



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 Route County

Part 1 - Project Description

Include the Project Name/Description

I-20 over Wateree Swamp Overflow #1 and #2 Bridge Rehabilitation

SCDOT proposes to rehabilitate two pairs of overflow bridges associated with the Wateree River on I-20 (eastbound and westbound lanes) in Kershaw County. Overflow #1 is approximately 0.5 mile northeast of the Wateree River, and Overflow #2 is just over 1 mile northeast of the river. Repairs will include, but are not limited to, deck patches, joint replacement, and crack sealing to improve superstructure conditions and extend structure longevity. Work will be completed within the existing right of way. Work on each individual bridge will take approximately 6 months, and work on each bridge may be completed independently or at the same time as work on other bridges. Temporary lane closures may be required but traffic will be maintained along I-20 for the duration of the rehabilitation.

The purpose of the project is to extend the service life of both sets of existing overflow structures by repairing structural defects. The overflow bridges were constructed in the 1970's and have experienced normal wear and tear. Repairs are necessary to maintain good condition of the structures.

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. **Reference Appendix A of the PCE Agreement for a more detailed description of each CE contained in 23 CFR 771.117.**

23 CFR 771.117(c)

23 CFR 771.117(d)

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.	Involves any unusual circumstances as described in *23 CFR Part 771.117(b)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2.	The acquisition of more than *minor amounts of temporary or permanent strips of right-of-way	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Part 3 - Thresholds Continued

3.	Involves acquisitions that result in residential or non-residential displacements	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4.	Results in capacity expansion of a roadway by adding through lanes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5.	Involves construction that would result in <u>*major traffic disruptions</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6.	Involves <u>*changes in access control</u> requiring FHWA approval	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7.	An adverse effect determination under Section 106 of the National Historic Preservation Act.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8.	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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9.	Any use of a Section 6(f) property	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
10.	Requires an Individual USACE 404 Permit	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
11.	Requires an Individual U.S. Coast Guard Permit.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
12.	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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
13.	Construction in, across, or adjacent to a river designated as a National Wild and Scenic River	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
14.	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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
15.	May affect and is likely to adversely affect a Federally listed species or designated critical habitat or projects with impacts subject to the BGEPA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
16.	Involves acquisition of land for hardship, protective purposes, or early acquisition	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
17.	Does not meet the latest Conformity Determination for air quality non-attainment areas (if applicable).	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
18.	Any known or potential <u>major</u> hazardous waste sites within the right-of-way.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
19.	Is not included in or is inconsistent with the STIP and/or TIP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. Is there a formal plan to use this parcel for a future transportation project (is it part of an approved LRTP)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

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 (eg: 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).

Additional Comments if Needed:

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 brought 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: Will McGoldrick Digitally signed by Will McGoldrick
Date: 2022.04.27 08:48:35 -04'00' Date 4-27-22

Primavera: Yes No NEPA Start Date: 2-1-22 Does the project contain commitments?: (if Yes attach to form) Yes No

Date: 04/20/2022



Project ID: P029776/P029777 County: Kershaw District: District 1 Doc Type: PCE Total # of Commitments: 8

Project Name: I-20 over Wateree Swamp Bridge Rehabilitations

The Environmental Commitment **Contractor Responsible** measures listed below **are to be included in the contract and must be implemented**. It is the responsibility of the Program Manager to make sure the Environmental Commitment **SCDOT Responsible** measures are adhered to. If there are questions regarding the commitments listed please contact:

CONTACT NAME: Jae Mattox

PHONE #: 803-737-1805

ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

General Permit

NEPA Doc Ref:

Responsibility:

CONTRACTOR

Impacts to jurisdictional waters will be permitted under a Department of the Army Section 404 permit from the U.S. Army Corps of Engineers. Based on preliminary design, it is anticipated that the proposed project would be permitted under SCDOT's General Permit (GP). The required mitigation for this project will be determined through consultation with the USACE and other resource agencies.

Special Provision

Water Quality

NEPA Doc Ref:

Responsibility:

CONTRACTOR

The contractor will be required to minimize possible water quality impacts through implementation of BMPs, reflecting policies contained in 23 CFR 650B and the Department's Supplemental Specification on Erosion Control Measures (latest edition) and Supplemental Technical Specifications on Seeding (latest edition). Other measures including seeding, silt fences, sediment basins, etc. as appropriate will be implemented during construction to minimize impacts to water quality.

