



# A Phase I Cultural Resources Survey for AHTD Job Number CA0602 - Addendum Report 1 -

Interstate 530 - Highway 67 Widening and Reconstruction  
Pulaski County, Arkansas  
August 2016





## TABLE OF CONTENTS

1.0 Supplemental Project Description.....	1
2.0 Soils in the Project Area.....	4
3.0 Trail of Tears.....	10
4.0 Background Research.....	12
4.1 General Land Office Maps.....	12
4.2 Review of Arkansas Archeological Survey Site Files.....	12
4.3 Review of Arkansas Archeological Survey Project Files.....	12
5.0 Field Methodologies and Results.....	14
5.1 Field Methods.....	14
5.2 Results.....	14
6.0 Summary and Conclusions.....	24
7.0 References Cited.....	25

## FIGURES

Figure 1. Overview of Segment 5 APE on Aerial Imagery.....	2
Figure 2. Overview of Segment 5 APE on Topographic Map.....	3
Figure 3. USDA Soils Map Overview for Segment 5 APE (USDA Web Soil Survey 2016).....	4
Figure 4. USDA Soil Description for Linker-Urban land complex, 3 to 8 percent slopes (page 1).....	5
Figure 5. USDA Soil Description for Linker-Urban land complex, 3 to 8 percent slopes (page 2).....	6
Figure 6. USDA Soil Description for Mountainburg-Urban land complex, 12 to 40 percent slopes (page 1).....	7
Figure 7. USDA Soil Description for Mountainburg-Urban land complex, 12 to 40 percent slopes (page 2).....	8
Figure 8. USDA Soil Description for Urban land.....	9
Figure 9. Overview of Removal Corridors and the Current APE on 2015 Aerial Imagery .....	11
Figure 10. 1819 GLO Map showing Segment 5 APE.....	13
Figure 11. Transect Location in Segment 5 APE.....	15
Figure 12. Transect Location in Segment 5 APE (eastern half).....	16
Figure 13. Transect Location in Segment 5 APE (western half).....	17
Figure 14. Shovel Test 3 at 40 meters on Segment 5 APE.....	19
Figure 15. Shovel Test 3 on Segment 5 APE.....	20
Figure 16. View from Shovel Test 5 at 80 meters on Segment 5 APE (facing west).....	20
Figure 17. View from Shovel Test 7 at 120 meters on Segment 5 APE (facing west)....	21
Figure 18. Shovel Test 7 on Segment 5 APE.....	21
Figure 19. View from Shovel Test 8 at 100 meters on Segment 5 APE (facing west)....	22
Figure 20. View from Shovel Test 29 (facing east).....	22
Figure 21. View 10 meters south of Shovel Test 41 at 800 meters showing road fill slope (facing northwest).....	23

## TABLES

Table 1. First Land Patent Records.....	12
Table 2. Shovel Test Locales and Results.....	19

## APPENDICES

Appendix A: Qualifications for Chris Branam, Principal Investigator.....	A-1
Appendix B: Inventory of Shovel Tests in Segment 5.....	B-1



## 1.0 SUPPLEMENTAL PROJECT DESCRIPTION

The Arkansas State Highway and Transportation Department (AHTD) Job CA0602 is part of the AHTD State Highway Construction and Improvement Program called the Connecting Arkansas Program (CAP). The original design plan for Job CA0602 was to widen and reconstruct Interstate 30 (I-30) from Interstate 530 (I-530) to Interstate 40 (I-40), including the Arkansas River Bridge, and I-40 from County Road (C.R.) 365 (Pike Avenue) to Highway (Hwy) 67 for a project length of approximately 6.7 miles. A supplemental project area was added after the initial cultural resources survey, extending the design plans from the previous terminus at the on-ramp from I-40 to John F. Kennedy Boulevard (JFK) westward to the I-40 overpass at Pike Avenue (Figures 1 and 2). The supplemental project area, extending approximately 0.7 miles from the on-ramp to the I-40 overpass at Pike Avenue, is designated in this report addendum as **Segment 5 APE**, as the previous cultural resources report contained the results of the Phase I survey for the original design that was divided into Segments 1 through 4. The 10-lane alternative will add two lanes in each direction to the existing roadway. The 8-lane alternative will add one lane in each direction to the existing three lane roadway. The intent of either alternative is to improve interchanges along I-30 and I-40 from I-530 to the Hwy. 67 interchange in Little Rock and North Little Rock, Arkansas. The Segment 5 APE surveyed (Figure 1) included the 10-lane alternative, which is the largest of the alternatives.

In 2014, AHTD department personnel performed an initial archeology background study. The department previously coordinated with the State Historic Preservation Office (SHPO) to determine the Area of Potential Effect (APE) and developed a plan for archeological identification, evaluation, and documentation. This plan (dated January 2015 and titled, Cultural Resources Survey Methodology Memo for CA0602) outlined the defined archeological APE and the areas of archeological/cultural resources concerns.

In 2015, Flat Earth Archeology conducted a Phase I cultural resources survey in the agreed upon archeological APE, excavating shovel tests in 20 meter intervals (maximum interval) covering the Project Area (Segments 1 through 4). A total of 5,004 screened shovel tests were excavated during the survey. Additionally, Flat Earth Archeology conducted auger testing at the bridge widening locations in an effort to determine if deeply buried cultural deposits were present. A total of 80 auger tests were excavated to depths between 1.6 meters and 3.7 meters. Seven newly recorded archeological sites were recorded during the survey and artifacts were collected from an archeological site revisit. Flat Earth Archeology did not recommend further archeological investigations at any of the sites.

The current Phase I cultural resources survey of Segment 5 APE was conducted by Flat Earth Archeology in June 2016. All of the archeological APE in Segment 5 APE was inside of existing right-of-way (ROW) and was steeply sloped or heavily disturbed from past road construction. Segment 5 APE is located along the northern edge of the I-40, between the JFK Interchange and I-40 overpass of Pike Avenue. This area is roughly 1,120 meters in length and is approximately 25 meters in width (with portions fluctuating between 15 and 38 meters). Segment 5 APE covers approximately 5.52 acres. Segment 5 APE is predominantly in the existing roadway and roadway fill, and steeply sloped.

1

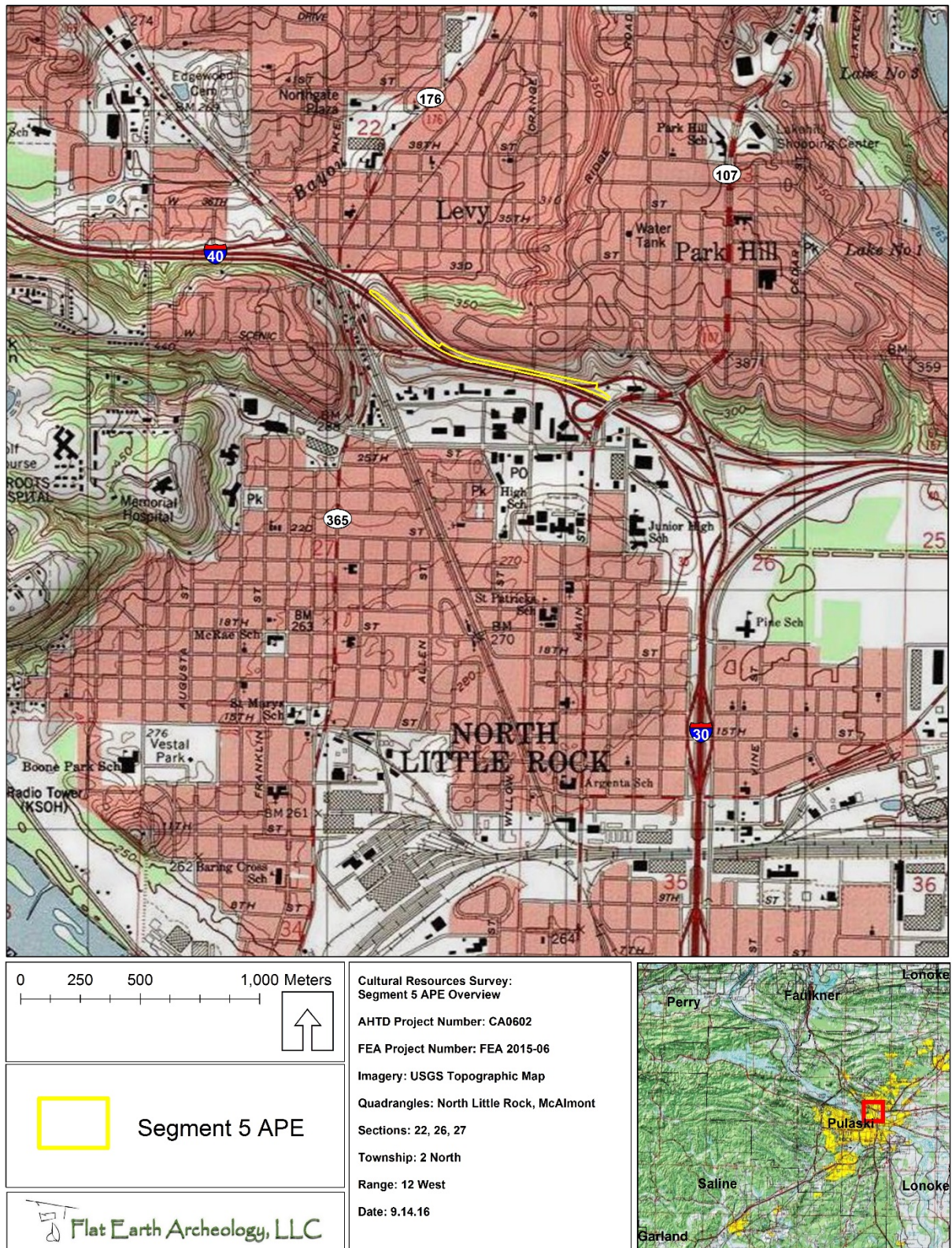
Figure 1: Overview of Segment 5 APE on Aerial Imagery

