd. Property yielded many results that should be considered when deciding where on the site it is appropriate for development. The findings of from this analysis are summarized below:

Slope & Topography

- Steep slopes on site should have very limited disturbance to help prevent erosion issues on site - there are no steep slopes on site

Soils

- Development in areas of the site with poorly drained & partially-hydric soils should be limited because of inundation issues - all soils on site are non-hydric

Hydrology

- Development by creeks & stormwater channels should be limited to provide a riparian buffer

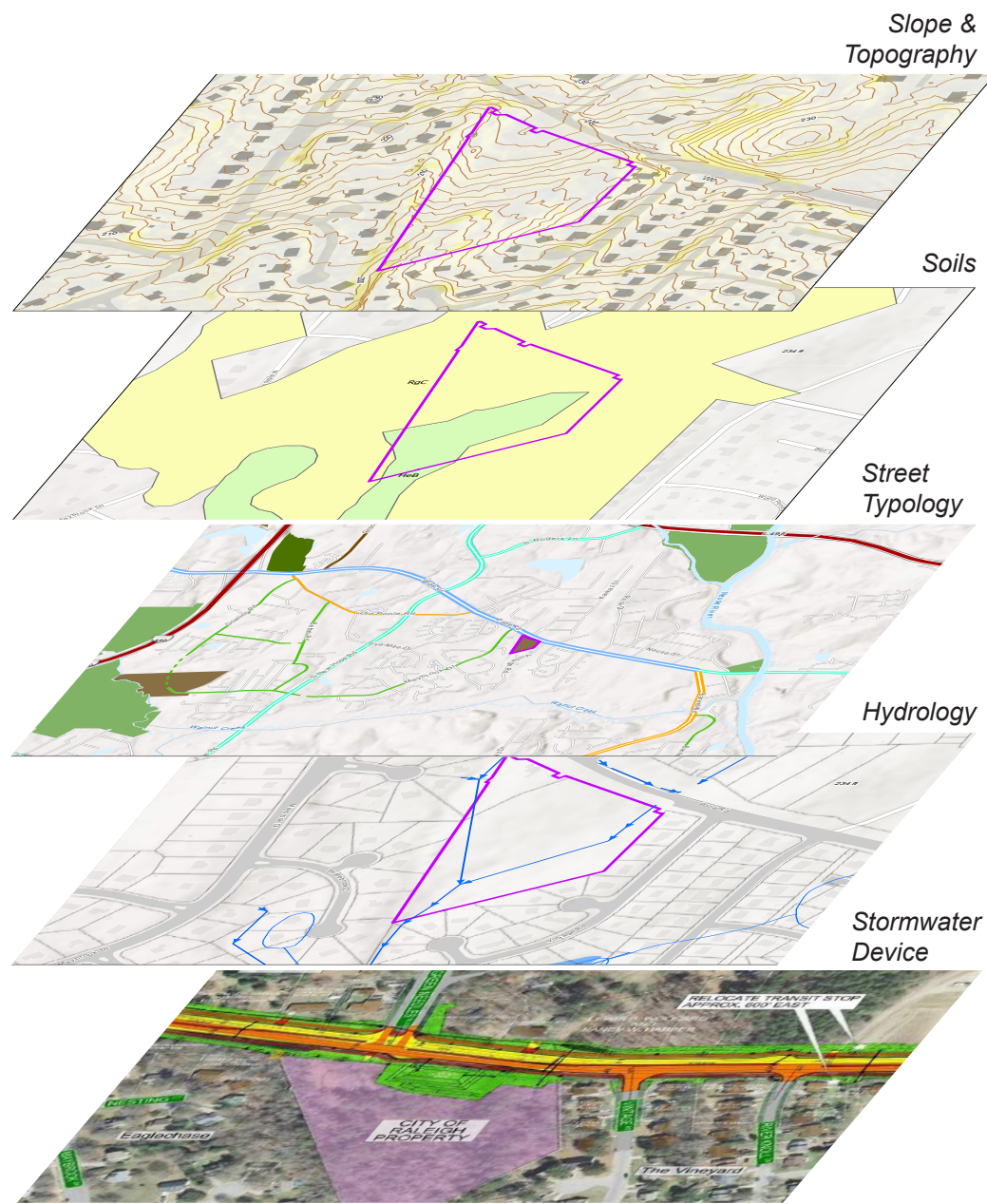
Street Typology

- Any future planning of the site should take into consideration the current road widening project happening along Poole Rd. Limited development should be directly adjacent to the Poole Rd until the road widening is complete

Stormwater Device

- A dry detention basin will be constructed on site to serve stormwater needs of the Poole Road Widening Project. No park development will be possible within the Private Drainage Easement (PDE) area associated with this stormwater device

Suitability Overlay Diagram



There are other results from the PDAP beyond just what affects site suitability. When public engagement begins with the start of the site development process, the project manager should keep the following in mind:

Site Vicinity

- The Poole Rd. Property has several Community & Homeowner Associations. Efforts should be made to include these communities in the park planning process.

