THE STATES OF	South Carolina Department of Transportation On Behalf of the Federal Highway Administration - South Carolina Division Office PROCESSING FORM FOR PROGRAMMATIC CATEGORICAL EXCLUSIONS NON MAJOR FEDERAL ACTIONS				
Project ID	P044269	Route S-38-191 (Middle Willow Rd.)	CountyO	rangeburg	
		Part 1 - Project Desc	ription		
Include the	Project Name/Desc	cription			
S-38-191 (M proposes to	S-38-191 Culvert/Bridge Replacement over Roberts Swamp S-38-191 (Middle Willow Rd.) Culvert/Bridge Replacement over Roberts Swamp in Orangeburg County. Asset ID 963. This project proposes to install a replacement bridge along S-191 due to damage caused by the 11/07/2024 storm (Orangeburg County Storm). The new bridge will be an on-alignment configuration and will be constructed to comply with current design criteria. Bridge Package 32.				
	Part 2 - PCE Type Select the appropriate Categorical Exclusion from 23 CFR Part 771.117 that best fits the entire project from the drop-down menu. <b>Reference Appendix A of the PCE Agreement for a more detailed description of each CE contained in 23 CFR</b> 771.117.				
23 CFR 771.1	23 CFR 771.117(c) Bridge rehabilitation, reconstruction, or replacement or railroad crossing improvements				
23 CFR 771.1	17(d)				
			1		
Part 3 - Thresholds To be processed as a Programmatic Categorical Exclusion (PCE) the following conditions must be met in addition to the General Criteria (as outlined in the PCE Agreement between FHWA-SC and SCDOT). Place a "X" in the appropriate box below. If the answer is "Yes" to any of the below criteria, SCDOT will consult with FHWA-SC to determine the appropriate level of NEPA documentation required and forward to FHWA-SC for approval. *Reference Part 4 of the Processing form or Section IV of the PCE Agreement for more details and definitions regarding each threshold.					
1. Invo	lves any unusual circ	umstances as described in * <u>23 CFR Part 771.11</u>	<u>7(b)</u>	🗌 Yes	🔀 No
	acquisition of more t ght-of-way	han * <u>minor amounts</u> of temporary or permane	ent strips	🗌 Yes	🔀 No
3. Invo	lves acquisitions that	t result in residential or non-residential displace	ements	Yes	🖂 No
4. Invo	lves any adverse imp	pacts to EJ populations		🗌 Yes	🖂 No

Form Updated: 5-02-2022

	Part 3 - Thresholds Continued			
5.	Results in capacity expansion of a roadway by adding through lanes	Yes	$\times$	No
6.	Involves construction that would result in *major traffic disruptions	Yes		No
7.	Involves * <u>changes in access control</u> requiring FHWA approval	Yes		No
8.	An adverse effect determination under Section 106 of the National Historic Preservation Act.	Yes	$\boxtimes$	No
9.	Use of Section 4(f) property that cannot be documented with a FHWA <i>de minimis</i> determination or a programmatic Section 4(f) other than the programmatic evaluation for the use of historic bridges	Yes		No
10.	Any use of a Section 6(f) property	Yes	$\mathbf{X}$	No
11.	Requires an Individual USACE 404 Permit	🗌 Yes	$\square$	No
12.	Requires an Individual U.S. Coast Guard Permit.	🗌 Yes	$\square$	No
13.	Work encroaching in a regulatory floodway, adversely affecting the base floodplain (100 yr.) pursuant to E.O. 11988 and 23 CFR Part 650 Subpart A	🗌 Yes	X	No
14.	Construction in, across, or adjacent to a river designated as a National Wild and Scenic River	🗌 Yes	$\boxtimes$	No
15.	Involves an increase of 15 dBA or greater on any noise receptor or abatement measures are found to be feasible and reasonable due to noise impacts	🗌 Yes		No
16.	May affect and is likely to adversely affect a Federally listed species or designated critical habitat or projects with impacts subject to the BGEPA	🗌 Yes	$\boxtimes$	No
17.	Involves acquisition of land for hardship, protective purposes, or early acquisition	🗌 Yes		No
18.	Does not meet the latest Conformity Determination for air quality non-attainment areas (if applicable).	Yes	X	No
19.	Any known or potential <u>major</u> hazardous waste sites within the right-of-way.	Yes	$\boxtimes$	No
20.	Is not included in or is inconsistent with the STIP and/or TIP	🗌 Yes	$\square$	No
Part 3 Continued - Additional criteria to be completed for disposal of excess right-of-way PCE				
1. Is the parcel part of a SCDOT environmental mitigation effort or could it be used for environmental mitigation?			Yes	□ No
	nere a formal plan to use this parcel for a future transportation project (is it part of an approv Jpdated: 5-02-2022	ved LRTP)?	🗌 Yes	D No Page 2 of 3

# Part 4 - Threshold Definitions

### Unusual Circumstances (23 CFR Part 771.117) - Unusual circumstances are defined as:

a. Significant environmental impacts;

b. Substantial controversy on environmental grounds;

c. Significant impact on properties protected by Section 4(f) of the DOT ACT or Section 106 of the National Historic Preservation Act; or d. Inconsistencies with any Federal, State, or local law, requirement, or administrative determination relating to the environmental aspects of the action.

### Minor Amount of Right-of-Way (ROW):

A minor amount of ROW is defined as less than 3 acres per linear mile for linear projects or less than 10 acres of impacts for non-linear projects (eq: intersections, bridges), and no removal of major property improvements. Examples of major improvements include residential and business structures, or the removal of other features which would change the functional utility of the property. Removal of minor improvements, such as fencing, landscaping, sprinkler systems, and mailboxes would be allowed.

### Major Traffic Disruptions:

A major traffic disruption is defined as an action that would result in: a) adverse effects to through-traffic businesses or schools, b) substantial change in environmental impacts, or c) public controversy associated with the use of the temporary road, detour, or ramp closure.

### **Changes in Access Control:**

Requires approval from FHWA for changes in access control on the Interstate system (eg: Interchange Modification Reports or Interchange Justification Reports).