2  
3  
4



1

Figure 2: Overview of Segment 5 APE on Topographic Map

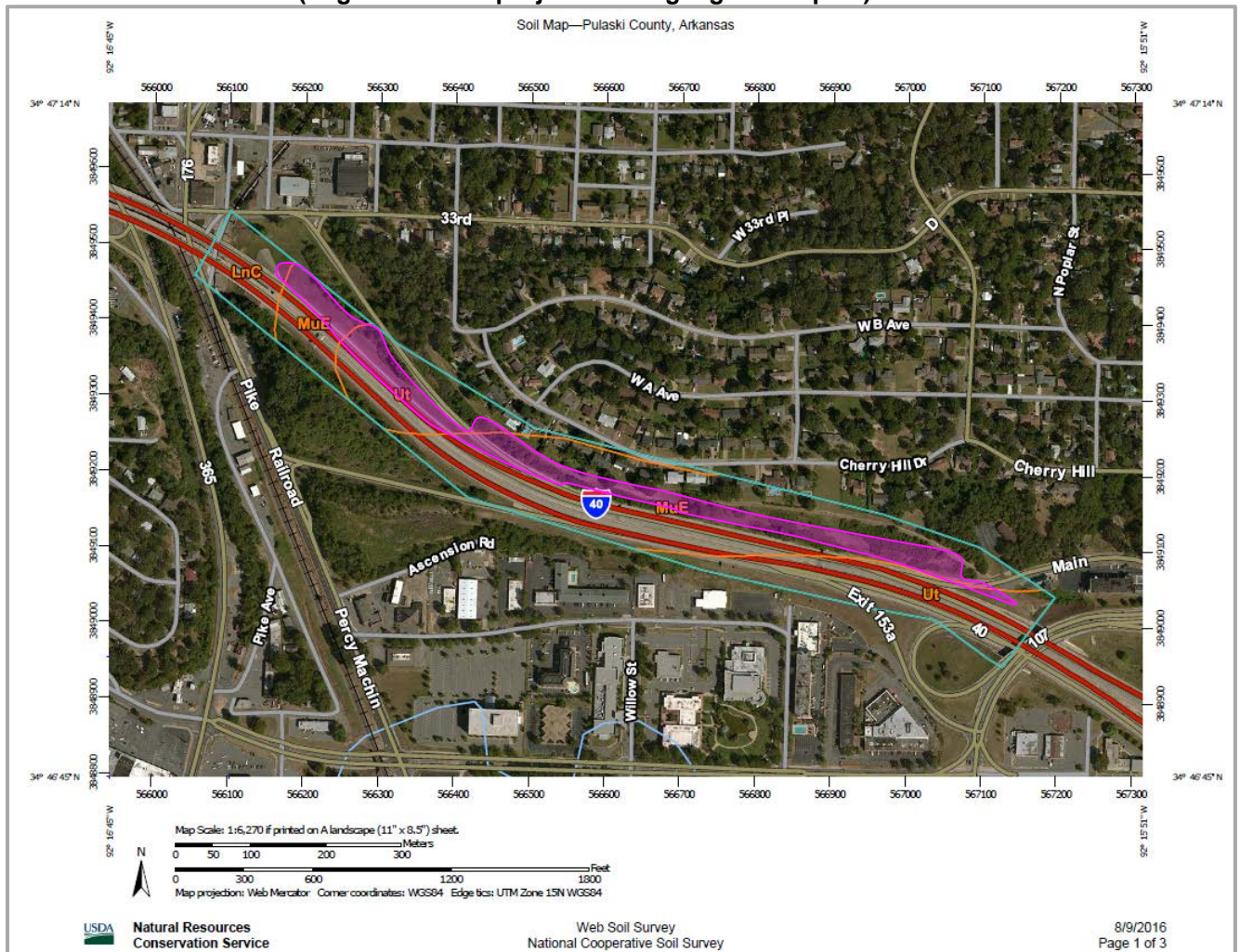
2  
3



## 2.0 Soils in Project Area

The soil types found within Segment 5 APE are the Linker-Urban land complex, 3 to 8 percent slopes; the Mountainburg-Urban land complex, 12 to 40 percent slopes; and Urban land (Figure 3). The soil types and associated soil descriptions below are taken from the USDA Web Soil Survey (Figures 4 through 8). The soil types are generally found on hill slopes and in the case of Urban land, is associated with construction, land development, and previous ground disturbance.

**Figure 3. USDA Soils Map Overview for Segment 5 APE (USDA Web Soil Survey 2016)  
(Segment 5 APE project area highlighted in pink)**



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LnC	Linker-Urban land complex, 3 to 8 percent slopes	2.8	8.1%
MuE	Mountainburg-Urban land complex, 12 to 40 percent slopes	19.8	57.3%
Ut	Urban land	12.0	34.7%
<b>Totals for Area of Interest</b>		<b>34.6</b>	<b>100.0%</b>

1 **Figure 4. USDA Soil Description for Linker-Urban land complex, 3 to 8 percent slopes (page 1)**

Map Unit Description: Linker-Urban land complex, 3 to 8 percent slopes---Pulaski County, Arkansas

## Pulaski County, Arkansas

### LnC—Linker-Urban land complex, 3 to 8 percent slopes

#### Map Unit Setting

National map unit symbol: m052

Elevation: 500 to 2,800 feet

Mean annual precipitation: 43 to 58 inches

Mean annual air temperature: 50 to 72 degrees F

Frost-free period: 200 to 260 days

Farmland classification: Not prime farmland

#### Map Unit Composition

Linker and similar soils: 50 percent

Urban land: 40 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### Description of Linker

##### Setting

Landform: Hillslopes

Landform position (three-dimensional): Head slope

Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Loamy residuum weathered from sandstone

##### Typical profile

A - 0 to 4 inches: gravelly fine sandy loam

BE - 4 to 9 inches: fine sandy loam

Bt - 9 to 21 inches: clay loam

B Ct - 21 to 30 inches: clay loam

R - 30 to 34 inches: unweathered bedrock

##### Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 4.0 inches)

##### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

8/9/2016  
Page 1 of 2

2  
3  
4  
5

**1      Figure 5. USDA Soil Description for Linker-Urban land complex, 3 to 8 percent slopes (page 2)**

Map Unit Description: Linker-Urban land complex, 3 to 8 percent slopes---Pulaski County,  
Arkansas

---

**Minor Components****Mountainburg**

*Percent of map unit: 10 percent*

**Data Source Information**

Soil Survey Area: Pulaski County, Arkansas

Survey Area Data: Version 12, Sep 28, 2015



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

8/9/2016  
Page 2 of 2

2  
3  
4  
5

**Figure 6. USDA Soil Description for Mountainburg-Urban land complex, 12 to 40 percent slopes  
(page 1)**

Map Unit Description: Mountainburg-Urban land complex, 12 to 40 percent slopes---Pulaski  
County, Arkansas

## Pulaski County, Arkansas

### MuE—Mountainburg-Urban land complex, 12 to 40 percent slopes

#### Map Unit Setting

*National map unit symbol:* m057

*Elevation:* 500 to 2,800 feet

*Mean annual precipitation:* 43 to 58 inches

*Mean annual air temperature:* 50 to 72 degrees F

*Frost-free period:* 200 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Mountainburg and similar soils:* 50 percent

