Dear Mr. Correa:

The Environmental Division has reviewed the referenced project and it falls within the definition of the Tier 3 Categorical Exclusion as defined by the ArDOT/FHWA Memorandum of Agreement on the processing of Categorical Exclusions. The following information is included for your review and, if acceptable, approval as the environmental documentation for this project.

The purpose of this project is to replace a substandard bridge on Highway 27 over Deer Creek in Montgomery County. Total length of the project is approximately 0.32 mile. A project location map is enclosed.

The existing roadway consists of two 11-foot wide paved travel lanes with 5-foot wide shoulders. Proposed roadway improvements maintain the two 11-foot wide paved travel lanes but will increase the paved shoulders to 6-feet wide. Approximately 2.3 acres of additional right of way will be required for this project.

The existing bridge over Deer Creek is a 202’ x 27” five-span reinforced concrete deck on steel I-beams with concrete multi-column abutments and intermediate bents on spread footings.

The proposed bridge is a 282’ x 37’ four-span continuous composite w-beam unit with single column intermediate bents on drilled shafts and steel pile end bents. The
proposed bridge would be constructed approximately 60 feet upstream to maintain traffic on the existing bridge during construction.

Design data for this project is as follows:

<table>
<thead>
<tr>
<th>Design Year</th>
<th>Average Daily Traffic</th>
<th>Percent Trucks</th>
<th>Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>900</td>
<td>16</td>
<td>40 mph</td>
</tr>
<tr>
<td>2039</td>
<td>1,100</td>
<td>16</td>
<td>40 mph</td>
</tr>
</tbody>
</table>

There are no relocations, public water supplies, mapped floodplains, or environmental justice issues associated with this project. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. Approximately 0.6 acre of Prime Farmland will be converted to highway right of way. Form NRCS-CPA-106 is enclosed.

Noise predictions have been made for this project utilizing the Federal Highway Administration’s Traffic Noise Model 2.5 procedures. A noise assessment is enclosed.

The official species list obtained through the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation website identifies the northern long-eared bat (*Myotis septentrionalis*), Rabbitsfoot (*Theliderma cylindrica*) and harperella (*Ptilimnium nodosum*) as potentially occurring in the proposed project area. A 'no effect' determination was made for the federally listed plant and mussel species. The USFWS species list and clearance are enclosed.

The Final 4(d) Rule and Programmatic Biological Opinion applies to activities that have the potential to affect northern long-eared bats. The Final 4(d) Rule exempts the incidental take of northern long-eared bats from take prohibitions in the Endangered Species Act. The exemptions apply as long as the activities do not occur within 0.25 mile of a known hibernaculum or within 150 feet of a known occupied maternity roost from June 1 to July 31. No known hibernacula or maternity roosts exist within the project limits. A winter clearing restriction will be placed on the job that prohibits the clearing of trees between April 1 and November 15. All offsite locations will require coordination with USFWS. The 4(d) Rule Streamlined Checklist is enclosed.

Approximately 0.1 acre of temporary scrub-shrub wetland impacts and 0.1 acre of temporary stream impacts are anticipated during construction. Approximately 0.1 acre of scrub-shrub wetlands will be permanently impacted for construction of the northern approach of the new bridge, and 0.5 acre of scrub-shrub wetlands will be permanently cleared for long-term maintenance purposes. Permanent stream impacts to Deer Creek resulting from pier construction are estimated at less than 0.1 acre.
Total wetland impacts are estimated at 0.7 acre, while total stream impacts are estimated at 0.2 acre. Wetland impacts will be mitigated at ArDOT’s Upper Saline Mitigation Bank located in Saline County. Construction of the proposed project should be allowed under the terms of a Section 404 Nationwide Permit 23 for Approved Categorical Exclusions, as defined in the Federal Register 82(4):1860-2008.

The proposed bridge to be replaced, ArDOT bridge number 02767, was built in 1954 as part of a project to construct six bridges in preparation for the flood control project featuring Blakely Mountain Dam and the creation of Lake Ouachita as a reservoir. The bridge is eligible for the National Register of Historic Places under Criterion A for its association with the flood control project, and it is eligible for Section 4(f) protection as a historic site. The bridge was marketed by ArDOT, but no responsible entity came forward to assume ownership. A programmatic Section 4(f) evaluation for the bridge is enclosed that includes a Memorandum of Agreement requiring documentation to mitigate demolition of the bridge. No other historic or cultural resources will be impacted as part of the proposed project. The enclosed Arkansas State Historic Preservation Office concurrence is enclosed.

The proposed project will require approximately 2.1 acres of property from the U.S. Army Corps of Engineers (USACE). All material excavated from USACE property will be retained by the USACE on nearby stockpile sites shown on the enclosed figure. The NEPA evaluation for this project included these stockpile areas. Native vegetation will be planted on all Federal property.

If you have any questions, please contact the Environmental Division at 569-2281.

Sincerely,

John Fleming
Division Head
Environmental Division

Enclosures

JF:SS:fc

c: Program Management
    Right of Way
    Roadway Design
    District 8
    Master File
Job 080504
Deer Creek Str. & Apprs.
(Hwy. 27)
Montgomery County
February 14, 2018

Mr. John Fleming
Division Head
Environmental Division
Arkansas State Highway and Transportation Department
PO Box 2261
Little Rock, AR 72203-2261

RE: Montgomery – General
Section 106 Review – FHWA
ARDOT Job Number 080504
Deer Creek Str. & Apprs (S)
AHPP Tracking Number 99884.02

Dear Mr. Fleming:

The staff of the Arkansas Historic Preservation Program (AHPP) has reviewed the above-referenced Phase I cultural resources report.

Based on the information presented in this report, we concur that the proposed undertaking will have no effect on historic properties.

Tribes that have expressed an interest in the area include the Caddo Nation (Mr. Phil Cross), the Osage Nation (Dr. Andrea Hunter), the Quapaw Tribe of Oklahoma (Mr. Everett Bandy), and the Shawnee Tribe of Oklahoma (Ms. Kim Jumper). We recommend that they be consulted in accordance with 36 CFR § 800.2 (c) (2).

Thank you for the opportunity to review this undertaking. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Tim Dodson of my staff at 501-324-9784.

Sincerely,

Scott Kaufman
Director, AHPP

cc: Mr. Randal Looney, Federal Highway Administration
    Dr. Andrea Hunter, Osage Nation
    Dr. Ann Early, Arkansas Archeological Survey

TD:tr
FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency)
Job 080504

1. Name of Project: Deer Creek Str., & Apprs. (Hwy. 27)
2. Type of Project: Bridge Replacement

PART II (To be completed by NRCS)

3. Does the corridor contain prime, unique statewide or local important farmland?
   (If no, the FPPA does not apply - Do not complete additional parts of this form).
   YES ☐ NO ☐

4. Acres Irrigated Average Farm Size

5. Major Crop(s)

6. FARMLAND IN GOVERNMENT JURISDICTION
   Acres: %

7. Amount of Farmland As Defined in FPPA
   Acres: %

8. Name Of Land Evaluation System Used

9. Name Of Local Site Assessment System

PART III (To be completed by Federal Agency)

A. Total Acres To Be Converted Directly
B. Total Acres To Be Converted Indirectly, Or To Receive Services
C. Total Acres In Corridor

PART IV (To be completed by NRCS) Land Evaluation Information

A. Total Acres Prime And Unique Farmland
   .6
B. Total Acres Statewide And Local Important Farmland
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value

PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))