Environmental Commitments:	(Check all that apply)			
USTs/Hazardous Materials	General Permit	Right of Way		
🔀 Water Quaility	Individual Permit	∑ Floodplains		
⊠ Migratory Bird Treaty Act	Essential Fish Habitat	Lead Based Paint		
⊠ Stormwater	⊠ Cultural Resources			
Coast Guard Permit Exclusion	Noise	Non-Standard Commitment (see below)		
Relevant field studies and environmental reviews have been completed to determine that the project meets the criteria set forth in the Programmatic Categorical Exclusion Agreement signed by FHWA-SC and SCDOT. It is understood that any additions/deletions to the project may void environmentally processing the project as presently classified; consequently, any engineering changes must be bought to the attention of SCDOT Environmental Services Office immediately. A copy of this form is included in the project file and one (1) copy has been provided to FHWA.				
Approved By: Caycee Cleaver		Date Feb 13, 2025		
Primavera: 🖂 Yes 🗌 No NEPA	Start Date: Feb 12, 2025	Does the project contain additional commitments?: (if Yes attach to form) 🔀 Yes 🗌 No		
Form Updated: 5-02-2022 Page 3 of 3				

Date: 02/13/2025	NEPA ENVIRONMEN	TAL COMMITMENTS FORM	1	ENVIRONMENTAL SERVICES	
Project ID : P044269 County :	Orangeburg Distr	ict : Doc Ty	pe: PCE	Total # of 5	
Project Name: S-38-191 Culvert/Bridge R	eplacement over Robert	s Swamp			
the responsibility of the Program Manager to	The Environmental Commitment <b>Contractor Responsible</b> measures listed below <b>are to be included in the contract and must be implemented</b> . It is the responsibility of the Program Manager to make sure the Environmental Commitment <b>SCDOT Responsible</b> measures are adhered to. If there are questions regarding the commitments listed please contact:				
CONTACT NAME: Tyler Clark		PHO	NE #: (803)-737-459	96	
EN	VIRONMENTAL COM	MITMENTS FOR THE PE	ROJECT		
Water Quality	NEPA Doc Ref:		Responsibility:	CONTRACTOR	
The contractor will be required to mipolicies contained in 23 CFR 650B an edition) and Supplemental Technical fences, sediment basins, etc. as appr	d the Department's Su Specifications on Seec	pplemental Specification ling (latest edition). Oth	on Erosion Cont er measures inclu	trol Measures (latest uding seeding, silt	
				Special Provision	
Migratory Bird Treaty Act	NEPA Doc Ref:		Responsibility:	CONTRACTOR	
The federal Migratory Bird Treaty Act, 16 USC § 70 sell, barter, purchase, deliver or cause to be shipp not. The South Carolina Department of Transport migratory birds and the destruction of their active	ed, exported, imported, transp ation (SCDOT) will comply with	orted, carried or received any mig	ratory bird, part, nest,	egg or product, manufactured or	
The RCE will coordinate with SCDOT Environment coordination, it will be determined when constru	The contractor shall notify the Resident Construction Engineer (RCE) at least four (4) weeks prior to construction/demolition/maintenance of bridges and box culverts. The RCE will coordinate with SCDOT Environmental Services Office (ESO), Compliance Division, to determine if there are any active birds using the structure. After this coordination, it will be determined when construction/demolition/maintenance can begin. If a nest is observed that was not discovered after construction/demolition/ maintenance has begun, the contractor will cease work and immediately notify the RCE, who will notify the ESO Compliance Division. The ESO Compliance Division will determine the next course of action.				
	The use of any deterrents by the contractor designed to prevent birds from nesting, shall be approved by the RCE with coordination from the ESO Compliance Division. The cost for any contractor provided deterrents will be provided at no additional cost to SCDOT. Special Provision				
Charmanatar					
Stormwater	NEPA Doc Ref:		Responsibility:	CONTRACTOR	
Stormwater control measures, both during construction and post-construction, are required for SCDOT projects with land disturbance and/or constructed in the vicinity of 303(d), TMDL, ORW, tidal, and other sensitive waters in accordance with the SCDOT's MS4 Permit. The selected contractor would be required to minimize potential stormwater impacts through implementation of construction best management practices, reflecting policies contained in 23 CFR 650 B and SCDOT's Supplemental Specifications on Seed and Erosion Control Measures (latest edition).					
				Special Provision	

Project ID :	P044269
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### SCDOT NEPA ENVIRONMENTAL COMMITMENTS FORM



# ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

Cultural Resources	NEPA Doc Ref:		Responsibility:	CONTRACTOR
The contractor and subcontractors must notify their workers to watch for the presence of any prehistoric or histor remains, including but not limited to arrowheads, pottery, ceramics,flakes, bones, graves, gravestones, or bri concentrations during the construction phase of the project, if any such remains are encountered, the Reside Construction Engineer (RCE) will be immediately notified and all work in the vicinity of the discovered materials and si work shall cease until the SCDOT Archaeologist directs otherwise.				gravestones, or brick puntered, the Resident
Floodplains	NEPA Doc Ref:		Responsibility:	CONTRACTOR
The Engineer of Record will send a set of County Floodplain Administrator.	final plans and rec	uest for floodplain mana	agement complia	nce to the local

NEPA Doc Ref:	Responsibility:	
		Special Provision

Cultural Resources Project Scre	eening Form		
File Number:     PIN:     44269     Route:     S-191       Project Name:	County: Orangeburg		
S-191 (Middle Willow Rd) over Roberts Swamp Emergency Culvert Re	eplacement		
Type 1: Resurfacing, installation of fencing, signs, pavement markings, traffic signals, passenger shelters, railroad warning devices, installation of rumble strips, and landscaping	Project Type 2		
Type 2: Bridge replacements on alignment, construction of bicycle/pedestrian facilities, and intersection improvements			
Type 3: Projects that do not fall into Type 1 and Type 2 categories (e.g. road			

### Comments

widening)

This project will replace the culvert carrying S-191 (Middle Willow Road) over Roberts Swamp, which was damaged during a flooding event. The culvert will be replaced on existing alignment and a small amount of new right-of-way (ROW) may be required. The archaeological area of potential effect (APE) extends 75 feet to each side of the roadway centerline and 800 feet from either end of the culvert. The archaeological survey examined the archaeological APE. The architectural survey examined the architectural APE, which consisted of a 300-foot buffer around the archaeological APE. The APEs were reviewed using ArchSite, Google Earth, Web Soil Survey, historic topographic maps, and aerial photographs. The review determined that the areas has not been previously surveyed for cultural resources and no previously recorded historic properties are located within or in the vicinity of the APEs. Web Soil Survey maps the soils within the APE as follows: well drained (28 percent); moderately well drained (24 percent); somewhat poorly drained (12 percent); and poorly drained (36 percent). A cultural resources field survey, consisting of a pedestrian reconnaissance of the entire APE, augmented by the excavation of shovel tests, was conducted on January 31, 2025 with assistance from HDR. At the time of survey, the culvert was significantly damaged and the road was closed to traffic. Thirty-four shovel test locations were investigated. Sixteen of these shovel tests were excavated; the 18 remaining shovel tests were not excavated due to wetlands. All shovel tests were negative for cultural material. No archaeological sites were identified. One new historic architectural resource was recorded. SHPO Site Number 0556 (Asset ID 62) is a 20.8-foot long two-span concrete culvert constructed in 1939. SHPO Site Number 0556 is recommended not eligible for the National Register of Historic Places (NRHP). No additional cultural resources investigations are recommended.

