

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

Scott E. Bennett
Director
Telephone (501) 569-2000
Voice/TTY 711



P.O. Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400
www.arkansashighways.com

December 15, 2016

Mr. Angel Correa
Division Administrator
Federal Highway Administration
700 West Capitol, Room 3130
Little Rock, Arkansas 72201-3298

Re: Job Number CA0201
FAP Number ACNHPP-0002(32)
Bridge Numbers M0775 and M0776
LA. State Line-Hwy. 82 (Widening)(S)
Ashley County
Tier 3 Categorical Exclusion

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 AHTD/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 widen Highway 425 to four lanes along with a painted median. The project length is 9.34 miles. It extends from the Louisiana State Line to Highway 82 in Ashley County. A project location map is enclosed.

Existing Highway 425 consists of two 11-foot paved travel lanes and 4-foot paved shoulders. The existing right of way width is approximately 120 feet.

Proposed improvements include four 12-foot wide paved travel lanes with 8-foot wide shoulders and an 11-foot painted median. The average additional right of way will be 160 feet.

Two existing bridges (Bridge #'s M0775 & M0776) will be replaced with box culverts as shown in the following table. Approximately 57 acres of additional right of way will be required.

Bridge Number	Stream	Sufficiency Rating	Existing Structure	Proposed Structure
M0775	Hanks Creek	72.7	26' x 88' Composite integral W-beam w/concrete deck	Sextuple 12'x 10'x 124' R.C. Box Culvert
M0776	West Creek	72.7	26' x 88' Composite integral W-beam w/concrete deck	Sextuple 12'x 9'x 130' R.C. Box Culvert

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2017	1,500	33	60 mph
2037	1,800	33	60 mph

The traffic noise estimates for the project resulted in a noise abatement distance of 77 feet from the centerline of Highway 425 in the project area. No sensitive receptors will be affected by future noise levels greater than 66 dB(A). A noise analysis is enclosed.

There are no relocations, endangered species, or Executive Order 12898 Environmental Justice issues associated with the project. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. No impacts to cultural resources will occur; SHPO concurrence is enclosed. Approximately 46.5 acres of Prime Farmland will be converted to highway right of way. Form NRCS-CPA-106 is enclosed.

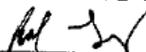
A public meeting was held for the proposed project on Tuesday, August 2, 2016. A public involvement synopsis is enclosed.

Construction of the proposed project will result in impacts to less than 0.5 acre of wetlands, nine ephemeral streams and seven intermittent streams. Construction activities include the replacement of bridges crossing West Creek and Hanks Creek with reinforced concrete box culverts. Impacts to the stream channels at each crossing are estimated to be less than 0.2 acre. Construction of this project should be allowed under terms of a Nationwide Permit Number 14 for Linear Transportation Projects as defined in the Federal Register 77(34):10183-10290.

Ashley County participates in the National Flood Insurance Program. All of the floodplain encroachments within this highway construction project will be designed to comply with the county's local flood damage prevention ordinance. The project lies within the Zone A, Special 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.

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

Sincerely,

APPROVED

Environmental Specialist
Federal Highway Administration
Date: 12/16/2016

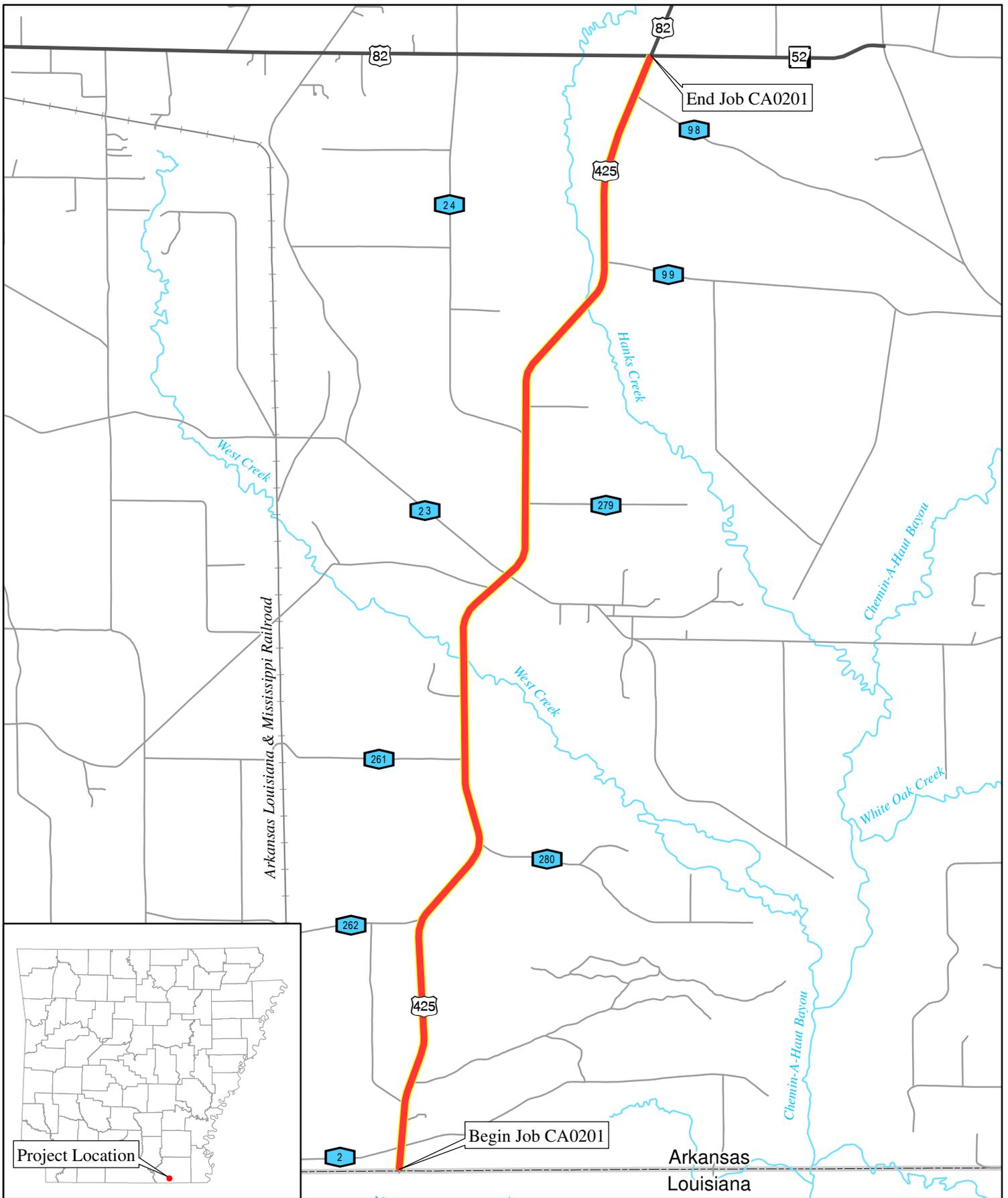


John Fleming
Division Head
Environmental Division

Enclosures

JF:SL:fc

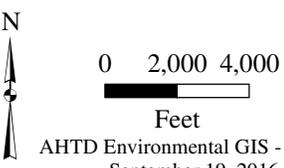
c: Program Management
Right of Way
Roadway Design
CAP Administrator
District 2
Master File



Project Location

Begin Job CA0201

End Job CA0201



Job CA0201
 Louisiana State Line - Hwy. 82 (Widening)
 (Hwy. 425)
 Ashley County



AHTD Environmental GIS - Dudley
 September 19, 2016



THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

December 2, 2016

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

RECEIVED
AHTD

DEC 07 2016

ENVIRONMENTAL
DIVISION

Arkansas Arts Council

Arkansas Natural
Heritage Commission

Arkansas State Archives

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars
Cultural Center

Old State House Museum

RE: Ashley County – General
Section 106 Review – FHWA
*Report Titled: A Cultural Resources Survey of AHTD Job Number
CA0201, LA. State Line – Hwy. 82 (Widening)(S), Ashley County,
Arkansas*
AHTD Job Number CA0201
AHPP Tracking Number 93845.01

Dear Mr. Fleming:

This letter is written in response to your inquiry regarding properties of architectural or historical significance in the area of the proposed referenced project. The staff of the Arkansas Historic Preservation Program has reviewed the documents included with your letter of November 18, 2016.

Based on the survey work conducted on portions of the two historic sites (3AS461 and 3AS462) that cross into the right of way (ROW), we concur that these portions are non-contributing. However, the portion outside the ROW will be considered unevaluated until further research can be conducted. We recommend a barrier be constructed to prevent work on this undertaking encroaching on the unevaluated area.

With that condition, we concur that this undertaking will have no adverse effect on historic properties.

Tribes that have expressed an interest in the area include: the Caddo Nation (Ms. Tamara Francis-Fourkiller), 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,

Frances McSwain
Deputy State Historic Preservation Officer



ARKANSAS HISTORIC
PRESERVATION PROGRAM



National Historic
Preservation Act 1966-2016



1100 North Street
Little Rock, AR 72201

(501) 324-9880
fax: (501) 324-9184
tdd: 711

e-mail:

info@arkansaspreservation.org

website:

www.arkansaspreservation.com

cc: Mr. Randall Looney, FHWA
Dr. Andrea Hunter, Osage Nation
Dr. Ann Early, Arkansas Archeological Survey

AHTD JOB NUMBER CA0201

NOISE ANALYSIS

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, cemeteries 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 2038.

Traffic noise analyses

Traffic noise analyses were performed for the project utilizing a roadway cross-section for Highway 425 consisting of four 12-foot paved travel lanes, one 11-foot turn lane, and paved shoulder widths of 8 feet.

Effects of Project

The traffic noise estimates for the project resulted in a noise abatement distance of 77 feet from the centerline of Highway 425 in the project area. No sensitive receptors will be affected by future noise levels greater than 66 dB(A).

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 AHTD's "Policy on Highway Traffic Noise Abatement", any noise abatement effort using barrier walls or berms is not warranted for this project. In order to provide direct access to the highway from adjacent properties, breaks in the barrier walls or berms would be required. These necessary breaks for highway access would render any noise barrier ineffective.

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 Southeast Arkansas Economic Development District for possible use in present and future land use planning.

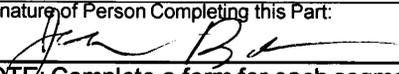
**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency) Job CA0201		3. Date of Land Evaluation Request 9/13/16	4. Sheet 1 of _____
1. Name of Project LA. State Line – Hwy. 82 (Widening) (S)	5. Federal Agency Involved FHWA		
2. Type of Project Highway Widening	6. County and State Ashley AR.		
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 NO		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			
	Corridor A	Corridor B	Corridor C	Corridor D
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	46.5			
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	15		
2. Perimeter in Nonurban Use	10	10		
3. Percent Of Corridor Being Farmed	20	15		
4. Protection Provided By State And Local Government	20	0		
5. Size of Present Farm Unit Compared To Average	10	0		
6. Creation Of Nonfarmable Farmland	25	0		
7. Availability Of Farm Support Services	5	5		
8. On-Farm Investments	20	0		
9. Effects Of Conversion On Farm Support Services	25	0		
10. Compatibility With Existing Agricultural Use	10	0		
TOTAL CORRIDOR ASSESSMENT POINTS	160	45		
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	45		
TOTAL POINTS (Total of above 2 lines)	260	145		

1. Corridor Selected: <input type="checkbox"/> New <input checked="" type="checkbox"/> Existing Location Adjacent to existing	2. Total Acres of Farmlands to be Converted by Project: 46.5 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 12/15/16

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

PUBLIC INVOLVEMENT SYNOPSIS

Job Number CA0201

Louisiana State Line – Highway 82 (Widening)(Hwy. 425)

Ashley County

Tuesday, August 2, 2016

An open forum public meeting for the proposed widening of Highway 425 was held at the Church of the Redeemer (Fellowship Hall) from 4:00 p.m. – 7:00 p.m. on Tuesday, August 2, 2016. Efforts to involve minorities and the public in the meeting included the following:

- Display advertisement placed in the *Ashley County Ledger* Wednesday, July 20, 2016 and Wednesday, July 27, 2016.
- Public Service Announcement to *Q-Lite KHMB 99.5* which aired on Thursday, July 28, 2016 through Tuesday, August 2, 2016.
- Outreach to Public Officials Letters.
- Distribution of flyers in the project area.

The following information was available for inspection and comment. Small-scale copies of the displays are attached.

- Aerial photograph illustrating the proposed project at a scale of 1 inch = 1,500 feet.
- Preliminary design of the proposed project at a scale of 1 inch = 100 feet.

Handouts for the public included a comment sheet and a small-scale map of the project location. Copies of these are attached.

Table 1 describes the results of the public participation at the meeting.

TABLE 1	
Public Participation	Totals
Attendance at meeting (including AHTD staff)	32
Comment forms received	12

AHTD staff reviewed all comments received and evaluated their contents. The summary of comments listed below reflects the personal perception or opinion of the person or organization making the statement. The sequencing of the comments is random and is not intended to reflect importance or numerical values. Some of the comments were combined and/or paraphrased to simplify the synopsis process.

An analysis of the responses received as a result of the public survey is shown in Table 2.

TABLE 2	
Alternative Preferred	Totals
Supports widening Highway 425	8
Does not support widening Highway 425	4
Knowledge of historical, archeological or cemetery sites	1
Knowledge of area environmental constraints	1

A listing of general comments concerning the proposed project follows:

- Most comments received were individual concerns such as loss of property and the depreciation of property value.
- Several property owners commented that it would be beneficial to widen to the side of the road where there are no houses rather than widen equally to both sides.
- Some respondents questioned the need for a four-lane highway and suggested that Highway 425 be repaired and more passing lanes be added.
- Several comments raised concerns about the use of culverts instead of bridges on this project due to the severe amount of flooding during heavy rain events.
- One individual reported a cemetery near the project.
- One individual reported the presence of an alligator in the pond south of the West Creek Bridge.

Attachments:

Public handouts, including blank comment form

Small-scale display copies

RJ: *RS*

DN: *DN*

SL:fc:cb

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT (AHTD)

CITIZEN COMMENT FORM

**AHTD JOB NUMBER CA0201
La. State Line-Highway 82 Widening (Hwy. 425)
ASHLEY COUNTY**

**LOCATION:
CHURCH OF THE REDEEMER
2220 HIGHWAY 425 S.
TUESDAY, AUGUST 2, 2016
4:00 P.M. – 7:00 P.M.**

Make your comments on this form and leave it with AHTD personnel at the meeting or mail it within 15 days to: Arkansas State Highway and Transportation Department, Environmental Division, Post Office Box 2261, Little Rock, Arkansas 72203-2261.
Email: environmentalpimeetings@ahtd.ar.gov.

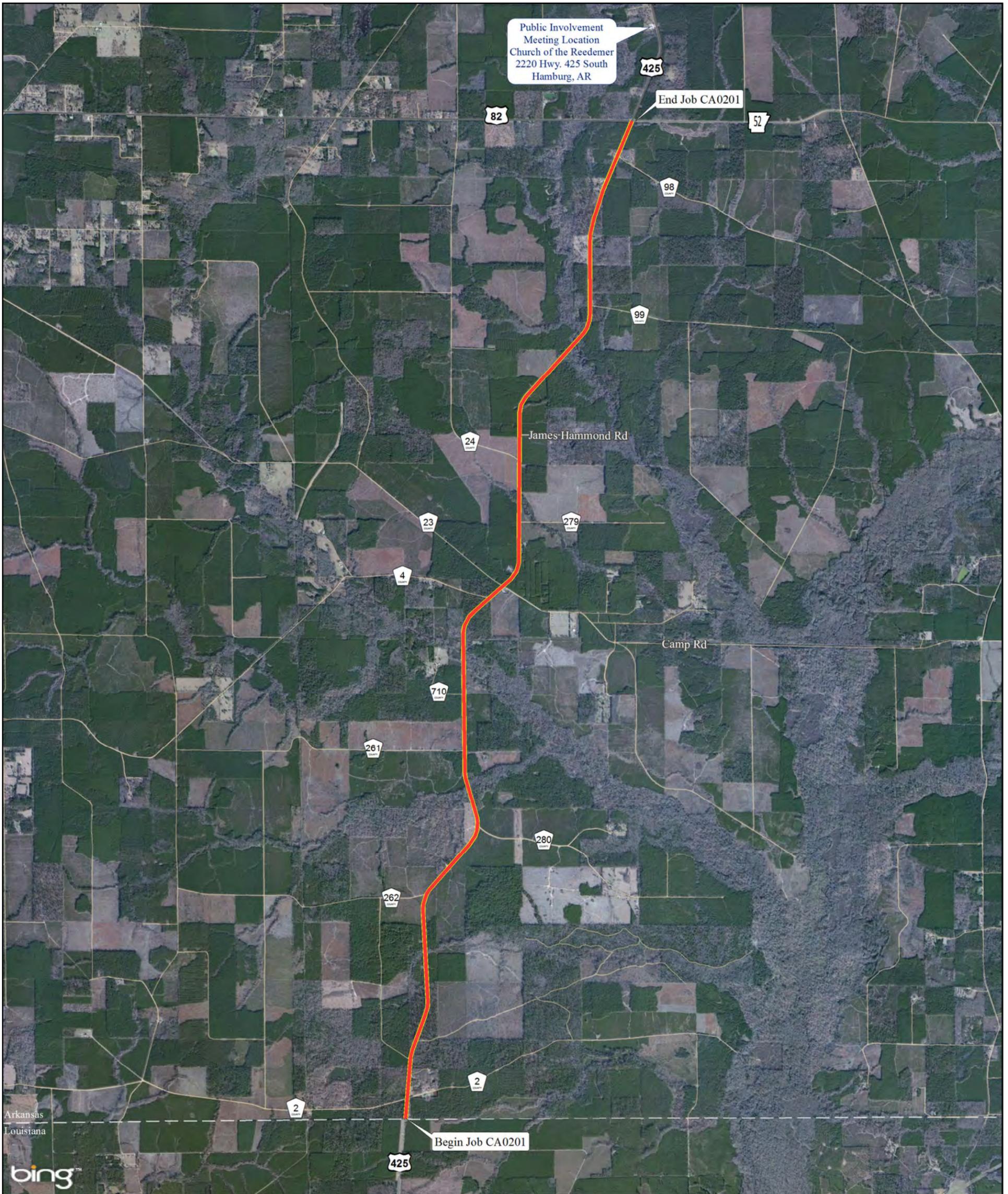
Yes No
 Do you feel there is a need to widen Highway 425 between the Louisiana State Line and Highway 82? Comment (optional) _____

 Do you know of any historical sites, family cemeteries, or archaeological sites in the project area? Please note and discuss with staff. _____

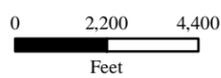
 Do you know of any environmental constraints, such as endangered species, hazardous waste sites, existing or former landfills, or parks and public lands in the vicinity of the project? Please note and discuss with AHTD staff. _____

 Does your home or property offer any limitations to the project, such as septic systems, that the Department needs to consider in its design? _____

(Continue on Back)



Arkansas
Louisiana



Job CA0201
La. State Line - Hwy. 82
(Widening) (Hwy. 425)
Ashley County

Preliminary
Subject to Revision



AHTD-Environmental GIS-Hopkins
Map Date - July 28, 2016
Meeting Date - August 2, 2016
Public Involvement Meeting Handout

Notes:

AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number CA0201 FAP Number ACNHPP-0002(32)
 Job Title LA. State Line-Hwy. 82 (Widening)(S)

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	X			
Construction Impacts		X		
Cultural Resources	X			Restraining Condition SP
Economic	X			
Endangered Species	X			
Energy Resources	X			
Environmental Justice/Title VI	X			
Fish and Wildlife	X			
Floodplains		X		
Forest Service Property	X			
Hazardous Materials/Landfills	X			
Land Use Impacts	X			
Migratory Birds		X		Bird SP
Navigation/Coast Guard	X			
Noise Levels	X			
Prime Farmland				
Protected Waters				
Public Recreation Lands	X			
Public Water Supply/WHPA		X		SP required.
Relocates	X			
Section 4(f)/6(f)	X			
Social	X			
Underground Storage Tanks	X			
Visual Impacts	X			
Stream Impacts		X		Replacing 2 bridges w/box culverts
Water Quality		X		Minor turbidity during construction
Wetlands		X		< 0.1 acres
Wildlife Refuges	X			

Section 401 Water Quality Certification Required? N
 Short-term Activity Authorization Required? Y
 Section 404 Permit Required? Y Type NW14

Remarks: _____

Signature of Evaluator Sherry LeBlanc Date 12-15-2016

May 16, 2016

ROADWAY DESIGN REQUEST

Job Number CA0201 FAP Number 9991 County Ashley
Job Name LA State Line – HWY. 82 (WIDENING) (S)
Design Engineer Crafton Tull and Associates Environmental Staff _____
Brief Project Description: Widen to four lanes with center turn lane on Hwy. 425

A. Existing Conditions:

1. Roadway Width: 22'
2. Shoulder Width: 4'
3. Number of Lanes and Width: 2 lanes @ 11'
4. Existing Right-of-Way: Approx. 120'

B. Proposed Conditions:

1. Roadway Width: 59'
2. Shoulder Width: 8' paved
3. Number of Lanes and Width: 4 lanes @ 12', 1 center turn lane @ 11'
4. Average Right-of-Way: Approx. 160'

C. Construction Information:

If detour: Where:

D. Design Data:

2017 ADT: 1,500 **2037** ADT: 1,800 Trucks 33%

Design Speed: 60 m.p.h.