<table>
<thead>
<tr>
<th>Maximum Points</th>
<th>Corridor A</th>
<th>Corridor B</th>
<th>Corridor C</th>
<th>Corridor D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Area in Nonurban Use</td>
<td>15</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Perimeter in Nonurban Use</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Percent Of Corridor Being Farmed</td>
<td>20</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Protection Provided By State And Local Government</td>
<td>20</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Size of Present Farm Unit Compared To Average</td>
<td>10</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Creation Of Nonfarmable Farmland</td>
<td>25</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Availability Of Farm Support Services</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. On-Farm Investments</td>
<td>20</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Effects Of Conversion On Farm Support Services</td>
<td>25</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Compatibility With Existing Agricultural Use</td>
<td>10</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CORRIDOR ASSESSMENT POINTS

160 30

PART VII (To be completed by Federal Agency)

Relative Value Of Farmland (From Part V)
100 100

Total Corridor Assessment (From Part VI above or a local site assessment)
160 30

TOTAL POINTS (Total of above 2 lines)
260 130

1. Corridor Selected: New Location Adjacent to existing
2. Total Acres Of Farmlands to be Converted by Project: .6 acres of Prime Farmland
3. Date Of Selection:
4. Was A Local Site Assessment Used?
   YES ☐ NO ☐

5. Reason For Selection:

Signature of Person Completing this Part: Date 7/9/18

NOTE: Complete a form for each segment with more than one Alternate Corridor
**Fundamentals of Sound and Noise**

“Noise” is defined as an unwanted sound. Sounds are described as noise if they interfere with an activity or disturb the person hearing them. Sound is measured in a logarithmic unit called a decibel (dB). The human ear is more sensitive to middle and high frequency sounds than it is to low frequency sounds, so sound levels are weighted to more closely reflect human perceptions. These “A-weighted” sounds are measured using the decibel unit dB(A). Because the dB(A) is based on a logarithmic scale, a 10 dB(A) increase in sound level is generally perceived as twice as loud while a 3 dB(A) increase is just barely perceptible to the human ear.

Sound levels fluctuate with time depending on the sources of the sound audible at a specific location. In addition, the degree of annoyance associated with certain sounds varies by time of day, depending on other ambient sounds affecting the listener and the activities of the listener. The time-varying fluctuations in sound levels at a fixed location can be quite complex, so they are typically reported using statistical or mathematical descriptors that are a function of sound intensity and time. A commonly used descriptor of the equivalent sound level is Leq, which represents the equivalent of a steady, unvarying level over a defined period of time containing the same level of sound energy as the time varying noise environment. Leq(h) is a sound level averaged over one hour. For highway projects, the Leq(h) is commonly used to describe traffic-generated sound levels at locations of outdoor human use and activity (such as residences).

**Noise Impact Criteria**

Traffic noise impacts take place when the predicted traffic noise levels approach or exceed the noise abatement standard, or when the predicted traffic noise levels exceed the existing noise level by ten dB(A) (decibels on the A-scale). The noise abatement standard of 67 dB(A) is used for sensitive noise receptors such as residences, schools, churches, and parks. The term “approach” is considered to be one dB(A) less than the noise abatement standard.

The number of noise receptors was estimated for this project utilizing the Federal Highway Administration’s Traffic Noise Model 2.5, existing and proposed roadway information, existing traffic information, and projected traffic levels for 2039.

**Traffic noise analyses**

Traffic noise analyses were performed for the project utilizing a roadway cross-for Highway 27 two 11-foot paved travel lanes with 6-foot wide paved shoulders.
**Effects of Project**

The traffic noise estimates resulted in a noise abatement distance of 40 feet from the centerline of the approaches to the proposed bridge. No sensitive receptors located along the proposed project location are predicted to experience noise impacts resulting from noise levels that approach or exceed 67dBA during the design year.

**Traffic Noise Abatement**

Since noise impacts are predicted within 500 feet of the proposed project, the feasibility and reasonableness of potential noise abatement measures must be evaluated. Based upon ARDOT's “Policy on Highway Traffic Noise Abatement”, any noise abatement effort using barrier walls or berms is not warranted for this project. This is due to the relatively low density of development.

To avoid noise levels in excess of design levels, any future receptors should be located a minimum of 10 feet beyond the distance that the noise abatement standard is projected to occur. This distance should be used as a general guide and not a specific rule since the noise will vary depending upon the roadway grades and other noise contributions.

Any excessive project noise, due to construction operations, should be of short duration and have a minimum adverse effect on land uses or activities associated with this project area.

In compliance with Federal guidelines, a copy of this analysis will be transmitted to the West Central Arkansas Planning and Development District for possible use in present and future land use planning.
Mr. John Fleming  
c/o Kayti Ewing  
Arkansas Department of Transportation  
10324 Interstate 30  
Little Rock, Arkansas  72209  

Dear Mr. Fleming,

The Service has reviewed your assessment and determinations for Arkansas Department of Transportation (ArDOT) Job Number 080504 Deer Creek Str. & Apprs., Montgomery County, Arkansas. The project was described and assessed as follows (abbreviated):

The Arkansas Department of Transportation (ArDOT) is proposing to replace the existing bridge over Deer Creek with a new bridge, approximately 70 feet upstream, on Highway 27 in Montgomery County, see attached kmz design file. This project does involve USACE property. Approximately 0.7 acre of scrub-shrub wetlands will be cleared on the west side of Highway 27, north side of Deer Creek, and approximately 1.0 acre of oak-hickory-pine upland forest will be cleared west of Highway 27, south of Deer Creek. The USACE Lake Ouachita will require a timber sale be conducted for any marketable timber.

The official species list obtained through the U.S. Fish and Wildlife Service’s (USFWS) Information for Planning and Consultation (IPaC) website identifies the Northern Long-eared Bat (Myotis septentrionalis), Rabbitsfoot (Theliderma cylindrica) and Harperella (Ptilimmium nodosum) as potentially occurring in the proposed project area. A ‘no effect’ determination was made for the federally listed plant and mussel species due to lack of habitat. Montgomery County is within the consultation area for the federally listed Northern Long-eared Bat (Myotis septentrionalis). The project will have a winter clearing only restriction included in the job contract, which prohibits tree clearing during April 1 to October 1. Approximately 1.7 acres of forested areas will be cleared for the proposed project.

The Final 4(d) Rule and Programmatic Biological Opinion (BO) applies to the project’s activities that have the potential to affect Northern Long-eared Bats. The Final 4(d) Rule exempts the incidental take of Northern Long-eared Bats from take prohibitions in the Endangered Species Act. The exemptions apply as long as the activities do not occur within 0.25 mile of a known hibernacula or
within 150 feet of a known occupied maternity roost from June 1 to July 31. No known hibernacula or maternity roosts exist within the project limits; therefore, the project can proceed without restrictions. All offsite locations will require separate coordination with USFWS. Please see the 4(d) Rule Streamlined Checklist.

Due to the distance to known species locations and the special provision for stream conservation and sediment control measures, the Service agrees with your assessments.

The Service has reviewed your determination that the proposed action will not result in any prohibited incidental take for Northern Long-eared Bat. This project may affect the Northern Long-eared Bat; however, there are no effects beyond those previously disclosed in the Service’s programmatic biological opinion for the final 4(d) rule dated January 5, 2016. Any taking that may occur incidental to this project is not prohibited under the final 4(d) rule (50 CFR §17.40(o)). This project is consistent with the description of the proposed action in the programmatic biological opinion, and the 4(d) rule does not prohibit incidental take of the Northern Long-eared Bat that may occur as a result of this project. Therefore, the programmatic biological opinion satisfies the "action agency" responsibilities under ESA section 7(a)(2) relative to the Northern Long-eared Bat for this project.

