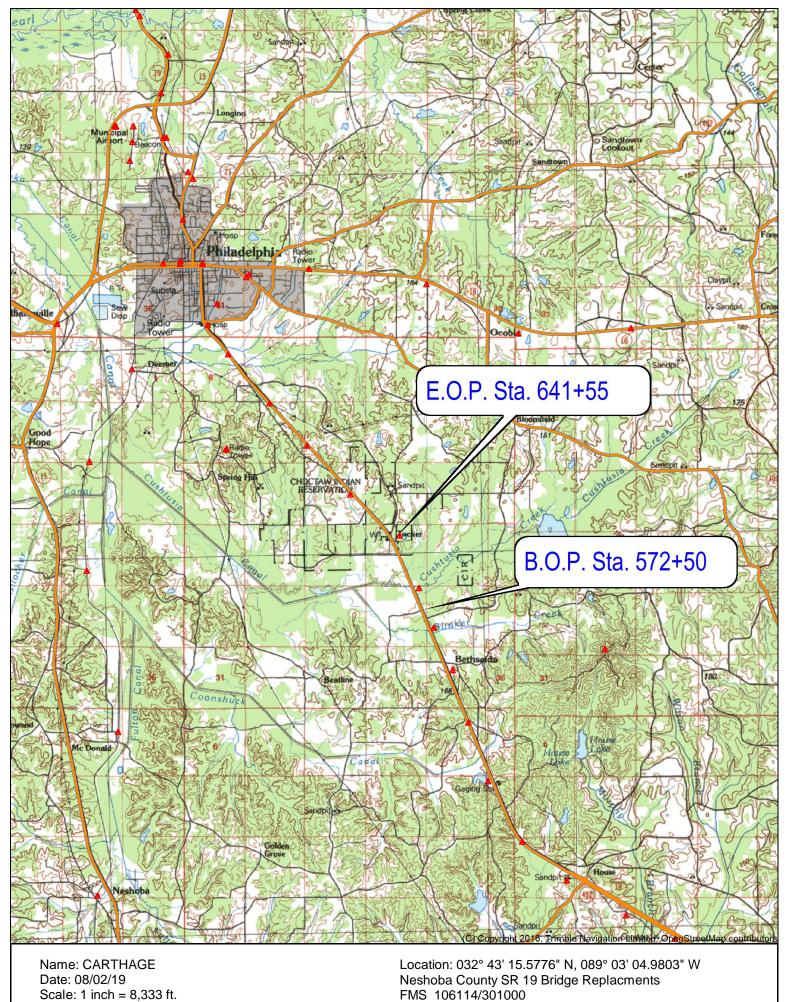
Neshoba 19 BR-0026-01(078); 106114-301000

Location Map



FMS 106114/301000

Table of Impacts

 Table 1. Wetland Data Point Summary Table

			,	*** *					
Data Point#	Wetland ID#	Site #	Latitude	Longitude*	Station	Section-Township- Range	Total Area (Acres)	Cowardin Classification	Impact**
W1	W1	WK4	32.693672	-89.046163	595+00 L	27-10N-12E	0.21	PEM	none
W2	W2	WK4	32.696340	-89.047426	603+00 to 609+00 L	22-10N-12E	0.45	PSS	none
W3	W3	WK4	32.696638	-89.046948	605+00 to 608+50 R	22-10N-12E	3.88	PFO	1.01 acres Permanent fill; 0.67 acres temporary fill
W4	W4	WK4	32.698078	-89.047758	610+00 to 615+00 R	22-10N-12E	0.84	PFO	0.84 acres Permanent fill
W5	W5	WK4	32.697947	-89.048307	612+00 L	22-10N-12E	0.04	PEM	none
W6	W6	WK4	32.699722	-89.048459	618+00 R	22-10N-12E	0.58	PFO	0.58 acre Permanent fill
W7	W7	WK4,5	32.701142	-89.049244	621+00 to 626+00 R	22-10N-12E	1.16	PFO	1.09 acres Permanent fill; 0.07 acres temporary fill

DP- Data point- collection point for sampling data for wetland assessment

W- Wetland- areas described as wetlands

PFO- Palustrine Forested

PEM – Palustrine Emergent

PSS – Palustrine Scrub-Shrub

^{**}Wetland Impacts are based on preliminary slope stakes boundaries

Wetland Summary:	Total	Permanent Fill	Temporary Fill	
	Present (acres)	(acres)	(acres)	
Forested:	6.46	3.52	0.74	
Scrub-Shrub:	0.45	0	0	
Emergent:	0.25	0	0	
Total	7.16	3.52	0.74	

Station Numbers (Sta.) are approximate
*Latitude and Longitude in Decimal Degrees, NAD 83, State Plane – The location of the Data Point

Table 2. Other Water Assessment Table*

CA#	OW ID#	Site #	Latitude*	Longitude*	Section- Township- Range	Sta.	Туре	Length in Project Area (feet)	Channel Width (feet)	Name	Impact**
1	OW1	WK3,4	32.693082	-89.045497	27-10N-12E	589+00 to 592+00 R	E	960	4	Unnamed	550 ft – Channel fill and realignment
2	OW2	WK4	32.693162	-89.045605	27-10N-12E	591+82	E	506	6	Cushtusia Creek Relief	Remove existing Box Culvert 52.0; Replace with single 100 ft span bridge on new alignment; 44 ft new shading
3	OW3	WK4	32.694927	-89.046080	27-10N-12E	600+00	Р	430	12	Cushtusia Creek	Remove existing bridge 52.1; Replace with 360 ft 3-span bridge in new alignment; 44 ft new shading
4	OW4	WK4	32.697393	-89.047387	22-10N-12E	609+00	E	498	8	Cushtusia Creek Relief	Remove existing Box Culvert 52.3; Replace with single 100 ft span bridge on new alignment; 44 ft new shading
5	OW4A	WK4	32.697393	-89.047387	22-10N-12E	606+50 to 612+50 R	Е	800	4	Unnamed	600 ft – Channel fill and realignment
5	OW5	WK4	32.699047	-89.048172	22-10N-12E	615+50	E	685	6	Cushtusia Creek Relief	Remove existing Box Culvert 52.4; Replace with single 100 ft span bridge on new alignment; 44 ft new shading
6	OW6	WK4	32.699590	-89.048186	22-10N-12E	615+00 to 618+50 R	Е	824	6	Unnamed	359 ft – Channel fill and realignment
7	OW7	WK4	32.700199	-89.048686	22-10N-12E	620+00	Е	671	6	Unnamed	Remove existing Box Culvert 52.5; Replace with single 100 ft span bridge on new alignment; 44 ft new shading

CA- Channel Assessment point location

OW- Other Water

Type:

P-Perennial

I-Intermittent

E-Ephemeral

Station numbers (Sta.) are approximate

CA Summary	Total Present (ft)	New Bridge Width Shade/ Clear (ft)	Culvert/ Pipe (ft)	Relocate/ Fill (ft)
Perennial:	430	44	0	0
Intermittent:	0	0	0	0
Ephemeral:	4,944	176	0	1,509
Total (P.I.E.)	5,374	220	0	1,509

Table 3. Pond Assessment Table

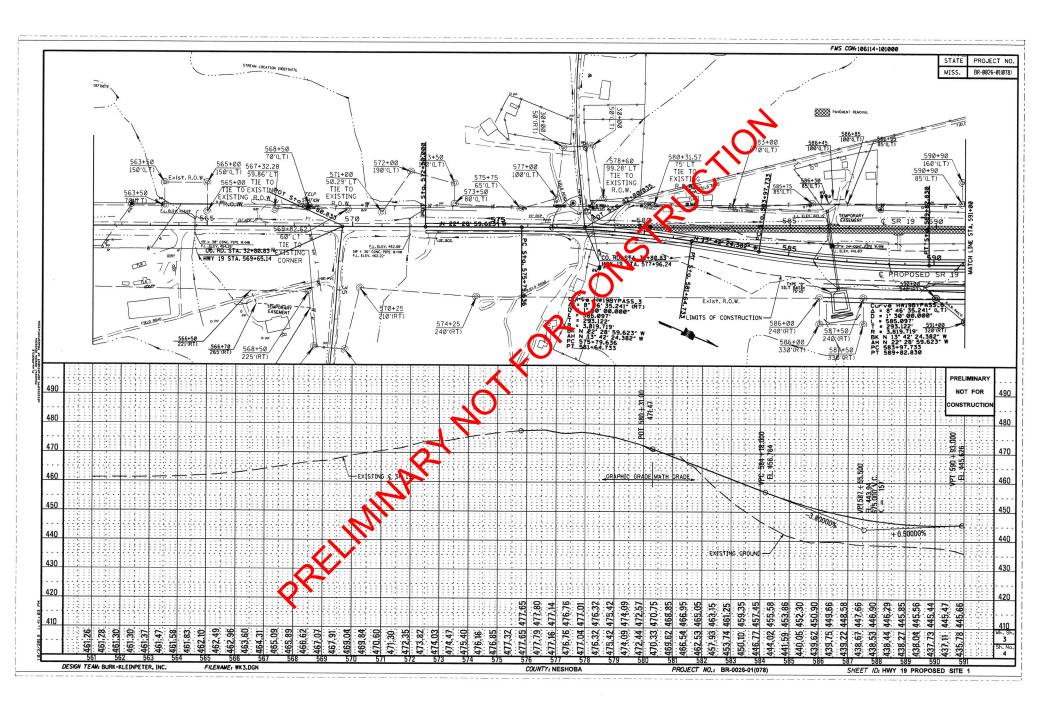
Pond ID#	Latitude	Longitude	Sta.	Section- Township- Range	Size (Acres)	Impact
1	32.695659	89.046553	798+00- 803+00	22-10N-12E	2.23	Manmade; Drain and Fill