E. Approximate total length of project: 9.34 mile(s)

F. Justification for proposed improvements: Increase Capacity

G. Total Relocates: 0 Residences: 0 Businesses: 0

H. Have you coordinated with any of the following: (Provide name and date)

City and or County Officials: _____

State Agency: _____

Federal Agency: _____

Environmental Document

AHTD JOB NUMBER CA0202

**Highway 425 – Hamburg (Widening) (S)
Ashley County, Arkansas**

Submitted Pursuant to Issue No. 1, An Amendment to Provide Additional Funding for
Highways, County Roads, City Streets, Bridges, and Surface Transportation
By the
Arkansas State Highway and Transportation Department

Prepared By
PARSONS

March 9, 2016

3/11/2016

Date of Approval

John Fleming

John Fleming
Environmental Division Head
Arkansas State Highway and
Transportation Department

The Connecting Arkansas Program Manager (CAPM) has reviewed the referenced project as a Non-NEPA project.

The purpose of this project is to improve capacity and safety on Highway 82, a major rural arterial. The total length of the project is 5.4 miles. It extends from the intersection of Highway 82 and Highway 425 to near Lion Drive in Hamburg, Ashley County. Figure 1 illustrates the project location.

The existing roadway consists of a two-lane rural arterial with intermediate auxiliary passing lanes. The existing roadway has two 12-foot traffic lanes and shoulder widths varying from 3-6 feet. Existing right of way width is 120 feet.

Proposed improvements include a rural section of four 12-foot wide paved travel lanes with an 11-foot paved median, and 8-foot wide shoulders. The proposed right of way width will range from 160 feet to 225 feet. Approximately 30 acres of additional right of way will be required for this project.

A Design Information sheet is attached, and design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2016	4,200	17	60 mph
2036	5,000	17	60 mph

Early correspondence with the U.S. Fish and Wildlife Service (USFWS) and a review of the Arkansas Natural Heritage Commission data identified two federally-endangered species potentially occurring in or near the proposed project area in Ashley County. These include the federally-listed endangered red-cockaded woodpecker (*Picoides borealis*) and pondberry (*Lindera melissifolia*). Arkansas Natural Heritage Commission data identified historic records for the red-cockaded woodpecker from within the Wilcoxon Forest near the southern terminus of the project. Additional coordination revealed that the colony had been previously translocated and the Wilcoxon Forest is no longer considered suitable habitat due to its distance to other colonies within the state. A review of the Natural Heritage database indicated that there are no known records of pondberry within the project area. Based on the prior translocation of historic red-cockaded woodpecker colonies and the distance to known pondberry populations, the project is not likely to adversely affect any listed species within the affected area. The USFWS concurred with the determination in a letter dated January 11, 2016.

One historic site within the proposed ROW, the Levi Wilcoxon Demonstration Forest (AS0034), was determined eligible for the National Register of Historic Places (NRHP). The cultural resources survey report was approved by the State Historic Preservation Officer (SHPO) in a letter dated September 16, 2015. A Memorandum of Agreement and Treatment Plan to mitigate for potential impacts will be prepared between the AHTD and the SHPO for the Levi Wilcoxon Demonstration Forest. The SHPO concurrence letters for the project are attached.

Should any cultural resources sites be found that are eligible or potentially eligible for nomination to the National Register of Historic Places and avoidance is not possible, then site specific treatment plans will be developed and submitted to the SHPO and the appropriate tribes for review and comment. A corresponding MOA between SHPO, the AHTD, and the appropriate tribes will then be implemented and the appropriate treatment plan will be carried out at the earliest practicable time.

A Preliminary Jurisdictional Determination Report for Waters of the U.S. was prepared for the project. That report defined the streams and wetlands identified during field investigations conducted in March 2015 and discussed the anticipated impacts associated with the project. A total of 17 streams and 11 wetlands were identified in the project corridor. Three perennial streams and 14 ephemeral streams were identified. Estimated permanent impacts are 396 linear feet of perennial streams and 1.23 acres of wetlands. Some impacts may be reduced during final design of the project. Compensatory mitigation for unavoidable impacts will be provided at an approved Arkansas Highway Transportation Department mitigation bank. The final compensatory wetland mitigation will be determined during the Section 404 permitting process. Construction of the proposed project should be allowed under a Section 404 Nationwide Permit 14 from the U.S. Army Corps of Engineers.

Ashley County participates in the National Flood Insurance Program. All of the floodplain encroachments within the highway construction project will be designed to comply with the county's local flood damage prevention ordinance. The project lies within the Zone A, Special 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. The project will not support incompatible use and development of the floodplain. 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 significant floodplain encroachment or significant risk to property or life.

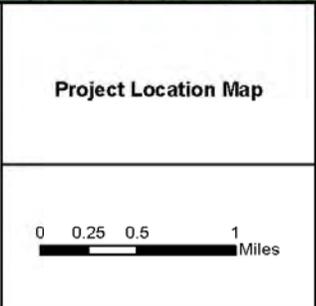
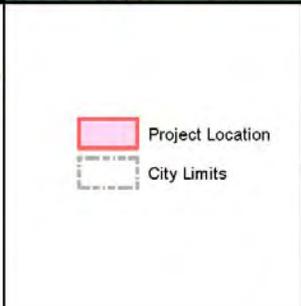
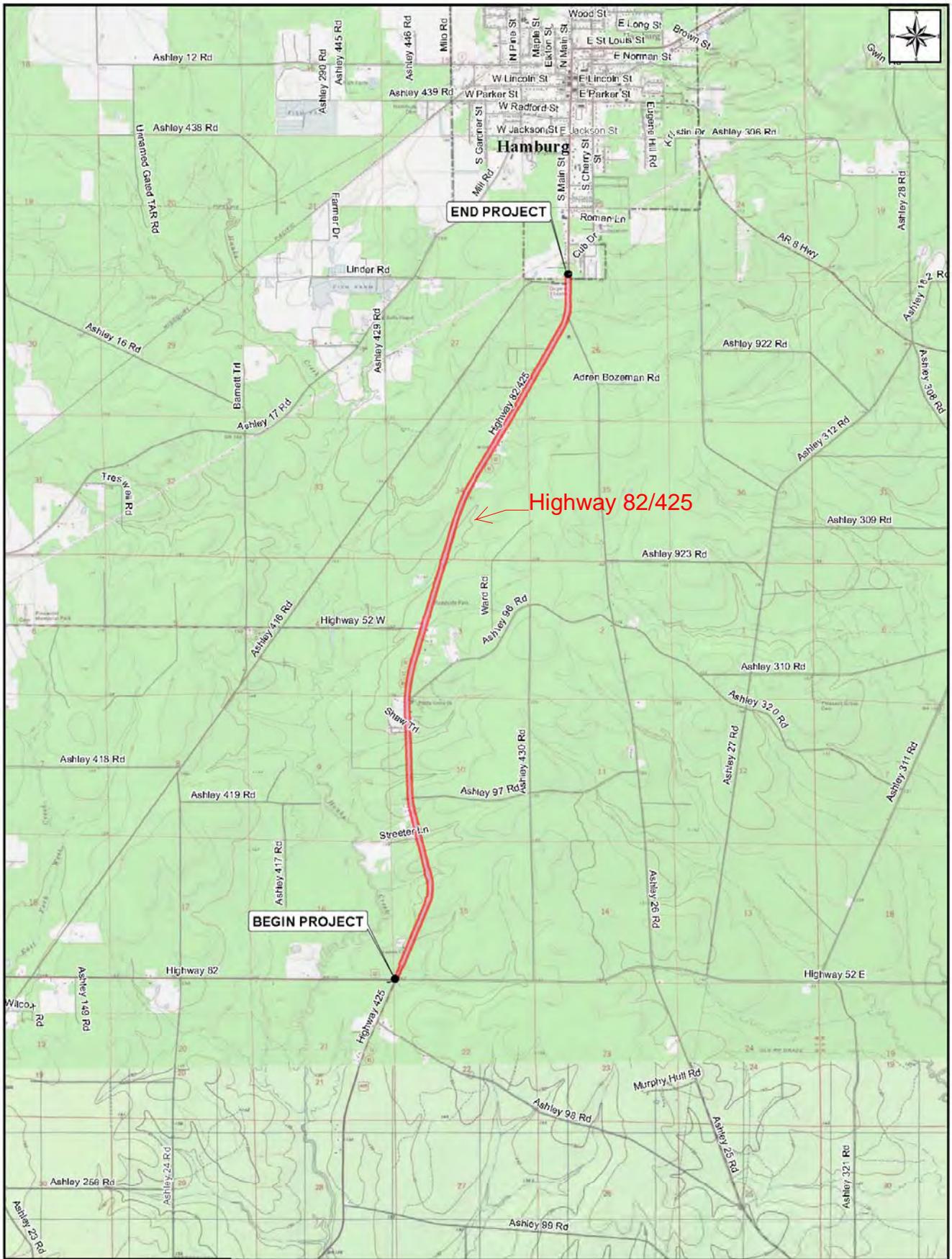
No relocations are anticipated with this project. Should any relocations be needed based on the final design, Public Law 91-646, Uniform Relocation Assistance Act of 1970 (URAA), as amended, will apply. There are no Executive Order 12898 Environmental Justice issues with this project.

No hazardous materials sites or areas of concern were identified within, or adjacent to, the environmental boundary for the proposed project. Should any hazardous or potentially hazardous materials be encountered during construction, the hazardous materials will be handled and disposed in accordance with applicable state, local, and federal laws and regulations.

An open-forum public involvement meeting for the proposed project was held at Hamburg Middle School in Hamburg, Arkansas from 4:00 - 7:00 p.m. on November 10, 2015. A public officials meeting was held at 3:00 p.m. on the same day. A synopsis of the meetings is attached.

Listing of Commitments:

- *Nesting Sites for Migratory Birds SP*
- *An approved wetland mitigation bank will be used for wetland and stream mitigation*
- *Short Term Activity Authorization*
- *NPDES Permit*
- *Floodplain Development Permit*
- *MOA for the Levi Wilcoxon Demonstration Forest (AS0034)*
- *URAA will be followed if needed*
- *Section 404 Nationwide Permit 14*



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

**CONNECTING ARKANSAS PROGRAM
HWY.425 - HAMBURG (WIDENING) (S)
ASHLEY COUNTY, ARKANSAS**

JOB CA0202

From: Lewis, Lindsey [mailto:lindsey_lewis@fws.gov]
Sent: Monday, January 11, 2016 2:40 PM
To: Seagraves, Josh
Subject: Re: CA0202 ESA concurrence

Josh,

The Service has reviewed the information you provided along with our records. We concur with your determination that this project is not likely to adversely affect any of the listed species identified within the affected area "based on the prior translocation of the historic red-cockaded woodpecker colony and the distance to known pondberry populations."

No further coordination is necessary at this time.

Thanks,

Lindsey Lewis
Biologist

US Fish & Wildlife Service
Arkansas Field Office
110 South Amity Rd., Suite 300
Conway, Arkansas 72032

(501) 513-4489 - voice
(501) 513-4480 - fax
Lindsey.Lewis@fws.gov
[http://www.fws.gov/arkansas-es/\[fws.gov\]](http://www.fws.gov/arkansas-es/[fws.gov])

On Tue, Jan 5, 2016 at 3:09 PM, Seagraves, Josh <Josh.Seagraves@ahtd.ar.gov> wrote:

Lindsey,

AHTD project CA0202 Hwy. 425 – Hamburg will widen a 5.32 mile section of Hwy 82 between the intersection of Hwy. 425 east of Crossett and the city of Hamburg in Ashley County. The roadway will be widened to accommodate four 12-foot travel lanes with an 11-foot painted median. Previous correspondence with your office identified the red-cockaded woodpecker and pondberry occurring within Ashley County. Arkansas Natural Heritage Commission data identifies historic records for the red-cockaded woodpecker from within the Wilcoxin Forest near the southern terminus of the project. Through personal communication with Erin Leone it was determined that this colony had been previously translocated and was not considered suitable habitat due to its distance to other colonies within the state. There are no known records of pondberry within the project area. Therefore, based on the prior translocation of the historic red-cockaded woodpecker colony and the distance to known pondberry populations it is determined that the project is not likely to adversely affect these species. We request your concurrence in this determination.

Thank you.

Josh Seagraves
Section Head – Special Studies
Arkansas Highway and Transportation Dept.
PO Box 2261, Little Rock, AR 72203
P: 501-569-2522 F: 501-569-2009
Josh.Seagraves@ahd.ar.gov



THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

Arkansas Arts Council

Arkansas Natural Heritage
Commission

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars
Cultural Center

Old State House Museum



Arkansas Historic
Preservation Program



323 Center Street, Suite 1500
Little Rock, AR 72201

(501) 324-9880
fax: (501) 324-9184
tdd: 711

e-mail:
info@arkansaspreservation.org
website:
www.arkansaspreservation.com

An Equal Opportunity Employer

June 10, 2015

Mr. Bill McAbee
CAP Environmental Program Manager
Arkansas State Highway and Transportation Department
Connecting Arkansas Program
P.O. Box 2261
Little Rock, AR 72203-2261

RE: Ashley County - Hamburg
Section 106 Review – FHWA
Request for Technical Assistance
AHTD Job Number CA0202
Hwy. 425 – Hamburg (Widening) (S)
AHPP Tracking Number 93222

Dear Mr. McAbee:

This letter is written in response to your inquiry regarding properties of architectural or historical significance in the area of the proposed referenced project. The staff of the Arkansas Historic Preservation Program has reviewed the documents contained in your June 8, 2015 letter and has determined that of the twenty-one (21) structures surveyed, nineteen (19) structures (Structures A-AS0108, B-R, and T) are ineligible for inclusion in the National Register of Historic Places while two (2) structures (AS0034-Levi Wilcoxon Demonstration Forest and Structure S) are eligible.

Once the undertaking is further along in the planning stages, we look forward to reviewing the cultural resources survey report of the proposed project. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Theresa Russell of my staff at (501)-324-9357.

Sincerely,

Frances McSwain
Deputy State Historic Preservation Officer

cc: Mr. John Fleming, Arkansas Highway and Transportation Department
Ms. Tamara Francis-Fourkiller, Caddo Nation
Mr. Everett Bandy, Quapaw Tribe of Oklahoma
Ms. Kim Jumper, Shawnee Tribe of Oklahoma
Dr. Ann Early, Arkansas Archeological Survey



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e-mail:

info@arkansaspreservation.org

website:

www.arkansaspreservation.com

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September 16, 2015

Mr. Bill McAbee
CAP Environmental Project Manager
Arkansas State Highway & Transportation Department
Connecting Arkansas Program
P.O. Box 2261
Little Rock, AR 72203-2261

RE: Ashley County – General
Section 106 Review – FHWA
Report Titled *Cultural Resources Survey for the Route 82 Section 8
Widening Project (AHTD Job No. CA0202) from Hamburg to Highway
425 Ashley County, Arkansas*
AHPP Tracking Number 93222.1

Dear Mr. McAbee:

The Staff of the Arkansas Historic Preservation Program has review the above-referenced cultural resources survey report. The report documents fieldwork for a road widening project and is acceptable.

We concur that site AS0034, the Levi Wilcoxon Demonstration Forest (LWDF), is eligible for inclusion on the National Register of Historic Places under Criterion A. Based on this, we find that the proposed clearing/grubbing and construction work to be conducted within the proposed new right of way, located inside the boundaries of the LWDF, will constitute an adverse effect. We recommend that impacts to the LWDF be avoided or a Memorandum of Agreement (MOA) be developed to mitigate the adverse effect.

Thank you for the opportunity to review this undertaking. We look forward to reviewing the draft Section 4(f) and MOA produced for the project. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Bob Scoggin of my staff at 501-324-9270

Sincerely,

Frances McSwain
Deputy State Historic Preservation Officer

cc: Mr. Randall Looney, Federal Highway Administration
Ms. Tamara Francis-Fourkiller, Caddo Nation
Dr. Andrea Hunter, Osage Nation
Ms. Kim Jumper, Shawnee Tribe of Oklahoma
Mr. C. Andrew Buchner, Panamerican Consultants, Inc.
Dr. Ann Early, Arkansas Archeological Survey



Public Meeting Synopsis

Job CA0202

Hwy 425—Hamburg (Widening) (Hwy 82)

Ashley County

November 10, 2015

An open-forum public involvement meeting for the proposed Hwy 425—Hamburg widening (Hwy 82) was held at Hamburg Middle School (Gym) in Hamburg, Arkansas from 4:00 – 7:00 p.m. on November 10, 2015. A public officials meeting was held at 3:00 p.m. on the same day. Efforts to involve minorities and local property owners in the meeting included:

- Display advertisements were placed in the Ashley County Ledger on November 4, 2015.
- Display advertisements were placed in Hola Arkansas on October 23, 2015.
- Radio Public Service Announcements (PSA) were run twice a day from November 7 through November 10, 2015 on KMLK 101.5.
- Letters to public officials were mailed and emailed on October 20, 2015 and fliers were mailed on October 23, 2015.
- Letters to ministers were mailed on October 27, 2015 and emailed October 27, 2015.
- Fliers to adjacent property owners were mailed October 26, 2015.
- Fliers to stakeholders and people interested in the project were mailed and emailed October 27, 2015.
- Meeting notice fliers were delivered door-to-door along project route November 4, 2015.
- A news release was distributed to the media on November 5, 2015.
- A meeting announcement was listed on ConnectingArkansasProgram.com on October 23, 2015 and ArkansasHighways.com on October 23, 2015.



Public Meeting Synopsis

The following information was available for inspection and comment:

- Two aerial photograph roll plots at a scale of 1" = 200', illustrating the entire length of the proposed project.
- Two 24" x 36" aerial photographs on mounted boards at a scale of 1" = 1000', illustrating the entire length of the proposed project.
- Two 24" x 36" boards showing the proposed typical section of improvements for Highway 82.
- Three CAP informational boards.

Handouts for the public included a comment sheet and a small-scale map illustrating the project location, which was identical to the aerial photography display. Copies of these are attached to this synopsis.

Table 1 describes the results of public official's participation at the meeting.

Table 1	
Public Officials Participation	Total
Attendance at meeting (including AHTD and CAP staff)	13
Total comments received	1

Dane Weindorf, Hamburg Mayor, submitted a comment. He stated the intersection of Hwy. 82/52/425 has had several fatalities with vehicles running the stop sign on Hwy. 82 and Hwy. 52. He requested a flashing stop sign like was installed north of Hamburg on another project.

Table 2 describes the results of public participation at the 4-7 p.m. meeting.

Table 2	
Public Participation	Total
Attendance at meeting (including AHTD and CAP staff)	57
Comments received	13



Public Meeting Synopsis

Crafton Tull reviewed all comments received and evaluated their contents. The summary of comments listed below reflects the personal perception or opinion of the person or organization making the statement. The sequencing of the comments is random and is not intended to reflect importance or numerical values. Some of the comments were combined and/or paraphrased to simplify the synopsis process.

An analysis of the responses received from the public survey is shown in Table 3.

Survey Results	Totals
Supports improvements to Highway 82	12
Does not support improvements to Highway 82	1
Believes the project would have beneficial impacts	5
Believes the project would have adverse impacts	0
Knowledge of historical, archeological or cemetery sites	2
Knowledge of area environmental constraints	0
Home or property offers limitations to the project that need to be considered during the design	0
Suggestion to better serve the needs of the community	2
Additional Comments	3
Total Comments Received	13

The following is a listing of comments concerning issues associated with this project:

- One respondent stated he had a potential borrow site on his property if needed.
- One respondent commented the project was very well presented.



Public Meeting Synopsis

- One respondent stated they appreciated the information and answers provided at the meeting.
- One respondent stated they were concerned about traffic for school buses.
- One respondent stated they wanted the project to extend to the state line.
- One respondent stated that side ditches were needed for good drainage on both sides of the highway.

Attachments:

- Blank comment form
- Public officials sign-in sheet
- Public meeting sign-in sheets
- 11x17 map handout
- Small-scale copy of the display board
- Typical Section of Improvements board

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT (AHTD)



CITIZEN COMMENT FORM

AHTD JOB NUMBER CA0202
HIGHWAY 425—HAMBURG (WIDENING) (HIGHWAY 82)
ASHLEY COUNTY

LOCATION:
HAMBURG MIDDLE SCHOOL (GYM)
1109 CUB ST., HAMBURG, AR
4:00 – 7:00 P.M.
TUESDAY, NOVEMBER 10, 2015

Make your comments on this form and leave it with AHTD Connecting Arkansas Program personnel at the meeting or mail it within 15 days to: AHTD Connecting Arkansas Program, Attn: Jon Hetzel, 4701 Northshore Drive, North Little Rock, AR 72118.

Email: Info@ConnectingArkansasProgram.com.