*Urban land:* 40 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Mountainburg

##### Setting

*Landform:* Hills

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Parent material:* Stony, loamy residuum weathered from sandstone

##### Typical profile

*A - 0 to 1 inches:* stony fine sandy loam

*E - 1 to 6 inches:* stony fine sandy loam

*Bt - 6 to 15 inches:* very gravelly fine sandy loam

*R - 15 to 18 inches:* unweathered bedrock

##### Properties and qualities

*Slope:* 12 to 40 percent

*Depth to restrictive feature:* 12 to 20 inches to lithic bedrock

*Natural drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water storage in profile:* Very low (about 1.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* D

*Ecological site:* SANDSTONE RIDGE (R118XY007AR)



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

8/9/2016  
Page 1 of 2

**Figure 7. USDA Soil Description for Mountainburg-Urban land complex, 12 to 40 percent slopes  
(page 2)**

Map Unit Description: Mountainburg-Urban land complex, 12 to 40 percent slopes---Pulaski  
County, Arkansas

---

**Minor Components**

**Linker**

*Percent of map unit: 10 percent*

**Data Source Information**

Soil Survey Area: Pulaski County, Arkansas  
Survey Area Data: Version 12, Sep 28, 2015



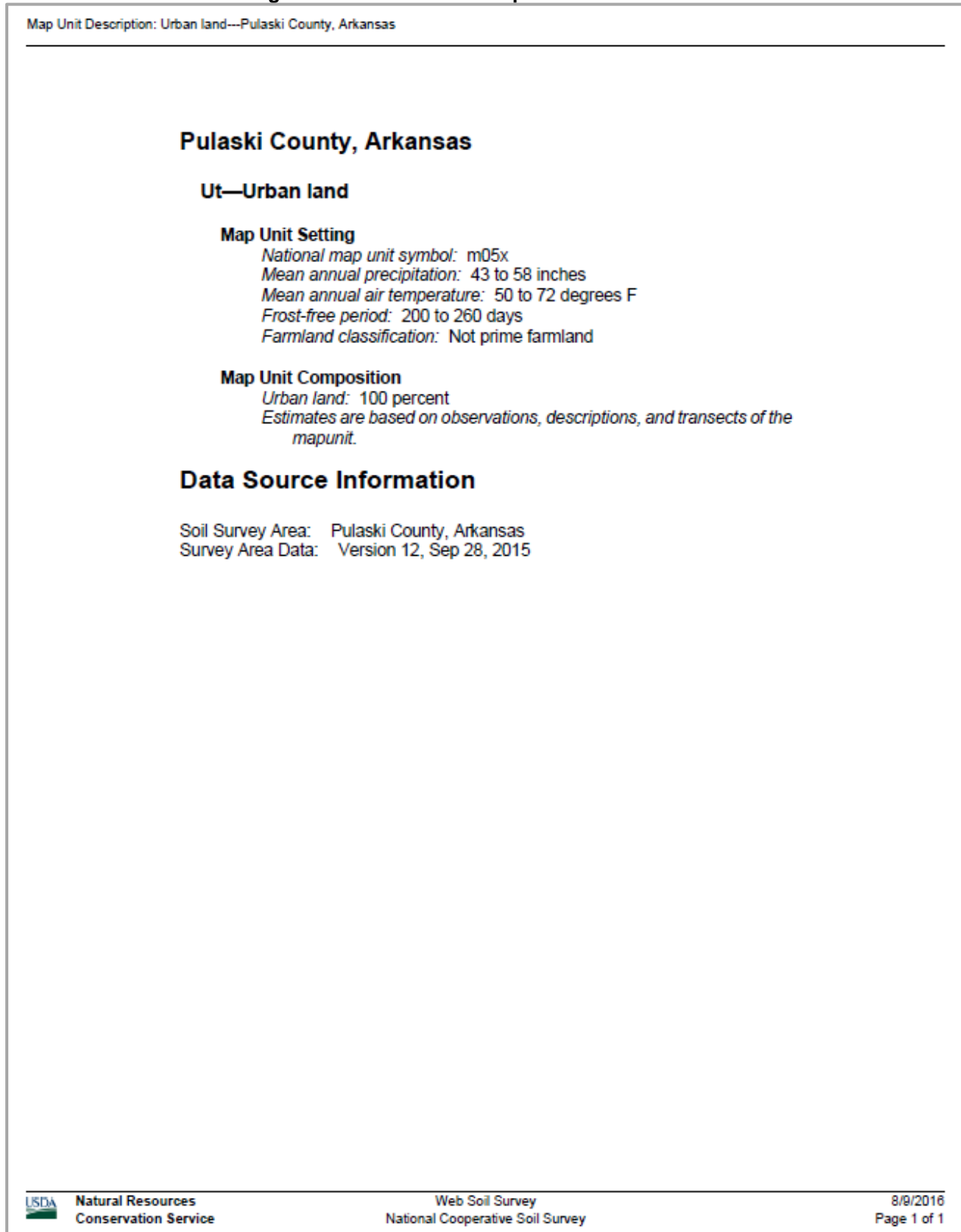
Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

8/9/2016  
Page 2 of 2



1

**Figure 8. USDA Soil Description for Urban land**2  
3  
4  
5

### 3.0 Trail of Tears

The Project Area is proximal to the Trail of Tears removal corridors in central Arkansas. Removed southeastern tribes travelled through the area with exploration parties and during removal between 1830 and 1839 (Horne 2006). As a locus of removal corridors, central Arkansas witnessed the passage of more than 40,000 tribal people travelling to Indian Territory (Paige et al. 2003:2). It is important to note that many tribes maintain proprietary data regarding removal corridors. Removal corridors are discussed in more depth in the original report. This addendum shows the nearest removal route in relation to Segment 5 APE (Figure 9).

Figure 9. Overview of Removal Corridors and the Current APE on 2015 Aerial Imagery





## 4.0 Background Research

### 4.1 General Land Office Maps

Flat Earth Archeology consulted the First Land Patent records (Table 1) and the General Land Office (GLO) maps for information regarding the history of land use in Township 2 North, Range 12 West, Sections 22, 26, and 27. The original 1819 GLO survey maps show no improvements such as agricultural fields, roads, trails, or structures within the Segment 5 APE (Figure 10). The 1855 GLO dependent resurvey map shows an unnamed roads in the Segment 5 APE, but no other improvements.

**Table 1. First Land Patent Records**

Township & Range	Section	Area	Name	Date	Acreage	Entry Type
2 North 12 West	22	SW¼ SE¼	William E. Woodruff	1839	40	Cash Sale
	26	NW¼ NW¼	William W. Stevens and George C. Watkins	1842	40	Cash Sale
	27	NE¼ NE¼	Ambrose Hudgens	1841	160	Scrip Warrant (Act of 1812)

### 4.2 Review of Arkansas Archeological Survey Site Files

According to the Arkansas Archeological Survey Site Files in the AMASDA Database, there is one recorded archeological site within a mile of the Segment 5 APE. Site 3PU736, also known as the Odd Fellows Cemetery, is a historic cemetery that was located approximately 0.18 miles from the Segment 5 APE. The burials in this cemetery were removed to another location outside of the one-mile search area during the development of the area. Modern structures now stand in location of Site 3PU736.

### 4.3 Review of Arkansas Archeological Survey Project Files

There are numerous previous cultural resources investigations within a mile of the Segment 5 APE, but all of the projects are discussed in the main report (see Section 4.1 in report dated February 2016). No additional previous investigations were found to be within a mile of Segment 5 APE in the Arkansas Archeological Survey's Project Files.

1

Figure 10. 1819 GLO Map showing Segment 5

2  
3  
4  
5

## 5.0 FIELD METHODOLOGIES AND RESULTS

### 5.1 Field Methods

Chris Branam, RPA was the principal investigator for this project. Fieldwork was conducted over the course of one day in June, 2016. Fieldwork was directed by Chris Branam, RPA. Mr. Branam was assisted by archeological field technicians Brandon Tully, Ryan Adams, Alexandra Younger, Chandra Wilson, and Nate Fosaaen.

