

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT



**SUBSURFACE INVESTIGATION**

STATE JOB NO. 070364

FEDERAL AID PROJECT NO. HSIP-0010(35)

HWY. 26 – HWY. 8 (REHAB.) (S)

STATE HIGHWAY 51 SECTION 1

IN CLARK 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

December 3, 2012

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

**SUBJECT:** Job No. 070364  
Hwy. 26 – Hwy. 8 (Rehab) (S)  
Route 51 Section 1  
Clark County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of rehabilitating approximately 4.7 miles of Highway 51. Samples were taken in the existing travel lanes, shoulder and ditchline. Since the time of investigation, the alignment of the project has been changed due to environmental concerns. There are three exceptions within the project and this report includes recommendations for the following locations: 500+25 - 599+50, 624+79 – 634+00, 638+29-680+27, and 697+38 – 749+00.

Based on laboratory results of samples obtained, the subgrade soils consist of low to moderately plastic clay with sand and highly plastic clay. The soils are expected to provide a stable working platform with normal drying and compactive efforts if the weather is favorable during construction. In locations where the grade line closely matches that of the existing roadway, and the embankment will extend into the existing ditch line; all soft unstable organic material will need to be undercut prior to embankment construction. Undercut requirements will vary based on seasonal conditions, but is anticipated to be no more than two feet. The undercut areas may be backfilled with locally available material.

The embankments within the project limits do not exceed 15 feet. All soft unstable organic material will need to be undercut prior to embankment construction, anticipated to be no more than two feet. The embankments may be constructed with locally available material utilizing the 3:1 slope configuration demonstrated in the cross-sections.

Based on currently available cross-sections, there are several cut locations within the project limits. The cut between stations 545+00 to 550+00 is approximately 15 feet deep. The slope proposed right of centerline may be steepened to a 2:1 slope configuration. A cut between stations 705+00 to 706+00 is approximately 7 feet deep the cut slopes may be steepened to a 2:1 slope configuration. The remaining proposed cut slopes within the project limits 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 in the vicinity of Jones Mill.
2. Asphalt Concrete Hot Mix

<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	4.1	95.9



Michael C. Benson  
Materials Engineer

MCB:pt:bjj  
Attachment

cc: State Constr. Eng. – Master File Copy  
District 7 Engineer  
Planning Div.  
G. C. File

**JOB:** 070364  
**JOB NAME:** HWY. 26-HWY. 8(REHAB)(S)

**COUNTY NO.** 7

Arkansas State Highway Transportation Department  
 Materials Division  
 Michael Benson, Materials Engineer

**DATE TESTED**  
 11/14/2012

**STA.# LOC.**

**PAVEMENT SOUNDINGS**

505+00	51RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		5.25W	3.75	1.0	7.0
505+00	13RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		3.0	---	---	7.0
505+00	23RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		---	---	---	---
513+00	51LT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		2.0	2.5	2.0	6.0
513+00	251LT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		---	---	---	---
521+00	51RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		1.5	2.0	---	6.0
521+00	251RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		---	---	---	---
529+00	51LT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		3.75	3.5	1.75	7.0
529+00	251LT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		---	---	---	---
537+00	51RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		2.75W	2.5	3.25W	7.0
537+00	251RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		---	---	---	---
545+00	51LT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		1.5	4.0	3.25	9.0
553+00	51RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		1.5	---	---	---
553+00	251RT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		---	---	---	---
560+00	51LT	ACHMSC	ACHMBC	CHIP SEAL	AGG. BASE CRS. CL5
		3.0	3.0	2.0	10.0
560+00	251LT	ACHMSC	ACHMSC	ACHMSC	AGG. BASE CRS. CL5
		---	---	---	---
569+00	51RT	ACHMSC	ACHMSC	ACHMSC	AGG. BASE CRS. CL5
		1.0	2.5X	4.0	10