Effect Determination:

No Historic Properties Affected

\*SHPO consultation is required for all Type 3 projects and any project with a No Adverse or Adverse Effect Determination.

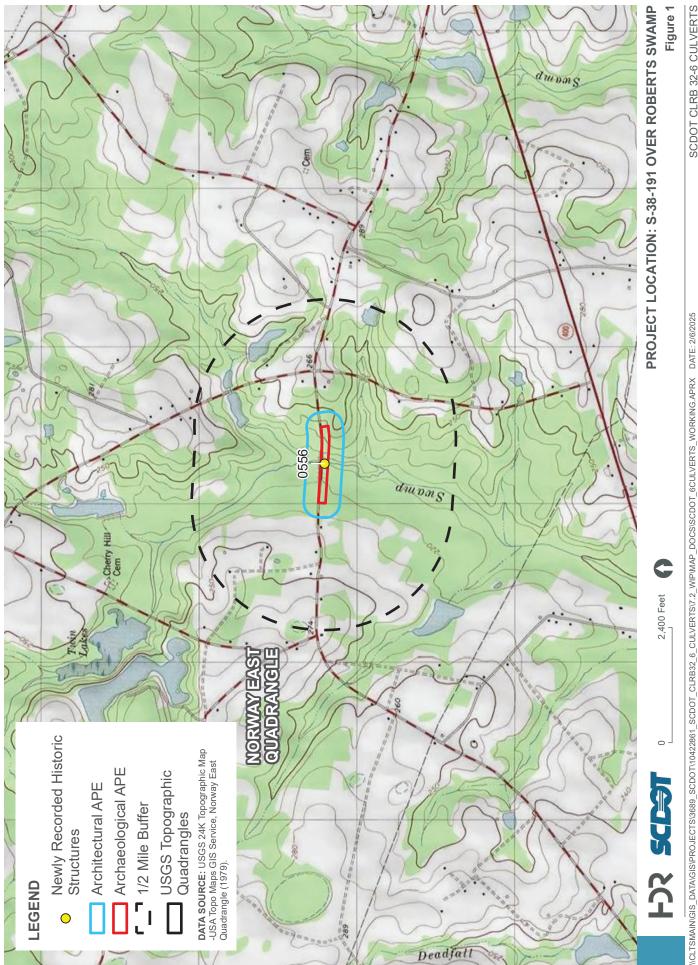
This screening form was developed to satisfy documentation requirements for Type I and Type II projects under a Programmatic Agreement between the Federal Highway Administration, the South Carolina State Historic Preservation Office, the US Army Corps of Engineers, and the South Carolina Department of Transportation. For Type I and Type II projects that have no effect on historic properties, the completion of this screening form with supporting documentation (e.g. ArchSite Map) provides evidence of FHWA and SCDOT's compliance with Section 106 of the National Historic Preservation Act.

Prepared by:

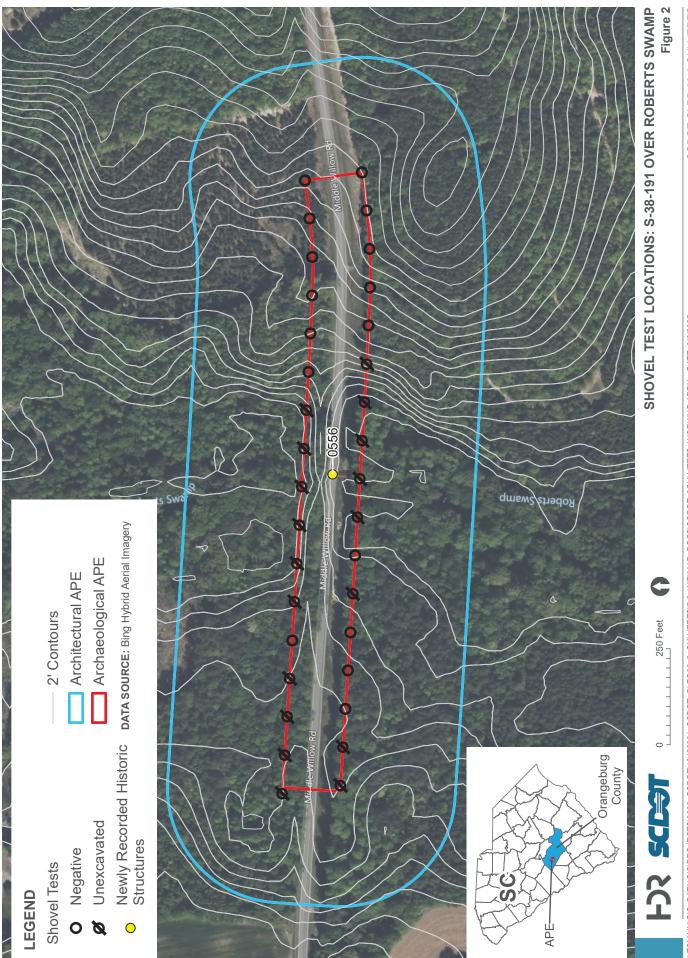
Rebecca Shepherd

Review Date:

2/12/2025



SCDOT CLRB 32-6 CULVERTS



SCDOT CLRB 32-6 CULVERTS

INCLTSMAINIGIS\_DATAGISIPROJECTS3889\_SCD0T140422861\_SCD0T\_CLRB32\_6\_CULVERTS17.2\_WIPMAP\_DOCSISCD0T\_6CULVERTS\_WORKING.APRX\_DATE: 2/6/2025



# **Biological Assessment Report**

Project Title: SC-191 Over Roberts Swamp (Emergency Replacement)

County: Orangeburg

SCDOT PIN: P044269

Date: 1/13/2025

Prepared By: Keith Walker

Pursuant to Section 7 of the Endangered Species Act, a field survey was conducted within the project corridor. The following list of threatened (T) and endangered (E) species was obtained from the U.S. Fish and Wildlife Service:

# Description

Emergency replacement of the existing washed out culvert on SC-191 with a bridge over Roberts Swamp, Orangeburg County. The project site is in a rural area and consists primarily of hardwood bottoms associated with Roberts Swamp and pine plantations.

