

Technical Memorandum: Effects Evaluation for Cultural Resource Identified along SR 514

Malabar Road (SR 514) PD&E Study
From East of Babcock Street (SR 507) to US 1
Brevard County, Florida

FPID: 430136-1-22-01

ETDM: 13026

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding (MOU) dated December 14, 2016 and executed by the Federal Highway Administration and FDOT.

October 2014

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Prepared By

SEARCH

700 North 9th Avenue

Pensacola, Florida 32501

**TECHNICAL MEMORANDUM:
EFFECTS EVALUATION FOR
CULTURAL RESOURCES IDENTIFIED ALONG STATE ROAD 514
FROM BABCOCK ROAD TO US 1
BREVARD COUNTY, FLORIDA**

CONSULTANT: SEARCH
700 North 9th Avenue, Pensacola, Florida 32501
PRINCIPAL INVESTIGATOR: Marie E. Pokrant, MA, RPA
CLIENT: Atkins
DATE: October 2014
FM#: 430136-1-22-01

This technical memorandum provides an evaluation of project-related effects to significant cultural resources identified within the Area of Potential Effects (APE) for the proposed improvements to State Road (SR) 514 in Brevard County, Florida. A Phase I Cultural Resource Assessment Survey (CRAS) was completed for the project in March 2014 (SEARCH 2014a; Florida Master Site File [FMSF] Survey No. 20798). The CRAS identified two resources within the project APE that are eligible for listing on the National Register of Historic Places (NRHP): the Florida East Coast (FEC) Railroad (8BR01870) and the Old Malabar Elementary School (8BR01925). The CRAS also identified one archaeological site within the proposed right-of-way, 8BR00053. The Phase I archaeological testing resulted in insufficient information with which to make an eligibility determination, and SEARCH recommended that a Phase II site assessment be conducted should project plans develop that would require construction in the vicinity of 8BR00053.

In September 2014, a follow-up CRAS was conducted for eight proposed ponds associated with the SR 514 project. No cultural resources were identified within the proposed ponds, and no further work was recommended for those areas.

The present technical memorandum serves as an addendum to the previous SEARCH reports titled *Cultural Resource Assessment Survey for SR 514 (Malabar Road) from Babcock Road to US 1, Brevard County, Florida* (SEARCH 2014a, FMSF No. 20798) and *Technical Memorandum: Cultural Resource Assessment Survey of Eight Proposed Ponds along State Road 514 From Babcock Road to US 1, Brevard County, Florida* (SEARCH 2014b; FMSF No. TBD). The purpose of the present memorandum is to evaluate project-related effects to historic resources 8BR01870 and 8BR01925 and to archaeological site 8BR00053 (**Figure 1**).

All work was performed in accordance with Part 2, Chapter 12, of the FDOT Project Development and Environment (PD&E) Manual (revised January 1999) and the Cultural Resource Management Handbook (revised November 2004), as well as the Florida Division of