The fieldwork consisted of a pedestrian survey with a single transect that measured 1,200 meters in length for a total of 61 shovel test locales (Figures 11, 12, and 13). Shovel tests were attempted at 20 meter intervals moving from the eastern end of Segment 5 APE to the western end of Segment 5, although most shovel tests were not excavated due to previous disturbance, extreme slope, or existing roadway (Figures 14, 16, 17, 19, 20, and 21). All soils from excavated shovel tests were screened through ¼ inch hardware mesh. Shovel tests were approximately 35 centimeters in diameter and excavated to 50 centimeters below surface except when bedrock (typically shale) was encountered at shallower depths, which was the case in most shovel tests excavated. Shovel tests were excavated by soil horizon. Shovel tests were recorded with fillable forms on an electronic tablet in the field. Soil descriptions for profiles in the shovel tests were recorded using metric depth measurements and were described using textural class terminology and Munsell Soil Color Charts. A total of five shovel tests were excavated during the Phase I survey. The remaining 56 shovel test locales were “no digs” (not excavated). See Table 2 below for soil profiles and exact locales for the shovel tests excavated. For an inventory of all shovel test locales along the transect, see Appendix B. The general soil stratigraphic sequence in Segment 5 APE was typically a yellowish brown clay subsoil over a gravelly dark yellowish brown blocky clay subsoil (B Horizon) with minimal A Horizon or top soil (Figures 15 and 18, Table 2).

### 5.2 Results

All of the shovel tests were negative for cultural materials and no cultural features or materials were observed on the surface during the pedestrian survey.



