

FILED

AUG 23 2021

LESLI PENNY  
COUNTY & PROBATE COURT CLERK

MISC. ORDER NO. 2021-58

IN THE COUNTY COURT OF CRAIGHEAD COUNTY, ARKANSAS

IN THE MATTER OF AWARDED BIDS  
FOR ASPHALT SEALING AND STRIPING OF  
VARIOUS COUNTY ROADS

ORDER

COMES BEFORE THE COUNTY COURT THE MATTER OF AWARDED BIDS FOR  
SEALING AND STRIPING SECTIONS OF VARIOUS COUNTY ROADS.

BIDS WERE ADVERTISED AND PUBLICLY OPENED IN ACCORDANCE WITH  
ARKANSAS CODE 14-22-101 THROUGH 14-22-115 CONCERNING PUBLIC BIDDING.

EARLY START AND COMPLETION TIME FRAME FOR THE ROAD PROJECT IS  
IMPORTANT TO THE COUNTY TO HELP PREVENT FURTHER DETERIORATION OF  
COUNTY ROADS AND ALSO WILL ALLOW ARDOT SPECIFICATION COMPLIANCE.

THEREFORE CONSIDERED, ORDERED AND ADJUDGED THAT THE BEST OPTION FOR  
CRAIGHEAD COUNTY AND HAVING THE EARLIEST START AND COMPLETION TIME  
FRAME, AT A COST OF \$682,812.19, BE ACCEPTED FROM SALT CREEK  
PAVING, INC. 1525 MARYKAY, BENTON, AR 72018.

DATED THIS 23<sup>rd</sup> DAY OF AUGUST 2021.

APPROVED: \_\_\_\_\_

MARVIN DAY  
CRAIGHEAD COUNTY JUDGE

AA12  
3/5

FROM:

VENDOR'S COPY

## PURCHASE ORDER

SHOW THIS NO. ON ALL INVOICES,  
DELIVERY SLIPS, CASES, BOXES, ETC

Craighead County Purchasing Department  
c/o County Judge's Office  
511 Union, Room 119  
Jonesboro, AR 72401  
Phone 870-933-4500  
Fax 870-933-4504

CRAIGHEAD COUNTY  
ARKANSASPURCHASE  
ORDER

54373

TO: *SAIT Creek Paving Inc*  
*1525 Main St*  
*Benton, AR 72018*

DATE *AUGUST 23, 2021*  
Req. by: *Judge P*  
Req. No.:  
Bid No.: *2021-34*  
Charge to  
Account No.:

Please furnish the following to Craighead County  
and be governed by the instructions hereon.

ITEM	QUANTITY	BRAND, CATALOG NO. AND DESCRIPTION	UNIT PRICE	TOTAL
		<i>Seal/rap and striping various County Roads in Craighead County with estimated tons of chips + gallons of seal/rap, cost of striping &amp; road paint</i>		
		<i>CR 318 chips oil #1501 72,709.20 6.0491 4.0491</i>		<i>194,420.12</i>
		<i>CR 780 " " "</i>		<i>209,548.78</i>
		<i>CR 760 " " "</i>		<i>35,857.52</i>
		<i>CR 505,507,510 " " "</i>		<i>131,663.72</i>
		<i>CR 476 " " "</i>		<i>63,322.05</i>
		<i>TRAFFIC CONTROL/STRIPE MOBILIZER COST</i>		<i>28,000.00</i>
		<i>ALL ACCORDING TO BID SPECS IN BID #59 2021-34 Please include each of these separate supply documents with invoice</i>		
		<i>TOTAL</i>		<i>\$ 682,812.19</i>

TOTAL ►

SHIP TO:

*Craighead County Road Bldg.*  
*2800 Moore Rd*  
*Jonesboro, AR 72401*

DEL. PROMISED:

DEL. REQUIRED:

TERMS:

F.O.B. *JOB SITE*

PRICING:

I certify that all the above articles or services have been received  
in good order except as noted.

Dated \_\_\_\_\_ 20\_\_

Signed \_\_\_\_\_

CRAIGHEAD COUNTY

By \_\_\_\_\_

Purchasing Agent



[illegible]

AFFP

NOTICE TO BIDDERS Craighead Co

## Affidavit of Publication

STATE OF AR }  
COUNTY OF CRAIGHEAD } SS

Matthew Smith, being duly sworn, says:

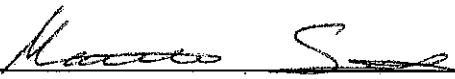
That he is Classified Director of the Jonesboro Sun, a daily newspaper of general circulation, printed and published in Jonesboro, Craighead County, AR; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

August 05, 2021

Publisher's Fee: \$ 78.00

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

  
Subscribed to and sworn to me this 5th day of August 2021.

  
Janet Melton, Notary Public 9/6/2022

RECEIVED

AUG 09 2021

FROM  
CRAIGHEAD COUNTY  
JUDGE'S OFFICE

### NOTICE TO BIDDERS

Craighead County is now accepting bids until 2:00 PM, August 17, 2021, local time, at the Craighead County Judge's office for the following:

Asphalt sealing and striping of various roads in Craighead County, Arkansas.

Bid specifications may be picked up at the County Judge's office, Craighead County Courthouse Annex, 511 Union St, Suite 119, Jonesboro, Arkansas, Monday through Friday, from 8:00 A.M. until 5:00 P.M.

Bids will be opened at 2:00 PM, August 17, 2021, local time, in the County Judge's office.

The County reserves the right to reject any or all bids or any part of any specific bid.

Bid specifications are available on the County Web Site at [www.craigheadcounty.org](http://www.craigheadcounty.org)

Al Haines  
Purchasing Agent  
Craighead County

00013656 70130810

CRAIGHEAD COUNTY JUDGES OFFICE  
511 UNION STE 119  
JONESBORO, AR 72401



From the Office of

**Marvin Day**

*Craighead County Judge*

**CRAIGHEAD COUNTY**  
ESTABLISHED 1859  
**ARKANSAS**

**NOTICE TO BIDDERS**

Craighead County is now accepting bids until 2:00 PM, August 17, 2021, local time, at the Craighead County Judge's office for the following:

Asphalt sealing and striping of various roads in Craighead County, Arkansas.

Bid specifications may be picked up at the County Judge's office, Craighead County Courthouse Annex, 511 Union St, Suite 119, Jonesboro, Arkansas, Monday through Friday, from 8:00 A.M until 5:00 P.M.

Bids will be opened at 2:00 PM, August 17, 2021, local time, in the County Judge's office.

The County reserves the right to reject any or all bids or any part of any specific bid.

Bid specifications are available on the County Web Site at [www.craigheadcounty.org](http://www.craigheadcounty.org)

Al Haines  
Purchasing Agent  
Craighead County

Please run August 5, 2021

against the estate must claim them, duly verified, to the undersigned within six (6) months from the first publication of this notice, or they shall be forever barred and precluded from any benefit in the estate.

This notice first published the 29 day of July, 2021.  
 Richie L. Tharp, Administrator  
 By: /s/ Chad R. Oldham (2002058)  
 OLDHAM LAW FIRM, PLLC  
 603 Southwest Drive  
 Jonesboro, AR 72401  
 Phone: (870) 930-9919

IN THE CIRCUIT COURT OF  
 SHARP COUNTY, ARKANSAS  
 PROBATE DIVISION  
 IN RE ESTATE OF WILLIE  
 PAUL MOONEY, DECEASED  
 CASE NO. PR-21-75  
 RHONDA PEELER  
 PETITIONER  
 NOTICE

Last known address of decedent: 45 W. Lakeshore Dr., Cherokee Village, Arkansas 72529

Date of Death: May 20, 2021

The Decedent's Last Will and Testament was admitted to Probate on July 26, 2021.

All persons having claims against the estate must exhibit them, duly verified, to the undersigned within six (6) months from the date of the first publication of this notice, or they shall be forever barred and precluded from any benefit in the estate.

This notice first published the 29 day of July, 2021.  
 Rhonda Peeler, Petitioner  
 By: Chad R. Oldham (2002058)  
 OLDHAM LAW FIRM, PLLC  
 603 Southwest Drive  
 Jonesboro, AR 72401  
 Phone: (870) 930-9919

#### NOTICE TO BIDDERS

Craighead County is now accepting bids until 2:00 PM, August 17, 2021, local time, at the Craighead County Judge's office for the following:

Asphalt sealing and striping of various roads in Craighead County, Arkansas.

Bid specifications may be picked up at the County Judge's office, Craighead County Courthouse Annex, 511 Union St, Suite 119, Jonesboro, Arkansas, Monday through Friday, from 8:00 A.M. until 5:00 P.M.

Bids will be opened at 2:00 PM, August 17, 2021, local time, in the County Judge's office.

The County reserves the right to reject any or all bids or any part of any specific bid.

Bid specifications are available on the County Web Site at [www.craigheadcounty.org](http://www.craigheadcounty.org)

Al Haines  
 Purchasing Agent  
 Craighead County



**...BECAUSE  
 MONEY  
 DOESN'T  
 GROW ON  
 TREES!**

HOUSEHOLD SIZE	ANNUAL
1	\$16,74
2	22,64
3	28,54
4	34,45
5	40,35
6	46,25
7	52,15
8	58,05
For each additional Family Member add	+5,90

(SNP-8)  
 Arkansas Aeroplex Head Start  
 2912 Lansing St. Bldg. 527  
 Gosnell, AR 72315  
 870/532-5393

Buffalo Island Central East HS  
 201 East 11th Street  
 Leachville, AR 72438  
 870/957-0791

Keiser Migrant Head Start  
 320 School St  
 Keiser, AR 72351  
 870/526-2532

Luxora ABC Pre-School  
 521 Canal St.  
 Luxora, AR 72358  
 870/658-7959

MCAEOC Wiley Center  
 1007 S. Franklin St  
 Blytheville, AR 72315  
 870/762-2096

MCAEOC North Elementary Ea  
 1230 West Semmes  
 Osceola, AR 72315  
 870/563-0895

**DO YOU  
 YOUR**

**Get  
 ADV**

CRAIGHEAD COUNTY  
INVITATION TO BID-Not an Order

Craighead County Judge's Office  
511 Union St. Suite 119  
Jonesboro, Arkansas 72401

PURCHASING OFFICE

BID NO. 2021-34

DATE August 3, 2021

Sealed bids, subject to the conditions on the attached hereof, and as may be attached hereto, will be received at this office until 2:00 PM August 17, 2021 and then publicly opened, for furnishing the supplies, materials, and/or services as described below.

Bids will be opened August 17, 2021  
2:00 P.M. Local Time

FOB Craighead County, Arkansas

BY: Al Haines  
Purchasing Director

- | Item # | DESCRIPTION  |
|--------|--|
| 1      | The intent of the attached specifications is to describe asphalt sealing, striping, traffic control, and type of materials to use for preserving various County Roads in Craighead County. |
| 2      | The successful bidder will furnish Craighead County a signed copy of all delivery receipts for each road or job, and will invoice the County for each job individually.                    |
| 3      | Does bidder meet all specifications? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>If no, please attach sheets explaining differences.                            |
| 4      | Successful bidder shall maintain bid price throughout the asphalt seal season.   |
| 5      | Bidder should specify approximate start date if awarded bid. Days _____  |
| 6      | Bidder shall quote price per gallon of asphalt sealer and mineral aggregate laid on roads and each job should be bid separately and should include traffic control and mobilization.       |
| 7      | Bid must be signed by an authorized representative or bid will be rejected.  |
| 8      | Bidder should return all pages of this bid package.  |
| 9      | Bid # 2021-34 must be noted on the outside of bidders envelope.  |
| 10     | Total cost per job should be shown on Bid Sheet Form   |

EXECUTION OF BID

Date Aug. 17, 2021

We, the undersigned, have read all the requirements set forth in this bid proposal including specifications, conditions, and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices instructions, stated.

Arkansas use Tax Register No. 00050485-5LS

Bidder GALT CREEK PAVING & CONST. CO., INC. Address P.O. Box 1379 Benton, AR. 72018  
By Michael Anderson City Benton Title PRESIDENT  
(Person Authorized to Sign Bids)

UNSIGNED BIDS WILL BE REJECTED

BIDS ARE SUBJECT TO REJECTION UNLESS SUBMITTED ON THIS FORM

NOTICE TO BIDDERS, SEE REVERSE SIDE OR ATTACHMENTS FOR INSTRUCTIONS AND CONDITIONS.



CRAIGHEAD COUNTY  
JONESBORO, ARKANSAS

CONDITIONS OF BIDDING

Compliance with the following conditions is necessary for consideration of this bid.

- 1 Signature-This bid must be signed with the firm name and by an authorized officer, employee or agent.
  - 2 Sales Tax-Is to be shown in the bid price, but is to be listed as separate line item.
  - 3 The County is not exempt from Arkansas State Sales Tax. Contractors are to include all costs into the bid price, including applicable taxes.
  - 4 Freight and other delivery charges-to destination at designated County job site in the County must be included in bid. Charges may not be added after the bid is opened.
  - 5 Discounts-Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise County will deduct allowed discount when payment is made.
  - 6 Firm Price-All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the County or bidder
  - 7 Identical Bids-In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders, or split in any proportion between the said two or more bidders at discretion of the County.
  - 8 Clean up-Complete cleanup and proper disposal of any and all job related items is considered to be a part of any contract let by Craighead County.
  - 9 Ambiguity in bid-Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the County.
  - 10 Construction
    - A. When requested, the Contractor is to supply the County with evidence of having and maintaining proper and specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability, and Property Damage. All premiums and cost shall be paid by Contractor. In no way will the County be responsible in case of accident.
    - B. A Performance Bond equaling the total amount of any bid exceeding \$20,000 must be provided for erection of any public building, public structure, or public improvement (Pursuant to Arkansas Code 18-44-503.)
- The County reserves the right to reject any and all bids, accept in whole or in part, to waive informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the County may accept the bid for the lesser amount whether reflected by extension or by the correct multiple of the unit price.

INSTRUCTIONS TO BIDDERS

(Please read carefully)

- 1 Submit bid on bid form attached.
- 2 Address all bids to: Purchasing Director, Craighead County Judge's Office, 511 Union St., Suite 110, Jonesboro, Arkansas 72401 and make certain to indicate identifying bid number on the outside of bid envelope.
- 3 DO NOT include Federal Excise Tax in bid. County will furnish exemption certificate.
- 4 Bids received after stated time will not be considered.
- 5 Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.
- 6 Guarantees and warranties should be attached as a part of the bid, as they may be a consideration in awarding contract.
- 7 Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
- 8 Additional information may be obtained from the Purchasing Department.
- 9 Point of contact will be Marvin Day at 243-6453

COUNTY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS  
AND TO ACCEPT BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.

### SPECIFICATIONS

1 Scope: As part of the ongoing asphalt preservation on various county roads, We are requesting bids for  
sealing various county roads according to the attached specifications.

2 The work will be done in accordance with the current ARDOT specifications for sealing asphalt roads.

3 Each job listed below must be bid separately.

4 See attached specifications indicating road numbers, locations, and job numbers for sealing, striping  
traffic control, and fog sealing various roads in Craighead County.

5 Craighead County stipulates that the successful bidder will do other sealing jobs at the bid price  
should other monies become available to Craighead County.

6 Craighead County reserves the right to accept, reject, in whole or in part, to  
waive informalities in bids received, or accept bids with variations.

7 Traffic control shall be responsibility of contractor. Any damages to property, vehicles, persons, or any other  
incidents or accidents shall be the liability of the contractor.

8 Mobilization costs should be listed as a separate item.

9 All applications of product of sealing, striping, traffic control, and related jobs in this bid package shall be  
according to attached specifications.

10 Signage shall be placed at all road intersections according to the Traffic Control Devices specifications as  
noted with the State Highway department road numbers for each job section.

There are no seasonal limitations for this project. The county will work with contractor to determine if  
the job need to be continued into next spring.

# Bid Sheet Form

Job number of County Roads to be sealed and striped

County Road	Est miles	Item	Quantity	Unit Price	Extension
Job 1 CR 318 Section 1	4.92	Asphalt Preservation			
		Mineral Aggregate	824.8 tons	\$ 72.70	\$ 59,962.96
		CMS-PC	19795.3 gallons	\$ 4.40	\$ 87,099.32
		Fog Seal	6598.4 gallons	\$ 4.50	\$ 29,692.80
		Pavement markings yellow(4")	51956 feet	\$ 0.17	\$ 8,832.52
		Pavement markings white(4")	51956 feet	\$ 0.17	\$ 8,832.52
		Pavement markings white(8")	0 feet	\$ 0	\$ 0
Job 2 CR 780 Section 2	5.74	Asphalt Preservation			
		Mineral Aggregate	886.5 tons	\$ 72.70	\$ 64,448.55
		CMS-PC	21276.6 gallons	\$ 4.40	\$ 93,617.04
		Fog Seal	7092.2	\$ 4.50	\$ 31,914.90
		Pavement markings yellow(4")	54023.0 feet	\$ 0.17	\$ 9,183.91
		Pavement markings white(4")	60614.0 feet	\$ 0.17	\$ 10,304.38
		Pavement markings white(8")	40 feet	\$ 2.00	\$ 80.00
Job 3 CR 760 Section 3	0.98	Asphalt Preservation			
		Mineral Aggregate	150.9 tons	\$ 72.70	\$ 10,970.43
		CMS-PC	3621.8 gallons	\$ 4.40	\$ 15,935.92
		Fog Seal	1207.3 gallons	\$ 4.50	\$ 5,432.85
		Pavement markings yellow(4")	10348.0 feet	\$ 0.17	\$ 1,759.16
		Pavement markings white(4")	10348.0 feet	\$ 0.17	\$ 1,759.16
		Pavement markings white(8")	0 feet	\$ 0	\$ 0
Job 4 CR 505,507,510 Section 4	4.42	Asphalt Preservation			
		Mineral Aggregate	572.0 tons	\$ 72.70	\$ 41,504.40
		CMS-PC	13728.0 gallons	\$ 4.40	\$ 60,403.20
		Fog Seal	4576.0 gallons	\$ 4.50	\$ 20,592.00
		Pavement markings yellow(4")	12252.0 feet	\$ 0.17	\$ 2,082.84
		Pavement markings white(4")	41184.0 feet	\$ 0.17	\$ 6,991.28
		Pavement markings white(8")	0 feet	\$ 0	\$ 0
Job 5 CR 476 Section 5	1.76	Asphalt Preservation			
		Mineral Aggregate	280.9 tons	\$ 72.70	\$ 20,421.48
		CMS-PC	6741.5 gallons	\$ 4.40	\$ 29,662.60
		Fog Seal	2247.2 gallons	\$ 4.50	\$ 10,112.40
		Pavement markings yellow(4")	18386.0 feet	\$ 0.17	\$ 3,125.62
		Pavement markings white(4")	0 feet	\$ 0	\$ 0
		Pavement markings white(8")	0 feet	\$ 0	\$ 0
Traffic Control/Temporary Signage				\$ 28,000.00	\$ 28,000.00
Mobilization Cost(not to exceed 5%)				\$ 20,000.00	\$ 20,000.00
Bid according to Attached Specifications:				Total Bid	\$ 682,812.19
Surfacing Quantities					
Reflectorized Paint Pavement Marking					
Traffic Control Devices					

Salt Creek Paving & Construction Co., Inc.  
P. O. Box 1379 ~ Benton, AR 72018-1379  
Ph# 501-315-6833 ~ Fax# 501-315-6838  
Email ~ [saltcreekpaving@gmail.com](mailto:saltcreekpaving@gmail.com)

Date: August 17, 2021

To: Purchasing Agent  
% Al Haines  
Craighead County

From: Richard Christian  
Salt Creek Paving & Const. Co.

Re: Please find attached bid for:  
Asphalt Chip Sealing and Striping  
Bid# 2021-34  
To be opened: Tuesday, August 17, 2021 @ 2:00 p.m.

\*\* Please note that weather permitting, it is our intent to complete the work this year.

**Salt Creek Paving & Construction Co., Inc.**  
**P. O. Box 1379 ~ Benton, AR 72018-1379**  
**Ph# 501-315-6833 ~ Fax# 501-315-6838**  
**Email ~ saltcreekpaving@gmail.com**

Date: August 23, 2021

To: Al Haines  
Purchasing Agent  
Craighead County

From: Rick Christian  
President  
Salt Creek Paving & Const. Co.

Re: Craighead Co.  
Scrub and Fog Seal 2021

We are in receipt of your email this morning and would like to say, if awarded the above referenced project, our schedule would be as follows assuming the project was awarded by Friday, August 27<sup>th</sup>.

- August 30<sup>th</sup> – Sept. 10<sup>th</sup> – Locate stockpile sites, haul Class 4 Chips to site, and mobilize equipment.
- Sept. 13<sup>th</sup> – Sept. 17<sup>th</sup> – Start the Scrub Seal no later than September 15<sup>th</sup>.
- Sept. 20<sup>th</sup> – Sept. 30<sup>th</sup> – Continue the Scrub Seal and finish it by September 30<sup>th</sup>.
- Oct. 1<sup>st</sup> – Oct. 15<sup>th</sup> – Fog Seal and Striping to be completed.

We project eight days to complete the Scrub Seal and four days to complete the Fog Seal. We have two ARDOT projects we will need to seal in the Sept. 13<sup>th</sup> – Sept. 30<sup>th</sup> period, however, they are small. We have enough equipment to not have to demobilize and re-mobilize. Of course, we cannot control the weather, but if it stays dry, we should make this schedule.

I hope this answers your questions but, if not or if you need more information, please contact me at my office @ 501-315-6833 or my cell @ 501-920-4794.

Thank you again for the opportunity to quote this project.

RC/rk

**BID BOND**

Conforms with The American Institute of  
Architects, A.I.A. Document No. A-310

KNOW ALL BY THESE PRESENTS, That we, Salt Creek Paving & Construction Company, Inc.

\_\_\_\_\_ as Principal, hereinafter called the Principal,  
and the Employers Mutual Casualty Company

of P.O. Box 712, Des Moines, Iowa, a corporation duly organized under  
the laws of the State of Iowa, as Surety, hereinafter called the Surety, are held and firmly bound unto

Craighead County, Arkansas as Obligee, hereinafter called the Obligee,  
in the sum of Five Percent of Amount of Bid

Dollars (\$ 5% of Bid ), for the payment of which sum well and truly to be made, the said Principal and the said  
Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for Job #2021-34 Asphalt Sealing and Striping, Craighead County, Arkansas

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the  
Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract  
Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and  
material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond  
or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said  
bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said  
bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 17th day of August, 2021

[Signature]  
Witness

Salt Creek Paving & Construction Company, Inc. (Seal)  
[Signature] Principal  
Title

[Signature]  
Witness

Employers Mutual Casualty Company  
By [Signature] Judy Schoggen  
Judy Schoggen Attorney-in-Fact



## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, that:

1. Employers Mutual Casualty Company, an Iowa Corporation
2. EMCASCO Insurance Company, an Iowa Corporation
3. Union Insurance Company of Providence, an Iowa Corporation

4. Illinois EMCASCO Insurance Company, an Iowa Corporation
5. Dakota Fire Insurance Company, a North Dakota Corporation
6. EMC Property & Casualty Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:

BENSON A CASHION, JUDY SCHOGGEN, MATTHEW K. CASHION JR, MICHAEL G. DORNBLASER, LEE W. JACKSON, JULIE MARTIN, DANETTE WARD, LOLA BURTON, HOLLY CLEVENGER, JOHN A. DAVIE

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute the Surety Bond:

### Any and All Bonds

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

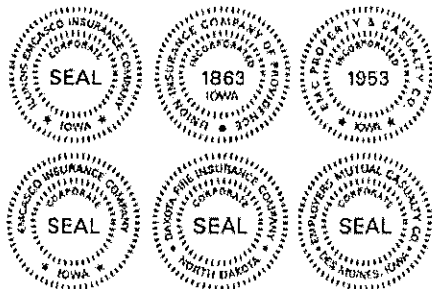
The authority hereby granted shall expire October 10th, 2022, unless sooner revoked.

