



1675 Lee Road
Winter Park, Florida 32789
P (407) 740-6110
F (407) 740-6112
Terracon.com

November 1, 2023

Duke Energy Florida, LLC
PO Box 37929 ST25B
Charlotte, NC, 28237

Attn: Chris Wimsatt
P: (937) 689-0583
E: chris.wimsatt@duke-energy.com

Re: **Cultural Resources Desk-Based Assessment**
Hamilton 45
US Highway 41
Jasper, Hamilton County, FL
Terracon Project No.: HF235121

Dear Mr. Wimsatt:

Terracon Consultants, Inc. (Terracon) has conducted a cultural resources desk-based assessment of the approximately 49-acre project area located along US Highway 41 in Jasper, Hamilton County, Florida. A summary of Terracon's background research and assessment is presented below.

This work was performed in general accordance with the scope of services outlined in the proposal PHF235121 dated September 15, 2023. This report was prepared for the exclusive reliance of Duke Energy Florida, LLC ("client"). Use or reliance by any other party is prohibited without the written authorization of the client and Terracon.

We trust that this information will assist you in your evaluation of the site. If you have questions concerning this report, or if we can assist you in other matters, please contact us.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to read 'L. Desjardins'.

Lukas Desjardins
Field Scientist - Archaeology
(407) 770-8133
Lukas.Desjardins@Terracon.com

A handwritten signature in black ink, appearing to read 'Terri Russ'.

Terri Russ, M.A., RPA
Department Manager - Natural & Cultural Resources
(407) 740-6739
Terri.Russ@Terracon.com

1.0 INTRODUCTION

The purpose of this review is to determine the probability of encountering cultural resources within the proposed project area and to determine potential effects to cultural resources listed in or eligible to be listed in the National Register of Historic Places (NRHP). The project area is comprised of an approximately 49-acre project area located along US Highway 41 in Jasper, Hamilton County, Florida (**Figure 1**). The project area historically consisted of vacant land and is currently vacant land to the north with three structures to the south.

This desk-based assessment is being conducted for due diligence purposes only and does not meet the requirements for a Phase I Cultural Resource Assessment Survey (CRAS). No field investigations were conducted as part of this assessment. Cultural resource desk-based assessments provide developers, planners, and agency reviewers known information about a tract for proposed development, including previously conducted surveys, previously mapped cultural resources within and adjacent to the project area, and the probability of encountering cultural resources within the project area.

The term “cultural resources” as used herein refers to sites or objects that are archaeological, architectural and/or historical structures. Archaeological site location information is classified as sensitive, please limit the distribution of this information to pertinent personnel.