Yes **No**

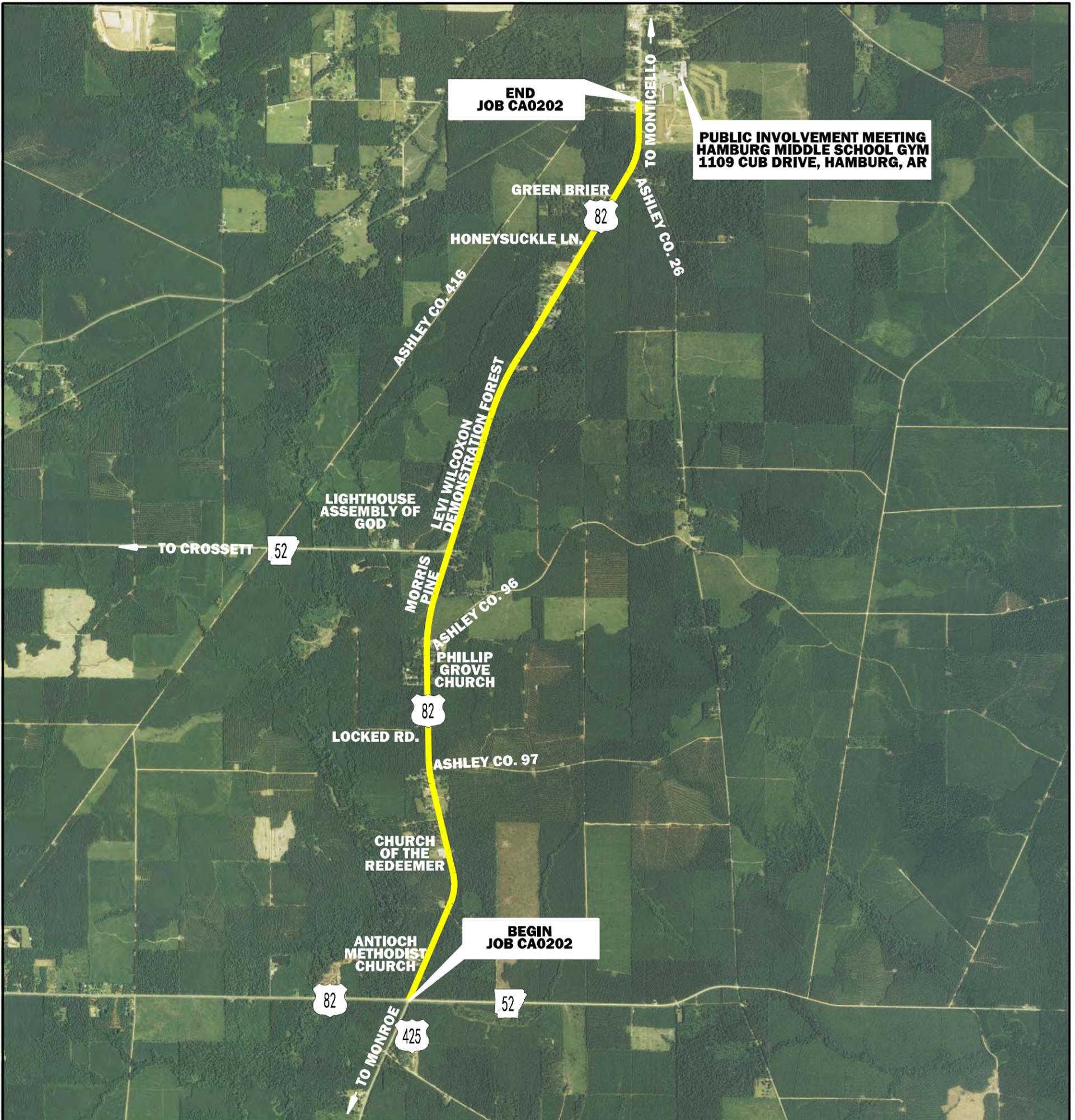
 Do you feel there is a need for the proposed widening of Hwy 82 between Hwy 425 and Hamburg? _____

 Do you feel that the proposed widening project will have any impacts (Beneficial or Adverse) on your property and/or community (either economically, socially, or environmentally, etc.)? Please explain. _____

 Do you know of any historical sites, family cemeteries, or archaeological sites in the proposed area? Please note and discuss with staff. _____

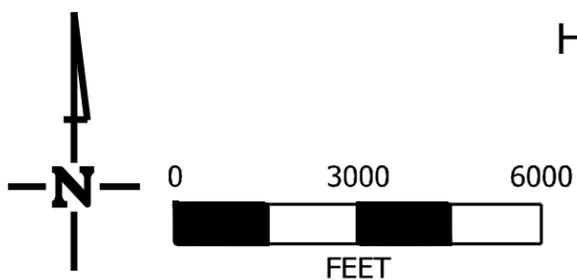
 Do you know of any environmental constraints, such as endangered species, hazardous waste sites, existing or former landfills, or parks and public lands in the vicinity of the project? Please note and discuss with staff. _____

(Continued on back)



NOTES:

HWY. 425 - HAMBURG (WIDENING) (S)
 ROUTE 82 SECTION 8
 ASHLEY COUNTY
 AHTD JOB CA0202

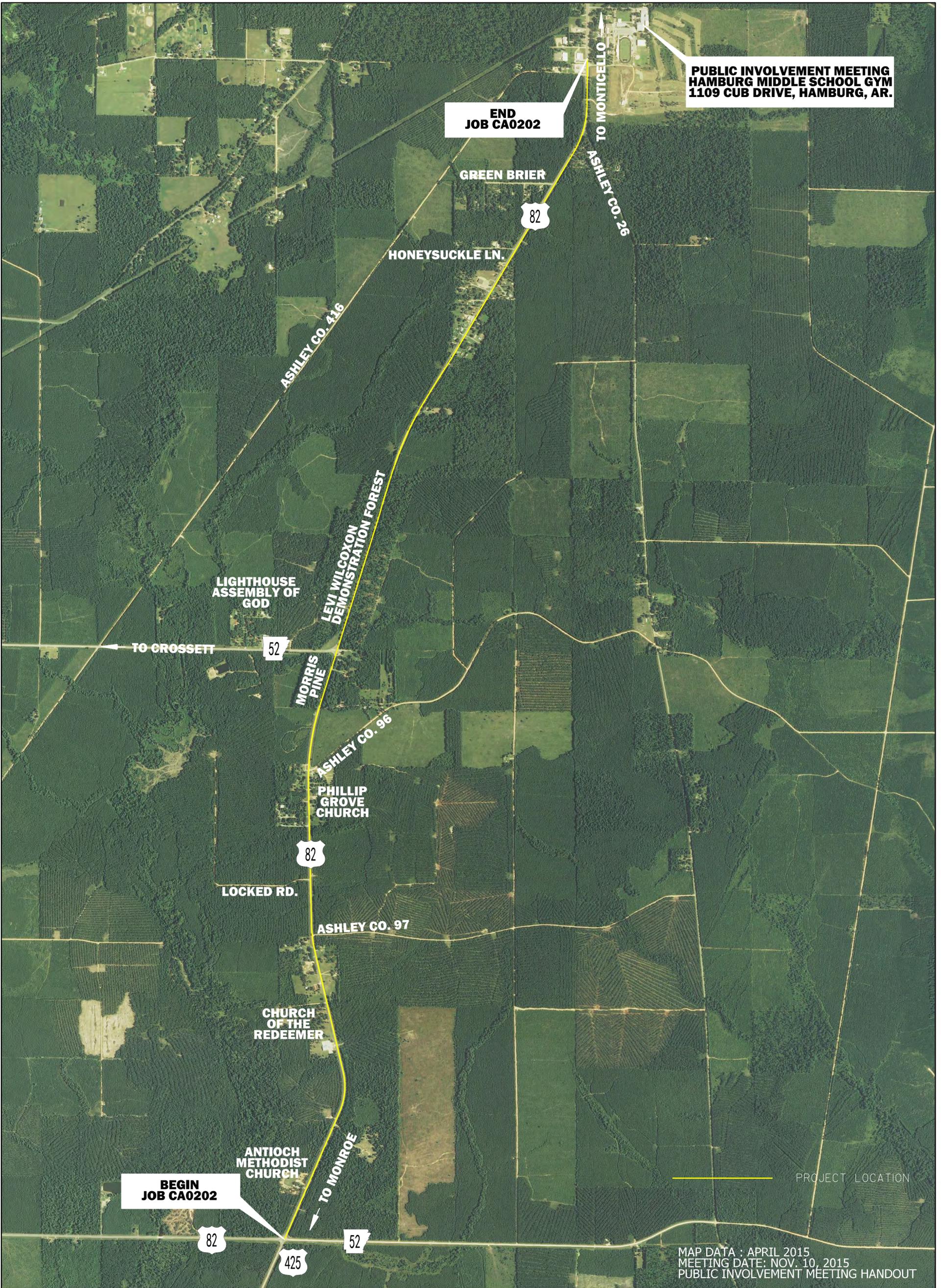


MAP DATA : APRIL 2015
 MEETING DATE: NOV. 10, 2015
 PUBLIC INVOLVEMENT MEETING HANDOUT

PROJECT LOCATION

**PRELIMINARY
 SUBJECT TO REVISION**





**PUBLIC INVOLVEMENT MEETING
HAMBURG MIDDLE SCHOOL GYM
1109 CUB DRIVE, HAMBURG, AR.**

**END
JOB CA0202**

**BEGIN
JOB CA0202**

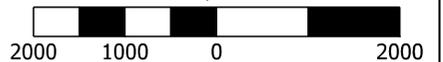
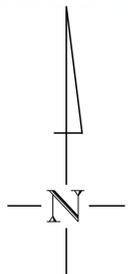
MAP DATA : APRIL 2015
MEETING DATE: NOV. 10, 2015
PUBLIC INVOLVEMENT MEETING HANDOUT

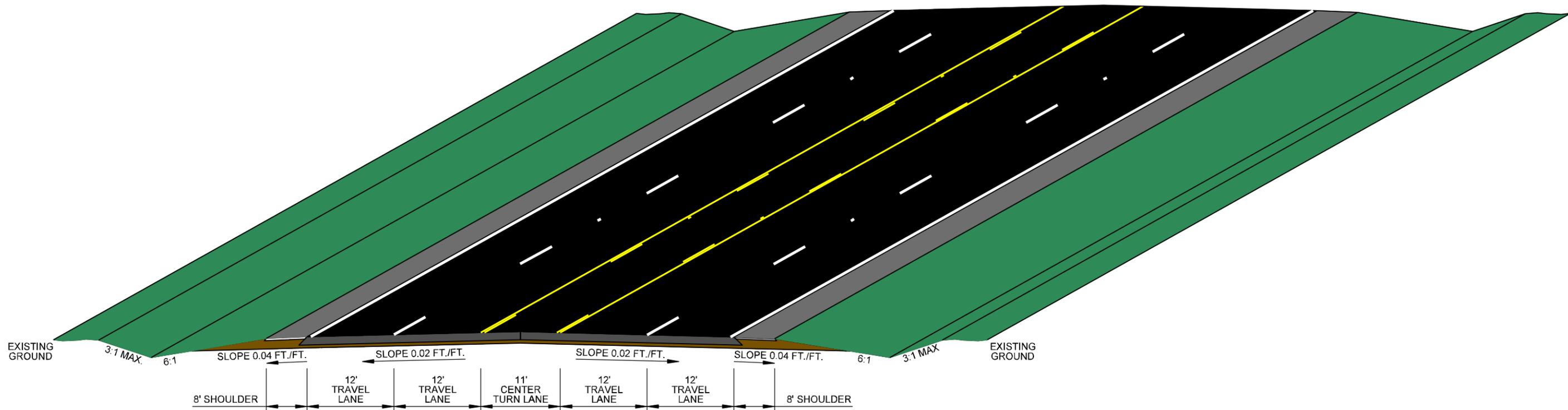


**HWY. 425 - HAMBURG
(WIDENING) (S)
ROUTE 82 SECTION 8
ASHLEY COUNTY
AHTD JOB CA0202**



**PRELIMINARY
SUBJECT TO REVISION**





TYPICAL SECTION OF IMPROVEMENTS
HWY 82

PRELIMINARY
SUBJECT TO REVISION



HWY. 425 - HAMBURG
(WIDENING) (S)
ROUTE 82 SECTION 8
ASHLEY COUNTY
AHTD JOB CA0202



AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number CA0202 FAP Number _____

Job Title Hwy 425-Hamburg (Widening) (S), Ashley County

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	X			
Construction Impacts		X		Temporary minor impacts
Cultural Resources		X		MOA to be developed for impacts to Levi Wilcoxon Demonstration Forest (AS0034)
Economic	X			
Endangered Species	X			
Energy Resources	X			
Environmental Justice/Title VI	X			
Fish and Wildlife	X			
Floodplains		X		Floodplain encroachments, no change to BFE
Forest Service Property	X			
Hazardous Materials/Landfills	X			
Land Use Impacts	X			
Migratory Birds		X		Include in Special Provisions
Navigation/Coast Guard	X			
Noise Levels	X			
Prime Farmland	X			
Protected Waters	X			
Public Recreation Lands	X			
Public Water Supply/WHPA	X			
Relocates	X			
Section 4(f)/6(f)	X			
Social	X			
Underground Storage Tanks	X			
Visual Impacts	X			
Stream Impacts		X		Up to 396 linear feet of impacts
Water Quality		X		Temporary during construction
Wetlands		X		1.23 acres of impacts
Wildlife Refuges	X			

Section 401 Water Quality Certification Required? Yes
 Short-term Activity Authorization Required? Yes
 Section 404 Permit Required? Yes Type Nationwide 14

Remarks: Mitigation will be calculated prior to the 404 permit application and mitigation through an approved mitigation bank.

Signature of Evaluator *Joel Budnik* Date 2/11/16

DESIGN INFORMATION

Job Number CA0202 FAP Number _____ County Ashley

Job Name Highway 425- Hamburg (Widening) (S)

Design Engineer Crafton Tull

Brief Project Description Approximately 5.4 miles of the existing two lane roadway will be widened to a 5 lane section.

EXISTING CONDITIONS:

Roadway Width: 24' Shoulder Width: 3'-6'

Number of Lanes and Width: 2 @ 12'

Average Existing ROW Width 120'

PROPOSED CONDITIONS:

Roadway Width: 59' Shoulder Width: 8'

Number of Lanes and Width: 4 @ 12' and 1 @ 11' center turn lane

Average Proposed ROW Width 165'

CONSTRUCTION INFORMATION:

If detour: Where N/A Length N/A

DESIGN DATA:

2016 ADT 4200 2036 ADT 5000 %Trucks 17 Design Speed 45/60 mph

Approximate total length of project: 5.4 mile(s)

Justification for improvements: To increase both safety and capacity of this major rural arterial.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
LITTLE ROCK DISTRICT, CORPS OF ENGINEERS
POST OFFICE BOX 867
LITTLE ROCK, ARKANSAS 72203-0867
www.swl.usace.army.mil/

February 1, 2018

Regulatory Division

NATIONWIDE PERMIT NO. MVK 2018-00092

Mr. John Fleming
Division Head, Environmental Division
Arkansas Department of Transportation
PO Box 2261
Little Rock, Arkansas 72203-2261

Dear Mr. Fleming:

Please refer to your recent request concerning Department of the Army permit requirements pursuant to Section 404 of the Clean Water Act. You requested authorization for the placement of dredged and fill material in waters of the United States associated with widening 9.3 miles of U.S. Highway 425 from two lanes to four lanes. Proposed improvements include four 12-foot-wide travel lanes, 8-foot-wide shoulders and 11-foot-wide painted median. The project will be constructed on existing alignment and will cross sixteen streams. Named streams include Hanks Creek and West Creek, the other fourteen streams are unnamed. The project will replace the bridges over Hanks Creek, West Creek and one unnamed stream with concrete box culverts. The culverts at all other stream crossings will be retained and extended to accommodate embankment widening. Impacts at all stream crossings will be less than 0.1 acres. A total of 0.2 acres of wetlands will be adversely impacted by the project. Approximately 57 acres of additional right-of-way will be required for the project. There are no endangered species or cultural resources impacts.

The project was approved by the ArDOT and Federal Highway Administration as a Tier 3 Categorical Exclusion on December 16, 2016. Approximately 0.5 miles of the project will be constructed in Louisiana and 8.8 miles will be constructed in Arkansas. Through a cooperative agreement with the Louisiana Department of Transportation, ArDOT will oversee all construction. The project is located approximately five miles southeast of Crossett in section 9, T. 23 N., R. 6 E., Morehouse Parish, Louisiana, in sections 5, 8, 17, 20, 29, 31, and 32, T. 19 S., R. 7 W., and in sections 21, 28, 32 and 33, T. 18 S., R. 7 W., Ashley County, Arkansas. A vicinity map, project location maps and wetland impacts worksheet are enclosed.

The proposed activities are authorized by Department of the Army Nationwide Permit (NWP) **No. 23** (copy enclosed), provided that the following **Special Condition** and General Conditions therein are met. For your convenience, we have highlighted the General Conditions of the NWP that are the most pertinent to your project. You should become familiar with the conditions and

maintain a copy of the permit at the worksite for ready reference. If changes are proposed in the design or location of the project, you should submit revised plans to this office for approval before construction of the change begins.

Special Condition:

- 1. The ArDOT agrees to mitigate for the adverse impacts to 0.2 acres of wetlands with 2.0 wetland credits at an approved mitigation bank before construction of the project begins. The ArDOT will provide documentation of the mitigation bank transaction to the U.S. Army Corps of Engineers Little Rock District Transportation Program Manager.**

Please pay particular attention to General Condition No. 12 which stipulates that appropriate erosion and siltation controls be used during construction and all exposed soil be permanently stabilized. Erosion control measures must be implemented before, during and after construction.

Also, in order to fully comply with the conditions of the NWP, you must submit the enclosed compliance certification within 30 days of completion of the project. This is required pursuant to General Condition No. 30 of the permit.

For your information, we have enclosed a copy of the Arkansas Department of Environmental Quality (ADEQ) Section 401 Water Quality Certification conditions, which are conditions of your permit. If you have any questions concerning compliance with the conditions of the 401 certification, you should contact Ms. Lazendra Hairston at the ADEQ, Water Division, 5301 Northshore Drive, North Little Rock, Arkansas 72118, telephone (501) 682-0645. We have also enclosed a copy of the Louisiana Department of Environmental Quality Section 401 certification. If you have any questions regarding this certification, you should contact Ms. Elizabeth Hill at (225) 219-3225, or by email at Elizabeth.Hill@La.gov.

The NWP determination will be valid until March 18, 2022. If NWP No. 23 is modified, suspended, or revoked during this period, your project may not be authorized unless you have begun or are under contract to begin the project. If work has started or the work is under contract, you would then have twelve (12) months to complete the work.

Your cooperation in the Regulatory Program is appreciated. If you have any additional questions about this permit or any of its provisions, please contact Mr. Johnny McLean at (501) 324-5295 and refer to Permit No. **MVK 2018-00092, U.S. Highway 425 widening southeast of Crossett (ArDOT Project No. CA0201).**

Sincerely,



Sarah Chitwood

Chief, Regulatory Evaluation Branch

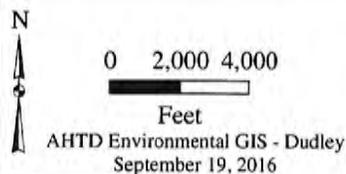
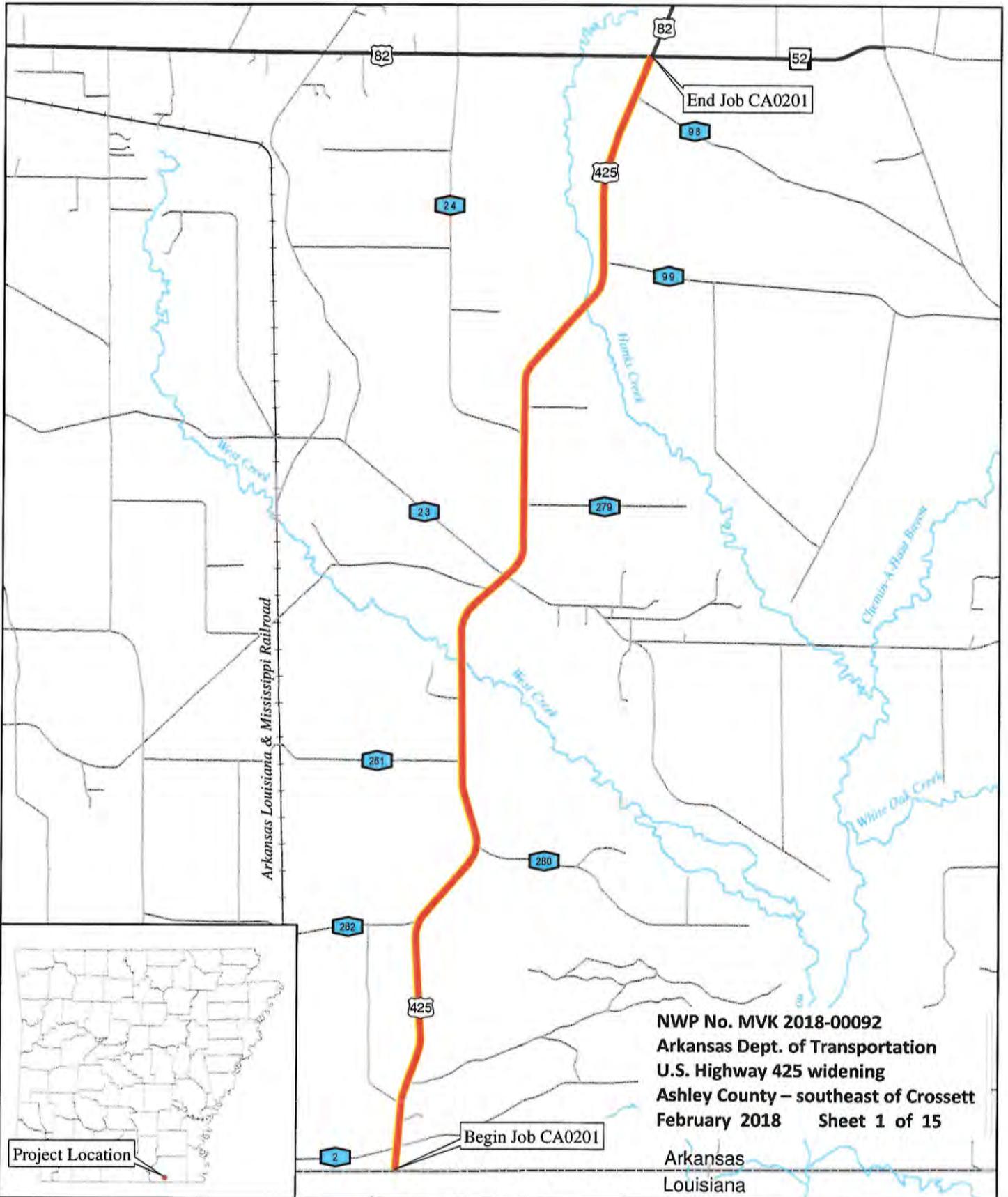
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Vicksburg District Regulatory, w/cy dwgs