## AUTHORITY FOR POWER OF ATTORNEY

This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at the first regularly scheduled meeting of each company duly called and held in 1999:

**RESOLVED:** The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS THEREOF, the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this 30th day of March, 2020.



*Scott R. Jean*  
Scott R. Jean, President & CEO  
of Company 1; Chairman, President  
& CEO of Companies 2, 3, 4, 5 & 6

*Todd Strother*  
Todd Strother, Executive Vice President  
Chief Legal Officer & Secretary of  
Companies 1, 2, 3, 4, 5 & 6

On this 30th day of March, 2020 before me a Notary Public in and for the State of Iowa, personally appeared Scott R. Jean and Todd Strother, who, being by me duly sworn, did say that they are, and are known to me to be the CEO, Chairman, President, Executive Vice President, Chief Legal Officer and/or Secretary, respectively, of each of the Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Scott R. Jean and Todd Strother, as such officers, acknowledged the execution of said instrument to be their voluntary act and deed, and the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2022.



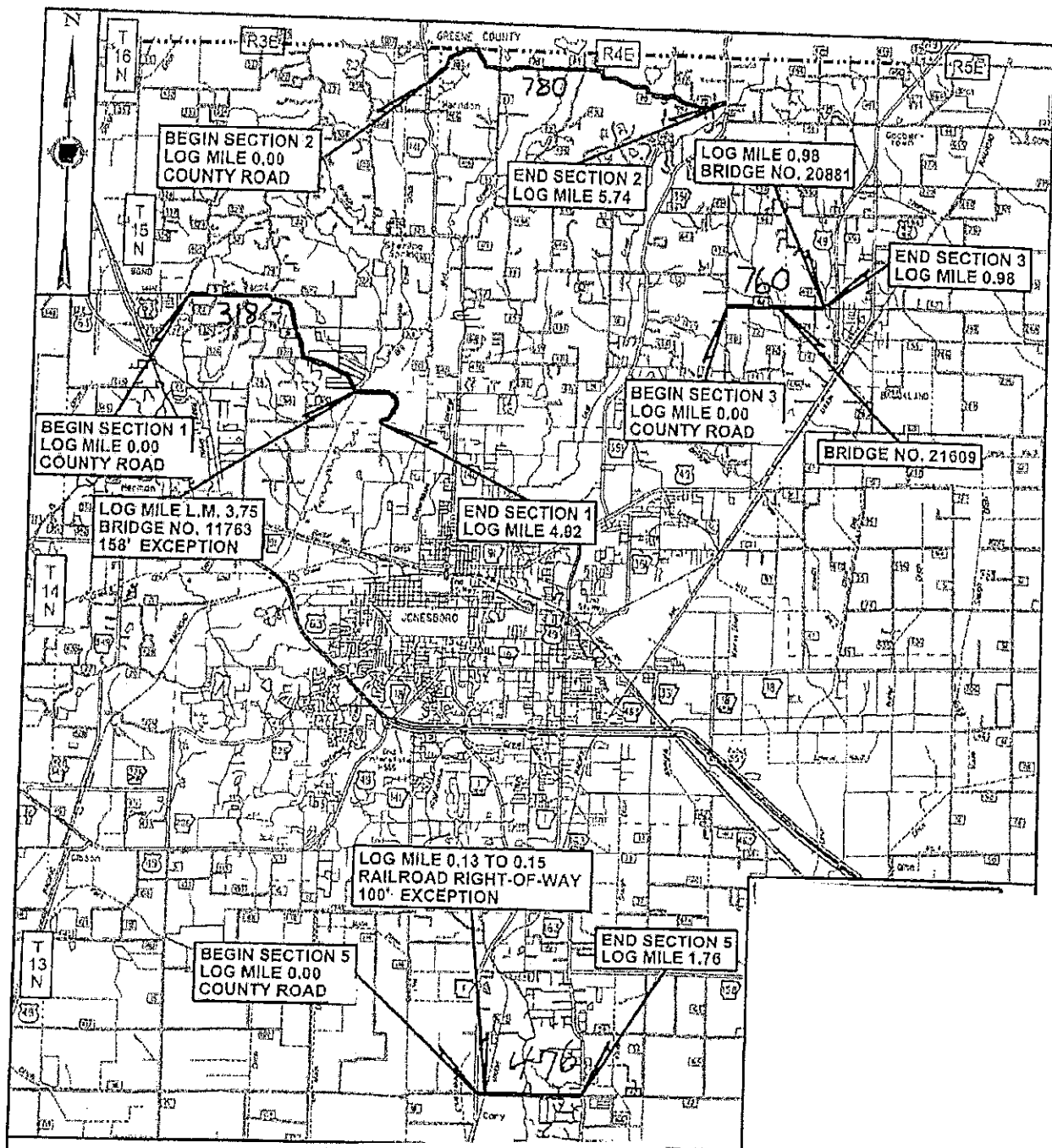
*Kathy Loveridge*  
Notary Public in and for the State of Iowa

## CERTIFICATE

I, James D. Clough, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on 30th day of March, 2020, are true and correct and are still in full force and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 17th day of August, 2021.

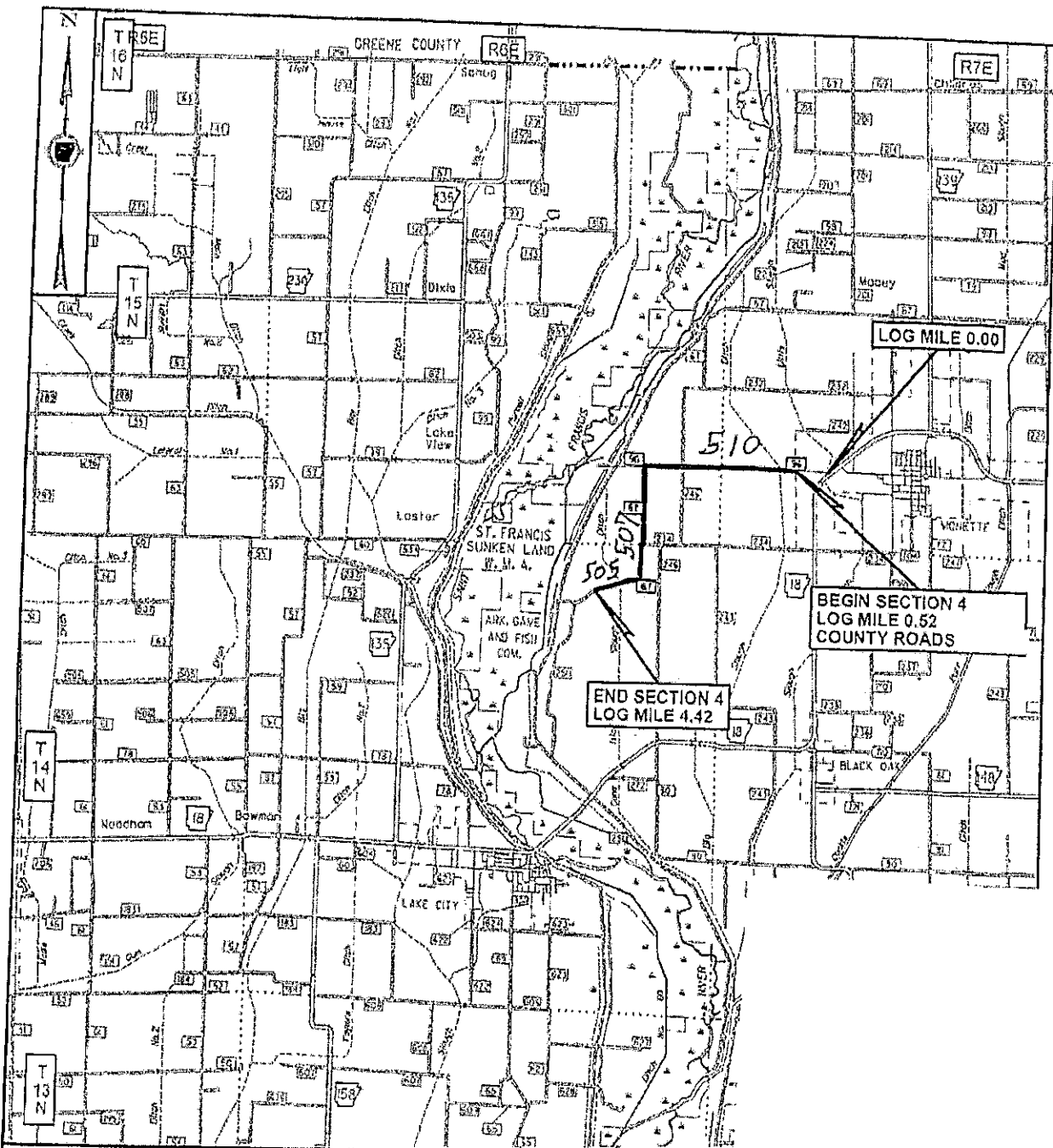
*J D Clough*  
Vice President



**CRAIGHEAD CO. SEALING  
VARIOUS COUNTY ROADS  
CRAIGHEAD COUNTY**

APPROXIMATE BEGINNING OF SECTION 1  
LATITUDE: N 35° 54' 32"  
LONGITUDE: W 90° 46' 58"





**CRAIGHEAD CO. SEALING  
VARIOUS COUNTY ROADS  
CRAIGHEAD COUNTY**

APPROXIMATE BEGINNING OF SECTION 4  
LATITUDE: N 35° 53' 29"  
LONGITUDE: W 90° 22' 26"

Feb

## SURFACING QUANTITIES

LOCATION	LOG MILE		LENGTH	SINGLE ASPHALT SURFACE TREATMENT					FOG SEAL (TYPE 2)	
				WIDTH	SQ. YDS.	MIN. AGGR. (CLASS 4)	ASPHALT (CMS-1PC)	GAL.		
	FROM	TO	LIN. FT.			TONS	GAL.	GAL.		
MAIN LANES			SECTION 1 - COUNTY ROAD 318							
(158' EXCEPTION @ BRIDGE NO. 11763)			0.00	4.92	25820	23.00	65984.4	824.8	19795.3	6598.4
MAIN LANES			SECTION 2 - COUNTY ROAD 780							
COUNTY ROAD 70 AT L.M. 0.00	0.00	5.74	30307	21.00	70716.3	884.0	21214.9	7071.6		
COUNTY ROAD 70 AT L.M. 5.74					97.9	1.2	29.4	9.8		
					107.7	1.3	32.3	10.8		
MAIN LANES			SECTION 3 - COUNTY ROAD 760							
	0.00	0.98	5174	21.00	12072.7	150.9	3621.8	1207.3		
MAIN LANES			SECTION 4 - COUNTY ROADS 505, 507, 510							
	0.52	4.42	20592	20.00	45760.0	572.0	13728.0	4576.0		
MAIN LANES			SECTION 5 - COUNTY ROAD 476							
(100' EXCEPTION @ RAILROAD RIGHT-OF-WAY)	0.00	1.76	9193	22.00	22471.8	280.9	6741.5	2247.2		
	0.13	0.15								
TOTALS:										
USE:										
							2715	65163.2	21721.1	
							2715	65163		

BASIS OF ESTIMATE

BASIS OF ESTIMATE:

FOG SEAL (TYPE 2)

REJUVENATING EMULSIFIED ASPHALT (CMS-1PC)

MINERAL AGGREGATE IN SINGLE ASPHALT SURFACE TREATMENT (CLASS 4)

RATES OF APPLICATION FOR MINERAL AGGREGATE AND ASPHALT SURFACE TREATMENT ARE FOR ESTIMATION PURPOSES ONLY.  
 EXACT RATES OF APPLICATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

0.10 GAL. PER SQ. YD.

0.30 GAL. PER SQ. YD.

25 POUND PER SQ. YD.

# REFLECTORIZED PAINT PAVEMENT MARKING

DESCRIPTION	LOG MILE		YELLOW MARKING	WHITE MARKING	
	FROM	TO	4"	4"	8"
SECTION 1 - COUNTY ROAD 318					
MAIN LANES - CONTINUOUS	0.00	4.92	51956	51956	
SECTION 2 - COUNTY ROAD 780					
MAIN LANES - CONTINUOUS	0.00	5.74	50310	60614	
MAIN LANES - SKIP/SOLID	0.00	5.74	3031		
MAIN LANES - SKIP	0.00	5.74	682		
ISLAND AT BEGINNING OF SECTION					40
SECTION 3 - COUNTY ROAD 760					
MAIN LANES - CONTINUOUS	0.00	0.98	10348	10348	
SECTION 4 - COUNTY ROADS 505, 507, 510					
MAIN LANES - CONTINUOUS	0.52	4.42	5766	41184	
MAIN LANES - SKIP/SOLID	0.52	4.42	2574		
MAIN LANES - SKIP	0.52	4.42	3912		
SECTION 5 - COUNTY ROAD 476					
MAIN LANES - CONTINUOUS	0.09	1.76	18386		
(100' EXCEPTION @ RAILROAD RIGHT-OF-WAY)					
TOTALS:			146965	164102	40

THIS IS A LOW VOLUME ROAD AS DEFINED IN SECTION 604.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

# TRAFFIC CONTROL DEVICES (BOX 1 OF 2)

LOCATION	W20-1												
	1500 FT.		1000 FT.		500 FT.		AHEAD		G20-1		G20-2		
	NO.	SO. FT.	NO.	SO. FT.	NO.	SO. FT.	NO.	SO. FT.	NO.	SO. FT.	NO.	SO. FT.	
BEGIN SECTION			SECTION 1 - COUNTY ROAD 318										
COUNTY ROAD 28	1	16.00	1	16.00	1	16.00							
COUNTY ROAD 320							2	32.00		1	10.00	1	8.00
COUNTY ROADS 319 & 339							2	32.00					
END SECTION	1	16.00	1	16.00	1	16.00	2	32.00		1	10.00	1	8.00
BEGIN SECTION			SECTION 2 - COUNTY ROAD 780										
COUNTY ROAD 93													
COUNTY ROAD 89							2	32.00		1	10.00	1	8.00
COUNTY ROAD 492							2	32.00					
END SECTION							1	16.00					
										1	10.00	1	8.00
BEGIN SECTION			SECTION 3 - COUNTY ROAD 760										
COUNTY ROAD 72													
COUNTY ROAD 497													
END SECTION	1	16.00	1	16.00	1	16.00	1	16.00				1	8.00
SUBTOTALS (BOX 1 OF 2):	3	48.00	3	48.00	3	48.00	15	240.00		4	40.00	6	48.00

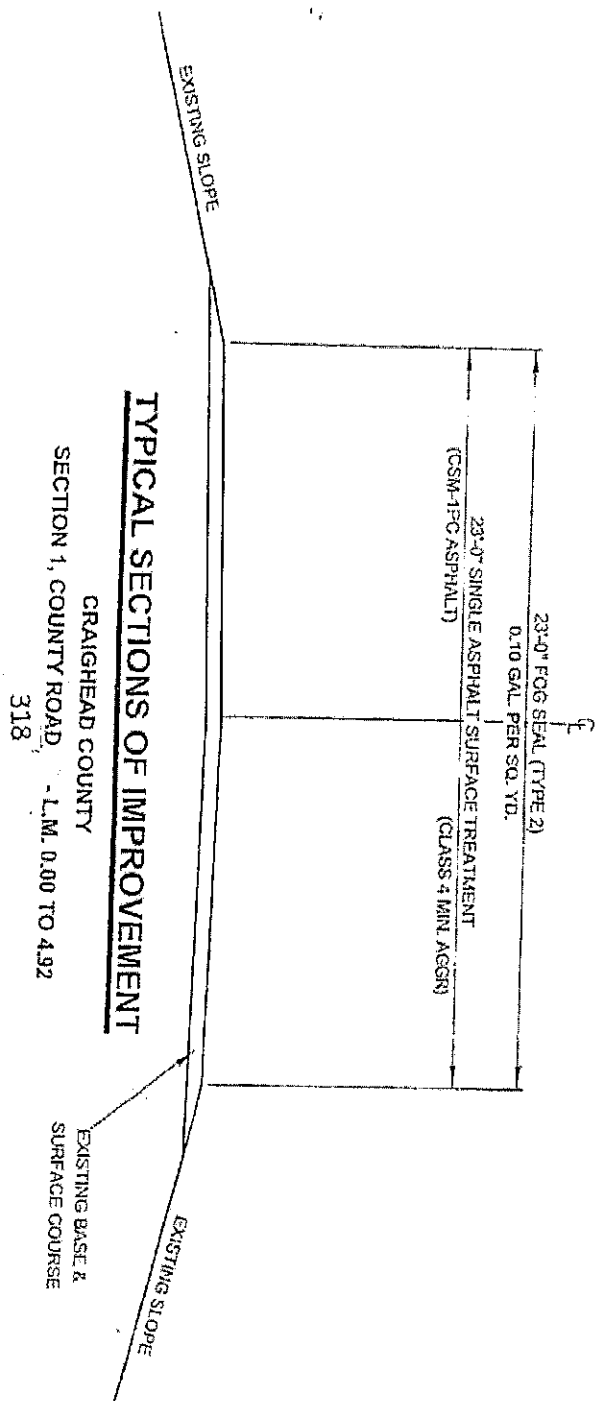
SECTION 2 - COUNTY ROAD 780

SECTION 3 - COUNTY ROAD 760

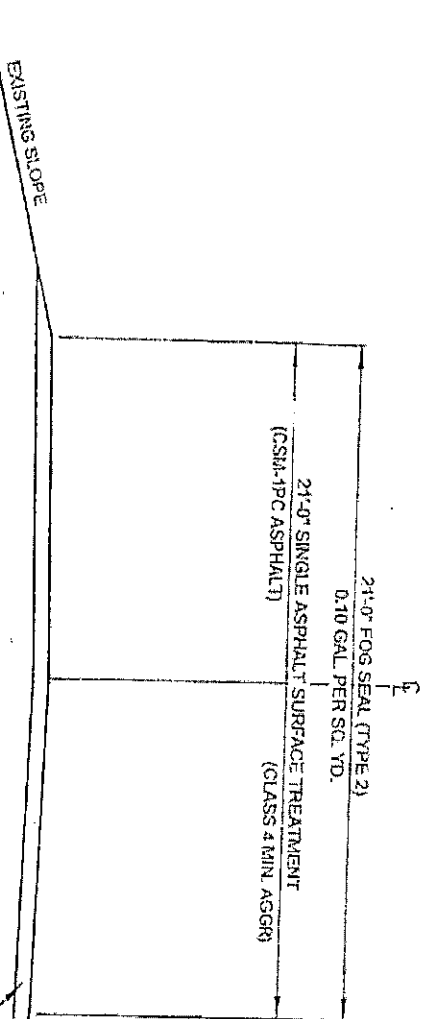
## W20-1

LOCATION	W20-1										G20-1	G20-2
	1500 FT.		1000 FT.		500 FT.		AHEAD					
	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.
SECTION 4 - COUNTY ROADS 505, 507, 510												
BEGIN SECTION												
COUNTY ROAD 201	1	16.00	1	16.00	1	16.00			1	10.00	1	8.00
COUNTY ROAD 246												
COUNTY ROAD 234												
COUNTY ROAD 67												
END SECTION	1	16.00	1	16.00	1	16.00			1	10.00	1	8.00
SECTION 5 - COUNTY ROAD 4/6												
BEGIN SECTION												
COUNTY ROAD 413									1	10.00	1	8.00
COUNTY ROAD 403												
COUNTY ROAD 475												
COUNTY ROAD 461												
COUNTY ROAD 457												
END SECTION									1	16.00		
SUBTOTALS (BOX 2 OF 2):												
TOTALS:	2	32.00	2	32.00	2	32.00	10	160.00	4	40.00	4	32.00
TOTAL:	5	80.00	5	80.00	5	80.00	25	400.00	8	80.00	10	80.00
												800.00

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.



NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.



### TYPICAL SECTIONS OF IMPROVEMENT

#### CRAIGHEAD COUNTY

SECTION 2, COUNTY ROAD - L.M. 0.00 TO 5.74  
SECTION 3, COUNTY ROAD - L.M. 0.00 TO 0.98

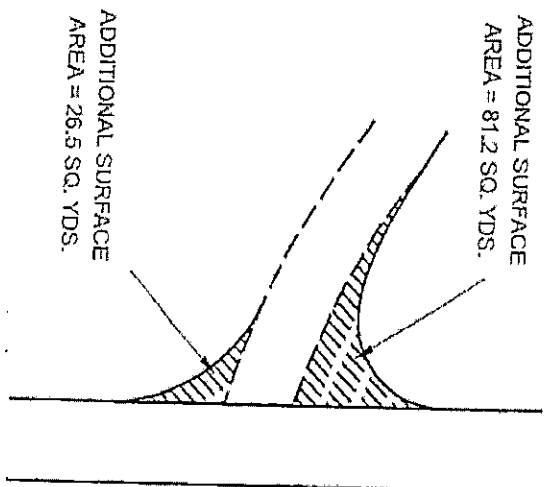
780

760

EXISTING BASE &  
SURFACE COURSE

EXISTING SLOPE

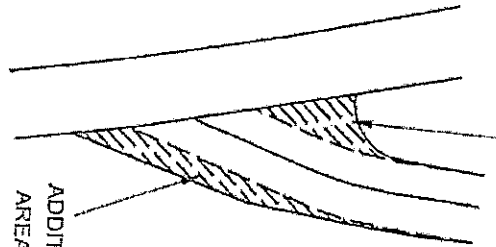
EXISTING SLOPE



COUNTY ROAD 780 TURNOUT AT SECTION 2 L.M. 5.74  
ADDITIONAL SURFACE AREA = 107.7 SQ. YDS.



ADDITIONAL SURFACE  
AREA = 37.8 SQ. YDS.

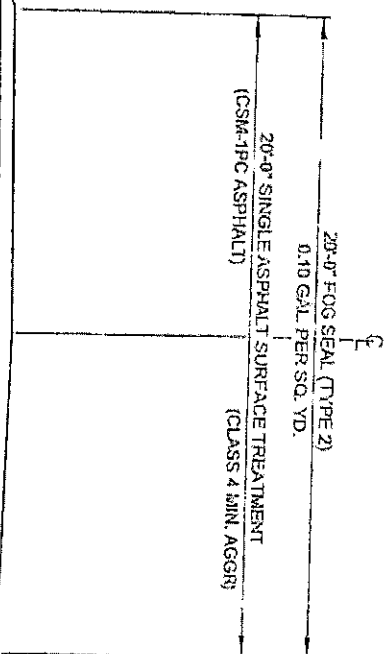


ADDITIONAL SURFACE  
AREA = 60.1 SQ. YDS.

COUNTY ROAD 780 TURNOUT AT SECTION 2 L.M. 0.00  
ADDITIONAL SURFACE AREA = 97.9 SQ. YDS.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.

EXISTING SLOPE



### TYPICAL SECTIONS OF IMPROVEMENT

CRAIGHEAD COUNTY

SECTION 4, COUNTY ROADS

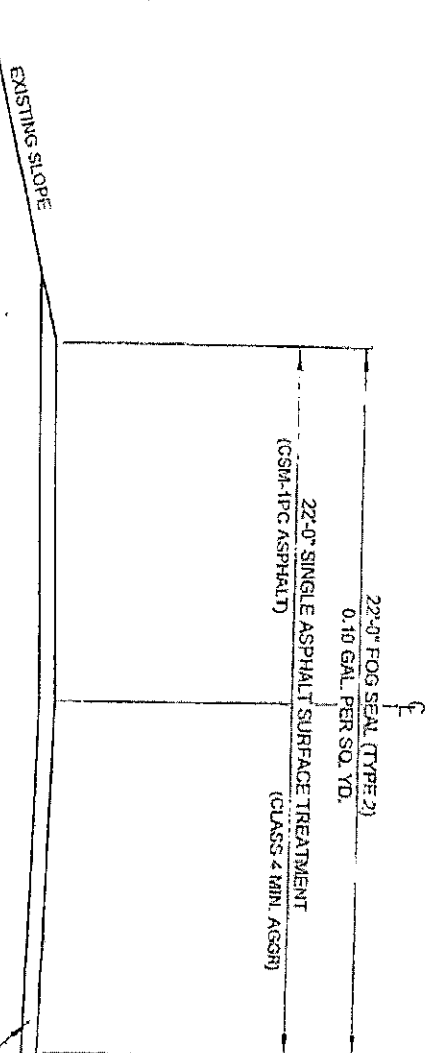
- L.M. 0.52 TO 4.42

505,507,510

EXISTING BASE &  
SURFACE COURSE

EXISTING SLOPE

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.