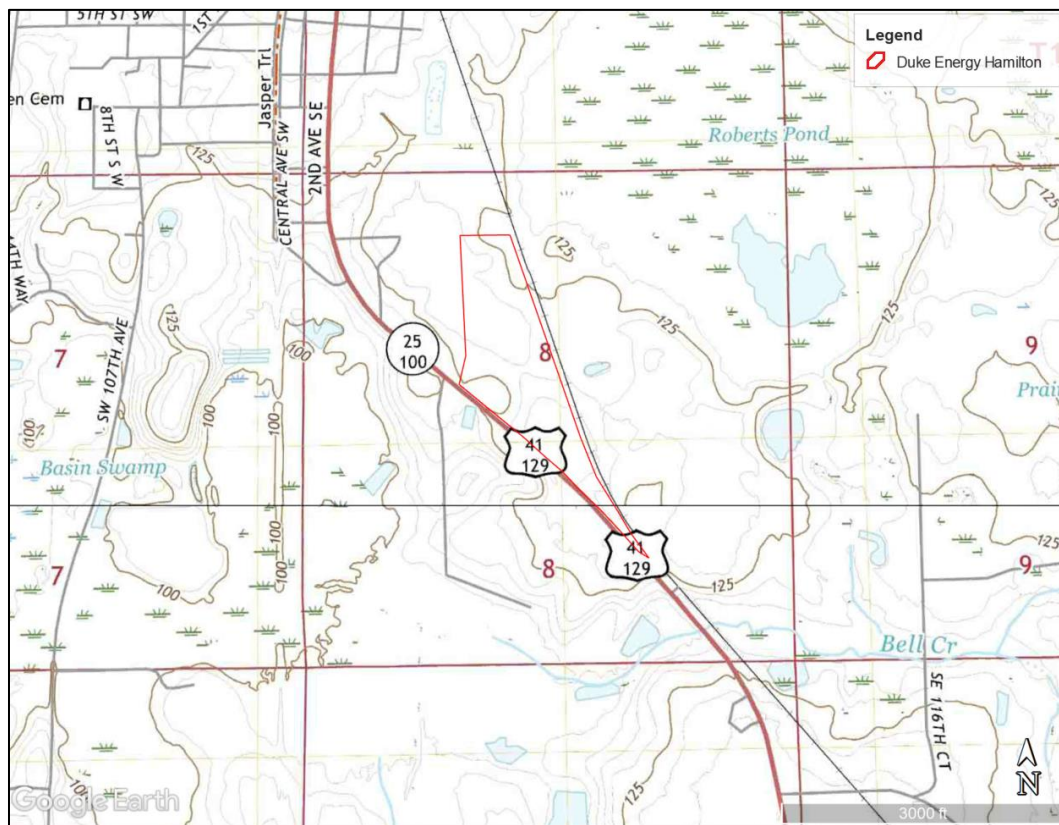


Figure 1. Project location

2.0 PROJECT SETTING

The project area lies within the Okefenokee Basin portion of the Sea Island district. The Sea Island District is associated with the Southeast Georgia Structural Basin, consisting of Ocala limestone covered in a thick overburden layer. The Okefenokee Basin is an eastward sloping terrace, comprising the headwater of rivers such as the Suwannee and St. Marys (Brooks 1984).

According to the United States Geological Survey (USGS) Natural Resources Conservation Service (NRCS), the soils within the project area are primarily mapped as well drained, with somewhat poorly to poorly drained soils along the northeast. "Roberts Pond" is located 0.10 miles (0.16 kilometers) east.

3.0 STATE SITE FILE DATA REVIEW

Terracon conducted a review of the Florida Master Site File (FMSF) database to determine whether the project area has been previously subjected to cultural resource investigations or whether cultural resources have previously been recorded within the project area. FMSF data indicates that no previous cultural resource surveys intersect the project boundaries and no archaeological sites or historic structures have been previously documented within the project area.

Expanding the search to include a one-mile (1.61-kilometer) radius surrounding the project area indicates six cultural resource surveys have been conducted (**Table 1; Figure 2**). As a result of these surveys, one archaeological site (8HA00578), three historic resource groups (8HA00414, 8HA00416, and 8HA00438), and 84 historic structures have been documented (**Tables 2-4; Figure 3**).

Survey No. 19795 is a Cultural Resource Assessment Survey (CRAS) of 78.1 acres for a then-proposed stormwater system and rail trail in the City of Jasper in Hamilton County, Florida (Chambless 2013). Survey No. 19795 documented one historic resource group, "Jasper Historic District" (8HA00414), located approximately 0.47 miles (0.76 kilometers) northwest of the project area. The Jasper Historic District contains a total of 50 resources, 37 of which are considered contributing resources, and was determined eligible for listing in the NRHP by the State Historic Preservation Office (SHPO) in 2013. One NRHP-listed historic structure, "United Methodist Church" (8HA00026), located approximately 0.58 miles (0.93 kilometers) northwest of the project area, is a contributing resource for the Jasper Historic District. A linear resource, "Atlantic Coast Line RR" (8HA00416), is located approximately 0.40 miles (0.64 kilometers) west of the project area and passes through the Jasper Historic District. Linear resource 8HA00416 was determined eligible for listing in the NRHP by the SHPO in 2013 but is not considered a contributing resource for the Jasper Historic District.

Survey No. 23359 is a CRAS of 67 acres for a proposed electrical substation in Hamilton County, Florida (Culen and Wayne 2016). Survey No. 23359 documented one archaeological site, "Jasper Substation" (8HA00578), located north of and adjacent to the project area. 8HA00578 consists of a precontact campsite and extractive site associated with the Orange and Weeden Island periods. In 2016, SHPO determined there was insufficient information to determine the eligibility of archaeological site 8HA00578. In the 2016 concurrence letter for Survey No. 23359, SHPO noted that while the portions of the site documented in Survey No. 23359 were ineligible for listing in the NRHP, portions outside the boundary of the survey could be eligible for listing in the NRHP. Based on the boundary of Survey No. 23359 and the documented boundary of archaeological site 8HA00578, there is potential that the site extends into the current project area. Survey No. 23359 also documented one historic linear resource,

"Georgia Southern & Florida RR" (8HA00438), located east, adjacent to the project area. Linear resource 8HA00438 was determined eligible for listing in the NRHP in 2016.

