



**Russell R. McMurry, P.E., Commissioner**  
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November 4, 2022

Acting Georgia Field Supervisor  
U.S. Fish & Wildlife Service, Georgia Ecological Services  
RG Stephens Jr. Federal Building  
355 East Hancock Avenue, Room 320  
Athens, GA 30601  
ATTN: Meg Hedeem

Sabrina David, Georgia Division Administrator  
Federal Highway Administration  
Atlanta Federal Center  
61 Forsyth Street, S.W., Suite 17T100  
Atlanta, Georgia 30303-3104  
ATTN: Chetna Dixon-Thomas

Re: Action Request: No Coordination Required  
GDOT Project PI# 0015404, Lee County

Dear Acting Georgia Field Supervisor and Ms. David,

Please find attached the Ecology Resource Survey and Assessment of Effects Report for the above referenced project. The project would consist of a variety of roadway enhancements in the downtown area of the City of Leesburg, Georgia. As the Federal Highway Administration's designated non-federal representative, the Department provides the attached report containing details on findings related to ecological resources and has made the following determinations.

**FWCA - Action Request: No coordination required**

FWCA is not required because the project does not propose waters impacts.

**"No Effect" - Action Request: No coordination required**

The project would have "no effect" to the reticulated flatwoods salamander (*Ambystoma bishopi*), eastern indigo snake (*Drymarchon couperi*), gopher tortoise (*Gopherus polyphemus*), alligator snapping turtle (*Macrochelys temminckii*), wood stork (*Mycteria americana*), Canby's dropwort (*Oxypolis canbyi*), and relict trillium (*Trillium reliquum*). The proposed action is not likely to jeopardize the continued existence of the monarch butterfly (*Danaus plexippus*).

Please copy the Lead Federal Agency, GDOT Ecologist, and GDOT Environmental Analyst assigned to the project on any correspondence. If you have any questions or need additional information, please contact GDOT Support Service Ecologist Alicia Davila at 678-247-2655

PI# 0015404, Lee County  
November 4, 2022

(ADavila@dot.ga.gov) or GDOT Ecology Team Leader Matt Carroll at 404-631-1174  
(MCarroll@dot.ga.gov).

Sincerely,

Handwritten signature of Eric Duff in cursive, followed by a slash and the initials 'mc'.

Eric Duff  
State Environmental Administrator

ED/MC/dh

Enclosure

cc:

Michael Lawing, GDOT Project Manager  
Robert Boot, GDOT Environmental Analyst (RBoot@dot.ga.gov)  
Daryl Williams, GDOT ECB  
Lisa Westberry, GDOT Mitigation  
EPD-GDOT Inbox ([epd.gdot@dnr.ga.gov](mailto:epd.gdot@dnr.ga.gov))  
Eric Somerville, EPA  
GDOT IOEQ Inbox ([IOEQsubmittals@dot.ga.gov](mailto:IOEQsubmittals@dot.ga.gov))  
Doug Hart, Kimley-Horn & Associates, Inc.



**Ecology Resource Survey and Assessment of Effects Report:**

SR 3/US 19 @ SR 32

Lee County

PI No. 0015404

October 2022

**Prepared by:** Kimley-Horn & Associates, Inc.

**Under Contract With:** Southeastern Engineering, Inc.

**Prepared for:** Georgia Department of Transportation

Report Author:



Doug Hart, PWS, Ecologist

Consultant Reviewer:



Megan Kelley, Ecologist

GDOT Reviewer:



Alicia Davila, PWS, GDOT Support  
Services Ecologist

Ecology Resource Survey and Assessment of Effects Overview  
PI No. 0015404, Lee County

<b>Jurisdictional Waters</b>			
Resource Type	# Within Survey Area	Length of Impact (ft.)	Area of Impact (ac.)
Perennial Stream(s)	1	0	0
Intermittent Stream(s)	0	N/A	N/A
Ephemeral Channel(s)	0	N/A	N/A
<b>TOTAL</b>	1	0	0
<b>Wetland(s)</b>			
Wetland(s)	0	N/A	N/A
Open Water(s)	0	N/A	N/A
<b>TOTAL</b>	0	N/A	N/A

<b>Project Info</b>	
Funding Type	Federal
Project Delivery Type	Design-Bid-Build

<b>Present in the Study Area</b>	
Invasive Species	No
Eagle Habitat	No
Eagle Nest	No
Critical Habitat	No
Essential Fish Habitat	No
Bat Roosting Habitat	No
Migratory Bird Habitat	No

Key: Not Applicable (N/A)

<b>Agency Coordination</b>	
Coordination under the Fish and Wildlife Coordination Act	NR
Consultation under Section 7 of the Endangered Species Act (ESA)	NR (No Effect)
Special Provision(s)	NR
Section 7 ESA Consultation for Designated Critical Habitat	NR
Consultation under Magnuson-Stevens Fisheries Conservation Act (MSFCA) for Essential Fish Habitat	NR
Expected Clean Water Act Section 404 Permit(s)	NR
Expected Clean Water Act Section 404 Permit Mitigation	NR
Georgia Stream Buffer Variance	NR
Georgia Stream Buffer Mitigation Credits	NR

Key: Not Required (NR)

Federal and State Protected Species							
Common Name	Scientific Name	Federal Rank	State Rank	Habitat Present	Species Present	Special Provision	Effect Determination
Reticulated flatwoods salamander	<i>Ambystoma bishopi</i>	E	E	No	No	No	NE
Monarch butterfly	<i>Danaus plexippus</i>	C	-	NA	NA	No	NLJ
Eastern indigo snake	<i>Drymarchon couperi</i>	T	T	No	No	No	NE
Gopher tortoise	<i>Gopherus polyphemus</i>	C	T	No	No	No	NE
Alligator snapping turtle	<i>Macrochelys temminckii</i>	PT	T	No	No	No	NE
Wood stork	<i>Mycteria americana</i>	T	E	No	No	No	NE
Canby's dropwort	<i>Oxypolis canbyi</i>	E	E	No	No	No	NE
Relict trillium	<i>Trillium reliquum</i>	E	E	No	No	No	NE
Inflated spike	<i>Elliptio purpurella</i>	-	T	No	No	No	NE
Barbour's map turtle	<i>Graptemys barbouri</i>	-	T	No	No	No	NE
Silky camellia	<i>Stewartia malacodendron</i>	-	R	No	No	No	NE

Key: Endangered (E), Threatened (T), Candidate (C), Proposed Threatened (PT), Rare (R), Not Assessed (NA), No Effect (NE), Not Likely to Jeopardize (NLJ)

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**I. DOCUMENT VERSION SUMMARY**

<b>Date</b>	<b>Description of Changes</b>
10/2022	Ecology Resource Survey and Assessment of Effects Report (ERS-AOER)

## II. PROJECT OVERVIEW

### A. Project Location and Description

Georgia Department of Transportation (GDOT) Project PI No. 0015404 is an enhancement project located in the City of Leesburg, Georgia (Section V, Figure 1).

The proposed project would consist of the construction of new public parking, Americans with Disabilities Act (ADA) compliant five-foot-wide sidewalks, curb and gutter, and greenspace in the downtown business district of Leesburg. The existing paved median between the Courthouse Avenue one-way paired travel lanes in front of the Lee County Courthouse would be converted to grass. New public parking is proposed between 3rd Street, Leslie Highway, and the Lee County Probation Office to replace the parking area removed from the paved median in front of the courthouse. The new five-foot-wide sidewalk with curb and gutter is proposed for:

- The west side of State Route (SR) 3/United States Highway (US) 19/Walnut Avenue from the GDOT maintenance facility south to SR 32/4<sup>th</sup> Street.
- The east side of SR 3/SR 32/US 19/Walnut Avenue from just south of Callaway Street to SR 32/4<sup>th</sup> Street.
- The north side of 4<sup>th</sup> Street from Courthouse Avenue and SR 32/4<sup>th</sup> Street east approximately 160 feet to the courthouse rear parking entrance/exit.
- Along the east side of the northbound lanes of SR 32/Main Street from SR 32/4<sup>th</sup> Street, continuing east along the north side of SR 32/Main Street to a point approximately 650 feet west of Church Avenue.

The existing travel lane widths would remain as is. The speed limit ranges in the corridor from 35 to 45 miles per hour. No additional right-of-way is currently anticipated for the construction of this project. The project would result in approximately 3.6 acres of disturbed acreage.

**Table 1. Project Location**

Nearest City or Other Defining Feature:	In the City of Leesburg
County	Lee
Project Midpoint	31.732232, -84.171637
Level IV Ecoregion	Dougherty Plain (65g)
HUC 10 Watershed Name	Fowltown Creek-Kinchafoonee Creek (HUC 0313000706)

### B. Survey Methodology

Background research of relevant published and online information sources was conducted prior to field surveys to identify potential ecological resources within the study area. Sources included US Geologic Survey (USGS) topographic maps, National Wetland Inventory (NWI) maps, and US Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) soil survey maps of the county. Prior to visiting the proposed project site, ecologists reviewed the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, USFWS Georgia Ecological Services Field Office – Southeast Region HUC 10 Watershed Reports, and the Georgia Natural Archaeological Historical Resources GIS (GNAHRGIS) Ecology Review and Surveys Module to identify protected species that could potentially occur within the HUC 10 watershed and county (Appendix A). Species descriptions were prepared using the Georgia Department of Natural Resources (GADNR) Wildlife Resource Division website, NatureServe Explorer, and USDA-NRCS Plants database.

Field surveys to assess and document the presence of ecological resources such as habitat/land use within the project boundaries, and presence and location of jurisdictional and state waters, protected species and their habitats, and other

ecological resources were conducted using approved methodologies. Jurisdictional wetland determinations were performed using the three-parameter approach (hydrophytic vegetation, hydric soils, and hydrology) as described in the 1987 U.S. Army Corps of Engineers (USACE) *Wetland Delineation Manual* and utilized the *2010 Atlantic and Gulf Coastal Plain Regional Supplement* as guidance. Stream classifications were performed using the North Carolina Division of Water Quality (NC DWQ) *Methodology for Identification of Intermittent and Perennial Streams and Their Origins*, Version 4.11. State waters were delineated using the Georgia Environmental Protection Division (EPD) *2017 Field Guide for Determining the Presence of State Waters that Require a Buffer*. Surveys for protected species or their habitats were conducted using approved survey methodologies and/or appropriate resource agency recommendations to assess habitat suitability and species presence as appropriate.

### C. Survey Summary

**Table 2. Survey History**

Survey Type	Date of Survey	Recommended Survey Season	Surveyor Name, Affiliation	Survey Duration	Surveyed Area
Resource Survey – full project corridor pedestrian survey, including assessment of waters and species habitat	2/23/2021	Year round	Doug Hart, Kimley-Horn	6 hours	18 acres

#### Qualifications Statements

Doug Hart (author, field surveyor) is an Ecologist and Professional Wetland Scientist with six years of environmental consulting experience in Georgia. His experience includes wetland and stream delineations, habitat assessments, protected species surveys, permitting, reports, and geographic information systems (GIS) analysis for transportation projects across the state of Georgia. He has completed professional training courses in wetland delineation, hydric soils, wetland vegetation identification, Section 7 of the Endangered Species Act, stream classification, bats in bridges, GPS Pathfinder Office, and the GDOT Plan Development Process. Doug has a Bachelor of Science in Ecology from the University of Georgia that included coursework in plant ecology, natural history, and spatial analysis.

Megan Kelley (reviewer) is an Ecologist with three years of environmental consulting experience in Georgia. Her experience includes wetland and stream delineations, habitat assessments, protected species surveys, permitting, reports, and GIS analysis. She previously served as a field technician for the Georgia Department of Natural Resources where she gained additional experience in habitat restoration, invasive species treatment, and prescribed fire training. She has completed professional training courses in wetland delineation, bats in bridges, and the GDOT Plan Development Process. Megan has a Bachelor of Science in Ecology from the University of Georgia that included coursework in ecosystems ecology, natural history, and spatial analysis.

**Table 3. Weather Conditions**

Weather conditions during surveys are presented below. Weather data was compiled from the following sources: University of Georgia Weather Network, National Oceanic and Atmospheric Administration – Comparative Climatic Data

Date Of Survey:	February 23, 2021
Average Temperature:	70°F
Weather Conditions:	Sunny
Date of Most Recent Precipitation Event:	February 17-19, 2021
Amount of Most Recent Precipitation Event:	1.35 inches
Cumulative Precipitation for Previous 30 Days:	8.59 inches
Climate Normal Precipitation for Previous Calendar Month:	3.85 (Columbus, GA)

**Table 4. Habitat and Land Use Types Summary**

Habitat and land use types within the survey area along with their absolute and relative coverages within the survey area are presented below.

Habitat and Land Use Type	Acreage within survey area	Approx. % of survey area	Brief description (include dominant species present and approximate size of trees if forested)	Suitable for protected species?
Developed land	15.3	85	SR 3/US 19, SR 32, and other paved roadways, along with various commercial, governmental, and residential structures throughout the survey area.	No
Maintained land	2.7	15	Maintained rights-of-ways, lawns, and greenspaces throughout the survey area. Dominant species include Bermuda grass ( <i>Cynodon dactylon</i> ) and Bahia grass ( <i>Paspalum notatum</i> ). Occasional trees include water oak ( <i>Quercus nigra</i> ) and southern magnolia ( <i>Magnolia grandiflora</i> ).	No

**Table 5. Invasive Species Summary**

In accordance with Executive Order (E.O.) 13112 (Invasive Species, Feb. 3, 1999) and E.O. 13751 (Safeguarding the Nation from the Impacts of Invasive Species, Dec. 5, 2016), a survey for populations of invasive species that may be spread during construction was conducted for this project. The spread of invasive species will be minimized by the Contractor’s adherence to Standard Specifications, Section 201, Clearing and Grubbing of Right-of-Way.

Common Name	Scientific Name	EDDMapS Record ID	Description of infestation
N/A	N/A	N/A	N/A

Key: Not Applicable (N/A)

### III. FEDERALLY PROTECTED RESOURCES

#### A. Action Area

Action area is defined in 50 CFR 402.02 as all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action. The action area for the proposed project extends approximately one mile beyond the environmental survey boundary (Appendix II). The action area is based on the anticipated extent of potential impacts (e.g., water quality and sedimentation, noise and lighting) resulting from project actions.

#### B. Overview of Federal Resources

In compliance with various federal regulations and laws, project ecologists considered impacts to federally protected resources that could occur as a result of this project. These resources include protected species and their proposed and designated Critical Habitat, Essential Fish Habitat, migratory birds, bald and golden eagles, and Jurisdictional Waters of the U.S.

The USFWS IPaC species list for the project area includes the federally protected reticulated flatwoods salamander (*Ambystoma bishopi*), monarch butterfly (*Danaus plexippus*), eastern indigo snake (*Drymarchon couperi*), gopher tortoise (*Gopherus polyphemus*), alligator snapping turtle (*Macrochelys temminckii*), wood stork (*Mycteria americana*), Canby's dropwort (*Oxypolis canbyi*), and relict trillium (*Trillium reliquum*). Although the following species have element occurrence records documented in the GNAHRGIS Ecology Module, they are outside of the USFWS consultation range and no further analysis is required: shinyrayed pocketbook (*Hamiota subangulata*) and oval pigtoe (*Pleurobema pyriforme*).

**Table 6. Federally Protected Species Summary**

In compliance with the Endangered Species Act (ESA), the lead federal agency must identify the presence of proposed or listed threatened and endangered species and proposed or designated Critical Habitat, as well as evaluate impacts to these resources. Species that are candidates for listing under the ESA are also considered in the report.

