



INTEROFFICE MEMORANDUM

December 18, 2019

TO: Master Files

FROM: *for* John Fleming, Division Head, Environmental Division *JF*

SUBJECT: Job Number 101004
FAP Number NHPP-0011(55)
Big Slough Ditch Branch Str. & Apprs. (S)
Route 1, Section 22
Bridge Number M0072
Clay County
Tier 1 Categorical Exclusion

The purpose of this project is to replace a bridge on Highway 1 over Big Slough Ditch Branch in Clay County. Total length of the project is approximately 0.10 mile. The attached figure illustrates the project location.

The existing roadway consists of two 10' wide paved travel lanes with 4' wide unpaved shoulders. The existing bridge (M0072) is a 25' x 45' structure and is in poor condition.

Proposed improvements include construction of a reinforced concrete box culvert with two 11' wide paved travel lanes with 4' wide shoulders (2' paved). The project could acquire up to 3.9 acres of additional right of way.

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2020	620	3	55 mph
2040	700	3	55 mph

There are no relocations, environmental justice issues, or wetlands associated with this project. No impacts to cultural resources are anticipated; concurrence from the State Historic Preservation Officer is attached. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. Up to 3.9 acres of Prime Farmland may be converted to highway right of way. Form NRCS-CPA-106 is attached.

This project has been determined to generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special mobile source air toxic concerns.

Based on the ARDOT's noise policy, a noise analysis is not required for this project. The project does not involve added capacity, construction of new through lanes or auxiliary lanes, substantial changes in the horizontal or vertical alignment of the roadway, or exposure of noise sensitive land uses to a new or existing highway noise source.

The existing bridge over Big Slough Ditch Branch, an intermittent stream, will be replaced with a reinforced concrete box culvert on existing location. A temporary detour will be utilized on the north side of the existing bridge for maintenance of traffic purposes. Construction of the new structure and the temporary detour will impact less than 0.1 acre of waters of the United States. Construction should be allowed under the terms of a Section 404 Nationwide Permit 14 for Linear Transportation Crossings as defined in Federal Register 82 (4):1860-2008. A preconstruction notification is not required.

The official species list obtained from the US Fish and Wildlife Service's Information for Planning and Consultation website identified four endangered and one threatened species as potentially occurring within the project boundaries: Indiana bat (*Myotis sodalis*), Fat Pocketbook (*Potamilus capax*), Rabbitsfoot (*Theliderma cylindrica*), Scaleshell (*Leptodea leptoden*) and pondberry (*Lindera melissifolia*). Due to lack of habitat and distance to known locations for the species, it has been determined that the proposed project will have "no effect" on the aforementioned federally listed species.