Outside of resource group 8HA00578, an additional 34 historic structures are located within a one-mile radius of the project area. While these structures are not located within the Jasper Historic District, they are located within the City of Jasper. Of the 34 structures, one structure was listed in the NRHP in 1983, three structures were found by the SHPO to have insufficient information to determine eligibility for listing in the NRHP, one structure has not been evaluated by the SHPO, and 29 structures were determined ineligible for listing in the NRHP. The NRHP listed structure, Old Hamilton County Jail, is located approximately 0.95 miles (1.51 kilometers) north-northwest of the project area and consists of a jail constructed in 1893.

Of the remaining four surveys, three were conducted after the publication of the Florida Department of Historical Resources' (FDHR) *Module Three* (Survey Nos. 19396, 20105, and 21070). No archaeological sites or historic structures were documented within a one-mile (1.61-kilometer) radius of the project area as a result of these surveys.

Table 1. Previously Documented Surveys within a One-mile Radius of the Project Area.

| Survey No. | Report Name | Location | Date | Reference |
|------------|--|-------------------------|------|--|
| 12330 | <i>A Preservation Plan for Jasper, Florida</i> | Outside of Project Area | 1979 | Barr, Melanie |
| 19396 | <i>Phase I Cultural Resource Assessment Survey of the Jasper-West Lake 115kV Transmission Line Rebuild, Hamilton County, Florida</i> | Outside of Project Area | 2012 | Carlson, Lisabeth |
| 19795 | <i>Cultural Resource Assessment Survey for the Jasper Rail Trail and Stormwater Improvements, Hamilton County, Florida</i> | Outside of Project Area | 2013 | Chambless, Elizabeth |
| 20105 | <i>Mitigation of Impacts: Florida Branch, Atlantic Coast Railroad, 8HA416, Hamilton County, Florida</i> | Outside of Project Area | 2013 | Dickinson, Martin F. Lucy B. Wayne |
| 21070 | <i>Phase Cultural Resource Assessment Survey of the Jasper-Wright's Chapel 115kV Transmission Line Rebuild, Hamilton County, Florida</i> | Outside of Project Area | 2014 | Lent, Kyle Bruce K. Nodine Ryan Van Dyke |
| 23359 | <i>Cultural Resources Survey and Assessment, Duke Energy Florida, Inc., Jasper South Substation, Hamilton County, Florida</i> | Outside of Project Area | 2016 | Culen, Joseph P. Lucy B. Wayne |

Table 2. Previously Documented Archaeological Sites within a One-mile Radius of the Project Area.

| Site ID | Name | Temporal Association | Description | SHPO Eligibility |
|----------|-------------------|---|----------------|-----------------------|
| 8HA00578 | Jasper Substation | Orange; Weeden Island, A.D. 450-1000 | Lithic scatter | Not Evaluated by SHPO |

Table 3. Previously Documented NRHP Structures within a One-mile Radius of the Project Area.

| Site ID | Name | Description | Year Built | SHPO Eligibility |
|----------|--------------------------|------------------------------|------------|--------------------|
| 8HA00026 | United Methodist Church | House of Worship | c. 1878 | NRHP Listed (1978) |
| 8HA00056 | Old Hamilton County Jail | Jail/Prison/Detention Center | 1893 | NRHP (1983) |

Table 4. Previously Documented Resource Groups within a one-mile Radius of the Project Area.

| Site ID | Name | Temporal Association | Resource Type | SHPO Eligibility |
|----------|-------------------------------|-----------------------------------|---------------------|--------------------------|
| 8HA00414 | Jasper Historic District | 1850–1941 | Historical District | Eligible for NRHP (2013) |
| 8HA00416 | Atlantic Coast Line RR | Late 19 th Century | Linear Resource | Eligible for NRHP (2014) |
| 8HA00438 | Georgia Southern & Florida RR | American-20 th Century | Linear Resource | Eligible for NRHP (2016) |