1

Figure 11: Transect Location in Segment 5 APE

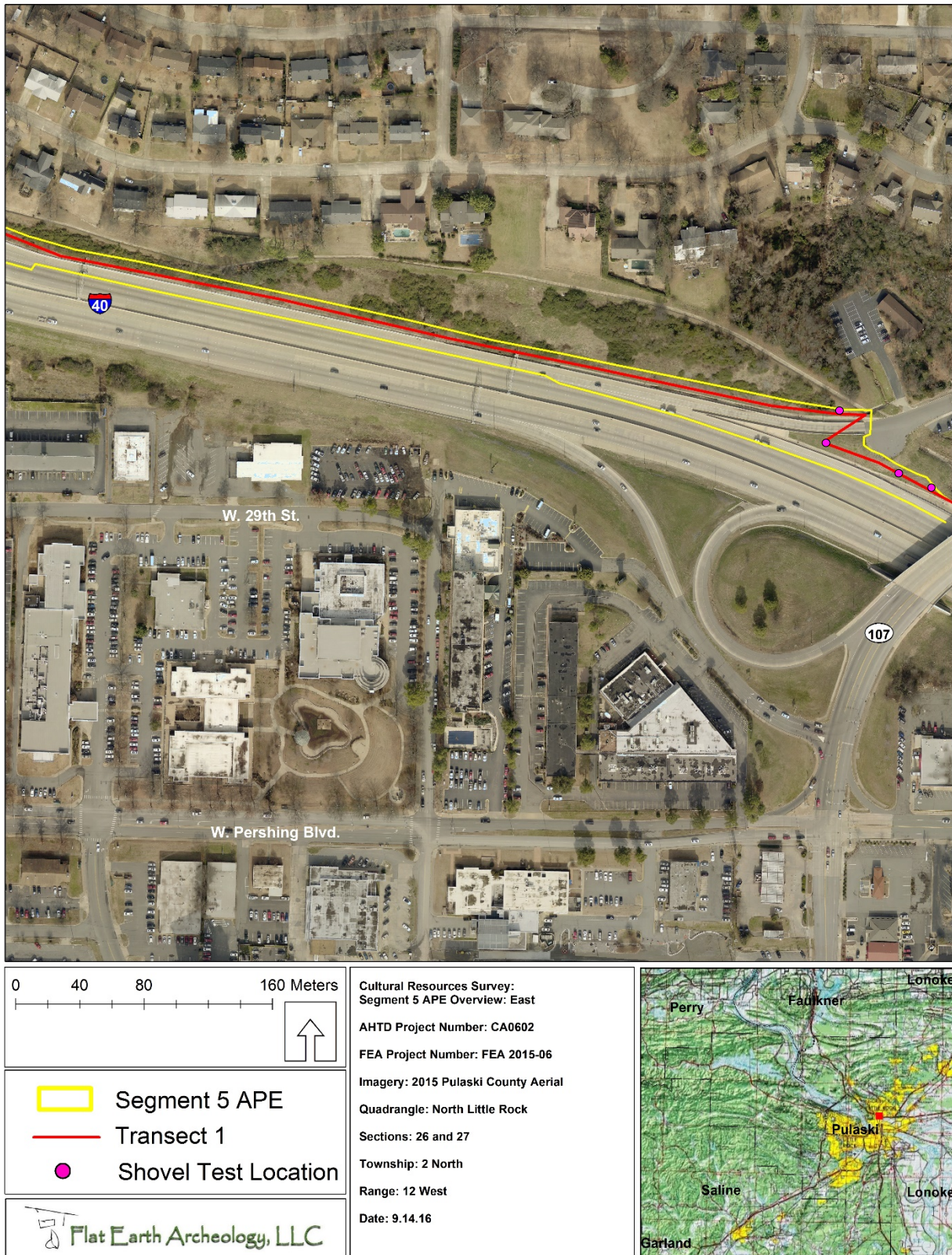


2

3

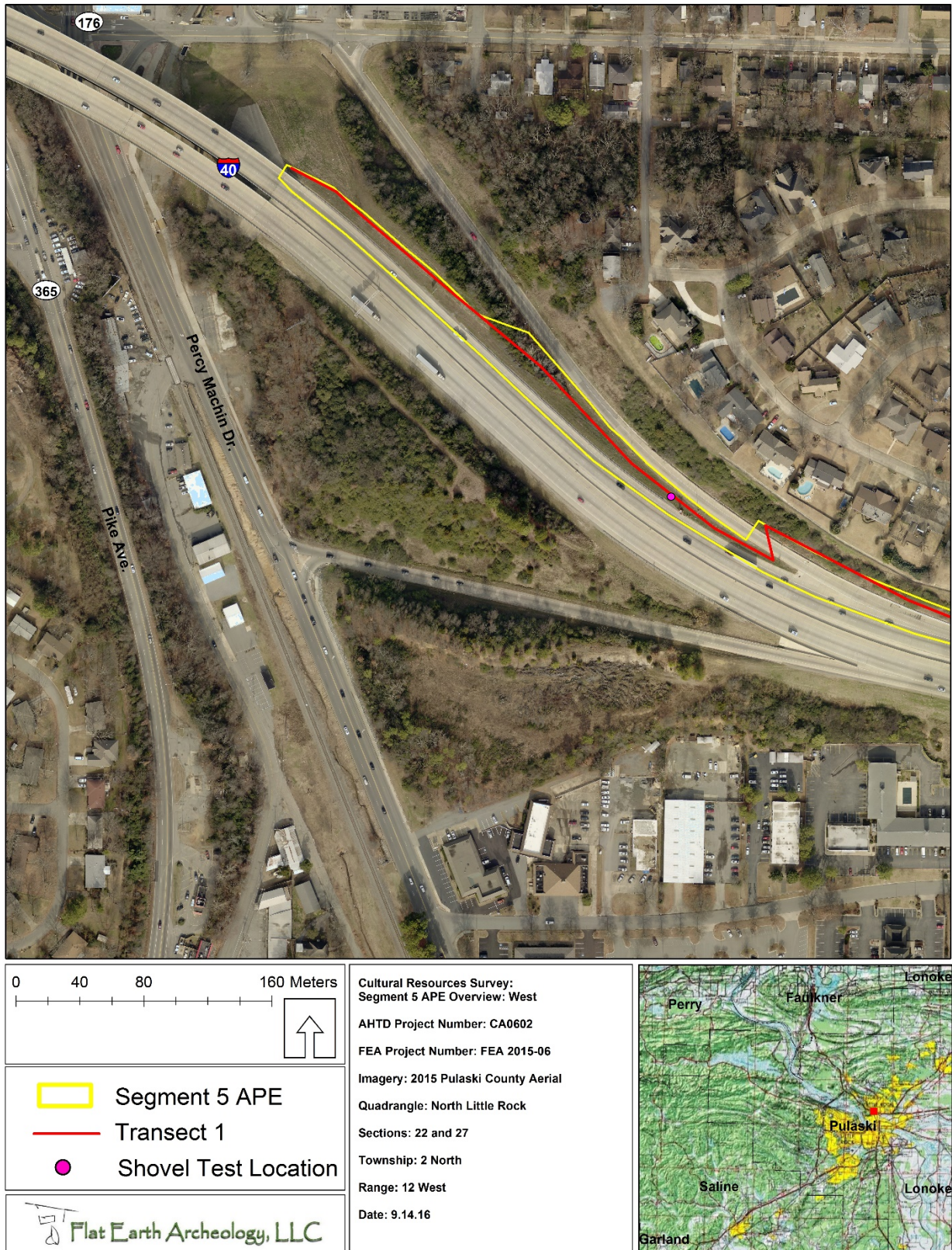


1

**Figure 12: Transect Location in Segment 5 APE (eastern half)**2  
3



1

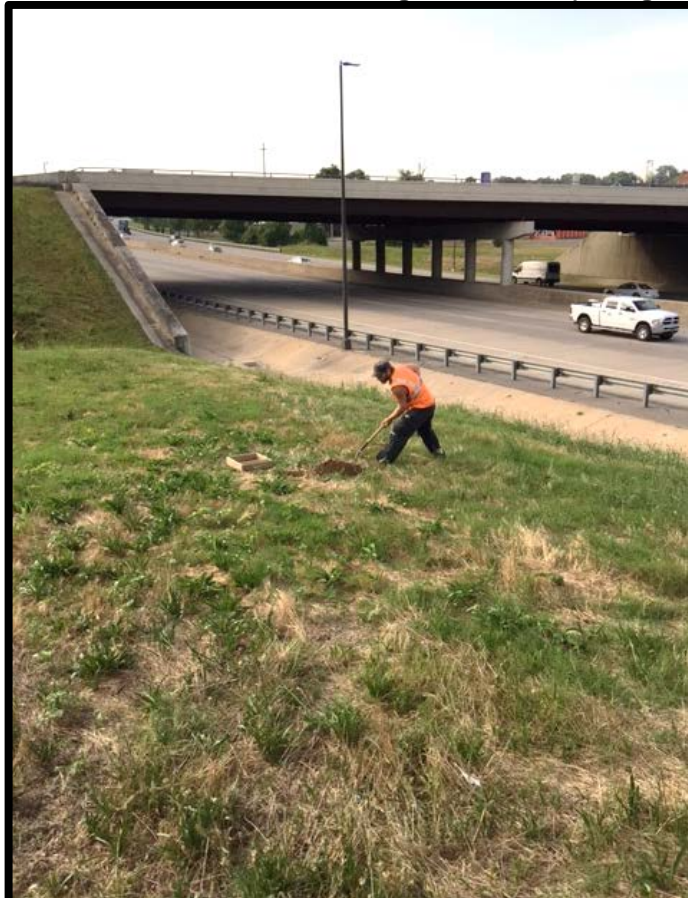
**Figure 13: Transect Location in Segment 5 APE (western half)**

2



Table 2. Shovel Test Locales and Results (Munsell Color 2009)				
S.T.	UTM Zone 15	Depth (cmbs)	Soils	Results
2	567152 E, 3849017 N	30	Stratum I (0-11 cmbs) yellowish brown (10YR5/4) clay loam Stratum II (11-34 cmbs) dark yellowish brown (10YR4/4) blocky clay with gravel deposits *terminated 30 cmbs at slate bedrock	Negative
3	567112 E, 3849035 N	34	Stratum I (0-14 cmbs) yellowish brown (10YR5/4) clay loam Stratum II (14-34 cmbs) dark yellowish brown (10YR4/4) blocky clay with gravel deposits *terminated 34 cmbs at slate bedrock	Negative
5	567097 E, 3849047 N	42	Stratum I (0-15 cmbs) yellowish brown (10YR5/4) clay loam Stratum II (15-42 cmbs) dark yellowish brown (10YR4/4) blocky clay with gravel deposits and modern liquor bottle glass fragment (disturbed context) *terminated 42 cmbs at slate bedrock	Negative
7	567098 E, 3849064 N	31	Stratum I (0-3 cmbs) brown (10YR4/3) silty loam – A Horizon Stratum II (3-31 cmbs) dark yellowish brown (10YR4/4) gravelly clay (appeared to be disturbed) *terminated at 31 cmbs at bedrock	Negative
41	566415 E, 3849243 N	19	Stratum I (0-19 cmbs) yellowish brown (10YR5/6) gravelly clay (disturbed context) *terminated at 19 cmbs at impenetrable gravels	Negative

Figure 14: Shovel Test 3 at 40 meters on Segment 5 APE (facing East/Southeast)



1

**Figure 15: Shovel Test 3 on Segment 5 APE (facing north)**2  
3  
4  
5**Figure 16. View from Shovel Test 5 at 80 meters on Segment 5 APE (facing west)**

6



1 **Figure 17. View from Shovel Test 7 at 120 meters on Segment 5 APE (facing west)**



2  
3  
4  
5  
6 **Figure 18. Shovel Test 7 on Segment 5 APE (facing north)**





1 **Figure 19. View from Shovel Test 8 at 100 meters on Segment 5 APE (facing west) – note slope**



2  
3  
4  
5 **Figure 20. View from Shovel Test 29 (facing east) – note excessive slope**



**Figure 21. View 10 meters south of Shovel Test 41 at 800 meters showing road fill slope (facing northwest)**



## 6.0 SUMMARY AND CONCLUSIONS

A Phase I cultural resources survey was conducted covering the agreed upon archeological APE along approximately 1,120 meters of additional proposed roadway widening for the supplemental agreement. A pedestrian survey was performed along a single transect measuring 1,200 meters, adequately covering the archeological APE of Segment 5. A total of five screened shovel tests were excavated on the transect. Excavation of additional shovel tests was not needed due to the extremely disturbed nature of the Segment 5 APE. No new cultural resources were identified during the survey of this segment. This is a low probability area for prehistoric cultural deposits due to the distance from a permanent water source. No further archeological work is recommended for Segment 5.

There is a realistic limitation involved with standard survey field methodology. Shovel testing is most effective in finding certain types of sites, those with relatively high artifact densities or those with abnormal soil development such as middens. Thin artifact scatters can be missed in areas where surface visibility is poor. Furthermore, deeply buried sites are difficult to identify using standard survey methodology. Flat Earth Archeology made a good faith effort to locate cultural resources in the Project Area, but this is not a guarantee that no cultural resources are present. In the event of an inadvertent discovery of human remains, burial furniture, and/or grave goods during subsequent development or modification of the Project Area, the proponent should follow the protocols outlined in Act 753 of 1991, as amended (Arkansas Grave Protection Act).

## 7.0 REFERENCES CITED

- Horne, Amber M.  
2006 *Footprints Across Arkansas: Trail of Tears Removal Corridors in Arkansas for the Cherokees, Chickasaws, Choctaws, Creeks, and Seminoles*. Little Rock, AR: Department of Arkansas Heritage and the Arkansas Archeological Survey.
- Munsell Color  
2009 *Munsell Soil Color Charts*. Revised Edition. Macbeth Division of Kollmorgen Instruments Corporation. New Windsor, New York.
- National Park Service  
2015 Trail of Tears. Electronic Document, <http://www.nps.gov/trte/index.htm>, accessed October 19, 2015.
- Paige, Amanda L., Fuller L. Bumpers, and Daniel F. Littlefield  
2003 *The North Little Rock Site on the Trail of Tears National Historic Trail: Historical Contexts Report*. American Native Press Archives, University of Arkansas at Little Rock.
- United States Department of Agriculture  
2015 Web Soil Survey. Electronic document, <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>, accessed December 1, 2015.





**Chris M. Branam, RPA**

117 Financial Drive

Cabot, AR 72023

Phone: 501.286.7124 Email: [chrisb@flateartharcheology.com](mailto:chrisb@flateartharcheology.com)

**EDUCATION**

---

A.B.D. History Ph.D. University of Arkansas

Fayetteville, Arkansas

(Expected Graduation Date 2012)

Dissertation Topic: Small-Scale Slaveholders and Slaves in the Early Twentieth Century Trans-Mississippi West, a Social History of Non-Plantation Slavery in Arkansas and Missouri.

December 2003 University of Arkansas

Fayetteville, Arkansas

M.A. in Anthropology (Historic Archeology Emphasis)

Thesis: A Database of Steamboat Wrecks on the Arkansas River between Fort Smith, Arkansas, and Arkansas Post, Arkansas, from 1830-1900.