**Comments:** LOCATIONS MEASURED FROM CL OF EXISTING RD. WAY  
 W=MULTIPLE LAYERS, X=STRIPPED

Monday, November 26, 2012

569+00	25RT	ACHMSC	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
577+00	5LT	ACHMSC	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS. CL5	10.0
		2.5W	2.5	2.0	2.0	AGG.BASE CRS. CL5	---
577+00	25LT	ACHMSC	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
585+00	5RT	ACHMSC	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS. CL5	7.0
		3.0	2.7	1.5	1.5	AGG.BASE CRS. CL5	---
585+00	25RT	ACHMSC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
593+00	5LT	ACHMSC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		6.5	1.5	7.0	7.0	AGG.BASE CRS. CL5	---
593+00	20LT	ACHMSC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
601+00	5RT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	6.0
		4.0X	---	.5	6.0	AGG.BASE CRS. CL5	---
601+00	15RT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	8.0
		.25	3.75	---	8.0	AGG.BASE CRS. CL5	---
601+00	25RT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
609+00	5LT	ACHMSC	ACHMSC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	7.0
		---	4.50	.5	7.0	AGG.BASE CRS. CL5	---
609+00	13LT	ACHMSC	ACHMSC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	6.0
		1.75	---	6.0	6.0	AGG.BASE CRS. CL5	---
609+00	25LT	ACHMSC	ACHMSC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
618+00	5RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		4.0	2.0	6.0	6.0	AGG.BASE CRS. CL5	---
618+00	12RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		4.25	---	6.0	6.0	AGG.BASE CRS. CL5	---
618+00	25RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
625+00	5LT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	7.0
		4.25X	2.25	.50	7.0	AGG.BASE CRS. CL5	---
625+00	25LT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	---
		---	---	---	---	---	---
633+00	5RT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS. CL5	AGG.BASE CRS. CL5	6.0
		2.0	3.0X	2.5	6.0	AGG.BASE CRS. CL5	---

Comments: LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
W=MULTIPLE LAYERS, X=STRIPPED

633+00	25RT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL5
640+00	5LT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL5
640+00	25LT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL5
649+00	5RT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS.CL5
649+00	25LT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS.CL5
657+00	5LT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS.CL5
657+00	25LT	ACHMSC	ACHMBC	AGG.BASE CRS.CL5	
665+00	5RT	ACHMSC	ACHMBC	AGG.BASE CRS.CL5	
665+00	25RT	ACHMSC	ACHMBC	AGG.BASE CRS.CL5	
673+00	5LT	ACHMSC	ACHMBC	AGG.BASE CRS.CL5	
673+00	25LT	ACHMSC	ACHMBC	AGG.BASE CRS.CL5	
681+00	5RT	ACHMSC	ACHMBC	AGG.BASE CRS.CL5	
681+00	15RT	ACHMSC	CHIP SEAL	CHIP SEAL	AGG.BASE CRS.CL5
681+00	25RT	ACHMSC	CHIP SEAL	CHIP SEAL	AGG.BASE CRS.CL5
689+00	5LT	ACHMSC	CHIP SEAL	CHIP SEAL	AGG.BASE CRS.CL5
689+00	15LT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL5
689+00	25LT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL5
697+00	5RT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL5
697+00	25RT	ACHMSC	ACHMBC	CHIP SEAL	AGG.BASE CRS.CL5

Comments: LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
W=MULTIPLE LAYERS, X=STRIPPED

705+00	5LT	ACHMSC 2.5	ACHMBC 4.0	CHIP SEAL 2.0	AGG.BASE CRS.CL5 6.0
713+00	5RT	ACHMSC 3.0	ACHMBC 3.0	CHIP SEAL 2.0	AGG.BASE CRS.CL5 6.0
713+00	25RT	ACHMSC ---	ACHMBC ---	CHIP SEAL ---	AGG.BASE CRS.CL5 ---
722+00	5LT	ACHMSC 2.25	ACHMBC 3.5	CHIP SEAL 2.0	AGG.BASE CRS.CL5 6.0
722+00	25LT	ACHMSC ---	ACHMBC ---	CHIP SEAL ---	AGG.BASE CRS.CL5 ---
729+00	5RT	ACHMSC 3.0	ACHMBC 2.75	CHIP SEAL 1.5	AGG.BASE CRS.CL5 8.0
729+00	25RT	ACHMSC ---	ACHMBC ---	CHIP SEAL ---	AGG.BASE CRS.CL5 ---
737+00	5LT	ACHMSC 3.0	ACHMBC 3.5	CHIP SEAL 1.5	AGG.BASE CRS.CL5 7.0
737+00	25LT	ACHMSC ---	ACHMBC ---	CHIP SEAL ---	AGG.BASE CRS.CL5 ---
745+00	5RT	ACHMSC 1.5	ACHMBC 1.75	CHIP SEAL 2.0	AGG.BASE CRS.CL5 7.0
745+00	25RT	ACHMSC ---	ACHMBC ---	CHIP SEAL ---	AGG.BASE CRS.CL5 ---