Special Provision

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: P029776/P029777

SCDOT
NEPA ENVIRONMENTAL COMMITMENTS
FORM



ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

Floodplains

NEPA Doc Ref:

Responsibility:

CONTRACTOR

The Engineer of Record will send a set of final plans and request for floodplain management compliance to the local County Floodplain Administrator prior to the project letting date.

Special Provision

Migratory Bird Treaty Act

NEPA Doc Ref:

Responsibility:

CONTRACTOR

The federal Migratory Bird Treaty Act, 16 USC § 703-711, states that it is unlawful to pursue, hunt, take, capture or kill; attempt to take, capture or kill; possess, offer to or sell, barter, purchase, deliver or cause to be shipped, exported, imported, transported, carried or received any migratory bird, part, nest, egg or product, manufactured or not. The South Carolina Department of Transportation (SCDOT) will comply with the Migratory Bird Treaty Act of 1918 in regard to the avoidance of taking of individual migratory birds and the destruction of their active nests.

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

Cultural Resources

NEPA Doc Ref:

Responsibility:

CONTRACTOR

The contractor and subcontractors must notify their workers to watch for the presence of any prehistoric or historic remains, including but not limited to arrowheads, pottery, ceramics, flakes, bones, graves, gravestones, or brick concentrations during the construction phase of the project, if any such remains are encountered, the Resident Construction Engineer (RCE) will be immediately notified and all work in the vicinity of the discovered materials and site work shall cease until the SCDOT Archaeologist directs otherwise.

Special Provision

Project ID: P029776/P029777

SCDOT
NEPA ENVIRONMENTAL COMMITMENTS
FORM



ENVIRONMENTAL COMMITMENTS FOR THE PROJECT

USTs/Hazardous Materials

NEPA Doc Ref:

Responsibility:

CONTRACTOR

If avoidance of hazardous materials is not a viable alternative and soils that appear to be contaminated are encountered during construction, the South Carolina Department of Health and Environmental Control (SCDHEC) will be informed. Hazardous materials will be tested and removed and/or treated in accordance with the United States Environmental Protection Agency and the SCDHEC requirements, if necessary.

Special Provision

Lead-Based Paint

NEPA Doc Ref:

Responsibility:

