


Department of Engineering
Dan Gaillet, P.E., County Engineer

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MEMORANDUM

July 11, 2018

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E. 
County Engineer

Re: Memorandum of Understanding
Office of State Aid Road Construction

The Office of State Aid Road Construction is in the process of changing how bridges across the County will be inspected. The two major changes include:

1. State Aid will negotiate and execute a contract for inspection with the consultant the Board recommends, which can be the existing Engineer or a consultant that is qualified and able to complete the inspections; and
2. Instead of a flat fee for services, the Engineer will be paid through a labor-hour contract.

As a result, costs for inspection are expected to increase 4 to 6 times due to the new requirements. However, it is anticipated that federal funds will be utilized to pay for the inspections.

Therefore, it is the recommendation of the Engineering Department for the Board President to sign the MOU and Board Order.



**OFFICE OF
STATE AID ROAD CONSTRUCTION
P.O. BOX 1850
JACKSON, MISSISSIPPI 39215-1850**

H. Carey Webb, P.E.
State Aid Engineer
Telephone (601) 359-7150

412 Woodrow Wilson Avenue
Jackson, Mississippi 39216
Fax (601) 359-7141

June 28, 2018

Madison County Board of Supervisors
C/O
Ronny Lott
Chancery Clerk
P. O. Box 404
Canton, Mississippi 39046

RE: Memorandum of Understanding and Board Order
Fiscal Year 2019 Inspection of Designated Bridges
Madison County, MS

Members of the Board,

Please find enclosed a Memorandum of Understanding with a Board Order and a proposed list of non-complex bridges scheduled for the 2018-2019 inspection cycle. These bridges have been routinely inspected by the County Engineer. The Federal Highway Administration has requested that the format of the agreement for bridge inspections be changed.

In the past, scheduled bridge inspections, quality control inspections, and follow-up inspections were done at a unit price of \$350.00 per bridge. Required monitoring of scour-critical structures were done at a unit price of \$120.00 per bridge. These inspections will now be completed through a labor-hour contract format similar to the current contracts for timber bridge inspections. Implementation of this format will proceed in the following way:

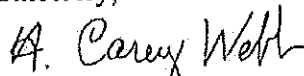
- The Board will review and approve the Memorandum of Understanding and the Board Order enclosed. These documents authorizes the State Aid Engineer to negotiate and execute a contract for inspection with the consultant your Board recommends.

- The Board will identify a qualified and experienced bridge inspection consultant for negotiation of the new inspection contract. The Board may select its current County Engineer for these inspections. Please note that the County Engineer or selected consultant **must be qualified and able to complete the inspections.** County Engineers or consultants who are selected must have in-house bridge inspection Team Leaders and other qualified personnel as required by the National Bridge Inspection Standards and must perform at least 40% of the contract. If the current County Engineer does not qualify for these inspections, the Board may recommend the consultant that has completed the inspections in the past or any other qualified consultant.
- State Aid will then negotiate the terms of the contract with the approved consultant and will execute the contract for the inspections. State Aid will communicate to the Board the results of the negotiation.

The initial costs for these inspections will be higher than for previous inspections due to the change in fee structure and the need to update load rating information for each structure. For the attached list of bridges to be inspected last year, total cost would be expected to be approximately \$23,390.00. With the new requirement of a more detailed inspection and load rating of the structures, this year's cost is expected to range from \$100,000.00 to \$130,500.00. It is expected that over time inspection costs will decrease and stabilize as inspection and load rating information for each structure is completed. As stated in the Memorandum of Understanding, it is anticipated that Federal funding will be utilized to pay for these inspections.

In order to meet the completion date for federal reporting of bridge inspection information, State Aid requests that the Board execute and return the Memorandum of Understanding and Board Order by August 5, 2018. Please advise if you have questions. Your usual cooperation is appreciated.