### TYPICAL SECTIONS OF IMPROVEMENT

CRAIGHEAD COUNTY

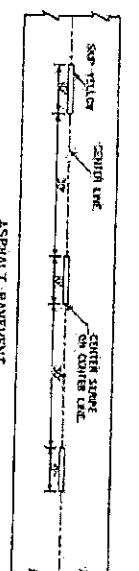
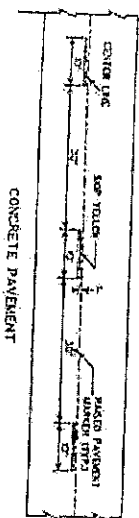
SECTION 5, COUNTY ROAD L.M. 0.00 TO 1.76

476

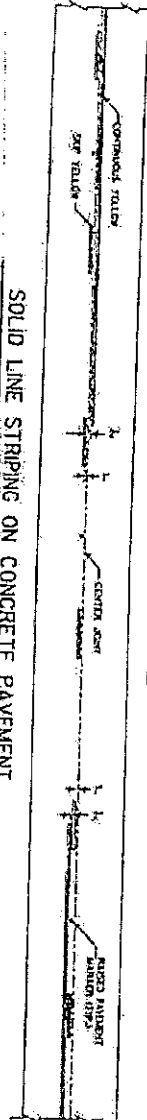
# GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION,  
EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.

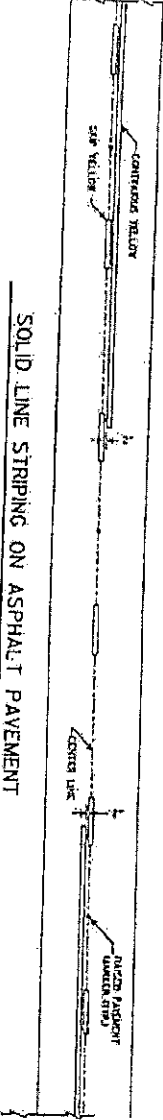
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
306-1	QUALITY CONTROL AND ACCEPTANCE
400-2	ASPHALT SURFACE TREATMENT
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
723-1	GENERAL REQUIREMENTS FOR SIGNS
729-1	CHANNEL POST SIGN SUPPORT
JOB SA1664	BIDDING REQUIREMENTS AND CONDITIONS
JOB SA1664	FOG SEAL
JOB SA1664	MANDATORY ELECTRONIC CONTRACT
JOB SA1664	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB SA1664	REJUVENATING MASS CRACK TREATMENT



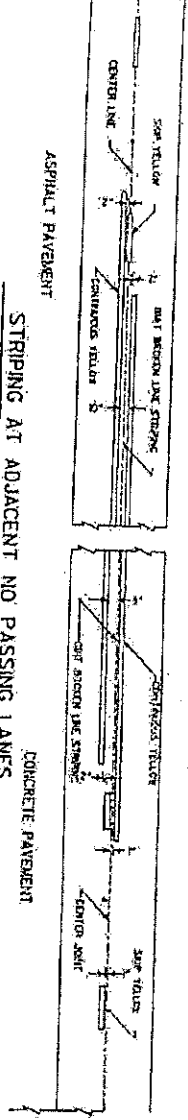
### BROKEN LINE STRIPING



### SOLID LINE STRIPING ON CONCRETE PAVEMENT



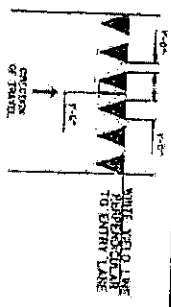
### SOLID LINE STRIPING ON ASPHALT PAVEMENT



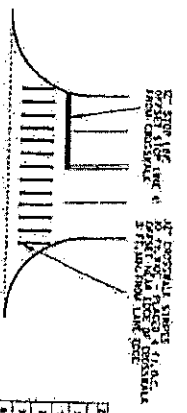
### ASPHALT PAVEMENT

### STRIPING AT ADJACENT NO PASSING LANES

### CONCRETE PAVEMENT



### YIELD LINE DETAIL



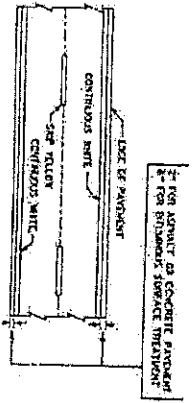
### CROSSWALK AND STOP LINE DETAILS

DATE	BY	CHKD	REVISED
10-1-80	W. J. BROWN	J. L. BROWN	1
10-1-80	W. J. BROWN	J. L. BROWN	2
10-1-80	W. J. BROWN	J. L. BROWN	3
10-1-80	W. J. BROWN	J. L. BROWN	4
10-1-80	W. J. BROWN	J. L. BROWN	5
10-1-80	W. J. BROWN	J. L. BROWN	6
10-1-80	W. J. BROWN	J. L. BROWN	7
10-1-80	W. J. BROWN	J. L. BROWN	8
10-1-80	W. J. BROWN	J. L. BROWN	9
10-1-80	W. J. BROWN	J. L. BROWN	10

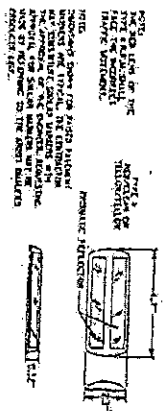
### PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

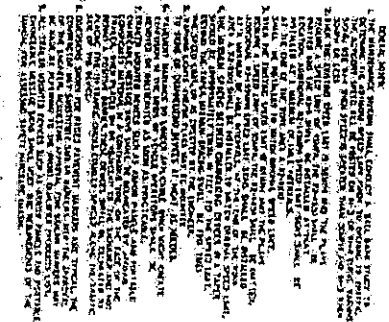
- NOTES:
1. REFER TO THE STRIPING DETAILS FOR THE STRIPING DETAILS FOR THE STRIPING.
  2. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  3. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  4. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  5. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  6. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  7. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  8. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  9. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.
  10. THE STRIPING SHALL BE DONE IN CONFORMANCE WITH THE STRIPING SPECIFICATIONS.



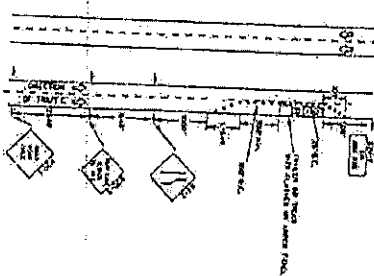
### PAVEMENT EDGE LINE MARKING



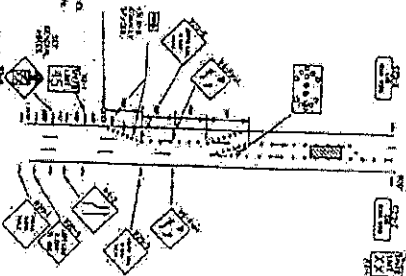
### DETAIL OF STANDARD RAISED PAVEMENT MARKERS



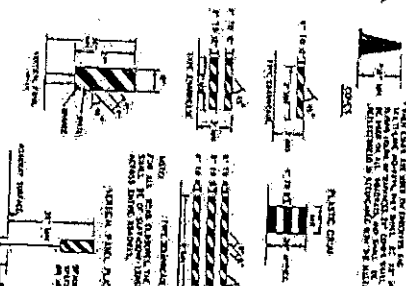
(A) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF LIGHT BARRIER ON A



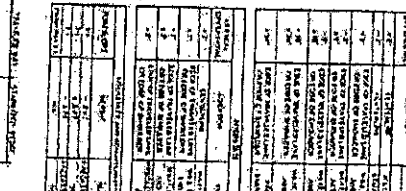
(B) TRUCK APPROACH - 3-4' LIGHT BARRIER POSITIONING



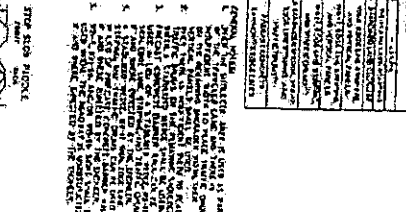
(C) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



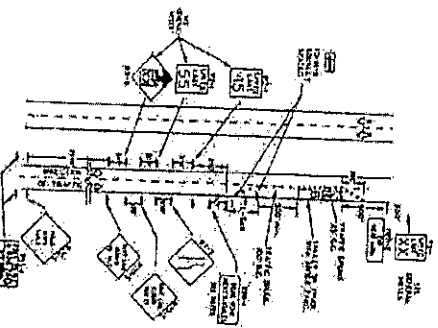
(D) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



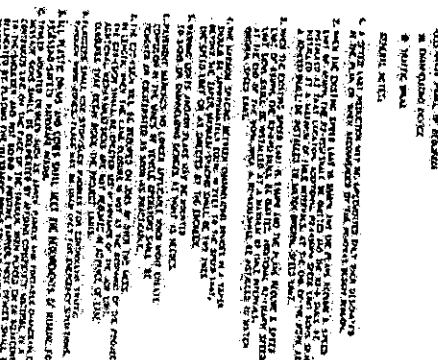
(E) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



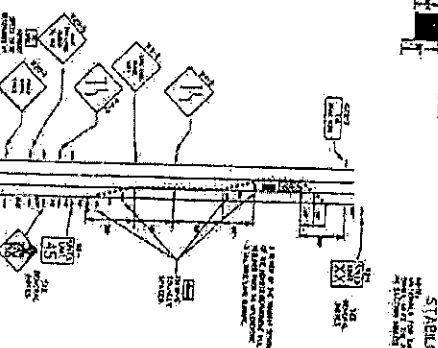
(F) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



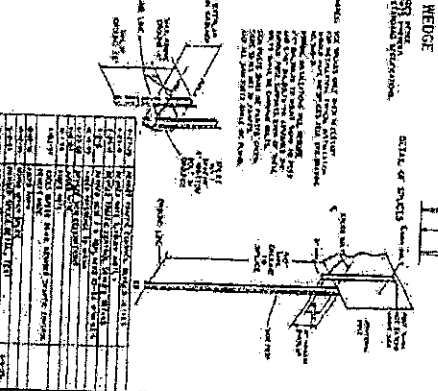
(G) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



(H) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



(I) TRUCK APPROACH - CENTER BARRICADE POSITIONING OF A 3-4' LIGHT BARRIER



**STABILIZED WEDGE**

1. The stabilized wedge is a device used to stabilize a vehicle or structure. It is made of a heavy material, such as concrete or steel, and is shaped like a wedge. It is placed behind the vehicle or structure to provide additional support and stability.

2. The stabilized wedge is used in a variety of applications, including:
 

- Stabilizing a vehicle or structure during a rescue or recovery operation.
- Stabilizing a vehicle or structure during a construction or demolition project.
- Stabilizing a vehicle or structure during a fire or explosion.

3. The stabilized wedge is a simple and effective device that can be used in a wide range of situations. It is a valuable tool for anyone involved in emergency response or construction work.

**STABILIZED WEDGE**

1. The stabilized wedge is a device used to stabilize a vehicle or structure. It is made of a heavy material, such as concrete or steel, and is shaped like a wedge. It is placed behind the vehicle or structure to provide additional support and stability.

2. The stabilized wedge is used in a variety of applications, including:
 

- Stabilizing a vehicle or structure during a rescue or recovery operation.
- Stabilizing a vehicle or structure during a construction or demolition project.
- Stabilizing a vehicle or structure during a fire or explosion.

**STABILIZED WEDGE**

1. The stabilized wedge is a device used to stabilize a vehicle or structure. It is made of a heavy material, such as concrete or steel, and is shaped like a wedge. It is placed behind the vehicle or structure to provide additional support and stability.

ITEM	DESCRIPTION	QUANTITY	REMARKS
1	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
2	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
3	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
4	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
5	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
6	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
7	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
8	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
9	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
10	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.

ITEM	DESCRIPTION	QUANTITY	REMARKS
1	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
2	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
3	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
4	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
5	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
6	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
7	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
8	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
9	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.
10	STABILIZED WEDGE	1	Used to stabilize the vehicle during the rescue operation.

DATE	DESCRIPTION	AMOUNT	BALANCE
1/1/71	OPENING BALANCE		100.00
1/15/71	PAID TO BANK	25.00	75.00
2/1/71	RECEIVED FROM BANK	50.00	125.00
2/15/71	PAID TO BANK	30.00	95.00
3/1/71	RECEIVED FROM BANK	40.00	135.00
3/15/71	PAID TO BANK	20.00	115.00
4/1/71	RECEIVED FROM BANK	35.00	150.00
4/15/71	PAID TO BANK	15.00	135.00
5/1/71	RECEIVED FROM BANK	45.00	180.00
5/15/71	PAID TO BANK	25.00	155.00
6/1/71	RECEIVED FROM BANK	55.00	210.00
6/15/71	PAID TO BANK	35.00	175.00
7/1/71	RECEIVED FROM BANK	60.00	235.00
7/15/71	PAID TO BANK	40.00	195.00
8/1/71	RECEIVED FROM BANK	65.00	260.00
8/15/71	PAID TO BANK	45.00	215.00
9/1/71	RECEIVED FROM BANK	70.00	285.00
9/15/71	PAID TO BANK	50.00	235.00
10/1/71	RECEIVED FROM BANK	75.00	310.00
10/15/71	PAID TO BANK	55.00	255.00
11/1/71	RECEIVED FROM BANK	80.00	335.00
11/15/71	PAID TO BANK	60.00	275.00
12/1/71	RECEIVED FROM BANK	85.00	360.00
12/15/71	PAID TO BANK	65.00	295.00
1/1/72	RECEIVED FROM BANK	90.00	385.00
1/15/72	PAID TO BANK	70.00	315.00
2/1/72	RECEIVED FROM BANK	95.00	410.00
2/15/72	PAID TO BANK	75.00	335.00
3/1/72	RECEIVED FROM BANK	100.00	435.00
3/15/72	PAID TO BANK	80.00	355.00
4/1/72	RECEIVED FROM BANK	105.00	460.00
4/15/72	PAID TO BANK	85.00	375.00
5/1/72	RECEIVED FROM BANK	110.00	485.00
5/15/72	PAID TO BANK	90.00	395.00
6/1/72	RECEIVED FROM BANK	115.00	510.00
6/15/72	PAID TO BANK	95.00	415.00
7/1/72	RECEIVED FROM BANK	120.00	535.00
7/15/72	PAID TO BANK	100.00	435.00
8/1/72	RECEIVED FROM BANK	125.00	560.00
8/15/72	PAID TO BANK	105.00	455.00
9/1/72	RECEIVED FROM BANK	130.00	585.00
9/15/72	PAID TO BANK	110.00	475.00
10/1/72	RECEIVED FROM BANK	135.00	610.00
10/15/72	PAID TO BANK	115.00	495.00
11/1/72	RECEIVED FROM BANK	140.00	635.00
11/15/72	PAID TO BANK	120.00	515.00
12/1/72	RECEIVED FROM BANK	145.00	660.00
12/15/72	PAID TO BANK	125.00	535.00
1/1/73	RECEIVED FROM BANK	150.00	685.00
1/15/73	PAID TO BANK	130.00	555.00
2/1/73	RECEIVED FROM BANK	155.00	710.00
2/15/73	PAID TO BANK	135.00	575.00
3/1/73	RECEIVED FROM BANK	160.00	735.00
3/15/73	PAID TO BANK	140.00	595.00
4/1/73	RECEIVED FROM BANK	165.00	755.00
4/15/73	PAID TO BANK	145.00	615.00
5/1/73	RECEIVED FROM BANK	170.00	775.00
5/15/73	PAID TO BANK	150.00	625.00
6/1/73	RECEIVED FROM BANK	175.00	795.00
6/15/73	PAID TO BANK	155.00	645.00
7/1/73	RECEIVED FROM BANK	180.00	815.00
7/15/73	PAID TO BANK	160.00	665.00
8/1/73	RECEIVED FROM BANK	185.00	835.00
8/15/73	PAID TO BANK	165.00	685.00
9/1/73	RECEIVED FROM BANK	190.00	855.00
9/15/73	PAID TO BANK	170.00	705.00
10/1/73	RECEIVED FROM BANK	195.00	875.00
10/15/73	PAID TO BANK	175.00	725.00
11/1/73	RECEIVED FROM BANK	200.00	895.00
11/15/73	PAID TO BANK	180.00	745.00
12/1/73	RECEIVED FROM BANK	205.00	915.00
12/15/73	PAID TO BANK	185.00	765.00
1/1/74	RECEIVED FROM BANK	210.00	935.00
1/15/74	PAID TO BANK	190.00	785.00
2/1/74	RECEIVED FROM BANK	215.00	955.00
2/15/74			







ADDENDUM

TO

BID 2021-34

BID INVITATION

ASPHALT SEALING & STRIPING

VARIOUS COUNTY ROADS

THIS ADDENDUM SHALL BECOME PART OF BID PACKAGE 2021-34 —

CRAIGHEAD COUNTY ARKANSAS

04-08-2014  
03-09-2016 Rev.  
11-16-2017 Rev.  
10-25-2018 Rev.  
12-06-2018 Rev.  
01-09-2020 Rev.  
09-17-2020 Rev.

Page 1 of 4

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**FOG SEAL**

**Description:** This work shall consist of the uniform application of an asphalt emulsion to an existing paved surface by means of a bituminous distributor meeting the requirements of Section 403 of Standard Specifications for Highway Construction, 2014 Edition, and/or as directed by the Engineer.

**Materials:** The Fog Seal emulsified asphalt shall meet the properties in the table below. Type 1 is a commodity slow setting, low residue emulsion. Type 2 an emulsion designed for quick traffic return. Type 3 is a polymer modified emulsion for general use. Type 4 is a polymer modified emulsion designed for the rejuvenation of oxidized Hot Mix Asphalt.

TEST ON EMULSION	TEST METHOD	Type 1 (MIN) (MAX)		Type 2 (MIN) (MAX)		Type 3 (MIN) (MAX)		Type 4 (MIN) (MAX)	
Viscosity, Saybolt-Furuf, @ 77°F, SFS	AASHTO T 59	-	100	-	100	-	100	10	100
Particle Charge	AASHTO T 59	(*) or (-)		(*) or (-)		(*) or (-)		(*) or (-)	
Sieve Test, %	AASHTO T 59	-	-	-	0.3	-	0.3	-	0.3
Storage, 24 hour, %	AASHTO T 59	-	-	-	-	-	-	-	1
Oil Distillate, %	AASHTO T 59	-	-	-	-	-	-	-	0.5
Residue properties from Distillation <sup>1</sup>									
Residue, %	AASHTO T 59	30	-	30	-	30	-	30	-
MSCR @ 64°C, J <sub>sr</sub> @ 3.2/kPa	AASHTO T 350	-	-	2.0	-	-	-	-	-
Penetration, 77°F, 100g, 5 sec	AASHTO T 49	90	250	-	-	40	90	-	-
Elastic Recovery, 25°C, %		-	-	-	-	40	-	-	-
Penetration, 4°C, 200g, 60 sec		-	-	-	-	-	-	30	-
Residue properties from Low Temp Evaporation	AASHTO R 78 Procedure B								
MSCR @ 52°C, J <sub>sr</sub> @ 3.2/kPa	AASHTO TP 79	-	-	-	-	-	-	-	2.0
Polymer Properties									
Tests on Modifier Mass Change, %	ASTM D471 (modified)	-	-	-	-	-	-	-	50%
Test on Rejuvenating Agent									
Flash Point, COC, °F	AASHTO T 48	-	-	-	-	-	-	380	-
Viscosity, 140 °F, CST	AASHTO T 201	-	-	-	-	-	-	50	175
Saturate, % by wt	ASTM D2007	-	-	-	-	-	-	-	30
Asphaltenes	ASTM D2007	-	-	-	-	-	-	-	1.0
Test on Rejuvenating Residue									
Weight change, %w	ASTM D2872	-	-	-	-	-	-	-	5.5
Viscosity Ratio (RTFO/Orig.)	ASTM D2170	-	-	-	-	-	-	-	3

See next page for footnotes.

ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION  
JOB NO.  
FOG SEAL

Footnotes

1. Exception to MASHOT T 59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain this temperature for 20 minutes. Complete the total distillation in 60 plus or minus 5 minutes.
2. For modifications for Polymer Properties testing, refer to Appendix A Test Modifications.
3. Modify ASTM D471 as follows:
  - a. Place 0.8g of modifier into an 18-mm silicone rubber DSR mold
  - b. If necessary, dry at ambient lab conditions for 72 hr.
  - c. Remove the modifier from the mold and place the sample into a forced draft oven on release paper for 48 hr at 40°C.
  - d. After 48 hr, cool and weigh the sample to the nearest 0.0001 g. Record the weight.
  - e. Pour 30 g of rejuvenating agent in a 50-ml metal container.
  - f. Place modifier sample in the container and add another 30 g of rejuvenating agent. Ensure the modifier sample is completely covered; add more rejuvenating agent if necessary.
  - g. Cover the container with a metal lid and place it into a 40°C oven for 48 hr.
  - h. Remove the sample from the container. Use a paper towel to blot the surface of the sample to remove excess rejuvenator. Allow sample to cool to room temperature and weigh to the nearest 0.0001 g.
  - i. Calculate the mass change, expressed in Equation 1. Mass change will be positive.

$$\text{Mass Change (\%)} = \frac{M_2 - M_1}{M_1} \times 100$$

Where:

M<sub>1</sub> = Mass of modifier sample before being conditioned in the rejuvenating agent (g); and  
M<sub>2</sub> = Mass of modifier sample after conditioning in the rejuvenating agent (g).

**Equipment**

**Asphalt Distributor:** The mechanical pressure distributor shall meet the requirements of Subsection 403.06. The spray nozzles shall be rated and of the size recommended for a uniform application rate.

**Rotary Broom:** The Rotary Broom shall be capable of removing dust, debris, and loose mineral aggregate from the surface as needed and based on the specifications herein.

**Equipment Calibration:** The asphalt distributor shall be calibrated by applying asphalt emulsion for a continuous section of minimum 500 ft. The amount of material distributed shall be within 5% of the intended application rate and shall be verified by use of a strapping stick as supplied by the equipment manufacturer. Neither a visual gauge indicating volume nor the computer readout shall be used as a calibration method. The application rate is measured in gal/square yard.

**Test Strip:** Prior to the beginning of the project, the contractor may be required to perform a test strip in a suitable area such as a parking lot or staging area to assure the materials, contractor personnel, and equipment are suitable to produce a satisfactory Fog Seal. The location for the test strip shall be approved by the Engineer. The test strip may be conducted as part of the calibration procedure or may be conducted as part of the project.

**ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION  
JOB NO.  
FOG SEAL**

**Surface Preparation**

**General:** Immediately prior to applying the Fog Seal, the pavement surface shall be cleared of all loose material, silt spots, vegetation, and other objectionable material. If water is used, cracks shall be allowed to dry thoroughly before applying the asphalt emulsion. Manholes, valve boxes, drop inlets, and other service entrances shall be protected from the rejuvenating Fog Seal by a suitable method. Thermoplastic and other striping should be removed or protected prior to application of the asphalt emulsion. The Engineer shall approve the surface preparation prior to application of the Fog Seal.

**Material Storage and Handling**

**Asphalt Emulsion:** It is expected that the contractor follows the manufacturer guidelines for storage and handling of the specified Fog Seal emulsion.