CONTRACTOR

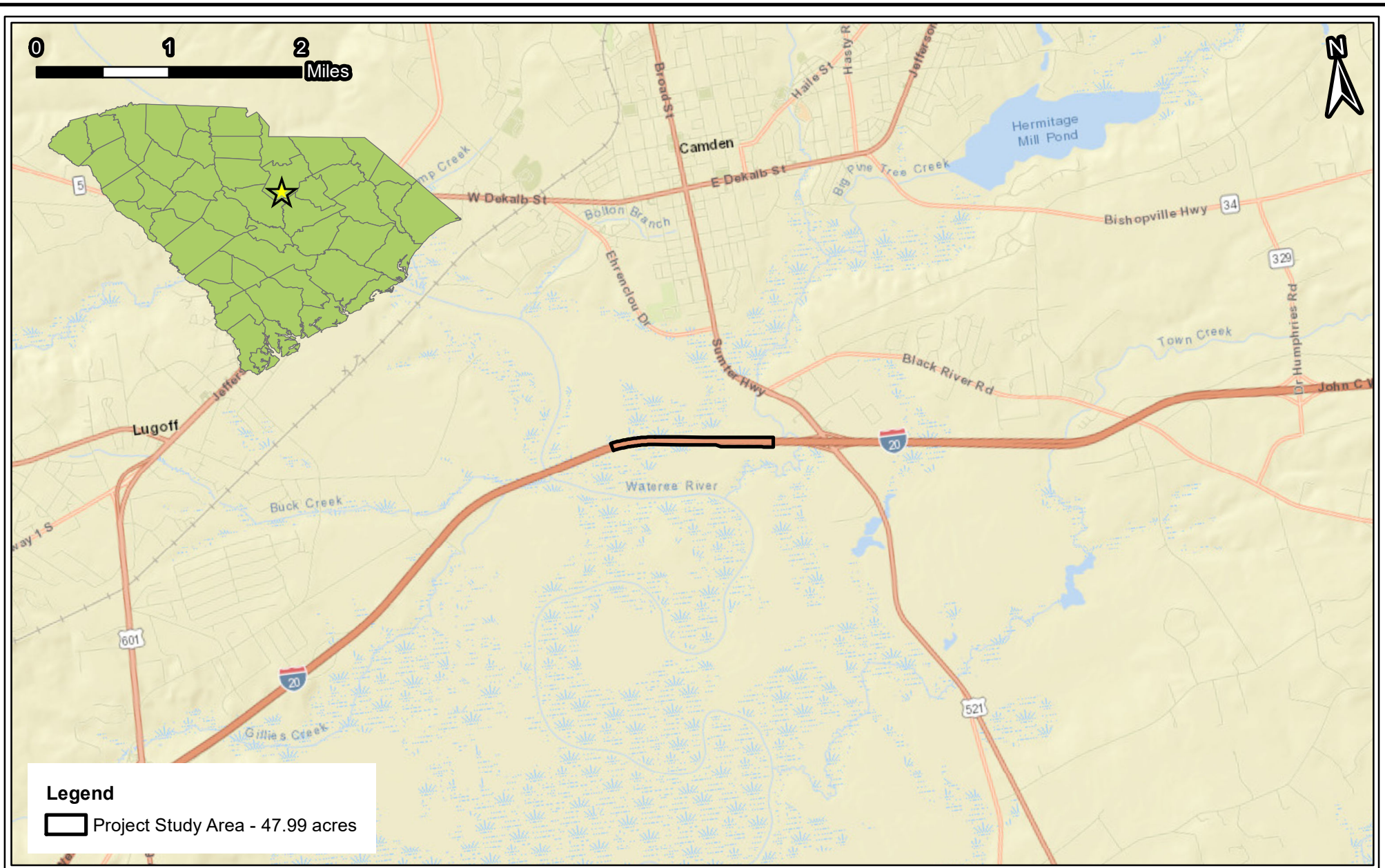
The existing structures shall be removed and disposed of by the Contractor in accordance with Subsection 202.4.2 of the Standard Specifications. The Contractor's attention is called to the fact that this project may require removal and disposal of structural components containing lead-based paints. Removal and disposal of structural components containing lead-based paints shall comply with all applicable Federal, State, and Local requirements for lead as waste, lead in air, lead in water, lead in soil, and worker health and safety.

Special Provision

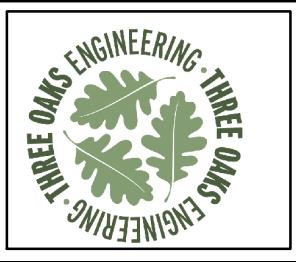
NEPA Doc Ref:

Responsibility:

Special Provision



Legend
 [Green outline] Project Study Area - 47.99 acres



**I-20 over Wateree River:
 Overflow Bridges Rehabilitation**

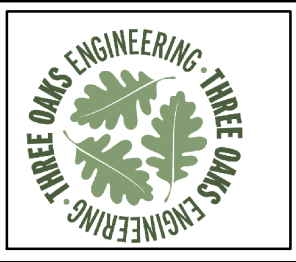
Kershaw County, South Carolina

Date: December 2, 2021	
Scale: 1 in = 1 miles	
Job No.: 21-003	
Drawn By: ZCB	Checked By: WCB

**Location
 Map**



Legend
 [Black Outline] Project Study Area - 47.99 acres



**I-20 over Wateree River:
 Overflow Bridges Rehabilitation**

Kershaw County, South Carolina

Date: December 2, 2021	
Scale: 1 in = 750 ft	
Job No.: 21-003	
Drawn By: ZCB	Checked By: WCB

**Aerial
 Imagery**

Date: 02/2/2022

PERMIT DETERMINATION

FROM Gordon Murphy COMPANY Three Oaks Engineering

CONTACT INFO (phone and/or email) (803) 447-0547 gordon.murphy@threeoaksengineering.com