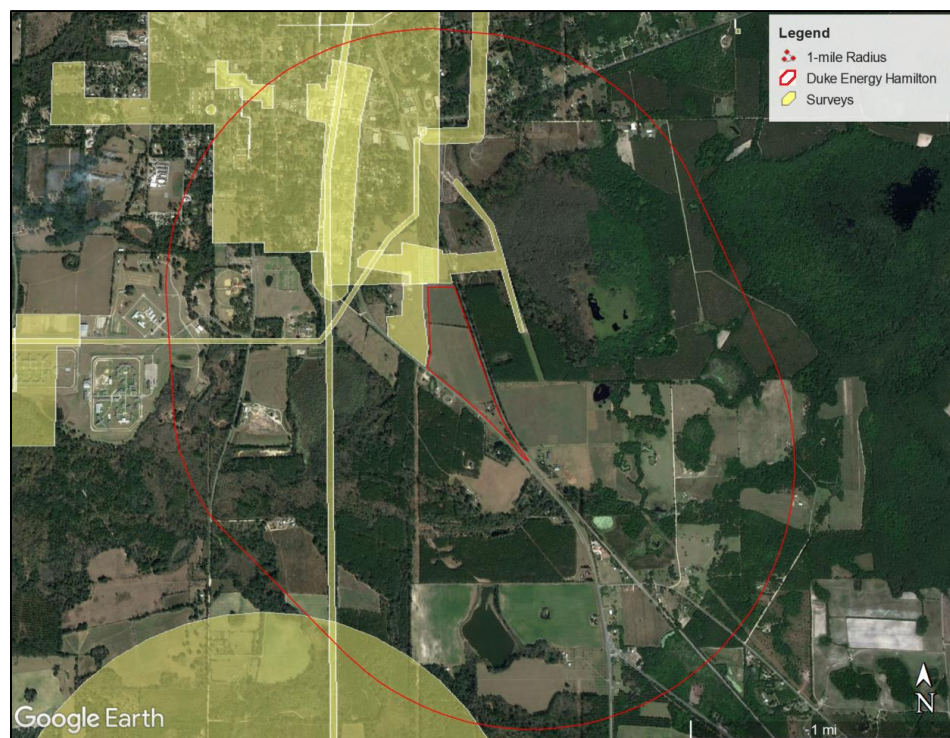


Figure 2. Previously Cultural Resource Surveys within One Mile of the Project Area