Sincerely,



H. Carey Webb
State Aid Engineer

Attachments (2)

cc: Lanny Glover
David Barrett
County Engineer
File

**MEMORANDUM OF UNDERSTANDING
BETWEEN
THE
OFFICE OF STATE AID ROAD CONSTRUCTION
AND THE
BOARD OF SUPERVISORS OF MADISON COUNTY, MISSISSIPPI**

This Memorandum of Understanding ("Agreement") is by and between the Office of State Aid Road Construction, (STATE AID), acting by and through the State Aid Engineer, and the Board of Supervisors of Madison County of the State of Mississippi (COUNTY), effective as of the latest date of execution below.

WHEREAS, the COUNTY is a political subdivision of the State of Mississippi governed by its Board of Supervisors with full jurisdiction and governing authority over matters involving bridges within the COUNTY to be exercised in accordance with such regulations as the Legislature has prescribed pursuant to Article 6, § 170 of the *Mississippi Constitution of 1890*; and

WHEREAS, STATE AID is a legislatively established office of the Mississippi Department of Transportation (MDOT) established pursuant to Section 65-1-2 Miss. Code Ann. (1972) which, among other responsibilities, assists Mississippi's counties by administering the Federal Highway Administration's (FHWA's) National Bridge Inspection and Inventory program for county and locally owned bridges in Mississippi; and

WHEREAS, STATE AID and the COUNTY are authorized pursuant to Sections 65-1-77 and 65-1-79 of the Mississippi Code of 1972, as amended, to enter agreements which are a part of an overall plan to be administered under and to secure funds according to the provisions of Title 23, United States Code; and

WHEREAS, the COUNTY has been advised by the STATE AID Engineer that certain bridges on public roads within the COUNTY will require an inspection as set forth under the National Bridge Inspection Standards (NBIS) and the AASHTO Manual for Bridge Evaluation (MBE), Inspection of Fracture Critical Bridge Members (Report No. FHWA-IP-86-26), Bridge Inspector's Reference Manual (BIRM) (Publication No. FHWA NHIE 12-049), December 2012), AASHTO'S Manual of Bridge Element Inspection, Mississippi Bridge Inspection Program Local System Manual (LSM); and

WHEREAS, the bridges to be inspected are those bridges as designated by the STATE AID Engineer on public roads; and

WHEREAS, the parties desire to cooperate fully with each other in facilitating the performance of said inspections; and

WHEREAS, to the extent certain of the services required to accomplish these inspections are not covered by the Brooks Act (40 U.S.C. §§ 1101, *et seq.*) and related federal

regulations, the COUNTY will recommend a qualified consultant, subject to and as approved by the STATE AID Engineer, to contract with STATE AID to perform such inspection and data collection services as may be deemed necessary; and

WHEREAS, to the extent certain professional services are covered by the Brooks Act and related federal regulations, STATE AID will contract with professional consultants solicited and selected in accordance with the procedures set forth in the Federal-Aid Policy Guide and 23 CFR Part 172 to perform such services as may be deemed necessary; and

NOW, THEREFORE, in consideration of the promises and agreements of the parties hereto, as shown below, it is hereby agreed as follows:

I. PURPOSE

The purpose of this Agreement is to establish and define the respective responsibilities and obligations of STATE AID and the COUNTY regarding the above mentioned bridge inspections in the COUNTY.

II. ADMINISTRATION AUTHORITY AND RESPONSIBILITIES OF THE PARTIES

A. STATE AID shall:

1. Review and, if appropriate, approve the recommendation of the COUNTY regarding qualified consultant(s) to execute a contract with STATE AID to perform bridge inspections and related services as are not covered by the Brooks Act and implementing regulations.
2. Negotiate a contract with fair and reasonable costs.
3. If the STATE AID Engineer determines that fair and reasonable costs cannot be negotiated, STATE AID may terminate negotiations and notify the COUNTY to recommend an alternative qualified consultant.
4. Execute such contracts as may be necessary and desirable for professional engineering and/or any other related services with professional consultant(s) solicited and selected in accordance with the procedures set forth in the Brooks Act and its implementing regulations.
5. Keep all records as required in the LSM and allow FHWA, MDOT or COUNTY access during reasonable business hours.