Please keep in mind that you must report any departures from the plans submitted; results of any surveys conducted; or any dead, injured, or sick Northern Long-eared Bats that are found to this office. If this project is not completed within one year of this letter, you must update your determination and resubmit the required information.

For further assistance or if you have any questions, please contact Lindsey Lewis at (501) 513-4489 or lindsey_lewis@fws.gov.

Sincerely,

Melvin L. Tobin
Field Supervisor
In Reply Refer To: March 01, 2018
Consultation Code: 04ER1000-2018-SLI-0648
Event Code: 04ER1000-2018-E-00900
Project Name: 080504 Deer Creek Str. & Apprs.

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

To Whom It May Concern:

The enclosed species list identifies endangered, threatened, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). This letter only provides an official species list and technical assistance; if you determine that listed species and/or designated critical habitat may be affected in any way by the proposed project, even if the effect is wholly beneficial, consultation with the Service will be necessary.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found on our website.

Please visit our website at http://www.fws.gov/arkansas-es/IPaC/home.html for species-specific guidance to avoid and minimize adverse effects to federally endangered, threatened, proposed, and candidate species. Our web site also contains additional information on species life history and habitat requirements that may be useful in project planning.
If your project involves in-stream construction activities, oil and natural gas infrastructure, road construction, transmission lines, or communication towers, please review our project specific guidance at [http://www.fws.gov/arkansas-es/IPaC/ProjSpec.html](http://www.fws.gov/arkansas-es/IPaC/ProjSpec.html).

The karst region of Arkansas is a unique region that covers the [northern third of Arkansas](http://www.fws.gov/arkansas-es/IPaC/Karst.html) and we have specific guidance to conserve sensitive cave-obligate and bat species. Please visit [http://www.fws.gov/arkansas-es/IPaC/Karst.html](http://www.fws.gov/arkansas-es/IPaC/Karst.html) to determine if your project occurs in the karst region and to view karst specific-guidance. Proper implementation and maintenance of best management practices specified in these guidance documents is necessary to avoid adverse effects to federally protected species and often avoids the more lengthy formal consultation process.

If your species list includes any mussels, Northern Long-eared Bat, Indiana Bat, Yellowcheek Darter, Red-cockaded Woodpecker, or American Burying Beetle, your project may require a presence/absence and/or habitat survey prior to commencing project activities. Please check the appropriate species-specific guidance on our website to determine if your project requires a survey. We strongly recommend that you contact the appropriate staff species lead biologist (see office directory or species page) prior to conducting presence/absence surveys to ensure the appropriate level of effort and methodology.

Under the ESA, it is the responsibility of the Federal action agency or its 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.

Through the consultation process, we will analyze information contained in a biological assessment 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) is necessary to harm or harass federally listed threatened or endangered fish or wildlife species. In either case, there is no mechanism for authorizing incidental take “after-the-fact.” For more information regarding formal consultation and HCPs, please see the Service’s Consultation Handbook and Habitat Conservation Plans at [www.fws.gov/endangered/esa-library/index.html#consultations](http://www.fws.gov/endangered/esa-library/index.html#consultations).

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. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List
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:

Arkansas Ecological Services Field Office
110 South Amity Suite 300
Conway, AR 72032-8975
(501) 513-4470
Project Summary
Consultation Code: 04ER1000-2018-SLI-0648
Event Code: 04ER1000-2018-E-00900
Project Name: 080504 Deer Creek Str. & Apprs.
Project Type: BRIDGE CONSTRUCTION / MAINTENANCE
Project Description: The Arkansas Department of Transportation proposes to replace the existing bridge over Deer Creek with a new bridge, approximately 70 feet upstream from existing, in Montgomery County.

Project Location:
Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/34.650387830303245N93.53302100216413W

Counties: Montgomery, AR
Endangered Species Act Species

There is a total of 3 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. 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.

Mammals

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Long-eared Bat Myotis septentrionalis</td>
<td>Threatened</td>
</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a></td>
<td></td>
</tr>
</tbody>
</table>

Clams

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbitsfoot Quadrula cylindrica cylindrica</td>
<td>Threatened</td>
</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/5165">https://ecos.fws.gov/ecp/species/5165</a></td>
<td></td>
</tr>
</tbody>
</table>

Flowering Plants

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harperella Ptilimnium nodosum</td>
<td>Endangered</td>
</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/3739">https://ecos.fws.gov/ecp/species/3739</a></td>
<td></td>
</tr>
</tbody>
</table>

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE’S JURISDICTION.
Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form

Federal agencies should use this form for the optional streamlined consultation framework for the northern long-eared bat (NLEB). This framework allows federal agencies to rely upon the U.S. Fish and Wildlife Service’s (USFWS) January 5, 2016, intra-Service Programmatic Biological Opinion (BO) on the final 4(d) rule for the NLEB for section 7(a)(2) compliance by: (1) notifying the USFWS that an action agency will use the streamlined framework; (2) describing the project with sufficient detail to support the required determination; and (3) enabling the USFWS to track effects and determine if reinitiation of consultation is required per 50 CFR 402.16.

This form is not necessary if an agency determines that a proposed action will have no effect to the NLEB or if the USFWS has concurred in writing with an agency's determination that a proposed action may affect, but is not likely to adversely affect the NLEB (i.e., the standard informal consultation process). Actions that may cause prohibited incidental take require separate formal consultation. Providing this information does not address section 7(a)(2) compliance for any other listed species.

Information to Determine 4(d) Rule Compliance:

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does the project occur wholly outside of the WNS Zone?</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>2. Have you contacted the appropriate agency to determine if your project is near known hibernacula or maternity roost trees?</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>3. Could the project disturb hibernating NLEBs in a known hibernaculum?</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>4. Could the project alter the entrance or interior environment of a known hibernaculum?</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>5. Does the project remove any trees within 0.25 miles of a known hibernaculum at any time of year?</td>
<td>☐</td>
<td>☒</td>
</tr>
<tr>
<td>6. Would the project cut or destroy known occupied maternity roost trees, or any other trees within a 150-foot radius from the maternity roost tree from June 1 through July 31.</td>
<td>☐</td>
<td>☒</td>
</tr>
</tbody>
</table>

You are eligible to use this form if you have answered yes to question #1 or yes to question #2 and no to questions 3, 4, 5 and 6. The remainder of the form will be used by the USFWS to track our assumptions in the BO.

Agency and Applicant³ (Name, Email, Phone No.): Kayti Ewing, anne.ewing@ardot.gov, 501-569-2083

Project Name: 080504, Deer Creek Str. & Apprs.

Project Location (include coordinates if known): Montgomery County, 34.651165°, -93.532949°

Basic Project Description (provide narrative below or attach additional information): ArDOT plans to replace the existing Highway 27 bridge over Deer Creek, approximately 70 feet upstream. The existing bridge will be used for maintenance of traffic during construction. See kmz design file for more detailed information. A winter clearing restriction will be placed on the job.