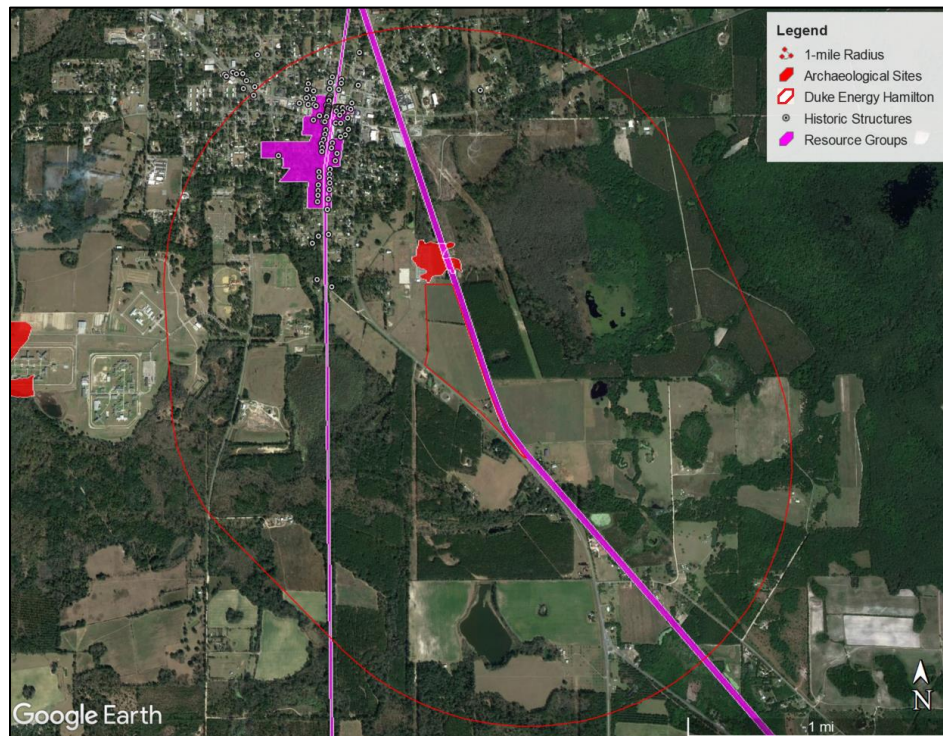


Figure 3. Previously Cultural Resources within One Mile of the Project Area

4.0 COUNTY PROPERTY APPRAISER'S DATABASE REVIEW

The Hamilton County Property Appraiser database was examined to identify whether known historic-age (greater than 50 years of age) structures that have not previously been documented with the FMSF are present within the project area or on adjacent parcels. One unlisted historic-age structure was identified within the project area and three unlisted historic-age structures were identified on adjacent parcels.

5.0 HISTORIC MAP AND AERIAL REVIEW

Historic period maps and aerial photographs of the project area were examined to gain a better understanding of historical land use and development in the region and to assess the potential for historic period resources within the Area of Potential Effects (APE), which is defined in 36 CFR Part 800.16(d) as "the geographical area or areas within which an undertaking may cause changes in the character or use of historic properties if, such properties exist." Maps consulted during this analysis include the 1834 Bureau of Land Management (BLM) survey plats of Township 1N, Range 14E, the United States Geological Survey (USGS) 1955 (1956 Edition) of the *Jasper, Florida* topographic map, the USGS 1961 (1963 Edition) of the *Hillcoat, Florida* topographic map, the USGS 1955 (1977 Edition) of the *Jasper, Florida* topographic map, and 1951 and 1970 USGS aerial imagery (**Figures 4-7**). Topographic maps depicting the southern portion of the project area were not available for the years 1964 through 1992. The findings of the historic map and aerial review are summarized in **Table 3**.

Table 3. Historic Map and Aerial Review

| Source | Content |
|---|--|
| 1834 BLM Survey Plat of Township 1N Range 14E | The project area was depicted as vacant land; Sutton's Mill Pond was depicted approximately 0.11 miles (0.17 kilometers) northeast of the project area. The name suggests a "Sutton's Mill" was located adjacent to the pond; however, there were no structures depicted on the map. Tiger Creek was depicted approximately 0.22 miles (0.36 kilometers) south of the project area. |
| 1952 USDA Aerial Imagery | The project area consisted of vacant land with a road running along the southern boundary and a railroad running along the eastern boundary, corresponding with the location of linear resource 8HA00438. Surrounded parcels appeared to consist of vacant land, with developed areas approximately 0.50 miles (0.80 kilometers) northwest, corresponding with the location resource group 8HA00414. |
| 1955 (1956 Edition) USGS Topographic Map of <i>Jasper, Florida</i> and 1961 (1963 Edition) USGS Topographic Map of <i>Hillcoat, Florida</i> | The project area was depicted as vacant land with the "Southern" railroad illustrated east, adjacent to the project area. Highway 41 was depicted south, adjacent to the project area. A cluster of three structures were depicted southeast, adjacent to the project area. The City of Jasper was depicted approximately 0.45 miles (0.72 kilometers) northwest of the project area. |
| 1955 (1977 Edition) USGS Topographic Map of <i>Jasper, Florida</i> | One structure was depicted towards the south of the project area. Four additional structures were depicted southwest, adjacent to the project area. A pond was depicted east, adjacent to the project area. |