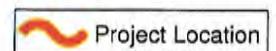
Ms. Lazendra Hairston, Arkansas Department of Environmental Quality, w/cy dwgs

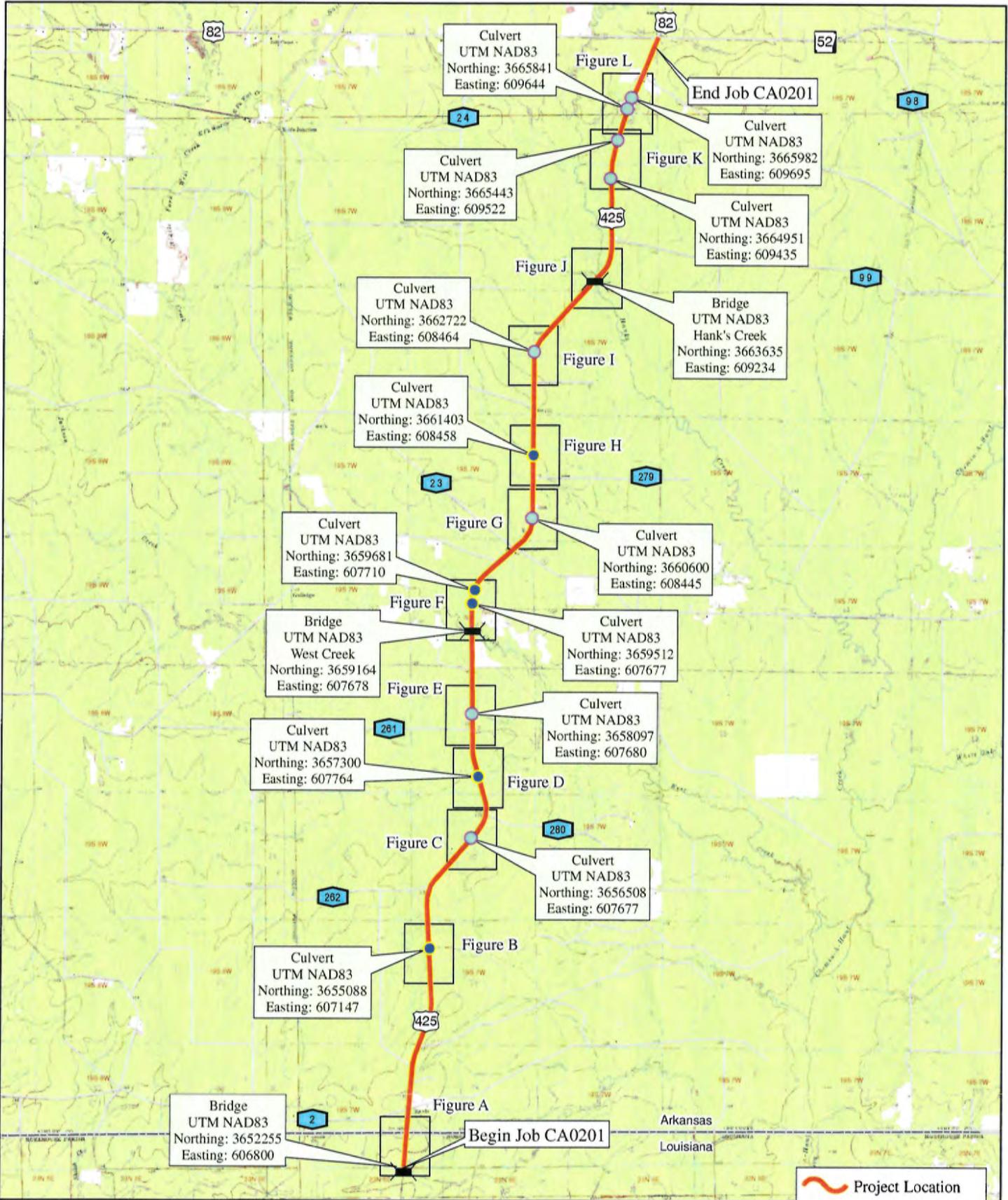
Mr. Lindsey Lewis, U.S. Fish & Wildlife Service, w/cy dwgs

Ms. Elizabeth Hill, Louisiana Department of Environmental Quality, w/cy dwgs



Job CA0201
 Louisiana State Line - Hwy. 82 (Widening)
 (Hwy. 425)
 Ashley County





Bridge
UTM NAD83
Northing: 3652255
Easting: 606800

Figure A

Begin Job CA0201

Culvert
UTM NAD83
Northing: 3655088
Easting: 607147

Figure B

Culvert
UTM NAD83
Northing: 3657300
Easting: 607764

Figure C

Bridge
UTM NAD83
West Creek
Northing: 3659164
Easting: 607678

Figure D

Culvert
UTM NAD83
Northing: 3659681
Easting: 607710

Figure E

Culvert
UTM NAD83
Northing: 3661403
Easting: 608458

Figure F

Culvert
UTM NAD83
Northing: 3662722
Easting: 608464

Figure G

Bridge
UTM NAD83
Hank's Creek
Northing: 3663635
Easting: 609234

Figure H

Culvert
UTM NAD83
Northing: 3664951
Easting: 609435

Figure I

Culvert
UTM NAD83
Northing: 3665982
Easting: 609695

Figure J

Culvert
UTM NAD83
Northing: 3665443
Easting: 609522

Figure K

Culvert
UTM NAD83
Northing: 3665841
Easting: 609644

Figure L

End Job CA0201

N

0 2,500 5,000
Feet

AHTD Environmental GIS - Dudley
July 18, 2017

Index
Job CA0201
Louisiana State Line - Hwy. 82
(Widening) (Hwy. 425)
Ashley County

Project Location

Ephemeral Stream

Intermittent Stream

Bridge

Sheet 2 of 15

USGS Topographic Maps:
Berlin 1973; Hamburg 1973



N

0 150 300

Feet

Job CA0201

AHTD Environmental GIS - Dudley

July 13, 2017

Figure A

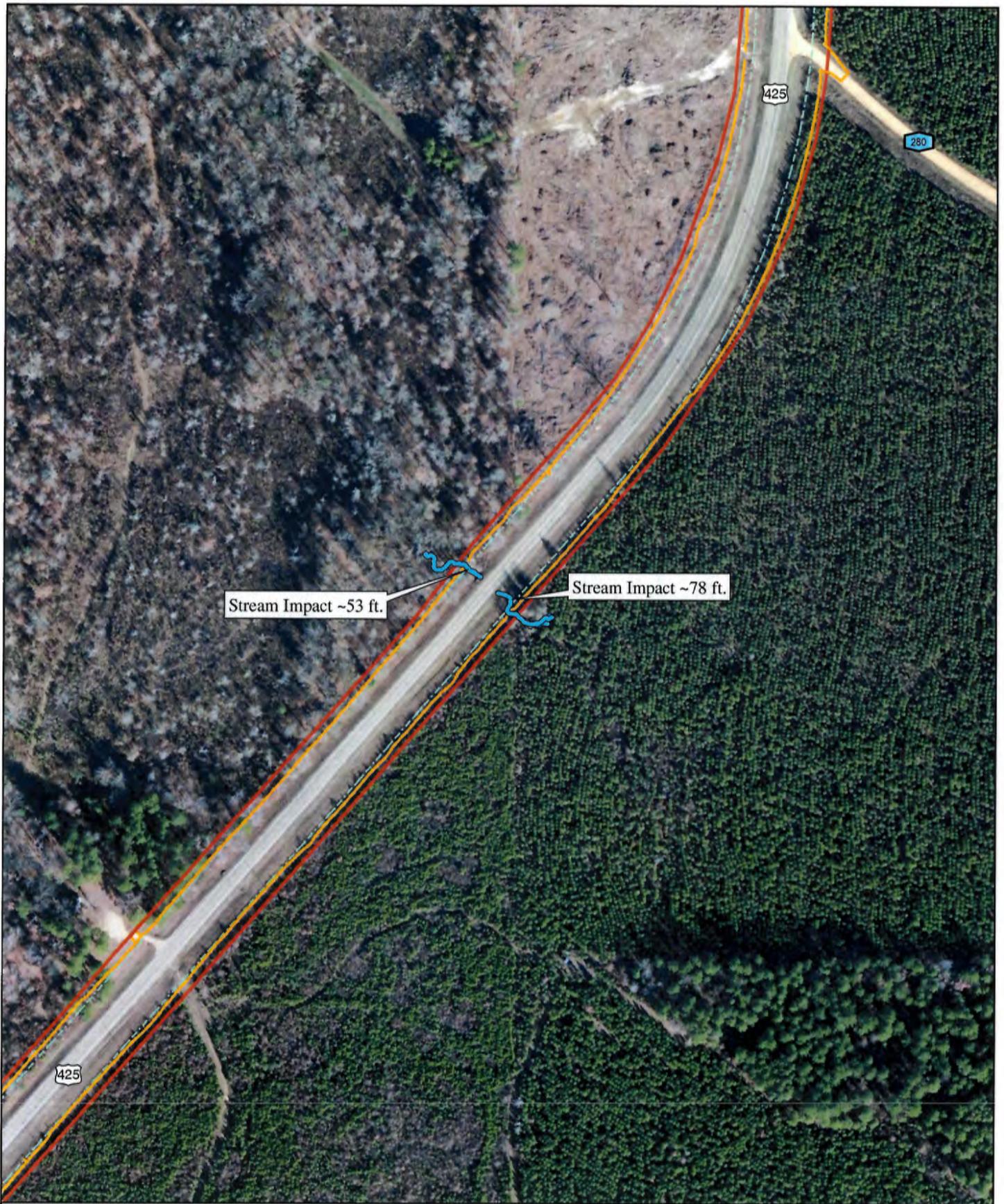
-  Sample Point
-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



N
 0 150 300
 Feet
 Job CA0201
 AHTD Environmental GIS - Dudley
 May 26, 2017

Figure B

-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



N
 0 150 300
 Feet
 Job CA0201
 AHTD Environmental GIS - Dudley
 May 26, 2017

Figure C

-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way

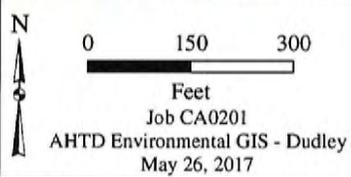
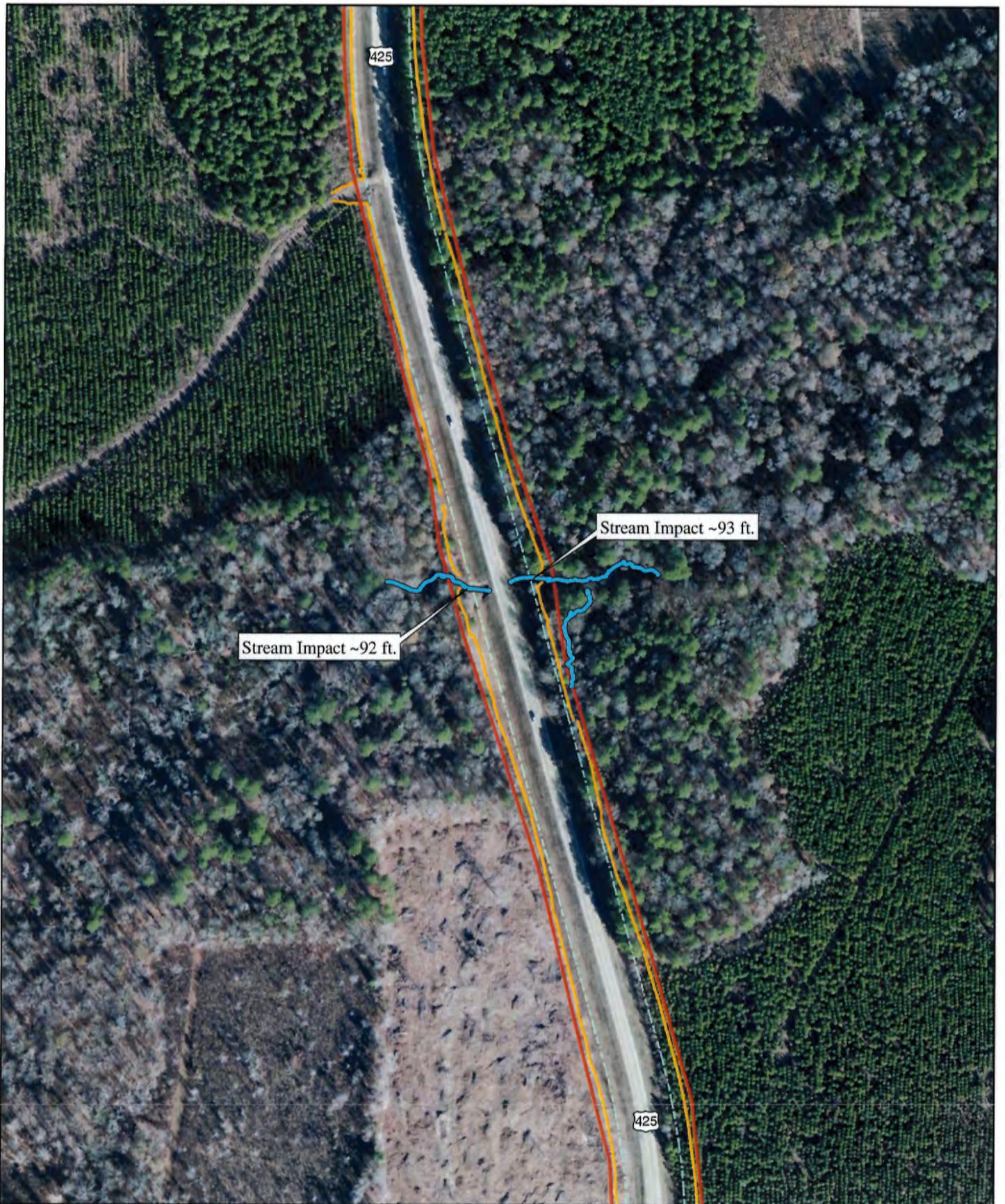
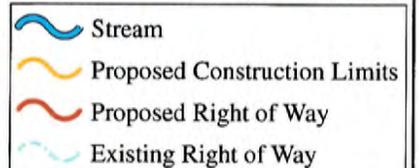


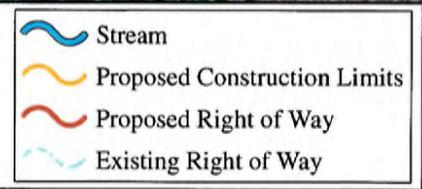
Figure D

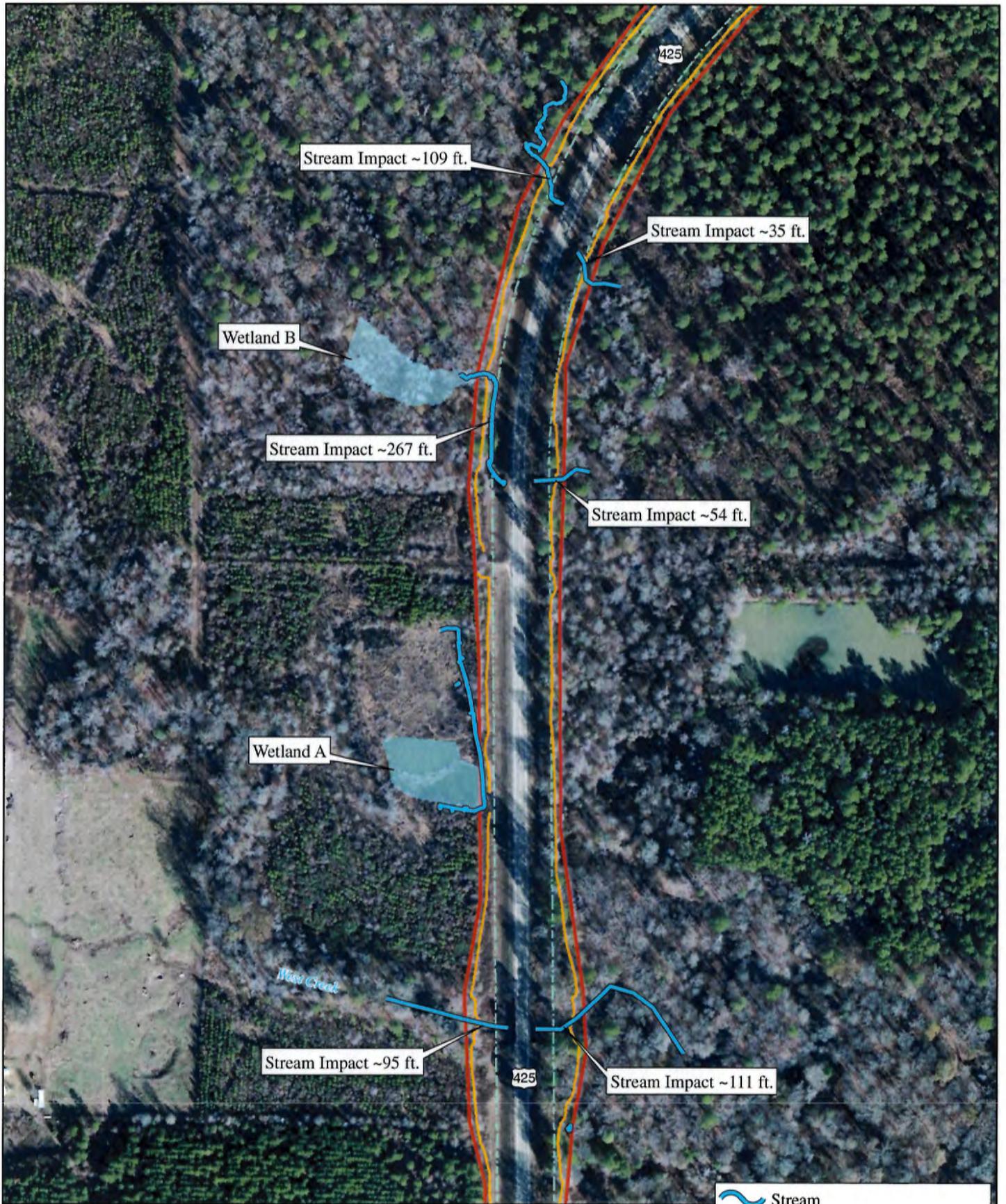




N
 0 150 300
 Feet
 Job CA0201
 AHTD Environmental GIS - Dudley
 May 26, 2017

Figure E





N
 0 150 300
 Feet
 Job CA0201
 AHTD Environmental GIS - Dudley
 May 26, 2017

Figure F

-  Stream
-  Wetland
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



Figure G

0 150 300
Feet
Job CA0201
AHTD Environmental GIS - Dudley
May 26, 2017

Sheet 9 of 15

-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



Stream Impact ~82 ft.

Stream Impact ~78 ft.



0 150 300
Feet

Job CA0201
AHTD Environmental GIS - Dudley
May 26, 2017

Figure H

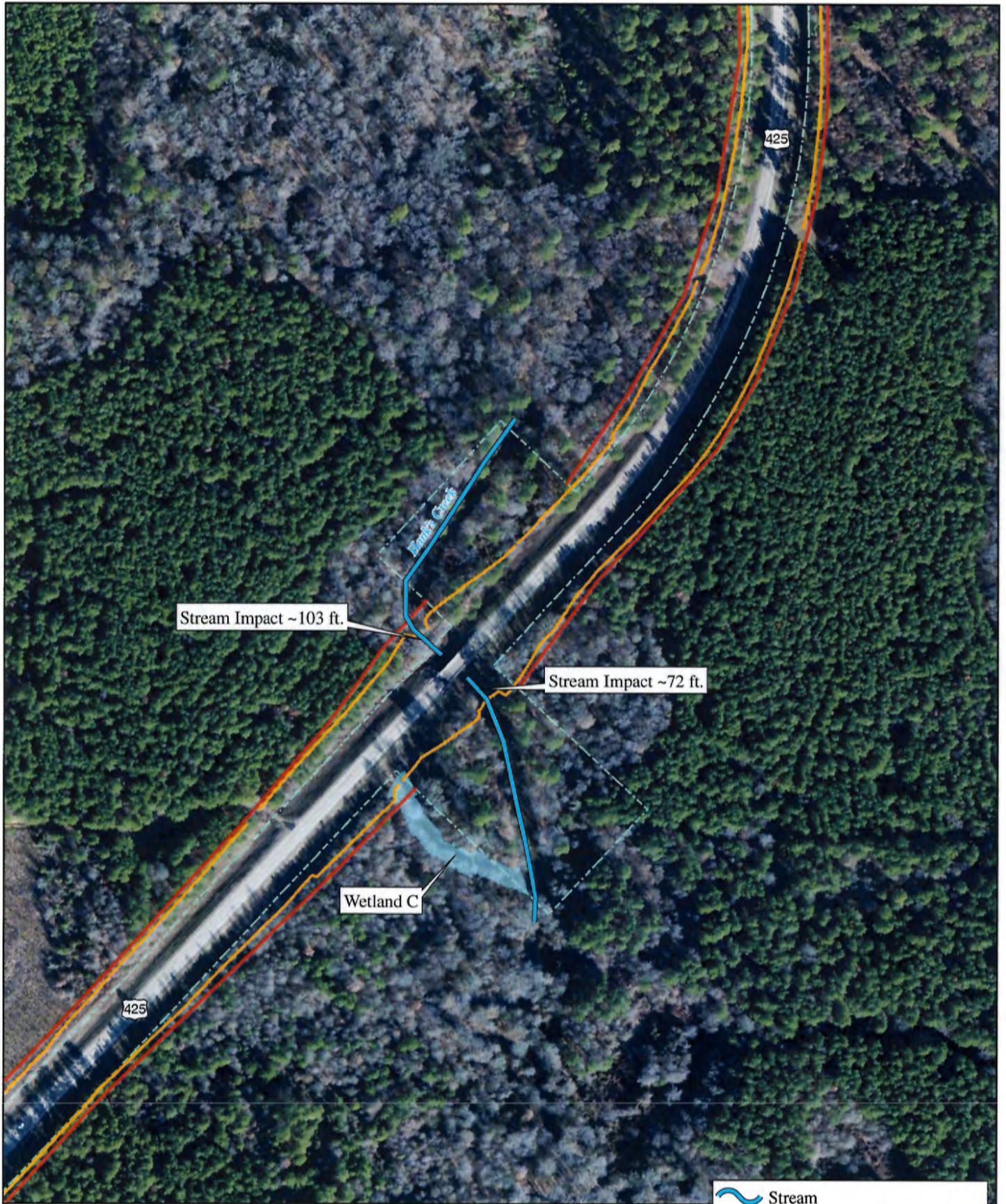
-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



N
 0 150 300
 Feet
 Job CA0201
 AHTD Environmental GIS - Dudley
 May 26, 2017

Figure I

-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



Stream Impact ~103 ft.