B. The COUNTY shall:

1. Coordinate and cooperate with STATE AID in the inspection process.

2. Submit consultant(s), subject to the approval of the STATE AID Engineer, qualified to perform the required inspection(s) and complete all services in the consultant(s) contract(s) in the appropriate format and within the time allotted and any related work as required by STATE AID.
3. Cooperate fully with any STATE AID consultant(s) hired to perform professional engineering or any other services related to the inspection(s) and allow all access to property as necessary to perform the purpose of this Agreement.
4. Provide and make available all drawings, plans, and documents in the COUNTY's possession reflecting the structure and/or maintenance of the subject bridges that may make inspection of the bridges more efficient.

III. CONTACT PERSONS

- A. For purposes of implementing this Agreement, the following individuals are herewith designated as agents for the respective parties unless written notice of a change is given. All correspondence shall be directed to the designated contacts.

The designated contacts for the parties are:

OFFICE OF STATE AID ROAD CONSTRUCTION
Attention State Aid Engineer
P.O. Box 1850
Jackson, MS 39215-1850
Tele. (601) 359-7150
Fax. (601) 359-7141

MADISON COUNTY

Stantec Consulting Services Inc.

- B. All notices given hereunder shall be by U.S. Certified Mail, return receipt requested, or by facsimile and shall be effective only upon receipt by the addressee at the above addresses or telephone numbers.

IV. BRIDGES TO BE INSPECTED:

The bridges to be inspected are those bridges as designated by the STATE AID Engineer on public roads and STATE AID and its consultant(s) are authorized to conduct the necessary inspections of all the designated bridges.

V. CRITICAL FINDINGS AND POSTINGS/CLOSURES:

A "Critical Finding" as defined in the LSM is any structural or safety related situation discovered during any inspection that threatens public safety.

In the event a consultant makes a "Critical Finding", the consultant shall notify the COUNTY and STATE AID immediately and the COUNTY shall proceed immediately to perform any and all action recommended by the consultant(s).

Bridges requiring posting or closure based on this inspection and evaluation will be promptly posted or closed by the COUNTY or City (if applicable) in accordance with established law, standards, and procedures.

Nothing in this Agreement shall be construed to limit the authority of STATE AID or the Mississippi Transportation Commission (MTC) under Sections 65-37-11 and 65-1-77 of the Mississippi Code and/or any other applicable law.

VI. FUNDING

It is expressly understood by the parties that funding for these inspections, professional engineering and/or any other related services and services not covered by the Brooks Act and implementing regulations are limited and that the obligation of STATE AID to proceed under the Agreement is conditioned upon availability of funds, the appropriation of funds by the United States Congress, the Mississippi Legislature and the COUNTY. All parties understand and agree that the first source of funding shall be those made available by the FHWA. If and when those funds are exhausted, then funding shall come from the STATE AID Road funding available to the COUNTY. Then and only then shall local COUNTY funding be applied to pay for the inspection services under these contracts.

Under no circumstances will STATE AID road funding or local COUNTY funding be committed to the inspection process without the agreement of the COUNTY.

VII. AMENDMENTS

This Agreement may only be amended in writing as mutually agreed by the parties.

VIII. SEVERABILITY

Should any provision of this Agreement be found to be unconstitutional, or otherwise be contrary to the laws of the State of Mississippi or the United States of

America, to the extent that it is reasonably possible to do so, the remainder of this Agreement shall remain in full force and effect.

IX. GENERAL PROVISIONS

- A. Provision of the services anticipated by this Agreement and completion of the inspection(s) will be contingent on funding being provided by the Mississippi Legislature, the FHWA, or other source(s). However, under no circumstance shall State Aid have any financial obligations in excess of the amount of the available funding.
- B. It is understood that this is a Memorandum of Understanding, and that more specific requirements for the inspections are contained in the Federal Statutes and the Code of Federal Regulations, the Mississippi Code, and the policies and procedures of MDOT, STATE AID, and other related regulatory authorities. The COUNTY agrees to abide by all such applicable authority.
- C. All contracts and subcontracts shall include a provision for compliance with the Mississippi Employment Protection Act (MEPA), as published in the General Laws of 2008 and codified in Section 71-11-3 of the Mississippi Code of 1972, as amended. Under MEPA, the parties and every consultant or sub-consultant, if any, shall register with and participate in a federal work authorization program operated by the United States Department of Homeland Security to electronically verify information of newly hired employees pursuant to the Immigration Reform and Control Act of 1986, Pub.L. 99-603, 110 Stat. 3359, as amended.
- D. All contracts and subcontracts shall include all relevant required provisions as determined by STATE AID.