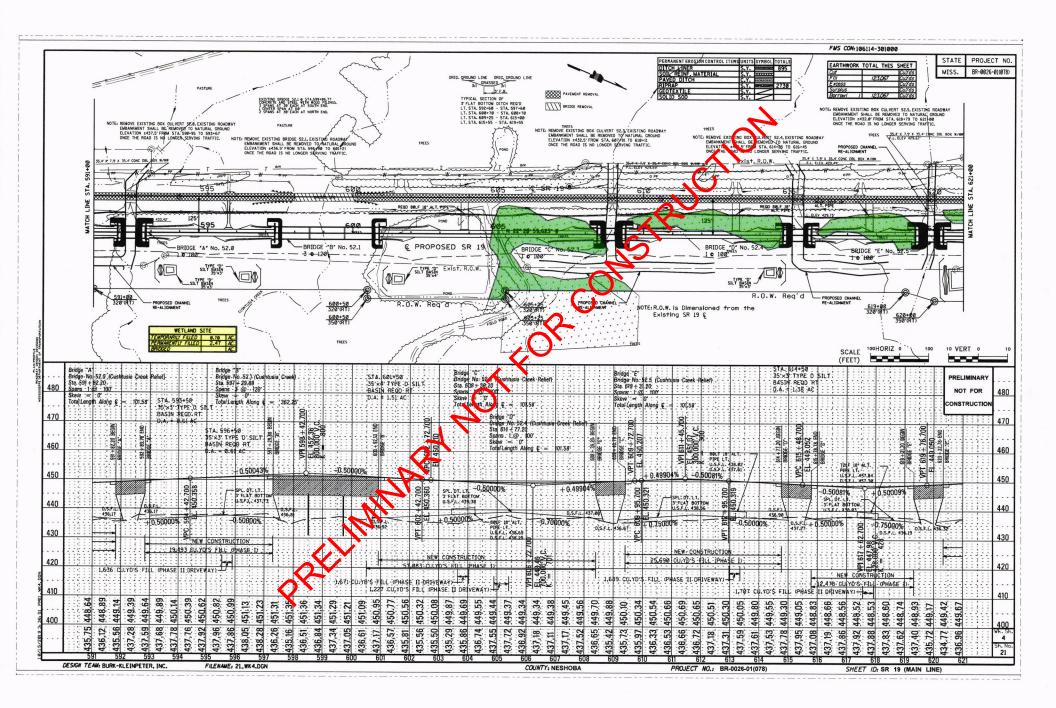
Pond Summary: 2.23 acres Total

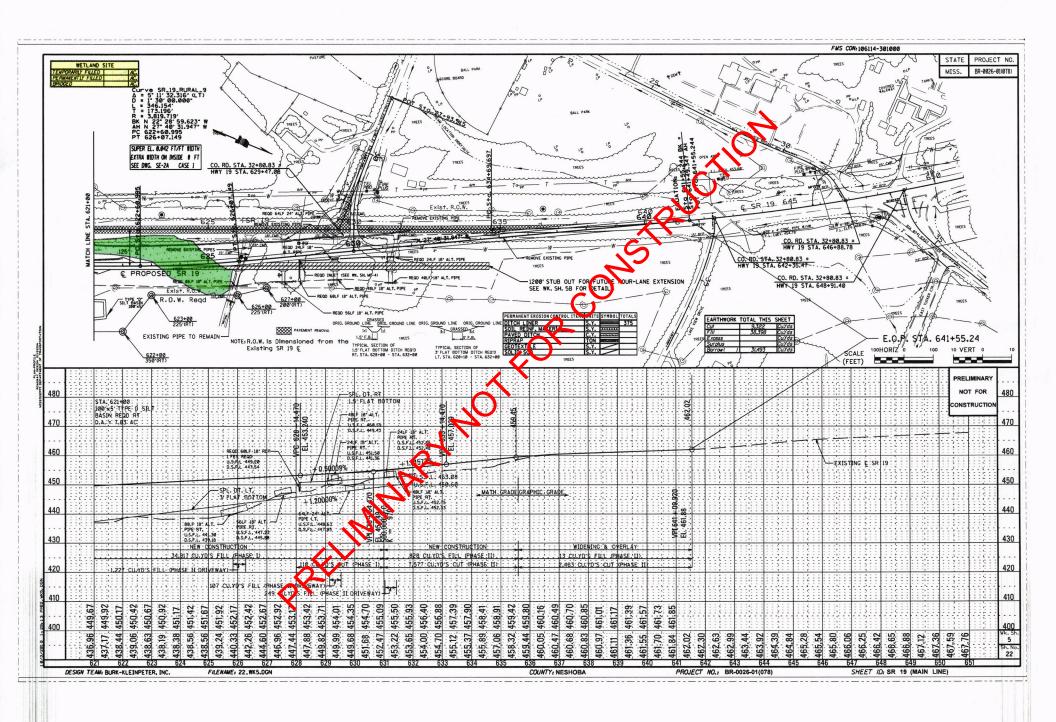
^{*}Latitude and Longitude in Decimal Degrees, NAD 83, State Plane – The location of the CA Form Data Point
**Impacts are based on preliminary slope stakes boundaries