SCDOT PROJECT ENGINEER Brooks Bickley

TO Will McGoldrick - RPG 1 Permits Coordinator

Project Description I-20 Wateree River Overflow Bridge Rehab

Route or Road No. I-20 County Kershaw

CONST. PIN P029776 OTHER PINS or STRUCTURE # P029777

RESPONSE:

It has been determined that no permits are required because:

The following permit(s) is/are necessary:
(Please check which type(s) of permit the project will need)

USACE Permit GP IP 401 JD

OCRM Permit CAP CZC

Navigable SCDHEC NAVGP – if checked a USCG and/or USACE navigable permit may also be required, but will be determined during the NEPA and Permitting stages.

Other Permitting requirement is dependent on construction access method.

Water Classification: FW *Print and attach the SCDHEC water quality report*

303(d) listed no yes, for * _____

TMDL developed no yes, for * _____

*List all that apply using the SCDHEC abbreviations

Comments: _____

The determination above was based on the most recently available information at the time. This is a preliminary determination and is subject to change if the design of the project is modified.

Gordon Murphy Digitally signed by Gordon
Murphy
Date: 2022.02.02 12:37:20 -05'00'
Biologist, SCDOT/Consultant

2/2/2022
Date



Watershed and Water Quality Information

General Information

Applicant Name: SCDOT	Permit Type: Construction
Address: Location by map click	Latitude/Longitude: 34.217451 / -80.629199
MS4 Designation: Not in designated area	Monitoring Station:
Within Coastal Critical Area: No	Water Classification (Provisional):
Waterbody Name:	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	pH	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

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

Parameters to be addressed (those not supporting standards)

Fish Consumption Advisory

Waters of Concern (WOC)

TMDL Information - TMDL Parameters to be addressed

In TMDL Watershed: No	TMDL Site:
TMDL Report No:	TMDL Parameter:
TMDL Document Link:	

National Flood Hazard Layer FIRMette



80°37'31"W 34°13'26"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/12/2022 at 9:30 AM** and does not reflect changes or amendments subsequent to this date and 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.

National Flood Hazard Layer FIRMMette



80°36'44"W 34°13'21"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000
 Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/22/2022 at 12:36 PM and does not reflect changes or amendments subsequent to this date and 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.

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

I-20 over Wateree Swamp Overflow #1 and #2 Bridge Rehabilitation

The South Carolina Department of Transportation (SCDOT) proposes to rehabilitate two pairs of overflow bridges associated with the Wateree River on I-20 (eastbound and westbound lanes) in Kershaw County. Overflow #1 is approximately 0.5 mile northeast of the Wateree River, and Overflow #2 is just over 1 mile northeast of the river. The project study area includes regulatory floodway Zones AE and X (FIRM 45055C0453F, eff. 9/28/2018).

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:

Purpose and Need: The purpose of the project is to rehabilitate structurally deficient bridges. Overflow #1 bridges were constructed in 1970 and have a sufficiency rating of 63.4. Overflow #2 bridges were constructed in 1970 and have a sufficiency rating of 63.2.

Nature of Work:

The rehabilitation work will primarily occur on the bridge superstructures, specifically the decks, with a few repairs made to the bridge substructures. No work will be done on the bridge foundations and no excavation is anticipated. The construction crews will work with the existing right of way and may clear the overgrowth from under the current bridge footprint to access the bottom side of the bridge deck. The rehabilitation work will include deck joint replacement, crack repair, spall repair and enlargement of the bent caps for a few of the bridge pile bents. The wing walls of the abutment will be replaced and there is a potential to replace the approach slab for the bridges.

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?

No

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

N/A

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 baseflood impacts; no encroachment.

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

No impacts to floodplain.

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

N/A

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

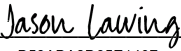
N/A

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

N/A

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.

