

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**



**SUBSURFACE INVESTIGATION**

**STATE JOB NO.** 020543

**FEDERAL AID PROJECT NO.** NHPP-0002(31)

**CO. RD. 411 – HWY. 425 (EAST OF CROSSETT) (S)**

**STATE HIGHWAY** 82      **SECTION** 8

**IN** ASHLEY      **COUNTY**

**LETTING OF** NOVEMBER 2, 2016

The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

October 7, 2013

**TO:** Mr. Carl Fuselier, Bridge Engineer

**SUBJECT:** Job No. 020534  
Co. Rd. 411 – Hwy. 425 (East of Crossett) (S)  
Route 82, Section 8  
Ashley County

Transmitted herewith is a brief summary of the geology and site conditions, D50 analysis test results, along with the logs of the rotary wash borings conducted in the vicinity of the bridges and approaches of the above referenced job. The samples obtained by the Standard Penetration Tests were brought to the laboratory and visually classified by experienced lab personnel to verify the field identification.

It is anticipated that the bridges over Hank's Creek, Middle Fork of the West Creek, and East Fork of the West Creek will be founded on concrete pile trestle bents.

Embankment analysis was performed independently for all three bridges, utilizing 2H:1V bridge end slopes. Seismic analysis included a coefficient of horizontal acceleration of 0.159 as provided by Bridge Design. This configuration provides for a satisfactory Factor of Safety for seismic and static conditions for all three bridges.



Michael C. Benson  
Materials Engineer

MCB:rpt

Attachment

cc: State Construction Engineer – Master File Copy  
District 2 Engineer  
G. C. File

## **GEOLOGY AND SITE CONDITIONS**

**Job No. 020534**

**Co. Rd. 411 - Hwy. 425 (East of Crossett) (S)**

**Ashley County**

**Route 82 Section 8**

### **Site Conditions**

There are three bridge structures associated with this job. **Bridge 1**, the westernmost bridge, is a three span bridge over the Middle Fork of the West Creek. The existing bridge is constructed of concrete deck, concrete octagonal trestle pilings with concrete caps, and concrete end walls. The guardrail is composed of steel leading up to the bridge and aluminum on the bridge. Rock riprap and concrete has been place on the abutment slopes. Overhead power lines parallel the bridge on the south. There is a buried telecom line that also parallels the south side of the roadway. County Road 255 intersects Hwy 82 to the west of the bridge on the south side of the roadway. The stream flows to the northwest. However, water in the channel appeared stagnate at the time of the subsurface investigation. Vegetation adjacent to the bridge consists of grasses. The area north and south of the bridge is moderately to heavily wooded.

**Bridge 2** is a three span bridge over the East Fork of the West Creek. The existing bridge is constructed of concrete deck, concrete octagonal trestle pilings with concrete caps, and concrete end walls. The guardrail is composed of steel leading up to the bridge and aluminum on the bridge. Rock riprap and concrete has been place on the abutment slopes. Overhead power lines parallel the bridge on the south. There is a buried telecom line that also parallels the south side of the roadway. The stream flows to the north. However, water in the channel appeared stagnate at the time of the subsurface investigation. Vegetation adjacent to the bridge consists of grasses. The area south of the bridge is moderately to heavily wooded; the area northeast of the bridge is moderately to heavily wooded; and, the area northwest of the bridge is wooded adjacent to the roadway and the channel with some pastureland beyond. A private residence is located a short distance northeast.

**Bridge 3** is a five span bridge over Hank's Creek. The existing bridge is constructed of concrete deck, concrete octagonal trestle pilings with concrete caps, and concrete end walls. The guardrail is composed of steel leading up to the bridge and aluminum on the bridge. Overhead power lines parallel the bridge on the south. There is a buried telecom line that also parallels the south side of the roadway. The stream flows to the north. However, water in the channel appeared stagnate at the time of the subsurface investigation. Vegetation adjacent to the bridge consists of grasses. The area north and south of the bridge is moderately wooded.

### **Site Geology**

The job site is located on alluvial deposits. Alluvial deposits at the job site are composed of sands and clays. The alluvial deposits at this location overlie deposits of the Prairie Terrace. The Prairie Terrace deposits were encountered in five of the six borings at a depth between 21.5 and 25 feet below ground level. However, one boring encountered the terrace deposits between 16.5 and 20 feet below ground level. The Prairie Terrace is composed of valley train deposits. A valley train is a gently sloping plain underlain by glacial outwash and confined by valley walls. These deposits are underlain by Paleogene age sediment.

The Paleogene deposits at the job site are composed primarily of unconsolidated, silty and fine sandy clays with some lignite. In borings 1 through 4, Paleogene deposits were encountered at depths ranging from below 81.5 feet to above 100 feet below ground level. The Paleogene deposits were not encountered in borings 5 and 6.

### Subsurface Conditions

Based on the results of the borings, the subsurface stratigraphy may be generalized as follows:

- 0 to 20 Feet: Consists of moist to wet, soft to very stiff, gray **clay with some organic matter** to **clay with sand** to moist, medium dense, brown and gray **silt with sand**.
- 20 to 35 Feet: Varies from moist to wet, stiff to very stiff, gray **clay with some organic matter** to medium dense, reddish brown silt with sand to medium dense to dense, brown sand.
- 35 to 85 Feet: Consists of wet, medium dense to very dense, brown **sand to sand with silt**. Some samples in this zone contained a trace to some gravel.
- 85 to 121.5 Feet: Varies from wet, loose to very dense, gray sand to sand with gravel to moist, dense, gray sandy silt to moist, stiff to hard, gray, sandy, silty clay. Most of the Paleogene deposits had some amount of lignite. A cemented layer, approximately one foot thick, was encountered in one boring in this zone.

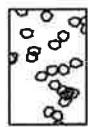
**D<sub>50</sub> AGGREGATE ANALYSIS  
FOR SCOUR CALCULATIONS**

Job No. 020534					
Creek Name	Station	Sample Type	Location	Depth (FT)	Aggregate Size (D50) (IN)
Middle Fork of West Creek	208+40	Surface Creek Bank	C.L. Construction	N/A	Less Than 0.0029
East Fork of West Creek	261+21	Surface Creek Bank	C.L. Construction	N/A	Less Than 0.0029
Hank's Creek	378+88	Surface Creek Bank	C.L. Construction	N/A	Less Than 0.0029

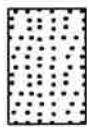
# LEGEND

## SOIL TYPES

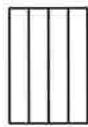
( SHOWN IN SYMBOL COLUMN)  
( PREDOMINANT TYPE SHOWN HEAVY )



GRAVEL



SAND



SILT



CLAY

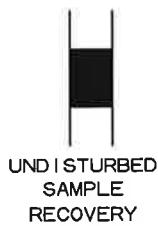


ORGANIC  
MATTER

## SAMPLER TYPES

( SHOWN IN SAMPLE COLUMN )

### SHELBY TUBE



UNDISTURBED  
SAMPLE  
RECOVERY



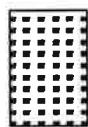
DISTURBED  
SAMPLE  
RECOVERY



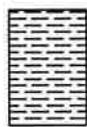
NO  
RECOVERY

## ROCK TYPES

( SHOWN IN SYMBOL COLUMN )



SANDSTONE



SHALE  
or  
SILTSTONE



LIMESTONE  
or  
DOLOMITE

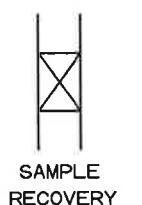


ALTERNATING  
LAYERS OF  
SHALE and  
SANDSTONE

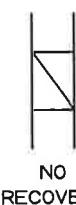


OTHER

### SPLIT SPOON



SAMPLE  
RECOVERY



NO  
RECOVERY

### ROCK CORING



% RECOVERY  
INDICATED ON LOGS

## TERMS DESCRIBING CONSISTENCY OR CONDITION

GRANULAR SOIL		CLAY		CLAY-SHALE		SHALE	
'N' Value	Density	'N' Value	Consistency	'N' Value	Consistency	'N' Value	Consistency
0-4	Very Loose	0-1	Very Soft	0-1	Very Soft	31-60	Soft
5-10	Loose	2-4	Soft	2-4	Soft	Over 60	
11-30	Medium Dense	5-8	Medium Stiff	5-8	Medium Stiff	More than 2'	
31-50	Dense	9-15	Stiff	9-15	Stiff	Penetration	
Over 50	Very Dense	16-30	Very Stiff	16-30	Very Stiff	in 60 Blows: Medium Hard	
		31-60	Hard	31-60	Hard	Less than 2'	
		Over 60	Very Hard	Over 60	Very Hard	Penetration	
						in 60 Blows: Hard	

1. Ground water elevations indicated on boring logs represent ground water elevations at date or time shown on boring log. Absence of water surface implies that no ground water data is available but does not necessarily mean that ground water will not be encountered at locations or within the vertical reaches of these borings.
2. Borings represent subsurface conditions at their respective locations for their respective depths. Variations in conditions between or adjacent to boring locations may be encountered.
3. Terms used for describing soils according to their texture or grain size distribution are in accordance with the Unified Soil Classification System.

Standard Penetration Test – Driving a 2.0" O.D., 1-3/8" I.D. sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. It is customary to drive the spoon 6.0 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and performing the test are recorded for each 6 inches of penetration on the drill log. The field "N" Value ( $N_f$ ) can be obtained by adding the bottom two numbers for example:

$\frac{6}{8-9} \Rightarrow 8+9 = 17 \text{ blows / ft}$ . The "N" Value corrected to 60% efficiency ( $N_{60}$ ) can be obtained by multiplying  $N_f$  by the hammer correction factor published on the boring log.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

**BORING NO. 1  
PAGE 1 OF 3**

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 208+06  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: September 17-18, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME  
Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT. <th>S Y M B O L Ft.</th> <th>S A M P L E S</th> <th>DESCRIPTION OF MATERIAL</th> <th>SOIL GROUP</th> <th>PLASTIC LIMIT</th> <th>% MOIST.</th> <th>LIQUID LIMIT</th> <th>DRY WEIGHT</th> <th>LBS PER CU.FT.</th> <th>NO. OF BLOWS</th> <th>% S C R PER 6-IN.</th> <th>% R Q D</th>	S Y M B O L Ft.	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	% S C R PER 6-IN.	% R Q D
			SURFACE ELEVATION: 146.2									
5			Wet, Soft, Gray Clay with some Organic Matter							0 1-3		
10			Moist, Medium Stiff, Gray Clay with some Organic Matter							1 2-3		
15			Moist, Very Stiff, Gray and Brown Clay with some Organic Matter							6 9-9		
20			Moist, Very Stiff, Light Gray Clay with some Organic Matter							3 8-8		
25										7 11-13		
30										7 9-13		
35			Wet, Medium Dense, Brown Sand									

REMARKS: Hollow stem augers were utilized to a depth of 8.7'.

ARKANSAS HWY. & TRANS. DEPARTMENT MATERIALS DIVISION - GEOTECHNICAL SEC.					BORING NO. 1 PAGE 2 OF 3									
JOB NO. 020534 Ashley County JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett) STATION: U.S. 82 - LOCATION: 3' Left of Center Line of Construction LOGGED BY: Paul Christenberry					DATE: September 17-18, 2013 TYPE OF DRILLING: Rotary Wash EQUIPMENT: CME 750 w/ CME Automatic Hammer HAMMER CORRECTION FACTOR: 1.23									
COMPLETION DEPTH: 101.5														
D E P T H FT.	S Y M B O L FT.	S A M P L E S	DESCRIPTION OF MATERIAL			SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% SCCR	% RQD
			SURFACE ELEVATION: 146.2											
40												7	12-15	
45			Wet, Dense, Brown Sand									9	14-18	
50												6	13-19	
55			Wet, Medium Dense, Brown Sand									7	10-11	
60			Wet, Dense, Brown Sand									7	14-30	
65			Wet, Medium Dense, Brown Sand with Trace of Cemented Sand									15	15-14	
70			Wet, Very Dense, Brown and Gray Sand with Trace of Gravel									16	27-26	
REMARKS: Hollow stem augers were utilized to a depth of 8.7'.														

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 1  
PAGE 3 OF 3

JOB NO. 020534 Ashley County  
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			SURFACE ELEVATION: 146.2									
75			Wet, Very Dense, Gray Sand							18 26-37		
80			Wet, Dense, Gray Sand							11 15-26		
85			Wet, Very Dense, Gray Sand							10 20-38		
90			Moist, Hard, Gray and Brown Clay with Lignite							23 43-57		
95			Moist, Hard, Gray Sandy, Silty Clay with Trace of Lignite							11 16-21		
100			Moist, Hard, Gray Sandy, Silty Clay							12 20-24		
105			Boring Terminated							9 15-17		

REMARKS: Hollow stem augers were utilized to a depth of 8.7'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 2  
PAGE 1 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 209+00  
LOCATION: 6' Left of Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: September 16-17, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L Ft.	S A M P P E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 146.1									
5			Wet, Soft, Gray Clay with some Organic Matter	CL	12	29				1 — 2-2		
10			Moist, Stiff, Gray Clay with some Organic Matter	CL	15	31				4 — 6-7		
15			Moist, Stiff, Light Brown Silty Clay with some Sand and Organic Matter	CL-ML	4	22				10 — 9-5		
20			Moist, Stiff, Light Brown Clay with Sand	-						4 — 5-10		
25			Moist, Stiff, Light Gray Clay with Trace of Sand and Iron Nodules	CH	37	51						
30			Wet, Medium Dense, Brown Sand with Silt	SW-SM						6 — 9-10		
35				-						7 — 10-11		

REMARKS: Hollow stem augers were utilized to a depth of 8.9'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 2  
PAGE 2 OF 3

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EQUIPMENT: CME 750 w/ CME  
Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 146.1									
40			Wet, Medium Dense, Brown Sand	SW	NP					4 8-12		
45			Wet, Dense, Brown Sand with Silt	SW-SM	NP					13 20-17		
50			Wet, Medium Dense, Brown Silty Sand with Trace of Gravel	SM	NP					4 5-6		
55			Wet, Medium Dense, Brown Sand	SW	NP					8 13-16		
60			Wet, Dense, Brown Sand with Silt	SW-SM	NP					13 15-18		
65			Wet, Medium Dense, Brown Sand with Silt	SW-SM	NP					7 8-10		
70			Wet, Dense, Gray Sand	SW	NP					11 19-22		

REMARKS: Hollow stem augers were utilized to a depth of 8.9'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 2  
PAGE 3 OF 3