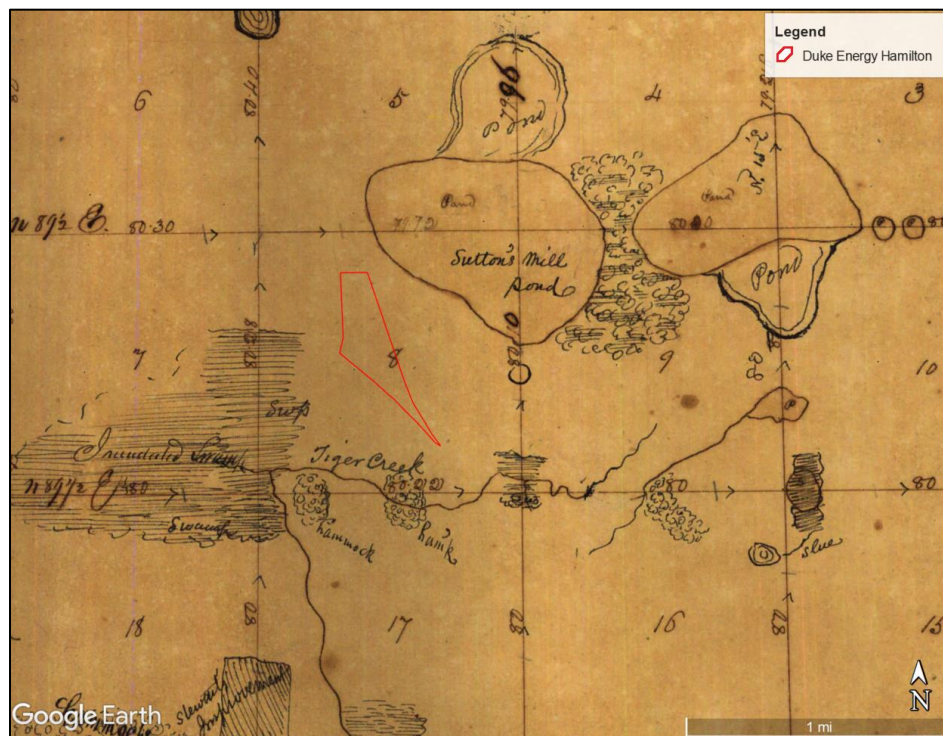


Figure 4. 1834 BLM Survey Plats of Township 1N Range 14E

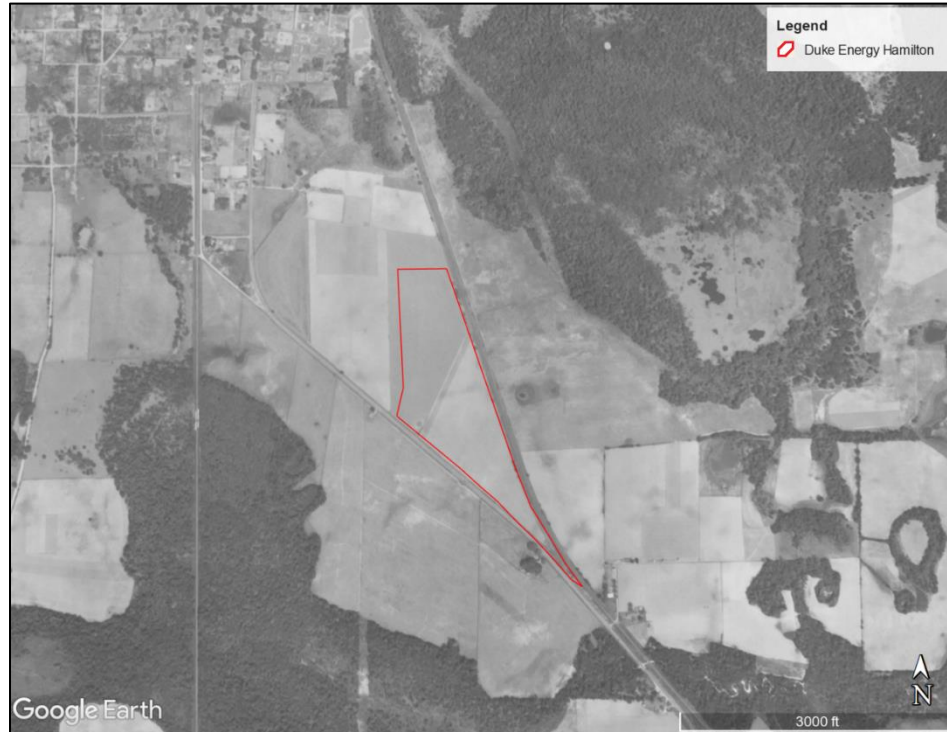


Figure 5. 1952 Aerial Imagery

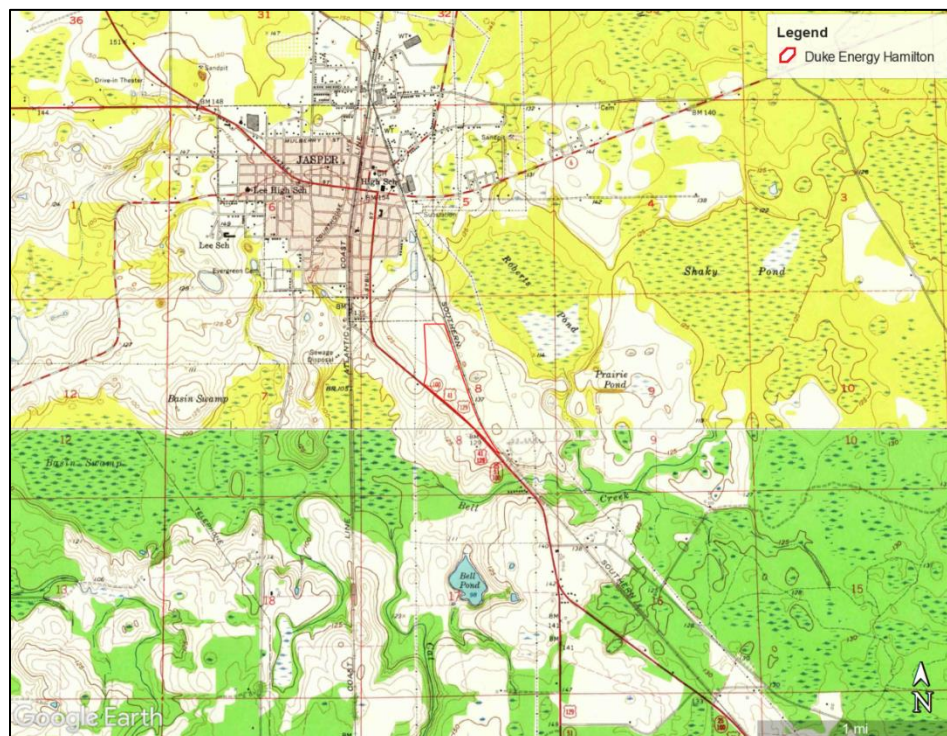


Figure 6. 1955 (1956 Edition) USGS Topographic Map (Jasper, Florida) and 1961 (1963 Edition) USGS Topographic Map (Hillcoat, Florida)

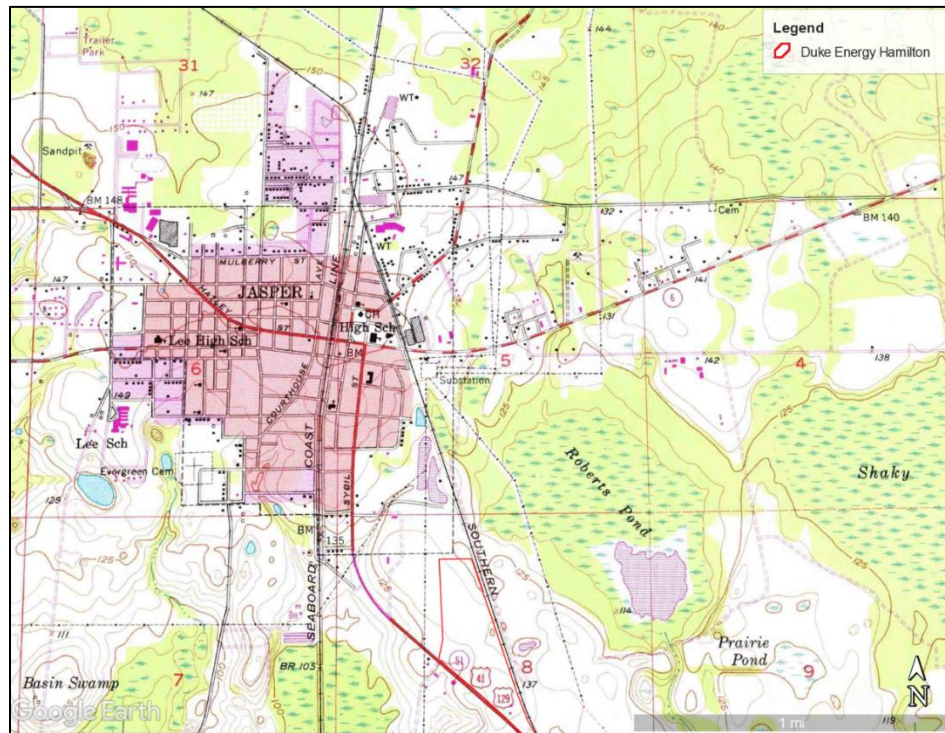


Figure 7. 1955 (1977 Edition) USGS Topographic Map (Jasper, Florida)

6.0 CONCLUSION

No cultural resource surveys have been conducted within the project area, and no archaeological sites or historic structures have been previously documented within the project area. Six cultural resource surveys have been previously conducted within a one-mile (1.61-kilometer) radius surrounding the project area, documenting one archaeological site, three historic resource groups, and 84 historic structures, including two NRHP listed historic structures. Based on the mapped boundaries of Site 8HA00578, which was not fully delineated, it is possible that this site extends into the current project area.