Common Name, Scientific Name	Status	Predicted within project area?	Species Description (including range)	Description of preferred habitat	Habitat or Species Present?	Habitat Assessment/ Effect Analysis	Effect Determination
Reticulated flatwoods salamander, <i>Ambystoma bishopi</i>	FE	Yes, 2.2 miles east (historic)	Black to dark brown salamander with light gray or white flecked lines; Found in the Coastal Plain	Mesic flatwoods habitats within longleaf pine-wiregrass communities	Habitat: No EO within action area: No Species: No	No longleaf pine communities or mesic flatwood habitats are present within the survey area. No suitable habitat for the reticulated flatwoods salamander is present. Additionally, there are no records of the species within the action area.	No Effect
Monarch butterfly, <i>Danaus plexippus</i>	FC	Not assessed	Butterfly with orange and black markings and wingspan of 7-10 cm; breeding and migration throughout GA; range is statewide	Open habitats that contain milkweed plants or other nectar-producing plants	Habitat: Not assessed EO within action area: N/A Species: Not assessed	Potentially suitable monarch butterfly habitat occurs statewide and may be present within existing and proposed GDOT rights-of-way. The lead Federal Agency and GDOT have determined a Section 7 conference is not warranted.* Based on the scope of the action compared to the range and distribution of this species, the action, as proposed, is not likely to jeopardize the continued existence of the monarch butterfly and will be completed before a final listing decision.	Not likely to jeopardize
Eastern indigo snake, <i>Drymarchon couperi</i>	FT	No	Long, iridescent, blue-black snake that is associated with the gopher tortoise; Found in the Coastal Plain	Longleaf pine ( <i>Pinus palustris</i> ) and turkey oak ( <i>Quercus laevis</i> ) communities; retreats to stump holes and gopher tortoise burrows in the winter; will forage along wetland corridors	Habitat: No EO within action area: No Species: No	No longleaf pine communities are present within or surrounding the survey area. No wetlands are present within the survey area. No suitable habitat for the eastern indigo snake is present. Additionally, there are no records of the species within the action area.	No Effect

Common Name, Scientific Name	Status	Predicted within project area?	Species Description (including range)	Description of preferred habitat	Habitat or Species Present?	Habitat Assessment/ Effect Analysis	Effect Determination
Gopher tortoise, <i>Gopherus polyphemus</i>	FC	No	Large terrestrial turtle with a flattened carapace and a wide and rounded head that is gray or brown in color; Found in the Coastal Plain in Georgia	Sandy soils, with an abundance herbaceous vegetation in longleaf pine-wiregrass communities	Habitat: No EO within action area: No Species: No	No longleaf pine communities are present within or surrounding the survey area. Vegetation within the maintained habitat consists of regularly mowed grasses and scattered shrubs and trees; a dense herbaceous layer is not present. According to the USDA-NRCS soil survey, soils within the survey area consist of well-drained loamy sands and sandy loams. GADNR reports these soils as less suitable to marginal habitat for the gopher tortoise; however, the area is not included on the USFWS Habitat Suitability Model for Gopher Tortoise. No suitable habitat for the gopher tortoise is present. Additionally, there are no records of the species within the action area.	No Effect
Alligator snapping turtle, <i>Macrochelys temminckii</i>	PT	No	Large turtle with a broad, flat carapace bearing three jagged ridges and is dark-brown to reddish-brown in color, dark brown skin; Found in the Gulf Coast Drainages	Large streams and rivers in undercut banks, log jams, and deep holes	Habitat: No EO within action area: No Species: No	Perennial Stream 1 is a small stream occurring in a man-made ditch. No large streams or streams with undercut banks, log jams, or deep holes are present in the survey area. Additionally, there are no records of the species within the action area.	No Effect
Wood stork, <i>Mycteria americana</i>	FT	No	Tall white bird with a black head; Found in the Coastal Plain regions	Forage and nest in freshwater and estuarine wetlands; nest in large or small trees in standing water or on islands surrounded by water.	Habitat: No EO within action area: No Species: No	No wetlands are present within the survey area. No suitable habitat for the wood stork is present. Additionally, there are no records of the species within the action area.	No Effect

Common Name, Scientific Name	Status	Predicted within project area?	Species Description (including range)	Description of preferred habitat	Habitat or Species Present?	Habitat Assessment/ Effect Analysis	Effect Determination
Canby's dropwort, <i>Oxypolis canbyi</i>	FE	No	Colony forming perennial herb with smooth, tall, erect stems and clusters of flowers with small white petals; Found in the Coastal Plain of Georgia	Wetlands, such as cypress ponds and sloughs with acidic soils, high water levels, and patchy or no canopy cover	Habitat: No EO within action area: No Species: No	No wetlands are present within the survey area. No suitable habitat for the Canby's dropwort is present. Additionally, there are no records of the species within the action area.	No Effect
Relict trillium, <i>Trillium reliquum</i>	FE	Yes, 2 miles southwest (historic)	Perennial herb with a hairless stem that is long, curving, or resting on the ground and 5 shades of green on leaves with a silvery streak along the midvein; Found in the lower Piedmont and Inner Coastal Plain regions	Mature hardwood forests in rich ravines and on stream terraces over calcium-rich bedrock	Habitat: No EO within action area: No Species: No	No forested areas or rich ravines are present within the survey area. Perennial Stream 1 is a small stream occurring in a man-made ditch which does not feature terraces. No suitable habitat for the relict trillium is present. Additionally, there are no records of the species within the action area.	No Effect

Key: Federal Endangered (FE), Federal Threatened (FT), Federal Candidate (FC), Proposed Threatened (PT), Not Applicable (N/A), Element Occurrence (EO)

Sources: USFWS IPaC System, official species list for the survey area generated on October 12, 2022; USFWS HUC 10 Watershed Report documenting known federal species occurrences within the project vicinity.

\*On December 15, 2020, the USFWS announced that listing the monarch butterfly as endangered or threatened under the ESA is warranted but precluded. As a result, the monarch butterfly is now a candidate under the ESA. The lead Federal Agency may treat candidate species as proposed under the ESA and request conference, as appropriate, if they determine a proposed action is likely to jeopardize the continued existence of the species or if the species may be listed prior to completion of project construction.

**Table 7. Proposed or Designated Critical Habitat Summary**

Critical Habitat is designated under the Endangered Species Act for the protection and recovery of listed species.

Is Critical Habitat present within the survey area?	No
If so, list species here:	N/A
Effect Analysis:	No Critical Habitat is located in the survey area. The proposed project would have no effect to Critical Habitat.
Effect Determination:	No Effect

Key: Not Applicable (N/A)

**Table 8. Essential Fish Habitat Summary**

Essential Fish Habitat (EFH) is protected under the Magnuson-Stevens Fishery Conservation and Management Act, as amended in 1996. EFH refers to habitat that supports breeding, spawning, nursery, feeding, and protection functions for marine species. As such, it includes rivers and estuaries that are used for spawning by anadromous species. In compliance with the Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), GDOT must identify unavoidable adverse impacts to EFH.

Is EFH present within the survey area?	No
Will EFH be impacted as a result of this project?	No
Effect Analysis:	The project is not located in the coastal counties of Georgia which contain EFH. The proposed project would have no effect to EFH.
Recommended Effect Determination:	No Effect

**Table 9. Migratory Birds Summary**

The Migratory Bird Treaty Act (16 U.S.C. 703-711) requires the protection of migratory birds by prohibiting take of birds, feathers, eggs, and nests. Actions must be taken to avoid or minimize impacts to migratory birds and to prevent or abate the detrimental alteration of the environment for the benefit of migratory birds, as practicable (Appendix B).

Survey Date:	2/23/2021
Was evidence of nesting migratory birds observed on structures?	No
Nesting species (if known):	N/A
Approximate number of nests observed:	N/A
Protective measures:	N/A

Key: Not Applicable (N/A)

**Table 10. Bald and Golden Eagles Summary**

The Bald and Golden Eagle Protection Act (BGEPA) provides for the protection of the bald eagle (*Haliaeetus leucocephalus*) and the golden eagle (*Aquila chrysaetos*) by prohibiting, except under certain specified conditions, the taking, possession, and commerce of such birds. Under the BGEPA, a “take” of an eagle is defined as “pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, destroy, molest, or disturb.” Golden eagles occur in very low densities in Georgia and are present only during the winter months. Reintroduction efforts have not been successful and there are no known breeding pairs in Georgia. Additionally, given their reclusive nature, it is unlikely that active GDOT projects would impact golden eagles. Therefore, a habitat assessment and effect analysis was conducted only for bald eagles.

Survey Date:	2/23/2021
Known eagle nest location within 3 miles?	No
Is eagle foraging/nesting habitat present within survey area?	N/A
Effect Analysis:	The survey area does not feature any wetlands or large bodies of open water suitable for foraging, or any tall trees isolated from human disturbance suitable for nesting. Suitable bald eagle foraging or nesting habitat is not present within the survey area.
Would this project result in "take" of bald or golden eagles?	No
Protective measures:	Not Required

Key: Not Applicable (N/A)

**Table 11. Jurisdictional Waters of the U.S.**

Jurisdictional Waters of the U.S. are defined by 33 CFR Part 328.3(b) and are protected by Section 404 of the Clean Water Act (33 USC 1344).

Resource Name	HUC 10	Location Description	Latitude	Longitude	Description of Resource	Impact description (Include type, duration, and size of impact)	Buffered? (If Yes, see also Table 15)	FWCA?	Habitat for T&E? If so, list species.	Impact Total (linear feet)	Impact Total (acres)
Perennial Stream 1 (PS 1)	0313000706	South of SR 32/Main Street, east of Courthouse Avenue. Flows south from 18" reinforced concrete pipe (RCP).	31.731373	-84.171057	<b>Wetted:</b> 5' x 1' <b>Bankfull:</b> 6' x 2' <b>Substrate:</b> silt, sand, cobble <b>Flow Regime:</b> moderate <b>Structure:</b> runs and pools <b>Length within Survey Area:</b> 22 linear feet	None, outside construction limits and protected by orange barrier fencing	Yes	No	No	0	0
<b>Total Stream Impacts</b>										<b>0</b>	<b>0</b>
<b>Total Wetland Impacts</b>										<b>N/A</b>	<b>N/A</b>
<b>Total Open Water Impacts</b>										<b>N/A</b>	<b>N/A</b>
<b>Expected Clean Water Act Section 404 Permit:</b>						Not Required					
<b>Expected Clean Water Act Section 404 Permit Mitigation</b>						Not Required					

Key: *Not Applicable (N/A)*

### **C. Avoidance and Minimization of Federal Resource Impacts**

No suitable habitat for federally protected species, Critical Habitat, Essential Fish Habitat, migratory bird habitat, or bald eagle habitat were observed within the survey area. One jurisdictional Water of the U.S., PS 1, was identified in the survey area. The stream is outside of project limits and would be protected by orange barrier fencing to prevent incidental encroachment during construction. An avoidance and minimization meeting was held on June 30, 2022; meeting minutes are included in Appendix B.

### **D. Permits and Mitigation**

All impacts will require mitigation if stream impacts exceed 100 linear feet or wetland impacts exceed 0.1 acre, per the USACE, Savannah District's 2018 *Standard Operating Procedure for Compensatory Mitigation*. No permit or compensatory mitigation would be required for this project.

## **IV. STATE PROTECTED RESOURCES**

### **A. Overview of State Protected Resources**

In compliance with various State laws, project ecologists considered impacts to state protected resources that could occur as a result of this project. These resources include endangered, threatened, rare and unusual species including bats, as well as state waters and their associated buffers.

A GNAHRGIS letter was received from GADNR on March 5, 2021, documenting occurrences of the inflated spike (*Elliptio purpurella*), Barbour's map turtle (*Graptemys barbouri*), and silky camellia (*Stewartia malacodendron*) within the consultation range of the proposed project. An updated GNAHRGIS review was conducted on August 18, 2022, and no new species were identified since previous coordination.

**Table 12. State Protected Species Summary**

The Georgia Endangered Wildlife Act prohibits the capture, killing, or selling of protected species and protects the habitat of these species on public lands. Georgia’s Wildflower Preservation Act of 1973 provides for designation of and protection of plant species that are rare, unusual, or in danger of extinction. State protected terrestrial species that have known occurrences within 3 miles of the project area or aquatic species with known occurrences within the HUC 10 watershed are considered in the report.

Common Name, Scientific Name	Status	Predicted within project area?	Species Description (including range)	Description of preferred habitat	Habitat or Species Present?	Effect Analysis	Effect Determination
inflated spike, <i>Elliptio purpurella</i>	ST	Yes, occurrence 1.1 mile southwest of site in Kinchafoonee Creek	Shell is small, inflated and elliptical or elongate, periostracum is typically green to dark brown or black in adults; Found in the Apalachicola River Basin	Sand and limestone shoals in medium sized creeks to large rivers. Also often found in clay-bottomed streams	Habitat: No EO within action area: No Species: No	PS 1 is a small stream occurring in a man-made ditch which does not contain sand or limestone shoals. No medium-sized creeks or large rivers are present in the survey area. No suitable habitat for the inflated spike is present. Additionally, there are no records of the species within the action area.	No Effect
Barbour's map turtle, <i>Graptemys barbouri</i>	ST	Yes, occurrence 0.9 mile southwest of site	Turtle with much larger females than males; olive to olive-brown carapace with black-tipped spines and yellow, C-shaped markings along the scutes; Found in the Apalachicola, Chattahoochee, Flint, & Ochlockonee River basins	Wide and swiftly flowing streams with abundant snags and fallen trees	Habitat: No EO within action area: Yes Species: No	PS 1 is a small stream occurring in a man-made ditch. No wide, swiftly flowing streams are present in the survey area. While no suitable habitat is present within the survey area, there is a record of this species within the action area for the project. It is unlikely that construction noise or lighting would impact this aquatic species. Standard erosion control best management practices (BMPs) would be established along the perimeter of the project area, limiting runoff from disturbed soil, excavation spoil, or chemical contaminants associated with construction of the proposed project from impacting the occurrence of the species.	No Effect

Common Name, Scientific Name	Status	Predicted within project area?	Species Description (including range)	Description of preferred habitat	Habitat or Species Present?	Effect Analysis	Effect Determination
silky camellia, <i>Stewartia malacodendron</i>	SR	Yes, occurrence 3 miles northeast of site (historic)	Shrub or small tree with a single often leaning arching trunk, white flowers are on short stalk; Found in central to southern Georgia	Rich ravine and slope forest with beech ( <i>Fagus grandifolia</i> ), oak ( <i>Quercus</i> spp.), basswood ( <i>Tilia americana</i> ), and spruce pine ( <i>Pinus glabra</i> ) and lower slopes of sandhills above bogs and swamps	Habitat: No EO within action area: No Species: No	No forested areas or rich ravines are present in the survey area. No suitable habitat for the silky camellia is present. Additionally, there are no records of the species within the action area.	No Effect

Key: State Threatened (ST); State Rare (SR); Element Occurrence (EO)

Sources: Element Occurrence Letter from Georgia DNR (Maggie Aduddell Hunt) dated March 5, 2021, documenting known occurrences of terrestrial protected species within a three-mile radius of project or aquatic protected species within the HUC 10 watershed.

**Table 13. State Protected Bats Summary**

All bats are protected under Georgia state law (Official Code of Georgia § 27-1-28), and some species have additional protections under the federal Endangered Species Act of 1973. Bridges and culverts are often potential bat roosting locations and forested areas can serve as roosting and foraging habitats for bat species. Signs of bat roosts include visual, audible and olfactory identification, presence of guano, or staining from guano or body oils. A survey for potential roosting and foraging habitat was conducted throughout the project corridor.

Survey date/bridge inspection date (if different):	2/23/2021
Are roosting structures present within survey area?	No
Was suitable roosting or foraging habitat identified within survey area?	Roosting: No Foraging: No
Was evidence of bat roosting identified within survey area?	No
If “yes”, describe location of bat roost(s):	N/A
Were bats identified within the survey area?	No
Protective measures:	N/A

Key: *Not Applicable (N/A)*

**Table 14. State Waters Summary**

State Waters are defined by the Official Code of Georgia 12-7-1 and protected by the Georgia Erosion and Sedimentation Control Act of 1975. All jurisdictional waters of the U.S. are also state waters. A site visit with a representative from the Georgia Environmental Protection Division (EPD) was conducted on March 12, 2021, to determine the buffered status of selected features within the survey area. A State Water Determination letter was received from EPD on March 15, 2021 (Appendix A).

<b>Resource Name:</b>	<b>Location:</b>	<b>Description:</b>
NBSW A	West of SR 3/US 19, north of Putnam Street (STA 114+50 to 115+50 LT)	Roadside ditch with a poorly defined channel, no wretched vegetation, and no base flow
NBSW B	East of SR 3/US 19, between the roadway and the CSX railroad (STA 111+85 to STA 114+30 RT)	Roadside ditch with a poorly defined channel, standing pools of water, and no wretched vegetation
NBSW C	South of SR 32/Main Street, east of Courthouse Avenue (STA 71+00 to STA 72+00 LT)	Roadside ditch with a poorly defined channel, small pools of water, no baseflow, and no wretched vegetation

*Key: Non-Buffered State Water (NBSW)*

**Table 15. State Buffers Summary**

In compliance with the National Pollutants Discharge Elimination System (NPDES) permit under Section 402 of the Clean Water Act, any encroachment within the designated 25-foot or 50-foot buffer of a state water will be described, and the need for a variance will be indicated.