JOB NO. 020534 Ashley County  
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HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% S C R	% R Q D
			SURFACE ELEVATION: 146.1									
75			Wet, Very Dense, Gray Sand	SW	NP					11 18-34		
80			Wet, Very Dense, Gray Sand with Silt	SW-SM	NP					28 45-50		
85			Wet, Dense, Gray Sand with Silt	SW-SM	NP					13 15-24		
90			Moist, Hard, Gray and Brown Clay with Silt Partings and Trace of Lignite	CL	17	42				11 16-20		
95			Moist, Hard, Gray and Brown Clay with Lignite and Silt Partings	CL	20	37				9 14-19		
100			Moist, Hard, Gray Clay with Lignite and Silt Partings	CL	17	38				10 15-22		
105			Moist, Hard, Gray Clay with Sand	CL	8	29				9 15-24		
			Boring Terminated									

REMARKS: Hollow stem augers were utilized to a depth of 8.9'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 3  
PAGE 1 OF 4

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 260+86  
LOCATION: 5' Left of Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: September 9-11, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME  
Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 121.5

D E P T H FT. L	S Y M B O L S	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	Dry Weight	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 146.2									
5			Moist, Soft, Brown Clay with some Organic Matter							2	2-2	
10			Moist, Soft, Brown and Gray Clay with some Organic Matter							2	1-3	
15			Moist, Medium Stiff, Reddish Brown and Gray Clay with Sand and some Iron Nodules							2	3-4	
20			Moist, Stiff, Gray and Brown Clay with some Sand and Iron Nodules							3	3-6	
25			Wet, Medium Dense, Reddish Brown and Gray Sand							6	9-11	
30										5	6-9	
35												

REMARKS: Hollow stem augers were utilized to a depth of 8.6'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 3

PAGE 2 OF 4

JOB NO. 020534 Ashley County  
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U.S. 82 -  
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Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 121.5

D E P T H  FT.	S Y M B O L  S A M P L E S	DESCRIPTION OF MATERIAL  SURFACE ELEVATION: 146.2	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% S C R	% R Q D
40									11 15-15		
45									3 7-7		
50									3 6-9		
55									5 6-10		
60									11 18-20		
65									11 19-29		
70									2 6-11		
Wet, Medium Dense, Brown Sand											
Wet, Dense, Brown Sand											

REMARKS: Hollow stem augers were utilized to a depth of 8.6'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
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BORING NO. 3  
PAGE 3 OF 4

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COMPLETION DEPTH: 121.5

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			SURFACE ELEVATION: 146.2									
75			Wet, Medium Dense, Brown Sand							12 13-17		
80			Wet, Dense, Brown Sand with Trace of Gravel							10 14-17		
85			Wet, Dense, Brown Sand							12 15-21		
90			Gravel							10 13-20		
95			Wet, Medium Dense, Brown Sand with Trace of Gravel							15 16-11		
100			Wet, Loose, Brown Sand with Gravel							8 5-5		
105			Moist, Very Dense, Dark Gray Clayey, Silty Sand with Trace of Lignite							9 17-37		

REMARKS: Hollow stem augers were utilized to a depth of 8.6'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 3

PAGE 4 OF 4

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			SURFACE ELEVATION: 146.2									
110			Wet, Very Dense, Dark Gray Silty Sand with Trace of Lignite							16 22-30		
115			Moist, Very Dense, Dark Gray Clayey, Silty Sand with Trace of Lignite							10 32-38		
120			Moist, Hard, Dark Gray Clay with Silt and Sand Partings							11 18-23		
			Moist, Hard, Dark Brown Clay with Trace of Lignite							12 16-22		
			Boring Terminated									
125												
130												
135												
140												

REMARKS: Hollow stem augers were utilized to a depth of 8.6'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

**BORING NO. 4  
PAGE 1 OF 3**

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 261+75  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Troy Frazier

DATE: September 11-12, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME  
Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L S	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 146.5									
5			Dry, Very Stiff, Reddish Brown Clay with Sand	CL	14		25			6 10-9		
10				-								
10				CL-ML	17		22			3 3-5		
15			Wet, Medium Stiff, Gray and Brown Silty Clay	-								
15				ML							5 8-7	
20			Moist, Medium Dense, Brown and Gray Silt with Sand	-								
20				CL	10		32			3 4-5		
25			Moist, Stiff, Gray and Brown Clay with Sand and Iron Nodules	-								
25				CL-ML	14		20			3 8-10		
30			Moist, Very Stiff, Brown Silty Clay	-								
30				NP								
35			Wet, Medium Dense, Reddish Brown Silt with Sand	ML						4 4-7		
35				-								

REMARKS: Hollow stem augers were utilized to a depth of 13.8'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 4  
PAGE 2 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 261+75  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Troy Frazier

DATE: September 11-12, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% S C R	% R Q D
			SURFACE ELEVATION: 146.5									
40			Wet, Medium Dense, Brown Sand with Silt	SW-SM	NP					6 8-13		
45				-								
50			Wet, Medium Dense, Brown Sand	SW-SM	NP					7 8-13		
55				-								
60			Wet, Dense, Brown Sand with Silt	SW	NP					7 9-12		
65				-								
70			Wet, Medium Dense, Brown Sand	SW	NP					8 11-14		
				-								
				SW-SM	NP					12 23-24		
				-								
				SW	NP					7 12-16		
				-								
				SW-SM	NP					13 16-18		
				-								

REMARKS: Hollow stem augers were utilized to a depth of 13.8'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 4  
PAGE 3 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 261+75  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Troy Frazier

DATE: September 11-12, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME  
Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT. <th>S Y M B O L Ft.<th>S A M P L E S</th><th>DESCRIPTION OF MATERIAL</th><th>SOIL GROUP</th><th>PLASTIC LIMIT</th><th>% MOIST.</th><th>Liquid Limit</th><th>Dry Weight</th><th>LBS PER CU.FT.</th><th>NO. OF BLOWS</th><th>% S C R</th><th>% R Q D</th></th>	S Y M B O L Ft. <th>S A M P L E S</th> <th>DESCRIPTION OF MATERIAL</th> <th>SOIL GROUP</th> <th>PLASTIC LIMIT</th> <th>% MOIST.</th> <th>Liquid Limit</th> <th>Dry Weight</th> <th>LBS PER CU.FT.</th> <th>NO. OF BLOWS</th> <th>% S C R</th> <th>% R Q D</th>	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	Dry Weight	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 146.5									
75			Wet, Dense, Brown Sand with Silt	SW-SM	NP					12 20-24		
80			Wet, Very Dense, Brown Sand with Silt	SW-SM	NP					12 23-34		
85			Wet, Dense, Brown Sand with Silt and Trace of Gravel	SW-SM	NP					18 23-14		
90			Wet, Medium Dense, Brown Sand	SW	NP					7 9-16		
95			Wet, Very Dense, Brown Sand with Silt and Trace of Lignite	SW-SM	NP					11 23-33		
100			Wet, Very Dense, Brown Sand with Gravel and Trace of Lignite	-	NP					14 25-29		
105			Moist, Very Dense, Dark Gray Silty Sand	SM								
			Hard, Brown and Gray Cemented Sand	-								
			Moist, Dense, Gray Sandy Silt	ML						12 20-27		
			Boring Terminated									

REMARKS: Hollow stem augers were utilized to a depth of 13.8'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 5  
PAGE 1 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 377+53  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: August 28, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 75 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.37

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L Ft.	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	Dry Weight	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 136.5									
5		X	Moist, Loose, Brown and Gray Silt with some Organic Matter	ML	NP					3		
10		X	Moist, Medium Stiff, Light Brown and Gray Clay with some Organic Matter	CL	19	28				2	3-3	
15		X	Moist, Stiff, Light Brown and Gray Clay with Sand	CL	15	23				4	5-7	
20		X	Moist, Dense, Light Gray Clayey Sand	SC	NP					11	18-19	
25		X	Wet, Medium Dense, Brown Silty Sand	SM	NP					9	8-9	
30		X	Wet, Medium Dense, Light Gray and Brown Sand with Silt	SW-SM	NP					4	5-6	
35												

REMARKS: Hollow stem augers were utilized to a depth of 9.2'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 5

PAGE 2 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 377+53  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: August 28, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 75 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.37

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L Ft.	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% S C R	% R Q D
			SURFACE ELEVATION: 136.5									
40			Wet, Medium Dense, Light Gray and Brown Sand with Silt and Trace of Organic Matter	SW-SM	NP					4 5-6		
45			Wet, Medium Dense, Brown Sand with Silt	SW-SM	NP					6 7-7		
50				SW-SM	NP					4 6-8		
55			Wet, Medium Dense, Light Brown Sand with Silt	SW-SM	NP					5 6-7		
60				SW-SM	NP					5 6-9		
65			Wet, Dense, Brown Sand with Silt	SW-SM	NP					8 18-24		
70			Wet, Medium Dense, Brown Sand	SW	NP					8 11-13		

REMARKS: Hollow stem augers were utilized to a depth of 9.2'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 5  
PAGE 3 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 377+53  
LOCATION: 3' Left of Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: August 28, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 75 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.37

COMPLETION DEPTH: 101.5

D E P T H FT. <th>S Y M B O L Ft.</th> <th>S A M P L E S</th> <th>DESCRIPTION OF MATERIAL</th> <th>SOIL GROUP</th> <th>PLASTIC LIMIT</th> <th>% MOIST.</th> <th>Liquid Limit</th> <th>DRY WEIGHT</th> <th>LBS PER CU.FT.</th> <th>NO. OF BLOWS PER 6-IN.</th> <th>% S C R</th> <th>% R Q D</th>	S Y M B O L Ft.	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% S C R	% R Q D
			SURFACE ELEVATION: 136.5									
75			Wet, Medium Dense, Brown Sand with Silt and some Gravel	SW-SM	NP	-				11 12-15		
75	b		Gravel	SW-SM	NP	-				11 17-24		
80			Wet, Dense, Brown Sand with Silt and Trace of Gravel	SW-SM	NP	-				12 16-28		
85			Wet, Dense, Brown Sand with Silt	SW-SM	NP	-				11 16-21		
90			Wet, Dense, Brown Sand	SW	NP	-				17 22-27		
95			Wet, Dense, Brown Sand with Silt and some Gravel	SW-SM	NP	-				13 20-16		
100			Wet, Dense, Brown and Gray Sand with Gravel	SW	NP	-				12 12-23		
105			Wet, Dense, Brown and Gray Sand with some Gravel	SW								
			Boring Terminated									

REMARKS: Hollow stem augers were utilized to a depth of 9.2'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

**BORING NO. 6  
PAGE 1 OF 3**

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 379+06  
LOCATION: Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: Aug. 26 & Sept. 4, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME  
Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT. D E P T H FT.	S Y M B O L S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
		SURFACE ELEVATION: 136.8									
5		Moist, Soft, Reddish Brown and Gray Clay with some Organic Matter							1 2-2		
10		Moist, Soft, Reddish Brown Clay with some Organic Matter							2 2-2		
15		Moist, Very Stiff, Light Gray Clay							6 8-8		
20		Moist, Stiff, Reddish Brown and Light Gray Clay							3 5-5		
25		Wet, Medium Dense, Reddish Brown Sand							12 13-11		
30									4 5-6		
35											

REMARKS: Hollow stem augers were utilized to a depth of 9.2'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

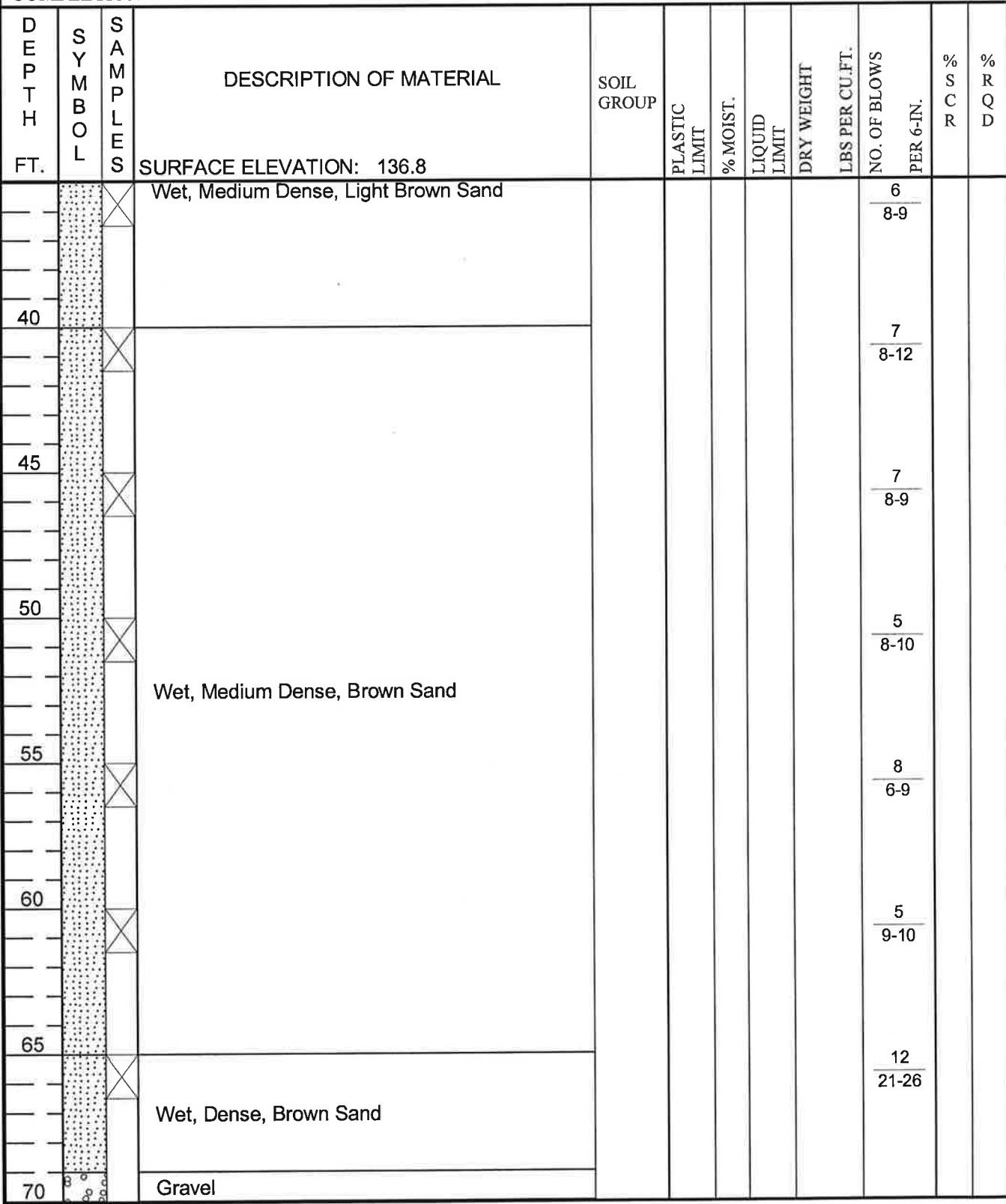
BORING NO. 6

PAGE 2 OF 3

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 379+06  
LOCATION: Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: Aug. 26 & Sept. 4, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5



REMARKS: Hollow stem augers were utilized to a depth of 9.2'.