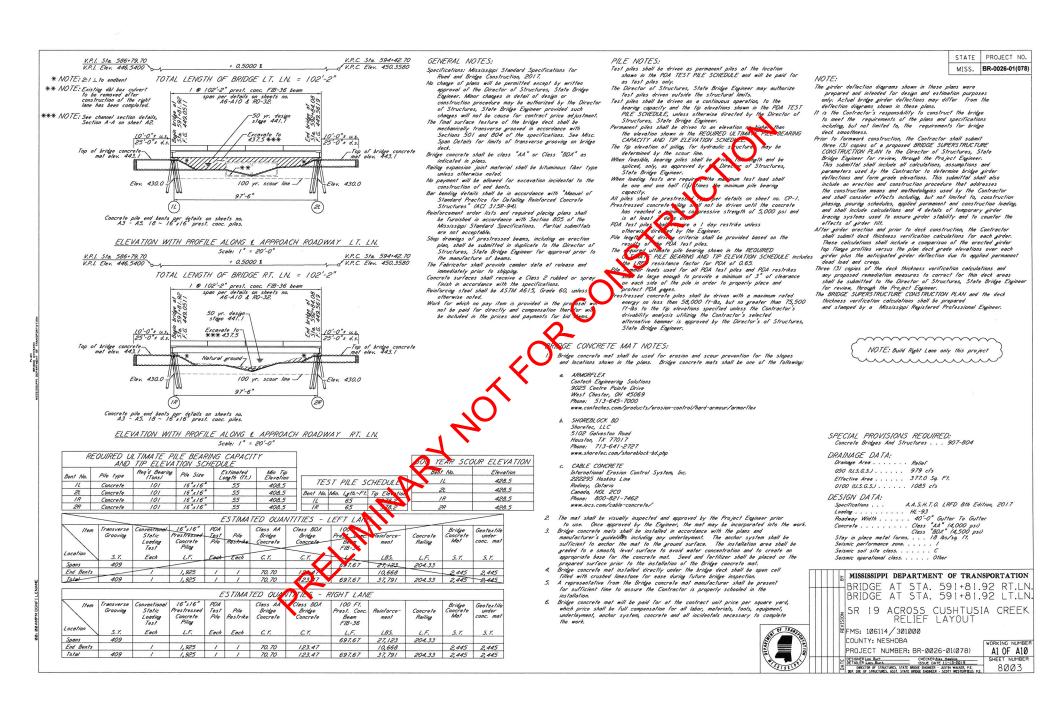
Roadway Plans

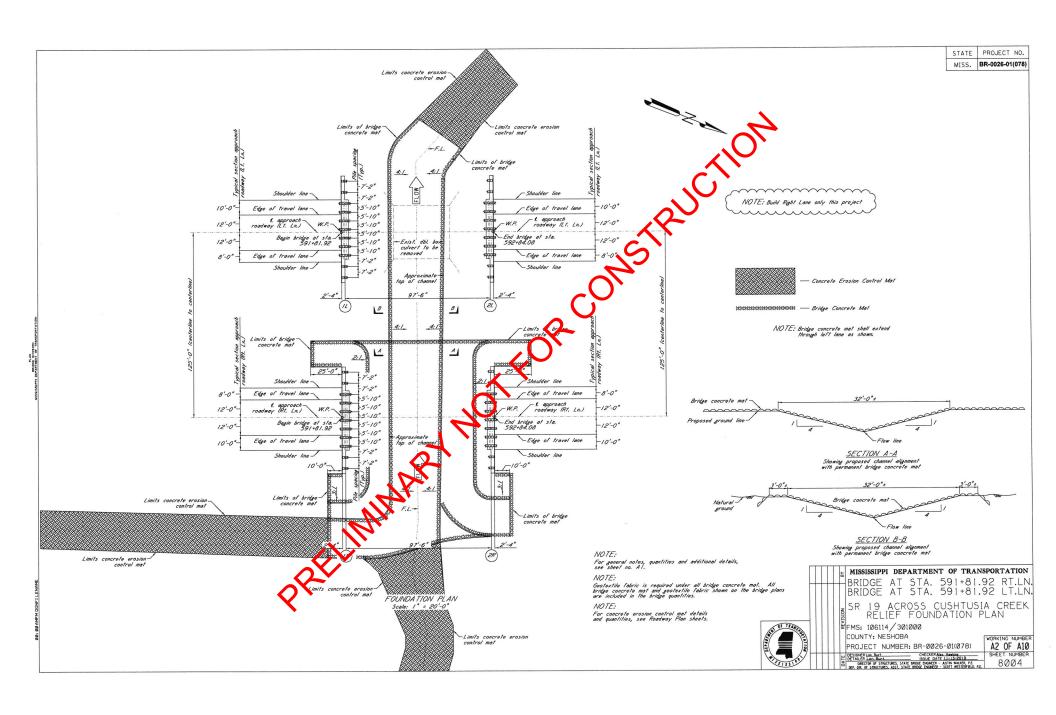
		P.E. SP-0026-01(078) 106114/101000
THIS	STATE OF MISSISSIPPI MISSISSIPPI DEPARTMENT OF TRANSPORTATION	R.O.W. FMS 106114201000 STATE PROJECT NUMBER SHE NN
ROADWAY	STATE HIGHWAY STATE PROJECT NO. BR-0026-01(0 SR 19 BRIDGE REPLACEMENTS (BRIDGES No. 52.0, 52.1, 52.3, 52.4, & 52.5)	R.O.W. PLANS TO SMD 4-12-2017 NAIL R.O.W. 5-11-2017 R.O.W. ROYSION POPULAR RO
### BRIDGE STRUCTURES REO'D. A Bridge No. 52.0 (Cushtusia Creek Refelf) Sta. 591 + 82.20 Spans 1 ⊕ 100' Skew = 0' Total Length Along € = 101.56' B Bridge No. 52.1 (Cushtusia Creek) Sta. 597 + 29.88 Spans 3 ⊕ 120' Skew = 0'	B.O.P. STA 572 + 50.00 SCALES PLAN PROFILE { HOR. 1 IN.= 100 FT. 1 IN.= 100 FT. 1 IN.= 100 FT. 1 IN.= 100 FT. 1 IN.= 1000 FT. 1 IN.= 5000 F	S CON# 106114/301000 STATE MAP NOTE INDICATES APPROXIMATE LOCATION OF PROJECT. LAT. 32'41 53.35" N LOW, 89'92' 52.56" (APPROX. MIDDLE OF PROJECT)
Total Length Along € = 362,25° © Bridge No. 5.2.3 (Cushtusia Creek Relief) Sta. 608+39.20 Spans 1 @ 100° Skew = 0° Total Length Along € = 101.58° ® Bridge No. 5.2.4 (Cushtusia Creek Relief) Sta. 614+77.20 Spans 1 @ 100° Skew = 0° Total Length Along € = 101.58° © Bridge No. 5.2.5 (Cushtusia Creek Relief) Sta. 619+31.20 Spans 1 @ 100° Skew = 0° Total Length Along € = 101.58°	to Meridian The second of the	DESIGN CONTROL
BOX BRIDGES REO'D. NONE GPS CONTROL NOTES ORIZONTAL DATUM: NAD 83933 MS EAST ZONE (US SI		STORMANTER PERMIT Y MOURIED, DAIL AURITHO PER MOURIED, DAIL SERVICE S ROBBING DAILS A STORMANT DE SUMMITTED BY N NO STORMANTER PERMIT ROUBED (<) ACT
DRIZONTAL MONUMENT NORTH EAS 4" REBAR 1178665.7460 905688	EQUATIONS EXCEPTIONS	IONS
IGS DISK 1178052.1790 906390		P S & E DATE:
VERTICAL DATUM: NAVD 88 (US SURVEY FEET VERTICAL MONUMENT	AGE LENGTH OF PROJECT (GROSS) 1.25 ML 2023	PRELIMINARY NOT FOR CONSTRUCTION
		NESHOBA COUNTY