**Comments:**

LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 11/16/2012  
JOB NUMBER - 070364

SEQUENCE NO. - 1  
MATERIAL CODE - SSRVPS  
SPEC. YEAR - 2003  
SUPPLIER ID. - 1  
COUNTY/STATE - 07  
DISTRICT NO. - 07

JOB NAME - HWY. 26-HWY.8 (REHAB) (S)

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

BEGIN JOB - END JOB	16
RESILIENT MODULUS	
STA.513+00	11396
STA.585+00	7668
STA.609+00	7952
STA.681+00	7987
STA.729+00	9523

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REMARKS -

-  
AASHTO TESTS : T190



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

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

<b>Job No.</b>	070364	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	11/8/12	<b>Station No.:</b>	513+00
<b>Date Tested:</b>	November 9, 2012	<b>Location:</b>	25'LT.CL
<b>Name of Project:</b>	HWY 26 - HWY 8 (REHAB)(S)		
<b>County:</b>	<b>Code:</b> 10	<b>Name:</b>	CLARK
<b>Sampled By:</b>	FAULKNER	<b>Depth:</b>	0-5'
<b>Lab No.:</b>	20123348	<b>AASHTO Class:</b>	A-6(7)
<b>Sample ID:</b>	RV1212	<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	3.99
Middle	3.97
Bottom	3.99
Average	3.98
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	8.01
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.01
Initial Area, Ao (sq. in):	12.46
Initial Volume, AoLo (cu. in):	99.82

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	2992.10
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**4. Soil Properties:**

Optimum Moisture Content (%):	19.6
Maximum Dry Density (pcf):	99
95% of MDD (pcf):	94.1
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	2992.10
Compaction Moisture content (%):	19.8
Compaction Wet Density (pcf):	114.21
Compaction Dry Density (pcf):	95.34
Moisture Content After Mr Test (%):	19.6