**ARKANSAS HWY. & TRANS. DEPARTMENT  
MATERIALS DIVISION - GEOTECHNICAL SEC.**

**BORING NO. 6  
PAGE 3 OF 3**

JOB NO. 020534 Ashley County  
JOB NAME: Co. Rd. 411 - Hwy. 425 (East of Crossett)  
U.S. 82 -  
STATION: 379+06  
LOCATION: Center Line of Construction  
LOGGED BY: Paul Christenberry

DATE: Aug. 26 & Sept. 4, 2013  
TYPE OF DRILLING: Rotary Wash  
EQUIPMENT: CME 750 w/ CME Automatic Hammer  
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 101.5

D E P T H FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	Liquid Limit	Dry Weight	LBS PER CU.FT.	NO. OF BLOWS	% S C R	% R Q D
			SURFACE ELEVATION: 136.8									
75			Wet, Dense, Brown Sand with Trace of Gravel							13 19-25		
80			Wet, Very Dense, Brown Sand							11 23-36		
85			Wet, Very Dense, Brown Sand with some Gravel							18 26-32		
90			Wet, Dense, Brown Sand with some Gravel							13 16-19		
95			Wet, Dense, Brown and Gray Sand with some Gravel							17 21-28		
100			Wet, Dense, Gray Sand with Gravel							13 19-29		
105			Boring Terminated							12 18-17		

REMARKS: Hollow stem augers were utilized to a depth of 9.2'.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

August 12, 2013

**TO:** Mr. Trinity Smith, Engineer of Roadway Design

**SUBJECT:** Job No. 020534  
Co. Rd. 411 – Hwy. 425 (East of Crossett) (S)  
Route 82 Section 8  
Ashley County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of widening approximately 6.1 miles of Highway 82 from two lanes to five lanes. Samples were obtained in the existing travel lanes, shoulders and ditch line. Locations were measured from centerline of construction and should be noted as such on the logs.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of low to moderately plastic sandy clay. Based on currently available cross-sections, the construction grade line closely matches that of the existing roadway. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. No slide areas were observed within the project limits.

The maximum embankment height is approximately 9 feet. The proposed widening will encroach into the existing ditch line. All soft unstable organic material will need to be undercut a maximum depth of two feet prior to embankment construction. The embankment may be constructed with locally available unspecified material utilizing the 3:1 slope configuration shown in the cross-sections.

The proposed 3:1 cut slopes are acceptable as shown in the cross-sections.

Listed below is the additional information requested for use in developing the plans:

1. The Qualified Products List (QPL) indicates that Aggregate Base Course (Class CL-7) is available from commercial producers located at the Yellow Bend river port near the vicinity of McGehee.
2. Asphalt Concrete Hot Mix

**PG64-22**

<b>Type</b>	<b>Asphalt Cement %</b>	<b>Mineral Aggregate %</b>
Surface Course	5.3	94.7
Binder Course	4.2	95.8
Base Course	3.8	96.2

**PG70-22**

<b>Type</b>	<b>Asphalt Cement %</b>	<b>Mineral Aggregate %</b>
Surface Course	5.4	94.6
Binder Course	4.4	95.6
Base Course	4.0	96.0

**PG76-22**

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.3	94.7
Binder Course	4.3	95.7
Base Course	4.0	96.0



Michael C. Benson  
Materials Engineer

MCB:pt:bjj  
Attachment  
cc: State Constr. Eng. – Master File Copy  
District 2 Engineer  
Planning Div.  
G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION  
MICHAEL BENSON, MATERIALS ENGINEER  
\*\*\* SOIL SURVEY STRENGTH TEST REPORT \*\*\*

DATE - 08/02/2013

SEQUENCE NO. - 1

JOB NUMBER - 020534

MATERIAL CODE - SSRVPS

SPEC. YEAR - 2003

SUPPLIER ID. - 1

COUNTY/STATE - 02

DISTRICT NO. - 02

JOB NAME - CO.RD.411 - HWY.425 (EAST OF CROSSETT) (S)

\*\*\*\*\*  
\* STATION LIMITS R-VALUE AT 240 psi \*

\*\*\*\*\*

BEGIN JOB - END JOB 8

RESILIENT MODULUS

STA.144+00 8772

STA.375+00 9128

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REMARKS -

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AASHTO TESTS : T190

JOB NAME: CO.RD.411 - HWY.425(EAST OF CROSSETT)(S)

Materials Division

COUNTY NO. 2

Michael Benson, Materials Engineer

STA # LOC. [REDACTED]

PAVEMENT SOUNDINGS

120+00	6'RT	ACHMSC	AGG.BASE CRS, CL-5 <b>11.0W</b>
120+00	18'RT	ACHMSC	AGG.BASE CRS, CL-5 <b>8.25W</b>
120+00	45'RT	ACHMSC	AGG.BASE CRS, CL-5 ---
128+00	6'LT	ACHMSC	AGHMB 4.0W 1.75
128+00	15'LT	ACHMSC	AGHMB 4.0W ---
128+00	25'LT	ACHMSC	AGHMB ---
136+00	6'RT	ACHMSC	AGG.BASE CRS, CL-5 <b>6.5W</b>
136+00	15'RT	ACHMSC	AGG.BASE CRS, CL-5 <b>4.0W</b> 3.0
136+00	25'RT	ACHMSC	AGG.BASE CRS, CL-5 ---
144+00	6'LT	ACHMSC	AGHMB 4.75W 1.25
144+00	15'LT	ACHMSC	AGHMB 3.75W ---
144+00	25'LT	ACHMSC	AGHMB ---
152+00	6'RT	ACHMSC	AGG.BASE CRS, CL-5 <b>9.0W</b>
152+00	15'RT	ACHMSC	AGG.BASE CRS, CL-5 <b>6.25W</b> 3.0
152+00	25'RT	ACHMSC	AGG.BASE CRS, CL-5 ---
160+00	6'LT	ACHMSC	AGHMB 4.75W 2.25
160+00	15'LT	ACHMSC	AGHMB 4.75 3.0

Comments: LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

## STA.# LOC.

## PAVEMENT SOUNDINGS

160+00	25'LT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
168+00	35'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
168+00	44'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
168+00	65'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
176+00	25'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
176+00	35'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
176+00	48'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
184+00	55'RT	ACHMSC	AC-HMBC	AGG.BASE CRS, CL-5
184+00	64'RT	ACHMSC	AC-HMBC	AGG.BASE CRS, CL-5
184+00	75'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
192+00	CL	ACHMSC	---	---
192+00	20'RT	ACHMSC	---	---
192+00	34'RT	ACHMSC	---	---
200+00	10'RT	ACHMSC	AGG.BASE CRS, CL-5	---
200+00	19'RT	ACHMSC	AGG.BASE CRS, CL-5	---
200+00	CL	ACHMSC	AGG.BASE CRS, CL-5	---
207+00	26'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
207+00	35'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5
207+00	45'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5

Comments: L=LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

**ST4.# LOC.****PAVEMENT SOUNDINGS**

216+00	5'RT	ACHMSC	AGG BASE CRS, CL-5
		<b>5.75W</b>	
216+00	5'LT	ACHMSC	AGG BASE CRS, CL-5
		<b>4.0</b>	3.0
216+00	15'RT	ACHMSC	AGG.BASE CRS, CL-5
		---	---
224+00	6'RT	ACHMSC	AGG.BASE CRS, CL-5
		<b>4.5</b>	3.75
224+00	15'RT	ACHMSC	AGG.BASE CRS, CL-5
		<b>5.5W</b>	4.0
224+00	25'RT	ACHMSC	AGG.BASE CRS, CL-5
		---	---
232+00	6'LT	ACHMSC	AGG.BASE CRS, CL-5
		<b>4.5</b>	3.75
232+00	15'LT	ACHMSC	AGG.BASE CRS, CL-5
		<b>5.5W</b>	4.0
232+00	25'LT	ACHMSC	AGG.BASE CRS, CL-5
		---	---
240+00	6'RT	ACHMSC	AGG.BASE CRS, CL-5
		<b>4.0W</b>	2.25
240+00	15'RT	ACHMSC	AGG.BASE CRS, CL-5
		<b>4.75W</b>	3.0
240+00	25'RT	ACHMSC	AGG.BASE CRS, CL-5
		---	---
248+00	6'LT	ACHMSC	AGG.BASE CRS, CL-5
		<b>3.5W</b>	2.5
248+00	15'LT	ACHMSC	AGG.BASE CRS, CL-5
		<b>4.0W</b>	5.0
248+00	25'LT	ACHMSC	AGG.BASE CRS, CL-5
		---	---
256+00	18'RT	ACHMSC	AGG BASE CRS, CL-5
		<b>4.0W</b>	2.5
256+00	28'RT	ACHMSC	AGG.BASE CRS, CL-5
		<b>4.0W</b>	5.0
256+00	38'RT	ACHMSC	AGG.BASE CRS, CL-5
		---	---
265+00	6'RT	ACHMSC	AGG.BASE CRS, CL-5
		<b>6.0W</b>	1.75

**comments:** LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

**STA.# LOC.****PAVEMENT SOUNDINGS**

265+00	4'LT	ACHMSC 6.5W	ACHMBC	AGG.BASE CRS, CL-5 4.0		
265+00	14'LT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5		
272+00	6'RT	ACHMSC 5.0W	ACHMSC	ACHMBC 1.75	AGG.BASE CRS, CL-5	
272+00	15'RT	ACHMSC 6.5W	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5 4.0	
272+00	25'RT	ACHMSC	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5	
280+00	6'LT	ACHMSC 5.5W	ACHMBC 2.0	AGG.BASE CRS, CL-5		
280+00	15'LT	ACHMSC 4.75W	ACHMBC	AGG.BASE CRS, CL-5 5.0		
280+00	25'LT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5		
288+00	6'RT	ACHMSC 5.25	ACHMBC 1.75	AGG.BASE CRS, CL-5		
288+00	15'RT	ACHMSC 4.5W	ACHMBC	AGG.BASE CRS, CL-5 5.0		
288+00	25'RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5		
296+00	6'LT	ACHMSC 2.5	ACHMSC 4.75X	AGG.BASE CRS, CL-5		
296+00	15'LT	ACHMSC 3.5W	ACHMSC 4.0	AGG.BASE CRS, CL-5		
296+00	25'LT	ACHMSC	ACHMSC	AGG.BASE CRS, CL-5		
304+00	6'RT	ACHMSC 4.0W	ACHMSC	AGG.BASE CRS, CL-5		
304+00	15'RT	ACHMSC 5.25W	ACHMSC	AGG.BASE CRS, CL-5 4.0		
304+00	25'RT	ACHMSC	ACHMSC	AGG.BASE CRS, CL-5		
312+00	6'LT	ACHMSC 4.25W	SOIL CEMENT 4.0	AGG.BASE CRS, CL-5		
312+00	15'LT	ACHMSC	ACHMBC	AGG.BASE CRS, CL-5 4.0		
		3.5W				

**Comments:** LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

## STA.# LOC.

## PAVEMENT SOUNDINGS

STA.#	LOC.	Material	Description	Thickness	Comments
312+00	25'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
320+00	6'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
320+00	15'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
328+00	25'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
328+00	6'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
328+00	15'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
328+00	4.5W	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
336+00	6'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
336+00	15'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
336+00	3.75W	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
336+00	25'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
344+00	6'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
344+00	15'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
344+00	525W	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
344+00	25'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
352+00	6'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
352+00	15'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
352+00	4.75W	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
360+00	25'RT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
360+00	6'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
360+00	5.0W	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
360+00	15'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
360+00	3.75W	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5
360+00	25'LT	ACHMSC	ACHMBC	SOIL CEMENT	AGG.BASE CRS, CL-5

comments: LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

**STA.# LOC.****PAVEMENT SOUNDINGS**

<b>STA.# LOC.</b>	<b>PAVEMENT SOUNDINGS</b>
368+00 6'RT ACHMSC 4.25W	ACHMBC SOIL CEMENT 3.0 5.0
368+00 15'RT ACHMSC 3.25	ACHMBC SOIL CEMENT — 10.0
368+00 25'RT ACHMSC	ACHMBC SOIL CEMENT — —
375+00 10'RT ACHMSC 5.5W	ACHMBC SOIL CEMENT 7.0 7.0
375+00 CL ACHMSC	ACHMBC SOIL CEMENT — —
375+00 14'LT ACHMSC	ACHMBC SOIL CEMENT — —
384+00 17'RT ACHMSC 6.0W	ACHMBC SOIL CEMENT 8.0 8.0
384+00 25'RT ACHMSC	ACHMBC SOIL CEMENT — —
384+00 36'RT ACHMSC	ACHMBC SOIL CEMENT — —
392+00 6'LT ACHMSC 2.0	ACHMBC SOIL CEMENT 6.0 6.0
392+00 15'LT ACHMSC	ACHMBC SOIL CEMENT — —
400+00 6'RT ACHMSC 5.75W	ACHMBC SOIL CEMENT 6.0 6.0
400+00 15'RT ACHMSC 5.5W	ACHMBC SOIL CEMENT — —
400+00 25'RT ACHMSC	ACHMBC SOIL CEMENT — —

**Comments:** LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

JOB: 020534

## Arkansas State Highway Transportation Department

JOB NAME: CO.RD.411 - HWY.425(EAST OF CROSSETT)(S)