² See http://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html
³ If applicable - only needed for federal actions with applicants (e.g., for a permit, etc.) who are party to the consultation.
<table>
<thead>
<tr>
<th>General Project Information</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does the project occur within 0.25 miles of a known hibernaculum?</td>
<td>☑</td>
<td>☐</td>
</tr>
<tr>
<td>Does the project occur within 150 feet of a known maternity roost tree?</td>
<td>☑</td>
<td>☐</td>
</tr>
<tr>
<td>Does the project include forest conversion(^4)? (if yes, report acreage below)</td>
<td>☑</td>
<td>☐</td>
</tr>
<tr>
<td>Estimated total acres of forest conversion</td>
<td>~ 1.0 acre</td>
<td></td>
</tr>
<tr>
<td>If known, estimated acres(^5) of forest conversion from April 1 to October 31</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>If known, estimated acres of forest conversion from June 1 to July 31(^6)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Does the project include timber harvest? (if yes, report acreage below)</td>
<td>☑</td>
<td>☐</td>
</tr>
<tr>
<td>Estimated total acres of timber harvest</td>
<td>~ 1.0 acre</td>
<td></td>
</tr>
<tr>
<td>If known, estimated acres of timber harvest from April 1 to October 31</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>If known, estimated acres of timber harvest from June 1 to July 31</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Does the project include prescribed fire? (if yes, report acreage below)</td>
<td>☑</td>
<td>☐</td>
</tr>
<tr>
<td>Estimated total acres of prescribed fire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If known, estimated acres of prescribed fire from April 1 to October 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If known, estimated acres of prescribed fire from June 1 to July 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the project install new wind turbines? (if yes, report capacity in MW below)</td>
<td>☑</td>
<td>☐</td>
</tr>
<tr>
<td>Estimated wind capacity (MW)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Agency Determination:**

By signing this form, the action agency determines that this project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule.

If the USFWS does not respond within 30 days from submittal of this form, the action agency may presume that its determination is informed by the best available information and that its project responsibilities under 7(a)(2) with respect to the NLEB are fulfilled through the USFWS January 5, 2016, Programmatic BO. The action agency will update this determination annually for multi-year activities.

The action agency understands that the USFWS presumes that all activities are implemented as described herein. The action agency will promptly report any departures from the described activities to the appropriate USFWS Field Office. The action agency will provide the appropriate USFWS Field Office with the results of any surveys conducted for the NLEB. Involved parties will promptly notify the appropriate USFWS Field Office upon finding a dead, injured, or sick NLEB.

---

\(^4\) Any activity that temporarily or permanently removes suitable forested habitat, including, but not limited to, tree removal from development, energy production and transmission, mining, agriculture, etc. (see page 48 of the BO).
\(^5\) If the project removes less than 10 trees and the acreage is unknown, report the acreage as less than 0.1 acre.
\(^6\) If the activity includes tree clearing in June and July, also include those acreage in April to October.

---

Signature: [Name] ___________________________ Date Submitted: 3/16/2018
DEER CREEK BRIDGE
BRIDGE NUMBER 02767

PROGRAMMATIC SECTION 4(f) EVALUATION FOR FEDERALLY-AIDED HIGHWAY PROJECTS THAT NECESSITATE THE USE OF HISTORIC BRIDGES

ARDOT Job Number 080504
Deer Creek Str. & Apprs.
Montgomery County
June 2018

Programmatic Section 4(f) Evaluation – Historic Bridges

1 Why is this report being prepared?

Section 4(f) of the Department of Transportation Act of 1966 declared a national policy to make a special effort to preserve the natural beauty of the countryside, public parks and recreation lands, wildlife and waterfowl refuges, and historic sites. The current Section 4(f) legislation permits the Secretary of Transportation to approve a project that requires the use of certain historic bridge structures scheduled to be replaced or rehabilitated with Federal funds, only if a determination has been made that there is no feasible and prudent alternative to the use of the property and all possible planning has been undertaken to minimize harm to the property resulting from such use. These determinations, submitted pursuant to 49 U.S.C. Section 303 and 23 U.S.C. Section 138, are set forth in this Programmatic Section 4(f) Evaluation.

2 What would the project accomplish?

The Arkansas Department of Transportation (ARDOT; formerly the Arkansas State Highway and Transportation Department [AHTD]), in conjunction with the Federal Highway Administration (FHWA), is proposing to construct a new bridge across Deer Creek along Highway 27 in Montgomery County, Arkansas. The project will improve safety and the transportation needs in west central Arkansas. As part of the project, a historic bridge will be replaced.

ARDOT Bridge Number 02767 (Deer Creek Bridge) is a steel multi-beam bridge consisting of steel I-beams. ARDOT built the bridge, a common post-war type, in 1953. The total length of the bridge is 202 feet. It has two 11-foot wide travel lanes and a clear deck width of approximately 22 feet. According to the Bridge Inspection Report dated July 27, 2016, the historic bridge is classified as Structurally Deficient, but is still in use. The Bridge Inspection Report lists the condition of the deck as poor (code 4) and the superstructure and substructure as fair (code 5).

The bridge will be replaced with a concrete deck and continuous steel W-beam structure. It will measure approximately 282.2 feet long and 34 feet wide. To meet current standards, the new bridge roadway will have two 11-foot wide paved travel lanes, each with a six foot shoulder.
3 What Section 4(f) properties are being impacted?

ARDOT Bridge Number 02767 (Deer Creek Bridge) contains five 40-foot simple spans of reinforced concrete deck on steel I-beams. The beams rest on prismatic concrete bent caps atop tapered concrete column bents. A tie beam connects the column bents midway down. The railings contain concrete posts and metal guardrails. Reinforced concrete abutments support the bridge ends (Figure 1).

The Deer Creek Bridge was determined eligible for inclusion in the National Register of Historic Places (NRHP) on January 8, 2018. It is eligible under Criterion A for its association with the development of the Blakely Mountain Dam flood control project, which created Lake Ouachita. The bridge spans the crossing of Deer Creek near the community of Washita, which predates the reservoir. It is one of six bridges built for this flood control project. In coordination with the United States Army Corps of Engineers (USACE), ARDOT built the bridge in 1953. The Deer Creek Bridge is not considered a National Historic Landmark.

Deer Creek Bridge

![Figure 1](image)

4 Does this project qualify for the Section 4(f) programmatic for historic bridges?

The FHWA may apply the programmatic Section 4(f) evaluation to projects that meet the criteria shown in Table 1.

<table>
<thead>
<tr>
<th>What are the National Register Criteria for evaluation?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties that possess significance in American history, architecture, archeology, engineering, and culture that retain aspects of integrity, and:</td>
</tr>
<tr>
<td>A) associated with an event, broad patterns, or trends of history;</td>
</tr>
<tr>
<td>B) associated with an important person(s);</td>
</tr>
<tr>
<td>C) embody typical features of a type, period, or construction method, that represent the work of a master, or possess high artistic values; or</td>
</tr>
<tr>
<td>D) that have yielded, or will likely yield, significant information for history or prehistory.</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>What are the qualifications for a National Historic Landmark?</th>
</tr>
</thead>
<tbody>
<tr>
<td>A National Historic Landmark is a property selected by the Secretary of the Interior for its national historic significance. The property should “possess exceptional value in honoring or showing the history of the United States,” according to the National Park Service (<a href="https://www.nps.gov/nhl/learn/intro.htm">https://www.nps.gov/nhl/learn/intro.htm</a>).</td>
</tr>
</tbody>
</table>
What is meant by feasible?
Per 23 CFR 774.17, Feasible and prudent avoidance alternative definitions:
(2) An alternative is not feasible if it cannot be built as a matter of sound engineering judgment.

What is meant by prudent?
Per 23 CFR 774.17, Feasible and prudent avoidance alternative definitions:
(3) An alternative is not prudent if:
(i) It compromises the project to a degree that it is unreasonable to proceed with the project in light of its stated purpose and need;
(ii) It results in unacceptable safety or operational problems;
(iii) After reasonable mitigation, it still causes:
   (A) Severe social, economic, or environmental impacts
   (B) Severe disruption to established communities;
   (C) Severe disproportionate impacts to minority or low income populations; or
   (D) Severe impacts to environmental resources protected under other Federal statutes;
(iv) It results in additional construction, maintenance, or operational costs of an extraordinary magnitude;
(v) It causes other unique problems or unusual factors; or
(vi) It involves multiple factors in paragraphs (3)(i) through (3)(v) of this definition, that while individually minor, cumulatively cause unique problems or impacts of extraordinary magnitude.