Species	Common Name	Status
Haliaeetus leucocephalus	Bald Eagle	BGEPA
Perimyotis subflavus	Tricolored Bat	Proposed Endangered
Danaus plexippus	Monarch Butterfly	Proposed Threatened
Dryobates borealis	Red-cockaded Woodpecker	Threatened
Oxypolis canbyi	Canby's Dropwort	Endangered

# Species List

# Birds

*Haliaeetus leucocephalus:* No Effect. The project impact area is approximately 7 miles from the South Fork Edisto River and six miles from the North Fork Edisto River. No suitable nesting trees or individuals were observed within or near the project site.

*Dryobates borealis:* No Effect. Red-cockaded woodpecker habitat consists of mature (30 years or older) pine tree stands with little or no midstory. The project site is primarily bottomland and

riparian hardwoods with mixed hardwoods and young pine plantation in the adjacent uplands. No habitat or nesting cavities were observed.

# Insects

*Danaus plexippus:* At this time, the Monarch butterfly is proposed for federal listing as Threatened. Monarch butterflies use a variety of habitats that support flowering herbaceous plants and require milkweed for reproduction. No individuals or milkweed were observed. When listing becomes final, the project will be further evaluated for potential effects on the species and consultation will be initiated if required.

# Mammals

*Perimyotis subflavus:* At this time, the tri-colored bat is proposed for federal listing as endangered. The project area does contain suitable summer habitat and potential roosting trees for the tri-colored bat. Tri-colored bats are known to use various canopy tree species for roosting and man-made structures. Since the project involves a minimal amount of tree clearing, the project should not adversely affect the species. When listing becomes final, the project will be further evaluated for potential effects on the species and consultation will be initiated if required.

# Plants

*Oxypolis canbyi:* No effect. Canby's dropwort is found in a variety of Coastal Plain habitats prone to long periods of inundation, including pond cypress ponds, grass-sedge dominated Carolina bays, wet pine savannas, shallow pineland ponds and cypress-pine swamps or sloughs. Known soil types that support this species are Rembert loam, Portsmouth loam, McColl loam, Grady loam, Coxville fine sandy loam, and Rains sandy loam. Historically, fire prevented kept sites open and prevented competition from other species. This site contains trace amounts of Coxville and Rains soils (2-3%) found under closed canopy hardwoods.

# Results

No federally threatened, endangered, or otherwise protected species or their habitats were observed in the project area. Based on the results, no current federally protected species will be adversely affected by the proposed project.



# United States Department of the Interior

FISH AND WILDLIFE SERVICE South Carolina Ecological Services 176 Croghan Spur Road, Suite 200 Charleston, SC 29407-7558 Phone: (843) 727-4707 Fax: (843) 727-4218



In Reply Refer To: Project code: 2025-0040803 Project Name: S-191 Over Roberts Swamp 01/13/2025 13:55:21 UTC

Subject: Consistency letter for 'S-191 Over Roberts Swamp' for specified federally threatened and endangered species and designated critical habitat that may occur in your proposed project area consistent with the South Carolina Ecological Services Field Office (ESFO) Determination Key (DKey) for project review and guidance for federally listed species.

Keith Walker:

The U.S. Fish and Wildlife Service (Service) received on **January 13, 2025** your effect determination(s) for the 'S-191 Over Roberts Swamp' (the Action) using the South Carolina ESFO DKey for project review and guidance for federally-listed species within the Information for Planning and Consultation (IPaC) application. The Service developed this application in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's South Carolina ESFO DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Canby's Dropwort (Oxypolis canbyi)	Endangered	No effect
Red-cockaded Woodpecker (Dryobates borealis)	Threatened	No effect

# **Consultation Status**

Your agency has met consultation requirements for the species listed above by informing the Service of the "no effect" determinations. No further consultation for this project is required for these species. This consistency letter confirms you may rely on effect determinations you reached by considering the South Carolina ESFO DKey to satisfy agency consultation requirements under Section 7(a) (2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.; ESA).

The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Monarch Butterfly Danaus plexippus Proposed Threatened
- Tricolored Bat Perimyotis subflavus Proposed Endangered

Please note that due to obligations under the ESA, potential impacts of this project must be reconsidered if: (1) new information reveals impacts of this identified action may affect any listed species or critical habitat in a manner not previously considered; (2) this action is subsequently modified in a manner which was not considered in this assessment; or (3) a new species is listed or critical habitat is designated that may be affected by the identified action. If any of the above conditions occurs, additional consultation with the South Carolina ESFO should take place before project changes are final or resources committed.

**Bald and Golden Eagle Protection Act (BGEPA):** Bald and golden eagles are not included in this section 7(a)(2) consultation and this information does not constitute a determination of effects by the Service. The Service developed the <u>National Bald Eagle Management Guidelines</u> to advise landowners, land managers, and others who share public and private lands with bald eagles when and under what circumstances the protective provisions of the BGEPA may apply to their activities. The guidelines should be consulted prior to conducting new or intermittent activity near an eagle nest.

If the Federal Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) may be required. Please contact Ulgonda Kirkpatrick (phone: 321/972-9089, e-mail: ulgonda\_kirkpatrick@fws.gov) with any questions regarding potential impacts to bald or golden eagles.

# **Action Description**

You provided to IPaC the following name and description for the subject Action.

# 1. Name

S-191 Over Roberts Swamp

# 2. Description

The following description was provided for the project 'S-191 Over Roberts Swamp':

Emergency Culvert replacement over Roberts Swamp. Washed out culvert to be replaced with a bridge

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@33.47945125,-81.06227153249762,14z</u>



# QUALIFICATION INTERVIEW

1. Does the proposed project involve research or other actions that include the collection, capture, handling, or harassment of any individual federally listed threatened, endangered or proposed species?

No

- 2. Is the action authorized, funded, or being carried out by a Federal agency? *Yes*
- 3. Are you the Federal agency or designated non-federal representative?

Yes

- 4. Is the project an existing structure that requires maintenance, repair, or replacement? *Yes*
- 5. Will all project take place within the existing structure's footprint?

Yes

- Does the project intersect the red-cockaded woodpecker AOI? Automatically answered Yes
- 7. Is the action area located within suitable Red-cockaded woodpecker <u>foraging habitat</u> (pine or pine/hardwood stands in which 50% or more of the dominant trees are pines and the dominant pine trees are 30 years of age or older or >10-inches diameter breast height (dbh) and the midstory height does not exceed 12 feet)?