Materials Division

COUNTY NO. 2 DATE TESTED

8/5/2013

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
144+00	25'LT	0-5	BROWN	100	96	96	96	96	31	14	A-6(11)	RV1435	
224+00	25'RT	0-5	GRAY	100	96	96	96	96	26	9	A-4(7)	RV1436	
280+00	25'LT	0-5	BROWN	100	96	96	96	96	30	11	A-6(9)	RV1437	
336+00	25'RT	0-5	BROWN	100	96	96	96	96	27	9	A-4(6)	RV1438	
375+00	14'LT	0-5	BR/GR	100	96	96	96	96	25	7	A-4(5)	RV1439	
120+00	6'RT	0-5	GRAY	100	96	96	96	96	20	5	A-4(1)	S1327	15
120+00	18'RT	0-5	GRAY	100	96	96	96	96	22	8	A-4(2)	S1328	15.3
120+00	45'RT	0-5	GRAY	100	96	96	96	96	25	7	A-4(4)	S1329	24.1
128+00	6'LT	0-5	BR/GR	100	96	96	96	96	24	6	A-4(3)	S1330	17.4
128+00	15'LT	0-5	BR/GR	100	96	96	96	96	27	8	A-4(5)	S1331	18.1
128+00	25'LT	0-5	BROWN	100	96	96	96	96	29	9	A-4(7)	S1332	19.1
136+00	6'RT	0-5	BROWN	100	96	96	96	96	24	6	A-4(3)	S1333	20
136+00	15'RT	0-5	GRAY	100	96	96	96	96	27	8	A-4(5)	S1334	20.6
136+00	25'RT	0-5	BROWN	100	96	96	96	96	29	10	A-4(8)	S1335	23.1
144+00	6'LT	0-5	BROWN	100	96	96	96	96	23	7	A-4(3)	S1336	19.7
144+00	15'LT	0-5	BROWN	100	96	96	96	96	23	7	A-4(2)	S1337	16.1
144+00	25'LT	0-5	BROWN	100	96	96	96	96	30	13	A-6(11)	S1338	21.1
152+00	6'RT	0-5	BR/GR	100	96	96	96	96	21	6	A-4(2)	S1339	18.5
152+00	15'RT	0-5	BR/GR	100	96	96	96	96	20	5	A-4(1)	S1340	15.9
152+00	25'RT	0-5	BR/GR	100	96	96	96	96	22	5	A-4(1)	S1341	16.9
160+00	6'LT	0-5	BROWN	100	96	96	96	96	24	7	A-4(4)	S1342	18.9
160+00	15'LT	0-5	GRAY	100	96	96	96	96	28	9	A-4(6)	S1343	20.8
160+00	25'LT	0-5	BROWN	100	96	96	96	96	28	9	A-4(6)	S1344	25.9
168+00	35'RT	0-5	BR/GR	100	96	96	96	96	27	11	A-6(8)	S1345	18.8
168+00	44'RT	0-5	BR/GR	100	96	96	96	96	30	14	A-6(10)	S1346	18.4
168+00	65'RT	0-5	BR/GR	100	96	96	96	96	24	6	A-4(4)	S1347	22.3

Comments: LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

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STA.#	LOC.	DEPTH	COLOR	#4 S						#10 I			#40 E			#80 V			#200 E			L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE			
				S	I	E	V	E	S	I	E	V	E	S	I	E	V	E	S	I	E	V	E	S					
176+00	25'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	27	7	A-4(5)	S1348	19.6
176+00	35'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	26	9	A-4(5)	S1349	19.4
176+00	48'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	26	8	A-4(5)	S1350	18.6
184+00	55'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	23	7	A-4(3)	S1351	16.4
184+00	64'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	22	7	A-4(2)	S1352	18.3
184+00	75'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	28	9	A-4(7)	S1353	23.2
192+00	CL	0-5	BROWN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	40	19	A-6(19)	S1354	25.5
192+00	20'RT	0-5	BROWN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	31	15	A-6(8)	S1355	18
192+00	34'RT	0-5	BROWN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	26	12	A-6(6)	S1356	19.5
200+00	10'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	23	8	A-4(2)	S1357	13.9
200+00	19'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	21	5	A-4(1)	S1358	20.2
200+00	CL	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	31	12	A-6(10)	S1359	20
207+00	26'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	28	13	A-6(10)	S1360	17.1
207+00	35'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	27	11	A-6(7)	S1361	15.7
207+00	45'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	18	4	A-4(0)	S1362	18.2
216+00	5'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	28	15	A-6(9)	S1363	16.3
216+00	5'LT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	27	13	A-6(9)	S1364	17.1
216+00	15'RT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	30	18	A-6(11)	S1365	17.7
224+00	6'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	24	10	A-4(6)	S1366	16.7
224+00	15'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	28	13	A-6(9)	S1367	16.4
224+00	25'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	27	11	A-6(8)	S1368	21.1
232+00	6'LT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	23	7	A-4(2)	S1369	18.4
232+00	15'LT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	26	11	A-6(6)	S1370	19.2
232+00	25'LT	0-5	BR/GR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	30	10	A-4(9)	S1371	26.1
240+00	6'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	24	7	A-4(3)	S1372	19.5
240+00	15'RT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	25	7	A-4(3)	S1373	20.4
240+00	25'RT	0-5	BROWN	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	27	8	A-4(5)	S1374	21.4
248+00	6'LT	0-5	GRAY	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	24	8	A-4(3)	S1375	16.8

comments: LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

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STA.#	LOC.	DEPTH	COLOR	#4 #10 #40 #80 #200						L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E	S					
248+00	15'LT	0-5	BR/GR	99	99	99	99	99	99	23	7	A-4(4)	S1376	17.8
248+00	25'LT	0-5	BROWN	99	99	99	99	99	99	27	12	A-6(8)	S1377	21
256+00	18'RT	0-5	BR/GR	99	99	99	99	99	99	23	8	A-4(5)	S1378	18.4
256+00	28'RT	0-5	BR/GR	99	99	99	99	99	99	22	7	A-4(4)	S1379	19.4
256+00	38'RT	0-5	GRAY	99	99	99	99	99	99	24	9	A-4(6)	S1380	22
265+00	6'RT	0-5	BR/GR	99	99	99	99	99	99	23	10	A-4(6)	S1381	17
265+00	4'LT	0-5	BR/GR	99	99	99	99	99	99	26	12	A-6(7)	S1382	17.7
265+00	14'LT	0-5	BR/GR	99	99	99	99	99	99	21	6	A-4(2)	S1383	19.5
272+00	6'RT	0-5	BR/GR	99	99	99	99	99	99	26	12	A-6(9)	S1384	19.6
272+00	15'RT	0-5	BR/GR	99	99	99	99	99	99	26	11	A-6(7)	S1385	20.2
272+00	25'RT	0-5	BR/GR	99	99	99	99	99	99	32	17	A-6(15)	S1386	21
280+00	6'LT	0-5	BR/GR	99	99	99	99	99	99	27	12	A-6(7)	S1387	15.4
280+00	15'LT	0-5	BR/GR	99	99	99	99	99	99	22	5	A-4(2)	S1388	18.9
280+00	25'LT	0-5	BROWN	99	99	99	99	99	99	29	10	A-4(8)	S1389	24.3
288+00	6'RT	0-5	BR/GR	99	99	99	99	99	99	27	9	A-4(6)	S1390	18.6
288+00	15'RT	0-5	BR/GR	99	99	99	99	99	99	27	8	A-4(6)	S1391	22.2
288+00	25'RT	0-5	BR/GR	99	99	99	99	99	99	36	17	A-6(15)	S1392	26.3
296+00	6'LT	0-5	BR/GR	99	99	99	99	99	99	24	7	A-4(3)	S1393	19.1
296+00	15'LT	0-5	GRAY	99	99	99	99	99	99	28	10	A-4(8)	S1394	20
296+00	25'LT	0-5	BROWN	99	99	99	99	99	99	28	9	A-4(7)	S1395	22.3
304+00	6'RT	0-5	GRAY	99	99	99	99	99	99	26	10	A-4(6)	S1396	15.2
304+00	15'RT	0-5	GRAY	99	99	99	99	99	99	24	7	A-4(3)	S1397	21.7
304+00	25'RT	0-5	BROWN	99	99	99	99	99	99	28	11	A-6(7)	S1398	17.6
312+00	6'LT	0-5	GRAY	99	99	99	99	99	99	27	11	A-6(7)	S1399	17.2
312+00	15'LT	0-5	GRAY	99	99	99	99	99	99	29	14	A-6(10)	S1400	18.1
312+00	25'LT	0-5	BROWN	99	99	99	99	99	99	32	16	A-6(14)	S1401	20.1
320+00	6'RT	0-5	BR/GR	99	99	99	99	99	99	22	7	A-4(3)	S1402	17.2
320+00	15'RT	0-5	GRAY	99	99	88	99	99	99	23	8	A-4(3)	S1403	18.1

Comments: LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
W=MULTIPLE LAYERS, X=STRIPPED

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STA.#	LOC.	DEPTH	COLOR	#4 S						#10 I			#40 E			#80 V			#200 E			L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE	
				#4	#10	#40	#80	#200		S	I	E	V	E	S												
320+00	25'RT	0-5	BROWN	99	99	97	92	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	27	9	A-4(7)	S1404	20.1
328+00	6'LT	0-5	BR/GR	99	99	97	92	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	25	10	A-4(6)	S1405	18.3
328+00	15'LT	0-5	GRAY	99	99	97	93	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	29	15	A-6(10)	S1406	18.6
328+00	25'LT	0-5	BROWN	99	99	97	92	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	31	14	A-6(12)	S1407	21.8
336+00	6'RT	0-5	GRAY	98	98	95	88	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	23	7	A-4(2)	S1408	22
336+00	15'RT	0-5	BR/GR	97	97	89	77	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	24	8	A-4(2)	S1409	16.8
336+00	25'RT	0-5	BROWN	100	98	96	93	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	28	12	A-6(8)	S1410	20.4
344+00	6'LT	0-5	BROWN	99	99	97	93	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	32	18	A-6(11)	S1411	19
344+00	15'LT	0-5	BROWN	98	98	96	92	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	23	7	A-4(3)	S1412	18.8
344+00	25'LT	0-5	BROWN	99	99	96	88	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	28	12	A-6(6)	S1413	21.3
352+00	6'RT	0-5	BR/GR	99	99	97	92	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	27	13	A-6(8)	S1414	16.2
352+00	15'RT	0-5	GRAY	99	99	98	94	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	30	15	A-6(11)	S1415	19.7
352+00	25'RT	0-5	BROWN	99	99	97	92	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	31	14	A-6(12)	S1416	20.7
360+00	6'LT	0-5	BROWN	99	99	97	90	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	24	8	A-4(4)	S1417	16.5
360+00	15'LT	0-5	GRAY	95	95	90	83	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	22	7	A-4(2)	S1418	18.1
360+00	25'LT	0-5	BR/GR	99	99	95	89	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	25	7	A-4(4)	S1419	23.2
368+00	6'RT	0-5	BR/GR	100	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	24	7	A-4(4)	S1420	17.2
368+00	15'RT	0-5	BR/GR	98	98	93	84	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	26	8	A-4(4)	S1421	21.5
368+00	25'RT	0-5	BROWN	97	95	95	92	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	30	12	A-6(10)	S1422	23.5
375+00	10'RT	0-5	BR/GR	100	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	24	10	A-4(6)	S1423	15.4
375+00	CL	0-5	BR/GR	98	98	93	89	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	23	10	A-4(5)	S1424	16.6
375+00	14'LT	0-5	BR/GR	99	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	24	9	A-4(6)	S1425	13
384+00	17'RT	0-5	BR/GR	100	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	28	11	A-6(8)	S1426	17.3
384+00	25'RT	0-5	BR/GR	99	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	25	10	A-4(7)	S1427	17.8
384+00	36'RT	0-5	BR/GR	99	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	26	11	A-6(8)	S1428	16.2
392+00	6'LT	0-5	BR/GR	100	99	99	96	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	23	7	A-4(4)	S1429	19
392+00	15'LT	0-5	BR/GR	99	98	98	95	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	25	10	A-4(6)	S1430	18.5
392+00	25'LT	0-5	BROWN	100	99	99	95	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	25	10	A-4(6)	S1431	17.2

**Comments:** LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

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STA.#	LOC.	DEPTH	COLOR	#4 S					#10 I	#40 E	#80 V	#200 E	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E	S								
400+00	6'RT	0-5	GRAY	100	19	6	10	10					22	8	A-4(4)	S1432	17.2
400+00	15'RT	0-5	GRAY	100	19	6	10	10					21	6	A-4(2)	S1433	18.3
400+00	25'RT	0-5	BR/GR	100	19	6	10	10					21	5	A-4(2)	S1434	17.1

**comments:** LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
W=MULTIPLE LAYERS, X=STRIPPED

Wednesday, August 07, 2013

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**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**  
**MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS**  
**RECOMPACTED SAMPLES**

<b>Job No.</b>	020534	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	07/31/2013	<b>Station No.:</b>	375+00
<b>Date Tested:</b>	July 31, 2013	<b>Location:</b>	14'LT
<b>Name of Project:</b>	CO.RD.411 - HWY.425 (EAST OF CROSSETT)(S)		
<b>County:</b>	Code: 2	Name: ASHLEY	
<b>Sampled By:</b>	FAULKNER	<b>Depth:</b>	0-5
<b>Lab No.:</b>	20133184	<b>AASHTO Class:</b>	A-4(5)
<b>Sample ID:</b>	RV1439	<b>Material Type (1 or 2):</b>	2
<b>LATITUDE:</b>	<b>LONGITUDE:</b>		

**1. Testing Information:**

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

**2. Specimen Information:**

Specimen Diameter (in):	
Top	3.96
Middle	3.95
Bottom	3.95
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.03
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.03
Initial Area, Ao (sq. in):	12.19
Initial Volume, AoLo (cu. in):	97.92

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3145.50
------------------------------	---------

**4. Soil Properties:**

Optimum Moisture Content (%):	14.4
Maximum Dry Density (pcf):	110.8
95% of MDD (pcf):	105.3
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3145.50
Compaction Moisture content (%):	14.3
Compaction Wet Density (pcf):	122.40
Compaction Dry Density (pcf):	107.08
Moisture Content After Mr Test (%):	14.1

**6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):** #VALUE!

**7. Resilient Modulus, Mr:** 11069(Sc)^-0.19191(S3)^0.30435

**8. Comments** \_\_\_\_\_  
 \_\_\_\_\_

**9. Tested By:** DEB **Date:** July 31, 2013

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**  
**MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS**  
**RECOMPACTED SAMPLES**

Job No.: 020534  
 Date Sampled: 07/31/2013  
 Date Tested: July 31, 2013  
 Name of Project: CO.RD.411 - HWY.425 (EAST OF CROSSETT)(S)  
 County: Code: 2 Name: ASHLEY  
 Sampled By: FAULKNER  
 Lab No.: 20133184  
 Sample ID: RV1439  
 LATITUDE:

Material Code SSRVPS  
 Station No.: 375+00  
 Location: 14'LT

Depth: 0-5  
 AASHTO Class: A-4(5)  
 Material Type (1 or 2): 2  
 LONGITUDE:

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain $\epsilon_r$	Resilient Modulus $M_r$
DESIGNATION	UNIT	$S_3$	psi	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.1	22.4	2.7	2.1	1.8	0.2	0.00089	0.00011	16,590
Sequence 2	6.0	4.0	47.3	44.5	2.7	3.9	3.7	0.2	0.00189	0.00023	15,548
Sequence 3	6.0	6.0	69.9	66.3	3.6	5.7	5.4	0.3	0.00297	0.00037	14,696
Sequence 4	6.0	8.0	93.2	87.1	6.1	7.6	7.1	0.5	0.00434	0.00054	13,218
Sequence 5	6.0	10.0	115.8	107.3	8.6	9.5	8.8	0.7	0.00588	0.00073	12,012
Sequence 6	4.0	2.0	24.9	22.2	2.7	2.0	1.8	0.2	0.00099	0.00012	14,750
Sequence 7	4.0	4.0	46.8	44.0	2.8	3.8	3.6	0.2	0.00218	0.00027	13,270
Sequence 8	4.0	6.0	68.0	65.2	2.8	5.6	5.3	0.2	0.00351	0.00044	12,227
Sequence 9	4.0	8.0	91.0	85.9	5.1	7.5	7.0	0.4	0.00495	0.00062	11,419
Sequence 10	4.0	10.0	113.6	105.9	7.7	9.3	8.7	0.6	0.00651	0.00081	10,706
Sequence 11	2.0	2.0	24.8	22.1	2.7	2.0	1.8	0.2	0.00121	0.00015	11,982
Sequence 12	2.0	4.0	46.0	43.2	2.7	3.8	3.5	0.2	0.00261	0.00032	10,929
Sequence 13	2.0	6.0	66.4	63.6	2.8	5.4	5.2	0.2	0.00415	0.00052	10,092
Sequence 14	2.0	8.0	87.8	83.5	4.3	7.2	6.8	0.4	0.00579	0.00072	9,491
Sequence 15	2.0	10.0	110.3	103.5	6.8	9.0	8.5	0.6	0.00747	0.00093	9,128

TESTED BY DEB  
 REVIEWED BY

DATE July 31, 2013  
 DATE

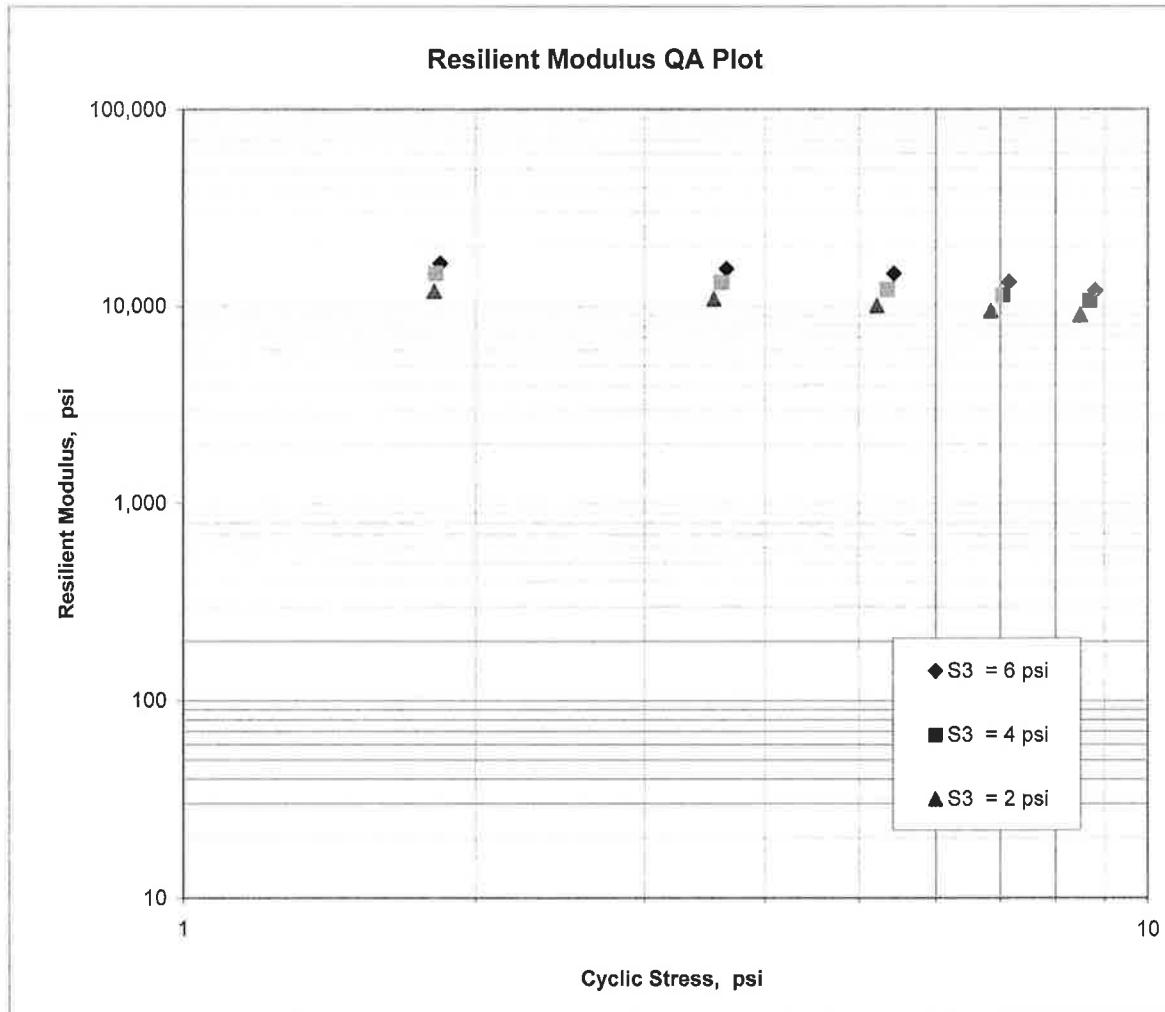
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS  
RECOMPACTED / THINWALL TUBE SAMPLES

Job No. 020534 Material Code SSRVPS  
Date Sampled: 07/31/2013 Station No.: 375+00  
Date Tested: July 31, 2013 Location: 14'LT  
Name of Project: CO.RD.411 - HWY.425 (EAST OF CROSSETT)(S)  
County: Code: 2 Name: ASHLEY  
Sampled By: FAULKNER Depth: 0-5  
Lab No.: 20133184 AASHTO Class: A-4(5)  
Sample ID: RV1439 Material Type (1 or 2): 2  
LATITUDE: LONGITUDE:

$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$\begin{aligned} K_1 &= \underline{\underline{11,069}} \\ K_2 &= \underline{\underline{-0.19191}} \\ K_5 &= \underline{\underline{0.30435}} \\ R^2 &= \underline{\underline{0.97}} \end{aligned}$$



**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS  
RECOMPACTED SAMPLES**

<b>Job No.</b>	020534	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	07/31/2013	<b>Station No.:</b>	144+00
<b>Date Tested:</b>	July 31, 2013	<b>Location:</b>	25'LT
<b>Name of Project:</b>	CO.RD.411 - HWY.425 (EAST OF CROSSETT)(S)		
<b>County:</b>	Code: 2	Name: ASHLEY	
<b>Sampled By:</b>	FAULKNER	<b>Depth:</b>	0-5
<b>Lab No.:</b>	20133180	<b>AASHTO Class:</b>	A-6(11)
<b>Sample ID:</b>	RV1435	<b>Material Type (1 or 2):</b>	2
<b>LATITUDE:</b>	<b>LONGITUDE:</b>		

**1. Testing Information:**

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

**2. Specimen Information:**

Specimen Diameter (in):	
Top	3.96
Middle	3.96
Bottom	3.96
Average	3.96
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.05
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.05
Initial Area, Ao (sq. in):	12.24
Initial Volume, AoLo (cu. in):	98.50

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3074.20
------------------------------	---------

**4. Soil Properties:**

Optimum Moisture Content (%):	14.8
Maximum Dry Density (pcf):	109.9
95% of MDD (pcf):	104.4
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3074.20
Compaction Moisture content (%):	14.3
Compaction Wet Density (pcf):	118.92
Compaction Dry Density (pcf):	104.04
Moisture Content After Mr Test (%):	14.3

**6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):** #VALUE!

**7. Resilient Modulus, Mr:** 8768(Sc)<sup>-0.12795</sup>(S3)<sup>0.34275</sup>

**8. Comments** \_\_\_\_\_

**9. Tested By:** DEB **Date:** July 31, 2013

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**  
**MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS**  
**RECOMPACTED SAMPLES**

Job No.	020534	Material Code	SSRVPS
Date Sampled:	07/31/2013	Station No.:	144+00
Date Tested:	July 31, 2013	Location:	25LT
Name of Project:	CO.RD.411 - HWY.425 (EAST OF CROSSETT)(S)		
County:	Code: 2	Name:	ASHLEY
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20133180	AASHTO Class:	A-6(11)
Sample ID:	RV1435	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	S <sub>max</sub>	S <sub>cyclic</sub>	S <sub>contact</sub>	H <sub>avg</sub>	ε <sub>r</sub>	Resilient Strain	Resilient Modulus M <sub>r</sub>
Sequence 1	6.0	2.0	25.3	22.6	2.7	2.1	1.9	0.2	0.00099	0.00012	15,107				
Sequence 2	6.0	4.0	47.3	44.7	2.6	3.9	3.7	0.2	0.00204	0.00025	14,406				
Sequence 3	6.0	6.0	70.0	66.5	3.6	5.7	5.4	0.3	0.00328	0.00041	13,330				
Sequence 4	6.0	8.0	93.7	87.7	6.0	7.7	7.2	0.5	0.00480	0.00060	12,015				
Sequence 5	6.0	10.0	116.9	108.4	8.5	9.6	8.9	0.7	0.00631	0.00078	11,296				
Sequence 6	4.0	2.0	25.2	22.5	2.7	2.1	1.8	0.2	0.00108	0.00013	13,649				
Sequence 7	4.0	4.0	47.1	44.4	2.7	3.8	3.6	0.2	0.00234	0.00029	12,495				
Sequence 8	4.0	6.0	68.6	65.8	2.7	5.6	5.4	0.2	0.00370	0.00046	11,706				
Sequence 9	4.0	8.0	92.1	86.9	5.2	7.5	7.1	0.4	0.00524	0.00065	10,920				
Sequence 10	4.0	10.0	115.4	107.7	7.7	9.4	8.8	0.6	0.00686	0.00085	10,327				
Sequence 11	2.0	2.0	24.9	22.1	2.8	2.0	1.8	0.2	0.00161	0.00020	9,043				
Sequence 12	2.0	4.0	46.8	43.9	2.9	3.8	3.6	0.2	0.00302	0.00037	9,572				
Sequence 13	2.0	6.0	67.8	64.9	2.9	5.5	5.3	0.2	0.00469	0.00058	9,109				
Sequence 14	2.0	8.0	90.2	85.7	4.5	7.4	7.0	0.4	0.00629	0.00078	8,968				
Sequence 15	2.0	10.0	113.4	106.4	7.0	9.3	8.7	0.6	0.00798	0.00099	8,772				

TESTED BY \_\_\_\_\_  
REVIEWED BY \_\_\_\_\_

DATE \_\_\_\_\_  
DATE \_\_\_\_\_

DEB \_\_\_\_\_  
DATE \_\_\_\_\_

JULY 31, 2013  
\_\_\_\_\_

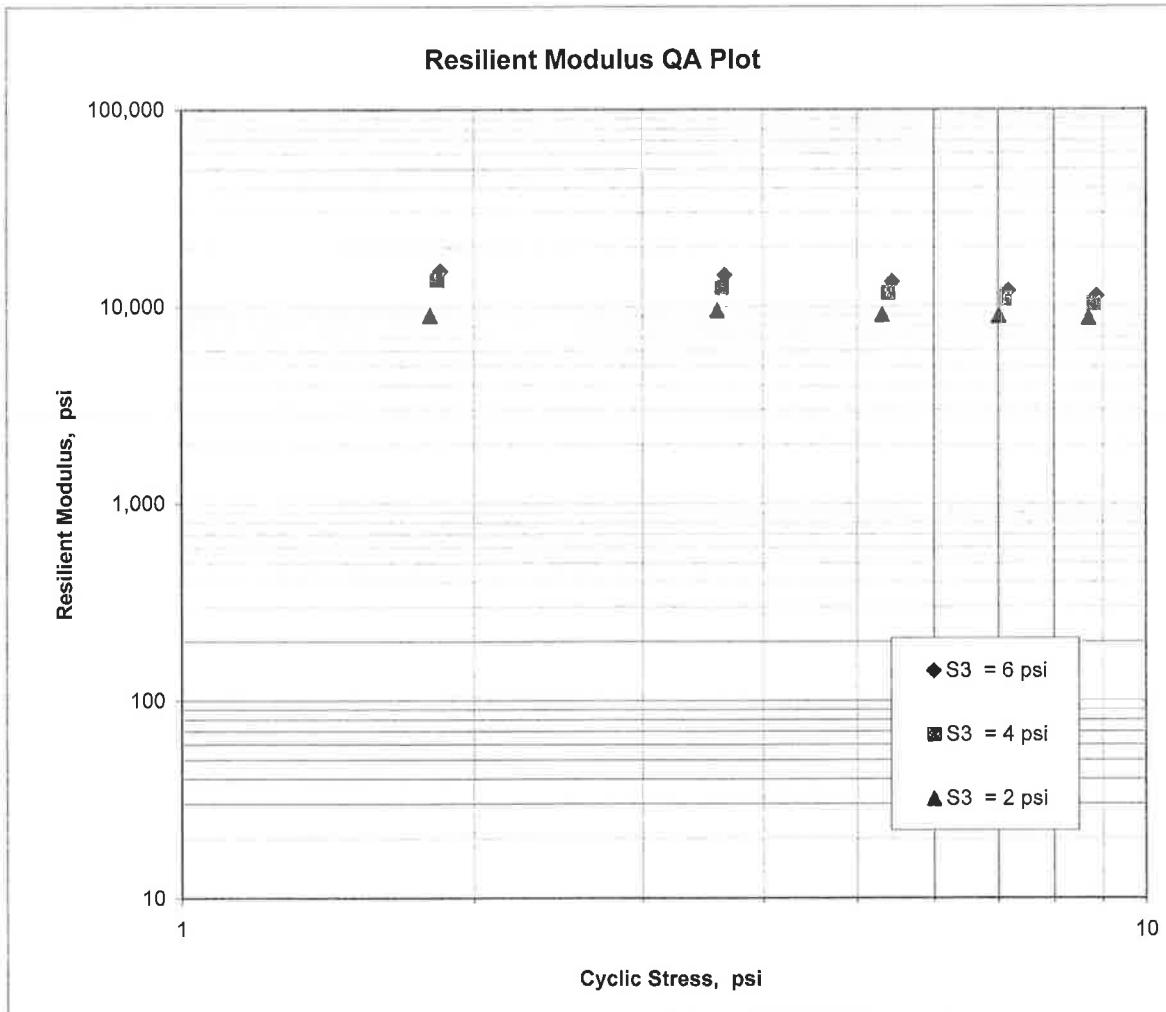
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**  
**MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS**  
**RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	020534	Material Code SSRVPS
Date Sampled:	07/31/2013	Station No.: 144+00
Date Tested:	July 31, 2013	Location: 25'LT
Name of Project:	CO.RD.411 - HWY.425 (EAST OF CROSSETT)(S)	
County:	Code: 2	Name: ASHLEY
Sampled By:	FAULKNER	Depth: 0-5
Lab No.:	20133180	AASHTO Class: A-6(11)
Sample ID:	RV1435	Material Type (1 or 2): 2
LATITUDE:	LONGITUDE:	