**Aggregate:** Aggregate intended for use on the project shall be maintained in such manner as to protect it from contamination by debris and excess moisture. Large or oversized particles shall be removed from the aggregate by screening or other acceptable method prior to use on the project.

**Seasonal Limitations:** The Fog Seal shall be placed between April 1 - September 30 for travel lanes and April 1 - October 30 for shoulders.

**Construction Requirements:** The pavement surface shall be swept and cleaned in accordance with Subsection 402.03(b). Fog Seal shall not be applied when the air or pavement temperature is below 50°F, nor shall it be applied to a surface exhibiting moisture, nor when general weather conditions, in the opinion of the Engineer, are not suitable. Road surface must be dry. Do not apply during foggy weather or when rain is likely to occur the same or following day. In order to allow enough time for the Fog Seal to completely cure, Fog Seal shall not be applied after 3:00 pm in order to allow for complete curing before opening the lane to traffic, unless otherwise approved by the Engineer prior to application (based on weather and traffic conditions). The distributor shall be so adjusted and operated as to distribute evenly the material being applied at a rate between 0.05-0.15 gallons/square yard as indicated on the plans. The application rate shall vary according to the demands of the pavement and shall be determined by the Engineer.

**Traffic Control:** Traffic control shall be maintained until the product has sufficiently cured to withstand traffic without damage. The Fog Seal shall be completely broken before traffic is permitted to drive on it.

04-08-2014  
03-09-2016 Rev.  
11-16-2017 Rev.  
10-25-2018 Rev.  
12-06-2018 Rev.  
01-09-2020 Rev.  
09-17-2020 Rev.

Page 4 of 4

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**FOG SEAL**

**Aggregate:** Aggregate is used only as a blotting agent in areas of excess emulsion application or as a means to protect a freshly placed seal in high traffic areas or to facilitate early return to traffic. The aggregate shall be any suitable manufactured or natural sand with top-sized material of less than 0.25 inch. Furnish and uniformly distribute clean, fine sand on the surface to blot excess when an excessive quantity of asphalt is applied. If sand is required, the application rate should be 1.0-2.0 lbs/square yard. Deposits of asphalt material upon the road surface in excess of the quantity specified, caused by stopping or starting the distributor, overflow, leakage, or otherwise, shall be removed at no cost to the Department.

**Method of Measurement:** Fog Seal shall be measured by the gallon.

**Basis of Payment:** Work completed and measured as provided above will be paid for at the contract unit price bid per gallon for Fog Seal. The bid price shall be full compensation for surface preparation, furnishing, preparing, hauling, application of the Fog Seal, and removing of Aggregate used for blotting; and for all equipment, tools, labor, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item	Pay Unit
Fog Seal (Type ____)	Gallon

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**REJUVENATING MASS CRACK TREATMENT**

**Description:**

This item shall consist of the application of a polymer modified asphalt rejuvenating mass crack treatment, as specified, according to these specifications, and in reasonably close conformity with the plans or as directed.

The treatment consists of furnishing properly distributed rejuvenating asphalt emulsion scrubbed into the cracks and voids followed by a uniform application of aggregate for building a riding surface, improving the surface friction of a roadway, sealing cracks in the roadway, reducing the rate of oxidation of a surface mixture, or as an interlayer to delay or reduce the occurrence of reflective cracking.

**Materials:**

- (a) **Asphalt Emulsion.** The asphalt emulsion for rejuvenating mass crack treatment shall meet the requirements of the following table and shall be composed of a polymer modifier, a petroleum based rejuvenating agent, and asphalt. The emulsion supplier shall receive quarterly certificates of analysis (COA) for both the polymer and rejuvenating agency manufacturers. The COAs shall be provided to the Department upon request.

Property	Test Procedure (AASHTO)	Specification (min) (max)	
<b>Emulsion Properties</b>			
Viscosity, Saybolt-Furol, @ 77°F, SFS	T59	50	350
Storage, 24 hour, %	T59	-	1
Oil Distillate, %	T59	-	0.5
Sieve Test, %	T59	-	0.1
Residue by Distillation <sup>(1)</sup> @ 350°F, %	T59	60	-
<b>Residue Properties From Distillation</b>			
Penetration @ 4°C , 200g weight, 60 sec	T49	30	-
<b>Residue Properties From Low Temp Evaporation</b>		R78, Procedure B	
MSCR @ 52°C, J <sub>nr</sub> @ 3.2/kPa	ASTM D7405	-	4.0
<b>Polymer Properties<sup>(2)</sup></b>			
Tests on Modifier Mass Change, %	ASTM D471 (modified)		50%
<b>Test on Rejuvenating Agent</b>			
Flash Point, COC, °F	ASTM D92	380	-
Viscosity, 140°F, cSt	ASTM D2170	50	175
Saturate, % by wt	ASTM D2007	-	30
Asphaltenes	ASTM D2007	-	1.0
<b>Test on Residue from RTFO</b>			
Weight change, %	ASTM D2872	-	6.5
Viscosity Ratio	ASTM D2170	-	3



ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION  
JOB NO.  
REJUVENATING MASS CRACK TREATMENT

1. Exception to AASHTO T59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain this temperature for 20 minutes. Complete the total distillation in 60 plus or minus 5 minutes.
  2. Modify ASTM D471 as follows:
    - a. Place 0.8g of modifier into an 18-mm silicone rubber OSR mold.
    - b. If necessary, dry at ambient lab conditions for 72 hr.
    - c. Remove the modifier from the mold and place the sample into a forced draft oven on release paper for 48 hr at 40°C.
    - d. After 48 hr, cool and weigh the sample to the nearest 0.0001 g. Record the weight.
    - e. Pour 30 g of rejuvenating agent in a 90-ml metal container.
    - f. Place modifier sample in the container and add another 30 g of rejuvenating agent. Ensure the modifier sample is completely covered; add more rejuvenating agent if necessary.
    - g. Cover the container with a metal lid and place it into a 40°C oven for 48 hr.
    - h. Remove the sample from the container. Use a paper towel to blot the surface of the sample to remove excess rejuvenator. Allow sample to cool to room temperature and weigh to the nearest 0.0001 g.
    - i. Calculate the mass change, expressed in Equation 1. Mass change will be positive.
      - i.  $Mass\ Change\ (\%) = \frac{M_2 - M_1}{M_1} \times 100$
      - ii. Where:
      - iii.  $M_1$  = Mass of modifier sample before being conditioned in the rejuvenating agent (g); and
      - iv.  $M_2$  = Mass of modifier sample after conditioning in the rejuvenating agent (g).
- (b) **Rejuvenating Agent.** The manufacturer of the rejuvenating agent, through the emulsion supplier and the contractor, shall submit to the Department test results certifying that the material meets the specification shown in the table above. The Department shall not accept test results dated more than 120 calendar days from the date of the project start. At any time during the project, the Department may obtain, and have tested at Department expense, samples of the rejuvenating agent being used in manufacturing of emulsion delivered to the project.
- (c) **Latex Polymer.** The manufacturer of the latex polymer, through the emulsion supplier and the contractor, shall submit to the Department test results certifying that the material meets the specification shown in the table above. The Department shall not accept test results dated more than 120 calendar days from the date of the project start. At any time during the project, the Department may obtain, and have tested at Department expense, samples of the latex polymer being used in manufacturing of emulsion delivered to the project.
- (d) **Aggregate.** Unless otherwise noted, the aggregate material shall be crushed stone listed in and meeting the requirements of Subsection 403.01 and having a gradation of Class 4 Mineral Aggregate as indicated in Subsection 403.02. When a Rejuvenating Mass Crack Treatment is to be used as an interlayer a Class 1 Mineral Aggregate as indicated in Subsection 403.02 may be used. It shall be stated in the plans if the Class 1 Mineral aggregate is required.

**Equipment:**

- (a) **Pressure Distributor.** An approved mechanical pressure distributor shall meet the requirements of Section 403.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT

(b) **Broom Sled.** A broom sled as described herein shall be used to force the emulsion into cracks and voids after application of the emulsion from a pressurized distributor and before the application of aggregate.

The broom sled frame shall be constructed of metal and equipped with means to be attached to and pulled by the distributor truck.

The broom sled must be equipped with a means of raising and lowering the broom sled when desired. It shall be towable in the elevated position. The height of the broom sled assembly shall be adjustable related to the amount of emulsion carried by the broom heads themselves such that, regardless of application rate, the broom sled carries an excess of emulsion in front of the broom heads across the width of the area to be treated while containing the emulsion inside of the broom sled frame and not outside of the intended width of the treatment.

The main body of the broom sled shall have an overall frame size similar to the one shown in the drawing below. The nearest and furthest members, paralleling the back of the distributor truck, and diagonal members shall be equipped with street brooms. The leading member and the trailing member shall have broom heads angled at approximately 10 to 15 degrees off the centerline of the supporting member. The diagonal members shall have broom heads attached in line with the centerline of the supporting member. Each individual street broom attached to the broom sled assembly shall have a density of bristles to sufficiently push the emulsion evenly within the desired area of application. The stiffness of the bristles shall not bend excessively during application and spreading of the emulsion.

The broom sled shall be equipped with hinged wing assemblies attached to the main body not to exceed 4.5 feet per side, with diagonals and equipped with the identical street brooms as described herein.

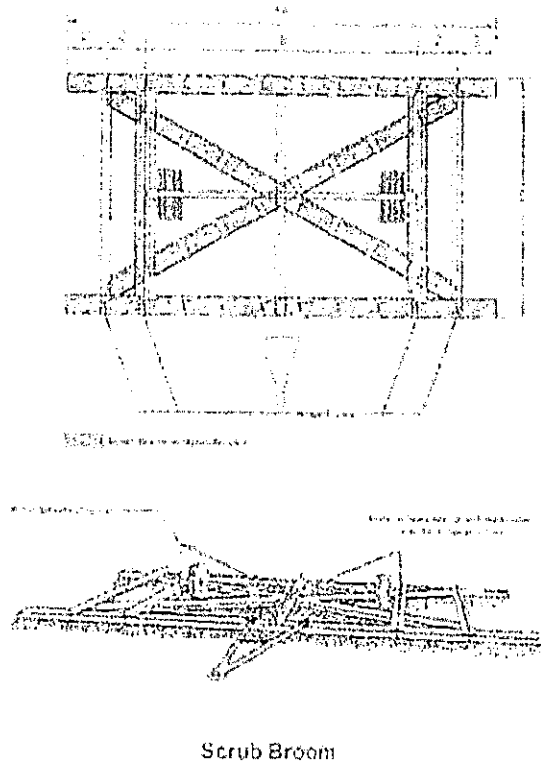
The purpose of the maximum rigid frame width and the hinged wing extensions is not only for maximum width of 16 feet but to maintain the scrubbing process evenly as contours and cross-sections change across the existing road surface. A means or method of controlling the broom sled, causing it to track evenly behind the distributor in curves and on cross slopes, is required.

All broom sled designs shall be submitted to the Department for approval. Demonstration that the broom sled design is capable of filling the cracks with emulsion shall be performed prior to the Engineer approving the broom sled design. Demonstration of the broom sled may be performed on the test strip. An example broom sled design diagram is included in this document.

ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT



(c) **Aggregate Spreader.** The mechanical aggregate spreader shall meet the requirements of Subsection 403.07.

(d) **Rollers.** Rollers shall meet the requirements of Subsection 403.08.

(e) **Rotary Broom.** The Rotary Broom shall be capable of removing debris and loose mineral aggregate from the surface as needed and based on the specifications herein.

**Test Strip:**

Prior to the beginning of the project, the contractor shall be required to perform a test strip with a minimum length of 100 feet to assure the materials, contractor personnel and equipment are suitable to produce a satisfactory Rejuvenating Mass Crack Treatment. The test strip may be conducted as part of the calibration procedure. The test strip may be in a suitable area such as a parking lot or staging area. The contractor may also elect to use the project site for the test strip. If the test strip is placed within the project limits the contractor shall correct any deficiencies before opening to traffic as directed by the Engineer at no additional cost to the Department. The location for the test strip shall be approved by the Engineer prior to placement of the test strip.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT

**Construction Requirements:**

(a) **General.** The methods employed in performing the work, and all equipment, tools, and machinery used in handling material and executing any part of the work shall be subject to the approval of the Engineer before the work is started and whenever found unsatisfactory shall be changed or improved as required. Equipment, tools, and machinery used must be maintained in a satisfactory condition, and must conform to the requirements provided in Section 403.

The surfaces of all structures shall be protected by some satisfactory method to prevent their being disfigured by the application of asphalt material. Objectionable asphalt discoloration, caused by the Contractor's operations, shall be removed from all roadway and bridge structures at no cost to the Department.

Asphalt material shall not be applied on a surface having excess moisture or when weather conditions are unsuitable. The Contractor shall monitor local weather conditions to avoid placing material on the road ahead of adverse weather that could subsequently damage the material. In the event materials are damaged by adverse weather, they shall be replaced or repaired at no additional cost to the Department.

Special precautions shall be taken to ensure that the equipment is operated in a manner that distributes the asphalt and aggregate evenly and uniformly. Deposits of asphalt and aggregate material upon the road surface in excess of the quantity specified, caused by stopping or starting the distributing machine, overflow, leakage, or other mechanical or human errors, shall be removed.

Prior to performing the actual work, all equipment shall be adjusted and calibrated according to Section 403 and applicable manufacturer's requirements.

The surface section shall be constructed in half widths for each application.

(b) **Preparation of Existing Surface.** Potholes and surface depressions will be repaired by the Department prior to the Rejuvenating Mass Crack Treatment work unless shown otherwise on the plans. Immediately prior to application of the asphalt material, clean and de-grass existing pavements over the full width to be treated and all raised pavement markers shall be removed.

Manholes, valve boxes, drop inlets and other service entrances shall be protected from the asphalt emulsion by a suitable method.

(c) **Sweeping and Cleaning.** Before the asphalt material is applied, the surface shall be thoroughly cleaned and swept with a rotary power broom to remove all dust, dirt, mud, and loose or foreign material. A blower may be used to assist in the cleaning operation. The sweeping and cleaning operations shall be carried out only far enough in advance of the application of the asphalt material to ensure that the surface is maintained in the proper condition at the time of application. Clean areas not reached by the power broom or blower by hand brooming or blowing.

(d) **Application of Asphalt Material.** After the surface to be treated has been prepared as specified above, the asphalt material for the surface treatment shall be sprayed uniformly over the surface by means of an approved mechanical pressure distributor,

ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION

JOB NO.

**REJUVENATING MASS CRACK TREATMENT**

meeting the requirements of Section 403, shown on the plans and at the designated rate of application as shown on the plans.

The optimum application rate of asphalt material is dependent on the mineral aggregate gradation as well as the condition of the pavement in which the Rejuvenating Mass Crack Treatment is to be applied. The application rate of the asphalt material may be adjusted by the Engineer based on field conditions at the time of construction.

The asphalt material shall be applied at the temperature between 140 - 180°F. The Contractor shall ensure uniformity of distribution at junctions of distributor loads by use of building paper or other approved methods.

After asphalt material is applied and broomed to force material into cracks and voids, no equipment or traffic will be permitted on the surface until the aggregate is applied and rolled.

**(e) Application of Mineral Aggregate.** The mineral aggregate shall not contain excessive free moisture and shall be spread immediately following the application of the asphalt material. Operations shall not proceed or continue when the asphalt material is allowed to chill, set up, dry, or otherwise impair retention of the mineral aggregate. The mineral aggregate shall be spread with a mechanical spreader meeting the requirements of Section 403. The mineral aggregate shall be distributed over the asphalt material and at the rate of application shown in the plans. The use of an approved chip box to distribute the mineral aggregate will be permitted on detour construction and other areas approved by the Engineer where the use of a mechanical spreader is impractical. Spreading shall be accomplished in such manner that the tires of the trucks or aggregate spreader at no time contact the uncovered and freshly applied asphalt material. Portions of the surface not covered by mechanical spreaders shall be hand spotted so that the entire surface will be uniformly covered. Light hand brooming may be necessary to distribute excess aggregate.

**(f) Rolling and Brooming.** A minimum of two pneumatic rollers, along with one rotary power broom shall be used with each aggregate spreader being used. A steel wheel roller will be allowed as a finish roller with approval by the Engineer.

Rolling shall begin immediately behind the spreader. Each surface treatment shall be completely rolled a minimum of three times.

After the final set of asphalt has occurred and no more than 48 hours after application, the surface shall be lightly broomed to remove excess aggregate. Generally, the brooming shall be confined to the cooler hours of the day and shall be conducted so as not to displace embedded material.

**(g) Second and Successive Applications.** If the work involves two or more applications of asphalt material and mineral aggregate, the rates of application for this material will be those specified on the plans or as designated by the Engineer. The method of construction will be the same as for an asphalt surface treatment meeting the requirements of Section 402. If a second seal is to be constructed, the emulsion shall conform to Subsection 403.03(d) or Subsection 403.03(e). Each application shall be placed only after the preceding application has been satisfactorily completed and cured. Further, the asphalt

ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT

material shall be firmly set and the aggregate firmly embedded so as not to be displaced by brooming. Before application, the surface shall be thoroughly swept with a rotary power broom so that no dust or loose aggregate is left that might cause a plane of cleavage.

**Traffic Control:**

During the application of the asphalt material and aggregate, and during the rolling operation, traffic will not be allowed on the new surface. When traffic must use the lane adjacent to the lane under construction, the Contractor shall regulate the flow of vehicles past the surfacing operation at a speed not to exceed 25 miles per hour (40 km/h). The Engineer may require the use of a pilot vehicle.

Until the asphalt has set and the cover aggregate is firmly embedded, traffic shall not exceed 25 miles per hour (40 km/h). The vehicle speeds shall be controlled by the use of one or a combination of barricades, flaggers, signs, or pilot vehicles that will minimize the loss of cover aggregate. The method used for speed control shall be approved by the Engineer and will be subject to change or modification should the selected method of control prove unsatisfactory.

The Contractor shall route the aggregate haul trucks to and from the work area so that they will not have to turn on the freshly placed surface treatment.

**Temperature and Seasonal Limitations:**

Asphalt material shall not be applied when the ambient and surface temperature including shaded areas is below 60°F (15°C). In addition, asphalt surface treatments shall not be applied outside the following seasonal limitations:

Traveled Lanes	April 15 to September 30
Shoulders	April 1 to October 31

No deviation from the above limitations will be allowed except by written permission from the Engineer.

**Method of Measurement:**

(a) Mineral aggregate in surface treatments will be measured either by the cubic yard (cubic meter) or by the ton (metric ton).

(b) Rejuvenating Mass Crack will be measured by the gallon (liter).

**Basis of Payment:**

Work completed and accepted and measured as provided above will be paid for as follows:

(a) Mineral aggregate will be paid for at the contract unit price bid per ton (metric ton) or per cubic yard (cubic meter) for Mineral Aggregate in Asphalt Surface Treatment.

In cases where the combined specific gravity of the material used for Mineral Aggregate in Rejuvenating Mass Crack Treatment exceeds 2.80 and the method of measurement is by the ton (metric ton), the quantity of material will be adjusted for payment by multiplying the quantity of the material used by the specific gravity of 2.80 and dividing by the higher specific gravity.

ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT

(b) Asphalt material will be paid for at the contract unit price bid per gallon (liter) for Rejuvenating Emulsified Asphalt (CMS-1PC).

The above contract unit price shall be full compensation for surface preparation including the removal of the raised pavement; furnishing, loading, heating, hauling, placing, and applying materials; for cleaning, sweeping, brooming, rolling; and for all labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item	Pay Unit
Mineral Aggregate in Asphalt Surface Treatment (Class ____)	Cubic Yard (Cubic Meter) or Ton (Metric Ton)
Rejuvenating Emulsified Asphalt (CMS-1PC)	Gallon (Liter)

**CRAIGHEAD COUNTY  
INVITATION TO BID-Not an Order**

Craighead County Judge's Office  
511 Union St. Suite 119  
Jonesboro, Arkansas 72401

**PURCHASING OFFICE**

**BID NO. 2021-34**

**DATE August 3, 2021**

Sealed bids, subject to the conditions on the attached hereof, and as may be attached hereto, will be received at this office until **2:00 PM August 17, 2021** and then publicly opened, for furnishing the supplies, materials, and/or services as described below.

Bids will be opened **August 17, 2021.**  
**2:00 P.M. Local Time**

**FOB Craighead County, Arkansas**

**BY: Al Haines**  
**Purchasing Director**

Item #	DESCRIPTION
1	The intent of the attached specifications is to describe asphalt sealing, striping, traffic control, and type of materials to use for preserving various County Roads in Craighead County.
2	The successful bidder will furnish Craighead County a signed copy of all delivery receipts for each road or job, and will invoice the County for each job individually.
3	Does bidder meet all specifications? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, please attach sheets explaining differences.
4	Successful bidder shall maintain bid price throughout the asphalt seal season.
5	Bidder should specify approximate start date if awarded bid. Days <b>10/15/21 (16 working Days)</b>
6	Bidder shall quote price per gallon of asphalt sealer and mineral aggregate laid on roads and each job should be bid separately and should include traffic control and mobilization.
7	Bid must be signed by an authorized representative or bid will be rejected.
8	Bidder should return all pages of this bid package.
9	Bid # 2021-34 must be noted on the outside of bidders envelope.
10	Total cost per job should be shown on <b>Bid Sheet Form</b>

**EXECUTION OF BID**

Date **8/13/21**

We, the undersigned, have read all the requirements set forth in this bid proposal including specifications, conditions, and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices instructions, stated.

Arkansas use Tax Register No. **00200786 SLs**

Bidder **Vance Brothers, Inc**

Address **5201 Brighton Ave**

By **[Signature]** City **Kansas City, MO 64130**

(Person Authorized to Sign Bids)

Title **Robert Vance, Sr. Vice President**

**UNSIGNED BIDS WILL BE REJECTED**

**BIDS ARE SUBJECT TO REJECTION UNLESS SUBMITTED ON THIS FORM**

**NOTICE TO BIDDERS, SEE REVERSE SIDE OR ATTACHMENTS FOR INSTRUCTIONS AND CONDITIONS.**

VANCE BROTHERS INC  
CORPORATE SEAL  
MISSOURI

VANCE BROTHERS INC (816) 923-4325



**CRAIGHEAD COUNTY  
JONESBORO, ARKANSAS**

**CONDITIONS OF BIDDING**

Compliance with the following conditions is necessary for consideration of this bid.

- 1 Signature-This bid must be signed with the firm name and by an authorized officer, employee or agent.
- 2 Sales Tax-Is to be shown in the bid price, but is to be listed as separate line item.  
The County is not exempt from Arkansas State Sales Tax. Contractors are to include all costs into the bid price, including applicable taxes.
- 3 Freight and other delivery charges-to destination at designated County job site in the County must be included in bid. Charges may not be added after the bid is opened.
- 4 Discounts-Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise County will deduct allowed discount when payment is made.
- 5 Firm Price-All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the County or bidder
- 6 Identical Bids-In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders, or split in any proportion between the said two or more bidders at discretion of the County.
- 7 Clean up-Complete cleanup and proper disposal of any and all job related items is considered to be a part of any contract let by Craighead County.
- 8 Ambiguity in bid-Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the County
- 9 Construction  
A. When requested, the Contractor is to supply the County with evidence of having and maintaining proper and specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability, and Property Damage. All premiums and cost shall be paid by Contractor. In no way will the County be responsible in case of accident.  
B. A Performance Bond equaling the total amount of any bid exceeding \$20,000 must be provided for erection of any public building, public structure, or public improvement(Pursuant to Arkansas Code 18-44-503.)
- 10 The County reserves the right to reject any and all bids, accept in whole or in part, to waive informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the County may accept the bid for the lesser amount whether reflected by extension or by the correct multiple of the unit price.