Stream Impact ~72 ft.

Wetland C

425

425

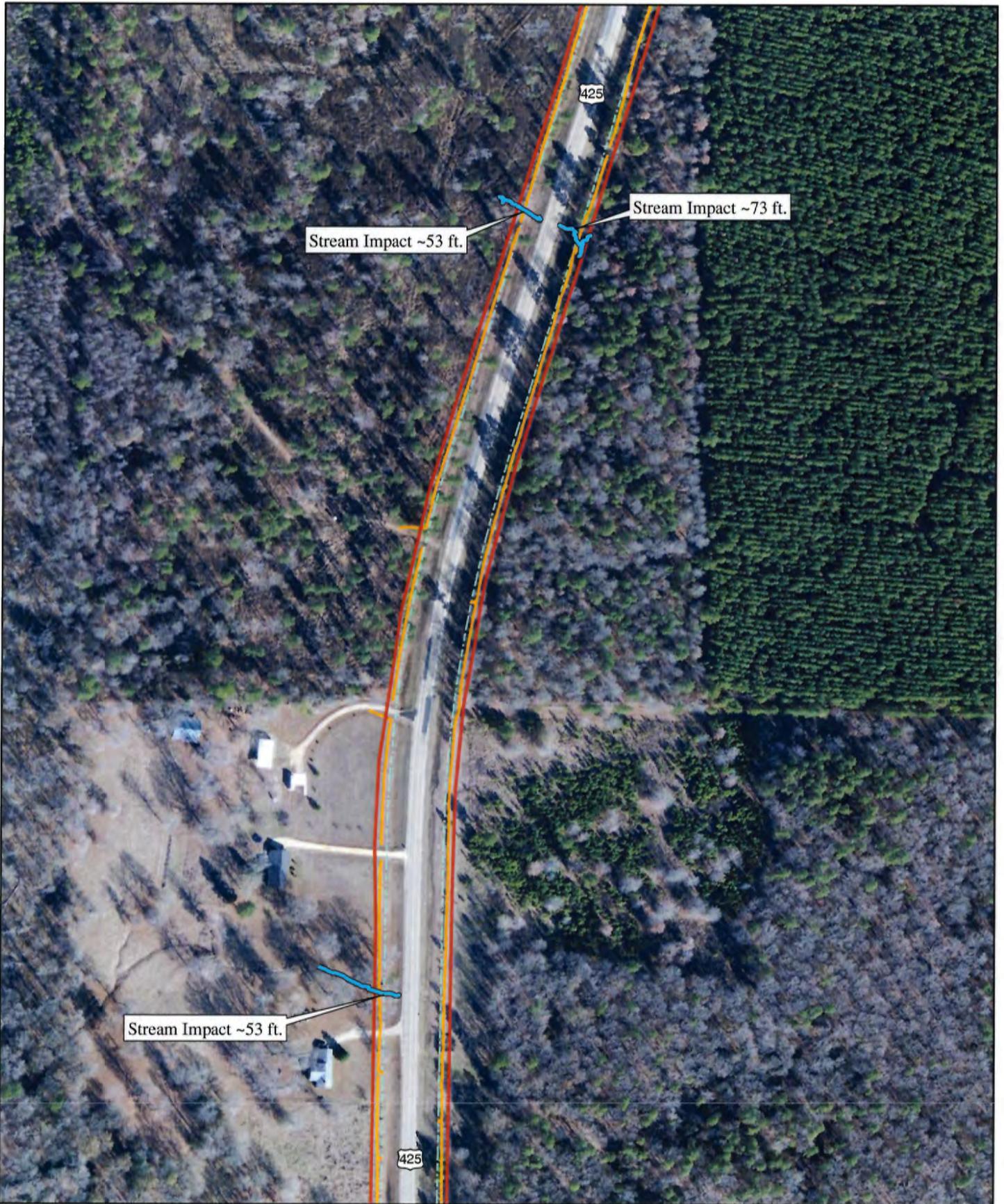
-  Stream
-  Wetland
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



0 150 300
Feet

Job CA0201
AHTD Environmental GIS - Dudley
May 26, 2017

Figure J



N

0 150 300

Feet

Job CA0201

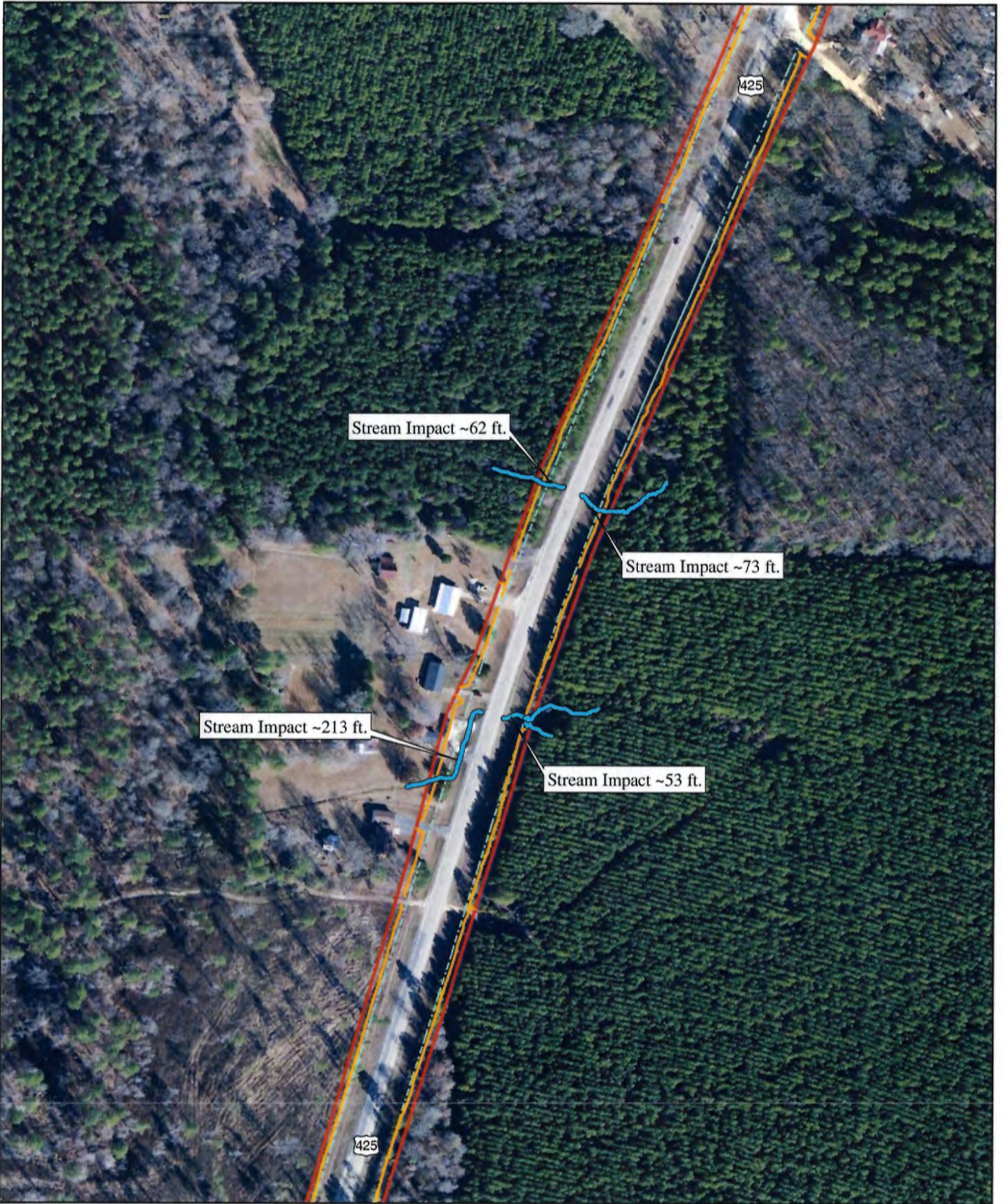
AHTD Environmental GIS - Dudley

May 26, 2017

Figure K

Sheet 13 of 15

-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way



N
 0 150 300
 Feet
 Job CA0201
 AHTD Environmental GIS - Dudley
 May 26, 2017

Figure L

-  Stream
-  Proposed Construction Limits
-  Proposed Right of Way
-  Existing Right of Way

**Determination of Wetland Credits
Working Draft, Subject to Change
Last Revised, October 7, 2010**

4.0 TABLES AND WORKSHEETS

REQUIRED WETLAND MITIGATION CREDIT TABLE

FACTORS	OPTIONS					
Lost Type	Type C 0.2		Type B 2.0		Type A 3.0	
Priority Category	Tertiary 0.5		Secondary 1.5		Primary 2.0	
Existing Condition	Very Impaired 0.1	Impaired 1.0		Partially Impaired 2.0	Fully Functional 2.5	
Duration	0 to 1 year 0.2	1 to 3 years 0.5	3 to 5 years 1.0	5 to 10 years 1.5	Over 10 years 2.0	
Dominant Impact	Shade 0.2	Clear 1.0	Drain 2.0	Dredge 2.5	Impound/ Flood 2.5	Fill 3.0
Cumulative Impact	< 0.25 Acre 0.1	0.25-0.99 Acres 0.2	1.0-2.99 Acres 0.5	3.0-9.99 Acres 1.0	≥10.0 Acres 2.0	

Note: The cumulative impact factor for the overall project should be included in the sum of factors for each impacted area on the Required Wetland Mitigation Credit Worksheet.

REQUIRED WETLAND MITIGATION CREDIT WORKSHEET

Factor	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Lost Type	3.0	0.2	3.0	3.0		
Priority Category	0.5	0.5	0.5	0.5		
Existing Condition	2.5	0.1	2.5	2.5		
Duration	2.0	1.0	2.0	2.0		
Dominant Impact	3.0	1.0	1.0	3.0		
Cumulative Impact	0.1	0.1	0.1	0.1		
Sum of Factors	R ₁ = 11.1	R ₂ = 2.9	R ₃ = 9.1	R ₄ = 11.1	R ₅ =	R ₆ =
Impacted Area	A ₁ = 0.11	A ₂ = 0.03	A ₃ = 0.01	A ₄ = 0.05	A ₅ =	A ₆ =
R x AA=	1.2	0.1	0.1	0.6		

Required Wetland Mitigation Credits = $\Sigma (R \times A) =$ 2.0



MAR 16 2017

Colonel Robert G. Dixon
District Commander
U.S. Army Corps of Engineers
P.O. Box 867
Little Rock, Arkansas 72203-0867

RE: Public Notice: Re-issuance of Nationwide Permits

Dear Colonel Dixon:

The Arkansas Department of Environmental Quality (ADEQ) has completed its review of the above referenced public notice for re-issuance of the U.S. Army Corps of Engineers Nationwide Permits (NWP) for the State of Arkansas.

ADEQ has determined that there is a reasonable assurance that the activities covered under most these NWPs will be conducted in a manner which, according to the Arkansas Pollution Control and Ecology Commission's Regulation No.2, will not physically alter a significant segment of the waterbody and will not violate the water quality criteria.

Therefore, pursuant to §401(a)(1) of the Clean Water Act, the ADEQ hereby issues water quality certification for all NWPs with the exception of NWPs 14, 29, and 43, contingent upon the following conditions:

- 1) An individual water quality certification request must be submitted to ADEQ for Activities which may impact Extraordinary Resource Waters, Ecologically Sensitive Waterbodies, and Natural Scenic Waterways and their tributaries (within 1 mile) as defined in Regulation No. 2, Water Quality Standards.
- 2) The applicant shall contact ADEQ to determine if a Short Term Activity Authorization (STAA) is needed when performing work in the wetted area of any waterbody. More information can be obtained by contacting the Water Division Planning Section of ADEQ at 501-682-0946.
- 3) The applicant shall implement all practicable best management practices (BMPs) to avoid excessive impacts of sedimentation and turbidity to the surface waters.
- 4) The applicant will take all reasonable measures to prevent the spillage or leakage of any chemicals, oil, grease, gasoline, diesel, or other fuels. In the unlikely event such spillage or leakage occurs, the applicant must contact ADEQ immediately.
- 5) The applicant shall limit construction to low flow periods as much as possible to minimize adverse effects on water quality and aquatic life.

JOHN BEL EDWARDS
GOVERNOR



CHUCK CARR BROWN, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

APR 17 2017

Mr. Martin S. Mayer
Chief, Regulatory Branch
Department of the Army
Corps of Engineers, New Orleans District
P. O. Box 60267
New Orleans, Louisiana 70160-0267
Attention: Brenda A. Archer

AI No.: 149056
WQC 160629-02
Activity No.: CER20160001

RE: Water Quality Certification WQC 160629-02 *CORRECTED*
2017 Nationwide Permit Reissuance
State of Louisiana

Dear Mr. Mayer:

The Louisiana Department of Environmental Quality, Office of Environmental Services (LDEQ), provides with this correspondence clarification of the water quality certification approval and reissuance of the U.S. Army Corps of Engineers (Corps) Nationwide Permits (NWP), general conditions, and definitions with some modification in the *Federal Register* (Vol. 82 No. 4) as published January 6, 2017. The 2017 NWPs are in effect as of March 19, 2017. The publication of the final NWPs in the *Federal Register* serves as the Corps application for water quality certification (WQC) under Section 401 of the Clean Water Act for those NWPs that will result in a discharge in the State of Louisiana.

LDEQ has reviewed the Corps' Reissuance of Nationwide Permits, as published in the referenced *Federal Register* and issues WQC 160629-02 with the attached Nationwide Permit (NWP) Regional Conditions, February 2017 for the following NWPs:

NWP 3	NWP 18	NWP 33	NWP 46
NWP 4	NWP 19	NWP 34	NWP 48
NWP 5	NWP 20	NWP 36	NWP 49
NWP 6	NWP 21	NWP 37	NWP 50
NWP 7	NWP 22	NWP 38	NWP 51
NWP 12	NWP 23	NWP 40	NWP 52
NWP 13	NWP 25	NWP 41	NWP 53
NWP 14	NWP 27	NWP 42	NWP 54
NWP 15	NWP 30	NWP 43	
NWP 16	NWP 31	NWP 44	
NWP 17	NWP 32	NWP 45	

WQC 160629-02 *CORRECTED*
AI 149056
2017 Nationwide Permit Reissuance
State of Louisiana
Page 2

LDEQ denies 401 Water Quality Certification to the reissuance of NWP 29 except those associated with construction or expansion of a single residence pursuant to the attached State of Louisiana Nationwide Permit Regional Conditions.

LDEQ has denied 401 Water Quality Certification to the reissuance of NWP 39.

Based on the information provided in the application, it is the opinion of LDEQ that the Nationwide Permit NWP 39 could have potential adverse effects on water quality or fail to comply with State water quality standards as provided for in LAC 33:IX, Chapter 11, and should be considered for certification on a case-by-case basis. Therefore, certification for this NWP is denied.

Should you have any questions concerning any part of this certification, please contact Elizabeth Hill at (225) 219-3225 or by email at elizabeth.hill@la.gov. Please reference Agency Interest (AI) number 149056 and Water Quality Certification 160629-02 on all future correspondence to this Department to ensure all correspondence regarding this subject is properly filed into the Department's Electronic Document Management System.

Sincerely,



Elliott B. Vega
Assistant Secretary

Attachment

c: IO-W

NWP 16. *Return Water from Upland Contained Disposal Areas:*
No additional regional conditions are proposed.

NWP 17. *Hydropower Projects:*
No additional regional conditions are in proposed.

NWP 18. *Minor Discharges:*

This NWP, via disavowal of Coastal Zone certification by the Louisiana Department of Natural Resources, is considered **denied** without prejudice within the Louisiana Coastal Zone. Individual requests for approval under this NWP will **be conditioned to require the applicant to obtain a Louisiana Department of Natural Resources determination/certification before the NWP is valid.**

NWP 19. *Minor Dredging:*
No additional regional conditions are proposed.

NWP 20. *Response Operations for Oil and Hazardous Substances:*

This NWP, via disavowal of Coastal Zone certification by the Louisiana Department of Natural Resources, is considered **denied** without prejudice within the Louisiana Coastal Zone. Individual requests for approval under this NWP will **be conditioned to require the applicant to obtain a Louisiana Department of Natural Resources determination/certification before the NWP is valid.**

NWP 21. *Surface Coal Mining Activities:*
No additional regional conditions are proposed.

NWP 22. *Removal of Vessels:*

This NWP, via disavowal of Coastal Zone certification by the Louisiana Department of Natural Resources, is considered **denied** without prejudice within the Louisiana Coastal Zone. Individual requests for approval under this NWP will **be conditioned to require the applicant to obtain a Louisiana Department of Natural Resources determination/certification before the NWP is valid.**

NWP 23. *Approved Categorical Exclusions:*

This NWP, via disavowal of Coastal Zone certification by the Louisiana Department of Natural Resources, is considered **denied** without prejudice within the Louisiana Coastal Zone. Individual requests for approval under this NWP will **be conditioned to require the applicant to obtain a Louisiana Department of Natural Resources determination/certification before the NWP is valid.**

NWP 24. *Indian Tribe or State Administered Section 404 Programs:*



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
LITTLE ROCK DISTRICT, CORPS OF ENGINEERS
POST OFFICE BOX 867
LITTLE ROCK, ARKANSAS 72203-0867
www.swl.usace.army.mil/

July 19, 2018

Regulatory Division

NATIONWIDE PERMIT NO. MVK 2017-00565

Mr. John Fleming
Division Head, Environmental Division
Arkansas Department of Transportation
PO Box 2261
Little Rock, Arkansas 72203-2261

Dear Mr. Fleming:

Please refer to your recent request concerning Department of the Army permit requirements pursuant to Section 404 of the Clean Water Act. You requested authorization for the placement of dredged and fill material in waters of the United States associated with widening 5.4 miles of U.S. Highway 82 from two lanes to four lanes. Proposed improvements include four 12-foot-wide travel lanes, 8-foot-wide shoulders and an 11-foot-wide painted median. The project will be constructed on existing alignment and will cross seventeen streams impacting approximately 2,167 linear feet. Three of the streams are perennial and fourteen are ephemeral. Impacts will primarily be the extension of existing culverts and aligning the channels with the culverts. Stream impacts at each crossing will be less than 300 linear feet and 0.1 acres except for Stream 9 where approximately 684 linear feet will be relocated to the toe of the embankment slope. Stream 9 is an ephemeral stream which functions as a roadside channel. Relocating the stream will not result in any loss of stream functions or services. The project will impact eleven wetland areas totaling 1.1 acres that are located adjacent to the stream crossings. Approximately 30 acres of additional right-of-way will be required for the project. The project will impact the Levi Wilcoxson Demonstration Forest which is eligible for the National Register of Historic Places. There are no threatened or endangered species impacts.

The project is located immediately south of Hamburg in sections 3, 10 and 15, T. 18 S., R. 7 W., and in sections 26, 27 and 34, T. 17 S., R. 7 W., Ashley County, Arkansas. A vicinity map, project location map, wetland and stream impact maps, and a wetland mitigation worksheet are enclosed.

The proposed activities are authorized by 17 Department of the Army Nationwide Permits (NWP's) **No. 14** (copy enclosed), provided that the following **Special Conditions** and General Conditions therein are met. For your convenience, we have highlighted the General Conditions

of the NWP that are the most pertinent to your project. You should become familiar with the conditions and maintain a copy of the permit at the worksite for ready reference. If changes are proposed in the design or location of the project, you should submit revised plans to this office for approval before construction of the change begins.

Special Conditions:

- 1. ArDOT agrees to mitigate for the adverse impacts to 1.1 acres of wetlands with 9.98 wetland credits at an approved mitigation bank before construction of the project begins. ArDOT will provide documentation of the mitigation bank transaction to the U.S. Army Corps of Engineers Little Rock District Transportation Program Manager.**
- 2. ArDOT agrees to comply with the mitigation report titled, FULFILLMENT OF MEMORANDUM OF AGREEMENT BETWEEN THE ARKANSAS STATE HISTORIC PRESERVATION OFFICER AND THE ARKANSAS DEPARTMENT OF TRANSPORTATION FOR IMPACTS TO THE LEVI WILCOXON DEMONSTRATION FOREST (AS0034) ARDOT JOB NUMBER CA0202 HWY. 425 – HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS, and dated January 2018.**

Please pay particular attention to General Condition No. 12 which stipulates that appropriate erosion and siltation controls be used during construction and all exposed soil be permanently stabilized. Erosion control measures must be implemented before, during and after construction.