$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$\begin{aligned} K_1 &= \underline{\underline{8,768}} \\ K_2 &= \underline{\underline{-0.12795}} \\ K_5 &= \underline{\underline{0.34275}} \\ R^2 &= \underline{\underline{0.92}} \end{aligned}$$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 1
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133072	- 20133073	- 20133074
SAMPLE ID	- S1327	- S1328	- S1329
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 120+00	- 120+00	- 120+00
LOCATION	- 6' RT	- 18' RT	- 45' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 9.00	- 33 08 8.80	- 33 8 8.60
LONGITUDE DEG-MIN-SEC	- 91 54 49.80	- 91 54 49.80	- 91 54 49.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 98	- 99	- 98
	NO. 10 - 95	- 94	- 95
	NO. 40 - 87	- 89	- 90
	NO. 80 - 74	- 74	- 87
	NO. 200 - 66	- 64	- 84
LIQUID LIMIT	- 20	- 22	- 25
PLASTICITY INDEX	- 5	- 8	- 7
AASHTO SOIL	- A-4(1)	- A-4(2)	- A-4(4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.0	- 15.3	- 24.1
ACHMSC (IN)	- 11.0W	- 8.25W	- -----
AGG.BASE CRS, CL-5 (IN)	- -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

:

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 2
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133075	- 20133076	- 20133077
SAMPLE ID	- S1330	- S1331	- S1332
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 128+00	- 128+00	- 128+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 8.90	- 33 08 9.00	- 33 8 9.10
LONGITUDE DEG-MIN-SEC	- 91 54 40.40	- 91 54 40.40	- 91 54 40.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	- 100
	NO. 4 - 100	- 99	- 98
	NO. 10 - 98	- 97	- 96
	NO. 40 - 93	- 93	- 93
	NO. 80 - 88	- 88	- 91
	NO. 200 - 85	- 85	- 88
LIQUID LIMIT	- 24	- 27	- 29
PLASTICITY INDEX	- 6	- 8	- 9
AASHTO SOIL	- A-4 (3)	- A-4 (5)	- A-4 (7)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.4	- 18.1	- 19.1
ACHMSC	(IN) - 4.0W	- 4.0W	- -----
ACHMBC	(IN) - 1.75	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	-	08/06/13	SEQUENCE NO.	-	3		
JOB NUMBER	-	020534	MATERIAL CODE	-	SSRVPS		
FEDERAL AID NO.	-	TO BE ASSIGNED	SPEC. YEAR	-	2003		
PURPOSE	-	SOIL SURVEY SAMPLE	SUPPLIER ID.	-	1		
SPEC. REMARKS	-	NO SPECIFICATION CHECK	COUNTY/STATE	-	02		
SUPPLIER NAME	-	STATE	DISTRICT NO.	-	02		
NAME OF PROJECT	-	CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)					
PROJECT ENGINEER	-	NOT APPLICABLE					
PIT/QUARRY	-	ARKANSAS					
LOCATION	-	ASHLEY COUNTY	DATE SAMPLED	-	06/18/13		
SAMPLED BY	-	FAULKNER/BOUGHNER	DATE RECEIVED	-	06/20/13		
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	08/05/13		
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS					
LAB NUMBER	-	20133078	-	20133079	-	20133080	
SAMPLE ID	-	S1333	-	S1334	-	S1335	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	136+00	-	136+00	-	136+00	
LOCATION	-	6' RT	-	15' RT	-	25' RT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BROWN	-	GRAY	-	BROWN	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	33 8 8.50	-	33 08 8.40	-	33 8 8.30	
LONGITUDE DEG-MIN-SEC	-	91 54 30.60	-	91 54 30.60	-	91 54 30.70	
% PASSING	2	IN.	-		-		
	1 1/2	IN.	-		-		
	3/4	IN.	-		-		
	3/8	IN.	-	100	-		
	NO.	4	-	100	-		
	NO.	10	-	99	-		
	NO.	40	-	96	-		
	NO.	80	-	91	-		
	NO.	200	-	88	-	100	
			-	85	-	93	
LIQUID LIMIT	-	24	-	27	-	29	
PLASTICITY INDEX	-	6	-	8	-	10	
AASHTO SOIL	-	A-4 (3)	-	A-4 (5)	-	A-4 (8)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	20.0	-	20.6	-	23.1	
ACHMSC	(IN)	-	6.5W	-	4.0W	-	-----
AGG.BASE CRS, CL-5	(IN)	-	-----	-	3.0	-	-----
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 4
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425 (EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133081	- 20133082	- 20133083
SAMPLE ID	- S1336	- S1337	- S1338
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 144+00	- 144+00	- 144+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 8.40	- 33 08 8.50	- 33 8 8.60
LONGITUDE DEG-MIN-SEC	- 91 54 21.30	- 91 54 21.30	- 91 54 21.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 99	- 99	-
	NO. 10 - 95	- 92	-
	NO. 40 - 88	- 83	-
	NO. 80 - 81	- 72	- 100
	NO. 200 - 77	- 66	- 90
LIQUID LIMIT	- 23	- 23	- 30
PLASTICITY INDEX	- 7	- 7	- 13
AASHTO SOIL	- A-4 (3)	- A-4 (2)	- A-6 (11)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.7	- 16.1	- 21.1
ACHMSC	(IN) - 4.75W	- 3.75W	- -----
ACHMBC	(IN) - 1.25	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 5
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133084	- 20133085	- 20133086
SAMPLE ID	- S1339	- S1340	- S1341
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 152+00	- 152+00	- 152+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 8.00	- 33 08 7.90	- 33 8 7.80
LONGITUDE DEG-MIN-SEC	- 91 54 12.10	- 91 54 12.10	- 91 54 12.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	- 100
	NO. 4 - 100	- 99	- 97
	NO. 10 - 97	- 97	- 94
	NO. 40 - 89	- 89	- 88
	NO. 80 - 77	- 76	- 80
	NO. 200 - 72	- 70	- 73
LIQUID LIMIT	- 21	- 20	- 22
PLASTICITY INDEX	- 6	- 5	- 5
AASHTO SOIL	- A-4 (2)	- A-4 (1)	- A-4 (1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.5	- 15.9	- 16.9
ACHMSC	(IN) - 9.0W	- 6.25W	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 6
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133087	- 20133088	- 20133089
SAMPLE ID	- S1342	- S1343	- S1344
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 160+00	- 160+00	- 160+00
LOCATION	- 6'LT	- 15'LT	- 25'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 8.00	- 33 08 8.10	- 33 8 8.20
LONGITUDE DEG-MIN-SEC	- 91 54 2.50	- 91 54 2.40	- 91 54 2.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 97	- 100	- 100
	NO. 4 - 97	- 98	- 97
	NO. 10 - 95	- 96	- 94
	NO. 40 - 91	- 93	- 91
	NO. 80 - 86	- 90	- 89
	NO. 200 - 83	- 86	- 85
LIQUID LIMIT	- 24	- 28	- 28
PLASTICITY INDEX	- 7	- 9	- 9
AASHTO SOIL	- A-4 (4)	- A-4 (6)	- A-4 (6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.9	- 20.8	- 25.9
ACHMSC	(IN) - 4.75W	- 4.75	- -----
ACHMBC	(IN) - 2.25	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 7
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425 (EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133090	- 20133091	- 20133092
SAMPLE ID	- S1345	- S1346	- S1347
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 168+00	- 168+00	- 168+00
LOCATION	- 35' RT	- 44' RT	- 65' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 7.70	- 33 08 7.60	- 33 8 7.40
LONGITUDE DEG-MIN-SEC	- 91 53 53.10	- 91 53 53.20	- 91 53 53.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	-
	NO. 4 -	- 99	- 100
	NO. 10 -	- 97	- 98
	NO. 40 -	- 93	- 96
	NO. 80 -	- 89	- 93
	NO. 200 -	- 85	- 89
LIQUID LIMIT	- 27	- 30	- 24
PLASTICITY INDEX	- 11	- 14	- 6
AASHTO SOIL	- A-6 (8)	- A-6 (10)	- A-4 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.8	- 18.4	- 22.3
ACHMSC	(IN) - 4.75W	- 5.0W	- -----
ACHMBC	(IN) - 3.0	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 8
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133093	- 20133094	- 20133095
SAMPLE ID	- S1348	- S1349	- S1350
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 176+00	- 176+00	- 176+00
LOCATION	- 25' RT	- 35' RT	- 48' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 7.80	- 33 08 7.70	- 33 8 7.60
LONGITUDE DEG-MIN-SEC	- 91 53 44.00	- 91 53 44.00	- 91 53 44.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	-	-
	NO. 4 - 99	- 100	- 100
	NO. 10 - 97	- 97	- 98
	NO. 40 - 93	- 91	- 94
	NO. 80 - 89	- 82	- 88
	NO. 200 - 86	- 79	- 85
LIQUID LIMIT	- 27	- 26	- 26
PLASTICITY INDEX	- 7	- 9	- 8
AASHTO SOIL	- A-4 (5)	- A-4 (5)	- A-4 (5)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.6	- 19.4	- 18.6
ACHMSC	(IN) - ----	- 4.0	- 4.0
ACHMBC	(IN) - ----	- 2.0	- 2.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
- W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	-	08/06/13	SEQUENCE NO.	-	9		
JOB NUMBER	-	020534	MATERIAL CODE	-	SSRVPS		
FEDERAL AID NO.	-	TO BE ASSIGNED	SPEC. YEAR	-	2003		
PURPOSE	-	SOIL SURVEY SAMPLE	SUPPLIER ID.	-	1		
SPEC. REMARKS	-	NO SPECIFICATION CHECK	COUNTY/STATE	-	02		
SUPPLIER NAME	-	STATE	DISTRICT NO.	-	02		
NAME OF PROJECT	-	CO.RD.411 - HWY.425 (EAST OF CROSSETT) (S)					
PROJECT ENGINEER	-	NOT APPLICABLE					
PIT/QUARRY	-	ARKANSAS					
LOCATION	-	ASHLEY COUNTY	DATE SAMPLED	-	06/18/13		
SAMPLED BY	-	FAULKNER/BOUGHNER	DATE RECEIVED	-	06/20/13		
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	08/05/13		
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS					
LAB NUMBER	-	20133096	-	20133097	-	20133098	
SAMPLE ID	-	S1351	-	S1352	-	S1353	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	184+00	-	184+00	-	184+00	
LOCATION	-	55' RT	-	64' RT	-	75' RT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BR/GR	-	BR/GR	-	BR/GR	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	33 8 7.10	-	33 08 7.10	-	33 8 7.00	
LONGITUDE DEG-MIN-SEC	-	91 53 34.50	-	91 53 34.50	-	91 53 34.60	
% PASSING	2	IN.	-	-	-	-	
	1 1/2	IN.	-	-	-	-	
	3/4	IN.	-	-	-	-	
	3/8	IN.	-	100	-	100	
	NO.	4	-	99	-	99	
	NO.	10	-	97	-	98	
	NO.	40	-	91	-	94	
	NO.	80	-	83	-	91	
	NO.	200	-	80	-	88	
LIQUID LIMIT	-	23	-	22	-	28	
PLASTICITY INDEX	-	7	-	7	-	9	
AASHTO SOIL	-	A-4 (3)	-	A-4 (2)	-	A-4 (7)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	16.4	-	18.3	-	23.2	
ACHMSC	(IN)	-	5.5W	-	5.5W	-	-----
ACHMBC	(IN)	-	2.0	-	-----	-	-----
AGG.BASE CRS, CL-5	(IN)	-	-----	-	3.0	-	-----
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 10
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133099	- 20133100	- 20133101
SAMPLE ID	- S1354	- S1355	- S1356
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 192+00	- 192+00	- 192+00
LOCATION	- CL	- 20' RT	- 34' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 7.50	- 33 08 7.30	- 33 8 7.10
LONGITUDE DEG-MIN-SEC	- 91 53 25.20	- 91 53 25.20	- 91 53 25.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	-
	3/8 IN. -	- 97	- 100
	NO. 4 -	- 95	- 99
	NO. 10 -	- 92	- 95
	NO. 40 -	- 84	- 86
	NO. 80 -	- 74	- 74
	NO. 200 -	- 71	- 70
LIQUID LIMIT	- 40	- 31	- 26
PLASTICITY INDEX	- 19	- 15	- 12
AASHTO SOIL	- A-6(19)	- A-6(8)	- A-6(6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 25.5	- 18.0	- 19.5
ACHMSC	(IN) - -----	- 3.5W	- 5.75W
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 11
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133102	- 20133103	- 20133104
SAMPLE ID	- S1357	- S1358	- S1359
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 200+00	- 200+00	- 200+00
LOCATION	- 10' RT	- 19' RT	- CL
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 7.10	- 33 08 7.00	- 33 8 7.20
LONGITUDE DEG-MIN-SEC	- 91 53 16.00	- 91 53 16.00	- 91 53 16.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 99	- 98	- 99
	NO. 10 - 95	- 93	- 98
	NO. 40 - 83	- 83	- 95
	NO. 80 - 70	- 71	- 93
	NO. 200 - 61	- 63	- 89
LIQUID LIMIT	- 23	- 21	- 31
PLASTICITY INDEX	- 8	- 5	- 12
AASHTO SOIL	- A-4 (2)	- A-4 (1)	- A-6 (10)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.9	- 20.2	- 20.0
ACHMSC (IN)	- 4.0W	- 5.75W	- -----
AGG.BASE CRS, CL-5 (IN)	- 3.0	- -----	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 12
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133105	- 20133106	- 20133107
SAMPLE ID	- S1360	- S1361	- S1362
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 207+00	- 207+00	- 207+00
LOCATION	- 26'RT	- 35'RT	- 45'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 6.60	- 33 08 6.60	- 33 8 6.50
LONGITUDE DEG-MIN-SEC	- 91 53 7.80	- 91 53 7.80	- 91 53 7.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	- 100
	NO. 4 - 100	- 100	- 99
	NO. 10 - 99	- 98	- 98
	NO. 40 - 96	- 95	- 96
	NO. 80 - 93	- 92	- 79
	NO. 200 - 88	- 84	- 57
LIQUID LIMIT	- 28	- 27	- 18
PLASTICITY INDEX	- 13	- 11	- 4
AASHTO SOIL	- A-6(10)	- A-6(7)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.1	- 15.7	- 18.2
ACHMSC	(IN) - 2.0	- 6.25W	- -----
ACHMBC	(IN) - 2.0	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 2.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	-	08/06/13	SEQUENCE NO.	-	13		
JOB NUMBER	-	020534	MATERIAL CODE	-	SSRVPS		
FEDERAL AID NO.	-	TO BE ASSIGNED	SPEC. YEAR	-	2003		
PURPOSE	-	SOIL SURVEY SAMPLE	SUPPLIER ID.	-	1		
SPEC. REMARKS	-	NO SPECIFICATION CHECK	COUNTY/STATE	-	02		
SUPPLIER NAME	-	STATE	DISTRICT NO.	-	02		
NAME OF PROJECT	-	CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)					
PROJECT ENGINEER	-	NOT APPLICABLE					
PIT/QUARRY	-	ARKANSAS					
LOCATION	-	ASHLEY COUNTY	DATE SAMPLED	-	06/18/13		
SAMPLED BY	-	FAULKNER/BOUGHNER	DATE RECEIVED	-	06/20/13		
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	08/05/13		
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS					
LAB NUMBER	-	20133108	-	20133109	-	20133110	
SAMPLE ID	-	S1363	-	S1364	-	S1365	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	216+00	-	216+00	-	216+00	
LOCATION	-	5'RT	-	5'LT	-	15'RT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BR/GR	-	BR/GR	-	BR/GR	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	33 8 6.40	-	33 08 6.50	-	33 8 6.70	
LONGITUDE DEG-MIN-SEC	-	91 52 56.80	-	91 52 56.80	-	91 52 56.80	
% PASSING	2	IN.	-	-	-	-	
	1 1/2	IN.	-	-	-	-	
	3/4	IN.	-	100	-	-	
	3/8	IN.	-	99	-	100	
	NO.	4	-	99	-	98	
	NO.	10	-	97	-	95	
	NO.	40	-	95	-	91	
	NO.	80	-	93	-	85	
	NO.	200	-	89	-	78	
			-	84	-		
LIQUID LIMIT	-	28	-	27	-	30	
PLASTICITY INDEX	-	15	-	13	-	18	
AASHTO SOIL	-	A-6(9)	-	A-6(9)	-	A-6(11)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	16.3	-	17.1	-	17.7	
ACHMSC	(IN)	-	5.75W	-	4.0	-	-----
AGG.BASE CRS, CL-5	(IN)	-	-----	-	3.0	-	-----
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 14
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425 (EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133111	- 20133112	- 20133113
SAMPLE ID	- S1366	- S1367	- S1368
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 224+00	- 224+00	- 224+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 6.00	- 33 08 5.90	- 33 8 5.80
LONGITUDE DEG-MIN-SEC	- 91 52 47.40	- 91 52 47.40	- 91 52 47.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	-	-
	NO. 4 - 99	- 100	-
	NO. 10 - 96	- 99	-
	NO. 40 - 92	- 96	-
	NO. 80 - 89	- 91	- 100
	NO. 200 - 84	- 85	- 91
LIQUID LIMIT	- 24	- 28	- 27
PLASTICITY INDEX	- 10	- 13	- 11
AASHTO SOIL	- A-4 (6)	- A-6 (9)	- A-6 (8)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.7	- 16.4	- 21.1
ACHMSC	(IN) - 4.5	- 5.5W	- -----
ACHMBC	(IN) - 3.75	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 4.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
- W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 15
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133114	- 20133115	- 20133116
SAMPLE ID	- S1369	- S1370	- S1371
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 232+00	- 232+00	- 232+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 5.80	- 33 08 5.90	- 33 8 6.00
LONGITUDE DEG-MIN-SEC	- 91 52 37.80	- 91 52 37.80	- 91 52 37.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 93	- 97	-
	NO. 10 - 89	- 93	-
	NO. 40 - 81	- 87	-
	NO. 80 - 72	- 80	- 100
	NO. 200 - 68	- 76	- 92
LIQUID LIMIT	- 23	- 26	- 30
PLASTICITY INDEX	- 7	- 11	- 10
AASHTO SOIL	- A-4 (2)	- A-6 (6)	- A-4 (9)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.4	- 19.2	- 26.1
ACHMSC (IN)	- 4.5	- 5.5W	- ----
ACHMBC (IN)	- 3.75	- ----	- ----
AGG.BASE CRS, CL-5 (IN)	- ----	- 4.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 16
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133117	- 20133118	- 20133119
SAMPLE ID	- S1372	- S1373	- S1374
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 240+00	- 240+00	- 240+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 5.40	- 33 08 5.30	- 33 8 5.20
LONGITUDE DEG-MIN-SEC	- 91 52 28.40	- 91 52 28.40	- 91 52 28.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	-
	3/8 IN. -	- 99	- 100
	NO. 4 -	- 99	- 98
	NO. 10 -	- 95	- 94
	NO. 40 -	- 88	- 86
	NO. 80 -	- 82	- 80
	NO. 200 -	- 79	- 76
LIQUID LIMIT	- 24	- 25	- 27
PLASTICITY INDEX	- 7	- 7	- 8
AASHTO SOIL	- A-4 (3)	- A-4 (3)	- A-4 (5)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.5	- 20.4	- 21.4
ACHMSC	(IN) - 4.0W	- 4.75W	- -----
ACHMBC	(IN) - 2.25	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 3.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 17
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133120	- 20133121	- 20133122
SAMPLE ID	- S1375	- S1376	- S1377
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 248+00	- 248+00	- 248+00
LOCATION	- 6'LT	- 15'LT	- 25'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.90	- 33 08 5.00	- 33 8 5.10
LONGITUDE DEG-MIN-SEC	- 91 52 19.20	- 91 52 19.20	- 91 52 19.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 96	- 99	- 98