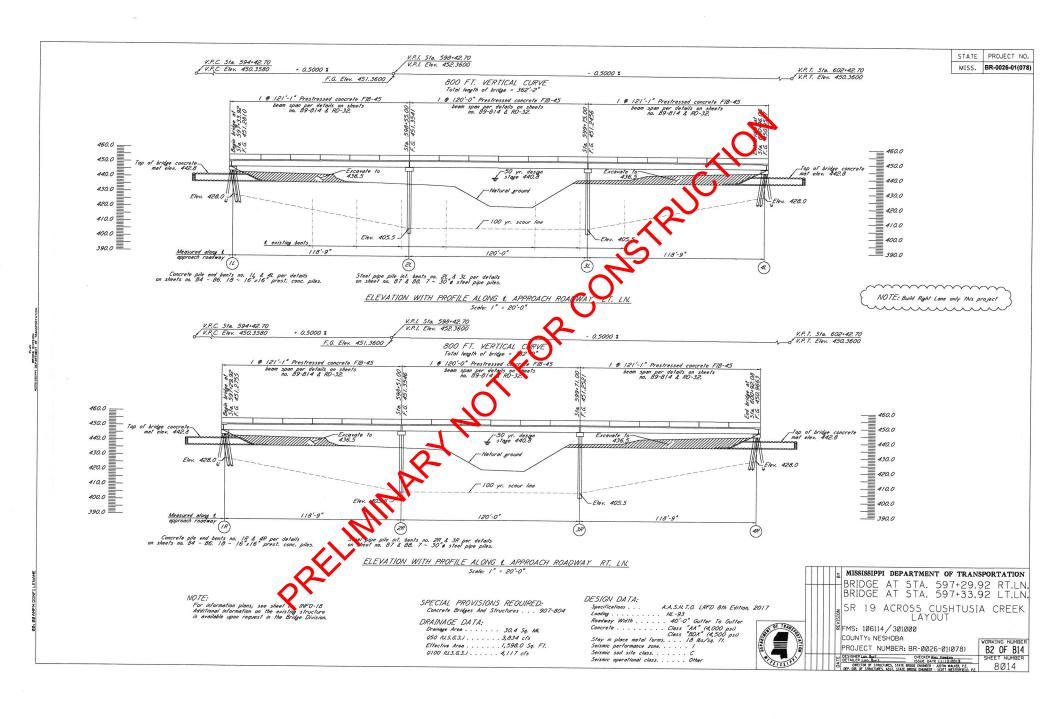


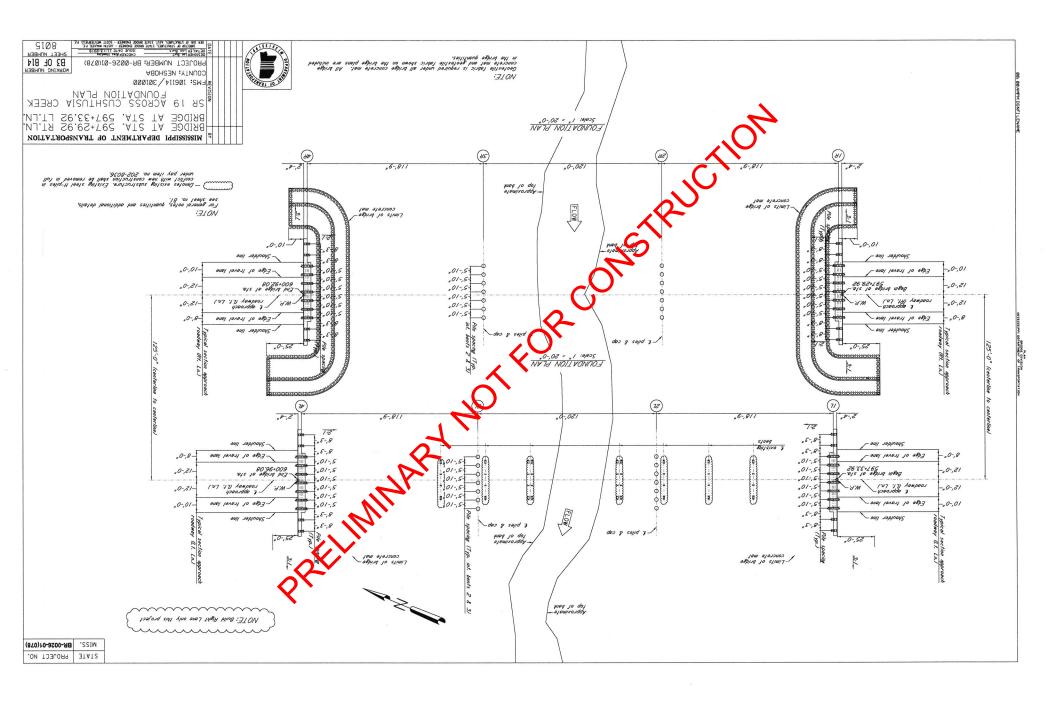


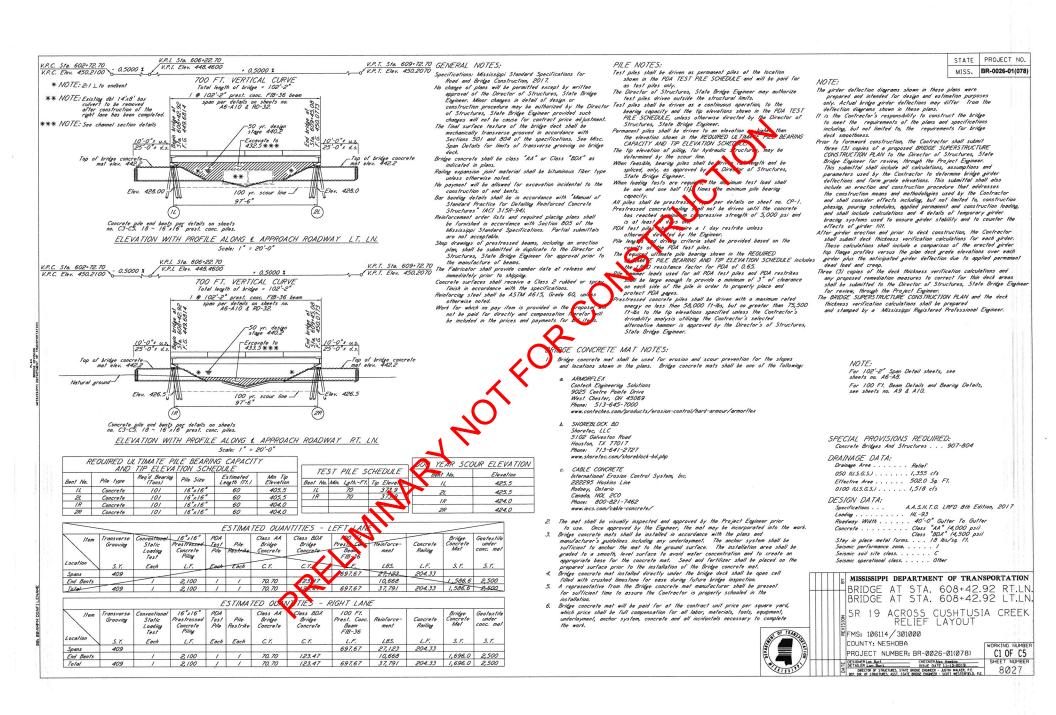


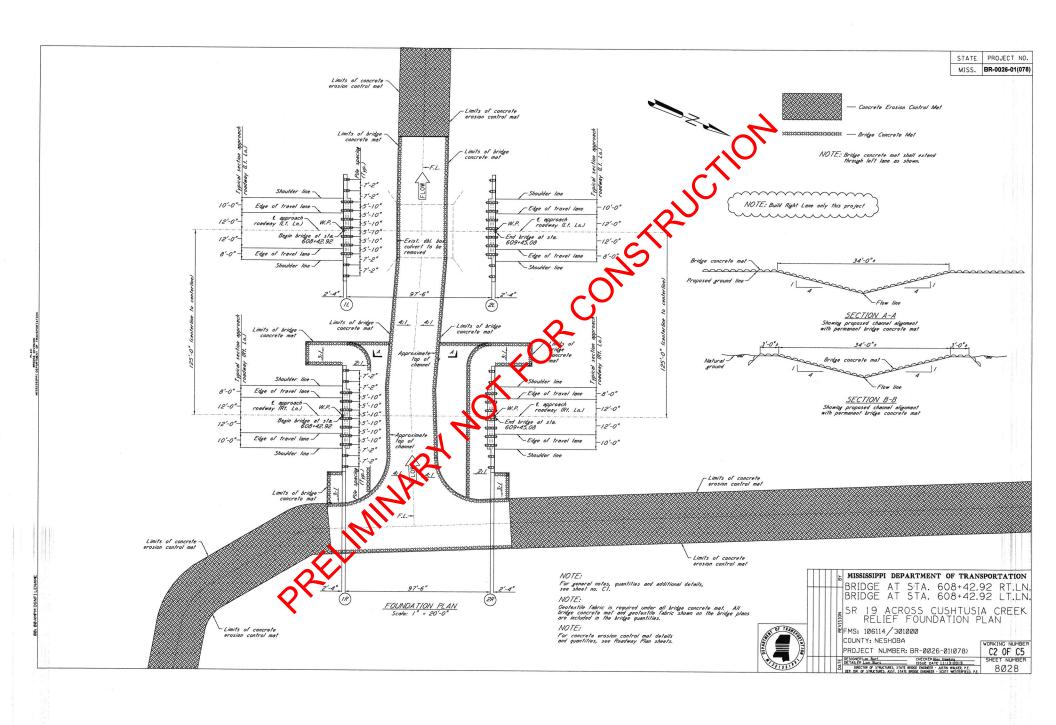


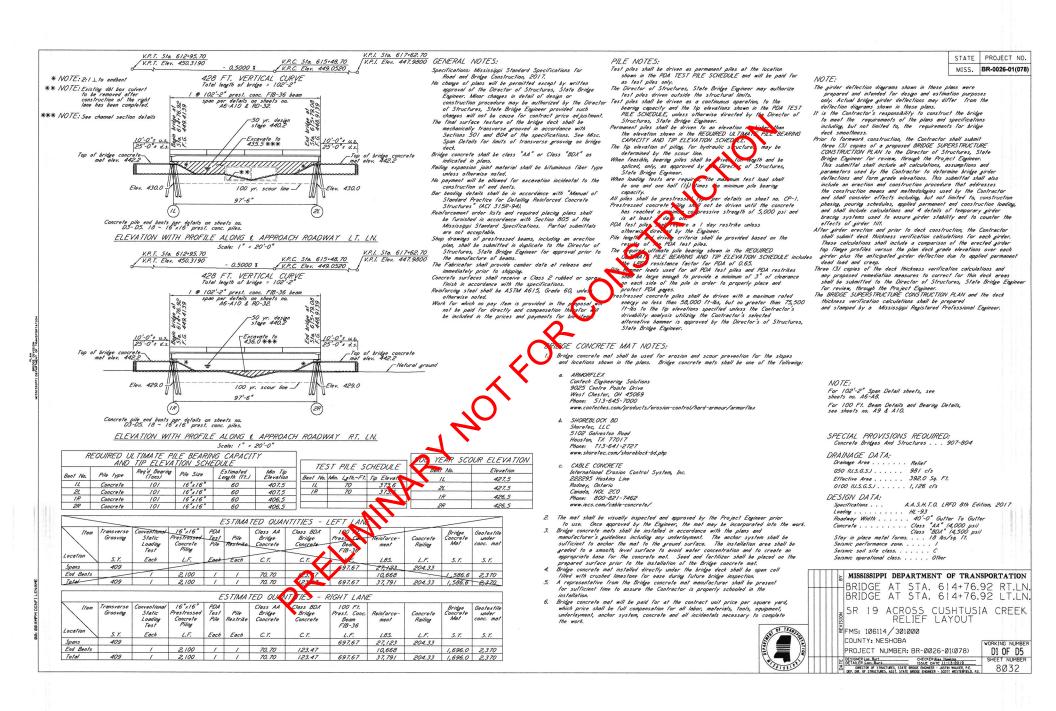


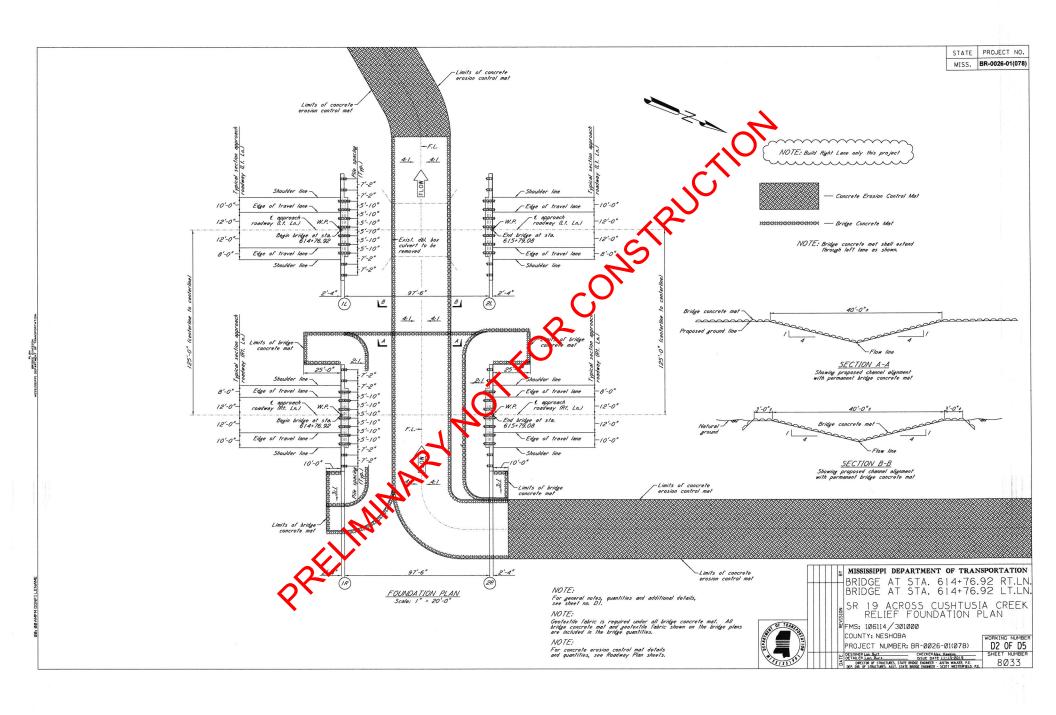


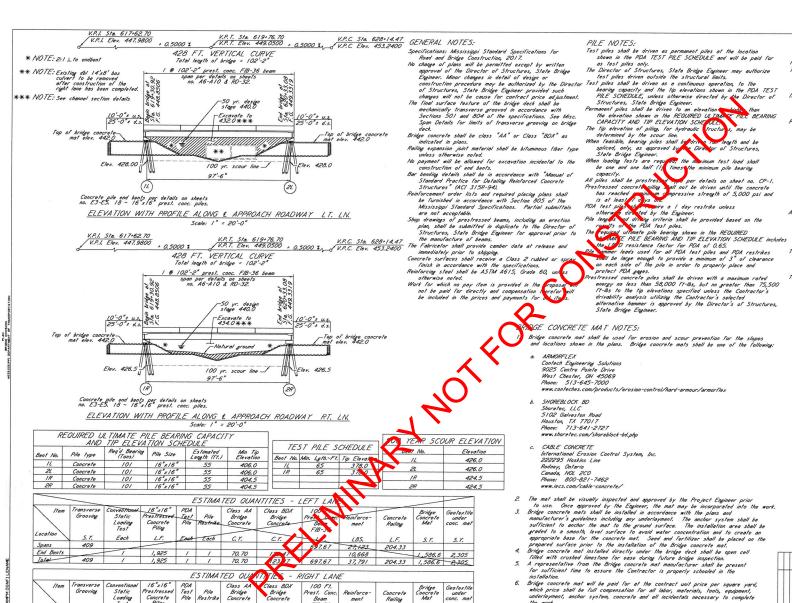












/tem

Location

Spans

End Bents

Transverse

409

409

Convention

Static

Loading Test

16"x16

Concrete Piling

1.925

PDA

Test Pile

Each Each

Restrike

1

70.70

70.70

Class BDX

Bridge

Cancrete

123.47

100 Ft.

FIR-36

L.F.

697.67

697.67

Prest. Conc.

Reinforce

ment

185

27,123

10,668

37,791

Bridge Concrete Mat

1,696.0 2,305

Concrete

Railing

204.33

204.33

Gentextile

under conc. ma

Test piles shall be driven as permanent piles at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only. The Director of Structures, State Bridge Engineer may authorize

is pines sitain be driven as a continuous aperation, to the bearing capacity and the tip elevations shown in the PDA TEST PILE SCHEDULE, unless otherwise directed by the Director of Structures, State Bridge Engineer.

Permanent pulse shall be driven to an elevation of the shall be from the shall be driven to an elevation of the shall be from the REQUIRED ULTIMATE FILE BEARING CAPACITY AND TIP ELEVATION SCHE DELT.

The tip elevation of piling, for hydraulic fructures, may be

length and he drive tail length and be to Director of Structures,

When loading tests are required; the maximum test load shall be one and one half (1) times the minimum pile bearing

energy no less than 58,000 ft-lbs, but no greater than 75,500 ft-lbs to the tip elevations specified unless the Contractor's drivability analysis utilizing the Contractor's selected alternative hammer is approved by the Director's of Structures, State Bridge Engineer.

NOTE:

The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the

STATE | PROJECT NO.

MISS. BR-0026-01(078)

only. Actual urige given contections may after from in deflection diagrams shown in these plans, is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness.

Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State CONSTRUCTION PLAN to the Director of STRUCTURES, The Bridge Engineer for review, through the Project Engineer. This submitted shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder and time write elevations. This submitted shall also deflections and form grade elevations. This submittal shall also include an erection and construction procedure that addresses The construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and 4 details of temporary girder feetings. bracing systems used to ensure girder stability and to counter the effects of pirder tilt.

After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder inese concurations shall include a comparison of the erected girder top flagge profiles versus the plan deck grade elevations over each griver plus the anticipated girder deflection due to applied permanent dead load and creep.