N/A

DocuSigned by:

B53ABA2D65E1407...
Hydraulic Engineer

2/4/2022
Date

SECTION 5.0 EFFECTS ANALYSIS

The following section contains discussion about potential effects to specific species. The USFWS (1998) defines “take” as: to harass, harm, pursue, hunt, shoot, wound, kill, trap capture, or collect or attempt to engage in any such conduct. [ESA §3(19)] Harm is further defined by USFWS to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns such as breeding, feeding, or sheltering. Harass is defined by USFWS as actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. [50 CFR §17.3]

The initial evaluation for the presence of listed species in the PSA was based on the presence or absence of species-specific suitable habitat. Additionally, online databases such as SC Department of Natural Resources’ (SCDNR) SC Natural Heritage Species Reviewer (SCDNR 2022) was utilized to identify previous observations of listed species within and adjacent to the PSA. A review of available data for an area within a 3-mile radius of the proposed project was conducted to identify known occurrences of listed protected species.

5.1 Birds

5.1.1 Bald eagle (*Haliaeetus leucocephalus*) – BGEPA

The Wateree River is suitable foraging habitat for bald eagles; however, no nests or eagles were observed within or adjacent to the overflow bridge rehabilitation PSA. According to SCDNR’s SC Natural Heritage Species Reviewer, there is a nest located approximately 6 miles northwest of the PSA, near the bank of the Wateree River.

Effect Determination

Effect conclusions for the bald eagle are not required under the ESA. However, the project is not anticipated to result in the mortality of any bald eagles or limit the ability of the species to adequately breed, feed, or shelter.

5.1.2 Red-cockaded woodpecker (*Picoides borealis*) – Threatened

Suitable habitat for RCW was not identified within or adjacent to the PSA. According to SCDNR’s SC Natural Heritage Species Reviewer, the closest known occurrence of RCW is approximately 4 miles north of the eastern terminus of the PSA at on private property near the Camden Reservoir (SCDNR 2022).

Effect Determination

While loblolly pines are present within the PSA, no suitable nesting or foraging habitat was observed during the field surveys. Therefore, the proposed project will have **no effect** on RCW.

5.1.3 Migratory Birds

No nests were observed on the overflow bridges during the June 4 and 17, 2021 field surveys; however, they should be surveyed again prior to beginning construction.

Effect Determination

By implementing SCDOT's standard migratory bird mitigation measures presented in Section 6, Conservation Measures, it is anticipated that the proposed project will not result in the mortality of any migratory birds.

5.2 Fish

Shortnose sturgeon (*Acipenser brevirostrum*) – Endangered

Suitable habitat for the Shortnose sturgeon was not identified within or adjacent to the PSA. The sturgeon has been documented in the Wateree River located approximately 0.3-mile south of the PSA, at the closest point. No direct paths of effects to the species were identified during the field surveys.

Effect Determination

It is anticipated that project will have **no effect** on the Shortnose sturgeon.

5.3 Insects

Monarch butterfly (*Danaus plexippus*) – Candidate

Adult foraging habitat occurs in the road ROW where wildflowers were observed. However, no milkweed species were identified within the PSA. The SC Natural Heritage Species Reviewer does not indicate any known occurrences within a 3-mile radius of the PSA.

Effect Determination

Effect conclusions for the monarch butterfly is not required under the ESA. However, if the butterfly is upgraded to threatened or endangered prior to construction of the project, additional field surveys and coordination with USFWS may be required. The project is not anticipated to result in the mortality of any monarchs or limit the ability of the species to adequately breed, feed, or shelter.

5.4 Mollusks

Carolina heelsplitter (*Lasmigona decorata*) – Endangered

Suitable habitat for the Carolina heelsplitter was not observed within the PSA. According to SCDNR's online SC Natural Heritage Species Reviewer, there are no known occurrences within a 3-mile radius of the PSA.

Effect Determination

It is anticipated that project will have **no effect** on the Carolina heelsplitter.

5.5 Plants

Michaux's sumac (*Rhus michauxii*) – Endangered

Suitable habitat for the Michaux's sumac was not observed within the PSA. According to SCDNR's online SC Natural Heritage Species Reviewer, there are no known occurrences within a 3-mile radius of the PSA.

Effect Determination

It is anticipated that project will have **no effect** on the Michaux's sumac.

April 4, 2022

Ms. Elizabeth Johnson
Director, Historical Services, D-SHPO
State Historic Preservation Office
SC Department of Archives & History
8301 Parklane Road
Columbia, SC 29223

RE: Phase I Cultural Resources Survey of the I-20 over Wateree River Bridge Replacements Study Area, Kershaw County, South Carolina.