X. RESPONSIBILITIES FOR CLAIMS AND LIABILITY

- A. The MTC, MDOT, STATE AID and the COUNTY, their agents, officials, and employees have no obligations or responsibilities toward the activities conducted under this Agreement except those specifically stated herein, and have no authority to supervise, or control any contractor or consultant employed by the other.
- B. The MTC will not be a party to any contract or subcontract entered into by STATE AID, but may concur in said contracts or subcontracts to the extent federal funds are involved.

XI. TERMINATION

This Agreement may be terminated only by written approval of the parties in absence of a material breach by the non-terminating party.

XII. AUTHORIZING BOARD ORDER

A Board Order authorizing execution of this Agreement and naming the COUNTY'S recommended consultant(s), where applicable, under the agreement is attached as Exhibit A.

WITNESS this my signature in agreement and execution hereof,
this the ____ day of _____, 2018.

**THE OFFICE OF STATE AID ROAD
CONSTRUCTION**

State Aid Engineer

WITNESS this my signature in agreement and execution hereof, this
the ____ day of _____, 2018.

**BOARD OF SUPERVISORS
MADISON COUNTY, MISSISSIPPI**

BY: _____
_____, President

ATTEST:

(Affix Seal)

WITNESS this my signature in concurrence herewith insofar as funding from the Federal Highway Administration is concerned, this the ___ day of _____, 2018.

**THE MISSISSIPPI TRANSPORTATION COMMISSION
BY AND THROUGH THE EXECUTIVE DIRECTOR OF
THE MISSISSIPPI DEPARTMENT OF
TRANSPORTATION**

Melinda L. McGrath, P.E.

EXHIBIT A

**ORDER OF THE BOARD OF SUPERVISORS OF
MADISON COUNTY, MISSISSIPPI**

WHEREAS, the COUNTY has been advised by the STATE AID Engineer that certain bridges as designated by STATE AID within the COUNTY will require an inspection as set forth under the National Bridge Inspection Standards (NBIS) and the AASHTO Manual for Bridge Evaluation (MBE), Inspection of Fracture Critical Bridge Members (Report No. FHWA-IP-86-26), Bridge Inspector's Reference Manual (BIRM) (Publication No. FHWA NHIE 12-049), December 2012), AASHTO'S Manual of Bridge Element Inspection Mississippi Bridge Inspection Program Local System Manual (LSM) and the bridges are those bridges on public roads as designated by STATE AID.

WHEREAS, the COUNTY has been authorized to execute according to the terms contained therein the Memorandum of Understanding Between the Office of State Aid Road Construction and the Board of Supervisors of County, Mississippi ("Memorandum of Understanding") to which this order is attached thereto.

WHEREAS, the County desires to recommend a qualified and experienced Consultant(s) to conduct services under this Memorandum of Understanding.

NOW, THEREFORE, this Board does hereby order that the Board shall execute the Memorandum of Understanding and proceed with the inspection process of the listed bridges pursuant to the terms of the Memorandum of Understanding and the County does hereby recommend the Consultant(s) for the subject bridge inspection(s) as follows:

Stantec Consulting Services Inc.

WITNESS this my signature in agreement and execution hereof, this the _____
day of _____, 2018.

**BOARD OF SUPERVISORS
MADISON COUNTY, MISSISSIPPI**

BY: _____
_____, President

ATTEST:

(Affix Seal)

Clerk of the Board

SO ORDERED this the _____ of _____, 2018.

This is to certify that the foregoing is a true and correct copy of an order passed by the Board of Supervisors of Madison Mississippi, entered upon the minutes of said Board of Supervisors, same having been adopted at a meeting of said Board of Supervisors on the _____ day of _____, 2018.