Park & Greenway System Context

- The Poole Rd. Property should be planned within the larger context of the surrounding parks and greenways. When the site is developed, the experiences it provides should complement the park & greenway system in the area to help provide a broad range of activities for the community.

Zoning & Future Land Use

- Any development of the Poole Rd. Property should keep in mind the area surrounding the site will continue to be zoned residential.

Park Access, Equity, & Demographics

- The area surrounding the property has C & D grades for park access. The development of this site should help improve these grades.
- The area near the property has a high priority social equity score. Public engagement should target outreach in these areas.
- Public engagement should focus on outreach that recognizes the racial diversity of the area, as well as the populations who speak limited English, and the populations with disabilities.

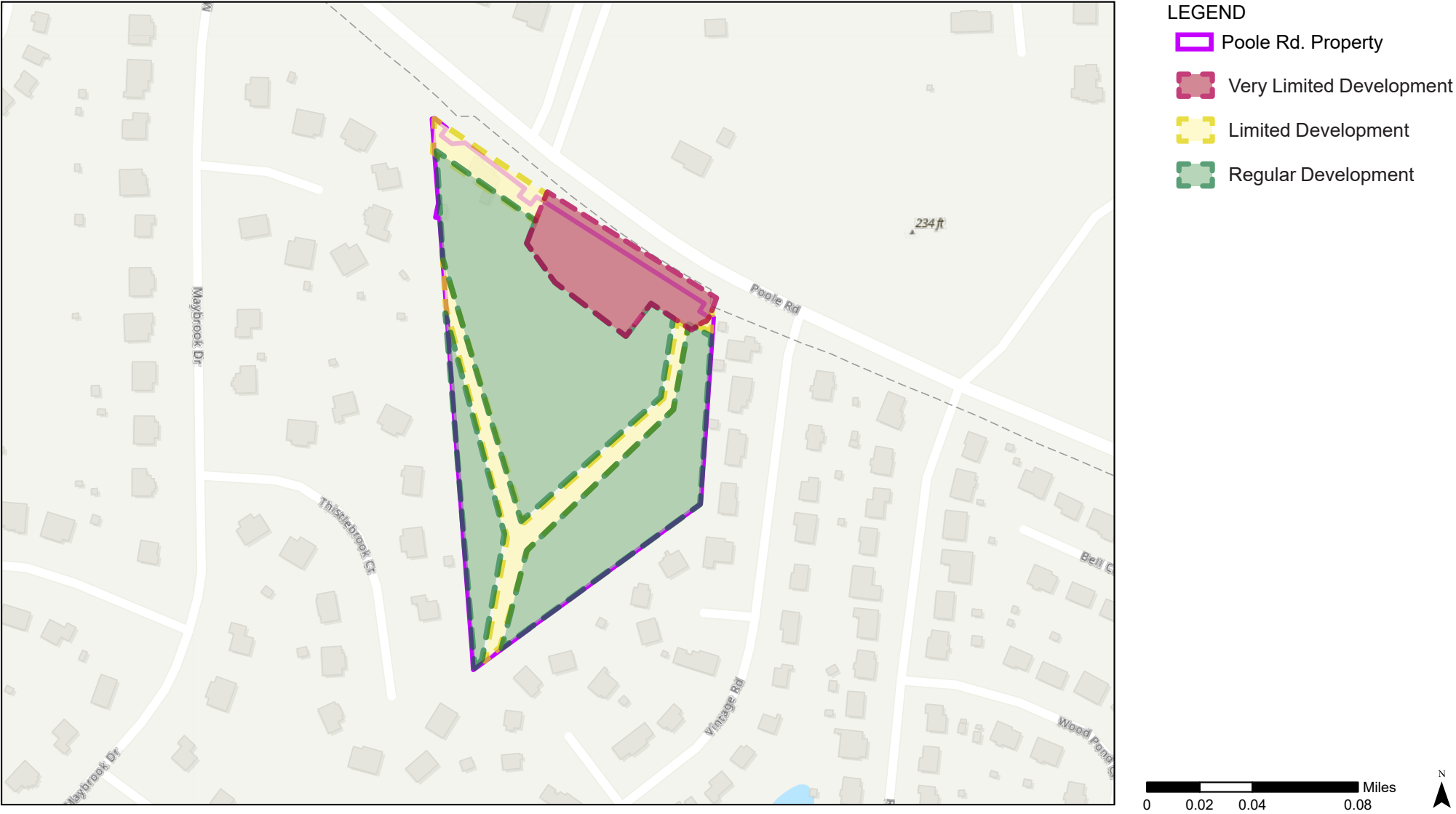
Development of this site for use as a public park will be extremely limited. Total area suitable for regular development will be less than 4 acres. This site may be considered for limited park uses, ideally those that could be provided as walk-to facilities without the need to dedicate significant area of the site to parking. Disposition of this property should be considered if a viable park use cannot be identified within the site constraints.