	NO. 10 - 91	- 97	- 95
	NO. 40 - 82	- 93	- 92
	NO. 80 - 74	- 89	- 89
	NO. 200 - 70	- 85	- 87
LIQUID LIMIT	- 24	- 23	- 27
PLASTICITY INDEX	- 8	- 7	- 12
AASHTO SOIL	- A-4 (3)	- A-4 (4)	- A-6 (8)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.8	- 17.8	- 21.0
ACHMSC (IN)	- 3.5W	- 4.0W	- ----
ACHMBC (IN)	- 2.5	- ----	- ----
AGG.BASE CRS, CL-5 (IN)	- ----	- 5.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 18
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133123	- 20133124	- 20133125
SAMPLE ID	- S1378	- S1379	- S1380
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 256+00	- 256+00	- 256+00
LOCATION	- 18'RT	- 28'RT	- 38'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.90	- 33 08 4.80	- 33 8 4.70
LONGITUDE DEG-MIN-SEC	- 91 52 19.20	- 91 52 9.80	- 91 52 9.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	- 100
	NO. 4 -	- 97	- 99
	NO. 10 -	- 95	- 98
	NO. 40 -	- 93	- 95
	NO. 80 - 100	- 88	- 94
	NO. 200 - 92	- 87	- 87
LIQUID LIMIT	- 23	- 22	- 24
PLASTICITY INDEX	- 8	- 7	- 9
AASHTO SOIL	- A-4 (5)	- A-4 (4)	- A-4 (6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.4	- 19.4	- 22.0
ACHMSC	(IN) - 4.0W	- 4.0W	- -----
ACHMBC	(IN) - 2.5	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 5.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 19
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133126	- 20133127	- 20133128
SAMPLE ID	- S1381	- S1382	- S1383
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 265+00	- 265+00	- 265+00
LOCATION	- 6' RT	- 4' LT	- 14' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.80	- 33 08 4.90	- 33 8 5.00
LONGITUDE DEG-MIN-SEC	- 91 51 59.00	- 91 51 59.00	- 91 51 59.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. -	99	-
	NO. 4 -	97	-
	NO. 10 -	94	-
	NO. 40 -	90	-
	NO. 80 -	84	-
	NO. 200 -	83	-
LIQUID LIMIT	- 23	- 26	- 21
PLASTICITY INDEX	- 10	- 12	- 6
AASHTO SOIL	- A-4 (6)	- A-6 (7)	- A-4 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.0	- 17.7	- 19.5
ACHMSC	(IN) - 6.0W	- 6.5W	- -----
ACHMBC	(IN) - 1.75	- -----	- -----
AGG.BASE CRS, CL-5	(IN) -----	- 4.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 20
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133129	- 20133130	- 20133131
SAMPLE ID	- S1384	- S1385	- S1386
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 272+00	- 272+00	- 272+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.50	- 33 08 4.00	- 33 8 4.30
LONGITUDE DEG-MIN-SEC	- 91 51 50.80	- 91 51 50.80	- 91 51 50.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	-
	NO. 4 -	- 99	-
	NO. 10 -	- 97	-
	NO. 40 -	- 92	-
	NO. 80 - 100	- 86	- 100
	NO. 200 - 93	- 81	- 93
LIQUID LIMIT	- 26	- 26	- 32
PLASTICITY INDEX	- 12	- 11	- 17
AASHTO SOIL	- A-6 (9)	- A-6 (7)	- A-6 (15)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.6	- 20.2	- 21.0
ACHMSC	(IN) - 5.0W	- 6.5W	- -----
ACHMSC	(IN) - 3.0X	- -----	- -----
ACHMBC	(IN) - 1.75	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 4.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 21
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133132	- 20133133	- 20133134
SAMPLE ID	- S1387	- S1388	- S1389
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 280+00	- 280+00	- 280+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.40	- 33 08 4.60	- 33 8 4.70
LONGITUDE DEG-MIN-SEC	- 91 51 41.20	- 91 51 41.20	- 91 51 41.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 99	- 99	-
	NO. 10 - 98	- 95	-
	NO. 40 - 92	- 90	-
	NO. 80 - 84	- 84	- 100
	NO. 200 - 79	- 77	- 90
LIQUID LIMIT	- 27	- 22	- 29
PLASTICITY INDEX	- 12	- 5	- 10
AASHTO SOIL	- A-6 (7)	- A-4 (2)	- A-4 (8)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.4	- 18.9	- 24.3
ACHMSC	(IN) - 5.5W	- 4.75W	- -----
ACHMBC	(IN) - 2.0	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 5.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 22
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133135	- 20133136	- 20133137
SAMPLE ID	- S1390	- S1391	- S1392
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 288+00	- 288+00	- 288+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.20	- 33 08 4.10	- 33 8 4.00
LONGITUDE DEG-MIN-SEC	- 91 51 32.00	- 91 51 32.00	- 91 51 32.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 99	- 99	-
	NO. 10 - 99	- 97	-
	NO. 40 - 96	- 94	-
	NO. 80 - 91	- 91	- 100
	NO. 200 - 87	- 87	- 91
LIQUID LIMIT	- 27	- 27	- 36
PLASTICITY INDEX	- 9	- 8	- 17
AASHTO SOIL	- A-4 (6)	- A-4 (6)	- A-6 (15)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.6	- 22.2	- 26.3
ACHMSC	(IN) - 5.25	- 4.5W	- -----
ACHMBC	(IN) - 1.75	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 5.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 23
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133138	- 20133139	- 20133140
SAMPLE ID	- S1393	- S1394	- S1395
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 296+00	- 296+00	- 296+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 4.10	- 33 08 4.20	- 33 8 4.30
LONGITUDE DEG-MIN-SEC	- 91 51 22.70	- 91 51 22.70	- 91 51 22.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	-	-
	NO. 4 - 98	-	-
	NO. 10 - 95	-	-
	NO. 40 - 87	-	-
	NO. 80 - 80	- 100	- 100
	NO. 200 - 75	- 91	- 92
LIQUID LIMIT	- 24	- 28	- 28
PLASTICITY INDEX	- 7	- 10	- 9
AASHTO SOIL	- A-4 (3)	- A-4 (8)	- A-4 (7)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.1	- 20.0	- 22.3
ACHMSC	(IN) - 2.5	- 3.5W	- -----
ACHMSC	(IN) - 4.75X	- 4.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 24
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133141	- 20133142	- 20133143
SAMPLE ID	- S1396	- S1397	- S1398
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 304+00	- 304+00	- 304+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.70	- 33 08 3.70	- 33 8 3.60
LONGITUDE DEG-MIN-SEC	- 91 51 13.20	- 91 51 13.10	- 91 51 13.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 99	- 99	- 99
	NO. 10 - 97	- 96	- 97
	NO. 40 - 95	- 92	- 97
	NO. 80 - 92	- 89	- 88
	NO. 200 - 80	- 76	- 79
LIQUID LIMIT	- 26	- 24	- 28
PLASTICITY INDEX	- 10	- 7	- 11
AASHTO SOIL	- A-4 (6)	- A-4 (3)	- A-6 (7)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.2	- 21.7	- 17.6
ACHMSC (IN)	- 4.0W	- 5.25W	- -----
ACHMSC (IN)	- 3.0	- -----	- -----
AGG.BASE CRS, CL-5 (IN)	- -----	- 4.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/07/13	SEQUENCE NO.	- 25
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425 (EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133144	- 20133145	- 20133146
SAMPLE ID	- S1399	- S1400	- S1401
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 312+00	- 312+00	- 312+00
LOCATION	- 6'LT	- 15'LT	- 25'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.70	- 33 08 3.80	- 33 8 3.90
LONGITUDE DEG-MIN-SEC	- 91 51 4.00	- 91 51 3.90	- 91 51 3.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	100	- 100
	NO. 4 -	99	- 97
	NO. 10 -	98	- 95
	NO. 40 -	94	- 93
	NO. 80 -	89	- 91
	NO. 200 -	84	- 86
			92
LIQUID LIMIT	- 27	- 29	- 32
PLASTICITY INDEX	- 11	- 14	- 16
AASHTO SOIL	- A-6(7)	- A-6(10)	- A-6(14)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.2	- 18.1	- 20.1
ACHMSC	(IN) -	4.25W	- -----
ACHMBC	(IN) -	2.0	- -----
SOIL CEMENT	(IN) -	4.0	- -----
AGG.BASE CRS, CL-5	(IN) -	-----	- 4.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 26
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133147	- 20133148	- 20133149
SAMPLE ID	- S1402	- S1403	- S1404
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 320+00	- 320+00	- 320+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.50	- 33 08 3.40	- 33 8 3.30
LONGITUDE DEG-MIN-SEC	- 91 50 54.70	- 91 50 54.60	- 91 50 54.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	-
	NO. 4 -	- 98	-
	NO. 10 -	- 95	-
	NO. 40 -	- 88	-
	NO. 80 -	- 79	- 100
	NO. 200 -	- 71	- 90
LIQUID LIMIT	- 22	- 23	- 27
PLASTICITY INDEX	- 7	- 8	- 9
AASHTO SOIL	- A-4 (3)	- A-4 (3)	- A-4 (7)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.2	- 18.1	- 20.1
ACHMSC	(IN) -	4.25W	- -----
ACHMBC	(IN) -	2.0	- -----
SOIL CEMENT	(IN) -	4.0	- -----
AGG.BASE CRS, CL-5	(IN) -	-----	- 4.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 27
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133150	- 20133151	- 20133152
SAMPLE ID	- S1405	- S1406	- S1407
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 328+00	- 328+00	- 328+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.40	- 33 08 3.70	- 33 8 3.70
LONGITUDE DEG-MIN-SEC	- 91 50 45.30	- 91 50 45.30	- 91 50 45.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 99	- 99	-
	NO. 10 - 97	- 97	-
	NO. 40 - 92	- 93	-
	NO. 80 - 85	- 87	- 100
	NO. 200 - 80	- 82	- 90
LIQUID LIMIT	- 25	- 29	- 31
PLASTICITY INDEX	- 10	- 15	- 14
AASHTO SOIL	- A-4 (6)	- A-6 (10)	- A-6 (12)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.3	- 18.6	- 21.8
ACHMSC	(IN) - 4.0W	- 4.5W	- ----
ACHMBC	(IN) - 2.0X	- ----	- ----
SOIL CEMENT	(IN) - 4.0	- ----	- ----
AGG. BASE CRS, CL-5	(IN) - ----	- 4.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 28
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133153	- 20133154	- 20133155
SAMPLE ID	- S1408	- S1409	- S1410
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 336+00	- 336+00	- 336+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.30	- 33 08 3.20	- 33 8 3.10
LONGITUDE DEG-MIN-SEC	- 91 50 35.50	- 91 50 35.50	- 91 50 35.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	100	-
	NO. 4 -	98	100
	NO. 10 -	95	98
	NO. 40 -	88	96
	NO. 80 -	79	95
	NO. 200 -	71	85
LIQUID LIMIT	- 23	- 24	- 28
PLASTICITY INDEX	- 7	- 8	- 12
AASHTO SOIL	- A-4 (2)	- A-4 (2)	- A-6 (8)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.0	- 16.8	- 20.4
ACHMSC	(IN) -	4.5W	3.75W
ACHMBC	(IN) -	2.5	----
SOIL CEMENT	(IN) -	8.0	----
AGG.BASE CRS, CL-5	(IN) -	-----	10.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 29
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133156	- 20133157	- 20133158
SAMPLE ID	- S1411	- S1412	- S1413
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 344+00	- 344+00	- 344+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.30	- 33 08 3.40	- 33 8 3.50
LONGITUDE DEG-MIN-SEC	- 91 50 26.20	- 91 50 26.20	- 91 50 26.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	-
	3/8 IN. -	- 99	-
	NO. 4 -	- 98	- 99
	NO. 10 -	- 96	- 96
	NO. 40 -	- 92	- 88
	NO. 80 -	- 83	- 79
	NO. 200 -	- 79	- 68
LIQUID LIMIT	- 32	- 23	- 28
PLASTICITY INDEX	- 18	- 7	- 12
AASHTO SOIL	- A-6 (11)	- A-4 (3)	- A-6 (6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.0	- 18.8	- 21.3
ACHMSC	(IN) - 4.25W	- 525W	- ----
ACHMBC	(IN) - 3.75	- ----	- ----
SOIL CEMENT	(IN) - 5.0	- ----	- ----
AGG.BASE CRS, CL-5	(IN) - ----	- 5.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 30
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133159	- 20133160	- 20133161
SAMPLE ID	- S1414	- S1415	- S1416
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 352+00	- 352+00	- 352+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 3.00	- 33 08 2.90	- 33 8 2.80
LONGITUDE DEG-MIN-SEC	- 91 50 16.80	91 50 16.80	91 50 16.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 99	- 99	-
	NO. 10 - 97	- 98	-
	NO. 40 - 92	- 94	-
	NO. 80 - 86	- 89	- 100
	NO. 200 - 81	- 85	92
LIQUID LIMIT	- 27	- 30	- 31
PLASTICITY INDEX	- 13	- 15	- 14
AASHTO SOIL	- A-6 (8)	- A-6 (11)	- A-6 (12)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.2	- 19.7	20.7
ACHMSC	(IN) - 3.0	- 4.75W	- ----
ACHMBC	(IN) - 3.0X	- ----	- ----
SOIL CEMENT	(IN) - 10.0	- ----	- ----
AGG.BASE CRS, CL-5	(IN) -----	- 4.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	-	08/06/13	SEQUENCE NO.	-	31		
JOB NUMBER	-	020534	MATERIAL CODE	-	SSRVPS		
FEDERAL AID NO.	-	TO BE ASSIGNED	SPEC. YEAR	-	2003		
PURPOSE	-	SOIL SURVEY SAMPLE	SUPPLIER ID.	-	1		
SPEC. REMARKS	-	NO SPECIFICATION CHECK	COUNTY/STATE	-	02		
SUPPLIER NAME	-	STATE	DISTRICT NO.	-	02		
NAME OF PROJECT	-	CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)					
PROJECT ENGINEER	-	NOT APPLICABLE					
PIT/QUARRY	-	ARKANSAS					
LOCATION	-	ASHLEY COUNTY	DATE SAMPLED	-	06/18/13		
SAMPLED BY	-	FAULKNER/BOUGHNER	DATE RECEIVED	-	06/20/13		
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	08/05/13		
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS					
LAB NUMBER	-	20133162	-	20133163	-	20133164	
SAMPLE ID	-	S1417	-	S1418	-	S1419	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	360+00	-	360+00	-	360+00	
LOCATION	-	6' LT	-	15' LT	-	25' LT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BROWN	-	GRAY	-	BR/GR	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	33 8 2.90	-	33 08 3.10	-	33 8 3.20	
LONGITUDE DEG-MIN-SEC	-	91 50 7.50	-	91 50 7.40	-	91 50 7.50	
% PASSING	2	IN.	-	-	-	-	
	1 1/2	IN.	-	-	-	-	
	3/4	IN.	-	-	-	-	
	3/8	IN.	-	100	-	100	
	NO.	4	-	99	-	99	
	NO.	10	-	97	-	95	
	NO.	40	-	90	-	89	
	NO.	80	-	85	-	85	
	NO.	200	-	80	-	81	
LIQUID LIMIT	-	24	-	22	-	25	
PLASTICITY INDEX	-	8	-	7	-	7	
AASHTO SOIL	-	A-4 (4)	-	A-4 (2)	-	A-4 (4)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	16.5	-	18.1	-	23.2	
ACHMSC	(IN)	-	5.0W	-	3.75W	-	-----
ACHMBC	(IN)	-	2.25	-	-----	-	-----
SOIL CEMENT	(IN)	-	5.0	-	-----	-	-----
AGG.BASE CRS, CL-5	(IN)	-	-----	-	5.0	-	-----
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 32
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133165	- 20133166	- 20133167
SAMPLE ID	- S1420	- S1421	- S1422
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 368+00	- 368+00	- 368+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 2.60	- 33 08 2.60	- 33 8 2.50
LONGITUDE DEG-MIN-SEC	- 91 49 58.20	- 91 49 58.20	- 91 49 58.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	100
	3/8 IN. -	- 100	- 98
	NO. 4 -	- 98	- 97
	NO. 10 -	- 93	- 95
	NO. 40 -	- 84	- 92
	NO. 80 -	- 76	- 90
	NO. 200 -	- 72	- 89
LIQUID LIMIT	- 24	- 26	- 30
PLASTICITY INDEX	- 7	- 8	- 12
AASHTO SOIL	- A-4 (4)	- A-4 (4)	- A-6 (10)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.2	- 21.5	- 23.5
ACHMSC	(IN) - 4.25W	- 3.25	- -----
ACHMBC	(IN) - 3.0	- -----	- -----
SOIL CEMENT	(IN) - 5.0	- 10.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	-	08/06/13	SEQUENCE NO.	-	33		
JOB NUMBER	-	020534	MATERIAL CODE	-	SSRVPS		
FEDERAL AID NO.	-	TO BE ASSIGNED	SPEC. YEAR	-	2003		
PURPOSE	-	SOIL SURVEY SAMPLE	SUPPLIER ID.	-	1		
SPEC. REMARKS	-	NO SPECIFICATION CHECK	COUNTY/STATE	-	02		
SUPPLIER NAME	-	STATE	DISTRICT NO.	-	02		
NAME OF PROJECT	-	CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)					
PROJECT ENGINEER	-	NOT APPLICABLE					
PIT/QUARRY	-	ARKANSAS					
LOCATION	-	ASHLEY COUNTY	DATE SAMPLED	-	06/18/13		
SAMPLED BY	-	FAULKNER/BOUGHNER	DATE RECEIVED	-	06/20/13		
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	08/05/13		
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS					
LAB NUMBER	-	20133168	-	20133169	-	20133170	
SAMPLE ID	-	S1423	-	S1424	-	S1425	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	375+00	-	375+00	-	375+00	
LOCATION	-	10' RT	-	CL	-	14' LT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BR/GR	-	BR/GR	-	BR/GR	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	33 8 2.70	-	33 08 2.80	-	33 8 3.00	
LONGITUDE DEG-MIN-SEC	-	91 49 48.80	-	91 49 48.80	-	91 49 48.70	
% PASSING	2	IN.	-	-	-	-	
	1 1/2	IN.	-	-	-	-	
	3/4	IN.	-	-	-	-	
	3/8	IN.	-	100	-	-	
	NO.	4	-	98	-	-	
	NO.	10	-	93	-	-	
	NO.	40	-	89	-	-	
	NO.	80	-	82	-	100	
	NO.	200	-	75	-	90	
LIQUID LIMIT	-	24	-	23	-	24	
PLASTICITY INDEX	-	10	-	10	-	9	
AASHTO SOIL	-	A-4 (6)	-	A-4 (5)	-	A-4 (6)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	15.4	-	16.6	-	13.0	
ACHMSC	(IN)	-	5.5W	-	5.25W	-	-----
ACHMBC	(IN)	-	1.5	-	-----	-	-----
SOIL CEMENT	(IN)	-	7.0	-	-----	-	-----
AGG.BASE CRS, CL-5	(IN)	-	-----	-	4.0	-	-----
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 34
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133171	- 20133172	- 20133173
SAMPLE ID	- S1426	- S1427	- S1428
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 384+00	- 384+00	- 384+00
LOCATION	- 17'RT	- 25'RT	- 36'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 2.50	- 33 08 2.40	- 33 8 2.30
LONGITUDE DEG-MIN-SEC	- 91 49 39.50	- 91 49 39.50	- 91 49 39.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	-	-
	NO. 10 - 99	-	-
	NO. 40 - 96	-	-
	NO. 80 - 93	- 100	- 100
	NO. 200 - 89	- 90	- 94
LIQUID LIMIT	- 28	- 25	- 26
PLASTICITY INDEX	- 11	- 10	- 11
AASHTO SOIL	- A-6 (8)	- A-4 (7)	- A-6 (8)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.3	- 17.8	- 16.2
ACHMSC	(IN) - 6.0W	- 5.5W	- -----
ACHMBC	(IN) - 2.75	- -----	- -----
SOIL CEMENT	(IN) - 8.0	- -----	- -----
AGG.BASE CRS, CL-5	(IN) -----	- 10.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION

- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 35
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133174	- 20133175	- 20133176
SAMPLE ID	- S1429	- S1430	- S1431
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 392+00	- 392+00	- 392+00
LOCATION	- 6' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 2.50	- 33 08 2.60	- 33 8 2.70
LONGITUDE DEG-MIN-SEC	- 91 49 30.00	- 91 49 30.00	- 91 49 30.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	- 100	-
	NO. 4 -	- 99	- 100
	NO. 10 -	- 98	- 99
	NO. 40 -	- 95	- 95
	NO. 80 -	- 90	- 89
	NO. 200 -	- 84	- 82
LIQUID LIMIT	- 23	- 25	- 25
PLASTICITY INDEX	- 7	- 10	- 10
AASHTO SOIL	- A-4 (4)	- A-4 (6)	- A-4 (6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.0	- 18.5	- 17.2
ACHMSC	(IN) - 2.0	- 5.0W	- -----
ACHMBC	(IN) - 4.0X	- -----	- -----
SOIL CEMENT	(IN) - 6.0	- -----	- -----
AGG.BASE CRS, CL-5	(IN) - -----	- 5.0	- -----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
 - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

DATE	- 08/06/13	SEQUENCE NO.	- 36
JOB NUMBER	- 020534	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 02
SUPPLIER NAME	- STATE	DISTRICT NO.	- 02
NAME OF PROJECT	- CO.RD.411 - HWY.425(EAST OF CROSSETT) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- ASHLEY COUNTY	DATE SAMPLED	- 06/18/13
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 06/20/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/05/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20133177	- 20133178	- 20133179
SAMPLE ID	- S1432	- S1433	- S1434
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 400+00	- 400+00	- 400+00
LOCATION	- 6' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 8 2.10	- 33 08 2.10	- 33 8 2.00
LONGITUDE DEG-MIN-SEC	- 91 49 20.30	91 49 20.30	91 49 20.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	100	-
	NO. 4 -	98	100
	NO. 10 -	94	99
	NO. 40 -	90	99
	NO. 80 -	85	97
	NO. 200 -	76	87
LIQUID LIMIT	- 22	- 21	- 21
PLASTICITY INDEX	- 8	- 6	- 5
AASHTO SOIL	- A-4 (4)	- A-4 (2)	- A-4 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.2	18.3	17.1
ACHMSC	(IN) -	5.75W	- ----
ACHMBC	(IN) -	2.75	- ----
SOIL CEMENT	(IN) -	6.0	- ----
AGG.BASE CRS, CL-5	(IN) -	-----	10.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF CONSTRUCTION  
- W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

REMARKS - Locations measured From C.L. of construction

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
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\*\*\* SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT \*\*\*

REMARKS - LOCATIONS MEASURED FROM CENTER LINE OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

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REMARKS - LOCATIONS MEASURED FROM CENTER LINE OF CONSTRUCTION

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AASHTO TESTS : T24 T88 T89 T90 T265

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