Three (3) copies of the deck thickness verification calculations and

any proposed remediation measures to correct for this deck areas shall be submitted to the Director of Structures, State Bridge Enginee for review, through the Project Engineer.

The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

MOTE. For 102'-2" Span Detail sheets, see sheets no. A6-A8.

For 100 Ft. Beam Details and Bearing Details, see sheets no. A9 & A10.

SPECIAL PROVISIONS REQUIRED: Concrete Bridges And Structures . . . 907-804

Drainage Area Relief 050 (U.S.G.S.) 1,081 cfs Effective Area 400.0 Sq. Ft.

A.A.S.H.T.O. LRFD 8th Edition, 2017

Seismic soil site class. Seismic operational class. Other

> MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT STA. 619+30.92 RT.LN. BRIDGE AT STA. 619+30.92 LT.LN.

> SR 19 ACROSS CUSHTUSIA CREEK RELIEF LAYOUT

FMS: 106114 / 301000 COUNTY: NESHOBA

PROJECT NUMBER: BR-0026-01(078)

DESIGNER Lan. Burt CHECKER Alex. Hawkins
DETABLER Lan. Burt SSUP DATE (11-13-2019
DOPCING OF STRUCTURES, STATE BRIDGE DWINNER - JASTIN WALKER, P.E.
RP. DR. OF STRUCTURES, ASSI. STATE BRIDGE DWINNER - JASTIN WALKER, P.E.

WORKING NUMBER E1 OF E5 SHEET NUMBE 8Ø37

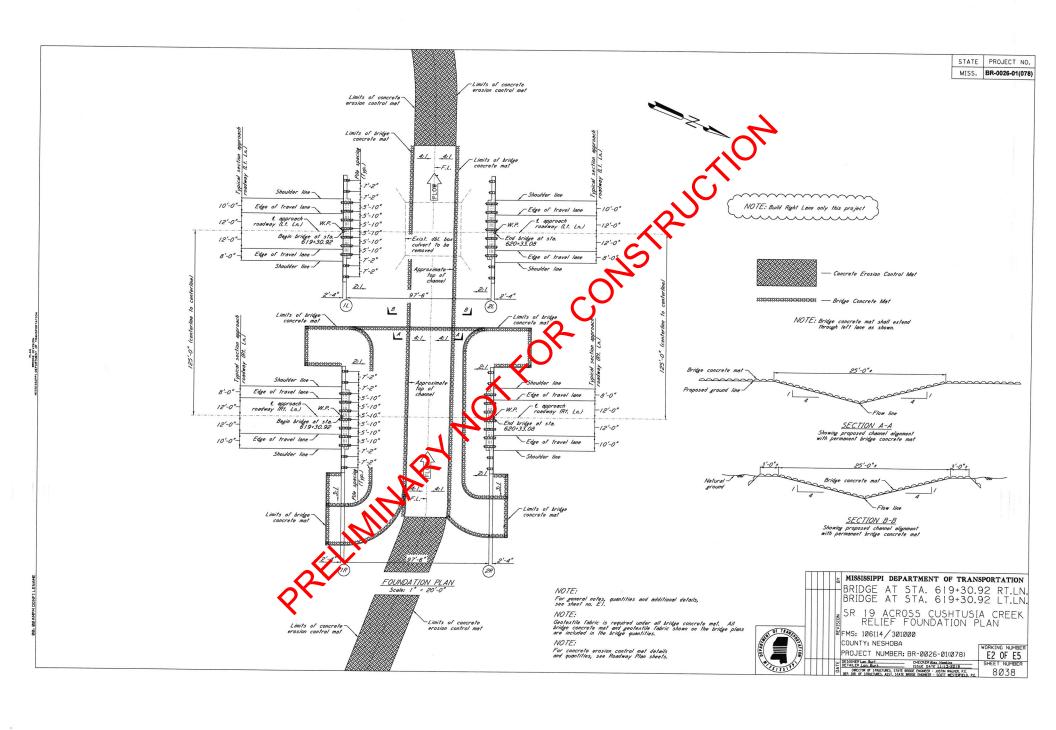
DRAINAGE DATA:

0100 (U.S.G.S.) 1,238 cfs

DESIGN DATA:

Specifications . . .

underlayment, anchor system, concrete and all incidentals necessary to complete LET OF THE PROPERTY.



404 Permit Conditions & 401 Water Quality Certification



GENERAL PERMIT

Vicksburg District 4155 Clay Street Vicksburg, MS 39183-3435 www.mvk.usace.army.mil

FILE NO.: GENERAL PERMIT – 46

DATE: October 2, 2019
EXPIRES: October 2, 2024

FOR: REGULATED ACTIVITIES ASSOCIATED WITH THE DISCHARGE OF

DREDGED OR FILL MATERIAL IN WATERS OF THE UNITED STATES

AND/OR STRUCTURES OR WORK AFFECTING NAVIGABLE WATERS OF THE UNITED STATES ASSOCIATED WITH THE

CONSTRUCTION AND STABILIZATION OF ROADWAY

EMBANKMENTS AND BRIDGE ABUTMENTS

WHERE: THE STATE OF MISSISSIPPI

BY WHOM: DISTRICT ENGINEER, VICKSBURG DISTRICT, ON BEHALF OF THE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION (MDOT)

The U.S. Army Corps of Engineers (USACE), Vicksburg District, is hereby reissuing a Department of the Army General Permit for the discharge of dredged or fill material in waters of the United States and/or structures or work affecting navigable waters of the United States associated with the construction and stabilization of roadway embankments and bridge abutments performed by or having oversight from MDOT within the State of Mississippi. This General Permit shall authorize activities such as the repair and stabilization of existing roadway embankments and bridge abutments; the installation of additional traffic lanes to existing roadways; the upgrading of bridges and other stream-crossing structures; and, construction along new alignments.