### Table 1

<table>
<thead>
<tr>
<th>Criteria</th>
<th>To Use Programmatic Section 4(f) Evaluation For Federally-Aided Highway Projects That Necessitate The Use of Historic Bridges</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The bridge is to be replaced or rehabilitated with Federal funds.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>The project will require the use of a historic bridge structure that is listed in or eligible for inclusion in the NHRP.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>The bridge is not a National Historic Landmark.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>The FHWA Division Administrator determines that the facts of the project match those set forth in the FHWA Section 4(f) Policy Paper issued March 1, 2005.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>Agreement has been reached among the FHWA, SHPO, and the Advisory Council on Historic Preservation (ACHP) through procedures pursuant to Section 106 of the National Historic Preservation Act (NHPA).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5 Could the project avoid demolishing the historic bridge?

In order for a Programmatic Section 4(f) Evaluation That Necessitate the Use of Historic Bridges to be applied to a project, each of the following findings; 1) No Action, 2) Rehabilitation of the Existing Structure, and 3) Build on New Location and Retain the Existing Structure, must be supported by the circumstances, studies, and consultations on the project.

To this effect, ARDOT established a Historic Bridge Analysis Committee to evaluate viable alternatives for the preservation of historically significant bridges through retention, rehabilitation, or to justify their removal, if required. The following alternatives were evaluated to determine if a feasible and prudent alternative to the proposed impacts on the historic bridge existed.

#### No Action

This alternative involves no improvements to the existing facilities and would continue to provide only routine maintenance. The bridge is Structurally Deficient. This alternative does not improve the existing roadway width or conditions of the bridge and would not alleviate the safety issues. It is not prudent to leave the bridge as is, resulting in safety and/or operational issues.

#### Rehabilitation of the Existing Structure

Two rehabilitation alternatives were considered for this project.

*Rehabilitation Alternative One* rehabilitates the existing historic bridge for two-way traffic operations. This alternative is not feasible due to its location in a curve. The bridge is too narrow to meet minimum design standards. Widening the bridge would compromise its
historic integrity. In evaluating the bridge rehabilitation for less than design standards, the railing does not meet current crash test requirements or AASHTO Manual for Assessing Safety Hardware criteria. Rehabilitation Alternative One is not feasible or prudent as it results in unacceptable safety and operational problems and other unique problems.

Rehabilitation Alternative Two rehabilitates the existing historic bridge for one-way traffic operations, and constructs a new bridge for one-way traffic operations in the opposite direction. Due to its location in a curve, rehabilitation of this bridge is not feasible. Splitting and rejoining the roadway for couplet bridges is not a prudent option at this location as it would increase unacceptable safety and operational problems. The historic bridge railing does not meet current crash test requirements or AASHTO Manual for Assessing Safety Hardware criteria. The bridge is also Structurally Deficient and the rehabilitation activities necessary would not be prudent as they would result in additional construction, maintenance, or operational costs of extraordinary magnitude. Right of way acquisition would be enlarged, thereby also increasing the cost of the project. Rehabilitation Alternative Two is not feasible or prudent.

Build on New Location and Retain the Existing Structure
Three new location alternatives were considered for this project.

New Location Alternative One constructs a new bridge in accordance with the approved ARDOT Project Planning Committee (PPC) recommended criteria, with the owner maintaining ownership of the historic bridge, either preserving it in place or at another location. ARDOT owns the bridge. Design of the proposed bridge on a new location is still under consideration; however, it is the policy of ARDOT to no longer retain bridges after they are removed from the highway system. This option is not prudent as it would result in additional maintenance or operational costs of extraordinary magnitude and create liability concerns.

New Location Alternative Two would construct a new bridge to current, minimum design standards in a new location with another entity accepting ownership of the historic bridge, preserving it in place. The bridge is on land belonging to the USACE. USACE determined on February 13, 2018, that it was in their best interest to have the bridge removed due to a number of safety concerns and other issues related to retaining the bridge in its current location. New Location Alternative Two is not prudent as it causes other unique problems or unusual factors.

New Location Alternative Three constructs a new bridge in accordance with the approved PPC recommended criteria with another entity/agency
accepting ownership of the historic bridge, while relocating it. ARDOT marketed the bridge on February 23, 2018 (see Appendix A for marketing correspondence). No responsible party expressed interest in the bridge. New Location Alternative Three, while feasible and prudent, proved unsatisfactory because no entity was found willing to accept title for the bridge in a new location.

6 How will the ARDOT mitigate for the harm being done to the historic property?

The FHWA and the SHPO reached an agreement through the Section 106 process (36 CFR 800) of NHPA (16 U.S.C. 470) on measures to minimize harm. These measures have been incorporated into this project. Through a Memorandum of Agreement (MOA), it was agreed that ARDOT Bridge Number 02767 would be documented to the Arkansas Historic Preservation Program’s (AHPP) architectural documentation standards and then demolished. A copy of the MOA, which includes all agreed upon mitigation stipulations, can be found in Appendix B.

7 What are the findings of the alternatives analysis and this evaluation?

Table 2 contains a summary of the analysis and decision-making information included in this evaluation.

Table 2
Section 4(f) Analysis Summary

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Feasible</th>
<th>Prudent</th>
<th>Uses Section 4(f) Property</th>
<th>Harm to Section 4(f) Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Action</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
<tr>
<td>Rehabilitation One</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Adverse Effect</td>
</tr>
<tr>
<td>Rehabilitation Two</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Adverse Effect</td>
</tr>
<tr>
<td>New Location One</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Adverse Effect</td>
</tr>
<tr>
<td>New Location Two</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
<tr>
<td>New Location Three</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Adverse Effect*</td>
</tr>
</tbody>
</table>

* No entity was found willing to take title for the bridge.

Based on the above considerations, there is no feasible and prudent alternative to the use of the historic bridge. The proposed action includes all possible planning to minimize the harm to the historic bridge resulting from such use.
What are the recommendations on this project?

ARDOT recommends that the Deer Creek Bridge be documented to AHPP architectural documentation standards and demolished as agreed to under the stipulations set forth in the MOA (Appendix B).

The above documentation illustrates that the proposed project complies with all requirements of the Programmatic Section 4(f) Evaluation for Federal-aid highway projects that require the use of a historic bridge.
Appendix A: Marketing Correspondence
February 23, 2018

Dear «Greeting»:

The Arkansas Department of Transportation (ARDOT) is planning to replace Bridge Number 02767 (Deer Creek Bridge) on Highway 27 in Montgomery County. This bridge was determined eligible to the National Register of Historic Places (NRHP) under Job 080504 in the Request for Technical Assistance sent to the Arkansas Historic Preservation Program dated December 21, 2017. A location map and further information about the bridge is enclosed.

The Fixing America’s Surface Transportation (FAST) Act, 23 USC § 144 (g)(5) states: “Any State which proposes to demolish a historic bridge for a replacement project … shall first make the bridge available for donation to a State, locality, or responsible private entity…” As part of the mitigation process, the ARDOT is offering to donate Bridge Number 02767 to any government or entity that demonstrates a willingness to accept title for, relocate it for use at another site, preserve the historic features of, and assume the financial responsibility for the continued maintenance on the structure.