Also, in order to fully comply with the conditions of the NWP, you must submit the enclosed compliance certification within 30 days of completion of the project. This is required pursuant to General Condition No. 30 of the permit.

For your information, we have enclosed a copy of the Arkansas Department of Environmental Quality (ADEQ) Section 401 Water Quality Certification conditions, which are conditions of your permit. If you have any questions concerning compliance with the conditions of the 401 certification, you should contact Ms. Melanie Treat at the ADEQ, Water Division, 5301 Northshore Drive, North Little Rock, Arkansas 72118, telephone (501) 682-0040.

The NWP determination will be valid until March 18, 2022. If NWP No. 14 is modified, suspended, or revoked during this period, your project may not be authorized unless you have begun or are under contract to begin the project. If work has started or the work is under contract, you would then have twelve (12) months to complete the work.

Your cooperation in the Regulatory Program is appreciated. If you have any additional questions about this permit or any of its provisions, please contact Mr. Johnny McLean at (501)

324-5295 and refer to Permit No. **MVK 2017-00565, U.S. Highway 82 widening south of Hamburg (ArDOT Project No. CA0202).**

Sincerely,



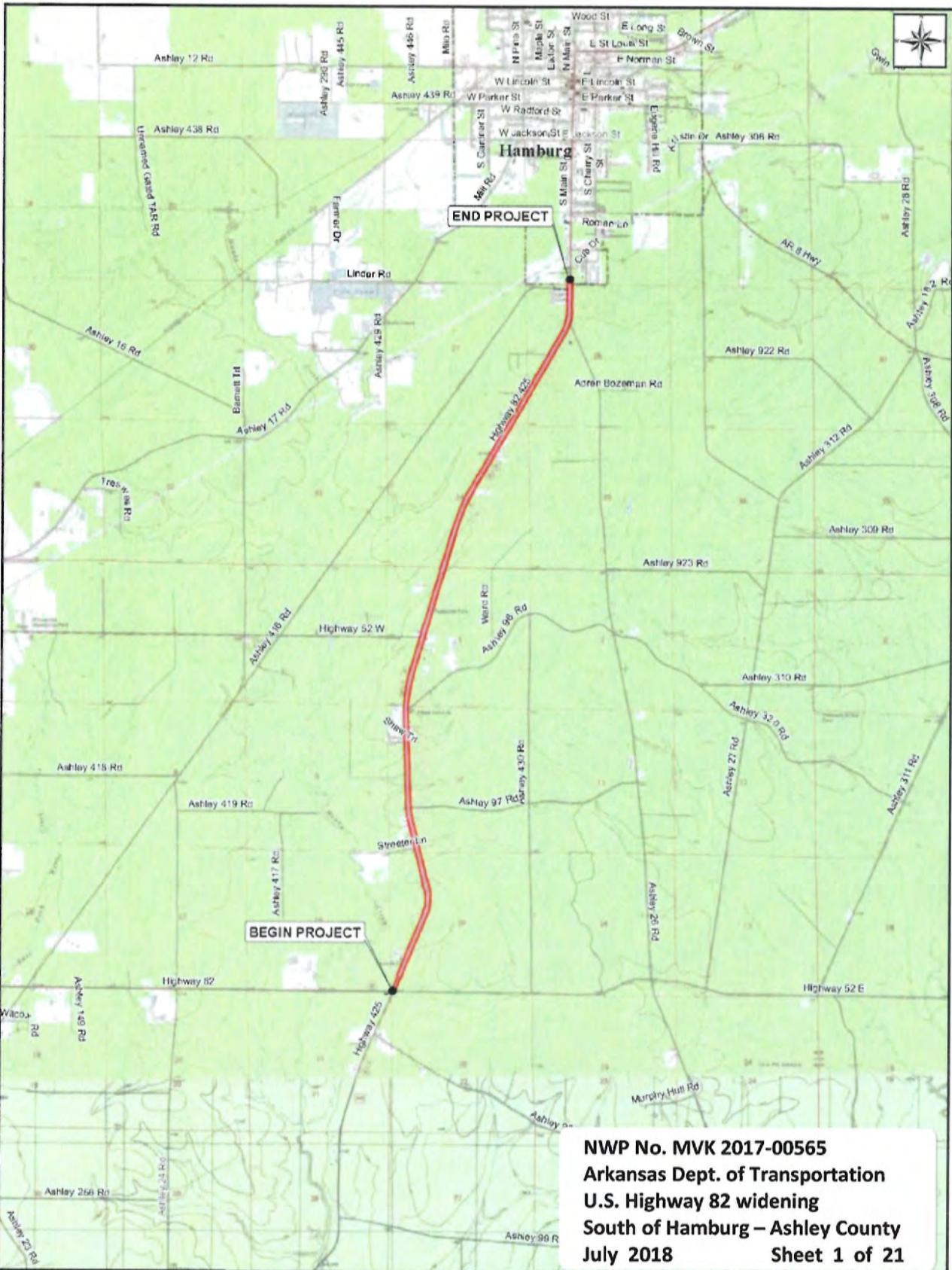
Sarah Chitwood
Chief, Regulatory Evaluation Branch

Copy Furnished:

Vicksburg District Regulatory, w/cy dwgs

Ms. Melanie Treat, Arkansas Department of Environmental Quality, w/cy dwgs

Mr. Lindsey Lewis, U.S. Fish & Wildlife Service, w/cy dwgs



NWP No. MVK 2017-00565
Arkansas Dept. of Transportation
U.S. Highway 82 widening
South of Hamburg – Ashley County
July 2018 **Sheet 1 of 21**



Ashley County

 Project Location
 City Limits

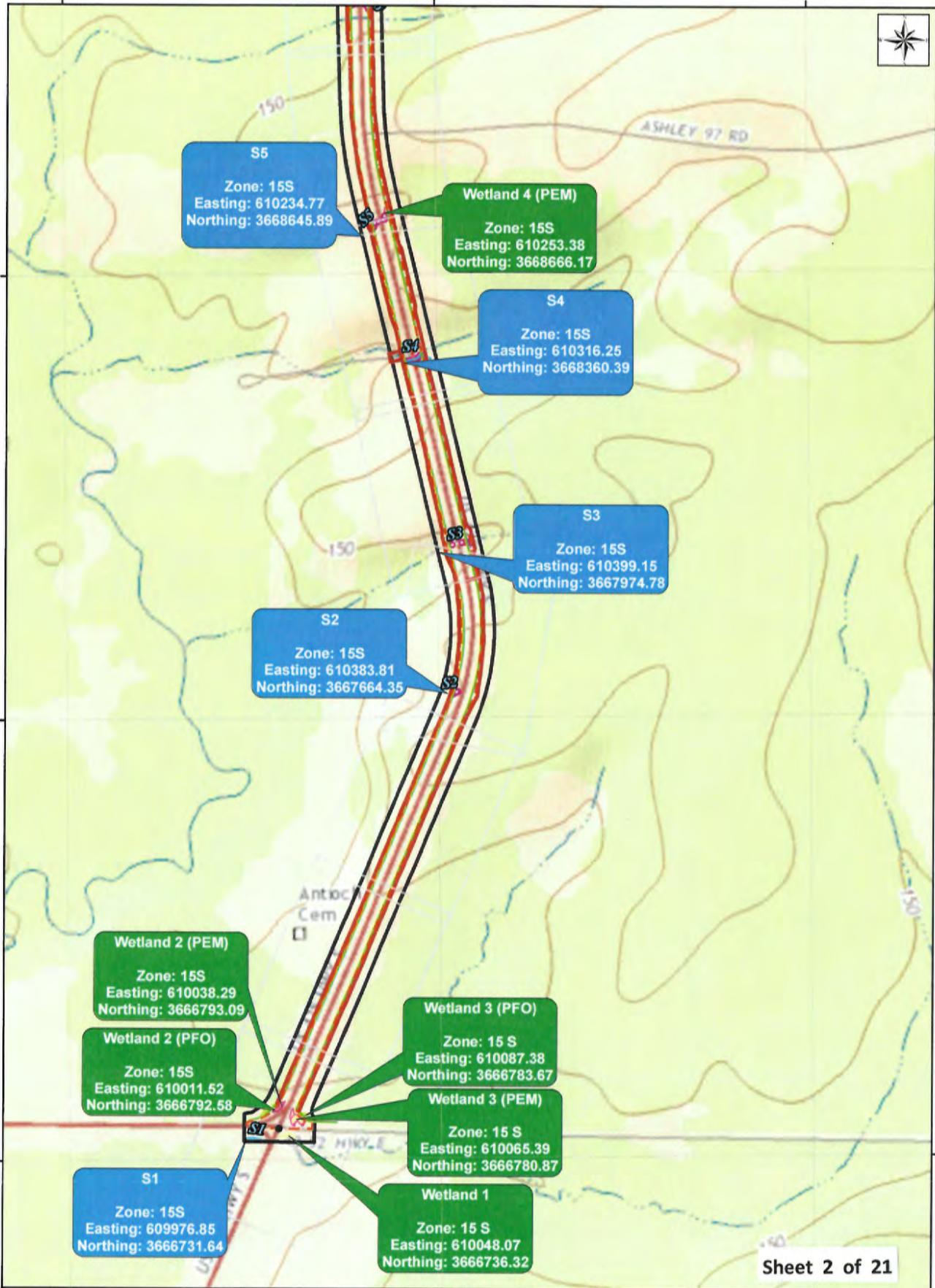
Project Location Map



**ARKANSAS STATE HIGHWAY AND
 TRANSPORTATION DEPARTMENT**

**CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS**

JOB CA0202

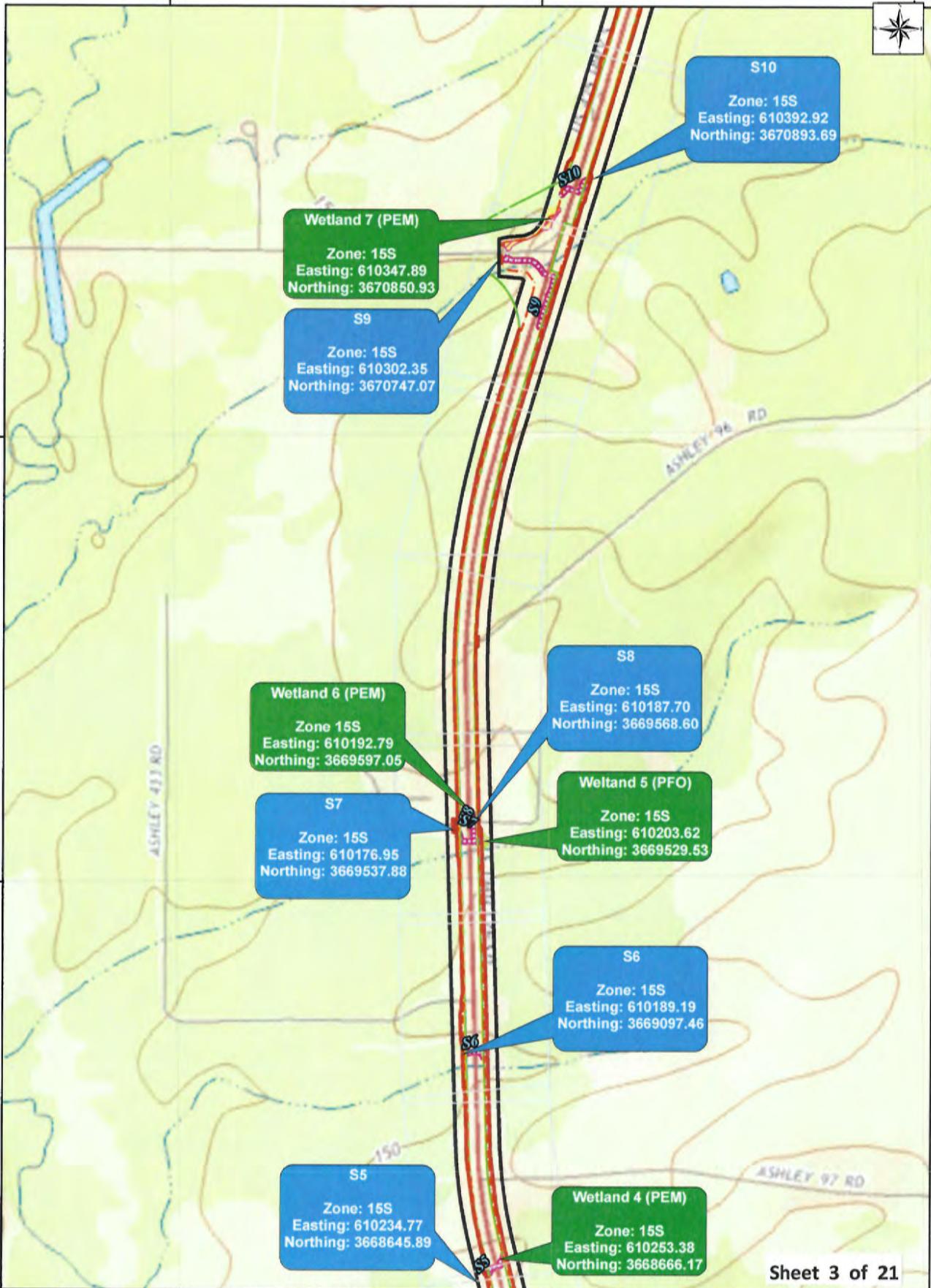


<p>91°49'30"W 91°49'00"W 91°48'30"W</p>		<p>Jurisdictional Waters Map</p>		<p>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p>CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p>JOB CA0202</p>
<p>Proposed ROW Proposed Construction Limits Existing ROW</p> <p>Wetlands in Study Limits</p> <p>PEM PFO Wetland Impact</p>		<p>Ephemeral Stream Intermittent Stream Perennial Stream Watercourse Impact Study Limits Sheet Boundaries</p>		
<p>0 187.5 375 750 Feet</p> <p>1 inch = 600 feet</p>		<p>Sheet 1 of 4 Date: 10/19/2016</p>		

91°49'30"W

91°49'0"W

91°48'30"W



Wetland 7 (PEM)
 Zone: 15S
 Easting: 610347.89
 Northing: 3670850.93

S9
 Zone: 15S
 Easting: 610302.35
 Northing: 3670747.07

S10
 Zone: 15S
 Easting: 610392.92
 Northing: 3670893.69

Wetland 6 (PEM)
 Zone 15S
 Easting: 610192.79
 Northing: 3669597.05

S7
 Zone: 15S
 Easting: 610176.95
 Northing: 3669537.88

S8
 Zone: 15S
 Easting: 610187.70
 Northing: 3669568.60

Wetland 5 (PFO)
 Zone: 15S
 Easting: 610203.62
 Northing: 3669529.53

S6
 Zone: 15S
 Easting: 610189.19
 Northing: 3669097.46

S5
 Zone: 15S
 Easting: 610234.77
 Northing: 3668645.89

Wetland 4 (PEM)
 Zone: 15S
 Easting: 610253.38
 Northing: 3668666.17

Sheet 3 of 21

Proposed ROW	Watercourses in Study Limits
Proposed Construction Limits	Ephemeral Stream
Existing ROW	Intermittent Stream
Wetlands in Study Limits	Perennial Stream
PEM	Watercourse Impact
PFO	Study Limits
Wetland Impact	Sheet Boundaries

Jurisdictional Waters Map

Sheet 2 of 4 Date: 10/19/2016

0 187.5 375 750 Feet

1 inch = 600 feet

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

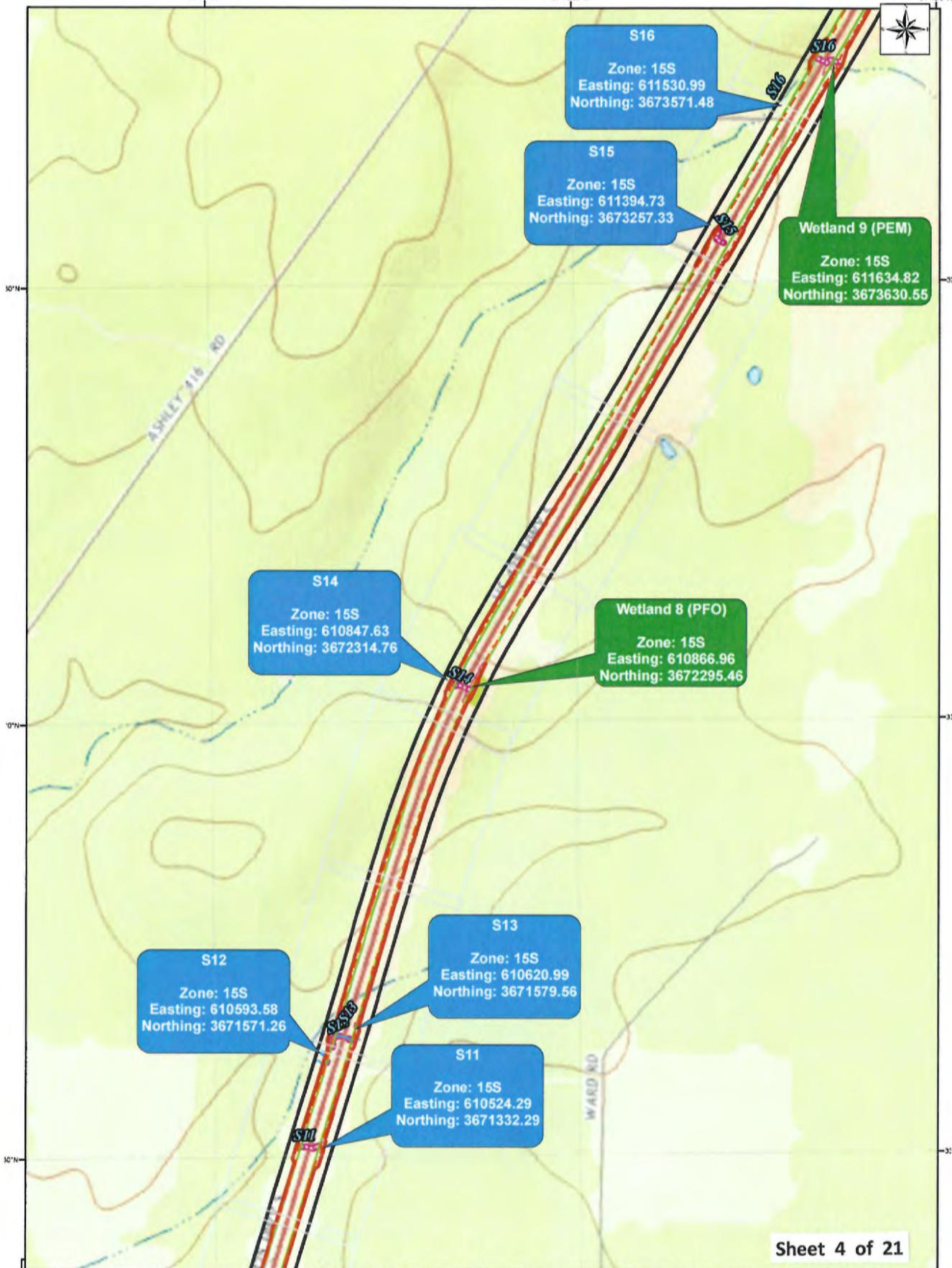
CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS

JOB CA0202

91°49'0"W

91°48'30"W

91°48'0"W



Sheet 4 of 21

Proposed ROW	Ephemeral Stream
Proposed Construction Limits	Intermittent Stream
Existing ROW	Perennial Stream
Wetlands in Study Limits	Watercourse Impact
PEM	Study Limits
PFO	Sheet Boundaries
Wetland Impact	

Jurisdictional Waters Map	
Sheet 3 of 4	Date: 10/19/2016
<p>0 187.5 375 750 Feet</p> <p>1 inch = 600 feet</p>	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS