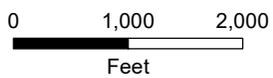
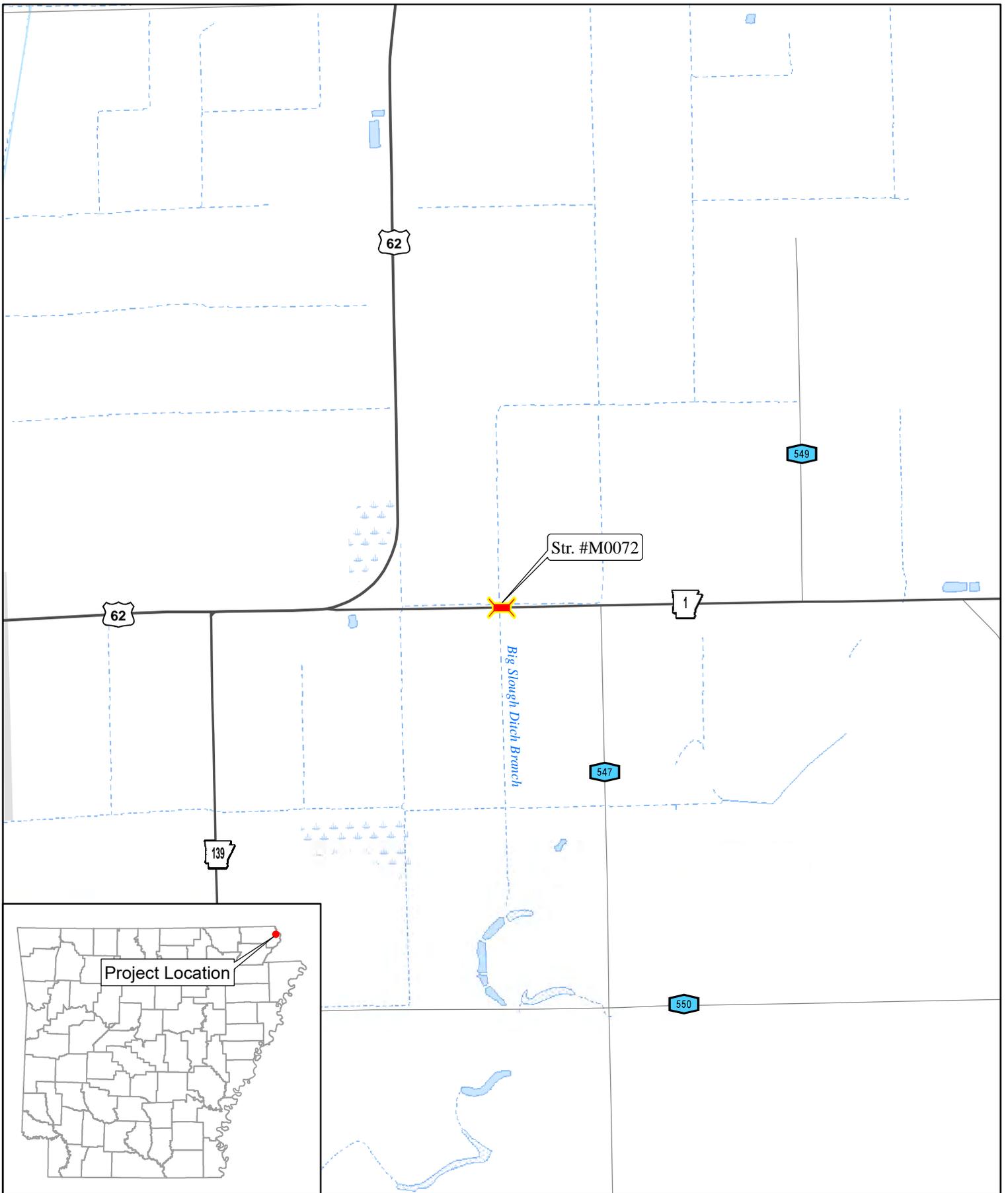
After appropriate environmental review, it has been determined that the subject job is a Tier 1 Categorical Exclusion as described by the ARDOT/FHWA Programmatic Agreement on Categorical Exclusion Documentation and Processing. A public hearing will not be offered for this project.

JF:TT:am

Attachments:

- Location Map
- SHPO Clearance
- Form NRCS-CPA-106
- Environmental Study Checklist
- Design Criteria

c: Program Management
Right of Way
Roadway Design
Bridge Division
District 10
FHWA



ARDOT - Environmental GIS - Dudley
October 24, 2019

Job 101004
Big Slough Ditch Branch
Str. & Apprs. (Hwy. 1)
Clay County





ARKANSAS HERITAGE



December 13, 2019

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

RE: Clay County – General
Section 106 Review – FHWA
Big Slough Ditch Branch Str. & Apprs. (S)
Route 1 Section 22
ARDOT Job Number: 101004
AHPP Tracking Number: 104853.01

Dear Mr. Fleming:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the Project Identification Form for the above-referenced job in Section 7, Township 20 North, Range 9 East in Clay County. The undertaking entails replacement of Bridge Number M0072. Bridge Number M0072 dates from 1956 and is determined not eligible for the National Register (AHPP Tracking Number 104853).