Normally the ARDOT, through the Federal Highway Administration, can reimburse costs associated with preservation up to the demolition estimate.
expense. However, the reimbursement funds allocated to this bridge will be exhausted during the dismantling and relocation process.

If you are interested in acquiring this bridge, please respond with a letter of interest within 45 days from the date of this letter. For further information, contact Nikki Senn at (501) 569-2979.

Sincerely,

Brenda Price
John Fleming
Division Head
Environmental Division

Enclosures

JF:DW:NS:fc

c: Assistant Chief Engineer - Planning
Bridge Division
District 8 Engineer
FHWA
SHPO
ArDOT Bridge Number 02767, on State Highway 27, was determined eligible for inclusion in the National Register of Historic Places (NRHP) under Job 080504 in the Request for Technical Assistance sent to the Arkansas Historic Preservation Program dated December 21, 2017. The bridge consists of five 40-foot I-beam spans, for a total length of 202 feet, and width of 22 feet.

Bridge Number 02767 was constructed over Deer Creek in 1953 as one of six bridges built in coordination with the U.S. Army Corps of Engineers. The bridges were constructed in preparation to fill the reservoir now known as Lake Ouachita. Bridge Number 02767 is eligible for inclusion in the NRHP under Criterion A for its association with the development of the central Arkansas Blakely Mountain Dam flood control project.
Job 080504.
Deer Creek Str. & Apprs.
(Hwy. 27).
Montgomery County.
<table>
<thead>
<tr>
<th>Marketing Groups</th>
<th>Greeting</th>
<th>Name</th>
<th>Title</th>
<th>Agency</th>
<th>Address 1</th>
<th>Address 2</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mayor</td>
<td>Mayor McCabe</td>
<td>The Honorable Pat McCabe</td>
<td>Mayor</td>
<td>City of Hot Springs</td>
<td>133 Convention Blvd.</td>
<td></td>
<td>Hot Springs, AR 71901</td>
</tr>
<tr>
<td>Mayor</td>
<td>Mayor Childress</td>
<td>The Honorable Jo Childress</td>
<td>Mayor</td>
<td>City of Mount Ida</td>
<td>P.O. Box 239</td>
<td></td>
<td>Mount Ida, AR 71957</td>
</tr>
<tr>
<td>Chamber of Commerce</td>
<td>Mr. Troutman</td>
<td>Gary Troutman</td>
<td>President and CEO</td>
<td>Chamber of Commerce</td>
<td>659 Ouachita Avenue</td>
<td></td>
<td>Hot Springs, AR 71901</td>
</tr>
<tr>
<td>Chamber of Commerce</td>
<td>To whom it may concern</td>
<td>Mount Ida Area Chamber of Commerce</td>
<td></td>
<td>124 Highway 270 W.</td>
<td>P.O. Box 6</td>
<td></td>
<td>Mount Ida, AR 71957</td>
</tr>
<tr>
<td>County Judge</td>
<td>Judge Jones</td>
<td>The Honorable Sammy Jones</td>
<td>Judge</td>
<td>Montgomery County Judge</td>
<td>105 Highway 270, E #7</td>
<td></td>
<td>Mount Ida, AR 71957</td>
</tr>
<tr>
<td>County Judge</td>
<td>Judge Thone</td>
<td>The Honorable Mark Thone</td>
<td>Judge</td>
<td>Yell County Judge</td>
<td>P.O. Box 219</td>
<td></td>
<td>Danville, AR 72833</td>
</tr>
<tr>
<td>County Judge</td>
<td>Judge Davis</td>
<td>The Honorable Rick M. Davis</td>
<td>Judge</td>
<td>Garland County Judge</td>
<td>501 Ouachita</td>
<td></td>
<td>Hot Springs, AR 71901</td>
</tr>
<tr>
<td>County Historical Society</td>
<td>To whom it may concern</td>
<td>President</td>
<td>Montgomery County Historical Society</td>
<td>P.O. Box 578</td>
<td></td>
<td></td>
<td>Mount Ida, AR 71957</td>
</tr>
<tr>
<td>County Historical Society</td>
<td>Ms. Robbins</td>
<td>Elizabeth Robbins</td>
<td>Executive Director</td>
<td>Garland County Historical Society</td>
<td>P.O. Box 21335</td>
<td></td>
<td>Hot Springs, AR 71903-1335</td>
</tr>
<tr>
<td>County Historical Society</td>
<td>To whom it may concern</td>
<td>President</td>
<td>Yell County Historical &amp; Genealogical Society</td>
<td>P.O. Box 622</td>
<td></td>
<td></td>
<td>Dardanelle, AR 72834</td>
</tr>
<tr>
<td>Arkansas Historical Association</td>
<td>Mr. Christ</td>
<td>Mark Christ</td>
<td>President</td>
<td>Arkansas Historical Association</td>
<td>Department of History, University of Arkansas</td>
<td>Main 416</td>
<td>Fayetteville, AR 72701</td>
</tr>
<tr>
<td>Preserve Arkansas</td>
<td>Mrs. Patton</td>
<td>Rachel Patton</td>
<td>Executive Director</td>
<td>Preserve Arkansas</td>
<td>P.O. Box 305</td>
<td></td>
<td>Little Rock, AR 72203-0305</td>
</tr>
<tr>
<td>Arkansas Department of Parks and Tourism</td>
<td>Mr. Webb</td>
<td>Kane Webb</td>
<td>Executive Director</td>
<td>Arkansas Department of Parks and Tourism</td>
<td>One Capitol Mall 4A-900</td>
<td></td>
<td>Little Rock, AR 72201</td>
</tr>
<tr>
<td>Arkansas Game and Fish Commission</td>
<td>Mr. Crow</td>
<td>Jeff Crow</td>
<td>Director</td>
<td>Arkansas Game and Fish Commission</td>
<td>2 Natural Resources Drive</td>
<td></td>
<td>Little Rock, AR 72205</td>
</tr>
<tr>
<td>US Corps of Engineers</td>
<td>Colonel Dixon</td>
<td>Colonel Robert G. Dixon</td>
<td>Commander and District Engineer</td>
<td>U.S. Army Corps of Engineers</td>
<td>Little Rock District, P.O. Box 867</td>
<td></td>
<td>Little Rock, AR 72203-0867</td>
</tr>
<tr>
<td>US Corps of Engineers</td>
<td>Colonel Derosier</td>
<td>Colonel Michael C. Derosier</td>
<td>Commander and District Engineer</td>
<td>U.S. Army Corps of Engineers</td>
<td>Vicksburg District, 4155 Clay Street</td>
<td></td>
<td>Vicksburg, MS 39183-3435</td>
</tr>
<tr>
<td>Metro Planning Org, if applicable</td>
<td>Mr. Pratt</td>
<td>Dewayne Pratt</td>
<td>Executive Director</td>
<td>West Central Arkansas Planning and Development District, Inc.</td>
<td>1000 Central Avenue</td>
<td></td>
<td>Hot Springs, AR 71901</td>
</tr>
<tr>
<td>Central Arkansas Water</td>
<td>Ms. Lawson</td>
<td>Raven Lawson</td>
<td>Watershed Protection Manager</td>
<td>Central Arkansas Water</td>
<td>221 East Capitol Avenue, P.O. Box 1789</td>
<td>P.O. Box 1789</td>
<td>Little Rock, AR 72203</td>
</tr>
<tr>
<td>United States Forest Service</td>
<td>To whom it may concern</td>
<td>Forest Supervisor’s Office</td>
<td>United States Forest Service</td>
<td>Ouachita National Forests</td>
<td>1523 Highway 270 E</td>
<td></td>
<td>Mount Ida, AR 71957</td>
</tr>
<tr>
<td>Arkansas Trails Council</td>
<td>Mr. Sprague</td>
<td>Mike Sprague</td>
<td>Executive Secretary</td>
<td>Arkansas Trails Council, Dept. of Parks and Tourism</td>
<td>One Capitol Mall</td>
<td></td>
<td>Little Rock, AR 72201</td>
</tr>
<tr>
<td>City of Fayetteville</td>
<td>Mr. Eastin</td>
<td>Ken Eastin</td>
<td>Park Planner II</td>
<td>City of Fayetteville, Parks and Recreation Department</td>
<td>113 West Mountain Street</td>
<td></td>
<td>Fayetteville, AR 72701</td>
</tr>
<tr>
<td>City of Bentonville</td>
<td>Mr. Wright</td>
<td>David Wright</td>
<td>Director</td>
<td>City of Bentonville, Parks and Recreation Department</td>
<td>215 SW A Street</td>
<td></td>
<td>Bentonville, AR 72712</td>
</tr>
<tr>
<td>City of Springdale</td>
<td>Mr. Mock</td>
<td>Bill Mock</td>
<td>Director</td>
<td>City of Springdale, Parks and Recreation Department</td>
<td>600 Ash Street</td>
<td></td>
<td>Springdale, AR 72765</td>
</tr>
<tr>
<td>City of Paragould</td>
<td>Ms. Austin</td>
<td>Pat Austin</td>
<td>Director</td>
<td>City of Paragould, Parks and Recreation Department</td>
<td>3404 Linwood Drive</td>
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<td>Paragould, AR 72450</td>
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Programmatic Section 4(f) Evaluation  A-5
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<tr>
<td>City of Marion</td>
<td>Mr. Rawls</td>
<td>Andy Rawls</td>
<td></td>
<td>City of Marion, Parks and Recreation Department</td>
<td>14 East Military Road</td>
<td></td>
<td>Marion, AR 72364</td>
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<tr>
<td>City of West Memphis</td>
<td>Mr. Parker</td>
<td>Lorenzo Parker</td>
<td>Director</td>
<td>City of West Memphis, Parks and Recreation Department</td>
<td>P.O. Box 1728</td>
<td></td>
<td>West Memphis, AR 72303</td>
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<tr>
<td>City of Jonesboro</td>
<td>Mr. Huffstetler</td>
<td>Wixson Huffstetler</td>
<td>Director</td>
<td>City of Jonesboro, Parks and Recreation Department</td>
<td>3009 Dan Avenue</td>
<td></td>
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<td>City of Hot Springs</td>
<td>Ms. Wallace</td>
<td>Jean Wallace</td>
<td>Director</td>
<td>City of Hot Springs, Parks and Recreation Department</td>
<td>111 Opera</td>
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Appendix B: Memorandum of Agreement
MEMORANDUM OF AGREEMENT
AMONG THE
FEDERAL HIGHWAY ADMINISTRATION,
THE ARKANSAS DEPARTMENT OF TRANSPORTATION AND THE
ARKANSAS STATE HISTORIC PRESERVATION OFFICER
REGARDING
ARKANSAS DEPARTMENT OF TRANSPORTATION
JOB NUMBER 080504
DEER CREEK STR. & APPRS. (S)
HIGHWAY 27, MONTGOMERY COUNTY, ARKANSAS
ArDOT BRIDGE NUMBER 02767