SEAL

2018-2019 LIST OF NON-COMPLEX BRIDGES

PER COUNTY

#	COUNTY	BRIDGE #	TRIBUTARY	ROAD OR HWY	LOCATION	SYS	LATITUDE	LONGITUDE
1	MADISON	SA450000000001	CREEK	SOCIETY RIDGE ROAD	SEC 17 T 7N R 1E	OFF	32.45055556	-90.22222222
2	MADISON	SA450000000003	WHITE OAK CREEK	OLD AGENCY ROAD	SEC 27 T 7N R 1E	B ON	32.42638889	-90.17972222
3	MADISON	SA450000000006	HEARN CREEK	NORTHBAY DRIVE	SEC 15 T 7N R 2E	OFF	32.45444444	-90.07722222
4	MADISON	SA450000000007	BRASHEAR CREEK	MAGNOLIA DRIVE	SEC 17 T 7N R 2E	OFF	32.45166667	-90.12
5	MADISON	SA450000000009	BRASHEAR CREEK	RICE ROAD	SEC 28 T 7N R 2E	ON	32.42127778	-90.09811111
6	MADISON	SA450000000012	BALFOUR CREEK	KEARNEY PARK RD	SEC 5 T 8N R 1W	B OFF	32.57477778	-90.31686111
7	MADISON	SA450000000015	PERSIMMON CREEK	MCMILLON ROAD	SEC 10 T 8N R 1E	OFF	32.54638889	-90.175
8	MADISON	SA450000000019	CREEK	GUS GREEN ROAD	SEC 32 T 8N R 1E	OFF	32.49819444	-90.21786111
9	MADISON	SA450000000020	LIME CREEK	ROBINSON SPRINGSRD	SEC 36 T 8N R 1W	B ON	32.49697222	-90.25466667
10	MADISON	SA450000000021	BEAR CREEK	OLD CANTON ROAD	SEC 1 T 8N R 2E	B ON	32.56111111	-90.04027778
11	MADISON	SA450000000022	PANTHER CREEK	STOUT ROAD	SEC 7 T 8N R 2E	OFF	32.55333333	-90.13444444
12	MADISON	SA450000000023	PANTHER CREEK	CATLETT ROAD	SEC 7 T 8N R 2E	B ON	32.55638889	-90.13622222
13	MADISON	SA450000000024	LITTLE BEAR CREEK	OLD CANTON RD	SEC 13 T 8N R 2E	B ON	32.53111111	-90.03805556
14	MADISON	SA450000000025	BEAR CREEK TRIBUTARY	OLD CANTON RD	SEC 13 T 8N R 2E	B ON	32.53222222	-90.03808333
15	MADISON	SA450000000027	BOGUE CHITTO	SMITH-FLORA ROAD	SEC 15 T 8N R 2W	B ON	32.54436111	-90.39669444
16	MADISON	SA450000000028	BOGUE FALIA CREEK	JOE HALL RD	SEC 19 T 8N R 2W	OFF	32.52055556	-90.43861111
17	MADISON	SA450000000032	BEAR CREEK TRIBUTARY	OLD CANTON RD	SEC 24 T 8N R 2E	B ON	32.51888889	-90.03808333
18	MADISON	SA450000000035	BEAR CREEK	WEISENBERGER ROAD	SEC 28 T 8N R 2E	B ON	32.51277778	-90.09144444
19	MADISON	SA450000000037	BEAR CREEK BRANCH	BOZEMAN ROAD	SEC 30 T 8N R 2E	B OFF	32.51272222	-90.13363889
20	MADISON	SA450000000038	BOGUE FALIA CREEK	ABERNATHY ROAD	SEC 31 T 8N R 2W	OFF	32.49183333	-90.44291667
21	MADISON	SA450000000039	BEAR CREEK	BOZEMAN ROAD	SEC 31 T 8N R 2E	B ON	32.49416667	-90.13911111
22	MADISON	SA450000000040	CREEK	CLARKDELL ROAD	SEC 34 T 8N R 2E	ON	32.49094444	-90.07280556
23	MADISON	SA450000000042	BEAR CREEK TRIBUTARY	ENDRIS ROAD	SEC 2 T 8N R 3E	OFF	32.57205556	-89.96952778
24	MADISON	SA450000000043	BEAR CREEK TRIBUTARY	ENDRIS ROAD	SEC 4 T 8N R 3E	OFF	32.56044444	-89.98947222
25	MADISON	SA450000000045	BEATTIES BRANCH	MOUNT ELM ROAD	SEC 4 T 9N R 1E	OFF	32.65741667	-90.20888889
26	MADISON	SA450000000046	PERSIMMON CREEK	VIRILLA ROAD	SEC 13 T 9N R 1W	B ON	32.63133333	-90.26002778
27	MADISON	SA450000000051	HANGING MOSS CREEK	CLOUD ROAD	SEC 21 T 9N R 1E	B OFF	32.61722222	-90.19391667
28	MADISON	SA450000000053	BURNT CANE CREEK	VIRILLA ROAD	SEC 28 T 9N R 1W	B ON	32.59369444	-90.29944444
29	MADISON	SA450000000056	BALFOUR CREEK	LIVINGSTON-V ROAD	SEC 30 T 9N R 1W	B ON	32.58958333	-90.33505556
30	MADISON	SA450000000057	PERSIMMON CREEK	STOKES ROAD	SEC 31 T 9N R 1E	B OFF	32.57908333	-90.23194444
31	MADISON	SA450000000058	BALFOUR CREEK	MIDDLE ROAD	SEC 32 T 9N R 1W	B OFF	32.5755	-90.31872222
32	MADISON	SA450000000060	CANE CREEK	MOORE AVE	SEC 34 T 9N R 1W	B ON	32.589325	-90.28974167
33	MADISON	SA450000000061	CANE CREEK	MCCULLOUGH LANE	SEC 35 T 9N R 1W	ON	32.58116667	-90.27852778
34	MADISON	SA450000000063	BATCHELOR CREEK	KING RANCH ROAD	SEC 11 T 9N R 2E	ON	32.63772222	-90.05475
35	MADISON	SA450000000073	TILDA BOGUE TRIBUTARY	BRANSCOMB ROAD	SEC 5 T 9N R 3E	OFF	32.65758333	-90.00772222
36	MADISON	SA450000000074	WALNUT CREEK TRIBUTARY	KEARNEY ROAD	SEC 22 T 9N R 3E	OFF	32.60377778	-89.97163889
37	MADISON	SA450000000077	WALNUT CREEK	SHARON ROAD	SEC 25 T 9N R 3E	B OFF	32.59777778	-89.93627778