JOB CA0202



30°N

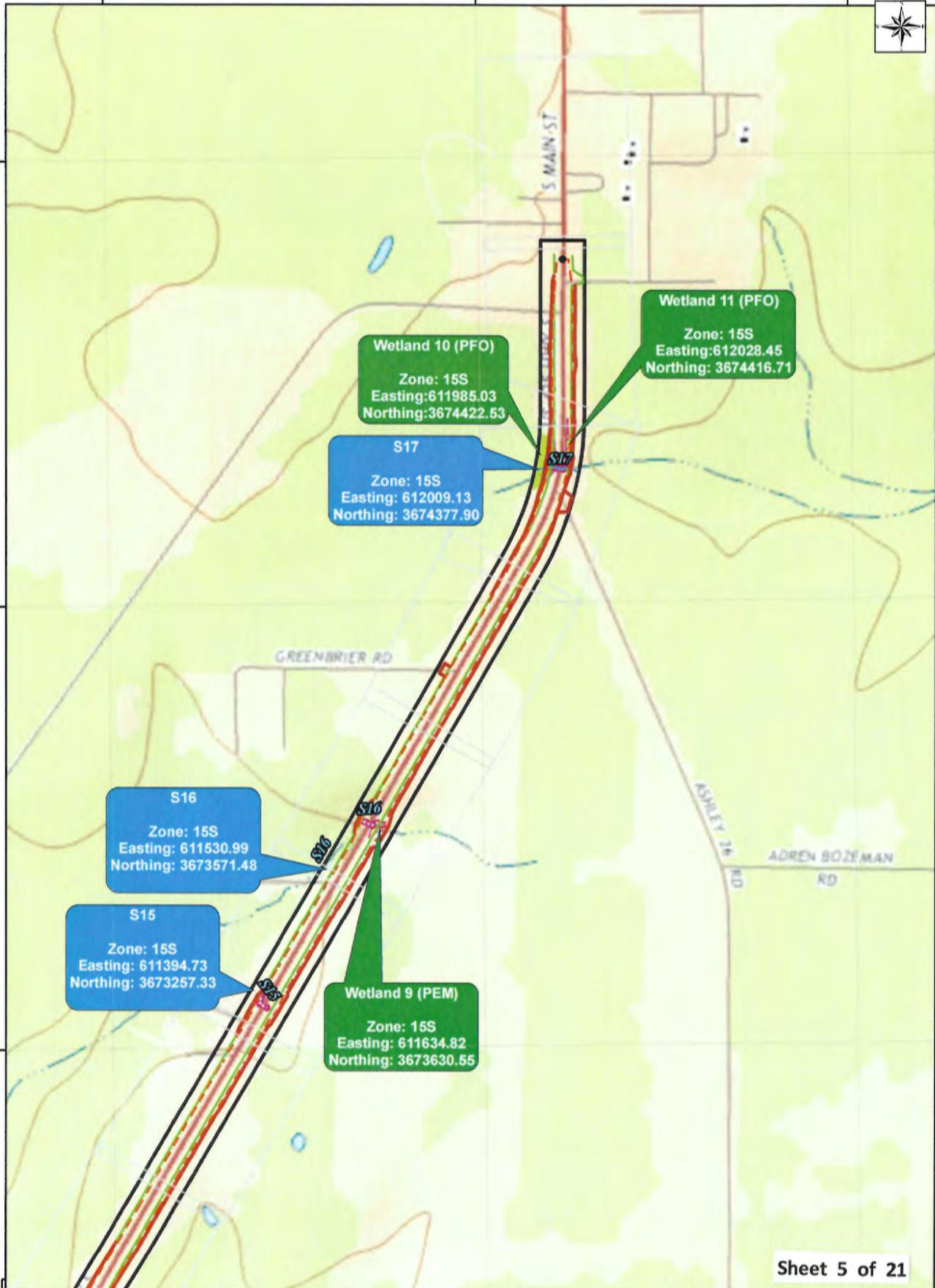
30°N

30°N

30°N

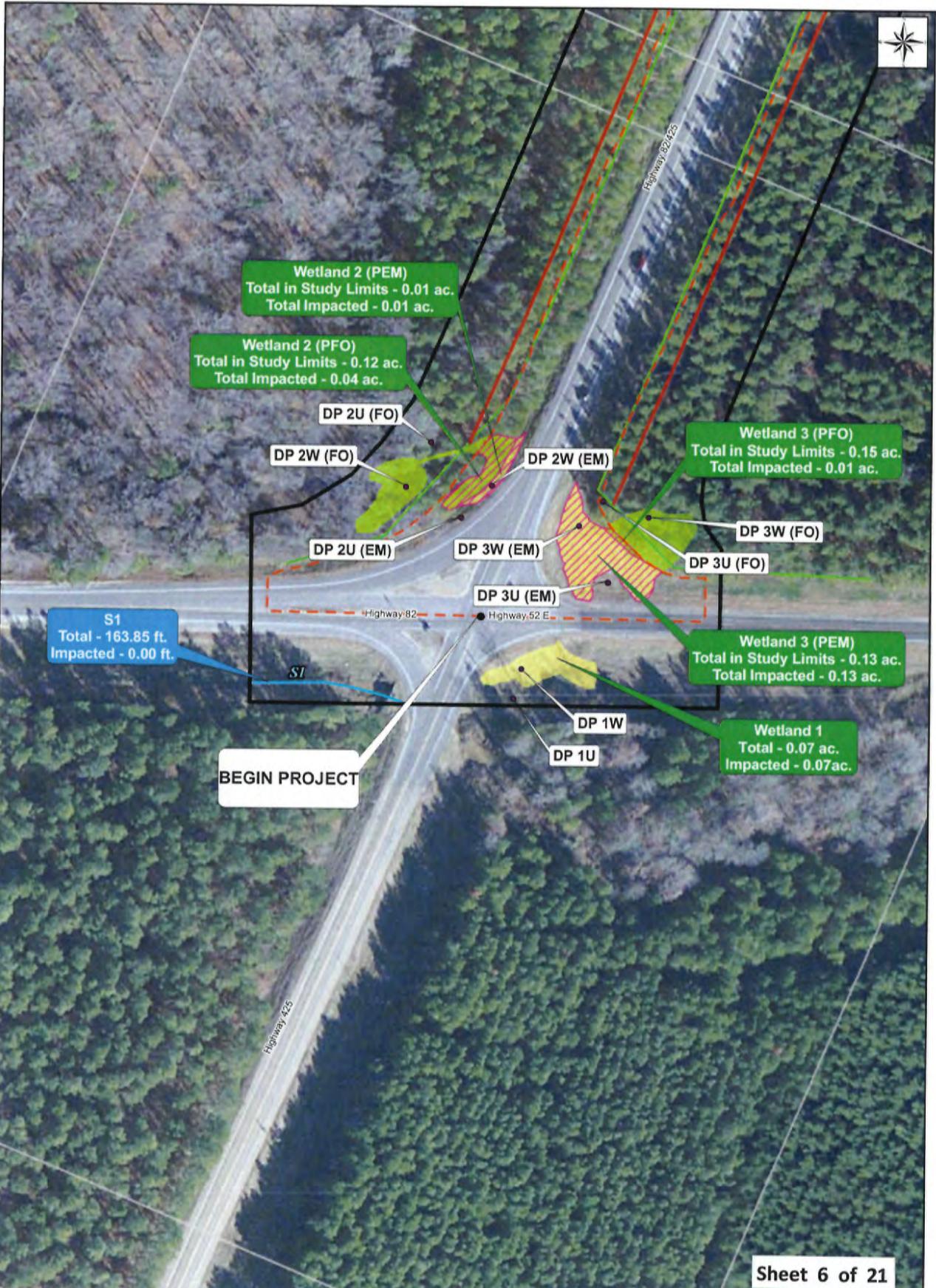
30°N

30°N



Sheet 5 of 21

<ul style="list-style-type: none"> Proposed ROW Proposed Construction Limits Existing ROW 	<p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> Ephemeral Stream Intermittent Stream Perennial Stream Watercourse Impact Study Limits Sheet Boundaries 	<p>Jurisdictional Waters Map</p> <p>Sheet 4 of 4 Date: 10/19/2016</p> <p>0 187.5 375 750 Feet</p> <p>1 inch = 600 feet</p>	<p>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p>CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p>JOB CA0202</p>
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S1
Total - 163.85 ft.
Impacted - 0.00 ft.

Wetland 2 (PEM)
Total in Study Limits - 0.01 ac.
Total Impacted - 0.01 ac.

Wetland 2 (PFO)
Total in Study Limits - 0.12 ac.
Total Impacted - 0.04 ac.

Wetland 3 (PFO)
Total in Study Limits - 0.15 ac.
Total Impacted - 0.01 ac.

Wetland 3 (PEM)
Total in Study Limits - 0.13 ac.
Total Impacted - 0.13 ac.

Wetland 1
Total - 0.07 ac.
Impacted - 0.07 ac.

BEGIN PROJECT

Sheet 6 of 21

<ul style="list-style-type: none"> — Proposed ROW — Proposed Construction Limits — Existing ROW <p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> — Ephemeral Stream — Intermittent Stream — Perennial Stream — Watercourse Impact Study Limits Sheet Boundaries
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Jurisdictional Waters Map	
Sheet 1 of 24	Date: 4/11/2016
<p>1 inch = 90 feet</p>	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
HWY.425 - HAMBURG (WIDENING) (S)
ASHLEY COUNTY, ARKANSAS

JOB CA0202



S2
 Total in Study Limits - 106.20 ft.
 Total Impacted - 48.61 ft.

Sheet 7 of 21

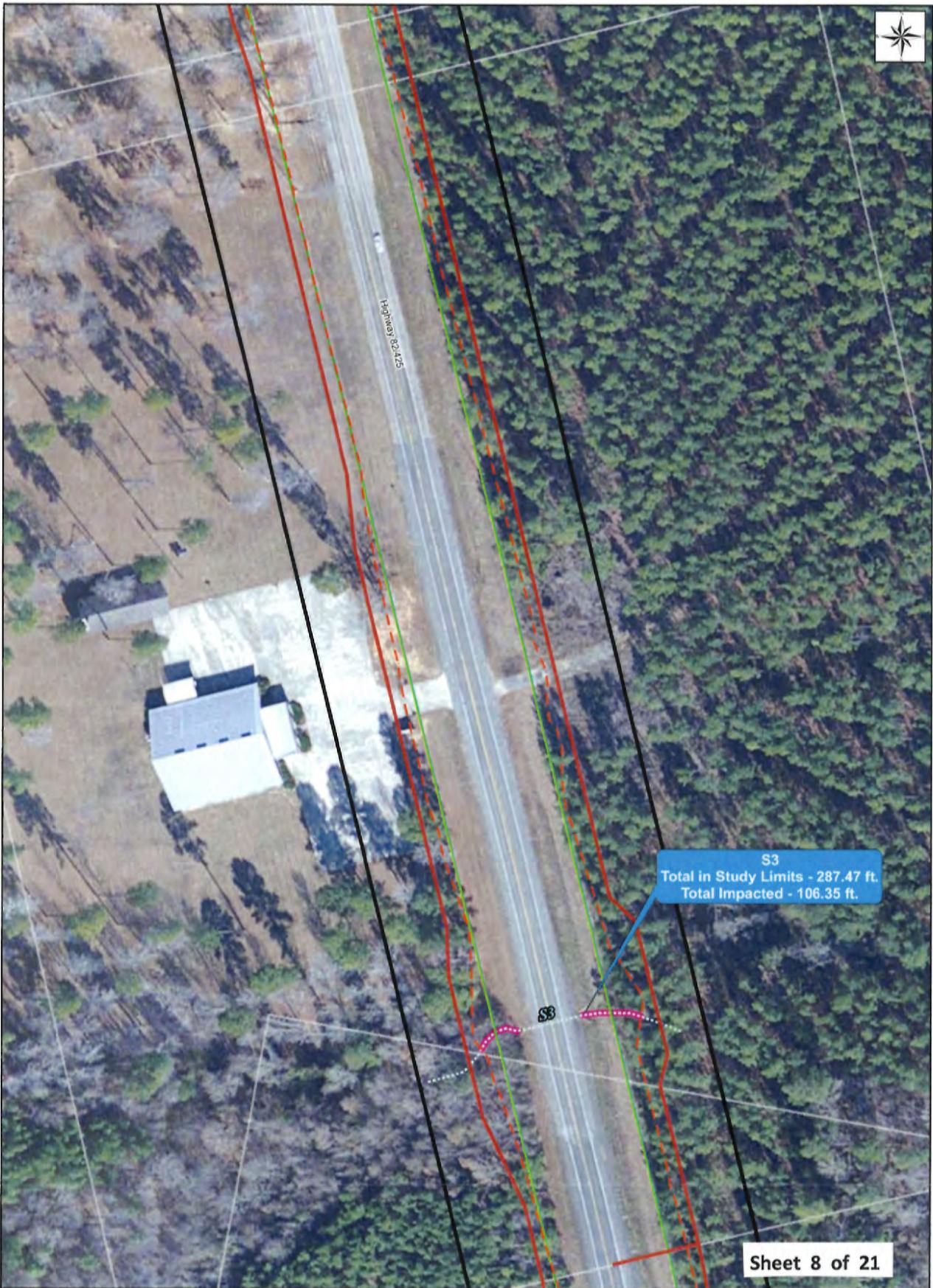
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Jurisdictional Waters Map	
Sheet 4 of 24	Date: 4/11/2016
1 inch = 90 feet	

ARKANSAS STATE HIGHWAY AND
 TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS

JOB CA0202



Sheet 8 of 21

<ul style="list-style-type: none"> — Proposed ROW - - - Proposed Construction Limits — Existing ROW <p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> — Ephemeral Stream - - - Intermittent Stream — Perennial Stream - - - Watercourse Impact Study Limits Sheet Boundaries 	<p style="text-align: center;">Jurisdictional Waters Map</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Sheet 5 of 24</td> <td style="width: 50%;">Date: 4/11/2016</td> </tr> </table> <p style="text-align: center;">0 25 50 100 Feet 1 inch = 90 feet</p>	Sheet 5 of 24	Date: 4/11/2016	<p>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p>CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p style="text-align: center;">JOB CA0202</p>
Sheet 5 of 24	Date: 4/11/2016				



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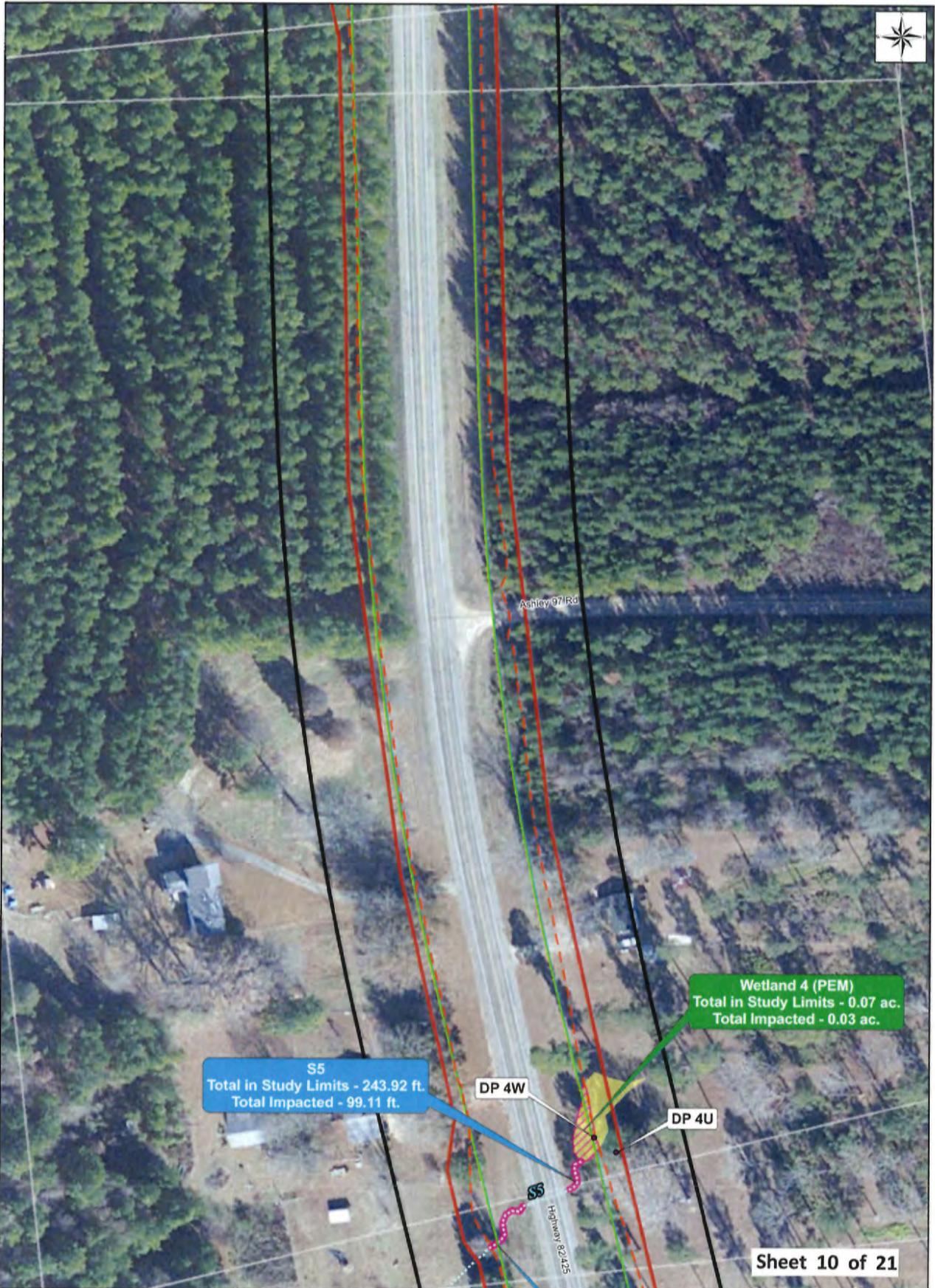
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Sheet 6 of 24	Date: 4/11/2016
 1 inch = 90 feet	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS

JOB CA0202



Sheet 10 of 21

Proposed ROW	Watercourses in Study Limits
Proposed Construction Limits	Ephemeral Stream
Existing ROW	Intermittent Stream
Wetlands in Study Limits	Perennial Stream
PEM	Watercourse Impact
PFO	Study Limits
Wetland Impact	Sheet Boundaries

Jurisdictional Waters Map	
Sheet 7 of 24	Date: 4/11/2016
 1 inch = 90 feet	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS

JOB CA0202



S6
 Total in Study Limits - 427.53 ft.
 Total Impacted - 174.31 ft.

Highway 82/425

Sheet 11 of 21

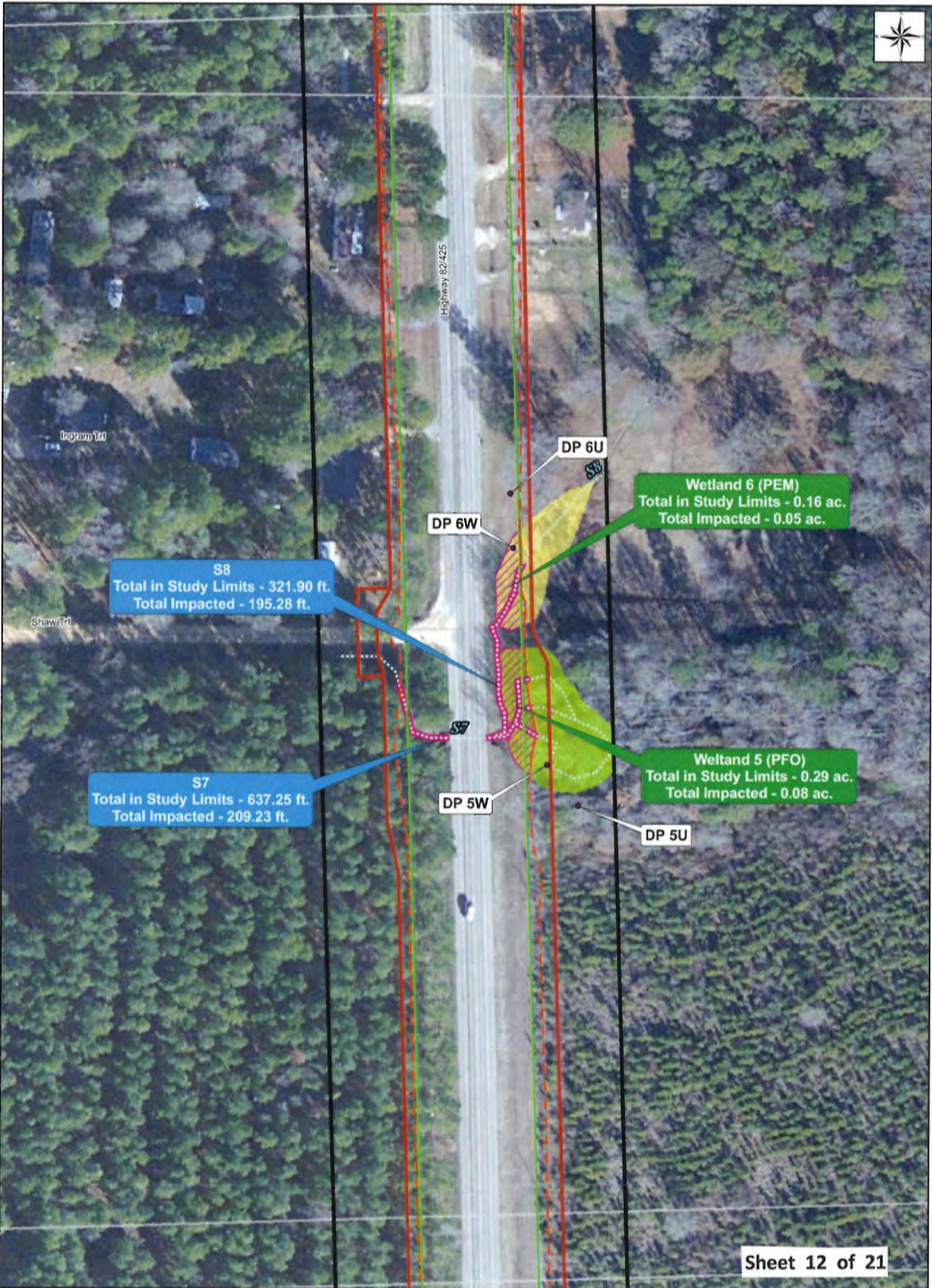
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Jurisdictional Waters Map	
Sheet 8 of 24	Date: 4/11/2016
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

