

TIER 3 CATEGORICAL EXCLUSION

ARDOT JOB NUMBER 110709

FAP NUMBER NHPP-0018(60)

DITCH NO. 9 & CHATMAN BRANCH STRS. & APPRS. (S)

ROUTE 50, SECTION 4

ROUTE 118, SECTION 3

CRITTENDEN COUNTY

Submitted Pursuant to 42 U.S.C. 4332(2)

By the

U.S. Department of Transportation

Federal Highway Administration

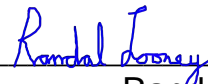
And the

Arkansas Department of Transportation

December 2020

Decemeber 3, 2020

Date of Approval



Randal Looney
Environmental Coordinator
Federal Highway Administration

The Environmental Division reviewed the referenced project and has determined it falls within the definition of the Tier 3 Categorical Exclusion as defined by the ARDOT/FHWA Programmatic 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 one bridge (M3876) on Highway 50 over Ditch Number 9 and one bridge (M1829) on Highway 118 over Chatman Branch. The existing bridge M1829 is 47' x 23.3' and the existing bridge M3876 is 50' x 27.5'. Total length of the project is less than 0.1 mile and is located in Crittenden County. A project location map is attached.

The existing roadway consists of two 10-foot wide paved travel lanes with 2-foot wide unpaved shoulders.

Proposed improvements include two 11-foot wide paved travel lanes with 4-foot (2-foot paved) wide shoulders. Both bridges will be replaced by R.C. Box Culverts. Up to 9.54 acres of additional right of way may be required for this project.

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2021	250	8	55 mph
2041	300	8	55 mph

There are no relocations, environmental justice issues, wellhead protection areas/public water supplies, or cultural resources associated with this project. State Historic Preservation Officer clearance is attached. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. Up to 9.54 acres of Prime Farmland may be impacted. Form NRCS-CPA-106 is attached.

Based on the ARDOT noise policy, a noise analysis is not required for this project. The bridge replacements will not involve adding capacity, substantially changing the roadway alignment, or exposing noise sensitive land uses to traffic noise sources. In compliance with federal guidelines, local authorities will not require notification.

The official species list obtained from the US Fish and Wildlife Service's Information for Planning and Consultation website identified the Eastern Black Rail (*Laterallus jamaicensis*), Piping Plover (*Charadrius melodus*), Red Knot (*Calidris*