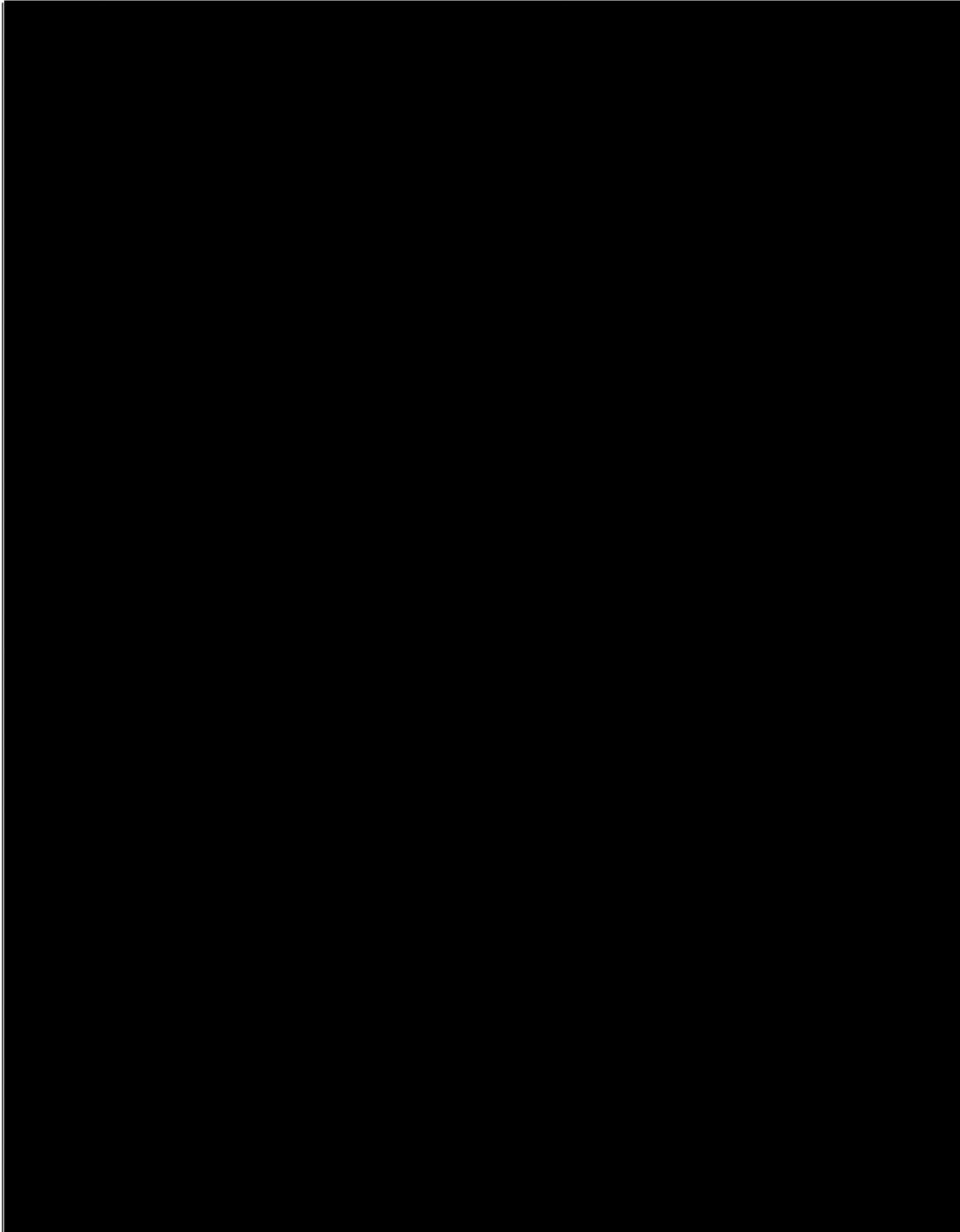


Figure 1. Location of 8BR00053, 8BR01870, and 8BR01925 within the SR 514 / Malabar Road APE, Brevard County, Florida.

Historical Resources (FDHR) recommendations for such projects as stipulated in the FDHR's *Cultural Resource Management Standards & Operations Manual, Module Three: Guidelines for Use by Historic Preservation Professionals*. The Principal Investigator for this project meets the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation (48 FR 44716). This study also complies with Section 106 of the National Historic Preservation Act (as amended) and its implementing regulation 36 CFR Part 800 (Protection of Historic Properties).

8BR01870, FEC RAILROAD

The Florida East Coast (FEC) Railroad (8BR01870) is located near the eastern end of the SR 514 APE (see **Figure 1**). The Florida State Historic Preservation Officer (SHPO) determined the overall FEC Railroad resource group eligible for listing in the NRHP on June 24, 2011. The railroad segment is in overall good condition and retains sufficient integrity to be a contributing segment to the Florida East Coast Railroad Resource Group (8BR01870). It possesses associative value under Criterion A because it was an influential component of the state's railroad network and because it made important early connections within that network and with other modes of transportation and under Criterion B for its association with Henry Morrison Flagler. The Federal Highway Administration (FHWA) and the Florida SHPO concurred with the continuing eligibility of 8BR01870 in April 2014.

While the SR 514 widening project will require the acquisition of right-of-way along SR 514/Malabar Road in the vicinity of the railroad, no property will be acquired from the railroad itself. The project will maintain the existing at-grade intersection with the railroad and will not impede or reroute rail traffic. No physical alterations will be made to the railroad itself. As such, it is the opinion of SEARCH that the proposed project will have no effect on 8BR01870.