2018-2019 LIST OF NON-COMPLEX BRIDGES
PER COUNTY

#	COUNTY	BRIDGE #	TRIBUTARY	ROAD OR HWY	LOCATION		SYS	LATITUDE	LONGITUDE
38	MADISON	SA450000000107	CREEK	DAVIS ROAD	SEC 20 T10N R 3E	B	OFF	32.69111111	-90.00355556
39	MADISON	SA450000000112	KENTUCTAH CREEK	BEN LUCKETT RD	SEC 2 T10N R 4E		OFF	32.735	-89.85352778
40	MADISON	SA450000000128	DOAKS CREEK TRIBUTARY	WAY ROAD	SEC 34 T11N R 3E		OFF	32.749	-89.97886111
41	MADISON	SA450000000146	PARKER CREEK	MULLINVILLE ROAD	SEC 21 T12N R 5E		OFF	32.87444444	-89.79686111
42	MADISON	SA450000000151	DRAINAGE DITCH	O'LEARY RD	SEC 5 T10N R 5E		OFF	32.75136111	-89.79883333
43	MADISON	SA450000000153	DRAINAGE DITCH	BURNS RD	SEC 17 T10N R 5E		OFF	32.71025	-89.81272222
44	MADISON	SA450000000188	LOVES CREEK	SIMPSON ROAD	SEC 12 T11N R 3E		OFF	32.81916667	-89.93555556
45	MADISON	SA450000000194	BRANCH WALNUT CREEK	MOSS ROAD	SEC 24 T 9N R 3E		OFF	32.60463889	-89.95161111
46	MADISON	SA450000000195	WALNUT CREEK	HART RD	SEC 27 T 9N R 3E		ON	32.59261111	-89.97347222
47	MADISON	SA450000000196	DRY CREEK	DRY CREEK ROAD	SEC 17 T10N R 4E		OFF	32.7075	-89.906
48	MADISON	SA450000000197	CREEK	PETRIFIED FOREST	SEC 20 T 8N R 1W		OFF	32.52872222	-90.32138889
49	MADISON	SA450000000A018	CREEK	GUS GREEN ROAD	SEC 29 T 8N R 1E		OFF	32.50733333	-90.21788889
50	MADISON	SA450000000A155	CANAL	DOBSON AVE	SEC 19 T 9N R 3E		OFF	32.61677222	-90.03243333