December 1997 University of Arkansas at Little Rock Little

Rock, Arkansas

B.A. in Anthropology

Minor in Philosophy/Religious Studies

**RESEARCH INTERESTS**

---

- Historic archeology and nautical archeology
- Research of historic river transportation in Arkansas and the Southeastern United States
- Early American Ceramics
- Late-eighteenth to mid-nineteenth century settlement patterns, economics, cultures, and land use in the American South
- Small-Scale Slaveholders and Slaves in the early nineteenth century Trans-Mississippi West, an Examination of Non-Plantation Slavery in Arkansas and Missouri.
- Eighteenth and nineteenth century distilling processes, drinking habits, and taverns in the southern Colonies/States and Territories (as a part of an Arkansas Humanities Council grant to Black River Technical College located in Pocahontas, Arkansas)
- Class issues and social history related to small-scale slavery in the Old Southwest, particularly in the Arkansas and Missouri Territories (as a part of an Arkansas Humanities Council grant to Black River Technical College and PhD Dissertation)

## Appendix A: Qualifications for Chris Branam, Principal Investigator

### WORK EXPERIENCE

---

August 2008 to present **Flat Earth Archeology, LLC** Cabot, Arkansas

*Principal Investigator/Archeologist*

- Perform archeological surveys and background research for cultural resource management projects in Arkansas and surrounding states
- Perform Phase II testing and Phase III mitigation for cultural resource management projects
- Author reports resulting in archeological investigations and aiding clients with Section 106 or other compliance needs

December 2008 to September 2011 **Arkansas Highway and Transportation Dept**  
*Archeologist*

- Perform archeological studies and surveys for various projects in Arkansas
- Research for and author reports resulting from archeological work performed, giving recommendations regarding archeological clearance and site evaluations
- Evaluate and comment on reports by archeological consultants contracted by AHTD
- Give archeological presentations to public and academic conferences

January 2005 to December 2008 **SPEARS, Inc.** West Fork, Arkansas  
*Archeological Field Supervisor*

- Supervised and directed various Section 106 (archeological survey) projects throughout Arkansas, directed fieldwork and research, and authored technical reports for the projects
- Analyzed, researched, and wrote descriptions regarding the cultural significance of selected historic artifacts from the Jacob Wolf House excavations

May 2004 to January 2005 **SPEARS, Inc.** West Fork, Arkansas  
*Archeological Field Technician*

- Worked on a Phase III Archeological Mitigation of four Late Woodland/Early Mississippian sites in Northeastern Arkansas

May 1999 – March 2000 **R. Christopher Goodwin & Assoc.** New Orleans  
and May 2002 – August 2002 (seasonal)  
*Archeological Field Crew Chief*

- Worked on various Phase I archeological survey projects for Highway and Pipeline projects in Alabama, Arkansas, Florida, Georgia, Mississippi, Louisiana, South Carolina, Tennessee, and Texas.
- Worked on a Phase III Archeological Mitigation for a Prehistoric site in Northern Tennessee on the Cumberland River for the United States Army Corps of Engineers.

## TEACHING EXPERIENCE

---

- ANTH 2310: Cultural Anthropology. An introduction to the field of cultural anthropology with emphasis on basic anthropological concepts, the nature of culture, the development of civilizations, human social behavior, and the study of people and customs around the world. Pulaski Technical College, North Little Rock, Arkansas.  
(Fall 2005; Spring and Fall 2006; Spring, Summer, and Fall 2007; Spring, Summer, and Fall 2008; Spring, Summer, and Fall 2009; Spring, Summer, and Fall 2010)
- HIST 1113: World Civilizations I. Introduces the major civilizations of the world in their historical context to 1500. University of Arkansas, Fayetteville, Arkansas. (Fall 2008)

## PRESENTATIONS

---

Branam, Chris

2009 *AHTD Policies Regarding Historic Cemeteries and Burials*. Presented at the Memorial In May – Cemetery Preservation Conference held in Jonesboro, Arkansas.

2008 *Examining the Motives, Means, and Rhetoric of Disfranchisement in Arkansas, 1888 – 1892*. Paper presented at the Mid-American Conference for History held in Springfield, Missouri.

2008 *The Lubricant That Allowed America to Move West: The Role of Distilled Spirits in the Trans-Mississippi Region during the Early Nineteenth Century*. Paper presented at the Arkansas Historical Association Sixty-Seventh Annual Conference held in Eureka Springs, Arkansas.

2002 *Steamboat Wrecks on the Arkansas River between Fort Smith and Arkansas Post*. Paper presented at the Arkansas Archeological Survey, Fayetteville, Arkansas

1997 *Evolution of the Trireme*. Paper presented at the University of Arkansas at Little Rock Anthropology Symposium held in Little Rock, Arkansas

## OTHER TEACHING & WORK RELATED EXPERIENCE

---

- History Graduate Teaching Assistant: University of Arkansas, Western Civilization II, Spring 2008
- History Graduate Teaching Assistant: University of Arkansas, Western Civilization I, Fall 2007
- Seasonal Interpreter: Toltec Mounds Archeological State Park, 1997
- Graduate Teaching Assistant: University of Arkansas at Little Rock, Archeology Field School, 1997
- Teaching Assistant: University of Arkansas at Little Rock, Archeology Field School, 1996

## Appendix A: Qualifications for Chris Branam, Principal Investigator

### **AWARDS**

---

- 2008 Recipient of the Mary D. Hudgins Fellowship in Arkansas History from the University of Arkansas History Department.
- 1997 Recipient of the Student Fieldwork in Anthropology Award (now known as the Mark J. Hartmann Anthropology Student Fellowship) from the University of Arkansas at Little Rock.

### **CURRENT PROFESSIONAL MEMBERSHIPS**

---

- Registry of Professional Archaeologists
- Archaeological Institute of America
- Arkansas Historical Association
- Southern Historical Association

### **PUBLICATIONS**

---

Branam, Chris

- 2010 "Rethinking Disfranchisement in Arkansas: The Election Law of 1891 and The Poll Tax Amendment of 1892" *Arkansas Historical Quarterly*, Fall 2010.

Branam, Chris

- 2009 *Slave Codes*. Entry in The Encyclopedia of Arkansas History and Culture.  
<http://www.encyclopediaofarkansas.net/encyclopedia/entry-detail.aspx?search=1&entryID=5054>

Branam, Chris

- 2008 *Election Law of 1891*. Entry in The Encyclopedia of Arkansas History and Culture.  
<http://www.encyclopediaofarkansas.net/encyclopedia/entry-detail.aspx?search=1&entryID=4033>

### **ARCHEOLOGICAL REPORTS AND UNPUBLISHED WORK**

---

Over 200 archeological reports authored and co-authored to date. The following is a small sample:

Branam, Chris

- 2015 *A Cultural Resources Survey of the Proposed 20-Acre Cornerstone Development Site in Beebe, White County, Arkansas*. For B & F Engineering

Branam, Chris

- 2015 *A Cultural Resources Survey of the Proposed "Lee Mackey 11-28-17" Well Pad Location in Woods County, Oklahoma*. For Eagle Environmental

Branam, Chris

- 2015 *Phase I Cultural Resources Survey of the 110-Acre Site for the Proposed Fayetteville Regional Park in Washington County, Arkansas*. For the City of Fayetteville and Garver Engineering

## Appendix A: Qualifications for Chris Branam, Principal Investigator

Branam, Chris

2014 *Memorandum of Agreement and Treatment Plan development for the Phase III Mitigation of Sites 3BE714 and 3BE906 in Benton County, Arkansas.* For the Arkansas Highway & Transportation Department

Branam, Chris

2014 *Site Monitoring of Ground Disturbing Activities at Site 3WA304 Associated with Reach B of the Illinois River Mitigation Bank Project.* For Streamworks Mitigation Services

Branam, Chris

2014 *Phase II Cultural Resources Significance Testing of Site 3WA235 in Fayetteville, Washington County, Arkansas.* For the City of Fayetteville

Branam, Chris

2014 *Phase I Cultural Resources Survey for the Proposed Highland Kings Cell Tower in Caddo Parish, Louisiana*

Branam, Chris

2014 *Phase I Cultural Resources Survey for the Albemarle 24" Transit Pipeline Replacement in Columbia County, Arkansas.* For Albemarle Corp.

Branam, Chris

2014 *Phase I Cultural Resources Survey for the Big Dam Bridge Pit Stop in Little Rock, Pulaski County, Arkansas.* For the City of Little Rock

Branam, Chris

2014 *Cultural Resources Survey for the 100 Mile Mt. Ida Waterline Extension, Montgomery County, Arkansas.* For the City of Mount Ida.

Branam, Chris

2014 *Statewide NHPA Archeological Inventory of 857 Acres at Robinson Maneuver Training Center.* For the Military Department of Arkansas

Branam, Chris

2013 *A Cultural Resources Survey of a Proposed Mitigation Bank Project of the Illinois River Property in Washington County, Arkansas.* For Streamworks Mitigation Services

Branam, Chris

2013 *Phase I Cultural Resources Survey for a Proposed New Firebreak and Fence Corridor at Robinson Maneuver Training Center.* For the Military Department of Arkansas

Branam, Chris

2013 *Archeological Survey of the Proposed Avinger Cell Tower in Cass County, Texas*

Branam, Chris

2013 *NHPA Archaeological Inventory of 1,709 Acres at Robinson Maneuver Training Center and Fort Chaffee Joint Maneuver Training Center, Arkansas.* For the Military Department of Arkansas

Branam, Chris

2013 *A Cultural Resources Survey for the Jonesboro Roundabout at the Intersection of Airport Road and Aggie Road, Craighead County, Arkansas.* For Garver Engineering.