No

- Does the project intersect the Canby's dropwort AOI? Automatically answered *Yes*
- 9. Is there suitable habitat for Canby's dropwort located within the project area?

**Note:** Canby's Dropwort can be found in a variety of coastal plain habitats, including natural ponds dominated by pond cypress, grass-sedge-dominated Carolina bays, wet pine savannas, shallow pineland ponds and cypress-pine swamps or sloughs. The largest and most vigorous populations have been found in open bays or ponds that are wet throughout most of the year, but which have little or no canopy cover. Soils are sandy loams or acidic peat mucks underlain by clay layers which, along with the slight gradient of the areas, result in the retention of water.

No

# **IPAC USER CONTACT INFORMATION**

Agency: South Carolina Department of Transportation Name: Keith Walker Address: 955 Park Street Columbia City: State: SC 29201 Zip: Email walkerke@scdot.org Phone: 8037371387

# LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration



# United States Department of the Interior

FISH AND WILDLIFE SERVICE South Carolina Ecological Services 176 Croghan Spur Road, Suite 200 Charleston, SC 29407-7558 Phone: (843) 727-4707 Fax: (843) 727-4218



In Reply Refer To: Project Code: 2025-0040803 Project Name: S-191 Over Roberts Swamp 01/13/2025 13:52:12 UTC

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

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/whatwe-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

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

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

# **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

# South Carolina Ecological Services

176 Croghan Spur Road, Suite 200 Charleston, SC 29407-7558 (843) 727-4707

# **PROJECT SUMMARY**

Project Code:	2025-0040803
Project Name:	S-191 Over Roberts Swamp
Project Type:	Culvert Repair/Replacement/Maintenance
Project Description:	Emergency Culvert replacement over Roberts Swamp. Washed out culvert
	to be replaced with a bridge

Project Location:

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@33.47945125,-81.06227153249762,14z</u>



Counties: Orangeburg County, South Carolina

# **ENDANGERED SPECIES ACT SPECIES**

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

# MAMMALS

NAME	STATUS
Tricolored Bat Perimyotis subflavus	Proposed
No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10515</u>	Endangered
BIRDS NAME	STATUS
Red-cockaded Woodpecker Dryobates borealis	Threatened
No critical habitat has been designated for this species.	
Species profile: <u>https://ecos.fws.gov/ecp/species/7614</u>	

NAME	STATUS
Monarch Butterfly Danaus plexippus	Proposed
There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical	Threatened
habitat.	
Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	

**FLOWERING PLANTS** 

NAME	STATUS
Canby's Dropwort Oxypolis canbyi	Endangered
No critical habitat has been designated for this species.	
Species profile: <u>https://ecos.fws.gov/ecp/species/7738</u>	

# **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

# **BALD & GOLDEN EAGLES**

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act  $\stackrel{2}{=}$  and the Migratory Bird Treaty Act (MBTA)  $\stackrel{1}{=}$ . Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

- 1. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 2. The <u>Migratory Birds Treaty Act</u> of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

# **MIGRATORY BIRDS**

The Migratory Bird Treaty Act (MBTA) <sup>1</sup> prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

# WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER FORESTED/SHRUB WETLAND

PFO1C

• PFO1A

RIVERINE

R5UBH

# **IPAC USER CONTACT INFORMATION**

Agency:South Carolina Department of TransportationName:Keith WalkerAddress:955 Park StreetCity:ColumbiaState:SCZip:29201Emailwalkerke@scdot.orgPhone:8037371387

# LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

# **PERMIT DETERMINATION**

Date: Feb 13, 2025	Project ID: P044269
From:Caycee Cleaver	Company:SCDOT
Contact Info (phone and/or email): cleavercc@sc	:dot.org
Permit Manager: Will McGoldrick - Alternative I	Delivery Coordinator
Project Name: S-38-191 Bridge/Culvert Replacer	· · ·
County: Orangeburg (C	Optional) Structure #: 963
<b>STUDY AREA:</b> Does there appear to be WOTUS in the st	tudy area? • YES O NO
PERMIT TYPE:	
It has been determined that no permit is req	uired because:
The following permit(s) is/are necessary: (Please check which type(s) of permit the USACE Permit GP IP OCRM Permit Individual CAP Navigable Permit State NAV USC 408 PROJECT INFO:	NWP CAP GP
	○ NO
408 Project Name:	
MITIGATION:	
Mitigation Bank: • YES • NO	
Mitigation Bank Nar	ne: RMC Associates/Richard Bates
Comments:	
The determination above was based on the most r is a preliminary determination and is subject to cl Caycee Cle	hange if the design of the project is modified.

Caycee Cleaver Cleaver Date: 2025.02.13 08:22:24 -05'00'

Biologist, SCDOT/Consultant

Date



# Watershed and Water Quality Information

SC Department of Environmental Services

General Information

Applicant Name: Caycee Cleaver Address: 558 MIDDLE WILLOW RD, NEESES, SC, 29107 MS4 Designation: Not in designated area Within Coastal Critical Area: No Waterbody Name: ROBERTS SWAMP

### Permit Type: Construction

Latitude/Longitude: 33.479269 / -81.061569

### Monitoring Station: E-592 Water Classification (Provisional): FW Entered Waterbody Name:

Parameter Description

NH3N	Ammonia	CD	Cadmium	CR	Chromium
CU	Copper	HG	Mercury	NI	Nickel
PB	Lead	ZN	Zinc	DO	Dissolved Oxygen
PH	рН	TURBIDITY	Turbidity	ECOLI	Escherichia coli (Freshwaters)
FC	Fecal Coliform (Shellfish)	BIO	Macroinvertebrates (Bio)	TP	(Lakes) Phosphorus
TN	(Lakes) Nitrogen	CHLA	(Lakes) Chlorophyll a	ENTERO	Enterococcus (Coastal Waters)
HGF	Mercury (Fish Tissue)	PCB	PCB (Fish)		· · · · · ·

Impaired Status (downstream sites)

Station	NH3N	CD	CR	CU	HG	NI	PB	ZN	DO	PH	TURBIDITY	ECOLI	FC	BIO	TP	ΤN	CHLA	ENTERO	HGF	PCB
E-592	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Ν	Х	Х	Х	Х	Х	Х
E-500	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Α	Х	Х	Х	Х	N	Х
E-012	Х	F	F	F	F	F	F	F	F	F	F	WnTN	Х	Α	Х	Х	Х	Х	Α	Х