This action is being taken pursuant to Federal regulations printed in the <u>Federal Register</u> on November 13, 1986, concerning permits for activities in waters of the United States (U.S.). These regulations state the U.S. Army Corps of Engineers' responsibility for regulating structures or work in or affecting waters of the United States under Section 10 of the Rivers and Harbors Act of 1899 (30 Stat. 1151; 33 U.S.C. 403); and discharges of dredged and/or fill material into waters of the United States under Section 404 of the Clean Water Act (33 U.S.C. 1344).

An agreement was finalized between MDOT, the Federal Highway Administration

(FHWA), and the U.S. Army Corps of Engineers with concurrence from the appropriate Districts on December 12, 2008, which specifies that all MDOT projects within the State will be evaluated by the Vicksburg District. The address is USACE, Vicksburg District, ATTN: Regulatory Branch, 4155 Clay Street, Vicksburg, Mississippi 39183-3435.

Upon expiration of the agreement, since portions of the State are within jurisdictional boundaries of five United States Army Corps of Engineers Districts (enclosure 1), subsequent authorizations to proceed with work proposed under this General Permit will be granted by letter from the appropriate District within whose boundaries the work will be located. The MDOT will be notified of any changes to the agreement and furnished the mailing address of each district.

This General Permit contains certain limitations intended to protect the environment and natural and cultural resources. Conformance with conditions contained in the General Permit does not necessarily guarantee authorization under this General Permit. In cases where the District Engineer considers it necessary, an application will be required for an individual permit.

Regulated construction, dredging, or fill operations not specifically covered by this General Permit are prohibited unless authorized by a separate permit.

General Permits may be issued for a category or categories of activities when: (1) those activities are substantially similar in nature and cause only minimal individual and cumulative environmental impacts; or (2) the General Permit would result in avoiding unnecessary duplication of the regulatory control exercised by another Federal, State, or local agency, provided it has been determined that the environmental consequences of the actions are individually and cumulatively minimal. The determination that the proposed activities comply with the requirements for the issuance of General Permits was made using information which is available for inspection at the office of the Vicksburg District's Regulatory Branch at 4155 Clay Street, Vicksburg, Mississippi.

In compliance with requirements of Section 401 of the Clean Water Act, the Vicksburg District has obtained water quality certification from the Mississippi Department of Environmental Quality (enclosure 2).

The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the U.S. to the maximum extent practicable at the project site (i.e., on site). Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

In order to compensate for any unavoidable losses of functions of jurisdictional waters of the United States associated with the work authorized by this General Permit; the Mississippi Department of Transportation shall develop a compensatory mitigation plan. The compensatory mitigation plan will be fully described in accordance with 33 CFR

Parts 325 and 332, Compensatory Mitigation for Losses of Aquatic Resources; Final Rule, April 2008.

REQUEST FOR AUTHORIZATION UNDER THE GENERAL PERMIT: IN ORDER TO BE AUTHORIZED BY THIS GENERAL PERMIT, THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION ARE REQUIRED TO SUBMIT TO THE DISTRICT ENGINEER, IN WRITING, THE FOLLOWING INFORMATION A MINIMUM OF 60 DAYS PRIOR TO THE PROPOSED BID ADVERTISEMENT DATE:

- a. Statement that the work will be conducted in compliance with the terms and conditions of General Permit 46, will not adversely impact adjoining properties, and will be mitigated for in accordance with the terms of this General Permit.
- b. A location map showing the proposed worksite (including Section, Township, Range, and County).
 - c. A brief description of the proposed worksite in its present condition.
- d. For the selected site, a full set of construction plans (including quantities and types of any fill and quantities of any excavation), maps, and engineering drawings for the proposed activity at that site. These shall include a map of sufficient scale that illustrates an "overlay" of the proposed construction/development activity (e.g. construction roads, ditches, parking areas, lay-down pads, temporary work areas, remaining natural areas, etc.) on jurisdictional waters of the U.S.
 - e. The estimated starting and completion dates of the proposed construction.
- f. Name, mailing address, telephone number, and email address, of the person acting as the point of contact for the requested authorization.
- g. If wetlands or other waters of the U.S. are to be impacted, the following information is required:
- (1) A map delineating the wetlands and other waters of the U.S. and copies of the associated data form(s) for routine wetland determinations from the 1987 Corps of Engineers Wetland Delineation Manual and its subsequent Regional Supplement Manual(s) covering the proposed project area(s).
- (2) The type and date of approval of the NEPA documentation by the FHWA and a copy of their findings as required by Executive Order 11990.
- h. A discussion of how adverse impacts to waters of the U.S. from the proposed activity will be avoided and minimized to the maximum extent practicable at the construction site.

- i. If the loss or conversion to waters of the United States at a single and complete project site exceeds 0.1 acre, the application shall include a compensatory mitigation plan based on an approved wetland functional assessment methodology. Such recommendations should include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- j. If impacts to a natural waterway at a single and complete project site exceed 100 linear feet, MDOT shall include a compensatory mitigation plan based on an approved stream functional assessment methodology. Such recommendations shall include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- k. Comments from the Mississippi Department of Wildlife, Fisheries and Parks, Mississippi Department of Archives and History (including the results of any National Historic Preservation Act, Section 106, consultation actions), United States Fish and Wildlife Service (including the results of any Endangered Species Act, Section 7, consultation actions), and the Mississippi Department of Environmental Quality on the project.
- I. Concurrence in writing from the Mississippi Department of Marine Resources (related to the Coastal Zone Management Act) and the National Marine Fisheries Service (including the results of any Magnuson-Steven Fisheries Conservation and Management Act, essential fish habitat consultation actions), if the project is located in Hancock, Harrison, or Jackson County, Mississippi. (See Special Condition h. below).

Upon receipt of this information, the District Engineer will: advise MDOT, in writing, either that the work will be evaluated for authorization under the General Permit 46; will request additional information, if needed; or will advise MDOT that the proposed activity will be evaluated as an individual permit.

Special Conditions:

- a. No more than 7 acres of wetlands and other waters shall be directly impacted by the placement of fill at each single and complete crossing of a water of the United States where the proposed work involves either upgrading an existing highway within an established corridor or where the work is to be constructed along a new alignment. Any wetlands cut off from their natural hydrologic regime as a result of project work would be considered as directly impacted.
 - b. For stream or river crossings, discharges of permanent fill material and temporary

fill material shall be the minimum necessary to complete the crossing. The term fill refers to earthen material, riprap, concrete, and any other materials associated with the work

- c. The stabilization or construction work shall not interfere with navigation (including recreational boating) or adversely impact the flow-carrying capacity of the affected waterbody.
- d. Material to be used for fill must be nonpolluting and may be obtained either offsite or from site preparation. Offsite material shall not be obtained from wetlands outside the 7-acre limit or from other areas which may adversely affect adjacent wetlands. Any excess material shall be placed in an upland area and properly contained or stabilized to prevent entry into adjacent water-bodies or wetlands.
- e. Disturbed areas on the site shall be stabilized to minimize erosion. Stabilization of erodible areas shall be accomplished by seeding or sodding as soon as practicable to restore vegetative cover. If initial re-vegetation is unsuccessful, the area shall be reseeded or re-sodded until re-vegetation is successful. In areas subject to currents, riprap may be required for slope protection.
- f. No activity that has the potential to cause effects to properties listed, or eligible for listing, in the <u>National Register of Historic Places</u>, or a site that has previously been unevaluated, shall be authorized by this General Permit until the requirements of Section 106 of the National Historic Preservation Act have been satisfied. Additional fill material should not be taken from a known historical or archaeological site within or outside of regulated areas. If the permittee, during prosecution of work authorized herein, inadvertently discovers or accidently destroys a cultural resource such as a cemetery, shipwreck, mound, historic structure, or archaeological site, within the area subject to Department of the Army jurisdiction, they must cease work in the immediate area and notify the District Engineer within 24 hours. The District Engineer, in consultation with the appropriate State Historic Preservation Officer and the Federally recognized Tribe, shall comply with the procedures set forth in 33 CFR 325, Appendix C, paragraph 11 (Historic Properties Discovered During Construction).
- g. The work shall not occur in a National Wildlife Refuge, State Game Management Area, or other such Federal or State lands, or lands leased to those entities without the appropriate Federal or State authorization in writing.
- h. For work within the Mississippi Coastal Zone Management Area, including all areas below Interstate I-10, a set of complete plans shall be sent to the three agencies listed below for review and/or approval as appropriate. Comments and concurrence resulting from this coordination should be submitted with the request for authorization under this General Permit.