2018-2019 LIST OF NON-COMPLEX (SCOUR) BRIDGES
PER COUNTY

#	COUNTY	BRIDGE #	TRIBUTARY	ROAD OR HWY	LOCATION	SYS	LATITUDE	LONGITUDE
1	MADISON	SA450000000033	CREEK	YANDELL ROAD	SEC 24 T 8N R 2E B	ON	32.51933333	-90.03866667
2	MADISON	SA450000000047	PANTHER CREEK	VIRILLA ROAD	SEC 13 T 9N R 1E B	ON	32.63166667	-90.14527778
3	MADISON	SA450000000048	PANTHER CREEK	VIRILLA ROAD	SEC 13 T 9N R 1E B	ON	32.63055556	-90.14305556
4	MADISON	SA450000000054	CREEK	STOKES ROAD	SEC 28 T 9N R 1E B	OFF	32.59611111	-90.20244444
5	MADISON	SA450000000059	BURNT CANE CREEK	MOORE AVE	SEC 33 T 9N R 1W B	ON	32.58911111	-90.29666667
6	MADISON	SA450000000078	BCH OF WALNUT CREEK	HART ROAD	SEC 27 T 9N R 3E	OFF	32.60052778	-89.97344444
7	MADISON	SA450000000080	WALNUT CREEK	HART ROAD	SEC 27 T 9N R 3E	OFF	32.5905	-89.97344444
8	MADISON	SA450000000099	BEAR CREEK	OLD YAZOO CITY RD	SEC 33 T 10N R 2E B	OFF	32.67513889	-90.08966667
9	MADISON	SA450000000123	DOAKS CREEK	SULPHUR SPRINGS RD	SEC 18 T 10N R 5E B	ON	32.70605556	-89.82288889
10	MADISON	SA450000000130	HOBUCK CREEK	COOPER ROAD	SEC 15 T 11N R 4E	OFF	32.79558333	-89.87708333
11	MADISON	SA450000000132	BRANCH OF HOBOCK CREEK	LORING ROAD	SEC 20 T 11N R 4E B	ON	32.77805556	-89.91202778
12	MADISON	SA450000000135	HOBUCK RELIEF	LORING ROAD	SEC 20 T 11N R 4E B	ON	32.77816667	-89.90194444
13	MADISON	SA450000000137	BCH OF WATERMILL CREEK	CAMDEN ROAD	SEC 29 T 11N R 5E B	OFF	32.77752778	-89.81011111
14	MADISON	SA450000000147	RAMBO CREEK	ROCKY HILL ROAD	SEC 25 T 12N R 5E B	ON	32.86325	-89.73116667
15	MADISON	SA450000000148	BEAR CREEK	N OLD CANTON RD B	SEC 1 T 8N R 2E	ON	32.57055556	-90.04638889
16	MADISON	SA450000000154	CANAL	MILLER ST	SEC 19 T 9N R 3E	ON	32.61786111	-90.02466667
17	MADISON	SA450000000189	CREEK	STEED RD	SEC 24 T 7N R 1E	ON	32.44069444	-90.15336111