F = Standards full supported N = Standards not supported

A = Assessed at upstream station X = Parameter not assessed at station WnTN = Within TMDL, parameter not supported InTN = In TMDL, parameter not supported WnTF = Within TMDL, parameter full supported InTF = In TMDL, parameter full supported

Parameters to be addressed (those not supporting standards)

**BIO** - Macroinvertebrates (Bio) **ECOLI** - Escherichia coli (Freshwaters)

Fish Consumption Advisory

### HGF - Mercury (Fish Tissue)

Waters of Concern (WOC)

TMDL Information - TMDL Parameters to be addressed

In TMDL Watershed: Yes TMDL Report No: 021-05 TMDL Site: E-039 TMDL Parameter: Fecal

TMDL Document Link: https://des.sc.gov/sites/des/files/docs/HomeAndEnvironment/Docs/tmdl%20robertsswp\_fc.pdf

Report Date: December 23, 2024



## Area of Interest (AOI) Information

Area : 10.8 acres Buffer: 75 Feet

Dec 23 2024 12:34:09 Eastern Standard Time

### Environmental Questions for Feasibility Study:

What is the anticipated NEPA Document Type?

PCE

Is noise analysis required?

No

What is the anticipated Permit Type(s)?

NWP 3

Are there navigable waters in the project area?

No

Is the project within an existing Mitigation Bank Service area?

Has a SCDHEC Water Quality Report been provided?

Yes

### Additional Comments:

### Summary

Name	Count	Area(acres)	Length(ft)	
Watershed	1	10.80	N/A	
Ecoregion	1	10.80	N/A	
Wetlands Likelihood Layer	10	1.97	N/A	
USGS Streams	1	N/A	150.00	

### Watershed

#	Basin	HUC 8	Area(acres)
1	Edisto	03050204	10.80

# Ecoregion

about:blank

#	L4_KEY	L3_KEY	Area(acres)
1	651 Atlantic Southern Loam Plains	65 Southeastern Plains	10.80

# Wetlands Likelihood Layer

#	ATTRIBUTE	ATTRIBUTE WETLAND_TY	
1	No Data	No Data	1.49
2	PF01C	Freshwater Forested/Shrub Wetland	0.25
3	PF01A	Freshwater Forested/Shrub Wetland	0.23

# **USGS** Streams

#	NAME	Length(ft)
1	Roberts Swamp	150.00

# The Screening widget allows you to define an area of interest and analyze below listed layers for potential impacts.

# **Boundary:** Cities; COG, Watershed; Ecoregion

# **Roads & Bridges:** Statewide Bridges; Roads; State Highways

# Biological

**Resources:** T & E Species; Statewide Element Occurence's; T & E Critical Habitat; Oyster Habitat Corridor; Bald Eagle Nests

# Cultural

**Resources:** Archaeological Point; Civil War Earthworks; Historic Structures; National Register Points; Restricted National Register Points; Survey Lines; Archaeological Site; Survey Areas; Historic Areas; National Register Polygon; Restricted National Register Polygon

# Protected

Lands: NWF Wildlife Refuges Area; NRCS Easments; Heritage Preserves; Parks; US Forest; Wildlife Management Areas

### about:blank

# WOTUS: Streams; Lakes; NWI Wetlands; Wetlands Likelyhood Layer

# Coastal

**Resources:** Shellfish Monitoring Station; Critical Area Boundary; Shellfish Classification; SCDNR Oyster Habitat; SCDNR Oyster Beds

Water Quality: Bio Station; TMDL

# Land and

**Waste:** Solid Waste Landfill; Underground Storage Tank; Above Ground Storage Tank; CERCLA; Complience and Enforcement; DryCleaners; Leaking Underground Storage Tank

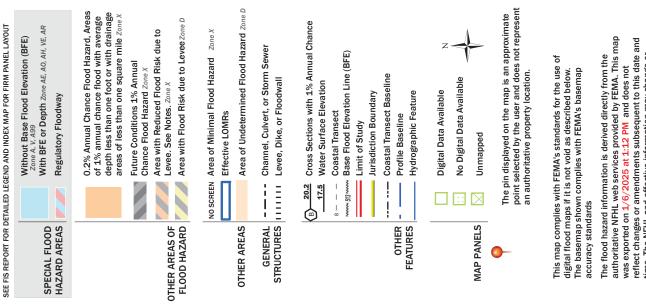
**Others:** Soil Classification

# National Flood Hazard Layer FIRMette

31°3'59"W 33°29'



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time. The NFHL and effective information may change or

become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Basemap Imagery Source: USGS National Map 2023