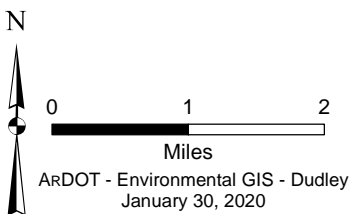
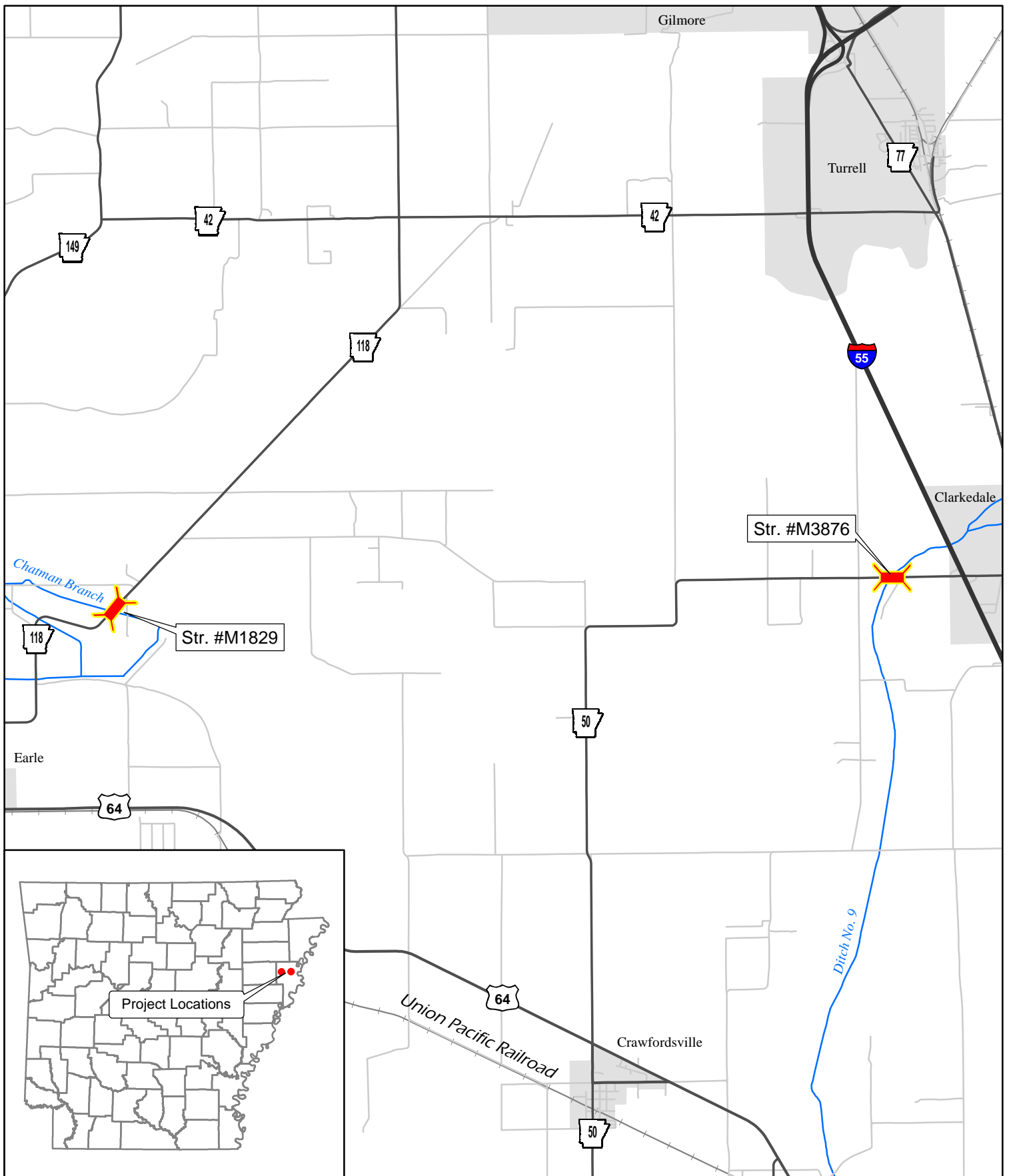
canutus rufa) and pondberry (*Lindera melissifolia*) as threatened or endangered species potentially occurring within the project area. Due to the lack of habitat and distance to known species occurrences, it has been determined that the proposed project will have “no effect” on the aforementioned federally listed species. The official species is attached.

The project will have a discharge of dredged or fill material into waters of the United States associated with the bridge replacements; therefore, a Section 404 permit will be required. Total impacts to waters of the United States, for the construction of this project, are estimated at 0.1 acre. 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 pre-construction notification is not required.

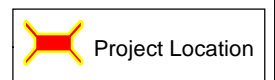
Crittenden County participates in the National Flood Insurance Program. The project lies within Zone A, Special Flood Hazard Area and Zone X, 0.2% Annual Chance Flood Hazard Area. The final project design will be reviewed to confirm that the design is adequate and that the potential risk to life and property are minimized. Adjacent properties should not be impacted nor have a greater flood risk than existed before construction of the project. None of the encroachments will constitute a substantial floodplain encroachment or a risk to property or life.

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 (MSAT) concerns. As such, this project will not result in changes in traffic volumes, vehicle mix, basic project location, or any other factor that would cause a meaningful increase in MSAT impacts of the project from that of the no-build alternative.

No other adverse environmental impacts were identified. The checklist used to verify consideration of potential environmental impacts is attached.