8BR01925, OLD MALABAR ELEMENTARY SCHOOL

The Old Malabar Elementary School (8BR01925) is located at 1490 Marie Street near the eastern end of the SR 514 APE (see **Figure 1**). SEARCH recommended the school as eligible under Criterion A for its contribution to the development of the local education system and Criterion C as an example of the pre-New Deal school. Its period of significance is 1927-1935, the years of its construction and operation as a school, and its boundaries include the original building's footprint. The FHWA and SHPO concurred with the eligibility determination for 8BR01925 in April 2014.

The proposed widening of SR 514/Malabar Road will not require right-of-way from the Old Malabar Elementary School parcel. However, the project will acquire right-of-way from the parcel directly to the south of the parcel on which the Old Malabar Elementary School is located. The proposed right-of-way line will be located approximately 150 feet south of the

8BR01925 parcel and approximately 180 feet south of the building footprint. As such, it is the opinion of SEARCH that the proposed project will have no effect on 8BR01925.

8BR00053, MALABAR SITE

The Phase I CRAS for the SR 514 project identified intact archaeological deposits associated with the previously recorded Malabar Site, 8BR00053, in the proposed right-of-way on the north side of Malabar Road at its intersection with US 1. As a result of shovel testing, the boundaries of 8BR00053 were expanded westerly from the original site boundary for approximately 63 meters (206 feet). An intact shell midden deposit was encountered within this western expansion of the site boundary (Shovel Test 74), and a possible intact soil horizon was noted within the original site boundary (Shovel Test 80) (see **Figure 2**). The September 2014 ponds CRAS included the excavation of four additional shovel tests within the boundary of 8BR00053; none of these four tests identified archaeological material.

The preferred alternative for the project will require additional right-of-way within the boundary of 8BR00053. Due to the presence of intact shell midden yielding diagnostic cultural material and the lack of controlled, stratigraphic excavation at 8BR00053, SEARCH recommends that Phase II NRHP testing be conducted within the existing/proposed right-of-way north of SR 514/Malabar Road within the 8BR00053 site boundary. The goal of the Phase II site assessment would be to gather data sufficient to develop a recommendation regarding the NRHP eligibility of site 8BR00053.

SEARCH recommends that the Phase II site assessment include the excavation of three 1-x-1-meter test units, in relation to the positive shovel tests shown on **Figure 2**. One test unit will be placed east of Shovel Test 74, one test unit will be placed west of Shovel Test 80, and the remaining test unit will be placed at the discretion of the field crew (in consultation with the Principal Investigator) depending upon the archaeological deposits noted in the initial test units. Buried utilities will be marked prior to excavation, and these may alter the placement of test units.

The units will be excavated in 10-centimeter arbitrary levels within natural or cultural strata. Field forms will be completed for each level, and at least one profile wall from each unit will be photo-documented and drawn to scale. Excavated soil will be screened through 1/4-inch mesh. Artifacts will be placed in zip-top bags with full provenience information written on the exterior. A field specimen (FS) log will be completed for all artifact bags.

Once the fieldwork is complete, SEARCH will prepare a Management Summary describing the results of the fieldwork and making an eligibility determination for the site. Should the Phase II excavation demonstrate that the site is not eligible for the NRHP, no further work will be recommended. However, if the Phase II work concludes that the site has the potential to