- The Mississippi Department of Marine Resources 1141 Bayview Avenue Suite 101 Biloxi, Mississippi 39530
- National Marine Fisheries Service Southeast Regional Office Protected Resources Attention: Ms. Karla Reece 263 13th Ave. S.
 St. Petersburg, Florida 33701 Email: Karla.reece@noaa.gov
- National Marine Fisheries Service Room 266, Military Science Building Attention: Mr. Brandon Howard South Stadium Drive La. State University Baton Rouge, Louisiana 70803-7535
- i. All temporary fills must consist of non-erodible material or be protected to prevent erosion.
- j. Any materials used for temporary structures such as cofferdams, equipment pads, or temporary crossings, shall be removed as soon as practicable, and the waterway should be restored to preconstruction contours.
 - k. Disturbance to riparian vegetation shall be kept to a minimum during construction.
- I. No activity shall be authorized under this General Permit which is likely to directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will likely directly or indirectly destroy or adversely modify the critical habitat of such species. No activity shall be authorized under this General Permit which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. No activity shall be authorized under this General Permit which "may affect" essential fish habitat as identified under Magnuson-Stevens Fishery Conservation and Management Act, unless essential fish habitat consultation addressing the effects of the proposed activity has been completed.
- m. Discharges shall not restrict or impede the movement of aquatic species indigenous to the waters.

- n. All work shall be performed in a manner that will minimize increased turbidity of the water in the project area and otherwise avoid adverse effects on water quality and aquatic life especially during fish spawning season. This may require avoiding construction activities during the peak spawning months of April, May, and June.
- o. The discharge shall not adversely affect a public water supply intake or a National or State Fish Hatchery intake.
- p. The discharge shall not contain unacceptable levels of pathogenic organisms (as prescribed in standards set by the Mississippi Department of Environmental Quality) in areas used for water-contact sports.
- q. The construction activity shall not result in the permanent diversion or relocation of a stream or a river channel except where needed to align a waterway crossing to avoid potential damage to the roadway. In no case, should any realignment extend beyond 150 feet upstream and 150 feet downstream from the centerline of a crossing structure. The construction activity shall not result in stream flow impediment or drain adjacent wetlands.
- r. Authorization under this General Permit is valid until the General Permit expires. Activities authorized under this General Permit which are under construction, or that are under contract to commence by the expiration of this General Permit, will remain authorized provided the activity is completed within 12 months of the date of expiration.
- s. Current standards and practices shall be used to determine what type drainage structure is required at a particular stream crossing (box culvert, bridge, etc.).
- t. To minimize potential adverse impacts to wetlands within the right-of-way or associated with the project, the Mississippi Department of Transportation shall incorporate into each project's design all practicable measures to:
 - (1) Minimize impact on hydrology in wetland areas.
 - (2) Minimize potential for toxic spills and leaching into wetland areas.
 - (3) Minimize discharge of materials, such as silt, into wetlands.
- (4) Maintain adequate flow through wetlands by providing culverts, ditches, and other hydrologic structures.
- (5) Provide berms, traps, or ditches to direct potential toxic spills away from wetlands.
 - (6) Provide for animal migration to and from wetland areas or habitat corridors.

- (7) Provide erosion and sediment control features throughout the construction phase of a project which will minimize both short- and long-term impacts to water quality.
- (8) Provide treatment facilities which may be required to treat highway runoff which would otherwise adversely affect wetlands.
- (9) Provide contractual provisions for stopwork orders, project staging, and other specifications pertaining to minimizing impacts on wetlands and to onsite monitoring.

General Conditions:

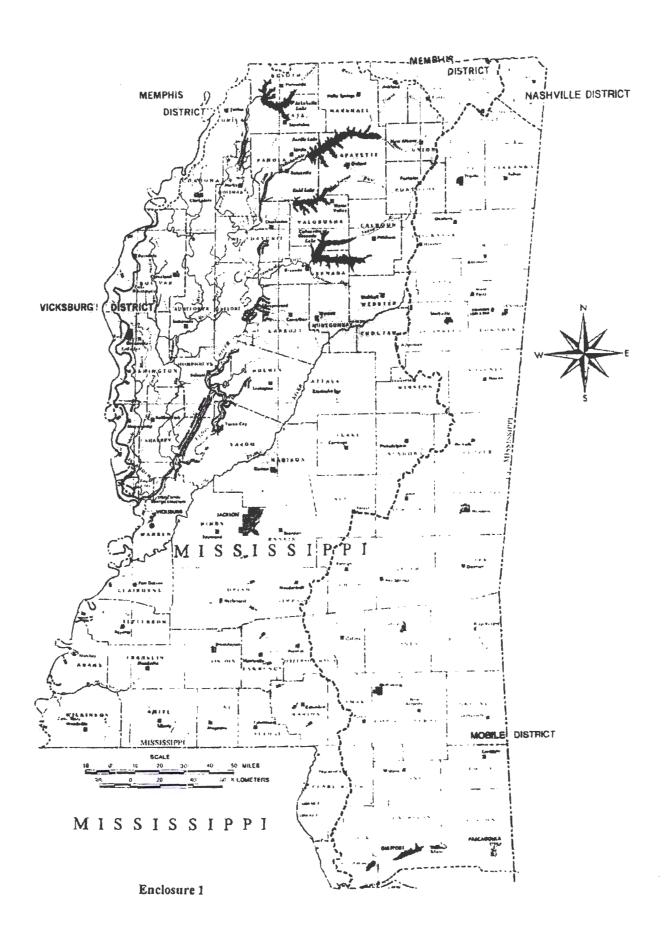
- a. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.
- b. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
 - c. This permit does not grant any property rights or exclusive privileges.
 - d. This permit does not authorize any injury to the property or rights of others.
- e. This permit does not authorize interference with any existing or proposed Federal project.
- f. In issuing this permit, the Federal Government does not assume any liability for the following:
- (1) Damages to the permitted project, or uses thereof, as a result of other permitted or unpermitted activities or from natural causes.
- (2) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- (3) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - (4) Design or construction deficiencies associated with the permitted work.
- (5) Damage claims associated with any future modification, suspension, or revocation of this permit.
- g. In issuing individual authorizations under this General Permit, the Government shall rely on the information and data which the permittee provides in connection with

the permit application. If, subsequent to the authorization, such information and data prove to be false, incomplete, or inaccurate, this authorization may be modified, suspended, or revoked, in whole or in part, and/or the Government may, in addition, institute appropriate legal proceedings.

- h. This office may re-evaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - (1) Failure to comply with the terms and conditions of this permit.
- (2) The information provided in support of a request for authorization proves to have been false, incomplete, or inaccurate (See g. above).
- (3) Significant new information surfaces which was not considered in reaching the original public interest decision.
- i. The General Permit is valid for 5 years from the date of the issuance. At the end of that time, the cumulative environmental effects of completed work will be reviewed and reissuance of the permit may be considered. However, if unforeseen adverse environmental effects result from the issuance of this General Permit, it may be modified or terminated at any time.
- j. Authorization under this General Permit is valid until the General Permit expires. Activities authorized under this General Permit which are under construction, or that are under contract to commence by the expiration of this General Permit, will remain authorized provided the activity is completed within 12 months of the date of expiration.

Cori Carraway

Acting Chief, Regulatory Branch





STATE OF MISSISSIPPI

PHIL BRYANT GOVERNOR

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Gary C. Rikard, Executive Director January 30, 2019

Certified Mail No. 7017 0530 0000 5971 7466

Ms. Jennifer Mallard U.S. Army Corps of Engineers Vicksburg District 4155 Clay Street Vicksburg, Mississippi 39183-3435

Dear Ms. Mallard:

Re:

U. S. Army Corps of Engineers

Vicksburg District

General Permit 46. MDOT

Warren County

COE No. MVK20180808 WOC No. WQC2018047

Pursuant to Section 401 of the Federal Water Pollution Control Act (33 U. S. C. 1251, 1341), the Office of Pollution Control (OPC) issues this Certification, after public notice and opportunity for public hearing, to the U.S. Army Corps of Engineers, Vicksburg District, an applicant for a Federal License or permit to conduct the following activity:

U.S. Army Corps of Engineers, Vicksburg District, General Permit 46: Proposed reissuance of a statewide General Permit for the discharge of dredged or fill material in waters of the United States and/or structures or work affecting navigable waters of the United States associated with the construction and stabilization of roadway embankments and bridge abutments. Permit would authorize activities such as the repair and stabilization of existing roadway embankments and bridge abutments; the installation of additional traffic lanes to existing roadways; the upgrading of bridges and other stream-crossing structures; and construction along new alignments.

This proposed General Permit contains certain limitations intended to protect the environment and natural and cultural resources. Conformance with conditions contained in the General Permit does not necessarily guarantee authorization under this General Permit. In cases where the District Engineer considers it necessary, an application will be required for an individual permit. Regulated construction, dredging, or fill operations not specifically authorized by this General Permit would be prohibited unless authorized by a separate permit.

General Permits may be issued for a category or categories of activities when: (1) those activities are substantially similar in nature and cause only minimal individual and cumulative environmental impacts; or (2) the General Permit would result in avoiding unnecessary duplication of the regulatory control exercised by another Federal, State, or local agency, provided it has been determined that the environmental consequences of the actions are individually and cumulatively minimal.