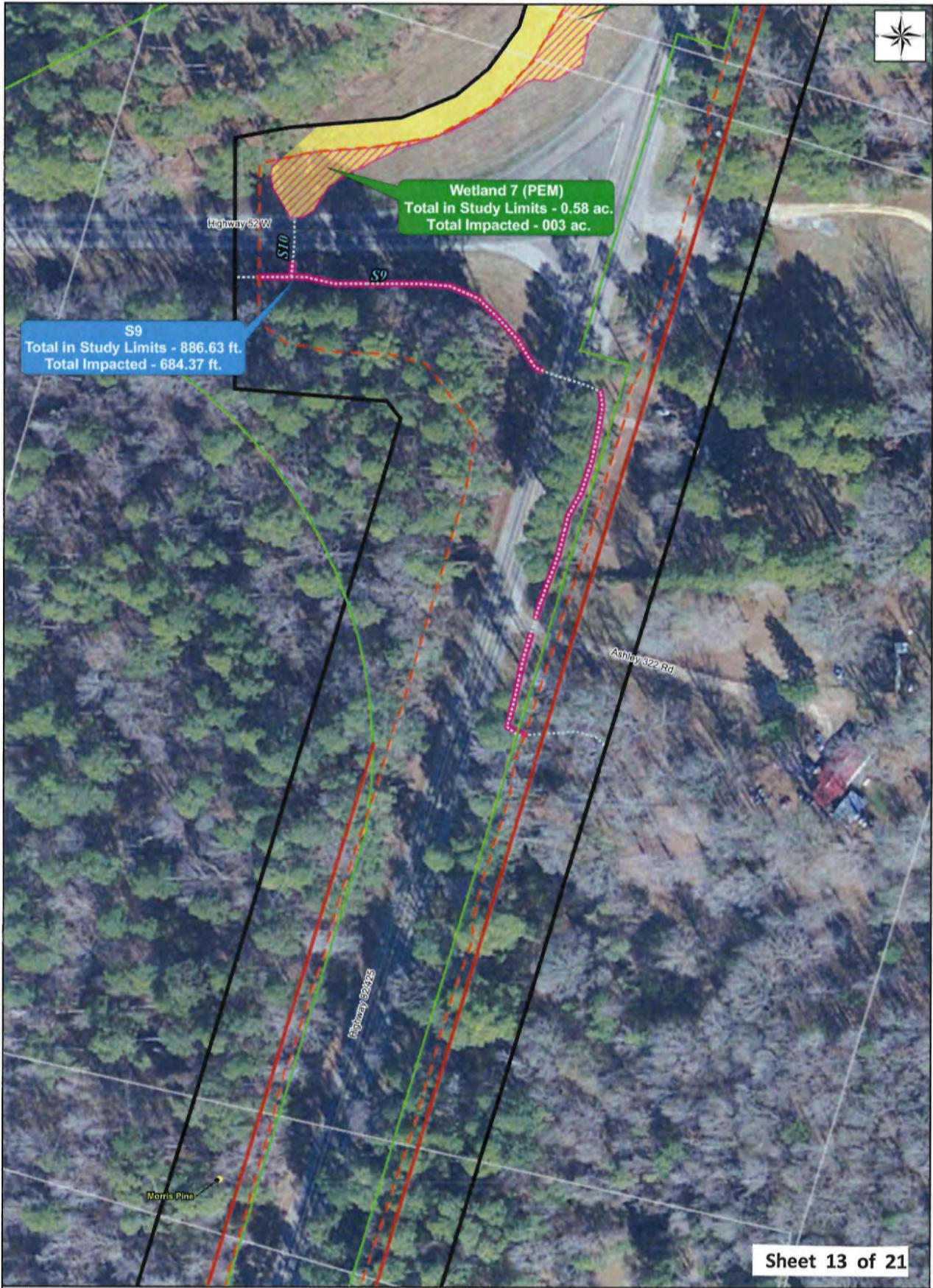
CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
 ASHLEY COUNTY, ARKANSAS

JOB CA0202



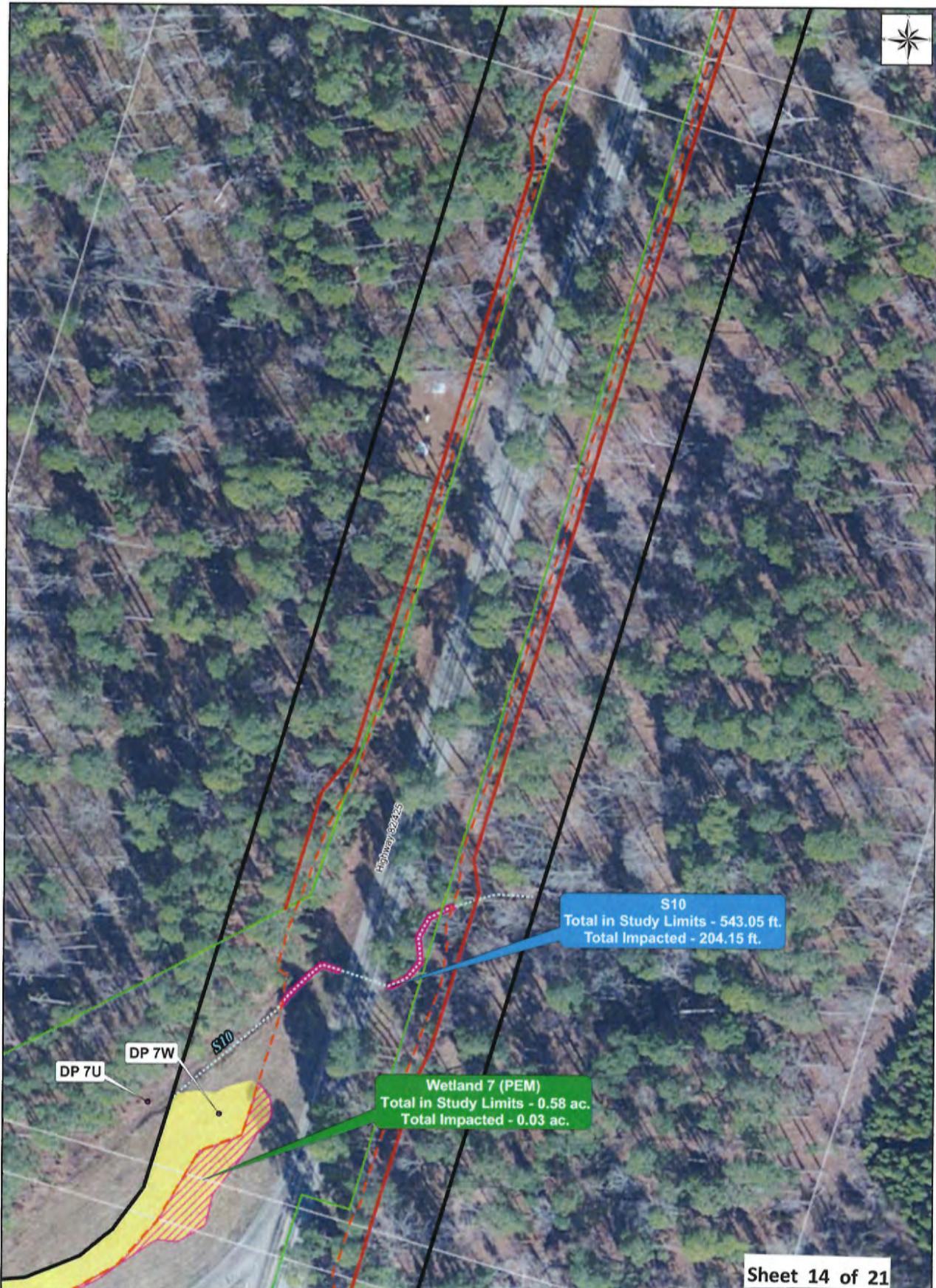
Sheet 12 of 21

<ul style="list-style-type: none"> — Proposed ROW — Proposed Construction Limits — Existing ROW <p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> — Ephemeral Stream — Intermittent Stream — Perennial Stream — Watercourse Impact Study Limits Sheet Boundaries 	<p>Jurisdictional Waters Map</p> <p>Sheet 9 of 24 Date: 4/11/2016</p> <p>0 25 50 100 Feet</p> <p>1 inch = 90 feet</p>	<p>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p>CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p>JOB CA0202</p>
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<ul style="list-style-type: none"> — Proposed ROW - - - Proposed Construction Limits — Existing ROW <p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> — Ephemeral Stream - - - Intermittent Stream — Perennial Stream — Watercourse Impact Study Limits Sheet Boundaries 	<p style="text-align: center;">Jurisdictional Waters Map</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Sheet 12 of 24</td> <td style="text-align: center;">Date: 4/11/2016</td> </tr> </table> <p style="text-align: center;">0 25 50 100 Feet 1 inch = 90 feet</p>	Sheet 12 of 24	Date: 4/11/2016	<p>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p>CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p style="text-align: center;">JOB CA0202</p>
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<ul style="list-style-type: none"> — Proposed ROW - - - Proposed Construction Limits — Existing ROW <p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> — Ephemeral Stream - - - Intermittent Stream — Perennial Stream — Watercourse Impact Study Limits Sheet Boundaries 	<p>Jurisdictional Waters Map</p> <p>Sheet 13 of 24 Date: 4/11/2016</p> <p style="text-align: center;">0 25 50 100 Feet</p> <p style="text-align: center;">1 inch = 90 feet</p>	<p>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p>CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p style="text-align: center;">JOB CA0202</p>
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Proposed ROW	Watercourses in Study Limits
Proposed Construction Limits	Ephemeral Stream
Existing ROW	Intermittent Stream
Wetlands in Study Limits	Perennial Stream
PEM	Watercourse Impact
PFO	Study Limits
Wetland Impact	Sheet Boundaries

Jurisdictional Waters Map

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0 25 50 100
Feet

1 inch = 90 feet

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

**CONNECTING ARKANSAS PROGRAM
HWY.425 - HAMBURG (WIDENING) (S)
ASHLEY COUNTY, ARKANSAS**

JOB CA0202



S12
 Total in Study Limits - 605.24 ft.
 Total Impacted - 184.7 ft.

S13
 Total in Study Limits - 312.85 ft.
 Total Impacted - 36.65 ft.

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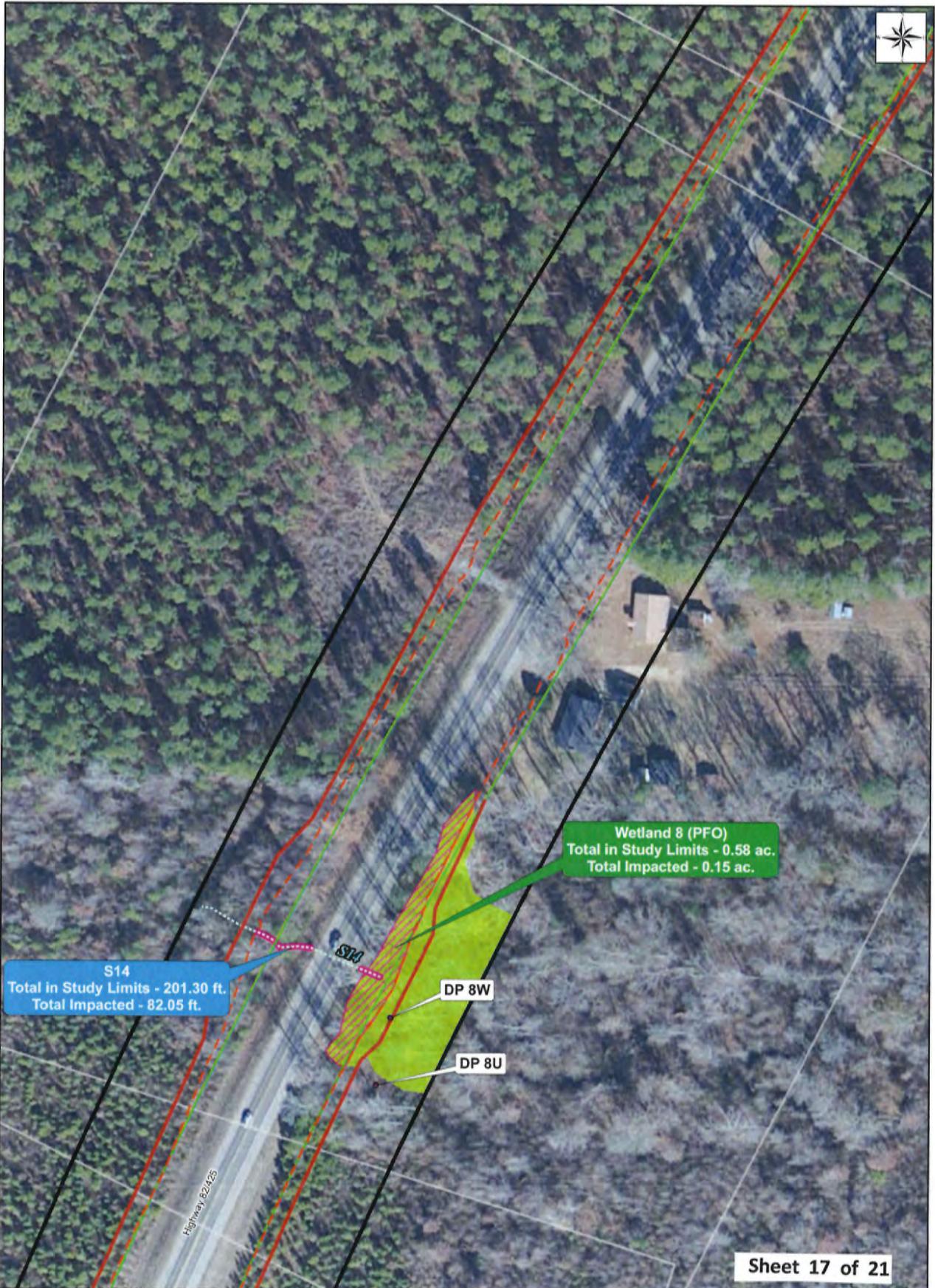
Proposed ROW	Watercourses in Study Limits
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Jurisdictional Waters Map	
Sheet 15 of 24	Date: 4/11/2016
 1 inch = 90 feet	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
 HWY.425 - HAMBURG (WIDENING) (S)
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Proposed ROW	Watercourses in Study Limits
Proposed Construction Limits	Ephemeral Stream
Existing ROW	Intermittent Stream
Wetlands in Study Limits	Perennial Stream
PEM	Watercourse Impact
PFO	Study Limits
Wetland Impact	Sheet Boundaries

Jurisdictional Waters Map	
Sheet 17 of 24	Date: 4/11/2016
 1 inch = 90 feet	

ARKANSAS STATE HIGHWAY AND
TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
HWY.425 - HAMBURG (WIDENING) (S)
ASHLEY COUNTY, ARKANSAS

JOB CA0202



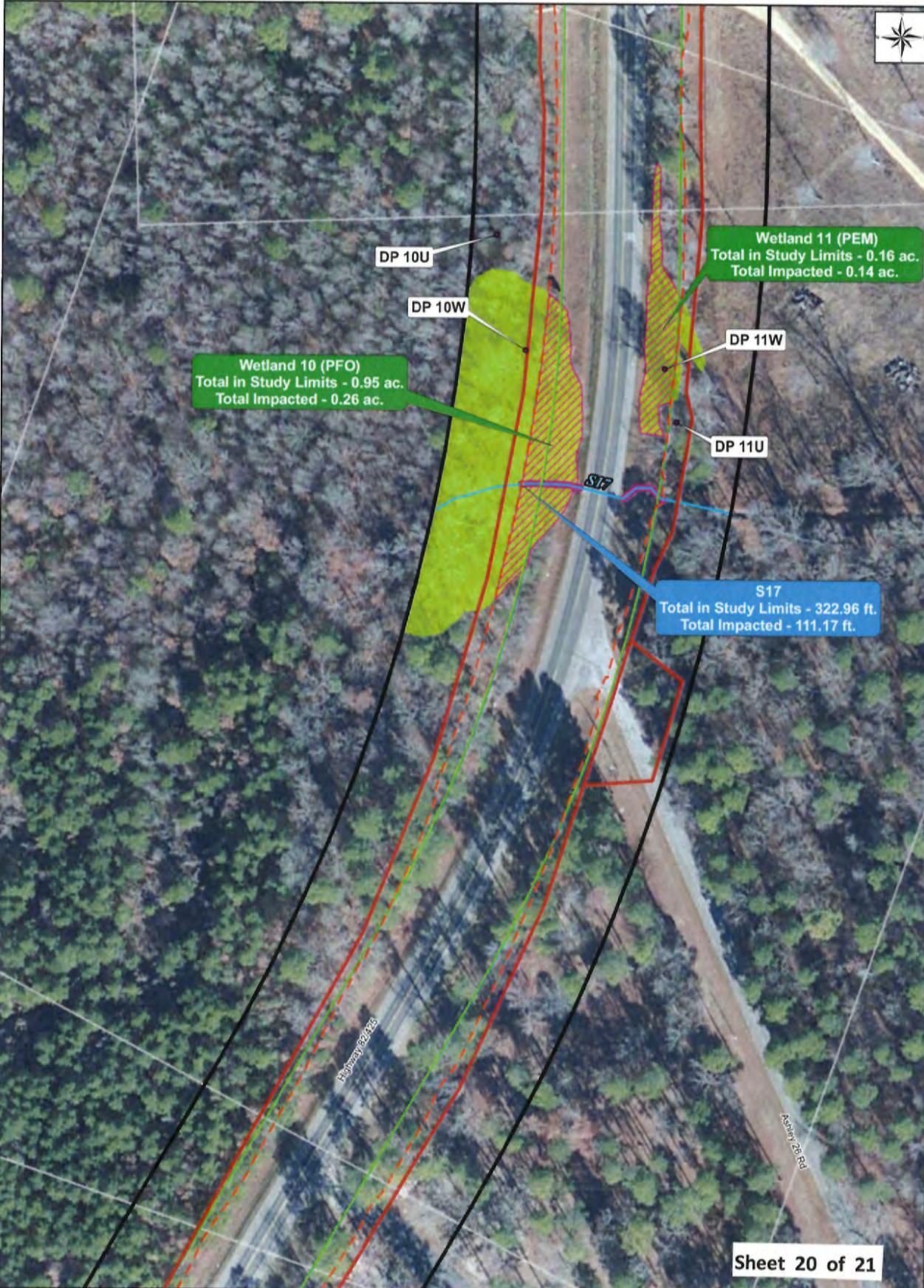
Sheet 18 of 21

<ul style="list-style-type: none"> — Proposed ROW - - - Proposed Construction Limits — Existing ROW <p>Wetlands in Study Limits</p> <ul style="list-style-type: none"> PEM PFO Wetland Impact 	<p>Watercourses in Study Limits</p> <ul style="list-style-type: none"> — Ephemeral Stream - - - Intermittent Stream — Perennial Stream — Watercourse Impact Study Limits Sheet Boundaries 	<p align="center">Jurisdictional Waters Map</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Sheet 20 of 24</td> <td style="width: 50%;">Date: 4/11/2016</td> </tr> </table> <p align="center">0 25 50 100 Feet 1 inch = 90 feet</p>	Sheet 20 of 24	Date: 4/11/2016	<p align="center">ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT</p> <p align="center">CONNECTING ARKANSAS PROGRAM HWY.425 - HAMBURG (WIDENING) (S) ASHLEY COUNTY, ARKANSAS</p> <p align="center">JOB CA0202</p>
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Wetland 10 (PFO)
 Total in Study Limits - 0.95 ac.
 Total Impacted - 0.26 ac.

Wetland 11 (PEM)
 Total in Study Limits - 0.16 ac.
 Total Impacted - 0.14 ac.

S17
 Total in Study Limits - 322.96 ft.
 Total Impacted - 111.17 ft.

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Proposed ROW	Watercourses in Study Limits
Proposed Construction Limits	Ephemeral Stream
Existing ROW	Intermittent Stream
Wetlands in Study Limits	Perennial Stream
PEM	Watercourse Impact
PFO	Study Limits
Wetland Impact	Sheet Boundaries

Jurisdictional Waters Map	
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 1 inch = 90 feet	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CONNECTING ARKANSAS PROGRAM
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 ASHLEY COUNTY, ARKANSAS

JOB CA0202

Required Mitigation Credits Worksheet for a Commercial Mitigation Bank

Factor	Wetland 1	Wetland 2a	Wetland 2b	Wetland 3a	Wetland 3b	Wetland 4	Wetland 5	Wetland 6	Wetland 7	Wetland 8	Wetland 9	Wetland 10	Wetland 11	TOTALS
Wetland Type	Emergent	Forested	Emergent	Forested	Emergent	Emergent	Forested	Emergent	Emergent	Forested	Emergent	Forested	Wetland 11 Emergent	
Lost Type	Type B 0.2	Type A 3.0	Type B 0.2	Type A 3.0	Type B 0.2	Type B 0.2	Type A 3.0	Type B 0.2	Type B 0.2	Type A 3.0	Type B 0.2	Type A 3.0	Type B 0.2	
Priority Category	Tertiary													
Existing Condition	0.5 Slightly impaired 2.0													
Duration	Over 10 2.0													
Dominant Impact	Fill 3.0													
Cumulative Impact	Low 0.001													
Location	On-Site													
Sum of r Factors (Rx)	7.7	10.5	7.7	10.5	7.7	7.7	10.5	7.7	7.7	10.5	7.7	10.5	7.7	
Impacted Area (AAx)	0.07	0.04	0.01	0.01	0.13	0.03	0.08	0.05	0.03	0.15	0.1	0.26	0.14	1.1
RxAA=	0.54	0.42	0.08	0.11	1.00	0.23	0.84	0.39	0.23	1.58	0.77	2.73	1.08	9.98

Total Required Credits = $\sum(RxAA)$ = 9.98
**** Credit per acre at Commercial Mitigation Bank = 3.5**
Acres = 2.85

* Assume that the commercial mitigation site's service area will cover the project area in the Bayou Bartholomew 8-digit HUC (Pelican Foster Mitigation Bank or Lower Cutoff Mitigation Bank).
 ** Assume commercial mitigation bank credit per acre of 3.5.