<b>Resource Name</b>	<b>EPD-Regulated Buffer Size</b>	<b>Buffer Dimensions</b>	<b>Dominant Species</b>	<b>Buffer Impact</b>	<b>Exempt Impacts</b>	<b>Non-Exempt Impacts</b>	<b>BV Required</b>
PS 1 Buffer	25 ft.	5-10 ft. along western bank, >100 ft. along eastern bank	Bermuda grass, Bahia grass, water oak	No	No	None	No

*Key: Perennial Stream (PS)*

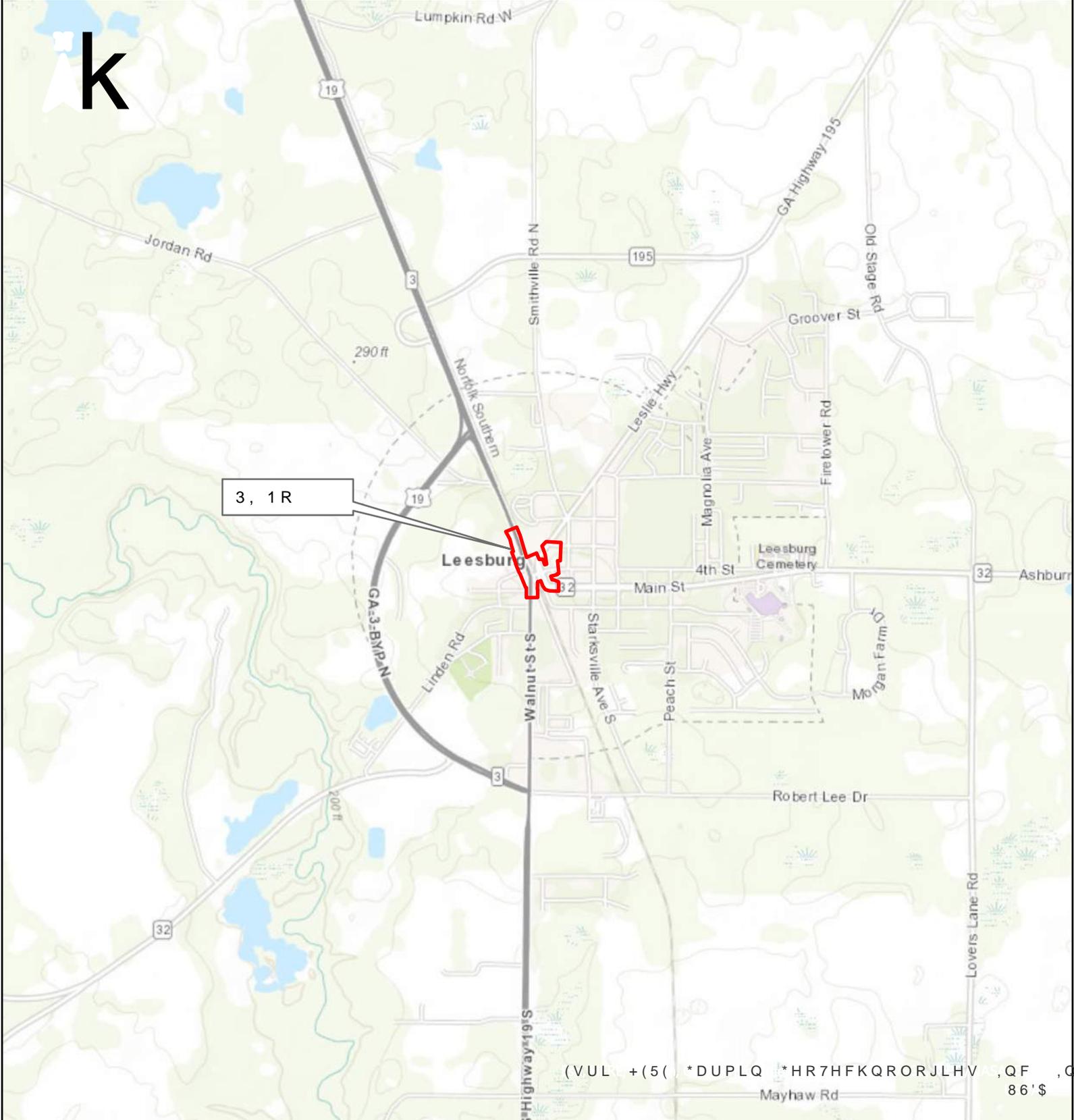
**B. Avoidance and Minimization of State Resource Impacts**

No evidence of state protected bats or suitable habitat for state protected species was observed in the survey area. One buffered state water, PS 1, is located in the survey area. The stream and its buffer are outside of project limits and would be protected by orange barrier fencing to prevent incidental encroachment during construction. A recorded occurrence of the Barbour's map turtle is located in the proposed project's action area. It is unlikely that construction noise or lighting would impact this aquatic species. Standard erosion control BMPs would be established along the perimeter of the project area, limiting runoff from disturbed soil, excavation spoil, or chemical contaminants associated with construction of the proposed project from impacting the occurrence of the species. An avoidance and minimization meeting was held on June 30, 2022; meeting minutes are included in Appendix B.

## V. Figures

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GDOT PI No. 0015404  
Lee County



3, 1R

Leesburg

Leesburg Cemetery

Morgan Farm

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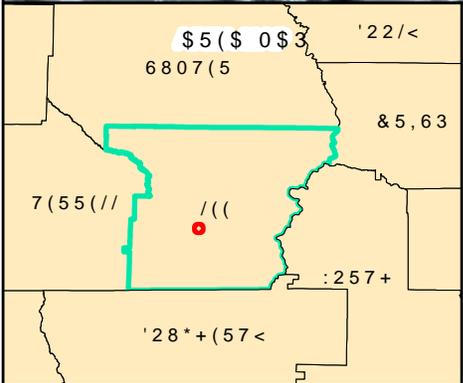
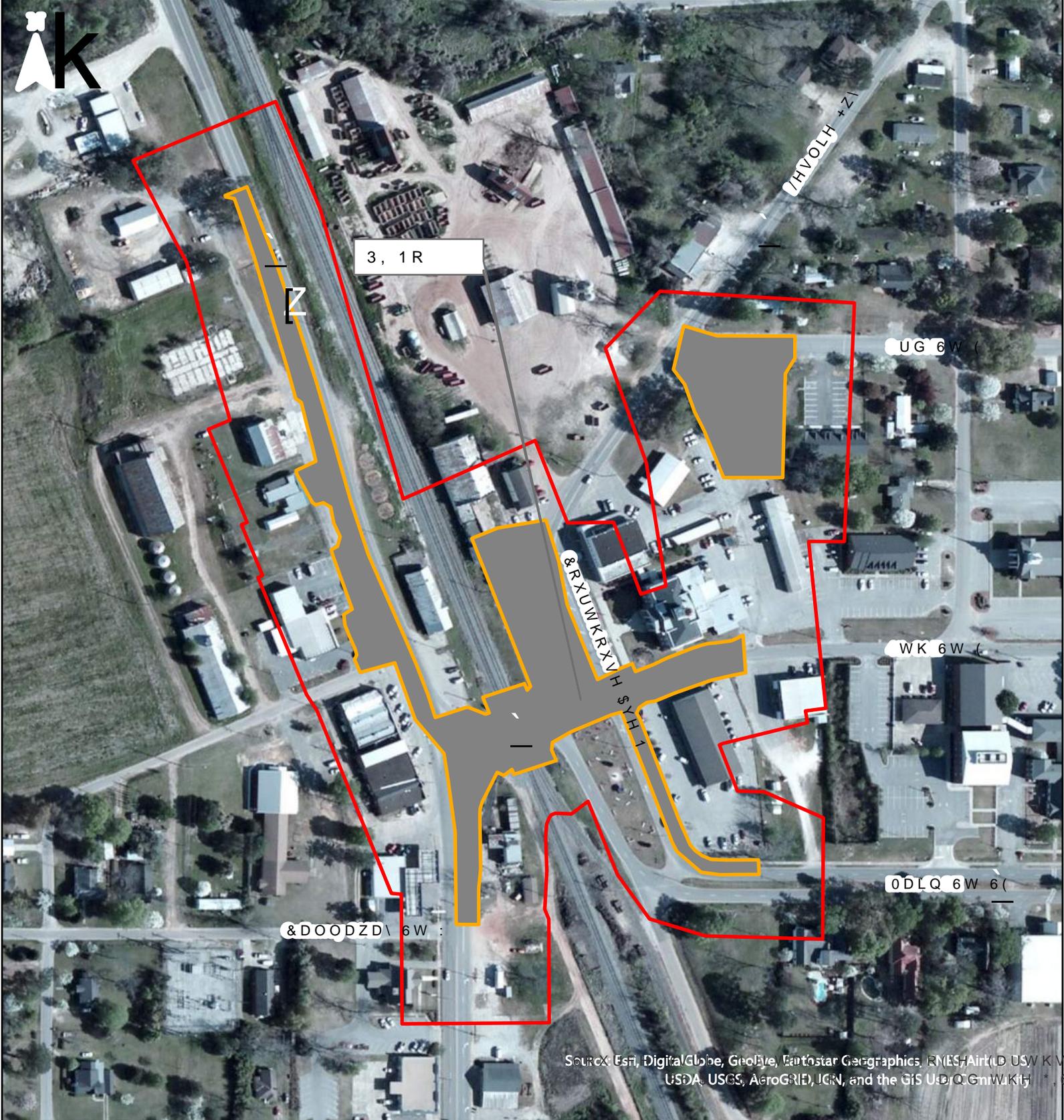
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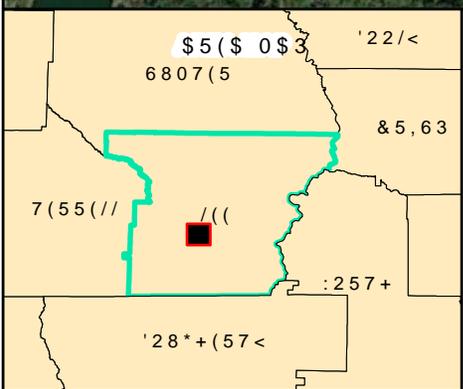
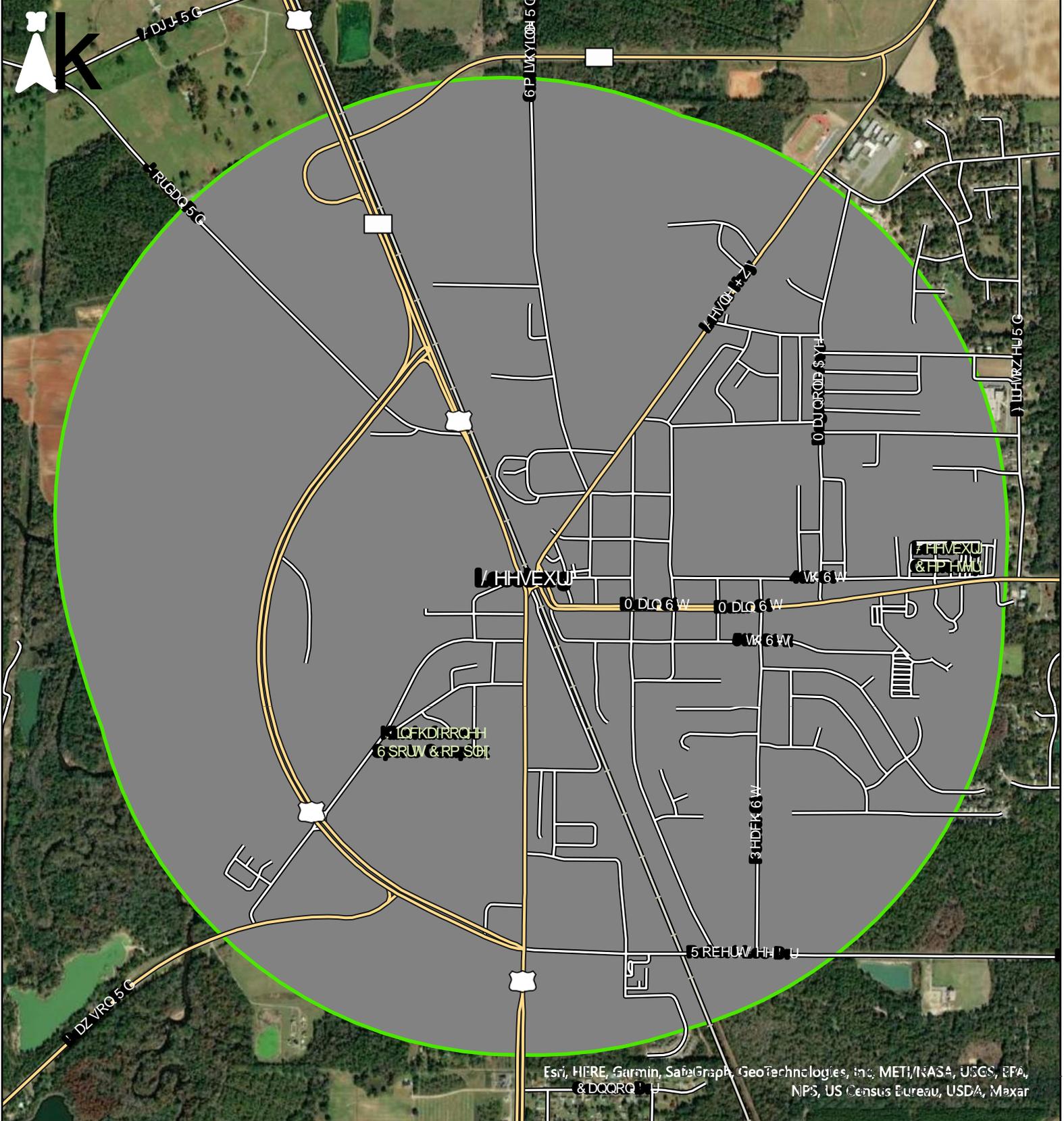
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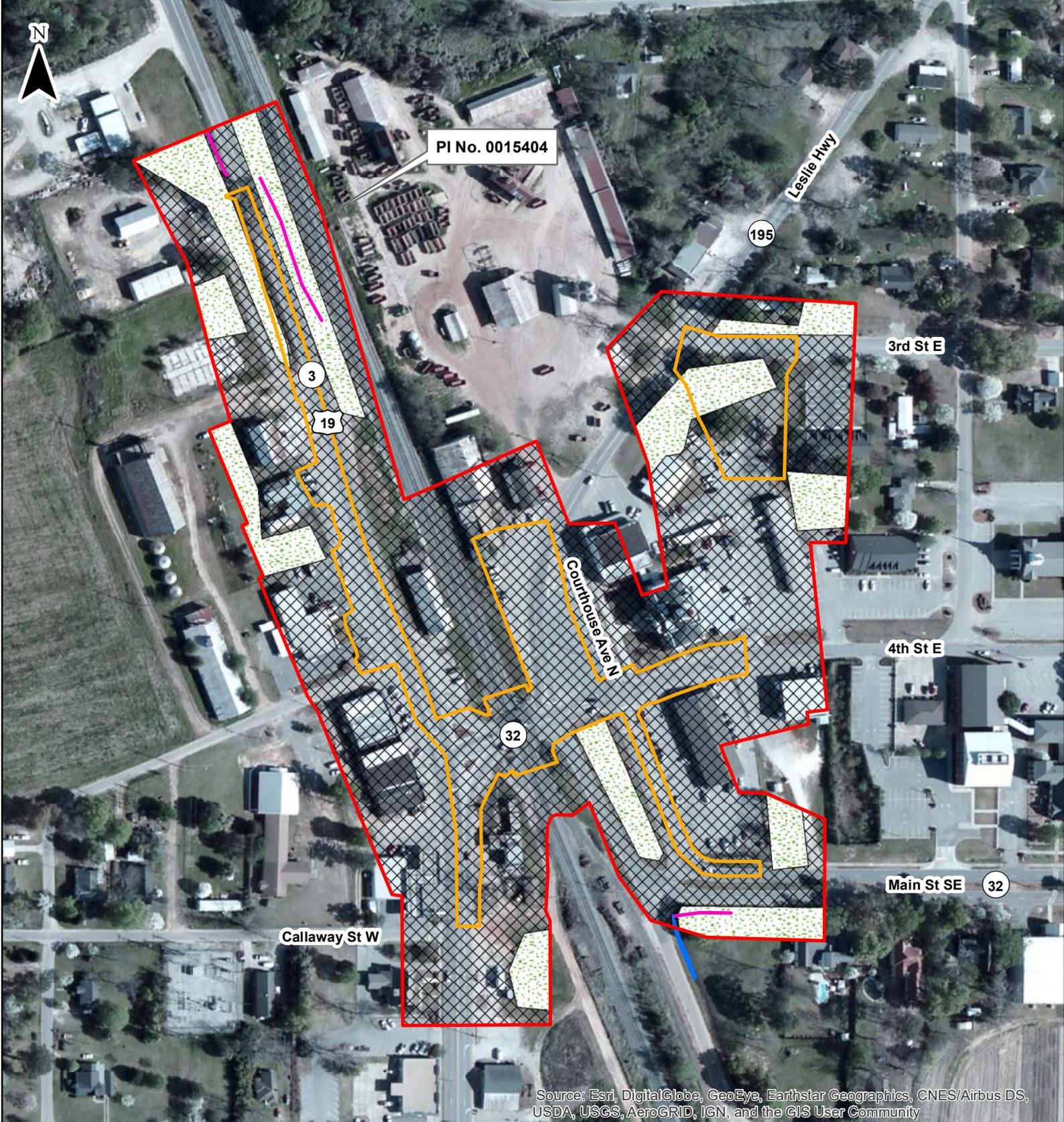
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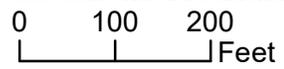