Job 110709
Ditch No. 9 & Chatman Branch
Strs. & Apprs. (Hwys. 50 & 118)
Crittenden County





ARKANSAS DEPARTMENT OF TRANSPORTATION

ArDOT.gov | IDriveArkansas.com | Scott E. Bennett, P.E., Director

10324 Interstate 30 | P.O. Box 2261 | Little Rock, AR 72203-2261

Phone: 501.569.2000 | Voice/TTY 711 | Fax: 501.569.2400

103975.01
FHWA

January 31, 2020

AHPP

JAN 31 2020

Secretary Stacy Hurst
Arkansas Historic Preservation Program
1100 North Street
Little Rock, Arkansas 72201

AHPP

JAN 30 2020

RE: Job Number 110709
Ditch No. 9 & Chatman Branch
Strs. & Apprs. (S)
Route 50, Section 4
Route 118, Section 3
Crittenden County

Dear Secretary Hurst:

A Project Identification Form (PIF) for the referenced project is enclosed. Please review for concurrence with the findings of my staff. If you have any questions or require additional information, please contact Daniel Hildebran of my staff at (501) 569-4512.

Date

2-6-20

No known historic properties will be affected by this undertaking. This effect determination could change should new information come to light.

Arkansas State Historic Preservation Officer

Sincerely,

John Fleming

John Fleming
Division Head
Environmental Division

JF:KB:DH:cb

Enclosure
PIF

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency) Job 110709		3. Date of Land Evaluation Request		4. Sheet 1 of _____	
1. Name of Project		5. Federal Agency Involved			
2. Type of Project		6. County and State			
PART II (To be completed by NRCS)		1. Date Request Received by NRCS		2. Person Completing Form	
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 <input type="checkbox"/> NO <input type="checkbox"/>		4. Acres Irrigated Average Farm Size	
5. Major Crop(s)		6. Farmable Land 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		10. Date Land Evaluation Returned by NRCS	
PART III (To be completed by Federal Agency)		Alternative Corridor For Segment			
		<div style="display: flex; justify-content: space-between;"><div>Corridor A</div><div>Corridor B</div><div>Corridor C</div><div>Corridor D</div></div>			
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					
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))		Maximum Points			
1. Area in Nonurban Use		15			
2. Perimeter in Nonurban Use		10			
3. Percent Of Corridor Being Farmed		20			
4. Protection Provided By State And Local Government		20			
5. Size of Present Farm Unit Compared To Average		10			
6. Creation Of Nonfarmable Farmland		25			
7. Availability Of Farm Support Services		5			
8. On-Farm Investments		20			
9. Effects Of Conversion On Farm Support Services		25			
10. Compatibility With Existing Agricultural Use		10			
TOTAL CORRIDOR ASSESSMENT POINTS		160			
PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)		100			
Total Corridor Assessment (From Part VI above or a local site assessment)		160			
TOTAL POINTS (Total of above 2 lines)		260			
1. Corridor Selected:		2. Total Acres of Farmlands to be Converted by Project:		3. Date Of Selection:	
				4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>	
5. Reason For Selection:					

Signature of Person Completing this Part:

DATE

Joshua Graham

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 110709 FAP Number NHPP-0018(60)

Job Title Ditch No. 9 & Chatman Branch Strs. & Apprs. (S)

Environmental Resource	None	Minimal	Major	Comments-required for each item
Air Quality	X			No air quality/MSAT impacts
Cultural Resources	X			SHPO clearance attached
Economic	X			No adverse impacts
Endangered Species	X			"No effect" determinations
Environmental Justice/Title VI	X			EJ populations impacts not anticipated
Fish and Wildlife		X		Temporary during construction
Floodplains		X		Zone A and X
Forest Service Property	X			None in project area
Hazardous Materials/Landfills	X			No sites in project area
Land Use		X		Up to 9.54 acres of new Right of Way
Migratory Birds		X		Migratory Bird SP included
Navigation/Coast Guard	X			No navigable waterways involved
Noise Levels	X			No increases due to project
Prime Farmland		X		Up to 9.54 acres Prime Farmland converted; NRCS form attached
Protected Waters	X			None occur in project area
Public Recreation Lands	X			None in project area
Public Water Supply/WHPA	X			No impacts anticipated
Relocates	X			No relocations
Section 4(f)/6(f)	X			No impacts to 4f/6f resources
Social	X			No impacts to the social environment
Underground Storage Tanks	X			No USTs in project area
Visual	X			No changes to visual environment
Streams		X		Nationwide 14 Permit required
Water Quality		X		Temporary decline 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 Permit 14