**INSTRUCTIONS TO BIDDERS**

(Please read carefully)

- 1 Submit bid on bid form attached.
- 2 Address all bids to: Purchasing Director, Craighead County Judge's Office, 511 Union St., Suite 119, Jonesboro, Arkansas 72401 and make certain to indicate identifying bid number on the outside of bid envelope.
- 3 DO NOT include Federal Excise Tax in bid. County will furnish exemption certificate.
- 4 Bids received after stated time will not be considered.
- 5 Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.
- 6 Guarantees and warranties should be attached as a part of the bid, as they may be a consideration in awarding contract.
- 7 Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
- 8 Additional information may be obtained from the Purchasing Department.
- 9 **Point of contact will be Marvin Day at 243-6453**

**COUNTY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS  
AND TO ACCEPT BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.**

		SPECIFICATIONS									
1		Scope: As part of the ongoing asphalt preservation on various county roads, We are requesting bids for sealing various county roads according to the attached specifications.									
2		The work will be done in accordance with the current ARDOT specifications for sealing asphalt roads.									
3		Each job listed below must be bid separately.									
4		See attached specifications indicating road numbers, locations, and job numbers for sealing, striping traffic control, and fog sealing various roads in Craighead County.									
5		Craighead County stipulates that the successful bidder will do other sealing jobs at the bid price should other monies become available to Craighead County.									
6		Craighead County reserves the right to accept, reject, in whole or in part, to waive informalities in bids received, or accept bids with variations.									
7		Traffic control shall be responsibility of contractor. Any damages to property, vehicles, persons, or any other incidents or accidents shall be the liability of the contractor.									
8		Mobilization costs should be listed as a separate item.									
9		All applications of product of sealing, striping, traffic control, and related jobs in this bid package shall be according to attached specifications.									
10		Signage shall be placed at all road intersections according to the Traffic Control Devices specifications as noted with the State Highway department road numbers for each job section.									
		There are no seasonal limitations for this project. The county will work with contractor to determine if the job need to be continued into next spring.									

# Bid Sheet Form

Job number of County Roads to be sealed and striped

	County Road		Est miles	Item	Quantity	Unit Price	Extension
Job 1	CR 318 Section 1	Asphalt Preservation	4.92	Mineral Aggregate	824.8 tons	\$ 22.25	\$ 18,351.80
				CMS-PC	19795.3 gallons	\$ 5.00	\$ 98,976.50
				Fog Seal	6598.4 gallons	\$ 2.00	\$ 13,196.80
				Pavement markings yellow(4")	51956 feet	\$ 0.20	\$ 10,391.20
				Pavement markings white(4")	51956 feet	\$ 0.20	\$ 10,391.20
				Pavement markings white(8")	0 feet	\$ 0.20	\$ 0
Job 2	CR 780 Section 2	Asphalt Preservation	5.74	Mineral Aggregate	886.5 tons	\$ 22.25	\$ 19,724.63
				CMS-PC	21276.6 gallons	\$ 5.00	\$ 106,383.00
				Fog Seal	7092.2	\$ 2.00	\$ 14,184.40
				Pavement markings yellow(4")	54023.0 feet	\$ 0.20	\$ 10,804.60
				Pavement markings white(4")	60614.0 feet	\$ 0.20	\$ 12,122.80
				Pavement markings white(8")	40 feet	\$ 0.20	\$ 8.00
Job 3	CR 760 Section 3	Asphalt Preservation	0.98	Mineral Aggregate	150.9 tons	\$ 22.25	\$ 3,357.53
				CMS-PC	3621.8 gallons	\$ 5.00	\$ 18,109.00
				Fog Seal	1207.3 gallons	\$ 2.00	\$ 2,414.60
				Pavement markings yellow(4")	10348.0 feet	\$ 0.20	\$ 2,069.60
				Pavement markings white(4")	10348.0 feet	\$ 0.20	\$ 2,069.60
				Pavement markings white(8")	0 feet	\$ 0.20	\$ 0
Job 4	CR 505,507,510 Section 4	Asphalt Preservation	4.42	Mineral Aggregate	572.0 tons	\$ 22.25	\$ 12,727.00
				CMS-PC	13728.0 gallons	\$ 5.00	\$ 68,640.00
				Fog Seal	4576.0 gallons	\$ 2.00	\$ 9,152.00
				Pavement markings yellow(4")	12252.0 feet	\$ 0.20	\$ 2,450.40
				Pavement markings white(4")	41184.0 feet	\$ 0.20	\$ 8,236.80
				Pavement markings white(8")	0 feet	\$ 0.20	\$ 0
Job 5	CR 476 Section 5	Asphalt Preservation	1.76	Mineral Aggregate	280.9 tons	\$ 22.25	\$ 6,250.03
				CMS-PC	6741.5 gallons	\$ 5.00	\$ 33,707.50
				Fog Seal	2247.2 gallons	\$ 2.00	\$ 4,494.40
				Pavement markings yellow(4")	18386.0 feet	\$ 0.20	\$ 3,677.20
				Pavement markings white(4")	0 feet	\$ 0.20	\$ 0
				Pavement markings white(8")	0 feet	\$ 0.20	\$ 0
				Traffic Control/Temporary Signage			\$ 73,000.00
				Mobilization Cost(not to exceed 5%)			\$ 28,000.00
				Bid according to Attached Specifications:	Total Bid		\$ 592,890.58
				Surfacing Quantities			
				Reflectorized Paint Pavement Marking			
				Traffic Control Devices			

# Al Haines

---

**From:** Arthur Sewell <asewell@vancebrothers.com>  
**Sent:** Thursday, August 19, 2021 2:30 PM  
**To:** Al Haines  
**Subject:** RE: Bid 2021-34 Asphalt preservation Start and completion date.

**Please be cautious**  
This email was sent outside of your organization

---

Al,

Our start date in the bid will reflect when we expect to be able to get to this job. Our goal is to get to you by the middle of October and it should take around two weeks to complete. This will all be if weather permits.

Thank you!

**Arthur Sewell | Construction/Contracting**  
asewell@vancebrothers.com  
**Main: 816-923-4325 Ext. 271**  
**Direct: 816-922-8021**  
**Mobile: 816-500-5192**  
**Vance Bros. Inc.**  
**5201 Brighton P.O., Box 300107 Kansas City Mo. 64130-0107**



**From:** Al Haines <ahaines@craigheadcounty.org>  
**Sent:** Thursday, August 19, 2021 10:31 AM  
**To:** Arthur Sewell <asewell@vancebrothers.com>; saltcreekpaving@gmail.co; Burt Sugg Construction <burt@suggconstruction.com>  
**Subject:** Bid 2021-34 Asphalt preservation Start and completion date.

Craighead County is in process of reviewing each bid received for Bid 2021-34 for asphalt preservation sealing and striping various county roads in Craighead County. One of the criteria items we are looking at before the bid is awarded is the Start date and completion date. I realize some bidders stated a start date, However, we would like to have a more specific date to that you would be able to start the project and good estimate when the project would be completed, weather permitting.

Thank you for your interest in this project.

Please respond as soon as possible.

Thank you

Al Haines

Purchasing Agent

# Document A310™ - 2010

Conforms with The American Institute of Architects AIA Document 310

## Bid Bond

### CONTRACTOR:

(Name, legal status and address)

Vance Brothers, Inc.

5201 Brighton Avenue P O Box 300107

Kansas City, MO 64130-0107

### SURETY:

(Name, legal status and principal place of business)

Liberty Mutual Insurance Company

2200 Renaissance Boulevard, Ste. 400

King of Prussia, PA 19406-2755

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

### OWNER:

(Name, legal status and address)

Craighead County

511 Union Street, Suite 119

Jonesboro, AR 72401

BOND AMOUNT: \$ 5%

Five Percent of Amount Bid

### PROJECT:

(Name, location or address, and Project number, if any)

Job 2021-34 Craighead County Sealing various county roads

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 17th day of August, 2021

  
(Witness)

Vance Brothers, Inc.

(Principal)

(Seal)

By:

(Title)

Robert A. Vance  
Sr. Vice President

Liberty Mutual Insurance Company

(Surety)

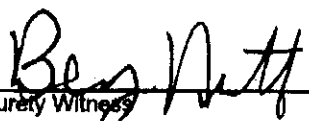
(Seal)

By:

(Title) Linda L. Nutt,

Attorney-in-Fact & AR Licensed Agent

Surety Phone No. 610-832-8240

  
(Witness) Surety Witness

VANCE BROTHERS INC  
CORPORATE SEAL

S-0054/AS 8/10

MISSOURI

VANCE BROTHERS INC (816) 923-4325



Seal No. 5793

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees. For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.



**Liberty  
Mutual.**

**SURETY**

Liberty Mutual Insurance Company  
The Ohio Casualty Insurance Company  
West American Insurance Company

## POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint Linda L. Nutt of the city of Kansas City, state of MO its true and lawful attorney-in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the following surety bond:

Principal Name: Vance Brothers, Inc.

Obligee Name: Greathood County, AR

Surety Bond Number: Bid Bond

Bond Amount: See Bond Form

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 12<sup>th</sup> day of March, 2021.



The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
West American Insurance Company

By: David M. Carey

David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA  
COUNTY OF MONTGOMERY

ss

On this 12<sup>th</sup> day of March, 2021, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal  
Teresa Pastella, Notary Public  
Montgomery County  
My commission expires March 28, 2025  
Commission number 1126044

Member, Pennsylvania Association of Notaries

By: Teresa Pastella

Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By Laws and Authorizations of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

**ARTICLE IV - OFFICERS - Section 12. Power of Attorney.** Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bonds and Undertakings.** Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

**Certificate of Designation -** The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization -** By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, whenever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

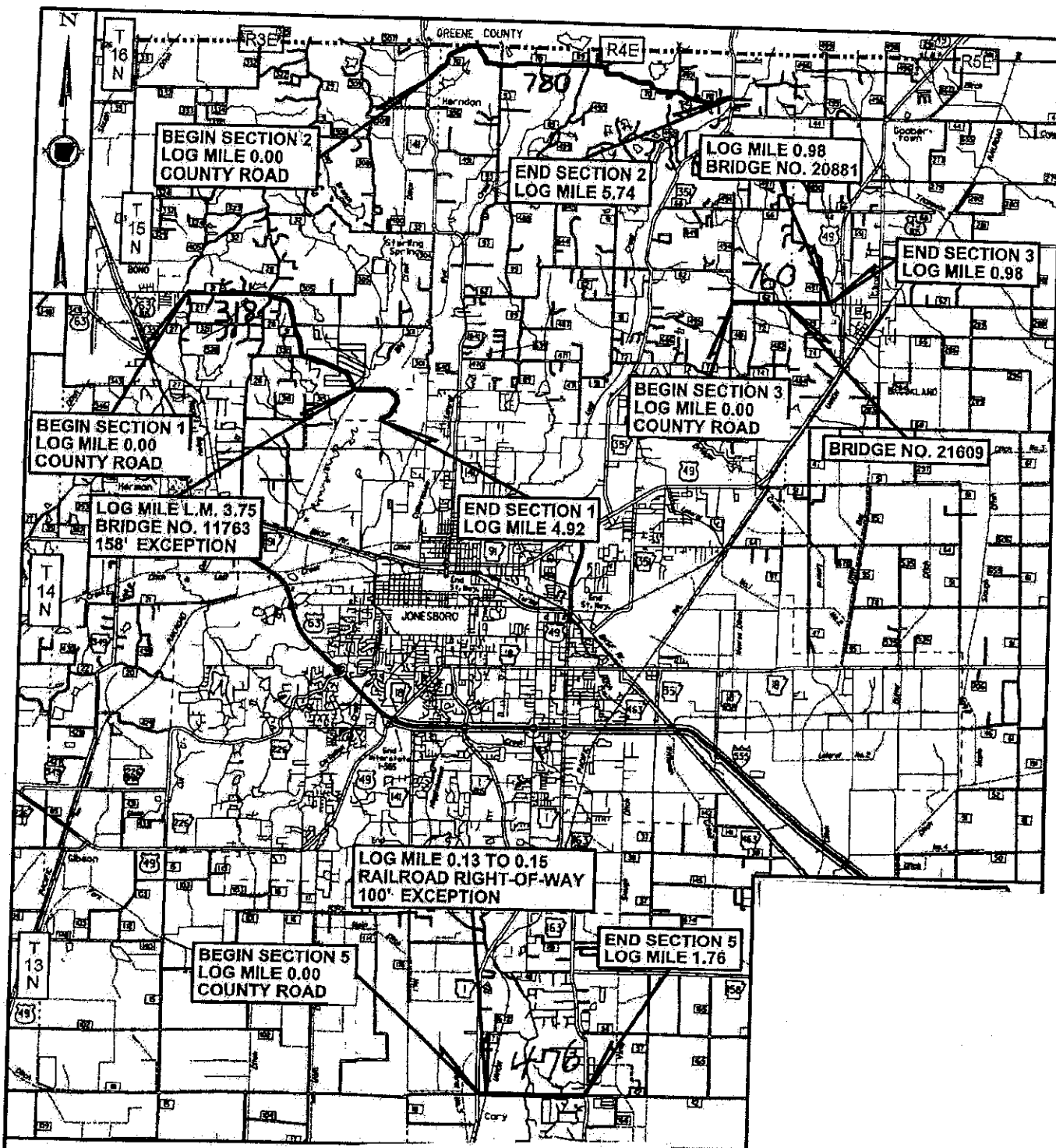
I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company do hereby certify that this power of attorney executed by said Companies is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 17th day of August, 2021.

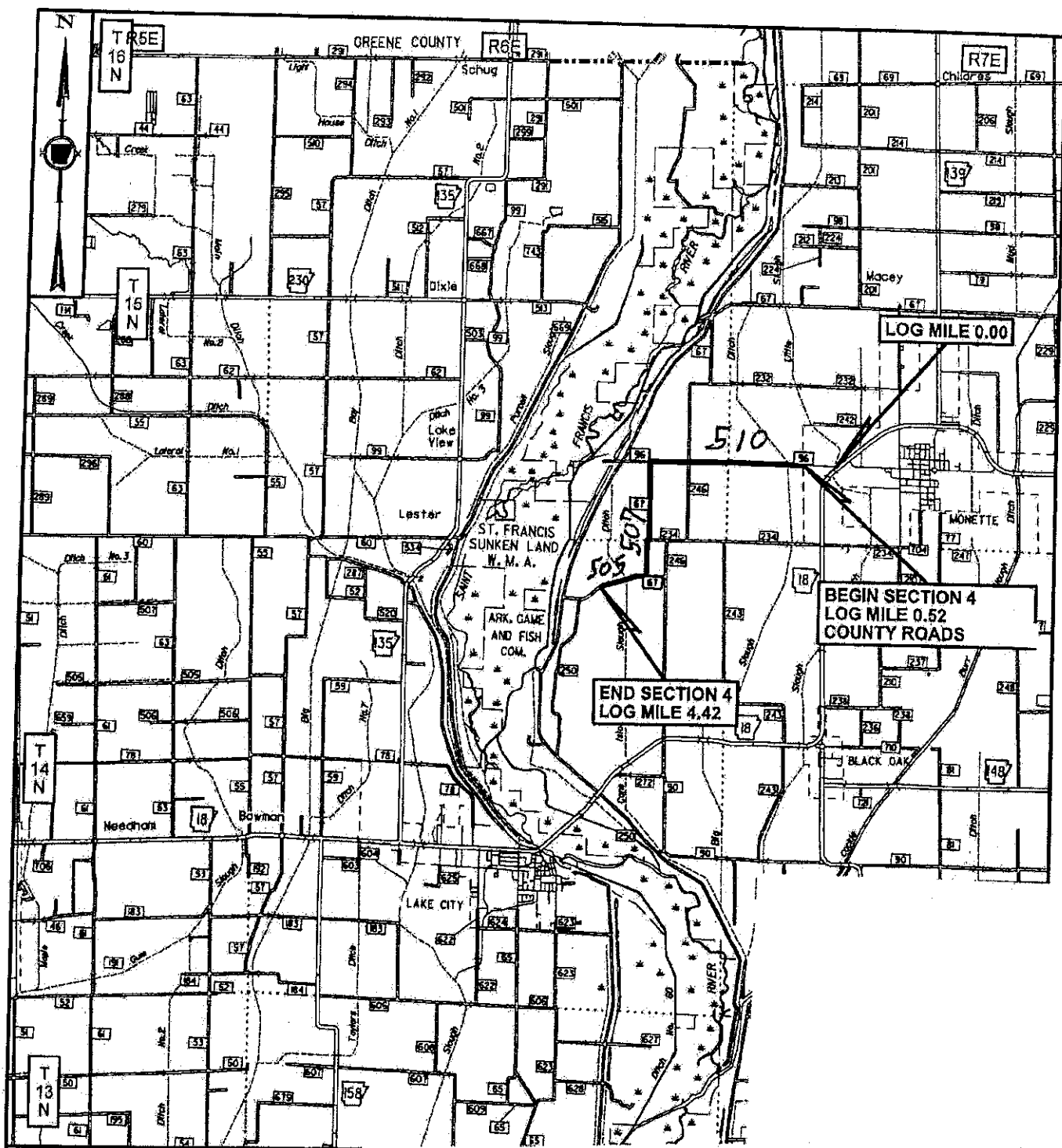


By: Renee C. Llewellyn

Renee C. Llewellyn, Assistant Secretary







**CRAIGHEAD CO. SEALING  
VARIOUS COUNTY ROADS  
CRAIGHEAD COUNTY**

APPROXIMATE BEGINNING OF SECTION 4  
LATITUDE: N 35° 53' 29"  
LONGITUDE: W 90° 22' 26"

Fet

# **SURFACING QUANTITIES**

LOCATION	LOG MILE		LENGTH LIN. FT.	SINGLE ASPHALT SURFACE TREATMENT					FOG SEAL (TYPE 2) GAL.
				WIDTH	SQ. YDS.	MIN. AGGR. (CLASS 4) TONS	ASPHALT (CMS-1PC) GAL.		
	FROM	TO							
SECTION 1 - COUNTY ROAD 318									
MAIN LANES (158' EXCEPTION @ BRIDGE NO. 11763)	0.00	4.92	25820	23.00	65984.4	824.8	19795.3	6598.4	
SECTION 2 - COUNTY ROAD 780									
MAIN LANES	0.00	5.74	30307	21.00	70716.3	884.0	21214.9	7071.6	
COUNTY ROAD 70 AT L.M. 0.00					87.9	1.2	29.4	9.8	
COUNTY ROAD 70 AT L.M. 5.74					107.7	1.3	32.3	10.8	
SECTION 3 - COUNTY ROAD 760									
MAIN LANES	0.00	0.98	5174	21.00	12072.7	150.9	3621.8	1207.3	
SECTION 4 - COUNTY ROADS 505, 507, 510									
MAIN LANES	0.52	4.42	20592	20.00	45760.0	572.0	13728.0	4576.0	
SECTION 5 - COUNTY ROAD 476									
MAIN LANES (100' EXCEPTION @ RAILROAD RIGHT-OF-WAY)	0.00	1.76	9193	22.00	22471.8	280.9	6741.5	2247.2	
0.13	0.15								
TOTALS:									
USE:						2715.1	65163.2	21721.1	
						2715	65163	21721	

BASIS OF ESTIMATE:

FOG SEAL (TYPE 2)

REJUVENATING EMULSIFIED ASPHALT (CMS-1PC)

MINERAL AGGREGATE IN SINGLE ASPHALT SURFACE TREATMENT (CLASS 4)

0.10 GAL. PER SQ. YD.  
0.30 GAL. PER SQ. YD.  
25 POUND PER SQ. YD.

RATES OF APPLICATION FOR MINERAL AGGREGATE AND ASPHALT SURFACE TREATMENT ARE FOR ESTIMATION PURPOSES ONLY.  
EXACT RATES OF APPLICATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

# REFLECTORIZED PAINT PAVEMENT MARKING

DESCRIPTION	LOG MILE		YELLOW MARKING	WHITE MARKING	
	FROM	TO	4"	4"	8"
	LIN. FT.				
SECTION 1 - COUNTY ROAD 318					
MAIN LANES - CONTINUOUS	0.00	4.92	51956	51956	
SECTION 2 - COUNTY ROAD 780					
MAIN LANES - CONTINUOUS	0.00	5.74	50310	60614	
MAIN LANES - SKIP/SOLID	0.00	5.74	3031		
MAIN LANES - SKIP					
ISLAND AT BEGINNING OF SECTION	0.00	5.74	682		
SECTION 3 - COUNTY ROAD 760					
MAIN LANES - CONTINUOUS	0.00	0.98	10348	10348	
SECTION 4 - COUNTY ROADS 505, 507, 510					
MAIN LANES - CONTINUOUS	0.52	4.42	5766	41184	
MAIN LANES - SKIP/SOLID	0.52	4.42	2574		
MAIN LANES - SKIP	0.52	4.42	3912		
SECTION 5 - COUNTY ROAD 476					
MAIN LANES - CONTINUOUS	0.00	1.76	18386		
(100' EXCEPTION @ RAILROAD RIGHT-OF-WAY)					
TOTALS:			146965	164102	40

THIS IS A LOW VOLUME ROAD AS DEFINED IN SECTION 604.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

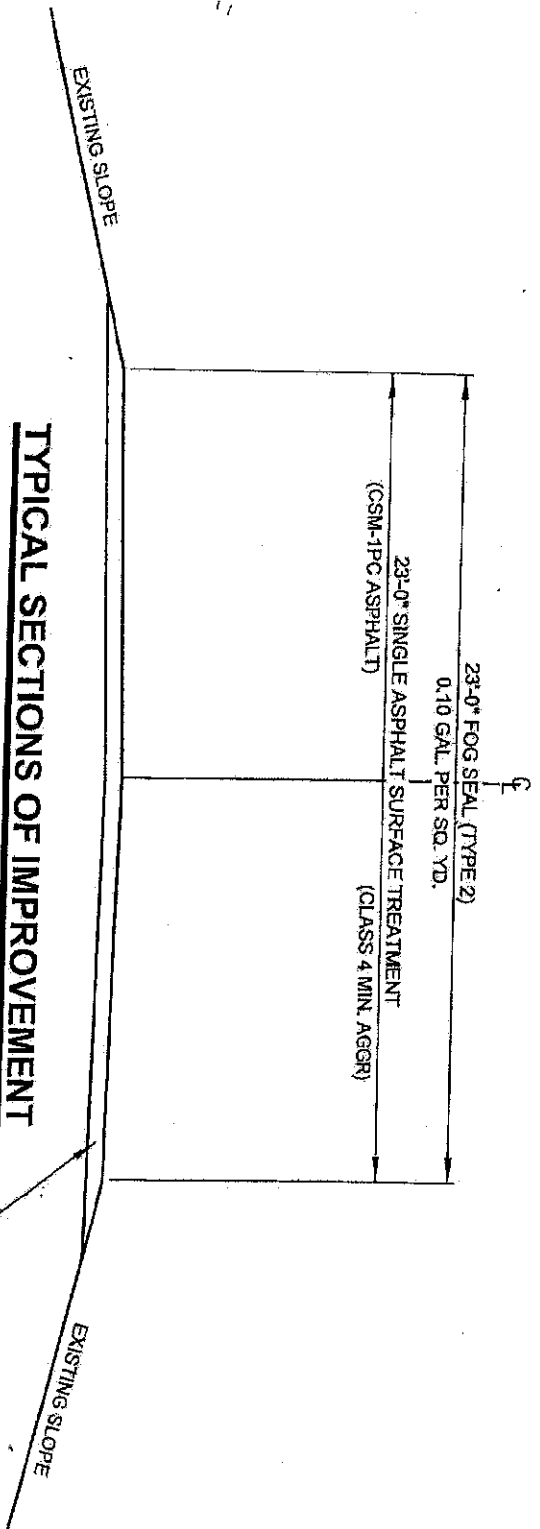
# TRAFFIC CONTROL DEVICES (BOX 1 OF 2)