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**Legend**

- Survey Area
- Project Area
- Perennial Stream
- Non-Buffered State Water
- Developed Habitat
- Maintained Habitat



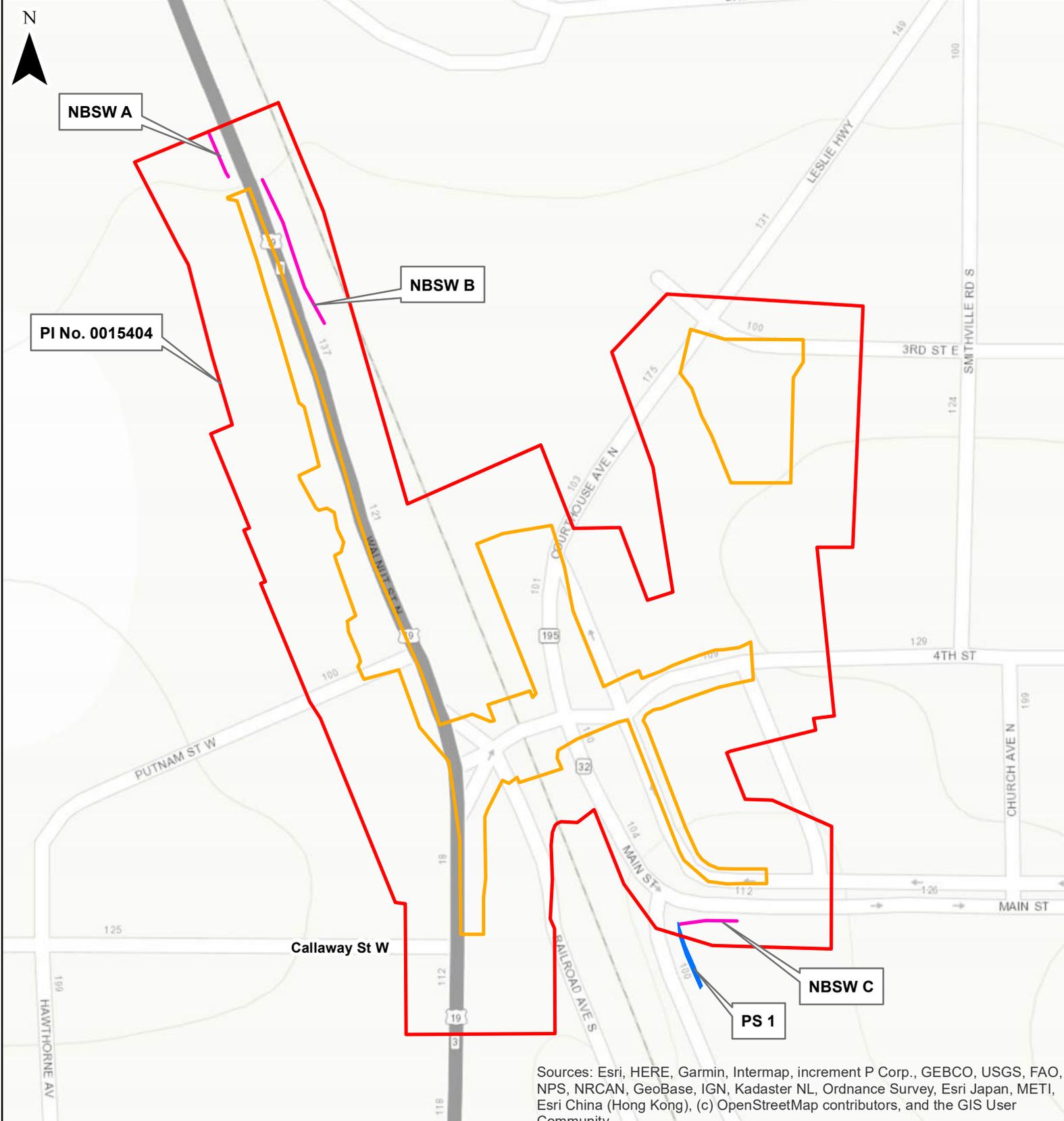
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**Figure 4: Habitat Map**

PI No. 0015404  
 Lee County, Georgia  
 SR 3/US 19 @ SR 32



No protected species habitat. Figure 5 not included.



NBSWA

NBSW B

PI No. 0015404

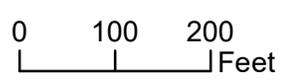
NBSW C

PS 1

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



- Legend**
- Survey Area
  - Project Area
  - Perennial Stream
  - Non-Buffered State Water

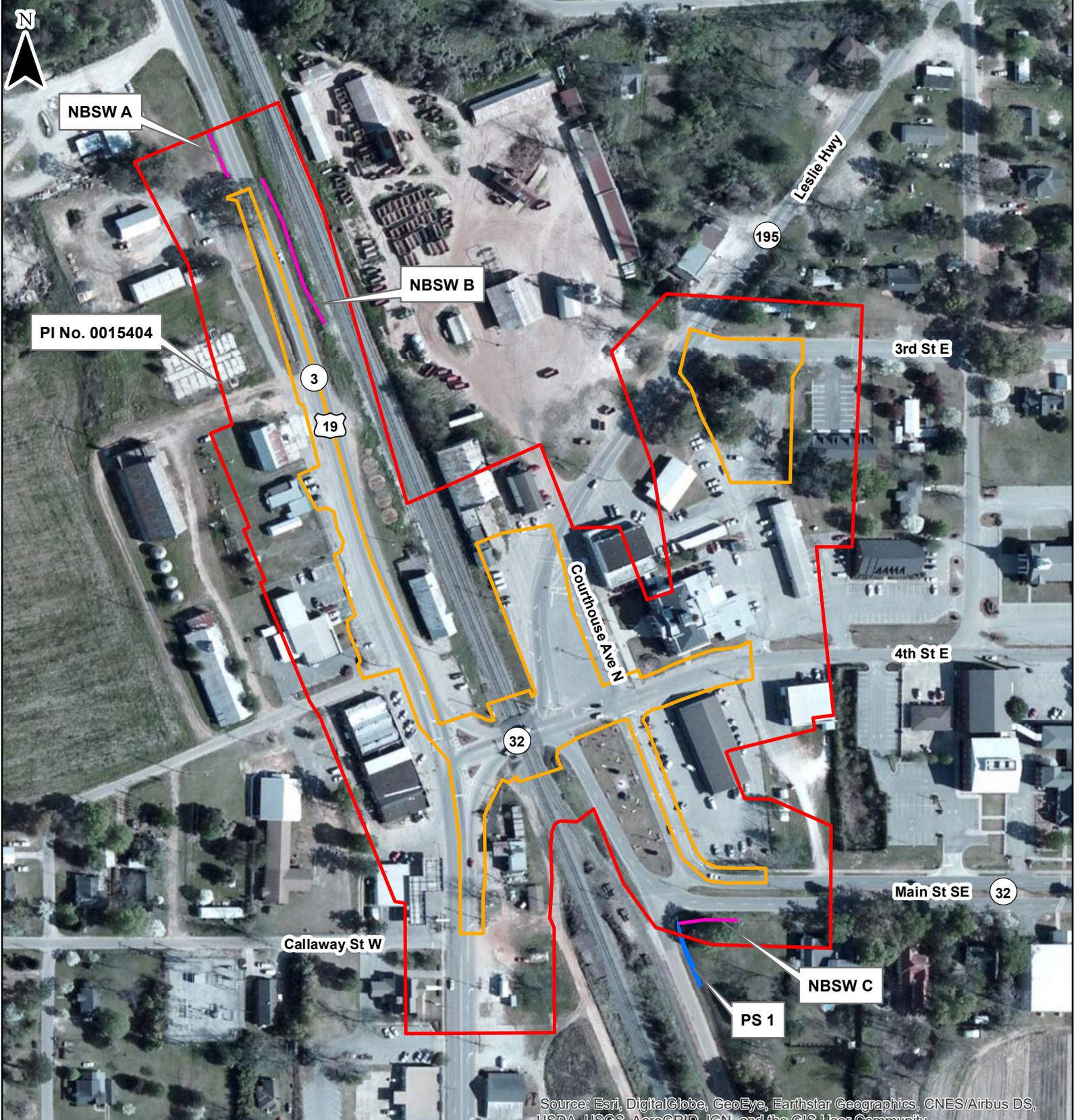


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**Figure 6: State and Federal Waters Map (Topo)**

PI No. 0015404  
 Lee County, Georgia  
 SR 3/US 19 @ SR 32



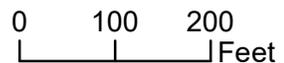


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**Legend**

- Survey Area
- Project Area
- Perennial Stream
- Non-Buffered State Water

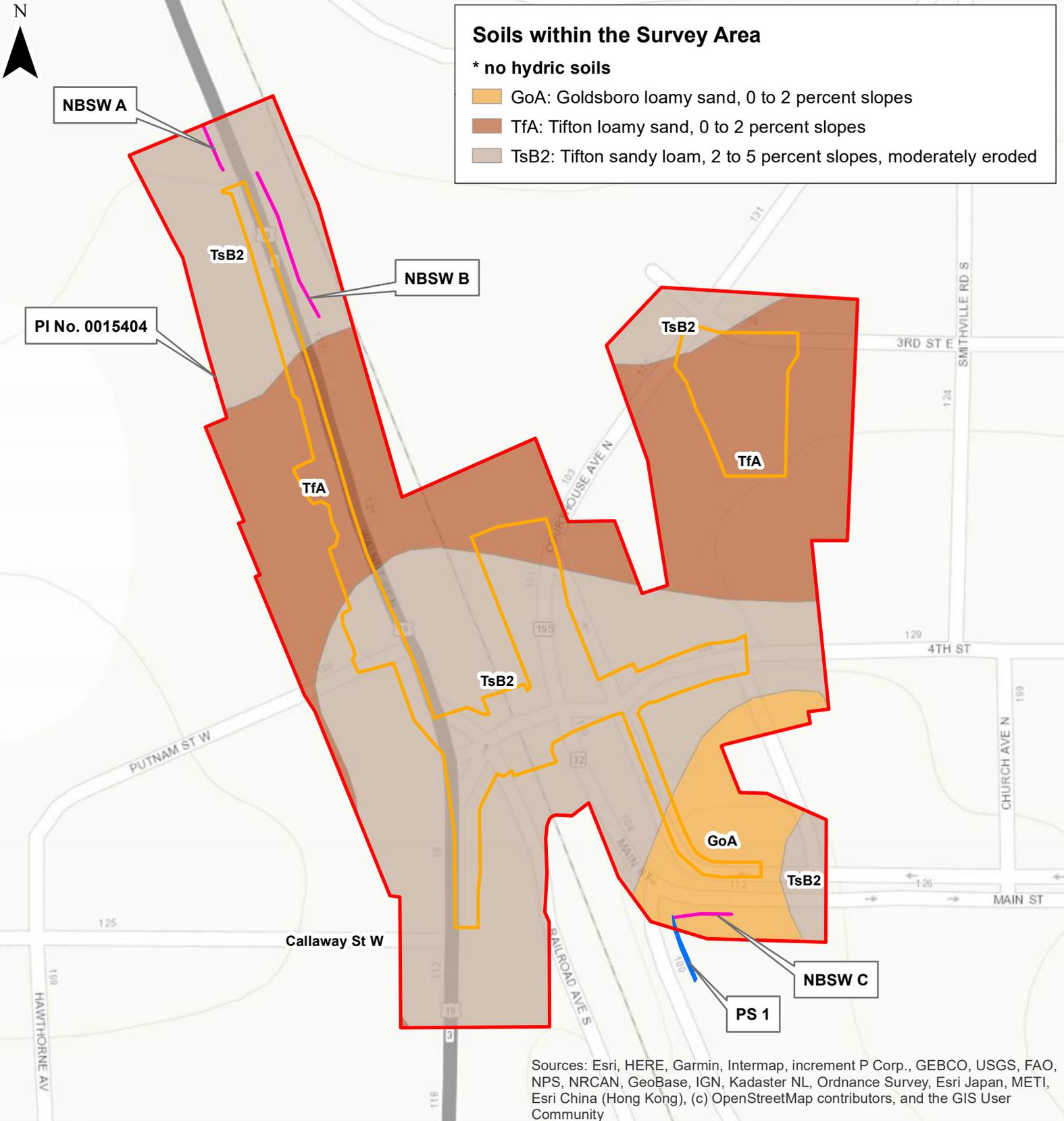


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**Figure 7: State and Federal Waters Map (Aerial)**

PI No. 0015404  
 Lee County, Georgia  
 SR 3/US 19 @ SR 32

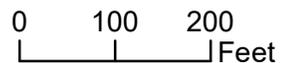




Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



- Legend**
- Survey Area
  - Project Area
  - Perennial Stream
  - Non-Buffered State Water



1:2,400

**Figure 8: Soils Map**

PI No. 0015404  
Lee County, Georgia  
SR 3/US 19 @ SR 32



## **VI. Photographs**

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GDOT PI No. 0015404  
Lee County



**Photo 1.** PS 1, looking south and downstream. Photo taken 2/23/2021.



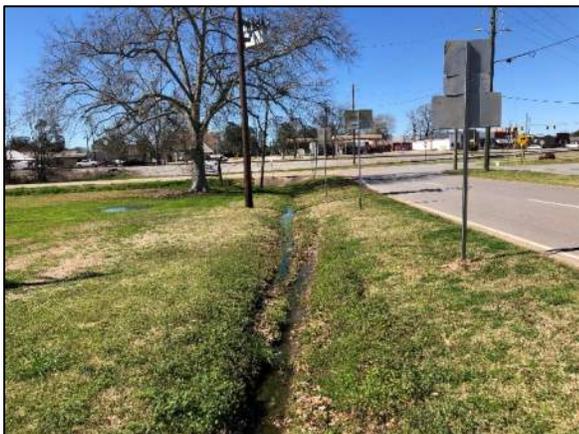
**Photo 2.** PS 1, looking towards its origin at 18" RCP. Photo taken 2/23/2021.



**Photo 3.** NBSW A, looking north. Photo taken 2/23/2021.



**Photo 4.** NBSW B, looking south. Photo taken 2/23/2021.



**Photo 5.** NBSW C, looking west. Photo taken 2/23/2021.



**Photo 6.** Representative photo of maintained habitat. Photo taken 2/23/2021.



**Photo 7.** Representative photo of developed habitat. Photo taken 2/23/2021.

# Appendix A: Agency Coordination

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GDOT PI No. 0015404  
Lee County



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Georgia Ecological Services Field Office  
355 East Hancock Avenue  
Room 320  
Athens, GA 30601-2523  
Phone: (706) 613-9493 Fax: (706) 613-6059

In Reply Refer To:

October 12, 2022

Project Code: 2022-0073030

Project Name: GDOT PI No. 0015404 - SR 3/US 19 @ SR 32

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act (MBTA) as amended (16 USC 701-715), Fish and Wildlife Coordination Act (FWCA) (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and the Bald and Golden Eagle Protection Act (BGEPA) as amended (16 USC 668-668c). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area and to recommend some conservation measures that can be included in your project design if you determine those species or designated critical habitat may be affected by your proposed project.