WHEREAS, the Federal Highway Administration (FHWA) and the Arkansas Department of Transportation (ArDOT) wish to construct a new bridge across Deer Creek along Highway 27 in Montgomery County; and the old Deer Creek Bridge will be demolished as part of completing ArDOT Job Number 080504; and

WHEREAS, the old Deer Creek Bridge is an historic property that is eligible for inclusion in the National Register of Historic Places (NRHP); and

WHEREAS, the FHWA has marketed the old Deer Creek Bridge to federal agencies, the Montgomery, Yell, and Garland County Judges, the Cities of Mount Ida and Hot Springs, and state and local historic societies; and

WHEREAS, during the recent marketing, no entities were found willing to accept title for preservation of the old Deer Creek Bridge for reuse at another location; and

WHEREAS, through the Programmatic Section 4(f) Evaluation process the FHWA has determined that no feasible and prudent alternative to the demolition of the historic bridge exists; and

WHEREAS, the FHWA has determined that this undertaking will have an adverse effect on a property eligible to the NRHP and in accordance with the 36 Code of Federal Regulation (CFR) Part 800, regulations implementing Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended (54 U.S.C. 306108), must address this effect; and

WHEREAS, the definitions set forth in 36 CFR Part 800 are applicable throughout this Memorandum of Agreement (MOA); and
Programmatic Section 4(f) Evaluation

WHEREAS, the FHWA has consulted with the Quapaw Tribe of Oklahoma, the United Keetoowah Band of Cherokee Indians in Oklahoma, the Caddo Nation, the Osage Nation, for which the old Deer Creek Bridge or sites and properties in the immediate area might have religious and cultural significance; and

WHEREAS, in accordance with 36 CFR § 800.6(a)(1), the FHWA through ARDOT has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination with specified documentation, and the ACHP has chosen not to participate in the consultation pursuant to 36 CFR § 800.6(a)(1)(iii); and

NOW THEREFORE, the FHWA, the ARDOT and the State Historic Preservation Officer (SHPO) agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the adverse effect of this undertaking on the old Deer Creek Bridge.

STIPULATIONS

The FHWA, through the ARDOT, shall ensure that the following stipulations are carried out.

I. MITIGATION OF ADVERSE EFFECT TO THE HISTORIC PROPERTY

A. The ARDOT will produce architectural documentation for the old Deer Creek Bridge that meets the Secretary of the Interior’s Standards and Guidelines for Archeology and Historic Preservation set forth in 48 FR 44716 and the Arkansas Historic Preservation Program’s (AHPP) 2016 Survey Procedures Manual: Guidelines for Historic and Architectural Surveys in Arkansas. Documentation for the bridge will include the AHPP Arkansas Architectural Resources Form and color digital photographs.

B. The documentation will be provided for curation to the AHPP, the Arkansas State Library, the Arkansas Studies Institute, the Arkansas State Archives, and the Torreyson Library at the University of Central Arkansas.

C. The bridge will be laser scanned and a three-dimensional digital model of the bridge will be created and housed in the Historic Bridge Program Section of the ARDOT website.

Highway 27
Bridge No. 02767
D. As the fieldwork portions of the required mitigation have been completed, construction can be undertaken immediately.

E. The FHWA shall ensure that adequate time and funding are provided in order to carry out all aspects of the required mitigation.

II. HUMAN REMAINS

Human remains are not expected to be discovered on this undertaking; however, if they are encountered during implementation of the project, all activity in the vicinity of the discovery shall cease. The treatment of human remains shall follow the guidelines developed for the Arkansas Burial Law (Act 753 of 1991, as amended) and the Advisory Council on Historic Preservation’s Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Objects published February 23, 2007. As such a permit will be obtained from the AHPP prior to exaction of any remains.

III. DURATION

This MOA will expire if its terms are not carried out within ten (10) years from the date of its execution. Prior to such time, the FHWA may consult with the other signatories to reconsider the terms of the MOA and amend it in accordance with Stipulation VIII below.

IV. PROFESSIONAL QUALIFICATIONS STANDARDS

The FHWA shall ensure that all archeological investigations and other historic preservation activities to this MOA are carried out by, or under the direct supervision of, a person or persons meeting the appropriate qualifications set forth in the Secretary of the Interior’s professional qualification standards (36 CFR Part 61).