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

**7. Resilient Modulus, Mr:** 13735(Sc)<sup>-0.12540</sup>(S3)<sup>0.13592</sup>

**8. Comments**

\_\_\_\_\_

\_\_\_\_\_

**9. Tested By:** RC/AD

**Date:** November 9, 2012

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

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

**Job No.** 070364 **Material Code** SSRVPS  
**Date Sampled:** 11/8/12 **Station No.:** 513+00  
**Date Tested:** November 9, 2012 **Location:** 25'LT.CL  
**Name of Project:** HWY 26 - HWY 8 (REHAB)(S)  
**County:** Code: 10 **Name:** CLARK  
**Sampled By:** FAULKNER **Depth:** 0-5'  
**Lab No.:** 20123348 **AASHTO Class:** A-6(7)  
**Sample ID:** RV1212 **Material Type (1 or 2):** 2  
**LATITUDE:** **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied		Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Cyclic Stress	Average Recov Def LVD1 and 2	Resilient Strain	Resilient Modulus
			Max. Axial Load	Cyclic Load							
DESIGNATION	S <sub>3</sub>	S <sub>cyclic</sub>	P <sub>max</sub>	P <sub>cyclic</sub>	P <sub>contact</sub>	S <sub>max</sub>	S <sub>cyclic</sub>	S <sub>contact</sub>	H <sub>avg</sub>	ε <sub>r</sub>	M <sub>r</sub>
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.6	22.8	2.9	2.1	1.8	0.2	0.0091	0.00011	16,142
Sequence 2	6.0	4.0	48.0	45.1	2.9	3.9	3.6	0.2	0.00184	0.00023	15,759
Sequence 3	6.0	6.0	70.9	67.0	3.9	5.7	5.4	0.3	0.00289	0.00036	14,898
Sequence 4	6.0	8.0	94.7	88.3	6.4	7.6	7.1	0.5	0.00417	0.00052	13,595
Sequence 5	6.0	10.0	117.3	108.4	8.9	9.4	8.7	0.7	0.00561	0.00070	12,425
Sequence 6	4.0	2.0	25.4	22.6	2.9	2.0	1.8	0.2	0.00098	0.00012	14,780
Sequence 7	4.0	4.0	47.6	44.7	2.9	3.8	3.6	0.2	0.00199	0.00025	14,412
Sequence 8	4.0	6.0	69.5	66.6	3.0	5.6	5.3	0.2	0.00311	0.00039	13,772
Sequence 9	4.0	8.0	93.4	87.9	5.5	7.5	7.1	0.4	0.00433	0.00054	13,038
Sequence 10	4.0	10.0	116.5	108.6	7.9	9.4	8.7	0.6	0.00572	0.00071	12,206
Sequence 11	2.0	2.0	25.4	22.5	2.8	2.0	1.8	0.2	0.00107	0.00013	13,486
Sequence 12	2.0	4.0	47.4	44.6	2.8	3.8	3.6	0.2	0.00218	0.00027	13,143
Sequence 13	2.0	6.0	69.2	66.3	2.9	5.5	5.3	0.2	0.00340	0.00042	12,513
Sequence 14	2.0	8.0	91.9	87.3	4.6	7.4	7.0	0.4	0.00468	0.00058	11,996
Sequence 15	2.0	10.0	114.9	107.8	7.1	9.2	8.7	0.6	0.00608	0.00076	11,396

TESTED BY \_\_\_\_\_ DATE November 9, 2012  
 REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_

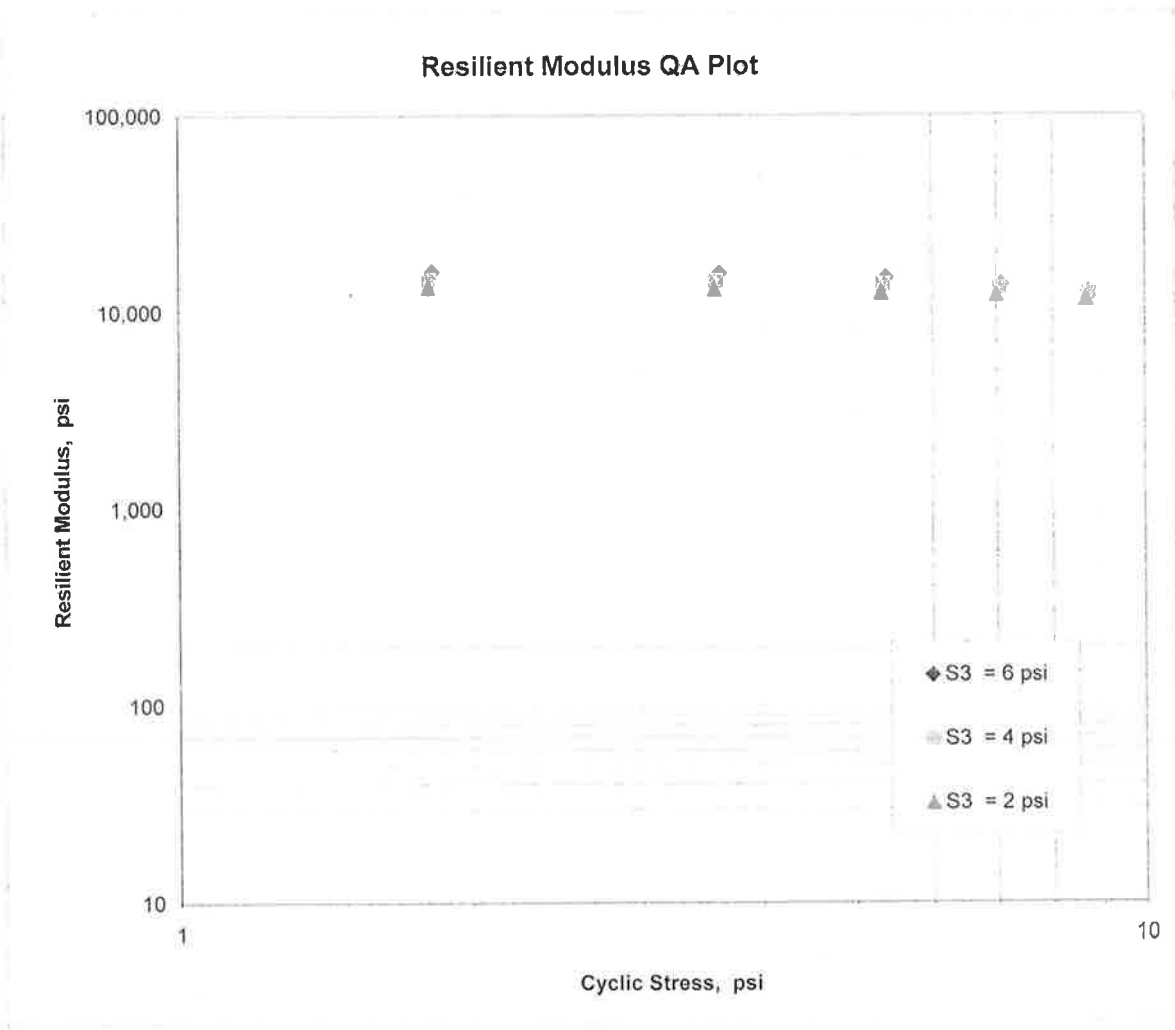
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION**