Based on the analysis of the site suitability overlay, the following map delineates approximate areas of the site that are recommended to have very limited, limited, or regular development.

- Very Limited Development**
 - These areas are suitable for low impact uses such as natural surface trails, nature education, interpretive signage, invasive removal, and creek bank stabilization
- Limited Development**
 - Development in these areas may be restricted by the presence of riparian buffers along creek beds and stormwater channels
- Regular Development**
 - These areas have no significant or special limitations on development and are open to most design choices that will facilitate a versatile park property.

Site Suitability Analysis - Development Capacity	
Area Suitable for Very Limited Development	1 Acres
Area Suitable for Limited Development	1 Acres
Area Suitable for Regular Development	3.6 Acres
Total Park Area	5.6 Acres

Site Suitability Map



INTERIM MANAGEMENT RECOMMENDATIONS

Primary Short-term Goals And Objectives

- 1. Implementation of coordinated monitoring and mapping efforts aiding in the development of biological inventories, identifying unauthorized uses, and potentially negative impacts to natural resources
- 2. Evaluation and control of invasive plant species
- 3. Further evaluate development potential of this site, and consider disposition of the property if it is determined to be unsuitable for future park development.

Long-term Goals

- 1. Implementation of additional ecological monitoring and mapping efforts
- 2. Retention and protection of documented significant plant and animal species
- 3. Improvement of wildlife habitat and natural plant communities through ecological restoration practices

Coordinated Monitoring and Mapping

Coordinated monitoring strategies can be used to address a variety of natural resource and land use concerns including the documentation of rare plants and animals, the identification and control of invasive plant species, and to gauge the extent of unauthorized access and use occurring onsite.