Remarks: _____

Signature of Evaluator  Date 11/30/2020

PROJECT DESIGN CRITERIADATE: November 10, 2020

REV.: _____

JOB NO:	<u>110709</u>	ROUTE / SECTION:	<u>118/3⁽¹⁾, 50/4⁽²⁾</u>	LENGTH:	<u>0.038</u>	COUNTY:	<u>Crittenden</u>
JOB NAME:	<u>Ditch No. 9 & Chatman Branch Strs. & Apprs. (S)</u>					MIN ORDER:	<u>2018-080</u>
2021 ADT:	<u>250</u>	2041 ADT:	<u>300</u>	TRUCK:	<u>8%</u>	4-LANE GRID SYSTEM:	<u>No</u>
APHN:	<u>No</u>	INCENTIVE/DISINCENTIVE:	<u>No</u>	FUNCTIONAL CLASSIFICATION:	<u>Major Collector</u>		

EXISTING CONDITIONS			
ROADWAY WIDTH:	<u>24'</u>	WIDTH OF TRAVELED WAY:	<u>20'</u>
BIKE/PED ACCOMMODATIONS:	<u>N/A</u>	CRASH RATE:	<u>2.19⁽¹⁾, 0.00⁽²⁾</u>
		SHOULDERS (WIDTH/TYPE):	<u>2' unpaved</u>
		STATEWIDE CRASH RATE:	<u>1.06</u>

BRIDGE INFORMATION								
Bridge No.	Log Mile	Length x Width	Structure Type	BCI	Deck/Culvert Rating	Superstructure Rating	Substructure Rating	Posted
⁽¹⁾ M1829	10.590	47.0' x 23.3'	Timber Multi-Beam	34.22	6	5	4	0
⁽²⁾ M3876	8.420	50.0' x 27.5'	Concrete Tea Beam	44.78	6	5	7	1

** Refer to PDC Bridge Information Codes*

RECOMMENDED CRITERIA			
NO. OF LANES:	<u>2</u>	WIDTH:	<u>11'</u>
DIVIDED:	<u>No</u>	MEDIAN WIDTH:	<u>N/A</u>
BRIDGE WIDTHS:	<u>N/A</u>	DESIGN SPEED - RURAL:	<u>55 MPH</u>
DEGREE OF ACCESS CONTROL:	<u>None</u>	CLEAR ZONE:	<u>14' @ 6:1, 18' @ 4:1</u>
LOCATION OF INTERCHANGES:	<u>N/A</u>	CHANNELIZED INTERSECTION:	<u>N/A</u>
TRAFFIC SIGNALS:	<u>N/A</u>	RR X-ING PROTECTION:	<u>N/A</u>
BIKE/PED ACCOMMODATIONS:	<u>N/A</u>		
PREVIOUS PLANNING STUDY:	<u>N/A</u>		
STUDY FINDING:	<u>N/A</u>		

RECOMMENDED TYPE FUNDS:	<u>NHPP</u>
PRELIM COST ESTIMATE:	ROADWAY: <u>\$1,300,000</u> BRIDGE: <u>\$0</u> TOTAL: <u>\$1,300,000</u>

REMARKS:R.C. Box Culvert⁽¹⁾⁽²⁾

Use AASHTO Green Book

⁽¹⁾Site 1 - Hwy. 118, Section 3, L.M. 10.59⁽²⁾Site 2 - Hwy. 50, Section 4, L.M. 8.42**RECOMMENDED BY:**Charles Ellis: Charles R EllisTrinity Smith: Trinity SmithDate: 11/10/2020Date: 11-10-2020**APPROVED BY:**Mike Fugett: Date: 11-10-2020

AC Design

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