Dear Ms. Johnson:

Please find attached a copy of the above referenced report that describes cultural resources investigations conducted for proposed bridge replacements along I-20 over the Wateree River in **Kershaw County**, South Carolina.

The South Carolina Department of Transportation (SCDOT) has proposed rehabilitating and replacing several bridges along the I-20 over Wateree River corridor. The project corridor measures 2.8 miles in length and is limited to the existing right-of-way (ROW). The Area of Potential Effects (APE) includes the project corridor and a viewshed extending 300 feet from the existing ROW. The archaeological survey examined the project corridor, while the architectural history survey included the entire APE.

Two archaeological sites were identified in the project corridor. The first, site 38KE1191/1192, consists of both non-diagnostic precontact and late eighteenth to early nineteenth historic artifact scatters, as well as potential unmarked graves from a cemetery mapped within the project area. The artifact scatters have little integrity and little potential inside the project area to produce important archaeological data. Additional work is necessary to complete an assessment of the site's cemetery component and the unexamined areas outside of the project area. Second-hand testimony indicates that four graves located within the project corridor were removed from the cemetery in 1968 or 1969. However, no official documentation of their removal was found at the time of survey. The size of the cemetery shown on the 1968 Engineer's drawing is considerably larger than the area four burials require. It is possible that unidentified interments remain within and next to the project corridor. **Avoidance of site 38KE1191/1192 is recommended. If avoidance is not feasible additional work is recommended to determine if unidentified graves are present within the project area.** The second site, 38KE1193, is a heavily disturbed, mixed precontact and historic period artifact scatter. This resource is recommended as **not eligible** for the NRHP. Two isolated finds with precontact artifacts were also identified. Since isolated finds fail to meet the minimum requirements for classification as an archaeological site they are **not eligible** for listing on the NRHP. No new aboveground resources were documented.

An underwater archaeological survey was conducted that collected magnetic and acoustic remote sensing data. A visual investigation was also conducted along both shorelines within the APE. No potentially significant remote sensing targets or visible signs of potential submerged resources were documented. No additional underwater investigations are recommended.



Based on the results of the background research and field investigations, the Department has determined that **no historic properties will be affected** by the proposed undertaking. **Additional investigations to determine the presence of unidentified graves at archaeological site 38KE1191/1192 are recommended if avoidance of this site is not feasible.**

Per the terms of the Section 106 Programmatic Agreement executed on October 6, 2017, the Department is providing this information on behalf of the Federal Highway Administration. It is requested that you review the enclosed material, and, if appropriate, indicate your concurrence in the Department's findings. Please respond within 30 days if you have any objections or if you have need of additional information.

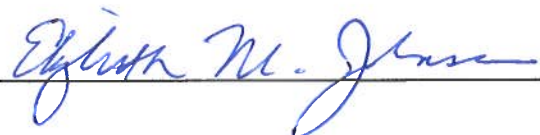
Sincerely,



Tracy Martin
Chief Archaeologist

TAM:tam
Enclosures: Cultural resources survey report

I ~~(do not)~~ concur in the above determination.