Based on the provided information and the results of the field investigation, the AHPP concurs with the finding of **no historic properties affected pursuant to 36 CFR § 800.4(d)(1)**. In the event of a post-review discovery of historic properties within the area of potential effects, please contact the AHPP and other consulting parties in accordance with 36 CFR § 800.13(b)(3).

Tribes that have expressed an interest in the area include the Cherokee Nation (Ms. Elizabeth Toombs), the Delaware Nation (Ms. Nekole Alligood), the Osage Nation (Dr. Andrea Hunter), the Quapaw Nation (Mr. Everett Bandy), and the Shawnee Tribe (Ms. Tonya Tipton). We recommend consultation in accordance with 36 CFR § 800.2(c)(2).

Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Eric Mills of my staff at 501-324-9784 or email eric.mills@arkansas.gov.

Sincerely,

Scott Kaufman
Director, AHPP

cc: Mr. Randall Looney, Federal Highway Administration
Dr. Ann Early, Arkansas Archeological Survey

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency) Job 101004	3. Date of Land Evaluation Request 10/28/19	4. Sheet 1 of
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1. Name of Project Big Slough Ditch Branch Str. & Apprs. (S)	5. Federal Agency Involved FHWA
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2. Type of Project Bridge Replacement	6. County and State Clay AR.
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PART II (To be completed by NRCS)	1. Date Request Received by NRCS	2. Person Completing Form
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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
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	7. Amount of Farmland As Defined in FPPA Acres: %
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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PART III (To be completed by Federal Agency)	Alternative Corridor For Segment			
	Corridor A	Corridor B	Corridor C	Corridor D

A. Total Acres To Be Converted Directly				
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B. Total Acres To Be Converted Indirectly, Or To Receive Services				
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C. Total Acres In Corridor				
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PART IV (To be completed by NRCS) Land Evaluation Information				
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A. Total Acres Prime And Unique Farmland	3.9			
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B. Total Acres Statewide And Local Important Farmland				
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C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
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D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
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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)				
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PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points					
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1. Area in Nonurban Use	15	15				
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2. Perimeter in Nonurban Use	10	10				
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3. Percent Of Corridor Being Farmed	20	20				
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4. Protection Provided By State And Local Government	20	0				
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5. Size of Present Farm Unit Compared To Average	10	0				
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6. Creation Of Nonfarmable Farmland	25	0				
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7. Availability Of Farm Support Services	5	5				
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8. On-Farm Investments	20	0				
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9. Effects Of Conversion On Farm Support Services	25	0				
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10. Compatibility With Existing Agricultural Use	10	0				
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TOTAL CORRIDOR ASSESSMENT POINTS	160	50				
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PART VII (To be completed by Federal Agency)				
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Relative Value Of Farmland (From Part V)	100	100				
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Total Corridor Assessment (From Part VI above or a local site assessment)	160	50				
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TOTAL POINTS (Total of above 2 lines)	260	150				
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1. Corridor Selected: New <input type="checkbox"/> existing <input checked="" type="checkbox"/>	2. Total Acres of Farmlands to be Converted by Project: 3.9 acres of Prime Farmland	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part:	DATE
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John Baber

10/28/19

NOTE: Complete a form for each segment with more than one Alternate Corridor

**ARDOT ENVIRONMENTAL VERIFICATION CHECKLIST
FOR CONSIDERATION OF POTENTIAL IMPACTS**

ARDOT Job Number 101004 FAP Number NHPP-0011(55)

Job Title Big Slough Ditch Branch Str. & Apprs. (S)