## Appendix A: Qualifications for Chris Branam, Principal Investigator

Branam, Chris

2012 *Phase I Cultural Resources Survey of 2,334 Acres at Robinson Maneuver Training Center and Fort Chaffee Joint Maneuver Training Center, Arkansas.* For the Military Department of Arkansas

Branam, Chris

2012 *A Cultural Resources Survey for the ONEOK Canadian Valley 40.7 Mile Pipeline Project, Oklahoma.* For ONEOK

Branam, Chris

2012 *A Cultural Resources Survey for the Yonce Lake Project, Okmulgee County, Oklahoma.* For Terracon

Branam, Chris

2012 *Phase I Survey of the Proposed Tributary to Little Osage Creek Drainage Improvement for the City of Bentonville, Benton County, Arkansas.*

Branam, Chris

2012 *A Cultural Resources Survey for the Layfield-Coushatta Cell Tower Location, Red River Parish, Louisiana.*

Branam, Chris

2012 *A Cultural Resources Survey for the Eudora Cell Tower Location, Polk County, Missouri.*

Branam, Chris

2011 *Phase II Archeological Testing of Four Sites at Robinson Maneuver Training Center in Faulkner County, Arkansas.* For the Military Department of Arkansas

Branam, Chris

2011 *Phase II Archeological Testing of 19 Sites at Robinson Maneuver Training Center and 19 Sites at Fort Chaffee Joint Maneuver Training Center.* For the Military Department of Arkansas

Branam, Chris

2011 *Phase I Survey for the Eureka Gardens Sewer Line Improvements Project, Pulaski County, Arkansas.* For Marlar Engineering

Branam, Chris

2011 *Phase I Survey for the Clark County Industrial Park - Tract 7, Clark County, Arkansas.* For Terracon

Branam, Chris

2011 *Phase I Survey for the Proposed AR1513 Jonesboro Airport Communications Antenna, Craighead County, Arkansas.*

Branam, Chris

2010 *Phase II Archeological Testing of Six Sites at Robinson Maneuver Training Center and Seven Sites at Fort Chaffee Joint Maneuver Training Center.* For the Arkansas Military Department

Branam, Chris

2010 *A Cultural Resources Survey of Proposed Arkansas Highway and Transportation Department Jobs 090169 – Highway 7 Passing Lanes; 090213 – Highway 7 Safety Improvements; and 009784 – Buffalo River Bridge and Approaches on State Highway 7 at Pruitt, Newton County.* For the Arkansas Highway and Transportation Department.

## Appendix A: Qualifications for Chris Branam, Principal Investigator

Branam, Chris

2010 *A Cultural Resources Survey of Proposed Arkansas Highway and Transportation Department Job FA4510, Searcy County Line – Northwest (Phase I)(Reconstruction of County Road 6), Marion County, Arkansas.* For the Arkansas Highway and Transportation Department.

Branam, Chris

2010 *A Cultural Resources Survey of the Proposed James Fork Water Line Project in Scott County, Arkansas.* Flat Earth Archeology Project Report 2010-39. Report Submitted to the James Fork Regional Water District.

Branam, Chris

2009 *Phase II Archeological Testing of Six Archeological Sites at the Robinson Maneuver Training Center, Pulaski and Faulkner Counties, Arkansas.* Flat Earth Archeology Project Report 2009-43. Report Submitted to Arkansas Army National Guard.

Branam, Chris

2009 *Phase II Testing of Archeological Site 3WA1383 for Arkansas Highway and Transportation Department Job 040411, Washington County, Arkansas.* For the Arkansas Highway and Transportation Department.

Branam, Chris

2009 *A Cultural Resources Survey for a Proposed Cell Tower Near Fort Smith, Sebastian County, Arkansas.* Flat Earth Archeology Project Report 2009-1. Report Submitted to White Buffalo Environmental, Inc. of Tulsa, OK.

Branam, Chris

2009 *A Cultural Resources Survey of Proposed Arkansas Highway and Transportation Department Job 061202, Stagecoach Road (Highway 5) Saline County Line to Otter Creek Road, Pulaski County.* For the Arkansas Highway and Transportation Department.

Branam, Chris

2009 *Archeological Site Revisits and Assessments for the Stringtown Road Water Line Extension, Newton County, Arkansas.* Flat Earth Archeology Project Report 2009-58. Report Submitted to Blaylock Threat Engineers, Inc.

Branam, Chris and Erik Masterson

2008 *A Cultural Resources Survey for a Proposed Cell Tower Near Sulphur Springs, Benton County, Arkansas.* Flat Earth Archeology Project Report 2008-5. Report Submitted to Peregrine Environmental of Bryant, AR.

Branam, Chris and Erik Masterson

2008 *A Cultural Resources Survey for a Proposed Cell Tower Near Fort Smith, Sebastian County, Arkansas.* Flat Earth Archeology Project Report 2008-4. Report Submitted to White Buffalo Environmental, Inc. of Tulsa, OK.

Branam, Chris and Erik Masterson

2008 *A Cultural Resources Survey for a Proposed Cell Tower Near Johnson, Washington County, Arkansas.* Flat Earth Archeology Project Report 2008-3. Report Submitted to Trileaf Corporation of Grimes, IA.

Branam, Chris and Erik Masterson

2008 *A Cultural Resources Survey for a Proposed Cell Tower Near Mountainburg, Crawford County, Arkansas.* Flat Earth Archeology Project Report 2008-2. Report Submitted to Trileaf Corporation of Grimes, IA.

## Appendix A: Qualifications for Chris Branam, Principal Investigator

Branam, Chris and Erik Masterson

2008 *A Cultural Resources Survey for a Proposed Cell Tower Near Pottsville, Pope County, Arkansas.* Flat Earth Archeology Project Report 2008-1. Report Submitted to White Buffalo Environmental, Inc. of Tulsa, OK.

Branam, Chris and Carol S. Spears

2008 *A Cultural Resources Survey of 1,743 Acres in the Oden Ranger District of the Ouachita National Forest, Montgomery County, Arkansas.* SPEARS Project Report 195.

Branam, Chris

2008 *A Cultural Resources Survey for a Proposed Cell Tower near Oak Grove, Carroll County, Arkansas.* Report submitted to Terracon Consultants, Inc., Bryant, Arkansas.

Branam, Chris

2008 *A Cultural Resources Survey of the Proposed Water Line North of Steadman Road in the Prairie Grove Battle Field State Park, Washington County, Arkansas.* SPEARS Project Report 193.

Branam, Chris

2008 *A Cultural Resources Survey of the Proposed Water System Improvements for the Rackley Mountain Extension, Crawford County, Arkansas.* Report submitted to Hawkins-Weir Engineers, Inc., Van Buren, Arkansas. SPEARS Project Report 192.

Melissa Zabecki and Chris Branam

2007 *A Cultural Resources Survey for the Proposed Waste Area No. 7 (Former Barrow Pit), Pulaski County, Arkansas.* SPEARS Project Report 189.

Branam, Chris and Carol S. Spears

2007 *A Cultural Resources Survey in the Bayou Ranger District of the Ozark National Forest, Conway, Pope, and Van Buren Counties, Arkansas.* SPEARS Project Report 185.

Branam, Chris and Carol S. Spears

2007 *A Cultural Resources Survey for the Proposed Sewer Line Extension in Pocahontas and Shannon, Randolph County, Arkansas.* SPEARS Project Report 184.

Branam, Chris and Carol S. Spears

2007 *A Cultural Resources Survey for the Proposed Tumbling Shoals Public Water Line, Cleburne County, Arkansas.* SPEARS Project Report 183.

Branam, Chris and Carol S. Spears

2007 *A Cultural Resources Survey of Campgrounds "A" and "C" at Lake Catherine State Park, Hot Springs County, Arkansas.* SPEARS Project Report 181.

Spears, Carol S. and Chris Branam

2007 *A Cultural Resources Survey of the Proposed River Ridge Development and Testing at Site 3PI565 on the Little Missouri River, Pike County, Arkansas.* SPEARS Project Report 177.