51°3'22"W 33°28'30

1:6,000 Feet 2,000 1,500 1,000 500 250

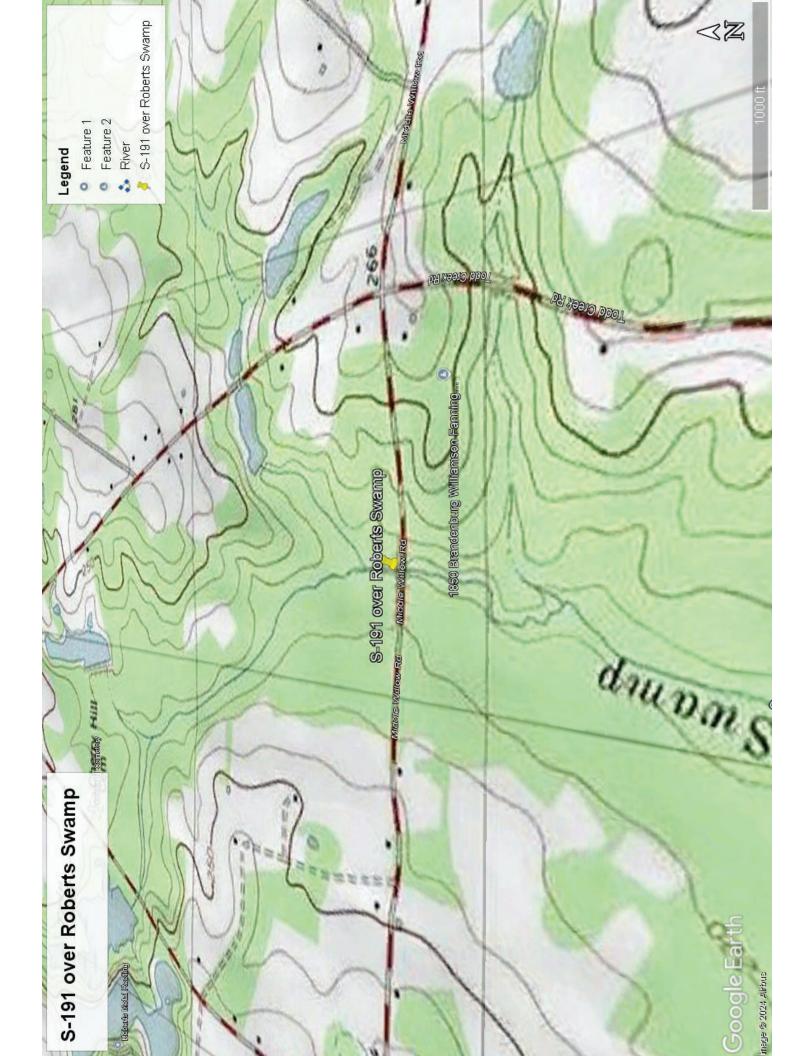
45075C0335C eff. 1/16/2014

ARE/OFMINIMALELOOD HAZARD

ORANGEBURG COUNTYUNINCORPORATED AREAS 450160

eff. 1/16/2014 45075C0330





### South Carolina Department of Transportation Location and Hydraulic Design of Encroachments on Floodplains Checklist

23 CFR 650, this regulation shall apply to all encroachments and to all actions which affect base floodplains, except for repairs made with emergency funds. Note: These studies shall be summarized in the environmental review documents prepared pursuant to 23 CFR 771.

# I. PROJECT DESCRIPTION

S-191 Emergency Bridge replacement of a damaged culvert for Roberts Swamp in Orangeburg County.

- A. Narrative Describing Purpose and Need for Project
  - a. Relevant Project History:
  - b. General Project Description and Nature of Work (attach Location and Project Map):
  - c. Major Issues and Concerns:

Culvert has been damaged from the 11/07/2024 storm (Orangeburg County Storm) and is no longer safe or functional. Route is currently closed to traffic and a detour is in place. Repair under emergency funds.

- B. Are there any floodplain(s) regulated by FEMA located in the project area? Yes \_\_\_\_\_ No ■
- C. Will the placing of fill occur within a 100-year floodplain? Yes No
- D. Will the existing profile grade be raised within the floodplain?

Yes. There is a potential grade raise but there is no FEMA floodplain.

E. If applicable, please discuss the practicability of alternatives to any longitudinal encroachments.

Longitudinal encroachments should retain within SCDOT right of way.

F. Please include a discussion of the following: commensurate with the significance of the risk or environmental impact for all alternatives containing encroachments and those actions which would support base floodplain development:

a. What are the risks associated with implementation of the action?

No risks are anticipated.

b. What are the impacts on the natural and beneficial floodplain values?

SCDOT No Impact should be achieved.

c. What measures were used to minimize floodplain impacts associated with the action?

Bridge or culvert will be designed to achieve no impact criteria.

d. Were any measures used to restore and preserve the natural and beneficial floodplain values impacted by the action?

Bridge or culvert will be designed to achieve no impact criteria.

G. Please discuss the practicability of alternatives to any significant encroachments or any support of incompatible floodplain development.

No encroachments are anticipated.

H. Were local, state, and federal water resources and floodplain management agencies consulted to determine if the proposed highway action is consistent with existing watershed and floodplain management programs and to obtain current information on development and proposed actions in the affected? Please include agency documentation.

All analysis for the project will be performed in accordance with SCDOT, FEMA, and local regulations.

Levi McLeod Digitally signed by Levi McLeod Date: 2025.01.13 14:27:09

1/13/25

SCDOT Hydraulic Engineer

Date

COUNTY: Orangeburg

DATE: 01/07/2025

ROAD #: <u>S-191</u>

STREAM CROSSING: Roberts Swamp

Purpose & Need for the Project:

S-191 Emergency Bridge replacement of a damaged culvert for Roberts Swamp in Orangeburg County. Culvert has been damaged from the 11/07/2024 storm (Orangeburg County Storm) and is no longer safe or functional. Route is currently closed to traffic and a detour is in place. Repair under emergency funds.

I. FEMA Acknowledgement

s this project lo	cated in a regulated l	Yes	✓ No	
Panel Number:	45075C0335C	Effective Date:	01/16/2004	(See Attached)

II. FEMA Floodmap Investigation

FEMA Flood Profile Sheet Number \_\_\_\_\_\_ illustrates the existing 100 year flood:
Passes under the existing low chord elevation.
Is in contact with the existing low chord elevation.
Overtops the existing bridge finished grade elevation.

III. No Rise/CLOMR Preliminary Determination

✓ Preliminary assessment indicates this project may be constructed to meet the "No-Rise" requirements. A detailed hydraulic analysis will be performed to verify this assessment.

Justification: Bridge or culvert will be placed and length designed to meet no impact criteria.

Preliminary assessmnet indicates this project may require a CLOMR/LOMR. Impacts will be determined by a detailed hydraulic analysis.

Justification:

IV. Preliminary Bridge Assessment

V.

A. Locate Existing Plans a. Bridge Plans Yes File No Sheet No (See Attack ✓ No	ied)					
b. Road Plans	ied)					
B. Historical Highwater Data a. USGS Gage						
b. SCDOT/USGS Documented Highwater Elevations Yes Results: ✓ No						
c. Existing Plans						
Field Review						
A. Existing Bridge Length <u>: 23</u> ft. Width: <u>30</u> ft. Max. span Length: <u>10</u> ft.						
Alignment: 🖌 Tangent 🔲 Curved						
Bridge Skewed: ──Yes ✓No Angle:						
End Abutment Type: <u>N/A, box culvert</u>						
Riprap on End Fills: Yes 🖌 No Condition: <u>embankment washout</u>						
Superstructure Type: <u>double barrel 10'x10' concrete box culvert</u> Substructure Type:						
Utilities Present: ✓Yes No Describe: 2" conduit attached to south side						
Debris Accumulation on Bridge: Percent Blocked Horizontally: 0% Percent Blocked Vertically: 5%						
Hydraulic Problems: Yes No Describe: Existing culvert undersized. Washout indicates backwater issues.						