Environmental Resource	None	Minimal	Major	Comments-required for each item
Air Quality	X			No impacts
Cultural Resources	X			No impacts anticipated
Economic	X			No impacts
Endangered Species	X			"No effect" determination
Environmental Justice/Title VI	X			No protected populations
Fish and Wildlife		X		Temporary impacts during construction.
Floodplains	X			Non in project area
Forest Service Property	X			None in the project area
Hazardous Materials/Landfills	X			None in project area
Land Use	X			No impacts
Migratory Birds		X		Migratory Bird SP
Navigation/Coast Guard	X			None in the project area
Noise Levels	X			No increase due to project
Prime Farmland	X			3.9 acres
Protected Waters	X			None in the project area
Public Recreation Lands	X			None in project area
Public Water Supply/WHPA	X			None in the project area
Relocatees	X			No relocations
Section 4(f)/6(f)	X			No 4f/6f resources
Social	X			No impacts to social environment
Underground Storage Tanks	X			No UST's in project area
Visual	X			No change in visual environment
Streams		X		Nationwide 14 Permit required
Water Quality		X		Temporary during construction
Wetlands	X			None in the project area
Wildlife Refuges	X			None in the project area

Section 401 Water Quality Certification Required? No
 Short-term Activity Authorization Required? Yes
 Section 404 Permit Required? Yes Type Nationwide 14

Remarks:

Signature of Evaluator John Baber Date 10/28/19

PROJECT DESIGN CRITERIA

DATE: October 10, 2019
REV.: _____

JOB NO: 101004 ROUTE / SECTION: 1 / 22 LENGTH: 0.10 mile COUNTY: Clay
 JOB NAME: Big Slough Ditch Branch Str. & Apprs. (S) MIN ORDER: 2018-080
 2020 ADT: 620 2040 ADT: 700 TRUCK: 3% 4-LANE GRID SYSTEM: No
 APHN: No INCENTIVE/DISINCENTIVE: No FUNCTIONAL CLASSIFICATION: Major Collector

EXISTING CONDITIONS

ROADWAY WIDTH: 28' WIDTH OF TRAVELED WAY: 20' SHOULDERS (WIDTH/TYPE): 4' Unpaved
 BIKE/PED ACCOMMODATIONS: No CRASH RATE: 0.91 STATEWIDE CRASH RATE: 1.07

BRIDGE INFORMATION

Bridge No.	Log Mile	Length x Width	Structure Type	BCI	Deck/Culvert Rating	Superstructure Rating	Substructure Rating	Posted
M0072	0.45	45.0' x 25.1'	Concrete Channel Beam	33.10	5	4	4	0

* Refer to PDC Bridge Information Codes

RECOMMENDED CRITERIA

NO. OF LANES: 2 WIDTH: 11' SHOULDERS (WIDTH/TYPE): 4' (2' Paved)
 DIVIDED: No MEDIAN WIDTH: N/A PARKING: No
 BRIDGE WIDTHS: N/A DESIGN SPEED - RURAL: 55 mph URBAN: N/A
 DEGREE OF ACCESS CONTROL: N/A CLEAR ZONE: 14' @ 6:1 / 18' @ 4:1
 LOCATION OF INTERCHANGES: N/A CHANNELIZED INTERSECTION: N/A
 TRAFFIC SIGNALS: N/A RR X-ING PROTECTION: N/A
 BIKE/PED ACCOMMODATIONS: N/A
 PREVIOUS PLANNING STUDY: No
 STUDY FINDING: N/A

RECOMMENDED TYPE FUNDS: NHPP
 PRELIM COST ESTIMATE: ROADWAY: \$650,000 BRIDGE: \$0 TOTAL: \$650,000

REMARKS:

Bridge Replacement with RC Box
 Use AASHTO Green Book (2018)

RECOMMENDED BY:

Charles Ellis: Charles R. Ellis
 Date: 10/17/19

Trinity Smith: Trinity Smith
 Date: 10/10/19

APPROVED BY:

Mike Fugett: [Signature] ACE-Design Date: 10-18-19

(ATTACH NEW PROJECT MEMO, LOCATION MAP, AND CRASH ANALYSIS)