In order to be authorized by this General Permit, the Mississippi Department of Transportation would be required to submit to the District Engineer in writing, the following information a minimum of 60 days prior to the proposed bid advertisement date:

- a. Statement that the work would be conducted in compliance with the terms and conditions of General Permit 46, would not adversely impact adjoining properties, and would be mitigated for in accordance with the terms of this General Permit.
- b. A location map showing the proposed worksite (including Section, Township, Range, and County).
- c. A brief description of the proposed worksite in its present condition.
- d. For the selected site, a full set of construction plans (including quantities and types of any fill and quantities of any excavation), maps, and engineering drawings for the proposed activity at that site. These shall include a map of sufficient scale that illustrates an "overlay" of the proposed construction/development activity (e.g. construction roads, ditches, parking areas, lay-down pads, temporary work areas, remaining natural areas, etc.) on jurisdictional waters of the U.S.
- e. The estimated starting and completion dates of the proposed construction.
- f. Name, mailing address, telephone number, and email address of the person acting as the point of contact for the requested authorization.
- g. If wetlands or other waters of the U.S. are to be impacted, the following information is required:
 - (I) A map delineating the wetlands and other waters of the U.S. and copies of the associated data form(s) for routine wetland determinations from the 1987 Corps of Engineers Wetland

Delineation Manual and its subsequent Regional Supplement Manual(s) covering the proposed project area(s).

- (2) The type and date of approval of the NEPA documentation by the FHWA and a copy of their findings as required by Executive Order 11990.
- h. A discussion of how adverse impacts to waters of the U.S. from the proposed activity will be avoided and minimized to the maximum extent practicable at the construction site.
- i. If the loss or conversion to waters of the United States at a single and complete project site exceeds 0.1 acre, the application shall include a compensatory mitigation plan based on an approved wetland functional assessment methodology. Such recommendations should include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation; however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- j. If impacts to a natural waterway at a single and complete project site exceed 100 linear feet, MDOT would include a compensatory mitigation plan based on an approved stream functional assessment methodology. Such recommendations would include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- k. Comments from the Mississippi Department of Wildlife, Fisheries and Parks, Mississippi Department of Archives and History (including the results of any National Historic Preservation Act, Section 106, consultation actions), United States Fish and Wildlife Service (including the results of any Endangered Species Act, Section 7, consultation actions), and the Mississippi Department of Environmental Quality on the project.
- 1. Concurrence in writing from the Mississippi Department of Marine Resources (related to the Coastal Zone Management Act) and the National Marine Fisheries Service (including the results of any Magnuson-Steven Fisheries Conservation and Management Act, essential fish habitat consultation actions) if the project is located in

Hancock, Harrison, or Jackson County, Mississippi. (See Special Condition h. below).

Upon receipt of this information the District Engineer will: advise MDOT, in writing, either that the work will be evaluated for authorization under the General Permit 46; will request additional information, if needed; or will advise MDOT that the proposed activity will be evaluated as an individual permit.

Special Conditions of the General Permit:

- a. No more than 7 acres of wetlands and other waters would be directly impacted by the placement of fill at each single and complete crossing of a water of the United States where the proposed work involves either upgrading an existing highway within an established corridor or where the work is to be constructed along a new alignment. Any wetlands cut off from their natural hydrologic regime as a result of project work would be considered as directly impacted.
- b. For stream or river crossings, discharges of permanent fill material and temporary fill material would be the minimum necessary to complete the crossing. The term fill refers to earthen material, riprap, concrete, and any other materials associated with the work.
- c. The stabilization or construction work would not interfere with navigation (including recreational boating) or adversely impact the flow-carrying capacity of the affected waterbody.
- d. Material to be used for fill must be nonpolluting and may be obtained either offsite or from site preparation. Offsite material would not be obtained from wetlands outside the 7-acre limit or from other areas which may adversely affect adjacent wetlands. Any excess material would be placed in an upland area and properly contained or stabilized to prevent entry into adjacent waterbodies or wetlands.
- e. Disturbed areas on the site would be stabilized to minimize erosion. Stabilization of erodible areas would be accomplished by seeding or sodding as soon as practicable to restore vegetative cover. If initial re-vegetation is unsuccessful, the area would be reseeded or re-sodded until re-vegetation is successful. In areas subject to currents, riprap may be required for slope protection.
- f. No activity that may adversely affect a site listed in or eligible for listing in the National Register of Historic Places would be authorized by this General Permit until the requirements of Section 106 of the National Historic Preservation Act have been satisfied. Additional material would not be taken from a known historical or archaeological site. If you discover any previously

unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the District Engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The District Engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

- g. The work would not occur in a National Wildlife Refuge, State Game Management Area, or other such Federal or State lands, or lands leased to those entities without the appropriate Federal or State authorization in writing.
- h. For work within the Mississippi Coastal Zone Management Area, including all areas below Interstate I-10, a set of complete plans would be sent to the two agencies listed below for review and/or approval as appropriate. Comments and concurrence resulting from this coordination would be submitted with the request for authorization under this General Permit.
 - Mississippi Department of Marine Resources 1141 Bayview Avenue Suite 101 Biloxi, Mississippi 39530
 - National Marine Fisheries Service Southcast Regional Office Protected Resources Attention: Ms. Karla Reece 263 13th Avenue S. St. Petersburg, Florida 33701 Email: Karla.reece@noaa.gov
 - 3. National Marine Fisheries Service Room 266, Military Science Building Attention: Mr. Brandon Howard South Stadium Drive La. State University Baton Rouge, Louisiana 70803-7535
- i. All temporary fills must consist of non-erodible material or be protected to prevent erosion.
- j. Any materials used for temporary structures such as cofferdams, equipment pads, or temporary crossings, would be removed as soon as practicable, and the waterway would be restored to preconstruction contours.

- k. Disturbance to riparian vegetation would be kept to a minimum during construction.
- 1. No activity shall be authorized under this General Permit which would likely directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which would likely directly or indirectly destroy or adversely modify the critical habitat of such species. No activity shall be authorized under this General Permit which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. No activity shall be authorized under this General Permit which "may affect" essential fish habitat as identified under Magnuson-Stevens Fishery Conservation and Management Act, unless essential fish habitat consultation addressing the effects of the proposed activity has been completed.
- m. Discharges would not restrict or impede the movement of aquatic species indigenous to the waters.
- n. All work would be performed in a manner that would minimize increased turbidity of the water in the project area and otherwise avoid adverse effects on water quality and aquatic life especially during fish spawning season. This may require avoiding construction activities during the peak spawning months of April, May, and June.
- o. The discharge would not adversely affect a public water supply intake or a National or State Fish Hatchery intake.
- p. The discharge would not contain unacceptable levels of pathogenic organisms (as prescribed in standards set by the Mississippi Department of Environmental Quality) in areas used for water-contact sports.
- q. The construction activity would not result in the permanent diversion or relocation of a stream or a river channel except where needed to align a waterway crossing to avoid potential damage to the roadway. In no case, would any realignment extend beyond 150 feet upstream and 150 feet downstream from the centerline of a crossing structure. The construction activity would result in neither stream flow impediment nor drain adjacent wetlands.
- r. Authorizations under this General Permit would be valid for five (5) years from the date of the authorizing letter.

- Prior to the start of construction activities, coverage under a Stormwater Construction General NPDES Permit shall be obtained. No construction activities shall begin until such approvals are obtained.
- 3. Extreme care shall be taken to prevent the permanent restriction or impedance of water flow. Pre-construction hydrology shall be maintained.
- 4. All stream impacts (including streams identified as ephemeral by the U.S. Army Corps of Engineers and described as non-relatively permanent waters) shall be mitigated in kind with stream mitigation elements. In the event that stream mitigation is not available and alternate mitigation proposals are provided, a pre-construction notification shall be provided to MDEQ and 10 working days shall be allowed to provide comments.
- 5. A pre-construction notification shall be provided to MDEQ for projects that include channel work within waterways found on the latest version of the State of Mississippi's Section 303(d) List of Impaired Water Bodies for sediment or biological impairment or waterways with a completed Total Maximum Daily Load (TMDL) for sediment or biological impairment. This notification shall include the following:
 - a. Justification of why the impacts cannot be avoided;
 - b. Proposed best management practices that would minimize the impacts to receiving sensitive waters; and
 - c. Compensatory mitigation primarily along the same reach of stream or on another impaired stream within the same drainage basin.
- 6. The turbidity outside the limits of a 750-foot mixing zone shall not exceed the ambient turbidity by more than 50 Nephelometric Turbidity Units.
- 7. No sewage, oil, refuse, or other pollutants shall be discharged into the watercourse.

The Office of Pollution Control also certifies that there are no limitations under Section 302 nor standards under Sections 306 and 307 of the Federal Water Pollution Control Act which are applicable to the applicant's above-described activity.

Mallard Page 9 of 9 January 30, 2019

This certification is valid for the project as proposed. Any deviations without proper modifications and/or approvals may result in a violation of the 401 Water Quality Certification. If we can be of further assistance, please contact us.

Sincerely,

Krystal Rudolph, P.E., BCEE

Chief, Environmental Permits Division

KR: chb

cc: Tony Lobred, U.S. Army Corps of Engineers, Vicksburg District

Willa Brantley, Department of Marine Resources David Felder, U.S. Fish and Wildlife Service Molly Martin, Environmental Protection Agency