Historic period maps depict limited historic development within the project area through the 1950s. The City of Jasper was present northeast of the project area by 1952, in addition to a railroad and highway adjacent to the project area. By 1977, a structure was depicted in the south of the project area, along with additional structures adjacent to the project area. Currently, the project area consists of vacant land to the north with three structures to the south. Based on soil drainage, distance to fresh water sources, and proximity to previously recorded archaeological sites nearby, the project area exhibits a **moderate to high probability for encountering precontact cultural resources**. Based on the review of historical maps and Sarasota County Property Appraiser records, there is a **high probability for encountering historic period cultural resources** within the project area and on adjacent parcels.

If a state or federal nexus is identified (such as permitting, funding, or other government involvement), compliance with Section 106 of the National Historic Preservation Act (NHPA) or other permitting considerations may be required. A Section 106 Review or other permitting requirements would likely include a CRAS of the project area. A CRAS includes archaeological and historic architecture surveys of the project area and adjacent parcels. A CRAS, also known as a Phase I survey, is the only type of survey which satisfies the historic preservation requirements of federal and state laws and regulations (Section 106 of the NHPA and 36CFR Part 800; Chapter 267, FS and Rule 1A-46, FAC). If additional information is requested regarding cultural resources and the applicability of Section 106 or other relevant cultural resource laws, Terracon can provide scope and costs for these services upon request through coordination with our cultural resource group.

We appreciate the opportunity to work with you on this project. If you should have any questions or comments or would like a proposal for a Phase I CRAS of the project area, please do not hesitate to contact us.

7.0 References

Barr, Melanie

1997 *A Preservation Plan for Jasper, Florida*. Ms. on File, Florida Master Site File, Tallahassee.

Brooks, H. Kelley

1984 *Physiographic Divisions: State of Florida*. Map and Text. Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville.

Bureau of Land Management

1834 Township/Range: 1 N / 14 E Original Survey Plats
https://www.labins.org/survey_data/landrecords/glo_trsearch.cfm/?town1=1&town2=N&range1=14&range2=E Accessed 10/30/2023.

Carlson, Lisabeth

2012 *Phase I Cultural Resource Assessment Survey of the Jasper-West Lake 115kV Transmission Line Rebuild, Hamilton County, Florida*. Ms. on File, Florida Master Site File, Tallahassee.

Chambless, Elizabeth

2013 *Cultural Resource Assessment Survey for the Jasper Rail Trail and Stormwater Improvements, Hamilton County, Florida*. Ms. on File, Florida Master Site File, Tallahassee.

Culen, Joseph P. and Lucy B. Wayne

2016 *Cultural Resources Survey and Assessment, Duke Energy Florida, Inc., Jasper South Substation, Hamilton County, Florida*. Ms. on File, Florida Master Site File, Tallahassee.

Dickinson, Martin F. and Lucy B. Wayne

2013 *Mitigation of Impacts: Florida Branch, Atlantic Coast Railroad, 8HA416, Hamilton County, Florida*. Ms. on File, Florida Master Site File, Tallahassee.

Lent, Kyle, Bruce K. Nodine, and Ryan Van Dyke

2014 *Phase Cultural Resource Assessment Survey of the Jasper-Wright's Chapel 115kV Transmission Line Rebuild, Hamilton County, Florida*. Ms. on File, Florida Master Site File, Tallahassee.

United States Geological Survey (USGS)

1952 EarthExplorer Aerial Imagery. <https://earthexplorer.usgs.gov/> Accessed 10/30/2023.

1955 *Jasper, FL*. USGS Topographic Map (1956 Edition).

1961 *Hillcoat, FL*. USGS Topographic Map (1963 Edition).