LOCATION	W20-1										G20-1	G20-2
	1500 FT.		1000 FT.		500 FT.		AHEAD					
	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.	NO.	SQ. FT.
SECTION 1 - COUNTY ROAD 318												
BEGIN SECTION												
COUNTY ROAD 28	1	16.00	1	16.00	1	16.00	2	32.00	1	10.00	1	8.00
COUNTY ROAD 320							2	32.00				
COUNTY ROADS 319 & 339							2	32.00				
END SECTION	1	16.00	1	16.00	1	16.00	2	32.00	1	10.00	1	8.00
SECTION 2 - COUNTY ROAD 780												
BEGIN SECTION												
COUNTY ROAD 93							2	32.00	1	10.00	1	8.00
COUNTY ROAD 89							2	32.00				
COUNTY ROAD 492							1	16.00				
END SECTION									1	10.00	1	8.00
SECTION 3 - COUNTY ROAD 760												
BEGIN SECTION												
COUNTY ROAD 72							1	16.00			1	8.00
COUNTY ROAD 497							1	16.00				
END SECTION	1	16.00	1	16.00	1	16.00	1	16.00			1	8.00
SUBTOTALS (BOX 1 OF 2):												
	3	48.00	3	48.00	3	48.00	15	240.00	4	40.00	6	48.00

## W20-1

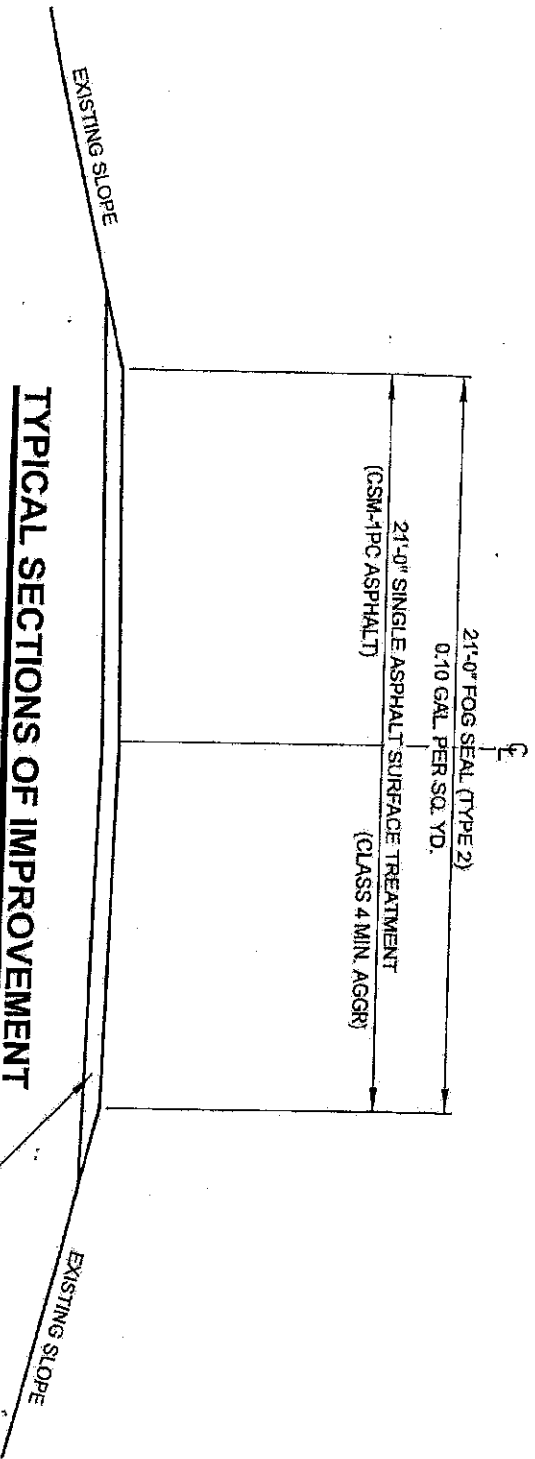
[illegible]

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.



**TYPICAL SECTIONS OF IMPROVEMENT**  
CRAIGHEAD COUNTY  
SECTION 1, COUNTY ROAD 318  
L.M. 0.00 TO 4.92

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.



**TYPICAL SECTIONS OF IMPROVEMENT**

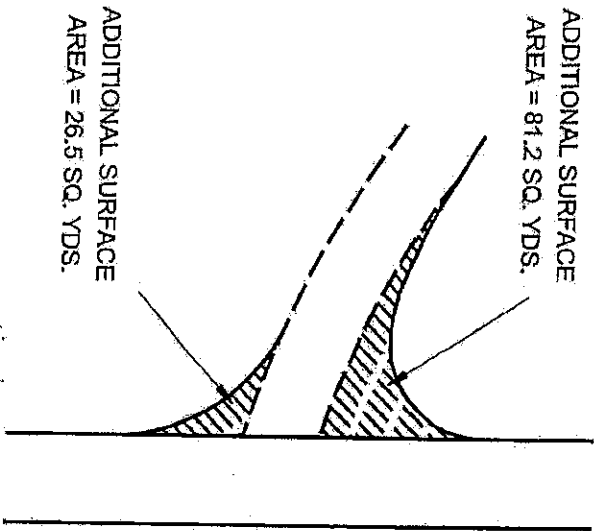
CRAIGHEAD COUNTY

SECTION 2, COUNTY ROAD - L.M. 0.00 TO 5.74  
SECTION 3, COUNTY ROAD - L.M. 0.00 TO 0.98

780

760

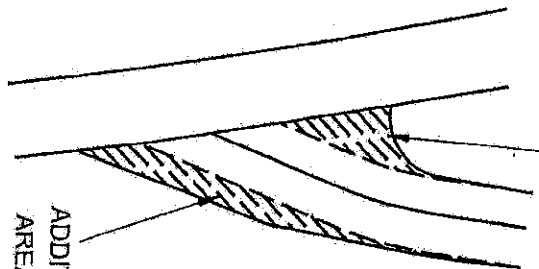




COUNTY ROAD 780 TURNOUT AT SECTION 2 L.M. 5.74  
ADDITIONAL SURFACE AREA = 107.7 SQ. YDS.



ADDITIONAL SURFACE  
AREA = 37.8 SQ. YDS.

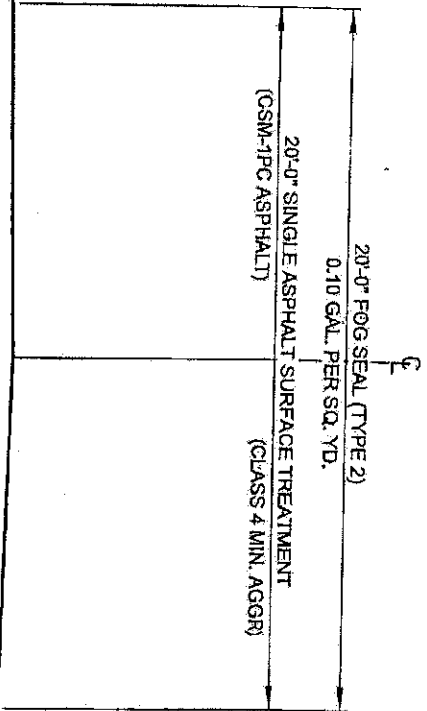


ADDITIONAL SURFACE  
AREA = 60.1 SQ. YDS.

COUNTY ROAD 780 TURNOUT AT SECTION 2 L.M. 0.00  
ADDITIONAL SURFACE AREA = 97.9 SQ. YDS.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.

EXISTING SLOPE



### TYPICAL SECTIONS OF IMPROVEMENT

CRAIGHHEAD COUNTY

SECTION 4, COUNTY ROADS

- L.M. 0.52 TO 4.42

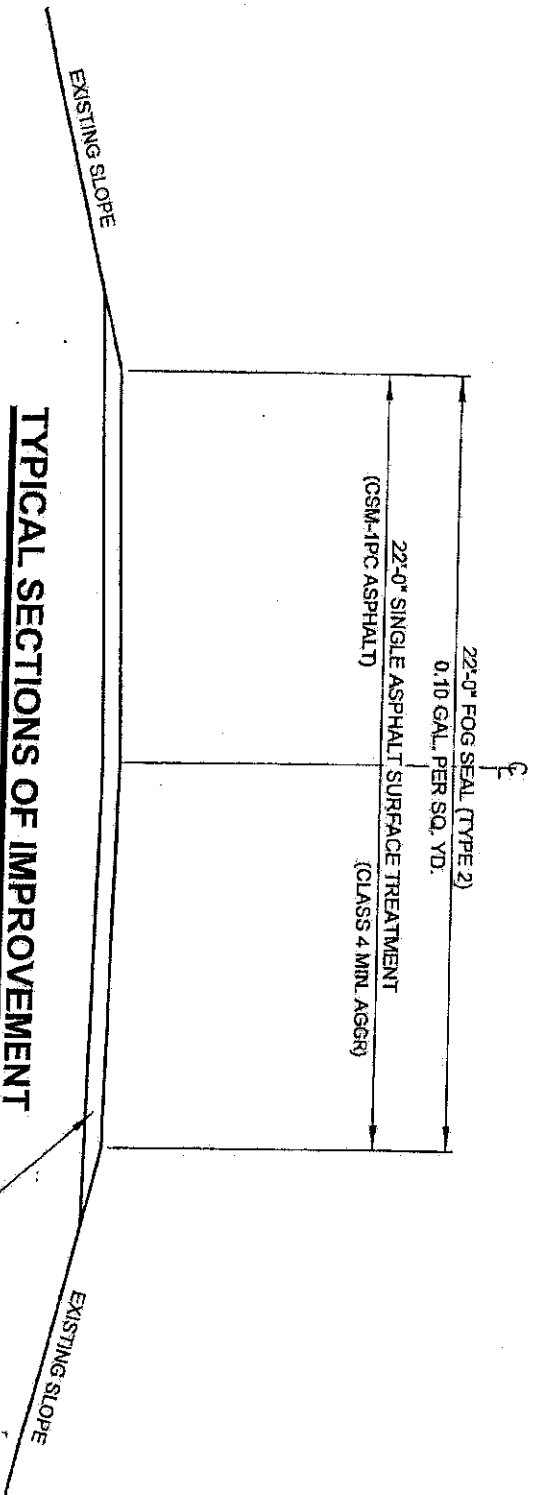
505,507,510

EXISTING SLOPE

EXISTING BASE &  
SURFACE COURSE



NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL  
CONDITIONS AS DIRECTED BY THE ENGINEER.



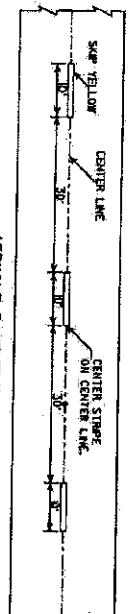
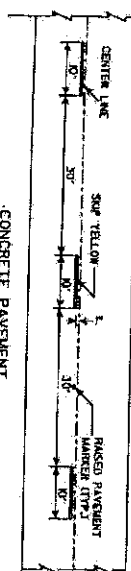
### TYPICAL SECTIONS OF IMPROVEMENT

CRAIGHEAD COUNTY  
SECTION 5, COUNTY ROAD L.M. 0.00 TO 1.76  
476

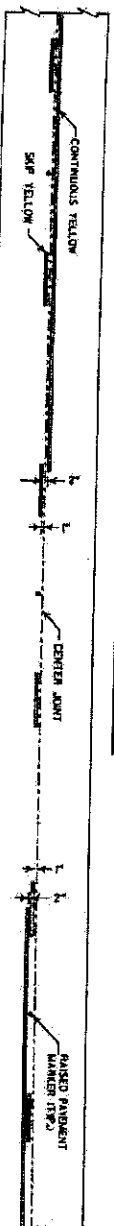
## GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION,  
EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.

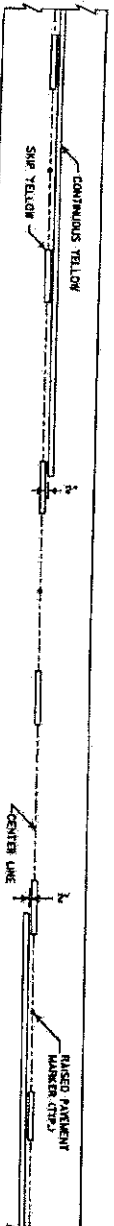
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
306-1	QUALITY CONTROL AND ACCEPTANCE
400-2	ASPHALT SURFACE TREATMENT
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
723-1	GENERAL REQUIREMENTS FOR SIGNS
729-1	CHANNEL POST SIGN SUPPORT
JOB SA1664	BIDDING REQUIREMENTS AND CONDITIONS
JOB SA1664	FOG SEAL
JOB SA1664	MANDATORY ELECTRONIC CONTRACT
JOB SA1664	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB SA1664	REJUVENATING MASS CRACK TREATMENT



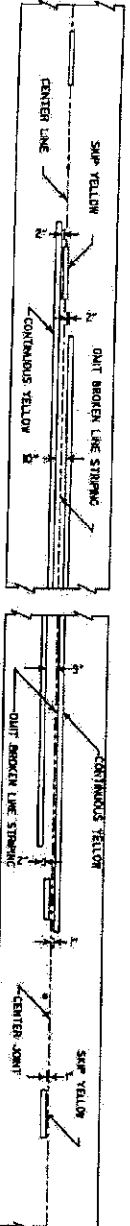
### BROKEN LINE STRIPING



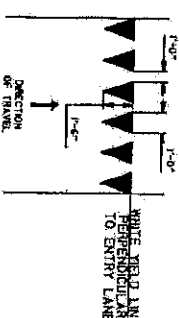
### SOLID LINE STRIPING ON CONCRETE PAVEMENT



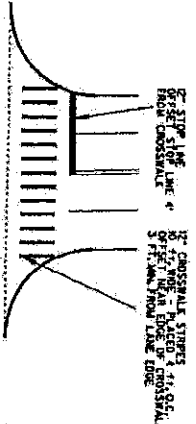
### SOLID LINE STRIPING ON ASPHALT PAVEMENT



### STRIPING AT ADJACENT NO PASSING LANES



### YIELD LINE DETAIL



### CROSSWALK AND STOP LINE DETAILS

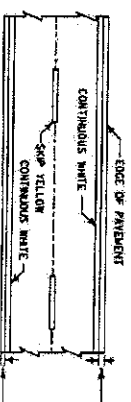
DATE	BY	CHKD	APP'D	REVISION
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	1
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	2
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	3
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	4
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	5
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	6
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	7
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	8
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	9
1-1-78	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS	10

### PAVEMENT MARKING DETAILS

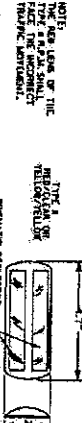
STANDARD DRAWING PM-1

- NOTES:
1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING DETAILS.
  2. THE POLYMER SHALL BE USED IN CONJUNCTION WITH THE LATEST RECOMMENDED PRACTICES.
  3. RAISED PAVEMENT MARKERS SHALL BE PLACED SHOWN IN THE PLAN.

2" FOR ASPHALT ON CONCRETE PAVEMENT  
6" FOR BRIDGES SURFACE TREATMENT

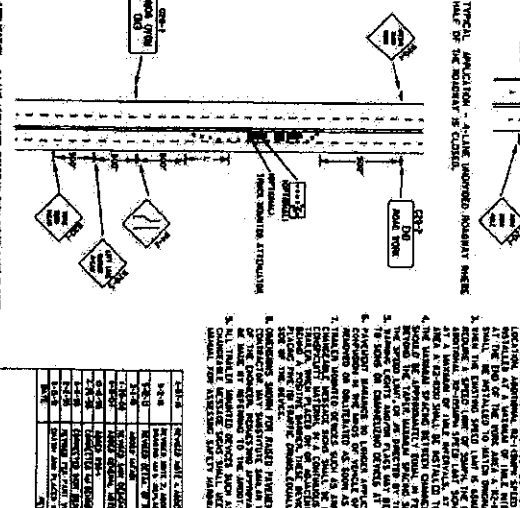
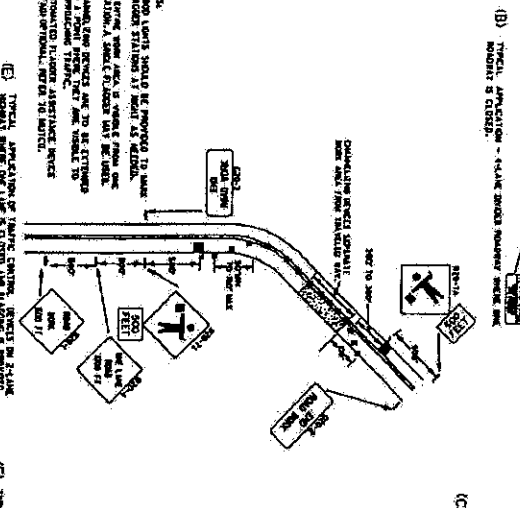
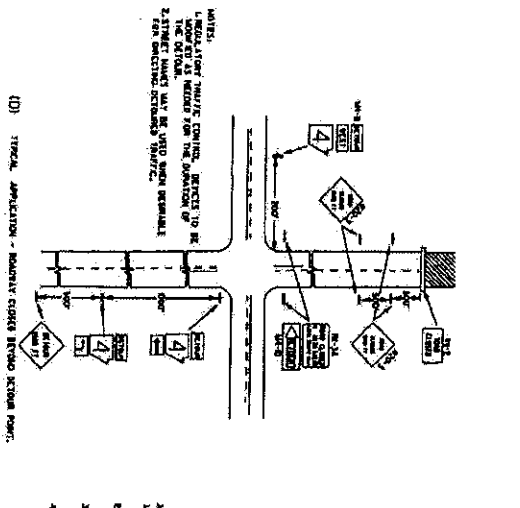
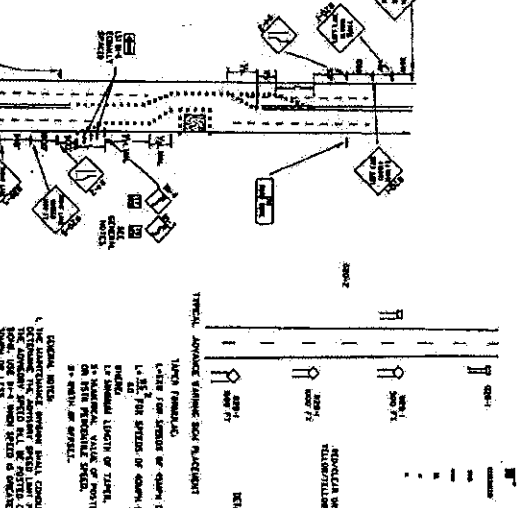
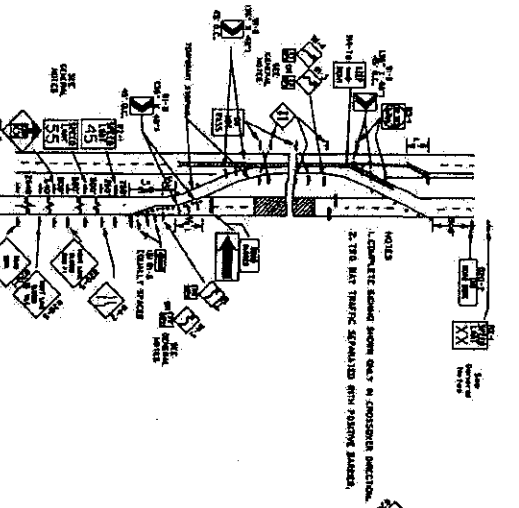
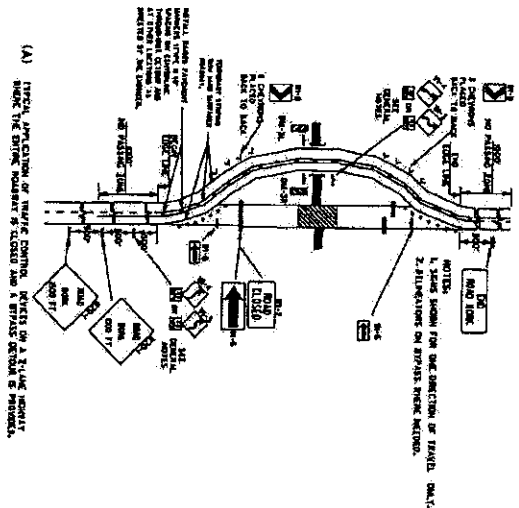


### PAVEMENT EDGE LINE MARKING



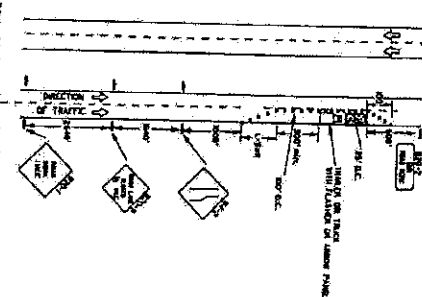
NOTE: THE KEY LINE OF THE MARKING SHALL BE THE FACE OF THE MARKING TRAFFIC SURFACE.

### DETAIL OF STANDARD RAISED PAVEMENT MARKERS

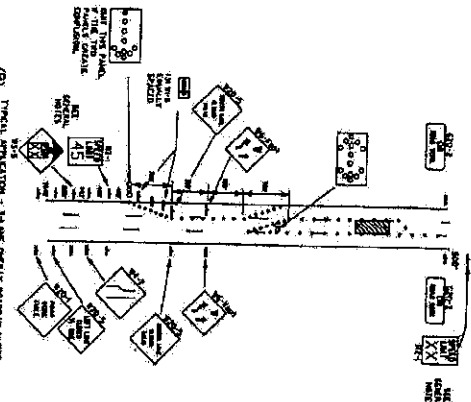


CLASS	DESCRIPTION	PLACEMENT	NOTES
1	ADVANCE WARNING SIGN	100 FT	1. ADVANCE WARNING SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
2	SPEED LIMIT SIGN	100 FT	2. SPEED LIMIT SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
3	DIRECTIONAL SIGN	100 FT	3. DIRECTIONAL SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
4	STOP SIGN	100 FT	4. STOP SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
5	YIELD SIGN	100 FT	5. YIELD SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
6	NO LEFT TURN SIGN	100 FT	6. NO LEFT TURN SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
7	NO RIGHT TURN SIGN	100 FT	7. NO RIGHT TURN SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
8	NO U-TURN SIGN	100 FT	8. NO U-TURN SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
9	NO THROUGH TRUCKS SIGN	100 FT	9. NO THROUGH TRUCKS SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
10	NO TRUCKS OVER 10,000 LBS SIGN	100 FT	10. NO TRUCKS OVER 10,000 LBS SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
11	NO TRUCKS OVER 10,000 LBS AND 10' HIGH SIGN	100 FT	11. NO TRUCKS OVER 10,000 LBS AND 10' HIGH SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
12	NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE SIGN	100 FT	12. NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
13	NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE AND 10' LONG SIGN	100 FT	13. NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE AND 10' LONG SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
14	NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE AND 10' LONG AND 10' WIDE SIGN	100 FT	14. NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE AND 10' LONG AND 10' WIDE SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.
15	NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE AND 10' LONG AND 10' WIDE AND 10' DEEP SIGN	100 FT	15. NO TRUCKS OVER 10,000 LBS AND 10' HIGH AND 8' WIDE AND 10' LONG AND 10' WIDE AND 10' DEEP SIGNS SHALL BE PLACED IN THE APPROACH TO THE CONTROLLED SECTION.