### **FEDERALLY-LISTED SPECIES AND DESIGNATED CRITICAL HABITAT**

Attached is a list of endangered, threatened, and proposed species that may occur in your project area. Your project area may not necessarily include all or any of these species. Under the ESA, it is the responsibility of the Federal action agency, project proponent, or their designated representative to determine if a proposed action "may affect" endangered, threatened, or proposed species, or designated critical habitat, and if so, to consult with the Service further. Similarly, it is the responsibility of the Federal action agency or project proponent, not the Service, to make "no effect" determinations. If you determine that your proposed action will have "no effect" on threatened or endangered species or their respective critical habitat, you do not need to seek concurrence with the Service. Nevertheless, it is a violation of Federal law to harm or harass any federally listed threatened or endangered fish or wildlife species without the appropriate permit. If you need additional information to assist in your effect determination, please contact the Service.

If you determine that your proposed action may affect federally listed species, please consult with the Service. Through the consultation process, we will analyze information contained in a biological assessment or equivalent document that you provide. If your proposed action is associated with Federal funding or permitting, consultation will occur with the Federal agency under section 7(a)(2) of the ESA. Otherwise, an incidental take permit pursuant to section 10(a)(1)(B) of the ESA (also known as a Habitat Conservation Plan) may be necessary to exempt harm or harass federally listed threatened or endangered fish or wildlife species. For more information regarding formal consultation and HCPs, please see the Service's [Section 7 Consultation Library](#) and [Habitat Conservation Plans Library](#) Collections.

**Action Area.** The scope of federally listed species compliance not only includes direct effects, but also any indirect effects of project activities (e.g., equipment staging areas, offsite borrow material areas, or utility relocations). The action area is the spatial extent of an action's direct and indirect modifications or impacts to the land, water, or air (50 CFR 402.02). Large projects may have effects to land, water, or air outside the immediate footprint of the project, and these areas should be included as part of the action area. Effects to land, water, or air outside of a project footprint could include things like lighting, dust, smoke, and noise. To obtain a complete list of species, the action area should be uploaded or drawn in IPaC rather than just the project footprint.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. An updated list may be requested through IPaC.

If you determine that your action may affect any federally listed species and would like technical assistance from our office, please send us a complete project review package (refer to Georgia Ecological Services' [Project Planning and Review](#) page for more details), including the following information (reference to these items can be found in 50 CFR§402.13 and 402.14):

1. A description of the proposed action, including any measures intended to avoid, minimize, or offset effects of the action. Consistent with the nature and scope of the proposed action, the description shall provide sufficient detail to assess the effects of the action on listed species and critical habitat, including:
    - The purpose of the action;
    - The duration and timing of the action;
    - The location of the action;
    - The specific components of the action and how they will be carried out;
    - Description of areas to be affected directly or indirectly by the action;
    - Maps, drawings, blueprints, or similar schematics of the action
  2. An updated Official Species List
-

3. Biological Assessments (may include habitat assessments and information on the presence of listed species in the action area);
4. Description of effects of the action on species in the action area and, if relevant, effect determinations for species and critical habitat;
5. Conservation measures and any other available information related to the nature and scope of the proposed action relevant to its effects on listed species or designated critical habitat (examples include: stormwater plans, management plans, erosion and sediment plans). Please see our [Georgia Planning and Consultation Tools](#) page for recommendations.

**Please submit all consultation documents via email to [gaes\\_assistance@fws.gov](mailto:gaes_assistance@fws.gov) or by using IPaC, uploaded documents, and sharing the project with a specific Georgia Ecological Services staff member. If the project is on-going, documents can also be sent to the Georgia Ecological Services staff member currently working with you on your project. For Georgia Department of Transportation related projects, please work with the Office of Environmental Services ecologist to determine the appropriate USFWS transportation liaison.**

## **WETLANDS AND FLOODPLAINS**

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value. We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's [NWI program website](#) (<https://www.fws.gov/program/national-wetlands-inventory>) integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

## **MIGRATORY BIRDS**

The MBTA prohibits the taking of migratory birds, nests, and eggs, except as permitted by the Service's [Migratory Birds Program](#) (<https://fws.gov/program/migratory-birds>). To minimize the likelihood of adverse impacts to migratory birds, we recommend construction activities occur outside the general bird nesting season from March through August, or that areas proposed for construction during the nesting season be surveyed, and when occupied, avoided until the young have fledged.

We recommend review of Birds of Conservation Concern to fully evaluate the effects to the birds at your site. This list identifies birds that are potentially threatened by disturbance and construction. It can be found at the Service's [Migratory Birds Conservation Library Collection](#) (<https://fws.gov/library/collections/migratory-bird-conservation-documents>).

Information related to best practices and migratory birds can be found at the Service's [Avoiding and Minimizing Incidental Take of Migratory Birds Library Collection](#) (<https://fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>).

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## **BALD AND GOLDEN EAGLES**

The bald eagle (*Haliaeetus leucocephalus*) was delisted under the ESA on August 9, 2007. Both the bald eagle and golden eagle (*Aquila chrysaetos*) are still protected under the MBTA and BGEPA. The BGEPA affords both eagles protection in addition to that provided by the MBTA, in particular, by making it unlawful to “disturb” eagles. Under the BGEPA, the Service may issue limited permits to incidentally “take” eagles (e.g., injury, interfering with normal breeding, feeding, or sheltering behavior nest abandonment). For information on bald and golden eagle management guidelines, we recommend you review information provided at the Service's [Bald and Golden Eagle Management Library Collection](https://fws.gov/library/collections/bald-and-golden-eagle-management) (<https://fws.gov/library/collections/bald-and-golden-eagle-management>).

## **NATIVE BATS**

If your species list includes Indiana bat (*Myotis sodalis*) or northern long-eared bat (*M. septentrionalis*) and the project is expected to impact forested habitat that is appropriate for maternity colonies of these species, forest clearing should occur outside of the period when bats may be present. Federally listed bats could be actively present in forested landscapes from April 1 to October 15 of any year and have non-volant pups from May 15 to July 31 in any year. Non-volant pups are incapable of flight and are vulnerable to disturbance during that time.

Indiana, northern long-eared, and gray (*M. grisescens*) bats are all known to utilize bridges and culverts in Georgia. If your project includes maintenance, construction, or any other modification or demolition to transportation structures, a qualified individual should complete a survey of these structures for bats and submit your findings via the Georgia Bats in Bridges cell phone application, free on Apple and Android devices. Please include these findings in any biological assessment(s) or other documentation that is submitted to our office for technical assistance or consultation.

Additional information on bat avoidance and minimization can be found at Georgia Ecological Services' [Planning and Consultations Tools](#) and [Bat Conservation in Georgia](#) pages.

## **MONARCH BUTTERFLY**

On December 20, 2020, the Service determined that listing the Monarch butterfly (*Danaus plexippus*) under the Endangered Species Act is warranted but precluded at this time by higher priority listing actions. With this finding, the monarch butterfly becomes a candidate for listing. The Service will review its status each year until we are able to begin developing a proposal to list the monarch.

As it is a candidate for listing, the Service welcomes conservation measures for this species. Recommended, and voluntary, conservation measures for projects in Georgia can be found at our [Monarch Conservation in Georgia](#) page.

## **STATE AGENCY COORDINATION**

Additional information that addresses at-risk or high priority natural resources can be found in the State Wildlife Action Plan (<https://georgiawildlife.com/WildlifeActionPlan>), at Georgia Department of Natural Resources, Wildlife Resources Division Biodiversity Portal (<https://>

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georgiawildlife.com/conservation/species-of-concern), Georgia's Natural, Archaeological, and Historic Resources GIS portal (<https://www.gnahrgis.org/gnahrgis/index.do>), and the [Georgia Ecological Services HUC10 Watershed Guidance](#) page.

Thank you for your concern for endangered and threatened species. We appreciate your efforts to identify and avoid impacts to listed and sensitive species in your project area. For further consultation on your proposed activity, please email [gaes\\_assistance@fws.gov](mailto:gaes_assistance@fws.gov) and reference the project county and your Service Project Tracking Number.

This letter constitutes Georgia Ecological Services' general comments under the authority of the Endangered Species Act.

Attachment(s):

- Official Species List
  - Migratory Birds
  - Wetlands
-

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Georgia Ecological Services Field Office**

355 East Hancock Avenue

Room 320

Athens, GA 30601-2523

(706) 613-9493

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## Project Summary

Project Code: 2022-0073030  
 Project Name: GDOT PI No. 0015404 - SR 3/US 19 @ SR 32  
 Project Type: Road/Hwy - Maintenance/Modification  
 Project Description: The project proposes constructing, new public parking, ADA compliant five-foot-wide sidewalk, curb and gutter, and greenspace in the downtown business district of Leesburg. The existing paved median between the Courthouse Avenue one-way pair travel lanes in front of the Lee County Courthouse would be converted to grass. New public parking is proposed between 3rd Street, Leslie Highway, and the Lee County Probation Office to replace the parking area removed from the paved median in front of the Courthouse. The new five-foot-wide sidewalk with curb and gutter is proposed for:

- The west side of US 19/SR 3 Walnut Avenue from the GDOT Maintenance Facility south to SR 32/4th Street
- The east side of US 19/SR 3/SR 32 Walnut Avenue from just south of Callaway Street to SR 32/4th Street.
- The north side of 4th street from Courthouse Avenue and SR 32/4th street east approximately 160 feet to the courthouse rear parking entrance/exit.
- Along the east side of the northbound lanes of SR 32/Main Street from SR 32/4th Street, continuing east along the north side of SR 32/Main Street to a point approximately 650 feet west of Church Avenue.

The existing travel lane widths would remain as is. The speed limit ranges in the corridor from 35 to 45 miles per hour. No additional right-of-way is currently anticipated for the construction of this project.

### Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@31.7328938,-84.1722076779939,14z>



Counties: Lee County, Georgia

## Endangered Species Act Species

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Birds

NAME	STATUS
Wood Stork <i>Mycteria americana</i> Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8477">https://ecos.fws.gov/ecp/species/8477</a>	Threatened

### Reptiles

NAME	STATUS
Alligator Snapping Turtle <i>Macrochelys temminckii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4658">https://ecos.fws.gov/ecp/species/4658</a>	Proposed Threatened
Eastern Indigo Snake <i>Drymarchon couperi</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/646">https://ecos.fws.gov/ecp/species/646</a>	Threatened
Gopher Tortoise <i>Gopherus polyphemus</i> Population: eastern No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6994">https://ecos.fws.gov/ecp/species/6994</a>	Candidate

## Amphibians

NAME	STATUS
Reticulated Flatwoods Salamander <i>Ambystoma bishopi</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8939">https://ecos.fws.gov/ecp/species/8939</a>	Endangered

## Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## Flowering Plants

NAME	STATUS
Canby's Dropwort <i>Oxypolis canbyi</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7738">https://ecos.fws.gov/ecp/species/7738</a>	Endangered
Relict Trillium <i>Trillium reliquum</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8489">https://ecos.fws.gov/ecp/species/8489</a>	Endangered

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



MARK WILLIAMS  
COMMISSIONER

TED WILL  
DIRECTOR

March 5, 2021

Doug Hart  
Ecologist  
Kimley-Horn  
3930 East Jones Bridge Road  
Suite 350  
Peachtree Corners, GA 30092

**Subject: Known occurrences of natural communities, plants, and animals of highest priority conservation status on or near GDOT P.I. No. 0015404, State Route (SR) 3/US 19 at SR 32, in Lee County, GA**

Dear Doug Hart:

This is in response to your request on February 19, 2021. The following Georgia natural heritage database element occurrences (EOs) were selected for the current site using the local Hydrologic Unit Code (HUC) 10 watershed for elements whose range distribution is limited by aquatic systems and within 3 miles for all other EOs:

**SR 3/US 19 @ SR 32 Point 1 (Site Center: -84.171779, 31.732767, WGS84)**

- Cyclonaias infucata* (Sculptured Pigtoe) 1.1 miles SW of site in Kinchafoonee Creek
- GA *Elliptio purpurella* (Inflated Spike) 1.1 miles SW of site in Kinchafoonee Creek
- GA *Graptemys barbouri* (Barbour's Map Turtle) 0.9 miles SW of site
- US *Hamiota subangulata* (Shinyrayed Pocketbook) 1 miles SW of site in Kinchafoonee Creek
- Micropterus cataractae* (Shoal Bass) [HISTORIC] 5 miles W of site in Kinchafoonee Creek
- US *Pleurobema pyriforme* (Oval Pigtoe) 5.1 miles NW of site in Kinchafoonee Creek
- Somatochlora georgiana* (Coppery Emerald) [HISTORIC] on site**
- Stylurus ivae* (Shining Clubtail) [HISTORIC] on site**
- US *Ambystoma bishopi* (Reticulated Flatwoods Salamander) [HISTORIC] 2.2 miles E of site
- Minuartia godfreyi* (Godfrey's Stitchwort) [HISTORIC] 0.9 miles SW of site
- Oldenlandia boscai* (Bosc's Bluet) [HISTORIC] on site**
- GA *Stewartia malacodendron* (Silky Camellia) [HISTORIC] 3 miles NE of site
- US *Trillium reliquum* (Relict Trillium) [HISTORIC] 2 miles SW of site
- Dungeon Baseball Field 0.2 miles NE of site
- Kinchafoonee Sports Complex 0.2 miles SW of site
- LCRD Gym 0.1 miles E of site
- Lee County Greenspace 0.2 miles E of site
- Lee County Soccer Complex 0.1 miles E of site

Mossy Dell Reg Park 3 miles E of site  
Park St. Complex 0.5 miles S of site  
**0313000706 Kinchafoonee Creek 1 [SWAP High Priority Watershed] on site**

### **Recommendations:**

Federally listed species have been documented within three miles or within the watershed(s) of the proposed project. To minimize potential impacts to federally listed species, we recommend consultation with the United States Fish and Wildlife Service. Please refer to the Districts and Agency Contacts map available on the GDOT Ecology webpage to determine the appropriate contact. The contacts include: Meg Hedeem ([meghan.hedeem@fws.gov](mailto:meghan.hedeem@fws.gov)), Eric Prowell ([Eric.Prowell@fws.gov](mailto:Eric.Prowell@fws.gov)), Peter Maholland ([Peter.Maholland@fws.gov](mailto:Peter.Maholland@fws.gov)), or Chris Coppola ([Christopher.Coppola@fws.gov](mailto:Christopher.Coppola@fws.gov)).

Please be aware that state protected species have been documented near the proposed project. For information about these species, including survey recommendations, please visit our webpage at <http://georgiawildlife.com/conservation/species-of-concern#rare-locations>. Please refer to the State of Georgia Protected Species Habitat & Presence/Absence Survey Methodologies Manual available on the GDOT Ecology webpage for further survey guidance. Surveys for species of conservation concern should be conducted prior to commencement of construction.

We have the following recommendations for the applicant to consider. We are concerned about streams and other habitats that could be impacted by the proposed project. We recommend that stringent erosion control practices be used during construction activities and that vegetation is re-established on disturbed areas as quickly as possible. Silt fences and other erosion control devices should be inspected and maintained until soil is stabilized by vegetation. Please use natural vegetation and grading techniques (e.g. vegetated swales, turn-offs, vegetated buffer strips) that will ensure that the project site does not serve as a conduit for storm water or pollutants into the watershed during or after construction. We are glad to see sidewalk construction, which will facilitate pedestrian use and reduce overall traffic. Please use best management practices during construction and there should be minimal impact on the surrounding environment. Please consider constructing parking lots of porous asphalt, which can have economic and environmental benefits by aiding in storm-water management. These measures will help protect water quality near the project as well as in downstream areas.

This project occurs within a high priority watershed(s). As part of Georgia's State Wildlife Action Plan, high priority watersheds were identified to protect populations of high priority aquatic species, important coastal habitats, and migratory corridors for anadromous species. Please refer to Appendix F of Georgia's State Wildlife Action Plan to find out more specific information about the listed high priority watershed(s) (<https://georgiawildlife.com/wildlifeactionplan>).

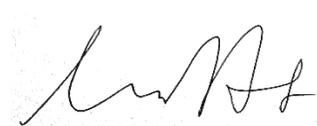
### **Disclaimer:**

Please keep in mind the limitations of our database. The data collected by the Wildlife Conservation Section comes from a variety of sources, including museum and herbarium records, literature, and reports from individuals and organizations, as well as field surveys by our staff

biologists. In most cases the information is not the result of a recent on-site survey by our staff. Many areas of Georgia have never been surveyed thoroughly. Therefore, the Wildlife Conservation Section can only occasionally provide definitive information on the presence or absence of rare species on a given site. Our files are updated constantly as new information is received. **Thus, information provided by our program represents the existing data in our files at the time of the request and should not be considered a final statement on the species or area under consideration.**

If you know of populations of highest priority species that are not in our database, please fill out the appropriate data collection form and send it to our office. Forms can be obtained through our website (<http://georgiawildlife.com/conservation/species-of-concern#rare-locations>) or by contacting our office. If we can be of further assistance, please let us know.