V. POST-REVIEW DISCOVERY SITUATIONS

Pursuant to 36 CFR Part 800.13, if cultural material is discovered during implementation of the project, the FHWA shall ensure that all construction activities cease in the area of the discovery and the consulting parties are notified. The FHWA, in consultation with SHPO, shall determine if the discovery is eligible for inclusion in the NRHP. If so, the FHWA and the ArDOT will develop a treatment plan for historic properties which shall be reviewed by SHPO. Disputes arising from such review shall be resolved in accordance with Stipulation VI.
VI. DISPUTE RESOLUTION

Should the SHPO or any consulting party object within thirty (30) calendar days to any findings, proposed actions or determinations made pursuant to this MOA, the FHWA shall consult with the objecting party to resolve the objection. If the FHWA determines that the objection cannot be resolved, it shall request further comments from the Advisory Council on Historic Preservation (Council) pursuant to 36 CFR Part 800.7. Any Council comment provided in response to such a request shall be taken into account by the FHWA in accordance with 36 CFR 800.7 with reference only to the subject of the dispute; the FHWA responsibility to carry out all actions under this MOA that are not subject to dispute shall remain unchanged.

VII. MONITORING

The consulting parties or one or more parties in cooperation may monitor the undertaking and stipulations carried out pursuant to this MOA.

VIII. AMENDING THE MEMORANDUM OF AGREEMENT

Should any of the signatories to this MOA believe that the terms of this MOA are not being met or cannot be met, that party shall immediately notify the other signatories and request consultation to amend this MOA in accordance with 36 CFR Part 800. The process to amend this MOA shall be conducted in a manner similar to that leading to the execution of this MOA.

IX. TERMINATING THE MEMORANDUM OF AGREEMENT

Any signatory to this MOA may terminate it by providing a thirty (30) calendar day notice to the other parties provided that the parties shall consult during the period prior to termination to seek agreement on amendments or other actions that would avoid termination of this MOA. In the event of termination, the FHWA shall comply with 36 CFR Part 800.4 through 800.6 with regard to the undertaking covered by this MOA.

X. FAILURE TO CARRY OUT THE MEMORANDUM OF AGREEMENT

In the event that the FHWA does not carry out the terms of this MOA, the FHWA shall comply with 36 CFR Part 800.4 through 800.6 with regard to the undertaking covered by this MOA.
ARDOT Job Number 080504
Memorandum of Agreement
Page 5 of 7

Signatory

FEDERAL HIGHWAY ADMINISTRATION

Pete Jilek
Acting Arkansas Division Administrator

5/22/2018
Date

Highway 27
Bridge No. 02767
ARDOT Job Number 080504
Memorandum of Agreement
Page 6 of 7

Signatory

ARKANSAS STATE HISTORIC PRESERVATION OFFICER

[Signature]

Stacy Hurst
Arkansas State Historic Preservation Officer

4-13-18

Date
ARKANSAS DEPARTMENT OF TRANSPORTATION

Scott E. Bennett, P.E.
Director

Date

5-8-2018

Highway 27
Bridge No. 02767
## ARDOT ENVIRONMENTAL IMPACTS ASSESSMENT FORM

### ArDOT Job Number
080504

### FAP Number
NHPP-0049(16)

### Job Title
Deer Creek Str. & Apprs. (S)

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Section 401 Water Quality Certification Required?  Yes

Short-term Activity Authorization Required?  Yes

Section 404 Permit Required?  Yes

Type  Nationwide 23

Remarks: The project is within one mile of Lake Ouachita, an Extraordinary Resource Waterway, and, as such, will require Section 401 Water Quality Certification.

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Signature of Evaluator  [Signature]

Date  June 15, 2018

5/17/2011
ROADWAY DESIGN REQUEST

Job Number 080504  FAP No.  County Montgomery
Job Name Deer Creek Str. & Apprs. (S)
Design Engineer Primary Environmental Staff
Brief Project Description Replace bridge on new location

A. Existing Conditions:
   Roadway Width: 22’ Shoulder Type/Width: 3’
   Number of Lanes and Width: 2@11’ Existing Right-of-Way: 100’
   Sidewalks? N/A Location: Width: 
   Bike Lanes? N/A Location: Width: 

B. Proposed Conditions:
   Roadway Width: 22’ Shoulder Type/Width: 6’
   Number of Lanes and Width: 2@11’ Proposed Right-of-Way: 67’
   Sidewalks? N/A Location: Width: 
   Bike Lanes? N/A Location: Width: 

C. Construction Information:
   If detour: Where: Length: 

D. Design Traffic Data:
   2019 ADT: 900  2039 ADT: 1100  % Trucks: 16
   Design Speed: 40 m.p.h.

E. Approximate total length of project: 0.322 mile(s)

F. Justification for proposed improvements: Replace functionally obsolete bridge

G. Total Relocatees: 0 Residences: Businesses:

H. Have you coordinated with any outside agencies (e.g., FHWA, City, County, etc.)? N/A

<table>
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<tr>
<th>Agency/Official</th>
<th>Person Contacted</th>
<th>Date</th>
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BRIDGE INFORMATION - PRELIMINARY

Job Number: 080504  FAP Number: NHPP-0049(16)  County: Montgomery
Job Name: Deer Creek Str. & Apprs. (S)
Design Engineer: Kyle Yeary  Environmental Staff: Susan Staffeld/Kayti Ewing

A. Description of Existing Bridge:
1. Bridge Number: 02767 over Deer Creek
2. Location: Rte.: 27  Section: 07  Log Mile: 9.96
4. Type Construction: Five 40' simple spans consisting of reinforced concrete decks on steel I-beams supported by reinforced concrete multi-column abutments and intermediate bents on spread footings.
5. Deficiencies: Inadequate load capacity.
7. Are any Condition Component Ratings at 3 or less? No.

B. Proposed Improvements:
1. Length: 282.2 ft  Br. Rdwy. Width: 34.0 ft  Deck Width (Out-to-Out): 37.2 ft
2. Travel Lanes: Two 11' travel lanes.
3. Shoulder Width: 6' shoulders both sides of roadway.
4. Sidewalks? No  Location: N/A  Width: N/A ft

C. Construction Information:
1. Location in relation to existing bridge: Approximately 60' upstream.
2. Superstructure Type: Continuous composite w-beam unit.
3. Span Lengths: 70'-70'-70' -70'
4. Substructure Type: Single column intermediate bents on drilled shafts, steel pile end bents.
5. Ordinary High Water Elev. (OHW): 578  No. of Bents inside OHW Contours: 3
7. Is Channel Excavation below OHW Required? No  Surface Area: N/A ft²  Volume: N/A yd³
8. Is Fill below OHW Req’d.? Yes  Surface Area: TBD ft²  Volume: TBD yd³

D. Work Road Information:
1. Is Work Road(s) required? Yes  Location: TBD  Top Width: 20.0 ft
2. Is Fill below OHW required? Yes  Surface Area: TBD ft²  Volume: TBD yd³
3. Are Pipes required to meet Backwater Criteria? TBD  Waterway Opening: TBD ft²

E. Detour Information:
1. Is a detour bridge required? No  Location in relation to Existing Br.: N/A
2. Length: N/A ft  Br. Rdwy. Width: N/A ft  Deck Elevation: N/A
3. Volume of Fill below OHW: N/A yd³  Surface Area: N/A ft²

F. Coordination with Outside Agencies (e.g., FHWA, City, County, C of E, USCG):
Has Bridge Division coordinated with any outside agencies? No.