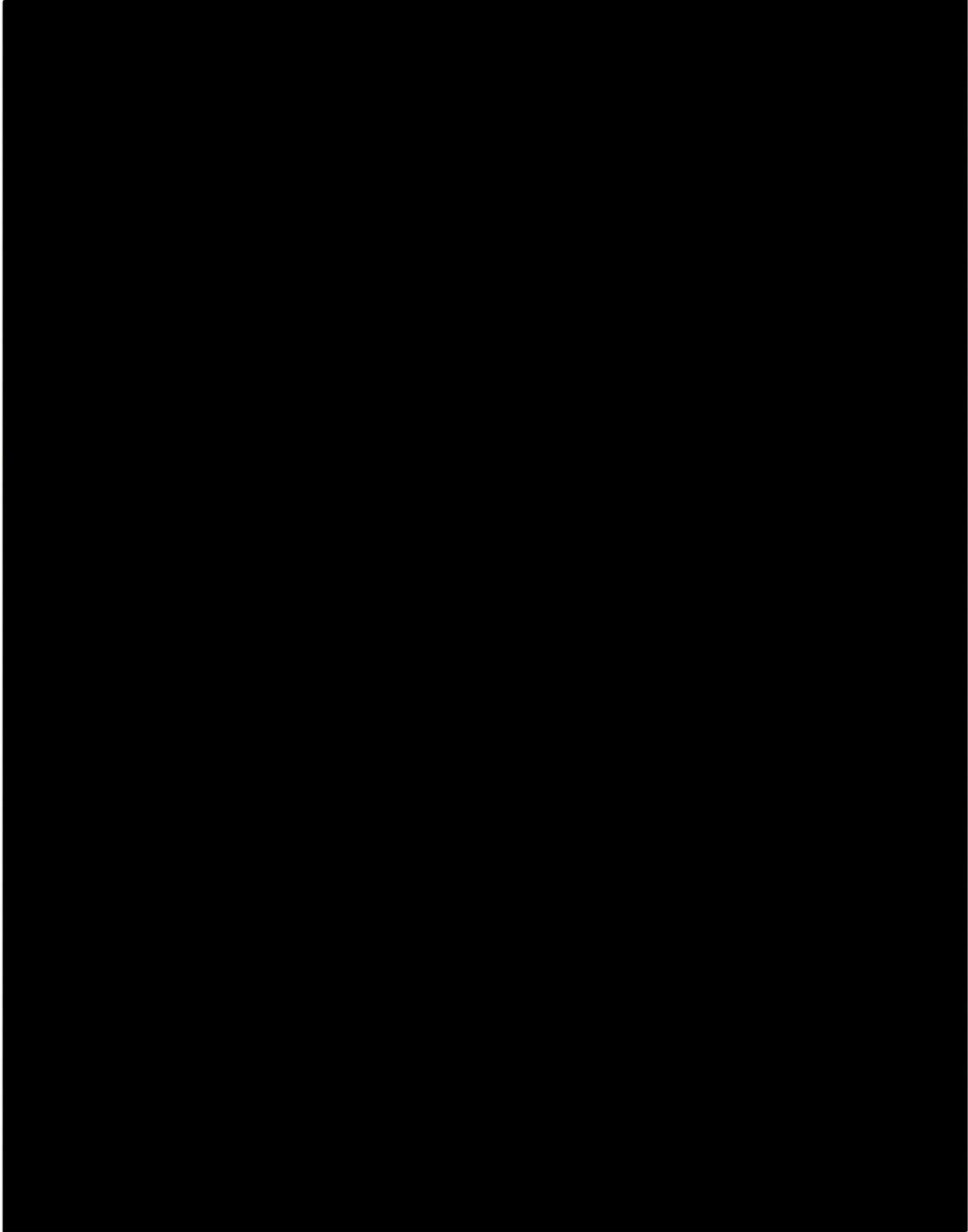


Figure 2. Results of Phase I CRAS in vicinity of 8BR00053.

contain information important to prehistory, either mitigation (e.g., data recovery excavation within the project construction area) or avoidance will be necessary. The full Phase II site assessment report will follow submittal of the initial Management Summary.

CONCLUSIONS

This technical memorandum provides an effects evaluation for three resources identified within the APE for the SR 514 widening project in Brevard County. It is the opinion of SEARCH that based on a review of project plans, the widening of SR 514 will have no effect on either 8BR01870 or 8BR01925. It is the opinion of SEARCH that a Phase II site assessment should be conducted on site 8BR00053 in order to gather data sufficient to develop an eligibility determination for this site.

REFERENCES CITED

SEARCH

- 2014a *Cultural Resource Assessment Survey for SR 514 (Malabar Road) from Babcock Road to US 1, Brevard County, Florida.* FMSF Survey No. 20798. On file, SEARCH, Newberry, Florida.
- 2014b *Technical Memorandum: Cultural Resource Assessment Survey of Eight Proposed Ponds along State Road 514 From Babcock Road to US 1, Brevard County, Florida.* FMSF Survey No. TBD. On file, SEARCH, Newberry, Florida.