Spears, Carol S., Melissa Zabecki, and Chris Branam

2007 *A Cultural Resources Survey of the Proposed Water and Sewer Line Improvements for the City of Pea Ridge, Benton County, Arkansas.* SPEARS Project Report 175.

Branam, Chris

2006 *A Cultural Resources Survey of the Hot Spring County Industrial Park at Malvern, Hot Spring County, Arkansas.* SPEARS Project Report 174.



## Appendix A: Qualifications for Chris Branam, Principal Investigator

Branam, Chris

2006 *A Cultural Resources Survey of the Proposed Shadow Ridge Subdivision Development at Pickles Gap, Faulkner County, Arkansas.* Report submitted to Tim Tyler Surveying, Conway, Arkansas. SPEARS Project Report 173.

Branam, Chris

2006 *A Cultural Resources Survey of the Proposed Water Line Improvements by the Western Greene County Regional Water District, Greene County, Arkansas.* Report submitted to NRS Consulting, Inc., Jonesboro, Arkansas. SPEARS Project Report 172.

Spears, Carol S., Chris Branam, Christopher M. Page, Robin F. Bowers, Glenda Cade, Leslie Walker, and Robert H. Lafferty, III

2006 *Archeological Investigations at the Wolf House Site Volume III: Excavations Under the North Pen and Recommendations for Future Studies.* Draft Report in Review.

Branam, Chris and Carol S. Spears

2006 *A Cultural Resources Survey of the Proposed Widening of the Runway and Taxiway at the Clinton Municipal Airport, Van Buren County, Arkansas.* Report submitted to Grimes Consulting Engineers, Inc., Little Rock, Arkansas. SPEARS Project Report 170.

Branam, Chris and Carol S. Spears

2006 *A Cultural Resources Survey of the Proposed Utility Line Corridor Near the Joplin Recreational/Mountain Harbor Area on Ouachita Lake, Montgomery County, Arkansas.* Report submitted to the U.S. Army Corps of Engineers, Vicksburg District. SPEARS Project Report 169.

Branam, Chris and Carol S. Spears

2006 *A Cultural Resources Survey of the Proposed East Side Parallel Taxiway at the Rogers Municipal Airport, Rogers, Benton County, Arkansas.* An addendum report (to SPEARS 161) submitted to Delta Airport Consultants, Inc., Richmond, Virginia. SPEARS Project Report 167.

Branam, Chris and Carol S. Spears

2006 *A Cultural Resources Survey of 12 Proposed Seismic Lines on the Ozark-St. Francis National Forests, Conway, Franklin, Johnson, Pope, and Van Buren Counties, Arkansas.* Report submitted to Kingfisher Exploration Services, Inc., Beaumont, Texas. SPEARS Project Report 166.

Branam, Chris and Carol S. Spears

2005 *A Cultural Resources Survey of Proposed Seismic Lines on the Ozark National Forest, Pope, Van Buren and Conway Counties, Arkansas.* Report submitted to Kingfisher Exploration Services, Inc., Beaumont, Texas. SPEARS Project Report 165.

Branam, Chris and Carol S. Spears

2005 *An Archeological Survey of the Proposed Borrow Dirt Pit at the I-40/Highway 326 Interchange, Pope County, Arkansas.* Report submitted to Gilbert Central Corp., Russellville, Arkansas. SPEARS Project Report 164.

## Appendix A: Qualifications for Chris Branam, Principal Investigator

Branam, Chris and Carol S. Spears

- 2005 *An Archeological Survey of the Proposed Lakeland Harbor Condominium Development on Lake Hamilton, Garland County, Arkansas.* Report submitted to K&S Developments, Hot Springs, Arkansas. SPEARS Project Report 163.

Branam, Chris and Carol S. Spears

- 2005 *A Cultural Resources Survey of the Proposed Oak Shores Boat Ramp on Lake Hamilton, Garland County, Arkansas.* Report submitted to Dale Horn (Two D, LLC), Hot Springs, Arkansas. SPEARS Project Report 162.

Branam, Chris and Carol S. Spears

- 2005 *An Archeological Survey of the Proposed West Taxiway and "Basin B" at Rogers Municipal Airport, Benton County, Arkansas.* Report submitted to Delta Airport Consultants, Inc., Richmond, Virginia. SPEARS Project Report 160.

Branam, Chris and Carol S. Spears

- 2005 *A Cultural Resource Survey of the Proposed Oak Shores Boat Ramp On Lake Hamilton, Garland County, Arkansas.* SPEARS Project Report No. 162. Prepared for Two D, LLC.

Branam, Chris and Carol S. Spears

- 2005 *A Cultural Resources Survey of the Proposed Westside Taxiway and "Basin B", Rogers Municipal Airport, Rogers, Arkansas.* SPEARS Project Report No. 160. Prepared for Delta Environmental Consulting Co.

Branam, Chris

- 2003 *Steamboat Wrecks on the Arkansas River between Fort Smith and Arkansas Post, 1830-1900.* Unpublished Master's thesis, Department of Anthropology, University of Arkansas, Fayettevill

## Appendix B: Inventory of Shovel Tests in Segment 5

Inventory of Shovel Tests in Segment 5			
Shovel Test	Meters	Result	Notes
1	0	Negative	No Dig – previous disturbance
2	20	Negative	
3	40	Negative	
4	60	Negative	
5	80	Negative	
6	100	Negative	No Dig – previous disturbance
7	120	Negative	
8	140	Negative	No Dig – previous disturbance & slope
9	160	Negative	No Dig – previous disturbance & slope
10	180	Negative	No Dig – previous disturbance & slope
11	200	Negative	No Dig – previous disturbance & slope
12	220	Negative	No Dig – previous disturbance & slope
13	240	Negative	No Dig – previous disturbance & slope
14	260	Negative	No Dig – previous disturbance & slope
15	280	Negative	No Dig – previous disturbance & slope
16	300	Negative	No Dig – previous disturbance & slope
17	320	Negative	No Dig – previous disturbance & slope
18	340	Negative	No Dig – previous disturbance & slope
19	360	Negative	No Dig – previous disturbance & slope
20	380	Negative	No Dig – previous disturbance & slope
21	400	Negative	No Dig – previous disturbance & slope
22	420	Negative	No Dig – previous disturbance & slope
23	440	Negative	No Dig – previous disturbance & slope
24	460	Negative	No Dig – previous disturbance & slope
25	480	Negative	No Dig – previous disturbance & slope
26	500	Negative	No Dig – previous disturbance & slope
27	520	Negative	No Dig – previous disturbance & slope
28	540	Negative	No Dig – previous disturbance & slope
29	560	Negative	No Dig – previous disturbance & slope
30	580	Negative	No Dig – previous disturbance & slope
31	600	Negative	No Dig – previous disturbance & slope
32	620	Negative	No Dig – previous disturbance & slope
33	640	Negative	No Dig – previous disturbance & slope
34	660	Negative	No Dig – previous disturbance & slope
35	680	Negative	No Dig – previous disturbance & slope
36	700	Negative	No Dig – previous disturbance & slope
37	720	Negative	No Dig – previous disturbance & slope
38	740	Negative	No Dig – previous disturbance & slope
39	760	Negative	No Dig – previous disturbance & slope

## Appendix B: Inventory of Shovel Tests in Segment 5

Inventory of Shovel Tests in Segment 5			
Shovel Test	Meters	Result	Notes
40	780	Negative	No Dig – previous disturbance & slope
41	800	Negative	
42	820	Negative	No Dig – previous disturbance (road fill)
43	840	Negative	No Dig – previous disturbance (road fill)
44	860	Negative	No Dig – previous disturbance (road fill)
45	880	Negative	No Dig – previous disturbance (road fill)
46	900	Negative	No Dig – previous disturbance (road fill)
47	920	Negative	No Dig – previous disturbance (road fill)
48	940	Negative	No Dig – previous disturbance (road fill)
49	960	Negative	No Dig – previous disturbance (road fill)
50	980	Negative	No Dig – previous disturbance (road fill)
51	1000	Negative	No Dig – previous disturbance (road fill)
52	1020	Negative	No Dig – previous disturbance (road fill)
53	1040	Negative	No Dig – previous disturbance (road fill)
54	1060	Negative	No Dig – previous disturbance (road fill)
55	1080	Negative	No Dig – previous disturbance (road fill)
56	1100	Negative	No Dig – previous disturbance (road fill)
57	1120	Negative	No Dig – previous disturbance (road fill)
58	1140	Negative	No Dig – previous disturbance (road fill)
59	1160	Negative	No Dig – previous disturbance (road fill)
60	1180	Negative	No Dig – previous disturbance (road fill)
61	1200	Negative	No Dig – previous disturbance (road fill)