Signed:  Date: 4/4/2022

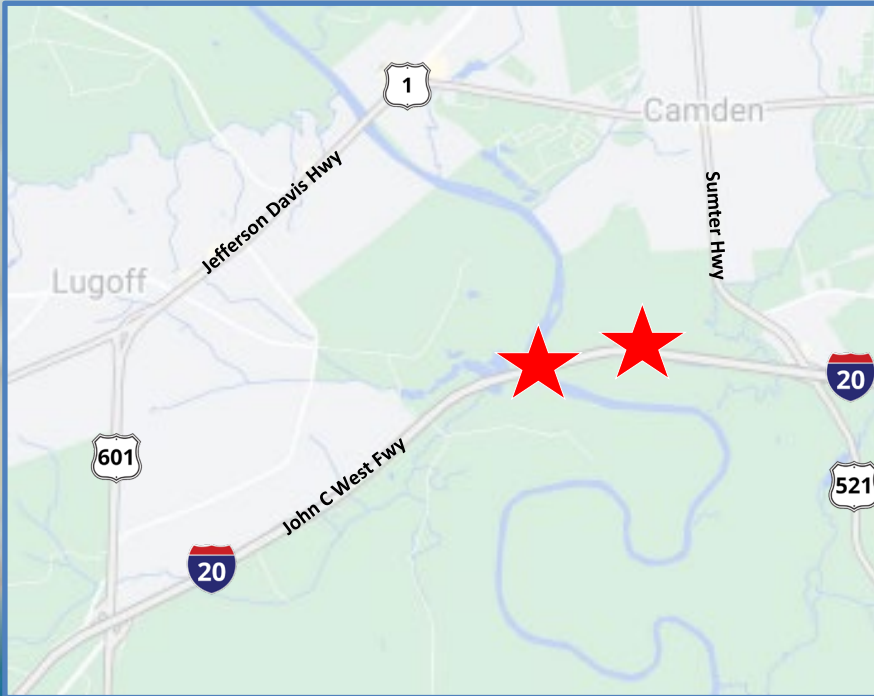
cc: Shane Belcher, FHWA
Bryan Printup, Tuscarora Nation
Russell Townsend, Eastern Band of Cherokee Indians
Stephen J. Yerka, Eastern Band of Cherokee Indians
Elizabeth Toombs, Cherokee Nation
LeeAnne Wendt, Muscogee (Creek) Nation
Karen Pritchett, United Keetoowah
Charlotte Wolfe, United Keetoowah

cc: Wenonah G. Haire, Catawba Nation
Keith Derting, SCIAA



PUBLIC ANNOUNCEMENT

I-20 Bridge Repairs over the Wateree River and Overflows in Kershaw County



The South Carolina Department of Transportation (SCDOT) proposes to repair three sets of bridges (eastbound and westbound) along I-20 over and near the Wateree River.

SCDOT invites you to review the proposed project and provide your comments. Please visit the project website below for more information.

www.scdotgis.online/I20overWateree

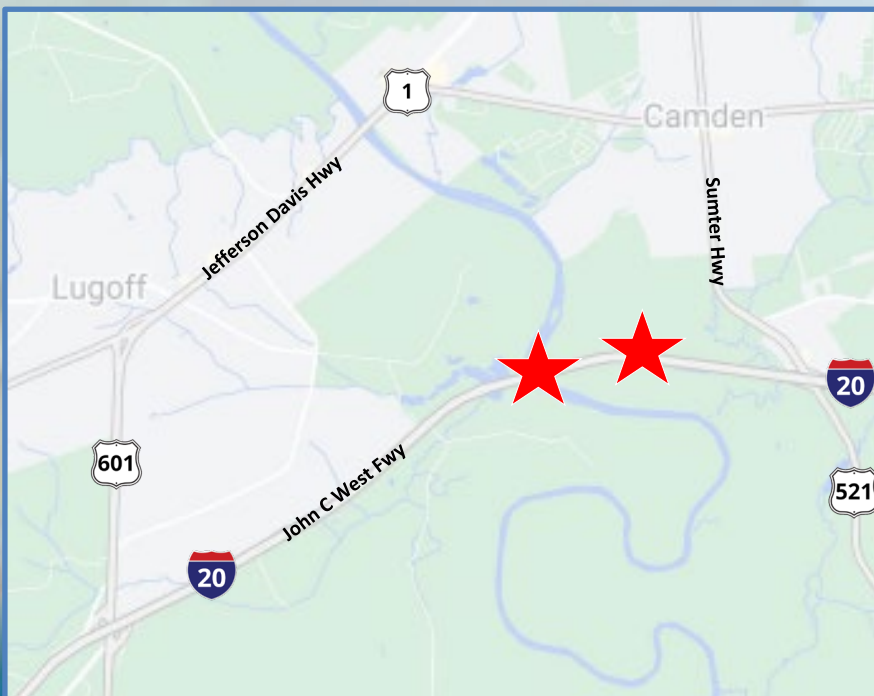
SCDOT will accept official public comments through (04/04/22).

Questions or concerns, please contact the SCDOT Project Manager: Jae Mattox at (803) 737-1805 or MattoxJH@scdot.org.



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ENVIRONMENTAL SERVICES OFFICE
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