Sincerely,



Maggie Aduddell Hunt, Wildlife Biologist  
[maggie.hunt@dnr.ga.gov](mailto:maggie.hunt@dnr.ga.gov), (706) 557-3228

#### **Data Available on the Wildlife Conservation Section Website**

- Georgia protected plant and animal species profiles are available on our website. These profiles cover basics such as species physical descriptions, preferred habitat, and life history, as well as threats, management recommendations, and conservation status. To view these profiles, visit: <http://georgiawildlife.com/conservation/species-of-concern#rare-locations>
- Rare species and natural community information can be viewed by Quarter Quad, County, and HUC 8 Watershed. To access this information, please visit our GA Rare Species and Natural Community Information page at: <http://georgiabiodiversity.org/>
- Downloadable files of rare species and natural community data by Quarter Quad and County are also available. These can be downloaded at: <http://georgiabiodiversity.org/natels/natural-element-locations.html>

HUC 10 Code   
HUC 10 Name

Counties in this HUC10 Watershed

HUC10_code	County
0313000706	Terrell
0313000706	Lee
0313000706	Dougherty

Listed and At-Risk Species in this HUC10 Watershed

Common Name	Species	Ga Status	Fed Status	Survey Recommendations
Federal Listing Status: <input type="text" value="U.S. Endangered or Threatened Species"/>				
Shinyrayed Pocketbook	<i>Hamiota subangulata</i>	E	LE	Survey period: year round, when water temperatures are above 10° C and excluding when stage is increasing or above normal.
Canby Dropwort	<i>Oxypolis canbyi</i>	E	LE	Survey period: 1 Jul - 30 Sep.
Oval Pigtoe	<i>Pleurobema pyriforme</i>	E	LE	Survey period: year round, when water temperatures are above 10° C and excluding when stage is increasing or above normal.
Relict Trillium	<i>Trillium reliquum</i>	E	LE	Survey period: flowering 15 Mar - 30 Apr. Use of a nearby reference site to more accurately determine local flowering period is recommended.
Federal Listing Status: <input type="text" value="U.S. Candidate Species"/>				
Gopher Tortoise	<i>Gopherus polyphemus</i>	T	C	Survey period: year round.
Federal Listing Status: <input type="text" value="No U.S. Status in Georgia"/>				
Morzenti's Spleenwort	<i>Asplenium heteroresiliens</i>	T		Please consult with GDNR for survey efforts.
Cream-flowered Tick-trefoil	<i>Desmodium ochroleucum</i>	T		Please consult with GDNR for survey efforts.
Inflated Spike	<i>Elliptio purpurella</i>	T		Please consult with GDNR for survey efforts.
Barbour's Map Turtle	<i>Graptemys barbouri</i>	T		Please consult with GDNR for survey efforts.
Southern Hognose Snake	<i>Heterodon simus</i>	T		Please consult with GDNR for survey efforts.
Corkwood	<i>Leitneria floridana</i>	T		Please consult with GDNR for survey efforts.
Hooded Pitcherplant	<i>Sarracenia minor var. minor</i>	U		Please consult with GDNR for survey efforts.
Fed Status Key: LE = listed endangered, LT = listed threatened, PE/PT = proposed as endangered or threatened, C = candidate species, SAE/SAT = listed as endangered or threatened because of similarity of appearance.				
Ga Status Key: E = endangered, T = threatened, R = rare, U = unusual				
<a href="#">About Georgia Biodiversity Conservation Data</a>				



ENVIRONMENTAL PROTECTION DIVISION

**Richard E. Dunn, Director**

**Watershed Protection Branch**

2 Martin Luther King, Jr. Drive  
Suite 1152, East Tower  
Atlanta, Georgia 30334  
404-463-1511

March 15, 2021

Mr. Eric Duff  
Georgia Department of Transportation  
Office of Environmental Services  
600 W. Peachtree Street, NW, 16th Floor  
Atlanta, Georgia 30308  
**Attention: Ryan Pawlikowski**

Re: State Waters Determination  
GDOT PI #0015404  
Lee County

Dear Mr. Duff:

A site visit was conducted on March 12, 2021 by the Georgia Environmental Protection Division (EPD) at the request of Doug Hart (Kimley-Horn) to determine if state waters that require an undisturbed buffer were present. Based upon the site inspection by Dewey Richardson (EPD), the EPD has determined the following:

- (1) State water identified as NBSW A, does not exhibit evidence of being at least an intermittent water of the State. The feature has a poorly defined channel (roadside ditch). The feature does not exhibit evidence of a base flow or a clear point of wretched vegetation. As a result, the EPD has determined the feature **is not** subject to state-mandated buffer requirements.
- (2) State water identified as NBSW B, does not exhibit evidence of being at least an intermittent water of the State. The feature has a poorly defined channel (roadside ditch) and standing pools of water due to saturation/inundation. The feature does not exhibit evidence of a clear point of wretched vegetation. The feature has wetland vegetation in the channel. As a result, the EPD has determined the feature **is not** subject to state-mandated buffer requirements.
- (3) State water identified as NBSW C, does not exhibit evidence of being at least an intermittent water of the State. The feature does not exhibit evidence of a continuous bed and bank, base flow or a clear point of wretched vegetation. The feature has small pools of water due to saturation/inundation. As a result, the EPD has determined the feature **is not** subject to state-mandated buffer requirements.

The EPD reserves the right to change this determination if additional information is obtained during a later site inspection or if site conditions have changed.

Mr. Eric Duff  
March 15, 2021  
Page 2

This letter does not relieve you from obtaining any other permits that would be required by any other local, state, or federal agency.

If additional information is required, please do not hesitate to contact me at (478) 283-8342.

Sincerely,

A handwritten signature in blue ink that reads "Dewey Richardson". The signature is written in a cursive style with a large initial 'D'.

Dewey Richardson  
Environmental Specialist  
Erosion and Sedimentation Control Unit

cc: Michael Berry  
Tom Fowler  
Daryl Williams  
Doug Hart

# Appendix B: Background and Survey Data

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GDOT PI No. 0015404

Lee County

**North Carolina Division of Water Quality - Stream Identification Form, Version 4.11**

Date: 2/23/2021	Project/Site: GDOT PI No. 0015404	Latitude: 31.731373
Evaluator: DH	County: Lee	Longitude: -84.171057
<b>Total Points:</b> 30.5 Stream is at least intermittent if $\geq 19$ or perennial if $\geq 30$	Stream Determination (circle one) Ephemeral Intermittent <del>Perennial</del>	<b>Stream # PS 1</b>

A. Geomorphology Subtotal = 15.5

	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	2
2. Sinuosity of channel along thalweg	0	1	2	3	1
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	2
4. Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	1
6. Depositional bars or benches	0	1	2	3	3
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel	No = 0		Yes = 3		3

<sup>a</sup>artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal = 7

12. Presence of Baseflow	0	1	2	3	2
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaf litter	1.5	1	0.5	0	1.5
15. Sediment on plants or debris	0	0.5	1	1.5	0.5
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

C. Biology Subtotal = 8

18. Fibrous roots in streambed	3	2	1	0	3
19. Rooted upland plants in streambed	3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	1
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	1
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				0

\*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

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**North Carolina Division of Water Quality - Stream Identification Form, Version 4.11**

Date: 2/23/2021	Project/Site: GDOT PI No. 0015404	Latitude: 31.734583
Evaluator: DH	County: Lee	Longitude: -84.173313
<b>Total Points:</b> 8	Stream Determination (circle one) Ephemeral Intermittent Perennial	<b>Stream # NBSW A</b>
Stream is at least intermittent if $\geq 19$ or perennial if $\geq 30$		

A. Geomorphology Subtotal = 2.5

	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	1
2. Sinuosity of channel along thalweg	0	1	2	3	0
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel	No = 0		Yes = 3		0

<sup>a</sup>artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal = 2.5

12. Presence of Baseflow	0	1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	1
14. Leaf litter	1.5	1	0.5	0	1
15. Sediment on plants or debris	0	0.5	1	1.5	0.5
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No = 0		Yes = 3		0

C. Biology Subtotal = 3

18. Fibrous roots in streambed	3	2	1	0	1
19. Rooted upland plants in streambed	3	2	1	0	1
20. Macroinvertebrates (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	1
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				0

\*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

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**North Carolina Division of Water Quality - Stream Identification Form, Version 4.11**

Date: 2/23/2021	Project/Site: GDOT PI No. 0015404	Latitude: 31.734083
Evaluator: DH	County: Lee	Longitude: -84.172912
<b>Total Points:</b> 6.5 Stream is at least intermittent if $\geq 19$ or perennial if $\geq 30$	Stream Determination (circle one) <b>Ephemeral</b> Intermittent Perennial	<b>Stream # NBSW B</b>

A. Geomorphology Subtotal = 1.5

	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	1
2. Sinuosity of channel along thalweg	0	1	2	3	0
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	0
4. Particle size of stream substrate	0	1	2	3	0
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	0
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel	No = 0		Yes = 3		0

<sup>a</sup>artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal = 2

12. Presence of Baseflow	0	1	2	3	1
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaf litter	1.5	1	0.5	0	0.5
15. Sediment on plants or debris	0	0.5	1	1.5	0.5
16. Organic debris lines or piles	0	0.5	1	1.5	0
17. Soil-based evidence of high water table?	No = 0		Yes = 3		0

C. Biology Subtotal = 3

18. Fibrous roots in streambed	3	2	1	0	1
19. Rooted upland plants in streambed	3	2	1	0	1
20. Macroinvertebrates (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	1
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				0

\*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

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**North Carolina Division of Water Quality - Stream Identification Form, Version 4.11**

Date: 2/23/2021	Project/Site: GDOT PI No. 0015404	Latitude: 31.731393
Evaluator: DH	County: Lee	Longitude: -84.170835
<b>Total Points:</b> 15 Stream is at least intermittent if $\geq 19$ or perennial if $\geq 30$	Stream Determination (circle one) <b>Ephemera</b> Intermittent Perennial	<b>Stream # NBSW C</b>

A. Geomorphology Subtotal = 4.5

	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	1
2. Sinuosity of channel along thalweg	0	1	2	3	0
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	1
4. Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	0
6. Depositional bars or benches	0	1	2	3	0
7. Recent alluvial deposits	0	1	2	3	1
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	0.5
11. Second or greater order channel	No = 0		Yes = 3		0

<sup>a</sup>artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal = 6

12. Presence of Baseflow	0	1	2	3	0
13. Iron oxidizing bacteria	0	1	2	3	1
14. Leaf litter	1.5	1	0.5	0	1.5
15. Sediment on plants or debris	0	0.5	1	1.5	
16. Organic debris lines or piles	0	0.5	1	1.5	0.5
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

C. Biology Subtotal = 4.5

18. Fibrous roots in streambed	3	2	1	0	2
19. Rooted upland plants in streambed	3	2	1	0	2
20. Macroinvertebrates (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	0.5
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				0

<sup>\*</sup>perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

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**COASTAL PLAIN QUALITATIVE STREAM ASSESSMENT**

Project Name:	GDOT PI No. 0015404		
Impact Reach Name:	Perennial Stream 1		
Stream Type:	Perennial (< 3 Sq. Miles)		
Catchment Size (in Acres):	22.60	Sq. Mi.:	0.04
SAR Center Coordinates:	31.731373, -84.171057		
Date:	8/19/2022		

**Hydrology - 1**

Value	Questions
No	The surface and groundwater hydrology of the assessment reach are free of upstream catchment impairments (e.g., diversions, stormwater management structures, wastewater facilities, agricultural ditches)? (Y/N)
No	Is the contributing drainage basin of the assessment reach at least 50 percent forested? (Y/N)
<b>FUNCTION SCORE</b>	<b>Low</b>

**Hydraulics - 2**

Value	Questions
No	Is the assessment reach connected to it's floodplain at bankfull event? (Y/N)
No	Are there headcuts in the assessment reach? (Y/N)
Yes	Has the assessment reach been previously straightened? (Y/N)
<b>FUNCTION SCORE</b>	<b>Low</b>

**Geomorphology - 3**

Value	Questions
Yes	Does the assessment reach have bedform diversity (i.e., the presence of riffle/pool or step/pool complexes)? (Y/N)
No	Is there high bank erosion present throughout the assessment reach? (Y/N)
No	Is there large woody debris (LWD) in the assessment reach? (Y/N)
No	Is there a woody riparian buffer (i.e., 25 feet in width) adjacent to both sides of the assessment reach? (Y/N)
<b>FUNCTION SCORE</b>	<b>Moderate</b>

**Chemistry - 4**

Value	Questions
No	Is the contributing drainage basin of the assessment reach at least 50 percent of the forested? (Y/N)
No	Is the assessment reach designated as an impaired water on the most recent 303(D)/305(b) list?
<b>FUNCTION SCORE</b>	<b>Moderate</b>

**Biology - 5**

Value	Questions
Yes	Is there habitat diversity in the assessment reach (i.e., at least 3 of the following: riffles, pools, steps, overhangs, leaf packs, woody debris)?
No	Is the contributing drainage basin of the assessment reach at least 50 percent of the forested? (Y/N)
<b>SUM</b>	<b>Moderate</b>

<b>STREAM QUALITATIVE FUNCTIONAL CAPACITY SCORE</b>	<b>Moderate</b>
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**Legend**

- Green Cell = User must manually input information.
- Orange Cells = User must select the index choice from the drop-down list.
- Grey Cells = The calculation of these cells is automated.
- Dark Grey Cells = These cells do not require input. The corresponding index value is populated from the user input to a previous question.

City of Leesburg  
PI 0015404, Lee County  
Leesburg Downtown TAP

Purpose: Avoidance & Minimization Measures Meeting (A3M)  
Date: June 30, 2022 at 11:00am  
Location: Microsoft Teams

Team Introduction:

1. Bob Alexander, city of Leesburg, city manager – [bob.alexander@cityofleesburgga.com](mailto:bob.alexander@cityofleesburgga.com)
2. Matthew Inman, Advanced Engineering Services, consultant with Leesburg - [minman@aesllc.us](mailto:minman@aesllc.us)
3. Mark Lawing, Atlas/OPD, Program Manager – [mlawing2@dot.ga.gov](mailto:mlawing2@dot.ga.gov)
4. Michael Lawing, Atlas, LAP Project Manager – 770-263-5945 or [Michael.s.lawing@oneatlas.com](mailto:Michael.s.lawing@oneatlas.com)
5. Felecia Basolo, Atlas, Project Manager – 770-263-5945 or [felecia.basolo@oneatlas.com](mailto:felecia.basolo@oneatlas.com)
6. April McKown, Atlas, LAP Project Manager – 404-775-0775 or [April.mcdown@oneatlas.com](mailto:April.mcdown@oneatlas.com)
7. Lily Slaughter, Atlas, LAP Project Manager – 404-213-7475 or [lily.slaughter@oneatlas.com](mailto:lily.slaughter@oneatlas.com)
8. Cory Pfau, SEI, Consultant PM – [cpfau@seengineering.com](mailto:cpfau@seengineering.com)
9. Scott Jordan, SEI – [sjordan@seengineering.com](mailto:sjordan@seengineering.com)
10. Jonathan Cassiday, Kimley-Horn, History – [Jonathan.cassiday@kimley-horn.com](mailto:Jonathan.cassiday@kimley-horn.com)
11. Sean Yates, Kimley-Horn, History/NEPA – [sean.yates@kimley-horn.com](mailto:sean.yates@kimley-horn.com)
12. Cassie Mills, GDOT, Archaeology Analyst – [camills@dot.ga.gov](mailto:camills@dot.ga.gov)
13. Bob Boot, GDOT, NEPA Analyst – [rboot@dot.ga.gov](mailto:rboot@dot.ga.gov)
14. Rachel Staley, GDOT, NEPA Analyst – [rstaley@dot.ga.gov](mailto:rstaley@dot.ga.gov)
15. Shu Doi, GDOT, Air & Noise Analyst – [sdoi@dot.ga.gov](mailto:sdoi@dot.ga.gov)

Project Introduction:

This is a Transportation Alternatives Program (TAP) project in which the City of Leesburg is targeting an April 2025 letting. We are currently working toward achieving a Preliminary Field Plan Review (PFPR) by March 2023.