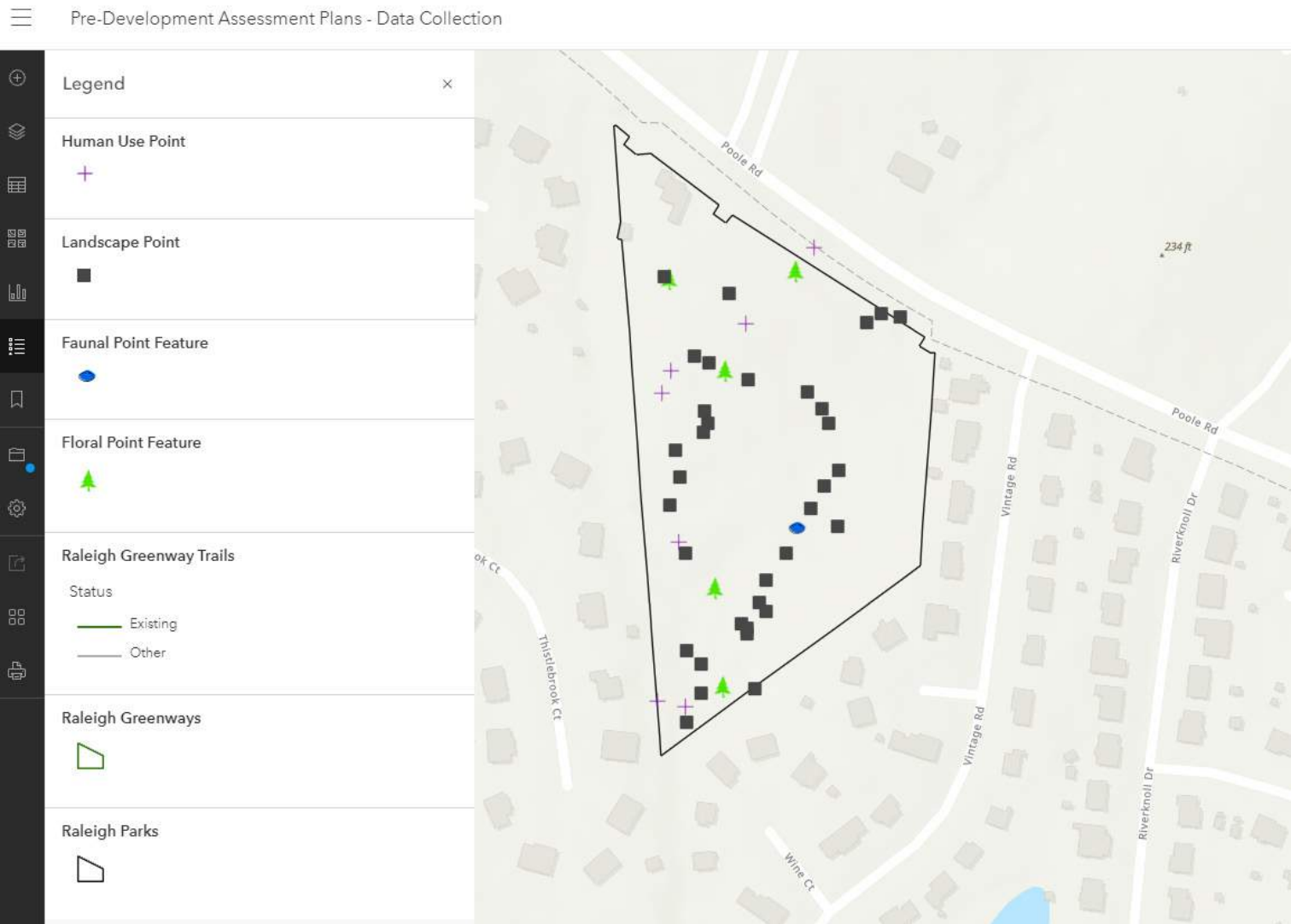
Current Management

To date, there have been no formal biological surveys conducted at the Poole Rd. Tract, nor have any regular ecological monitoring protocols been established.

Recommended Management

Expansion of monitoring efforts and capabilities

- PRCR staff will monitor for the presence of any significant/rare/protected plant and wildlife species, ensuring at least two site visits per year to align with the growing season and dormant season windows.
- PRCR staff should document the occurrence of invasive plant species found onsite, along with the approximate locations and levels of infestation whenever possible. Maintaining invasive plant species records will help simplify information sharing and future planning efforts.
- PRCR staff should engage with state and local government agencies for monitoring assistance. Agencies such as the NC Forest Service, NC Wildlife Resources Commission, NC Natural Heritage Program, NC Dept. of Agriculture and Consumer Services, NC Dept. of Environmental Quality, and others may be able to provide input and expertise that could help bolster monitoring efforts.



Current ArcGIS Online Database with Site Visit Data

Evaluation and Control of Invasive Plant Species

Several problematic invasive plant species have been observed onsite at the Poole Rd. Tract, many of which are listed in the tables above. This list of invasive plant species is not comprehensive and was compiled only after limited field observations. There are undoubtedly additional invasive plants species currently occurring onsite. As previously mentioned, monitoring efforts focused on the documentation of invasive plant species will be needed to inform the most effective and appropriate management strategies. PRCR should prioritize invasive species control efforts to address those species that pose the greatest ecological threats.

Current Management

No invasive plant species control efforts are currently being conducted onsite.



Invasive Species on Site

Recommended Management

Identification and prioritization of invasive species control

- PRCR staff should identify and prioritize invasive species control efforts based on the level of ecological threat posed by those species found on site. Resource allocation and the feasibility of control will need to be considered when developing plans for invasive species management.
- Kudzu and wisteria were located along the northern property line as it meets Poole Road, however, an ongoing road-widening project will likely impact these areas before invasive species controls can be initiated. Land disturbing activities like those associated with the road-widening project have been known to increase the establishment of non-native invasive plants, thus it will be critical to monitor these areas post-construction to ensure early detection and rapid response protocols for invasive species management can be followed.
- Japanese stiltgrass has been identified on the Poole Rd. Tract in scattered patches of variable densities. Treatment of stiltgrass would only be feasible in areas where the stiltgrass presents an acute ecological threat, namely in areas around significant plant species that have yet to be identified. PRCR staff should explore the management of stiltgrass and other invasive plant species that may be impacting sensitive native vegetation.
- PRCR staff will use herbicides to control invasive plant species when necessary. All herbicide applications on PRCR properties should follow the City of Raleigh Pesticide Policy and be approved by appropriate PRCR staff.
- PRCR staff from the Natural Resources Section and from the Parks Division will work together closely to coordinate resources needed for invasive plant control.

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