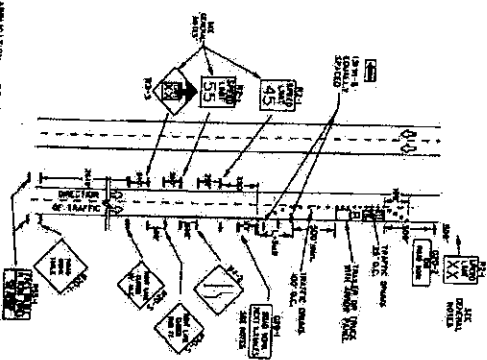
(A) TYPICAL JUNCTION - VARIOUS VARIATIONS OPERATIONS OF SHORT DURATION OF A



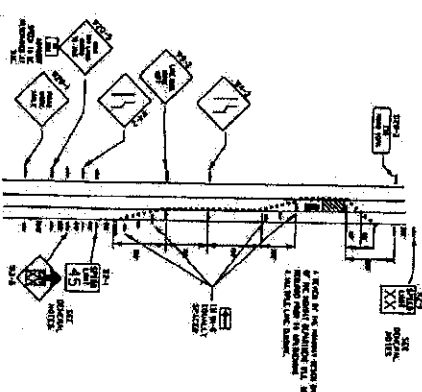
(B) TYPICAL JUNCTION - JAWING GREATLY INCREASED WORK



(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM



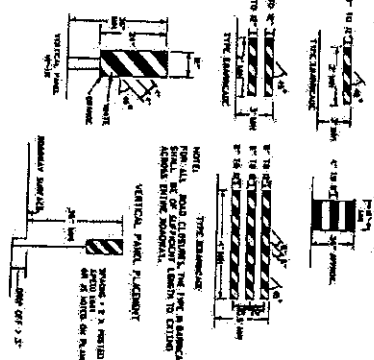
(D) TYPICAL APPLICATION - CLOSING AND REOPENING OF A MAINLINE HIGHWAY



**CHANNELING DEVICES**

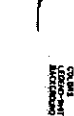
1. CHANNEL DEVICES ARE USED TO DIRECT AND CONTROL THE FLOW OF TRAFFIC THROUGH A CONSTRUCTION ZONE. THEY ARE USED TO PROTECT THE WORK AREA FROM TRAFFIC AND TO MAINTAIN THE FLOW OF TRAFFIC THROUGH THE CONSTRUCTION ZONE.

2. CHANNEL DEVICES ARE USED TO PROTECT THE WORK AREA FROM TRAFFIC AND TO MAINTAIN THE FLOW OF TRAFFIC THROUGH THE CONSTRUCTION ZONE.

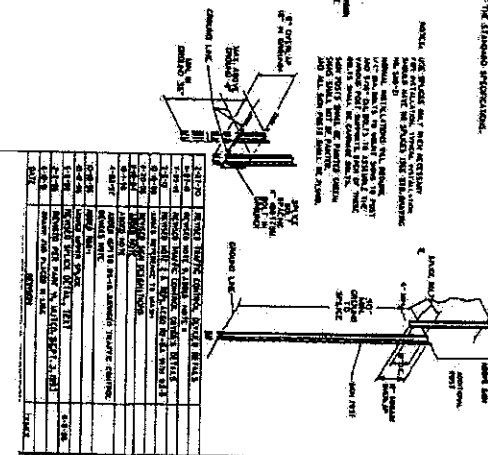
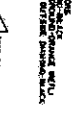


CHANNELING DEVICES		CHANNELING DEVICES	
LOCATION	TYPE	LOCATION	TYPE
1. ADVANCE WARNING	1. ADVANCE WARNING	1. ADVANCE WARNING	1. ADVANCE WARNING
2. CHANNEL DEVICES	2. CHANNEL DEVICES	2. CHANNEL DEVICES	2. CHANNEL DEVICES
3. CHANNEL DEVICES	3. CHANNEL DEVICES	3. CHANNEL DEVICES	3. CHANNEL DEVICES
4. CHANNEL DEVICES	4. CHANNEL DEVICES	4. CHANNEL DEVICES	4. CHANNEL DEVICES
5. CHANNEL DEVICES	5. CHANNEL DEVICES	5. CHANNEL DEVICES	5. CHANNEL DEVICES
6. CHANNEL DEVICES	6. CHANNEL DEVICES	6. CHANNEL DEVICES	6. CHANNEL DEVICES
7. CHANNEL DEVICES	7. CHANNEL DEVICES	7. CHANNEL DEVICES	7. CHANNEL DEVICES
8. CHANNEL DEVICES	8. CHANNEL DEVICES	8. CHANNEL DEVICES	8. CHANNEL DEVICES
9. CHANNEL DEVICES	9. CHANNEL DEVICES	9. CHANNEL DEVICES	9. CHANNEL DEVICES
10. CHANNEL DEVICES	10. CHANNEL DEVICES	10. CHANNEL DEVICES	10. CHANNEL DEVICES

**STABILIZED WEDGE**





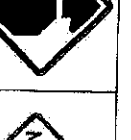
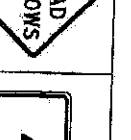
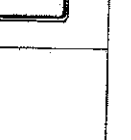

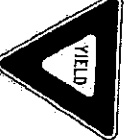



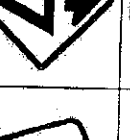
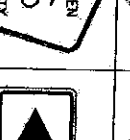
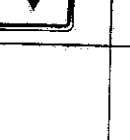



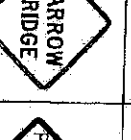
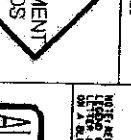
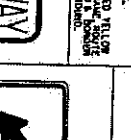
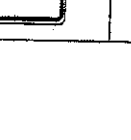
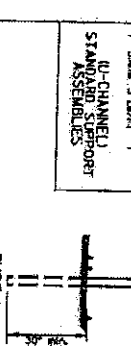

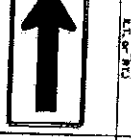
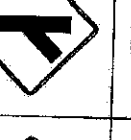
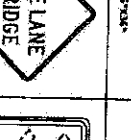
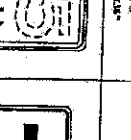
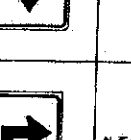

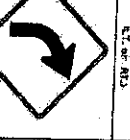
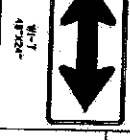
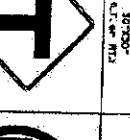
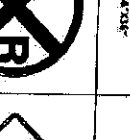
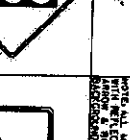
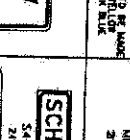


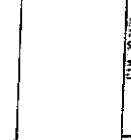
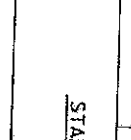
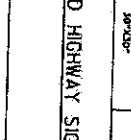
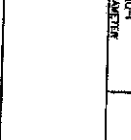
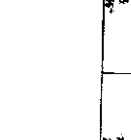
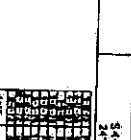
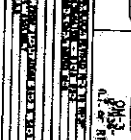


**STOP SLOW BLOCK**







 <p>RE-1 30"x30"</p>	 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-4 30"x30" 4.5' or 6' H</p>	 <p>W-2 30"x30"</p>	 <p>W-2 30"x30"</p>	 <p>W-1 30"x30"</p>	 <p>W-6-3 24"x36"</p>	 <p>MINIMUM DIMENSIONS SHOWN SUPPORT SECTION TYPE A TYPE B TYPE C</p>
 <p>W-4 30"x30" 4.5' or 6' H</p>	 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-2 30"x30"</p>	 <p>W-2 30"x30"</p>	 <p>W-1 30"x30"</p>	 <p>W-6-3 24"x36"</p>	 <p>W-6-3 24"x36"</p>	
 <p>W-1 30"x30" 4.5' or 6' H</p>	 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-2 30"x30"</p>	 <p>W-2 30"x30"</p>	 <p>W-1 30"x30"</p>	 <p>W-6-3 24"x36"</p>	 <p>W-6-3 24"x36"</p>	 <p>MINIMUM DIMENSIONS SHOWN SUPPORT SECTION TYPE A TYPE B TYPE C</p>
 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-2 30"x30"</p>	 <p>W-2 30"x30"</p>	 <p>W-1 30"x30"</p>	 <p>W-6-3 24"x36"</p>	 <p>W-6-3 24"x36"</p>	
 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-2 30"x30"</p>	 <p>W-2 30"x30"</p>	 <p>W-1 30"x30"</p>	 <p>W-6-3 24"x36"</p>	 <p>W-6-3 24"x36"</p>	 <p>MINIMUM DIMENSIONS SHOWN SUPPORT SECTION TYPE A TYPE B TYPE C</p>
 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-3 30"x30" 4.5' or 6' H</p>	 <p>W-2 30"x30"</p>	 <p>W-2 30"x30"</p>	 <p>W-1 30"x30"</p>	 <p>W-6-3 24"x36"</p>	 <p>W-6-3 24"x36"</p>	

STANDARD HIGHWAY SIGNS

SUPPORT ASSEMBLIES



ADDENDUM

TO

BID 2021-34

BID INVITATION

ASPHALT SEALING & STRIPING

VARIOUS COUNTY ROADS

THIS ADDENDUM SHALL BECOME PART OF BID PACKAGE 2021-34

CRAIGHEAD COUNTY ARKANSAS

04-08-2014  
03-09-2016 Rev.  
11-16-2017 Rev.  
10-25-2018 Rev.  
12-06-2018 Rev.  
01-09-2020 Rev.  
09-17-2020 Rev.

Page 1 of 4

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**FOG SEAL**

**Description:** This work shall consist of the uniform application of an asphalt emulsion to an existing paved surface by means of a bituminous distributor meeting the requirements of Section 403 of Standard Specifications for Highway Construction, 2014 Edition, and/or as directed by the Engineer.

**Materials:** The Fog Seal emulsified asphalt shall meet the properties in the table below. Type 1 is a commodity slow setting, low residue emulsion. Type 2 an emulsion designed for quick traffic return. Type 3 is a polymer modified emulsion for general use. Type 4 is a polymer modified emulsion designed for the rejuvenation of oxidized Hot Mix Asphalt.

TEST ON EMULSION	TEST METHOD	Type 1 (MIN) (MAX)		Type 2 (MIN) (MAX)		Type 3 (MIN) (MAX)		Type 4 (MIN) (MAX)	
Viscosity, Saybolt-Furol, @ 77°F, SFS	AASHTO T 59	-	100	-	100	-	100	10	100
Particle Charge	AASHTO T 59	(*) or (-)		(*) or (-)		(*) or (-)		(*) or (-)	
Sieve Test, %	AASHTO T 59	-	-	-	0.3	-	0.3	-	0.3
Storage, 24 hour, %	AASHTO T 59	-	-	-	-	-	-	-	1
Oil Distillate, %	AASHTO T 59	-	-	-	-	-	-	-	0.5
Residue properties from Distillation <sup>1</sup>									
Residue, %	AASHTO T 59	30	-	30	-	30	-	30	-
MSCR @ 64°C, J <sub>w</sub> @ 3.2/kPa	AASHTO T 350	-	-	-	2.0	-	-	-	-
Penetration, 77°F, 100g, 5 sec	AASHTO T 49	90	250	-	-	40	90	-	-
Elastic Recovery, 25°C, %		-	-	-	-	40	-	-	-
Penetration, 4°C, 200g, 60 sec		-	-	-	-	-	-	30	-
Residue properties from Low Temp Evaporation	AASHTO R 78 Procedure B								
MSCR @ 52°C, J <sub>w</sub> @ 3.2/kPa	AASHTO TP70	-	-	-	-	-	-	-	2.0
Polymer Properties <sup>(2)</sup>									
Tests on Modifier Mass Change, %	ASTM D471 (modified)	-	-	-	-	-	-	-	50%
Test on Rejuvenating Agent									
Flash Point, COC, °F	AASHTO T 48	-	-	-	-	-	-	380	-
Viscosity, 140 °F, CST	AASHTO T 201	-	-	-	-	-	-	50	175
Saturate, % by wt	ASTM D2007	-	-	-	-	-	-	-	30
Asphaltenes	ASTM D2007	-	-	-	-	-	-	-	1.0
Test on Rejuvenating Residue		-	-	-	-	-	-	-	-
Weight change, %w	ASTM D2872	-	-	-	-	-	-	-	6.5
Viscosity Ratio (RTFO/Orig.)	ASTM D2170	-	-	-	-	-	-	-	3

See next page for footnotes.

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**FOG SEAL**

**Footnotes**

1. Exception to AASHTO T 59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain this temperature for 20 minutes. Complete the total distillation in 60 plus or minus 5 minutes.
2. For modifications for Polymer Properties testing, refer to Appendix A Test Modifications.
3. Modify ASTM D471 as follows:
  - a. Place 0.8g of modifier into an 18-mm silicone rubber DSR mold
  - b. If necessary, dry at ambient lab conditions for 72 hr.
  - c. Remove the modifier from the mold and place the sample into a forced draft oven on release paper for 48 hr at 40°C.
  - d. After 48 hr, cool and weigh the sample to the nearest 0.0001 g. Record the weight.
  - e. Pour 30 g of rejuvenating agent in a 90-ml metal container.
  - f. Place modifier sample in the container and add another 30 g of rejuvenating agent. Ensure the modifier sample is completely covered; add more rejuvenating agent if necessary.
  - g. Cover the container with a metal lid and place it into a 40°C oven for 48 hr.
  - h. Remove the sample from the container. Use a paper towel to blot the surface of the sample to remove excess rejuvenator. Allow sample to cool to room temperature and weigh to the nearest 0.0001 g.
  - i. Calculate the mass change, expressed in Equation 1. Mass change will be positive.

$$\text{Mass Change (\%)} = \frac{M_2 - M_1}{M_1} \times 100$$

Where:

M<sub>1</sub> = Mass of modifier sample before being conditioned in the rejuvenating agent (g); and  
M<sub>2</sub> = Mass of modifier sample after conditioning in the rejuvenating agent (g).

**Equipment**

**Asphalt Distributor:** The mechanical pressure distributor shall meet the requirements of Subsection 403.06. The spray nozzles shall be rated and of the size recommended for a uniform application rate.

**Rotary Broom:** The Rotary Broom shall be capable of removing dust, debris, and loose mineral aggregate from the surface as needed and based on the specifications herein.

**Equipment Calibration:** The asphalt distributor shall be calibrated by applying asphalt emulsion for a continuous section of minimum 500 ft. The amount of material distributed shall be within 5% of the intended application rate and shall be verified by use of a strapping stick as supplied by the equipment manufacturer. Neither a visual gauge indicating volume nor the computer readout shall be used as a calibration method. The application rate is measured in gal/square yard.

**Test Strip:** Prior to the beginning of the project, the contractor may be required to perform a test strip in a suitable area such as a parking lot or staging area to assure the materials, contractor personnel, and equipment are suitable to produce a satisfactory Fog Seal. The location for the test strip shall be approved by the Engineer. The test strip may be conducted as part of the calibration procedure or may be conducted as part of the project.

04-08-2014  
03-09-2016 Rev.  
11-16-2017 Rev.  
10-25-2018 Rev.  
12-06-2018 Rev.  
01-09-2020 Rev.  
09-17-2020 Rev.

Page 3 of 4

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**FOG SEAL**

**Surface Preparation**

**General:** Immediately prior to applying the Fog Seal, the pavement surface shall be cleared of all loose material, silt spots, vegetation, and other objectionable material. If water is used, cracks shall be allowed to dry thoroughly before applying the asphalt emulsion. Manholes, valve boxes, drop inlets, and other service entrances shall be protected from the rejuvenating Fog Seal by a suitable method. Thermoplastic and other striping should be removed or protected prior to application of the asphalt emulsion. The Engineer shall approve the surface preparation prior to application of the Fog Seal.

**Material Storage and Handling**

**Asphalt Emulsion:** It is expected that the contractor follows the manufacturer guidelines for storage and handling of the specified Fog Seal emulsion.

**Aggregate:** Aggregate intended for use on the project shall be maintained in such manner as to protect it from contamination by debris and excess moisture. Large or oversized particles shall be removed from the aggregate by screening or other acceptable method prior to use on the project.

**Seasonal Limitations:** The Fog Seal shall be placed between April 1 - September 30 for travel lanes and April 1 - October 30 for shoulders.

**Construction Requirements:** The pavement surface shall be swept and cleaned in accordance with Subsection 402.03(b). Fog Seal shall not be applied when the air or pavement temperature is below 50°F, nor shall it be applied to a surface exhibiting moisture, nor when general weather conditions, in the opinion of the Engineer, are not suitable. Road surface must be dry. Do not apply during foggy weather or when rain is likely to occur the same or following day. In order to allow enough time for the Fog Seal to completely cure, Fog Seal shall not be applied after 3:00 pm in order to allow for complete curing before opening the lane to traffic, unless otherwise approved by the Engineer prior to application (based on weather and traffic conditions). The distributor shall be so adjusted and operated as to distribute evenly the material being applied at a rate between 0.05-0.15 gallons/square yard as indicated on the plans. The application rate shall vary according to the demands of the pavement and shall be determined by the Engineer.

**Traffic Control:** Traffic control shall be maintained until the product has sufficiently cured to withstand traffic without damage. The Fog Seal shall be completely broken before traffic is permitted to drive on it.

04-08-2014  
03-09-2016 Rev.  
11-16-2017 Rev.  
10-25-2018 Rev.  
12-06-2018 Rev.  
01-09-2020 Rev.  
09-17-2020 Rev.

Page 4 of 4

**ARKANSAS DEPARTMENT OF TRANSPORTATION**  
**SPECIAL PROVISION**  
**JOB NO.**  
**FOG SEAL**

**Aggregate:** Aggregate is used only as a blotting agent in areas of excess emulsion application or as a means to protect a freshly placed seal in high traffic areas or to facilitate early return to traffic. The aggregate shall be any suitable manufactured or natural sand with top-sized material of less than 0.25 inch. Furnish and uniformly distribute clean, fine sand on the surface to blot excess when an excessive quantity of asphalt is applied. If sand is required, the application rate should be 1.0-2.0 lbs/square yard. Deposits of asphalt material upon the road surface in excess of the quantity specified, caused by stopping or starting the distributor, overflow, leakage, or otherwise, shall be removed at no cost to the Department.

**Method of Measurement:** Fog Seal shall be measured by the gallon.

**Basis of Payment:** Work completed and measured as provided above will be paid for at the contract unit price bid per gallon for Fog Seal. The bid price shall be full compensation for surface preparation, furnishing, preparing, hauling, application of the Fog Seal, and removing of Aggregate used for blotting; and for all equipment, tools, labor, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item	Pay Unit
Fog Seal (Type ____)	Gallon

# ARKANSAS DEPARTMENT OF TRANSPORTATION

## SPECIAL PROVISION

JOB NO.

### REJUVENATING MASS CRACK TREATMENT

#### Description:

This item shall consist of the application of a polymer modified asphalt rejuvenating mass crack treatment, as specified, according to these specifications, and in reasonably close conformity with the plans or as directed.

The treatment consists of furnishing properly distributed rejuvenating asphalt emulsion scrubbed into the cracks and voids followed by a uniform application of aggregate for building a riding surface, improving the surface friction of a roadway, sealing cracks in the roadway, reducing the rate of oxidation of a surface mixture, or as an interlayer to delay or reduce the occurrence of reflective cracking.

#### Materials:

- (a) **Asphalt Emulsion.** The asphalt emulsion for rejuvenating mass crack treatment shall meet the requirements of the following table and shall be composed of a polymer modifier, a petroleum based rejuvenating agent, and asphalt. The emulsion supplier shall receive quarterly certificates of analysis (COA) for both the polymer and rejuvenating agency manufacturers. The COAs shall be provided to the Department upon request.

Property	Test Procedure (AASHTO)	Specification (min) (max)	
Emulsion Properties			
Viscosity, Saybolt-Furol, @ 77°F, SFS	T59	50	350
Storage, 24 hour, %	T59	-	1
Oil Distillate, %	T59	-	0.5
Sieve Test, %	T59	-	0.1
Residue by Distillation <sup>(1)</sup> @ 350°F, %	T59	60	-
Residue Properties From Distillation	T59		
Penetration @ 4°C , 200g weight, 60 sec	T49	30	-
Residue Properties From Low Temp Evaporation	R78, Procedure B		
MSCR @ 52°C, J <sub>nr</sub> @ 3.2/kPa	ASTM D7405	-	4.0
Polymer Properties <sup>(2)</sup>			
Tests on Modifier Mass Change, %	ASTM D471 (modified)		50%
Test on Rejuvenating Agent			
Flash Point, COC, °F	ASTM D92	380	-
Viscosity, 140°F, cSt	ASTM D2170	50	175
Saturate, % by wt	ASTM D2007	-	30
Asphaltenes	ASTM D2007	-	1.0
Test on Residue from RTFO			
Weight change, %	ASTM D2872	-	6.5
Viscosity Ratio	ASTM D2170	-	3



ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT

1. Exception to AASHTO T59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain this temperature for 20 minutes. Complete the total distillation in 60 plus or minus 5 minutes.
2. Modify ASTM D471 as follows:
  - a. Place 0.8g of modifier into an 18-mm silicone rubber DSR mold.
  - b. If necessary, dry at ambient lab conditions for 72 hr.
  - c. Remove the modifier from the mold and place the sample into a forced draft oven on release paper for 48 hr at 40°C.
  - d. After 48 hr, cool and weigh the sample to the nearest 0.0001 g. Record the weight.
  - e. Pour 30 g of rejuvenating agent in a 90-ml metal container.
  - f. Place modifier sample in the container and add another 30 g of rejuvenating agent. Ensure the modifier sample is completely covered; add more rejuvenating agent if necessary.
  - g. Cover the container with a metal lid and place it into a 40°C oven for 48 hr.
  - h. Remove the sample from the container. Use a paper towel to blot the surface of the sample to remove excess rejuvenator. Allow sample to cool to room temperature and weigh to the nearest 0.0001 g.
  - i. Calculate the mass change, expressed in Equation 1. Mass change will be positive.
    - i.  $\text{Mass Change (\%)} = \frac{M_2 - M_1}{M_1} \times 100$
    - ii. Where:
    - iii.  $M_1$  = Mass of modifier sample before being conditioned in the rejuvenating agent (g); and
    - iv.  $M_2$  = Mass of modifier sample after conditioning in the rejuvenating agent (g).

(b) **Rejuvenating Agent.** The manufacturer of the rejuvenating agent, through the emulsion supplier and the contractor, shall submit to the Department test results certifying that the material meets the specification shown in the table above. The Department shall not accept test results dated more than 120 calendar days from the date of the project start. At any time during the project, the Department may obtain, and have tested at Department expense, samples of the rejuvenating agent being used in manufacturing of emulsion delivered to the project.

(c) **Latex Polymer.** The manufacturer of the latex polymer, through the emulsion supplier and the contractor, shall submit to the Department test results certifying that the material meets the specification shown in the table above. The Department shall not accept test results dated more than 120 calendar days from the date of the project start. At any time during the project, the Department may obtain, and have tested at Department expense, samples of the latex polymer being used in manufacturing of emulsion delivered to the project.

(d) **Aggregate.** Unless otherwise noted, the aggregate material shall be crushed stone listed in and meeting the requirements of Subsection 403.01 and having a gradation of Class 4 Mineral Aggregate as indicated in Subsection 403.02. When a Rejuvenating Mass Crack Treatment is to be used as an interlayer a Class 1 Mineral Aggregate as indicated in Subsection 403.02 may be used. It shall be stated in the plans if the Class 1 Mineral aggregate is required.

**Equipment:**

(a) **Pressure Distributor.** An approved mechanical pressure distributor shall meet the requirements of Section 403.

## ARKANSAS DEPARTMENT OF TRANSPORTATION

### SPECIAL PROVISION

#### JOB NO.

#### REJUVENATING MASS CRACK TREATMENT

**(b) Broom Sled.** A broom sled as described herein shall be used to force the emulsion into cracks and voids after application of the emulsion from a pressurized distributor and before the application of aggregate.

The broom sled frame shall be constructed of metal and equipped with means to be attached to and pulled by the distributor truck.

The broom sled must be equipped with a means of raising and lowering the broom sled when desired. It shall be towable in the elevated position. The height of the broom sled assembly shall be adjustable related to the amount of emulsion carried by the broom heads themselves such that, regardless of application rate, the broom sled carries an excess of emulsion in front of the broom heads across the width of the area to be treated while containing the emulsion inside of the broom sled frame and not outside of the intended width of the treatment.