*Proposed Concept:*

The project is an approximately 0.27-mile sidewalk construction project, which proposes new five-foot-wide sidewalk, a brick-stamped concrete buffer, and curb and gutter from:

- The west side of US 19/SR 3 Walnut Avenue from the GDOT Maintenance Facility south to Putnam Street, transitioning the sidewalk to run along the frontage of City Hall.
- The east side of US 19/SR 3/SR 32 Walnut Avenue from just south of Callaway Street to SR 32/4<sup>th</sup> Street.
- The north and south side of SR 32/4<sup>th</sup> Street, from US 19/SR 3/SR 32 Walnut Avenue continuing east across the Central of Georgia Railroad tracks to Fire Avenue.
- Along the east side of the northbound lanes of SR 32/Main Street from SR 32/4<sup>th</sup> Street, continuing east along the north side of SR 32/Main Street to a point approximately 390 feet west of Church Avenue.

Additionally, the existing paved median between the Courthouse Avenue one-way pair travel lanes in front of the Lee County Courthouse would be converted to grass. The existing parking area west of Courthouse Avenue would be converted to grass and landscaped. New public parking is proposed between 3<sup>rd</sup> Street, Leslie Highway, and the Lee County Probation Office to replace the parking area removed from the paved median in front of the Courthouse and existing parking west of Courthouse Avenue, will be included in this project and constructed utilizing a local funding source.

City of Leesburg  
PI 0015404, Lee County  
Leesburg Downtown TAP

*Project Schedule:*

- BL Tech Studies Complete = 02/20/2023
- BL Env Approval Complete [NEPA doc approval] = 08/25/2023
- BL Env Cert for ROW Authorization Complete = 03/05/2024
- ROW Authorization = 04/04/2024
- BL Final Plan Memos Complete = 11/06/2024
- BL 404 Permit/BV Complete and Acquired = 01/05/2025
- BL NEPA Reeval Complete = 01/01/2025
- BL Env Cert for Let Complete = 01/15/2025
- Let = 04/02/2025

Avoidance and Minimization Discussion:

Ecology Resources:

1. Perennial Stream (PS) 1
  - a. South of Main Street; outside of construction limits
  - b. This resource is not anticipated to be affected.

Cultural Resources:

Archaeology:

2. Site 9LE163
3. Site 9LE168
4. Site 9LE169
  - a. These resources are unlikely to be affected as they are all located outside the ESB
  - b. Sean Yates from Kimley-Horn will send ESAs to SEI when they're available

History:

5. Leesburg Downtown Historic District
  - a. This large resource is unlikely to be adversely affected as the majority of the construction activity will be confined to existing ROW
6. Southwestern Railroad
  - a. Required easement within the resource boundary will not constitute an adverse effected based on past experience with similar resources
7. Leesburg Depot
  - a. It appears that the resource boundary needs to be adjusted from GIS data to utilize the survey data; SEI will make revision
  - b. Appears unlikely to be affected
  - c. OBF may be installed during construction to protect the resource
8. Lee County Courthouse
  - a. Sidewalk and curb and gutter to be constructed within the resource boundary
  - b. No contributing features appear to be within the area of the planned construction activities, and therefore, no adverse effect is anticipated
  - c. OBF may be installed during construction to protect the resource

City of Leesburg  
PI 0015404, Lee County  
Leesburg Downtown TAP

*Air and Noise:*

To be completed using post-A3M Preliminary Plans

Other commitments:

- Special Provisions (SP)
  - None anticipated
- Plan notes
  - Add OBF to Leesburg Depot and Lee County Courthouse
- Constructability

Next steps:

- Revised post A3M Construction Plans
- Assessment of Effects (AOE), also known as technical studies
- National Environmental Policy Act (NEPA) documentation

Closing Discussion/Action Items:

- Sean Yates at Kimley-Horn will provide SEI with the archaeology ESAs when they're available, following the Phase I Report approval
- Cory Pfau at SEI will revise the Leesburg Depot resource boundary to correspond with the survey data

# Appendix C: Construction Plans

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GDOT PI No. 0015404

Lee County

# PUBLIC WORKS CITY OF LEESBURG

## PLAN AND PROFILE OF PROPOSED SR 3/US 19 @ SR 32 FEDERAL AID PROJECT



LOCATION SKETCH

**DESIGN DATA:**  
 TRAFFIC A.D.T.: N/A  
 TRAFFIC A.D.T.: N/A  
 TRAFFIC D.H.V.: N/A  
 DIRECTIONAL DIST: N/A  
 % TRUCKS: N/A  
 24 HR. TRUCKS %: N/A  
 SPEED DESIGN: 25 - 35 MPH

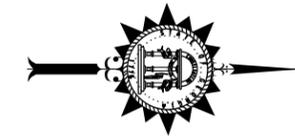
LOCATION & DESIGN  
 APPROVAL DATE: XX/XX/XXXX  
 FUNCTIONAL CLASS:

THIS PROJECT IS 100% IN  
 LEE COUNTY AND IS  
 100% IN CONG. DIST. NO. 2.  
 PROJECT DESIGNATION: EXEMPT

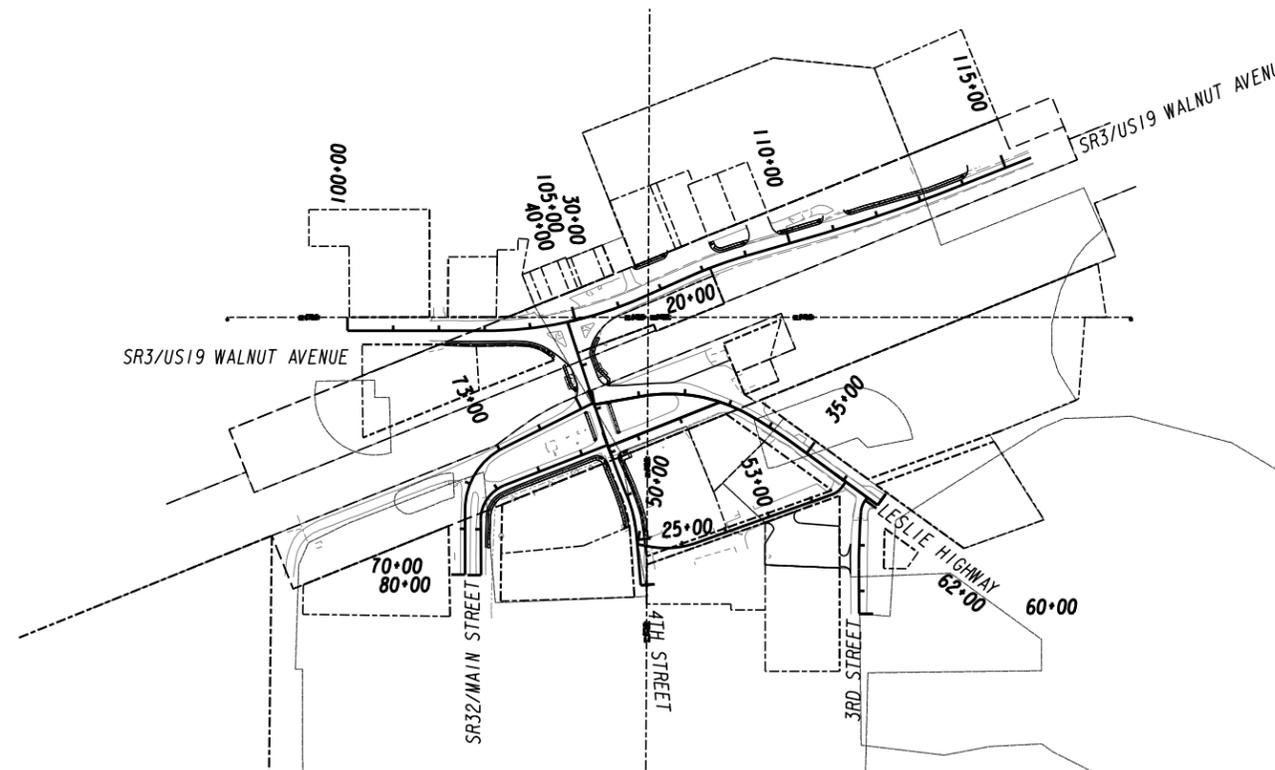
THIS PROJECT HAS BEEN PREPARED  
 USING THE HORIZONTAL GEORGIA  
 COORDINATE SYSTEM OF 1984 (NAD  
 1983/94 WEST ZONE, AND THE NORTH  
 AMERICAN VERTICAL DATUM (NAVD)  
 OF 1988.

THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY  
 INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON  
 FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE  
 SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT  
 OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO  
 SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

FEDERAL ROUTE • 19  
 STATE ROUTE • 3 & 32  
 P.J. NO. 0015404



**NOTE :**  
 ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS,  
 DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION  
 WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE  
 HIGHWAY DEPARTMENT", "GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY  
 DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE  
 STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN  
 THE DEPARTMENT OF TRANSPORTATION.



PLANS PREPARED  
 BY:

DESIGN

DATE	CITY ENGINEER
PLANS COMPLETED XX-XX-202X	
REVISIONS	

LENGTH OF PROJECT	COUNTY No. 177
	Project No. 0015404
	MILES
NET LENGTH OF ROADWAY	0.265
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.265
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.265



Curve # 1  
 PI Sta. 104+78.97  
 N = 629953.0605  
 E = 2294881.5799  
 DELTA = 23°47'00.9" (LT)  
 D = 06°44'26.45"  
 T = 179.00  
 L = 352.84  
 R = 850.00  
 E = 18.64  
 e = EXISTING S.E.

FIRST STATE BANK OF BLAKELY

BAPA 4EVER LLC

BAPA 4EVER LLC

BUILDING

ESA-LEESBURG DOWNTOWN HISTORIC DISTRICT

ASPHALT PAV'T

BEGIN PROJECT STA. 101+00.00

BEGIN CONSTRUCTION STA. 102+13.48  
 N 629687.5699  
 E 2294881.2958

P.C. 102+99.98

103+00

MATCH LINE STA. 104+00.00

L.L.L. 77 (APPROXIMATE)  
L.L.L. 78 (APPROXIMATE)

EXIST R/W

E.O.P.

N 00°03'40.7" E

US 19/SR3/WALNUT AVENUE

Curve #1

EXIST R/W

E.O.P.

GRABER MARC J

EXIST RR R/W

BEGIN 8'X30' C&G, TP 2  
 BEGIN 5' SIDEWALK  
 102+13.48, 22.74' RT

B-4

B-5

B-6

ESA - RESOURCE 3

CENTRAL OF GEORGIA RAILROAD COMPANY  
 LEASED TO CITY OF LEESBURG  
 ESA - HISTORIC RAILROAD

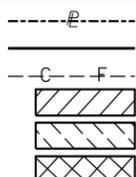
CENTRAL OF GEORGIA RAILROAD COMPANY  
 LEASED TO CITY OF LEESBURG

CENTRAL OF GEORGIA  
 RAILROAD COMPANY

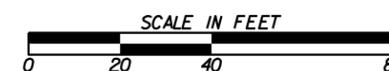
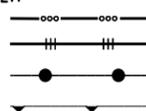
EXIST R/W

EXIST RR LEASE LINE

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA  
 (SEE ERIT TABLE)

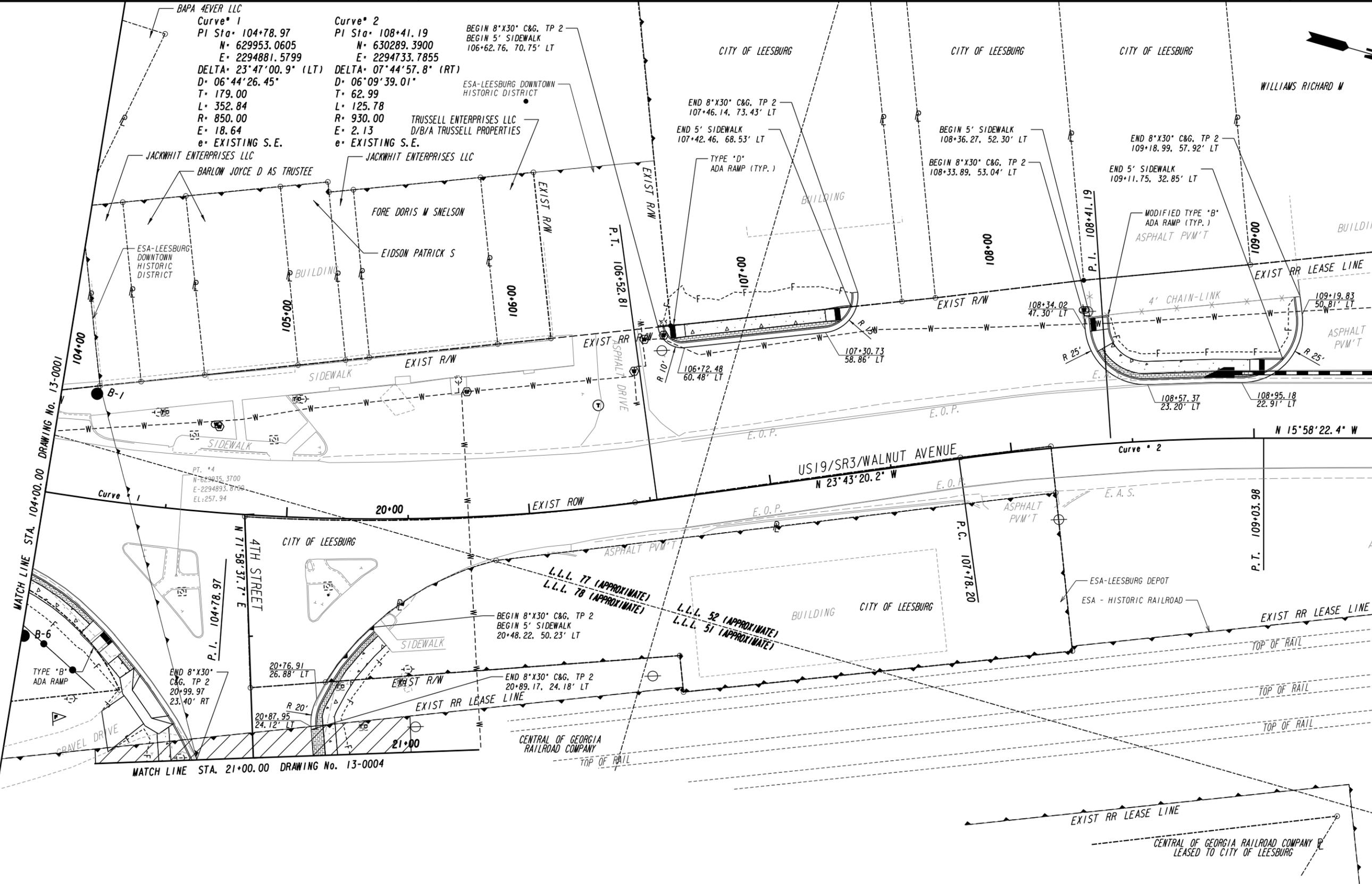


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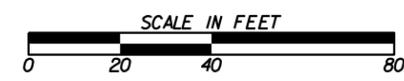
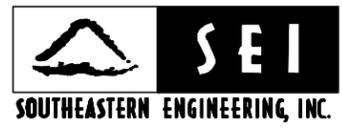
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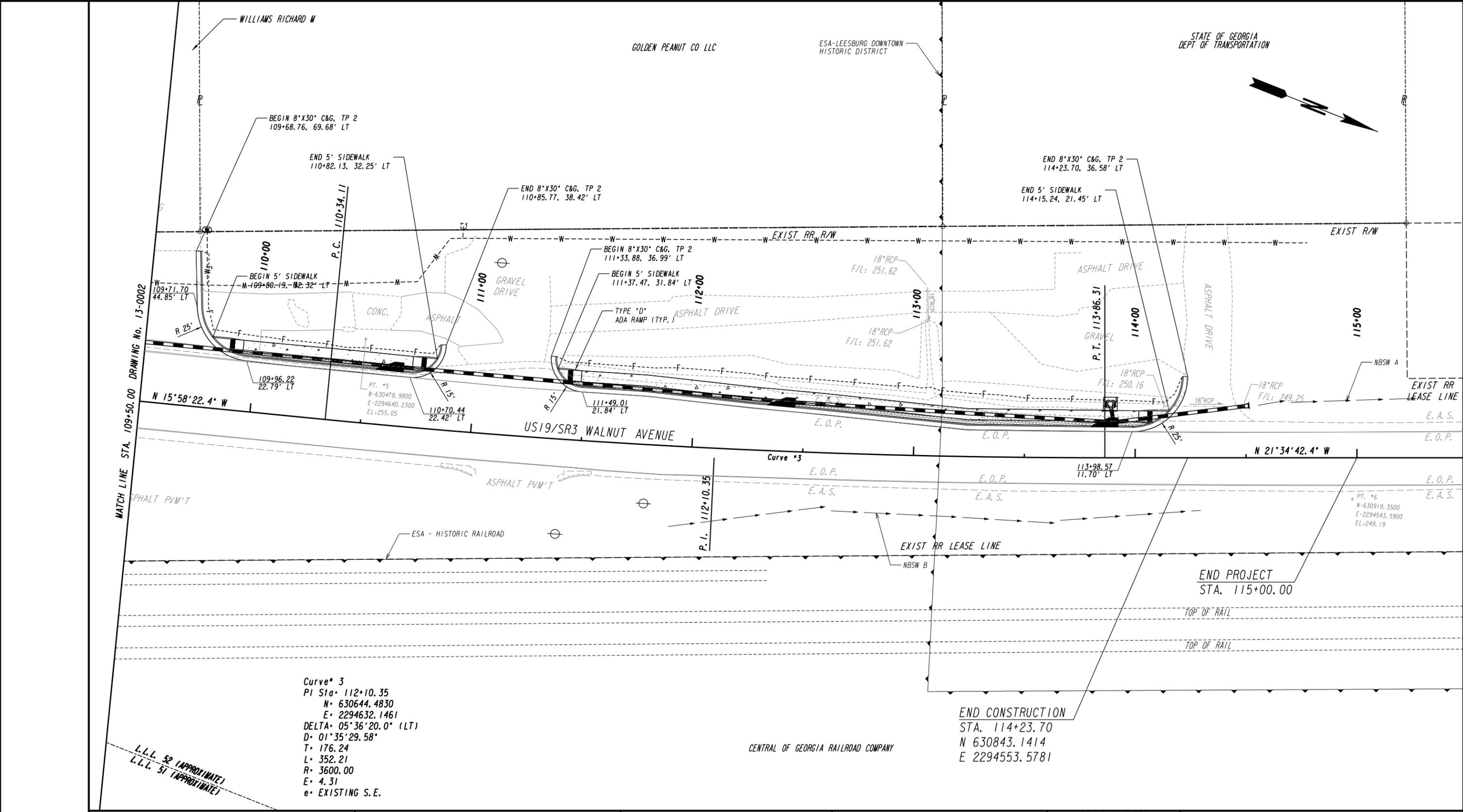
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EASEMENT FOR CONSTR OF SLOPES	---/---
EASEMENT FOR CONSTR OF DRIVES	---/---