V. Field Review (cont.)

Β.	Hy	draulic Features					
	a.	Scour Present:  Yes  No Location: <u>culvert undermined and settled</u>					
	b. c. d. e. f.	Distance from F.G. to Normal Water Elevation:       10 ft.         Distance from Low Steel to Normal Water Elev.:       9 ft.         Distance from F.G. to High Water Elevation:       5 ft.         Distance from Low Steel to High Water Elev.:       4 ft.         Channel Banks Stable:       Yes         V <no< td="">       Embankments washed out in flood event.         Bridge needed to span washout and establish banks.</no<>					
	q.	Soil Type: sandy					
	9.	con rypo. <u>sandy</u>					
	h.	Exposed Rock: Yes 🖌 No Location:					
<ol> <li>Give Description and Location of any structures or other property that could damaged due to additional backwater.</li> </ol>							
		none, swampy floodplain					

- C. Existing Roadway Geometry
  - a. Can the existing roadway be closed for an On-Alignment Bridge Replacement ✓Yes No

Describe:	

road currently closed due to culvert wash-out

If "yes", does the existing vertical and horizontal curves meet the proposed design speed criteria?

yes (low-volume)

If "No", will the proposed bridge be:

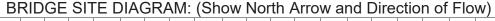
- Staged Constructed
- Replaced on New Alignment

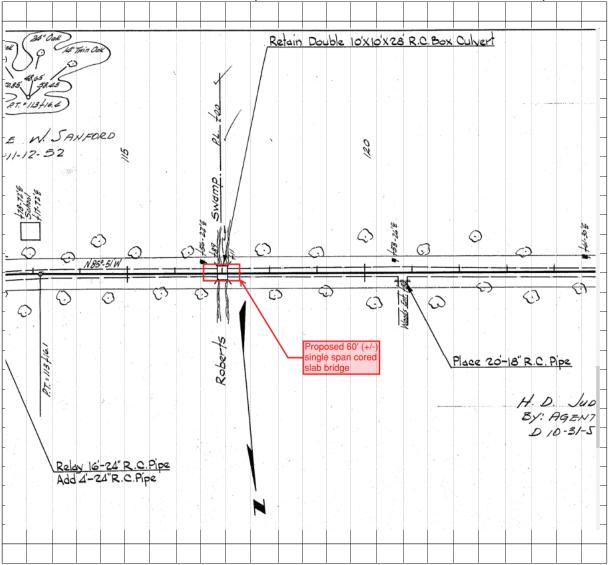
- VI. Field Review (cont.)
- A. Proposed Bridge Recommendation:

Length: <u>60</u> ft. Width: <u>30</u> ft. Elevation: <u>TBD</u> ft.

Span Arangement: <u>60-ft single span</u>

Notes: Proposed single span (50' to 70' +/-) bridge to replace washed out box culvert and embankment, based on preliminary/rough hydraulic analysis. Span length should be adjusted to meet low volume hydraulic design criteria with final/refined hydraulic modeling. Existing backwater to be reduced.





Performed By: John Caver & Levi McLeod

<b>OETAILED DAMAGE INSPECTION REPORT</b>					Report Number 38-018-NFA		
U.S. Department of Transportation (Title 23, Federal-aid Highways) Federal Highway Administration				Sheet 1	of <sup>2</sup>		
		e of Road and Milepost)				FHWA Disaster Number	
Orangeburg, S-191 N, Middlewillow Rd., MP: 3.776 (33.479324, -81.061463) *HYDRAULIC STUDY					Inspection Date	11/13/2024	
De	scription of [	Damage:				Federal-aid Route	Number
M	ajor washin	ng of the roadway causing for complete underminding and				N/A	
culvert. While the culvert structure appeared to be intact, it didn't appear the unit could be safely lifted back to grade without damaging a portion or all of the structure. Estimate written assuming the same structure would be reconstructed.				State SC	County Orangeburg		
		Cost	Estim	nate			
		Description of Work to Date	Unit	Unit Price	Quantity	Cost	
		(Equipment, Labor, and Materials)	Onic	Onici nee	Quantity	Completed	Remaining
Ŀ.							
Repair							
Emergency							
Eme							
	Method						\$0.00
		Local Forces	ontract		PE/CE		\$0.00
					Em	ergency Repair Total	

<b>OETAILED DAMAGE INSPECTION REPORT</b>					Report Number 38-018-NFA		
Federal Highway					Sheet	<sup>2</sup> of <sup>2</sup>	
Administration Location (Name of Road and Milepost)				FHWA Disaster N			
	angeburg, S-191 N, Middlewillow Rd., MP: 3.776 (33.479324, -81.0	61463)					
*HYDRAULIC STUDY					Inspection Date	11/13/2024	
Des	scription of Damage:				Federal-aid Route	Number	
	jor washing of the roadway causing for complete underminding a					N/A	
	vert. While the culvert structure appeared to be intact, it didn't ap grade without damaging a portion or all of the structure. Estimate				State	County	
	build be reconstructed.	e whiteh a	issuming the s		SC Orangeburg		
					50	Orangeburg	
		st Estim	ate				
	Description of Work to Date (Equipment, Labor, and Materials)	Unit	Unit Price	Quantity	C	Cost	
	Mobilization (per site)	EA	\$32,948.89	1		\$32,948.89	
	Traffic Control (Road Already Closed)	EA	\$3,652.84	1		\$3,652.84	
	10'X8' PCBOX CULV(M-259)FH=15'	LF	\$5,000.00	64		\$320,000.00	
	Unclassified Excavation	CY	\$84.33	5,296		\$446,611.68	
	Borrow Excavation (1001 CY and above)	CY	\$74.91	5,296		\$396,723.36	
	White 4" Temp Paint	LF	\$3.00	400		\$1,200.00	
	Yellow 4" Temp Paint	LF	\$3.00	400		\$1,200.00	
	Asphalt Base Course - includes Binder (101 tons & above)		\$297.13	160	\$47,540		
	Asphalt Surface Course - includes Binder (1-100 tons)	TON SY	\$392.79	80	\$31,423		
ы	Geotextile under Rip Rap		\$15.90	200	\$3,180		
orati	Rip-Rap		\$242.45	100	\$24,245.0		
Restoration	Permanent Cover		\$4,330.00	0	\$476		
aner							
<sup>&gt;</sup> ermanent							
Å							
					Subtotal	\$1,309,202.07	
	Local Forces		Contract PE/CE		18%	\$235,656.37	
					Right-of-Way	\$0.00	
					Perm. Repair Totals	\$1,544,858.44	
En	rironmental Assessment Recommendation				Estimated Total	\$1,544,858.44	
Red	commendation	FHWA Er	igineer			Date	
	Eligible Ineligible						
Coi	Currence	State Eng	<sup>ineer</sup> Christ Dicks	Dic	itally signed by Christopher W. ks le: 2024.11.14 10:30:52 -05'00'	Date	
Co	ncurrence	Local Agency Representative Date			Date		

Form FHWA-1547 (Rev. 4-98) (SCDOT v2024.08.07)