The main body of the broom sled shall have an overall frame size similar to the one shown in the drawing below. The nearest and furthest members, paralleling the back of the distributor truck, and diagonal members shall be equipped with street brooms. The leading member and the trailing member shall have broom heads angled at approximately 10 to 15 degrees off the centerline of the supporting member. The diagonal members shall have broom heads attached in line with the centerline of the supporting member. Each individual street broom attached to the broom sled assembly shall have a density of bristles to sufficiently push the emulsion evenly within the desired area of application. The stiffness of the bristles shall not bend excessively during application and spreading of the emulsion.

The broom sled shall be equipped with hinged wing assemblies attached to the main body not to exceed 4.5 feet per side, with diagonals and equipped with the identical street brooms as described herein.

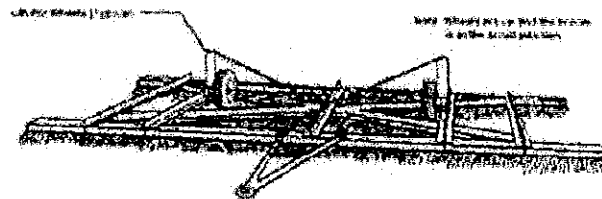
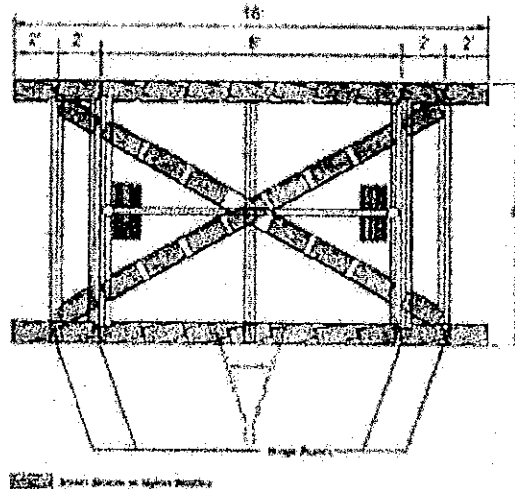
The purpose of the maximum rigid frame width and the hinged wing extensions is not only for maximum width of 16 feet but to maintain the scrubbing process evenly as contours and cross-sections change across the existing road surface. A means or method of controlling the broom sled, causing it to track evenly behind the distributor in curves and on cross slopes, is required.

All broom sled designs shall be submitted to the Department for approval. Demonstration that the broom sled design is capable of filling the cracks with emulsion shall be performed prior to the Engineer approving the broom sled design. Demonstration of the broom sled may be performed on the test strip. An example broom sled design diagram is included in this document.

ARKANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION

JOB NO.

REJUVENATING MASS CRACK TREATMENT



Scrub Broom

(c) **Aggregate Spreader.** The mechanical aggregate spreader shall meet the requirements of Subsection 403.07.

(d) **Rollers.** Rollers shall meet the requirements of Subsection 403.08.

(e) **Rotary Broom.** The Rotary Broom shall be capable of removing debris and loose mineral aggregate from the surface as needed and based on the specifications herein.

**Test Strip:**

Prior to the beginning of the project, the contractor shall be required to perform a test strip with a minimum length of 100 feet to assure the materials, contractor personnel and equipment are suitable to produce a satisfactory Rejuvenating Mass Crack Treatment. The test strip may be conducted as part of the calibration procedure. The test strip may be in a suitable area such as a parking lot or staging area. The contractor may also elect to use the project site for the test strip. If the test strip is placed within the project limits the contractor shall correct any deficiencies before opening to traffic as directed by the Engineer at no additional cost to the Department. The location for the test strip shall be approved by the Engineer prior to placement of the test strip.

**ARKANSAS DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION**

**JOB NO.**

**REJUVENATING MASS CRACK TREATMENT**

**Construction Requirements:**

**(a) General.** The methods employed in performing the work, and all equipment, tools, and machinery used in handling material and executing any part of the work shall be subject to the approval of the Engineer before the work is started and whenever found unsatisfactory shall be changed or improved as required. Equipment, tools, and machinery used must be maintained in a satisfactory condition, and must conform to the requirements provided in Section 403.

The surfaces of all structures shall be protected by some satisfactory method to prevent their being disfigured by the application of asphalt material. Objectionable asphalt discoloration, caused by the Contractor's operations, shall be removed from all roadway and bridge structures at no cost to the Department.

Asphalt material shall not be applied on a surface having excess moisture or when weather conditions are unsuitable. The Contractor shall monitor local weather conditions to avoid placing material on the road ahead of adverse weather that could subsequently damage the material. In the event materials are damaged by adverse weather, they shall be replaced or repaired at no additional cost to the Department.

Special precautions shall be taken to ensure that the equipment is operated in a manner that distributes the asphalt and aggregate evenly and uniformly. Deposits of asphalt and aggregate material upon the road surface in excess of the quantity specified, caused by stopping or starting the distributing machine, overflow, leakage, or other mechanical or human errors, shall be removed.

Prior to performing the actual work, all equipment shall be adjusted and calibrated according to Section 403 and applicable manufacturer's requirements.

The surface section shall be constructed in half widths for each application.

**(b) Preparation of Existing Surface.** Potholes and surface depressions will be repaired by the Department prior to the Rejuvenating Mass Crack Treatment work unless shown otherwise on the plans. Immediately prior to application of the asphalt material, clean and de-grass existing pavements over the full width to be treated and all raised pavement markers shall be removed.

Manholes, valve boxes, drop inlets and other service entrances shall be protected from the asphalt emulsion by a suitable method.

**(c) Sweeping and Cleaning.** Before the asphalt material is applied, the surface shall be thoroughly cleaned and swept with a rotary power broom to remove all dust, dirt, mud, and loose or foreign material. A blower may be used to assist in the cleaning operation. The sweeping and cleaning operations shall be carried only far enough in advance of the application of the asphalt material to ensure that the surface is maintained in the proper condition at the time of application. Clean areas not reached by the power broom or blower by hand brooming or blowing.

**(d) Application of Asphalt Material.** After the surface to be treated has been prepared as specified above, the asphalt material for the surface treatment shall be sprayed uniformly over the surface by means of an approved mechanical pressure distributor,

**ARKANSAS DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION**

**JOB NO.**

**REJUVENATING MASS CRACK TREATMENT**

meeting the requirements of Section 403, shown on the plans and at the designated rate of application as shown on the plans.

The optimum application rate of asphalt material is dependent on the mineral aggregate gradation as well as the condition of the pavement in which the Rejuvenating Mass Crack Treatment is to be applied. The application rate of the asphalt material may be adjusted by the Engineer based on field conditions at the time of construction.

The asphalt material shall be applied at the temperature between 140 - 180°F. The Contractor shall ensure uniformity of distribution at junctions of distributor loads by use of building paper or other approved methods.

After asphalt material is applied and broomed to force material into cracks and voids, no equipment or traffic will be permitted on the surface until the aggregate is applied and rolled.

**(e) Application of Mineral Aggregate.** The mineral aggregate shall not contain excessive free moisture and shall be spread immediately following the application of the asphalt material. Operations shall not proceed or continue when the asphalt material is allowed to chill, set up, dry, or otherwise impair retention of the mineral aggregate. The mineral aggregate shall be spread with a mechanical spreader meeting the requirements of Section 403. The mineral aggregate shall be distributed over the asphalt material and at the rate of application shown in the plans. The use of an approved chip box to distribute the mineral aggregate will be permitted on detour construction and other areas approved by the Engineer where the use of a mechanical spreader is impractical. Spreading shall be accomplished in such manner that the tires of the trucks or aggregate spreader at no time contact the uncovered and freshly applied asphalt material. Portions of the surface not covered by mechanical spreaders shall be hand spotted so that the entire surface will be uniformly covered. Light hand brooming may be necessary to distribute excess aggregate.

**(f) Rolling and Brooming.** A minimum of two pneumatic rollers, along with one rotary power broom shall be used with each aggregate spreader being used. A steel wheel roller will be allowed as a finish roller with approval by the Engineer.

Rolling shall begin immediately behind the spreader. Each surface treatment shall be completely rolled a minimum of three times.

After the final set of asphalt has occurred and no more than 48 hours after application, the surface shall be lightly broomed to remove excess aggregate. Generally, the brooming shall be confined to the cooler hours of the day and shall be conducted so as not to displace embedded material.

**(g) Second and Successive Applications.** If the work involves two or more applications of asphalt material and mineral aggregate, the rates of application for this material will be those specified on the plans or as designated by the Engineer. The method of construction will be the same as for an asphalt surface treatment meeting the requirements of Section 402. If a second seal is to be constructed, the emulsion shall conform to Subsection 403.03(d) or Subsection 403.03(e). Each application shall be placed only after the preceding application has been satisfactorily completed and cured. Further, the asphalt

**ARKANSAS DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION**

**JOB NO.**

**REJUVENATING MASS CRACK TREATMENT**

material shall be firmly set and the aggregate firmly embedded so as not to be displaced by brooming. Before application, the surface shall be thoroughly swept with a rotary power broom so that no dust or loose aggregate is left that might cause a plane of cleavage.

**Traffic Control:**

During the application of the asphalt material and aggregate, and during the rolling operation, traffic will not be allowed on the new surface. When traffic must use the lane adjacent to the lane under construction, the Contractor shall regulate the flow of vehicles past the surfacing operation at a speed not to exceed 25 miles per hour (40 km/h). The Engineer may require the use of a pilot vehicle.

Until the asphalt has set and the cover aggregate is firmly embedded, traffic shall not exceed 25 miles per hour (40 km/h). The vehicle speeds shall be controlled by the use of one or a combination of barricades, flaggers, signs, or pilot vehicles that will minimize the loss of cover aggregate. The method used for speed control shall be approved by the Engineer and will be subject to change or modification should the selected method of control prove unsatisfactory.

The Contractor shall route the aggregate haul trucks to and from the work area so that they will not have to turn on the freshly placed surface treatment.

**Temperature and Seasonal Limitations:**

Asphalt material shall not be applied when the ambient and surface temperature including shaded areas is below 60°F (15°C). In addition, asphalt surface treatments shall not be applied outside the following seasonal limitations:

Traveled Lanes	April 15 to September 30
Shoulders	April 1 to October 31

No deviation from the above limitations will be allowed except by written permission from the Engineer.

**Method of Measurement:**

(a) Mineral aggregate in surface treatments will be measured either by the cubic yard (cubic meter) or by the ton (metric ton).

(b) Rejuvenating Mass Crack will be measured by the gallon (liter).

**Basis of Payment:**

Work completed and accepted and measured as provided above will be paid for as follows:

(a) Mineral aggregate will be paid for at the contract unit price bid per ton (metric ton) or per cubic yard (cubic meter) for Mineral Aggregate in Asphalt Surface Treatment.

In cases where the combined specific gravity of the material used for Mineral Aggregate in Rejuvenating Mass Crack Treatment exceeds 2.80 and the method of measurement is by the ton (metric ton), the quantity of material will be adjusted for payment by multiplying the quantity of the material used by the specific gravity of 2.80 and dividing by the higher specific gravity.

**ARKANSAS DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION**

**JOB NO.**

**REJUVENATING MASS CRACK TREATMENT**

(b) Asphalt material will be paid for at the contract unit price bid per gallon (liter) for Rejuvenating Emulsified Asphalt (CMS-1PC).

The above contract unit price shall be full compensation for surface preparation including the removal of the raised pavement; furnishing, loading, heating, hauling, placing, and applying materials; for cleaning, sweeping, brooming, rolling; and for all labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Mineral Aggregate in Asphalt Surface Treatment (Class ____)	Cubic Yard (Cubic Meter) or Ton (Metric Ton)
Rejuvenating Emulsified Asphalt (CMS-1PC)	Gallon (Liter)

**CRAIGHEAD COUNTY**  
**INVITATION TO BID-Not an Order**

Craighead County Judge's Office  
511 Union St. Suite 119  
Jonesboro, Arkansas 72401

**PURCHASING OFFICE**

**BID NO. 2021-34**

**DATE August 3, 2021**

Sealed bids, subject to the conditions on the attached hereof, and as may be attached hereto, will be received at this office until **2:00 PM August 17, 2021** and then publicly opened, for furnishing the supplies, materials, and/or services as described below.

Bids will be opened **August 17, 2021,**  
**2:00 P.M. Local Time**

**FOB Craighead County, Arkansas**

**BY: Al Haines**  
**Purchasing Director**

Item #	DESCRIPTION
1	The intent of the attached specifications is to describe asphalt sealing, striping, traffic control, and type of materials to use for preserving various County Roads in Craighead County.
2	The successful bidder will furnish Craighead County a signed copy of all delivery receipts for each road or job, and will invoice the County for each job individually.
3	Does bidder meet all specifications? Yes <u>X</u> No <u>    </u> If no, please attach sheets explaining differences.
4	Successful bidder shall maintain bid price throughout the asphalt seal season.
5	Bidder should specify approximate start date if awarded bid. Days <u>Approx. Sept 20<sup>th</sup></u> <u>start date</u>
6	Bidder shall quote price per gallon of asphalt sealer and mineral aggregate laid on roads and each job should be bid separately and should include traffic control and mobilization.
7	Bid must be signed by an authorized representative or bid will be rejected.
8	Bidder should return all pages of this bid package.
9	Bid # 2021-34 must be noted on the outside of bidders envelope.
10	Total cost per job should be shown on <b>Bid Sheet Form</b>

**EXECUTION OF BID**

Date 8-16-2021

We, the undersigned, have read all the requirements set forth in this bid proposal including specifications, conditions, and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices instructions, stated.

Arkansas use Tax Register No.

Bidder Sugg Construction Inc. Address P.O. Box 17164 Jonesboro, AR 72403  
By Burt Sugg City Jonesboro Title Vice President  
(Person Authorized to Sign Bids)

**UNSIGNED BIDS WILL BE REJECTED**

**BIDS ARE SUBJECT TO REJECTION UNLESS SUBMITTED ON THIS FORM**

**NOTICE TO BIDDERS, SEE REVERSE SIDE OR ATTACHMENTS FOR INSTRUCTIONS AND CONDITIONS.**



CRAIGHEAD COUNTY  
JONESBORO, ARKANSAS

CONDITIONS OF BIDDING

Compliance with the following conditions is necessary for consideration of this bid.

1 Signature-This bid must be signed with the firm name and by an authorized officer, employee or agent.

2 Sales Tax-Is to be shown in the bid price, but is to be listed as separate line item.

The County is not exempt from Arkansas State Sales Tax. Contractors are to include all costs into the bid price, including applicable taxes.

3 Freight and other delivery charges-to destination at designated County job site in the County must be included in bid. Charges may not be added after the bid is opened.

4 Discounts-Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise County will deduct allowed discount when payment is made.

5 Firm Price-All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the County or bidder

6 Identical Bids-In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders, or split in any proportion between the said two or more bidders at discretion of the County.

7 Clean up-Complete cleanup and proper disposal of any and all job related items is considered to be a part of any contract let by Craighead County.

8 Ambiguity in bid-Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the County

9 Construction  
A. When requested, the Contractor is to supply the County with evidence of having and maintaining proper and specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability, and Property Damage. All premiums and cost shall be paid by Contractor. In no way will the County be responsible in case of accident.

B. A Performance Bond equaling the total amount of any bid exceeding \$20,000 must be provided for erection of any public building, public structure, or public improvement(Pursuant to Arkansas Code 18-44-503.)

10 The County reserves the right to reject any and all bids, accept in whole or in part, to waive informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the County may accept the bid for the lesser amount whether reflected by extension or by the correct multiple of the unit price.

INSTRUCTIONS TO BIDDERS

(Please read carefully)

1 Submit bid on bid form attached.

2 Address all bids to: Purchasing Director, Craighead County Judge's Office, 511 Union St., Suite 119, Jonesboro, Arkansas 72401 and make certain to indicate identifying bid number on the outside of bid envelope.

3 DO NOT include Federal Excise Tax in bid. County will furnish exemption certificate.

4 Bids received after stated time will not be considered.

5 Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.

6 Guarantees and warranties should be attached as a part of the bid, as they may be a consideration in awarding contract.

7 Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.

8 Additional information may be obtained from the Purchasing Department.

9 **Point of contact will be Marvin Day at 243-6453**

COUNTY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS  
AND TO ACCEPT BID WITH OR WITHOUT TRADE-IN, AND REJECT ANY AND ALL BIDS.

**SPECIFICATIONS**

- 1 Scope: As part of the ongoing asphalt preservation on various county roads, We are requesting bids for sealing various county roads according to the attached specifications.  
The work will be done in accordance with the current ARDOT specifications for sealing asphalt roads.
- 2 Each job listed below must be bid separately.
- 3 See attached specifications indicating road numbers, locations, and job numbers for sealing, striping traffic control, and fog sealing various roads in Craighead County.
- 4 Craighead County stipulates that the successful bidder will do other sealing jobs at the bid price should other monies become available to Craighead County.
- 5 Craighead County reserves the right to accept, reject, in whole or in part, to waive informalities in bids received, or accept bids with variations.
- 6 Traffic control shall be responsibility of contractor. Any damages to property, vehicles, persons, or any other incidents or accidents shall be the liability of the contractor.
- 7 Mobilization costs should be listed as a separate item.
- 8 All applications of product of sealing, striping, traffic control, and related jobs in this bid package shall be according to attached specifications.
- 9 Signage shall be placed at all road intersections according to the Traffic Control Devices specifications as noted with the State Highway department road numbers for each job section.
- 10 There are no seasonal limitations for this project. The county will work with contractor to determine if the job need to be continued into next spring.

# Bid Sheet Form

Job number of County Roads to be sealed and striped

	County Road		Est miles	Item	Quantity	Unit Price	Extension
Job 1	CR 318 Section 1	Asphalt Preservation	4.92	Mineral Aggregate	824.8 tons	110	90,728
				CMS-PC	19795.3 gallons	6	118,771.8
				Fog Seal	6598.4 gallons	4	26,393.6
				Pavement markings yellow(4")	51956 feet	.13	6754.28
				Pavement markings white(4")	51956 feet	.13	6754.28
				Pavement markings white(8")	0 feet		
Job 2	CR 780 Section 2	Asphalt Preservation	5.74	Mineral Aggregate	886.5 tons	110	97,515
				CMS-PC	21276.6 gallons	6	127,659.6
				Fog Seal	7092.2	4	28,368.8
				Pavement markings yellow(4")	54023.0 feet	.13	7022.99
				Pavement markings white(4")	60614.0 feet	.13	7879.82
				Pavement markings white(8")	40 feet	5	200
Job 3	CR 760 Section 3	Asphalt Preservation	0.98	Mineral Aggregate	150.9 tons	110	16,599
				CMS-PC	3621.8 gallons	6	21,730.8
				Fog Seal	1207.3 gallons	4	4829.2
				Pavement markings yellow(4")	10348.0 feet	.13	1345.24
				Pavement markings white(4")	10348.0 feet	.13	1345.24
				Pavement markings white(8")	0 feet		
Job 4	CR 505,507,510 Section 4	Asphalt Preservation	4.42	Mineral Aggregate	572.0 tons	110	62,920
				CMS-PC	13728.0 gallons	6	82,368
				Fog Seal	4576.0 gallons	4	18,304
				Pavement markings yellow(4")	12252.0 feet	.13	1592.76
				Pavement markings white(4")	41184.0 feet	.13	5353.92
				Pavement markings white(8")	0 feet		
Job 5	CR 476 Section 5	Asphalt Preservation	1.76	Mineral Aggregate	280.9 tons	110	30,899
				CMS-PC	6741.5 gallons	6	40,449
				Fog Seal	2247.2 gallons	4	8988.8
				Pavement markings yellow(4")	18386.0 feet	.13	2390.18
				Pavement markings white(4")	0 feet		
				Pavement markings white(8")	0 feet		
	Traffic Control/Temporary Signage				800sf	3.50	2800
	Mobilization Cost(not to exceed 5%)				1	58,000	58,000
				Bid according to Attached Specifications:		Total Bid	\$ 877,963.31
				Surfacing Quantities			
				Reflectorized Paint Pavement Marking			
				Traffic Control Devices			

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

### KNOW ALL MEN BY THESE PRESENTS, that:

1. Employers Mutual Casualty Company, an Iowa Corporation
2. EMCASCO Insurance Company, an Iowa Corporation
3. Union Insurance Company of Providence, an Iowa Corporation

4. Illinois EMCASCO Insurance Company, an Iowa Corporation
5. Dakota Fire Insurance Company, a North Dakota Corporation
6. EMC Property & Casualty Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:

BENSON A CASHION, JUDY SCHOGGEN, MATTHEW K. CASHION JR, MICHAEL G. DORNBLASER, LEE W. JACKSON, JULIE MARTIN, DANETTE WARD, LOLA BURTON, HOLLY CLEVENGER, JOHN A. DAVIE

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute the Surety Bond:

### Any and All Bonds

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

The authority hereby granted shall expire October 10th, 2022, unless sooner revoked.

## AUTHORITY FOR POWER OF ATTORNEY

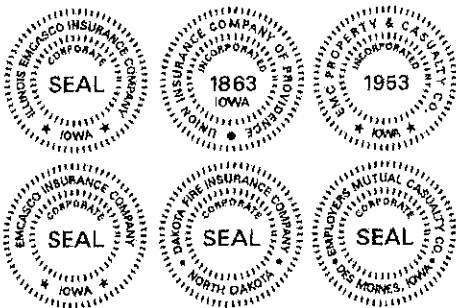
This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at the first regularly scheduled meeting of each company duly called and held in 1999:

**RESOLVED:** The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

**IN WITNESS THEREOF**, the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this 30th day of March, 2020.

*Scott R. Jean*  
Scott R. Jean, President & CEO  
of Company 1; Chairman, President  
& CEO of Companies 2, 3, 4, 5 & 6

*Todd Strother*  
Todd Strother, Executive Vice President  
Chief Legal Officer & Secretary of  
Companies 1, 2, 3, 4, 5 & 6



On this 30th day of March, 2020 before me a Notary Public in and for the State of Iowa, personally appeared Scott R. Jean and Todd Strother, who, being by me duly sworn, did say that they are, and are known to me to be the CEO, Chairman, President, Executive Vice President, Chief Legal Officer and/or Secretary, respectively, of each of the Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Scott R. Jean and Todd Strother, as such officers, acknowledged the execution of said instrument to be their voluntary act and deed, and the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2022.

*Kathy Loveridge*  
Notary Public in and for the State of Iowa

### CERTIFICATE

I, James D. Clough, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on 30th day of March, 2020, are true and correct and are still in full force and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 17th day of August, 2021.

*J D Clough*  
Vice President

**BID BOND**

Conforms with The American Institute of  
Architects, A.I.A. Document No. A-310

KNOW ALL BY THESE PRESENTS, That we, Sugg Construction, Inc.

\_\_\_\_\_ as Principal, hereinafter called the Principal,  
and the Employers Mutual Casualty Company

of P.O. Box 712, Des Moines, Iowa, a corporation duly organized under  
the laws of the State of Iowa, as Surety, hereinafter called the Surety, are held and firmly bound unto

Craighead County, Arkansas as Obligee, hereinafter called the Obligee,  
in the sum of Five Percent of Amount of Bid

Dollars (\$ 5% of Bid ), for the payment of which sum well and truly to be made, the said Principal and the said  
Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for Bid No. 2021-34 - Asphalt Sealing and Striping for Various County Roads,  
Craighead County, Arkansas

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the  
Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract  
Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and  
material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond  
or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said  
bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said  
bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 17th day of August, 2021

Jonathan Phillips

Witness

Sugg Construction, Inc.

(Seal)

Principal

Title

Judy Schaggen

Witness

Employers Mutual Casualty Company

By

Holly Clevenger

Attorney-in-Fact