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REQ'D LIMIT OF ACCESS & R/W	---
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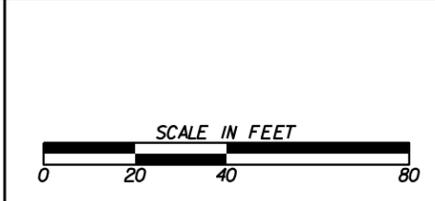
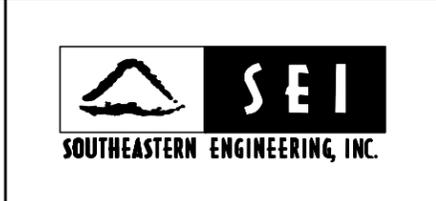
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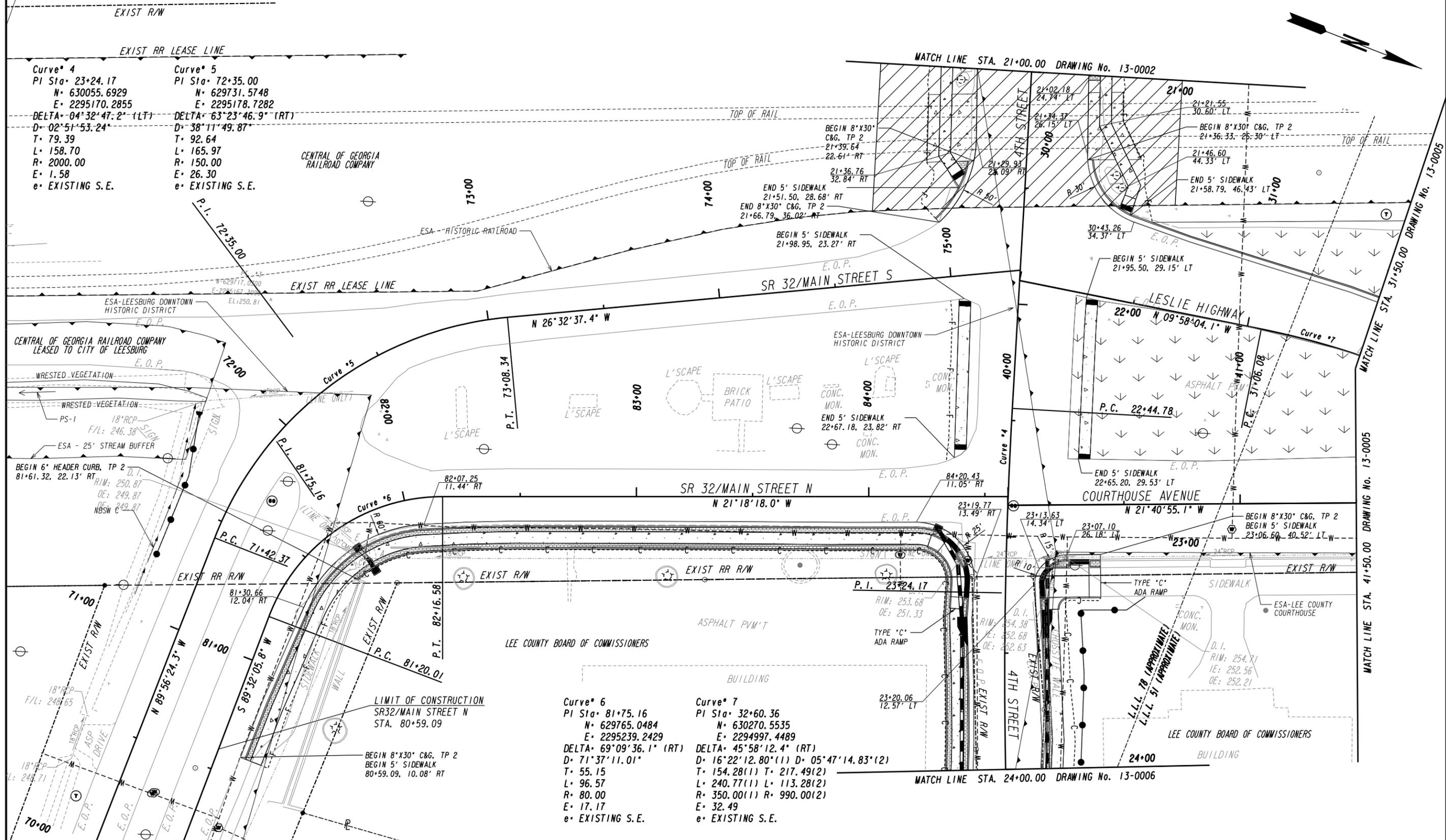
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EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

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REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---



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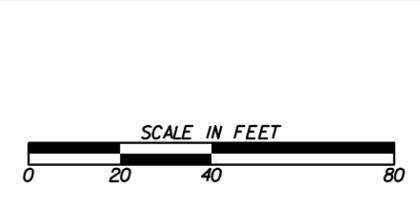


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 & MAINTENANCE OF SLOPES  
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---	ORANGE BARRIER FENCE
---	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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---	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

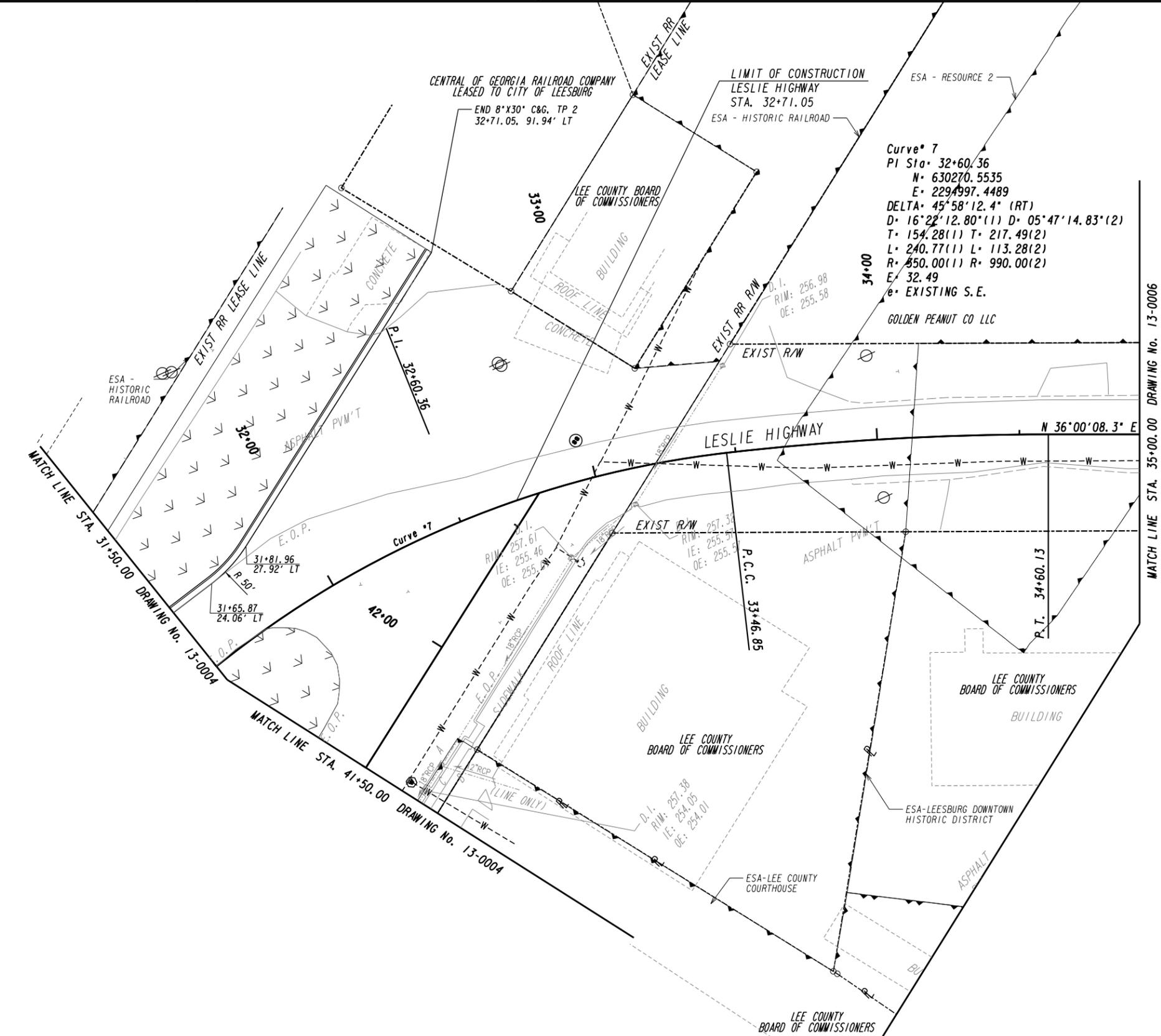
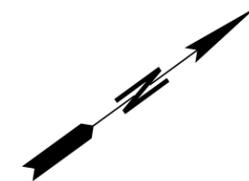
**SEI**  
 SOUTHEASTERN ENGINEERING, INC.



REVISION DATES


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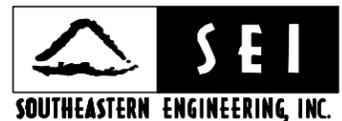
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 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

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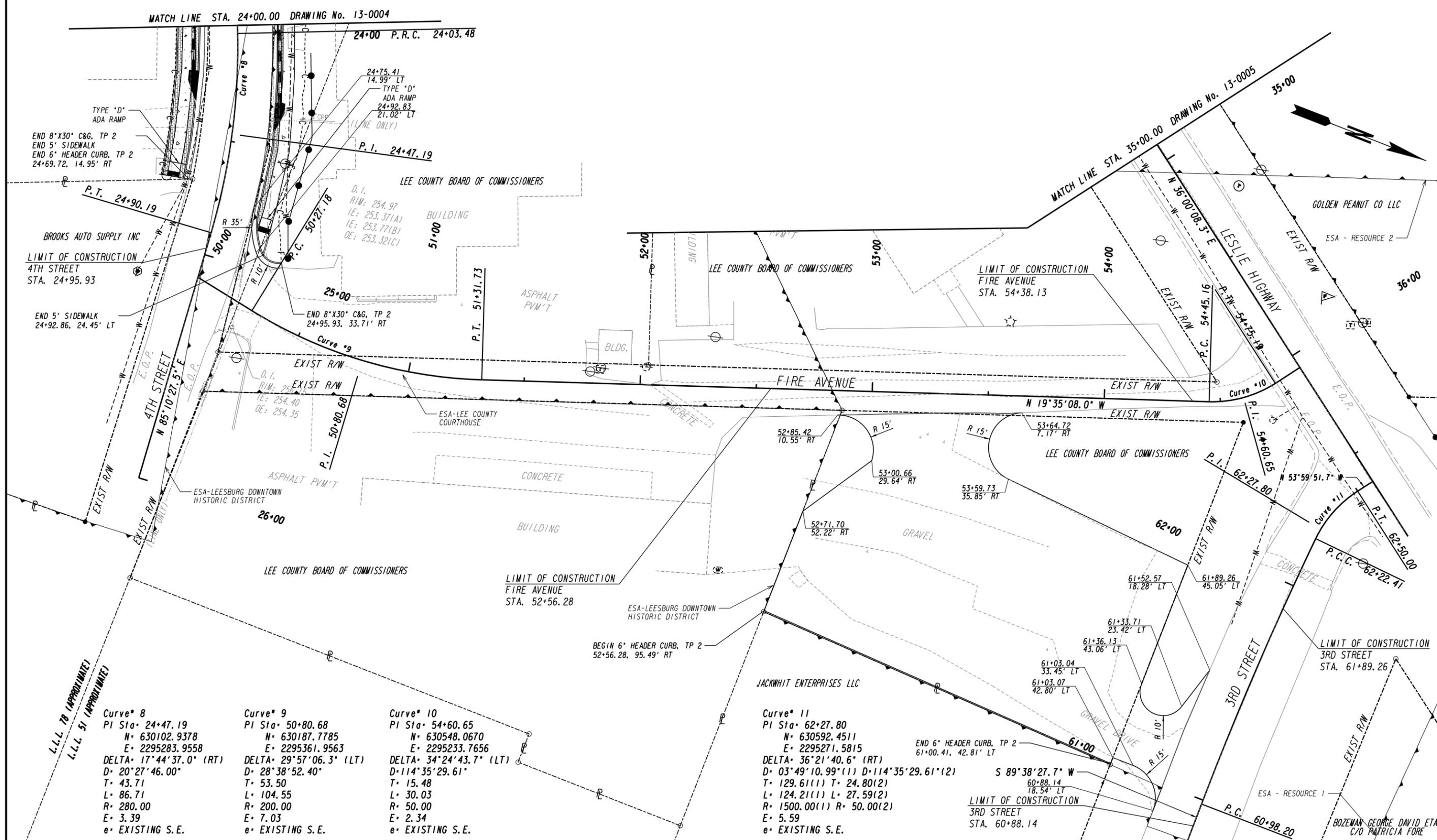


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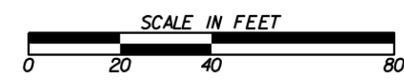
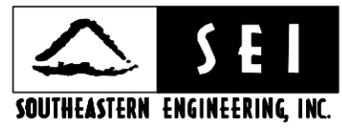
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Curve 9	50+80.68	630187.7785	2295361.9563	29°57'06.3" (LT)	28°38'52.40"	53.50	104.55	200.00	7.03	EXISTING S.E.
Curve 10	54+60.65	630548.0670	2295233.7656	34°24'43.7" (LT)	114°35'29.61"	15.48	30.03	50.00	2.34	EXISTING S.E.
Curve 11	62+27.80	630592.4511	2295271.5815	36°21'40.6" (RT)	03°49'10.99" (1) 114°35'29.61" (2)	129.61 (1) 24.80 (2)	124.21 (1) 27.59 (2)	1500.00 (1) 50.00 (2)	5.59	EXISTING S.E.

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA  
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 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)



REVISION DATES	

**CONSTRUCTION PLAN**  
 SR 3/US 19 @ SR 32

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