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

<b>Job No.</b>	070364	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	11/8/12	<b>Station No.:</b>	513+00
<b>Date Tested:</b>	November 9, 2012	<b>Location:</b>	25'LT.CL
<b>Name of Project:</b>	HWY 26 - HWY 8 (REHAB)(S)		
<b>County:</b>	<b>Code:</b> 10	<b>Name:</b>	CLARK
<b>Sampled By:</b>	FAULKNER		
<b>Lab No.:</b>	20123348	<b>Depth:</b>	0-5'
<b>Sample ID:</b>	RV1212	<b>AASHTO Class:</b>	A-6(7)
<b>LATITUDE:</b>		<b>Material Type (1 or 2):</b>	2
		<b>LONGITUDE:</b>	

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

$K_1 = \underline{13,735}$   
 $K_2 = \underline{-0.12540}$   
 $K_5 = \underline{0.13592}$   
 $R^2 = \underline{0.88}$



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

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

<b>Job No.</b>	070364	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	11/8/12	<b>Station No.:</b>	585+00
<b>Date Tested:</b>	November 9, 2012	<b>Location:</b>	25'RT.CL
<b>Name of Project:</b>	HWY 26 - HWY 8 (REHAB)(S)		
<b>County:</b>	<b>Code:</b> 10	<b>Name:</b>	CLARK
<b>Sampled By:</b>	FAULKNER	<b>Depth:</b>	0-5'
<b>Lab No.:</b>	20123349	<b>AASHTO Class:</b>	A-2-4 (0)
<b>Sample ID:</b>	RV1213	<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	3.99
Middle	3.99
Bottom	4.00
Average	3.99
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	8.01
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.01
Initial Area, Ao (sq. in):	12.52
Initial Volume, AoLo (cu. in):	100.32

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3134.70
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**4. Soil Properties:**

Optimum Moisture Content (%):	14.9
Maximum Dry Density (pcf):	108.1
95% of MDD (pcf):	102.7
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3134.70
Compaction Moisture content (%):	14.7
Compaction Wet Density (pcf):	119.06
Compaction Dry Density (pcf):	103.80
Moisture Content After Mr Test (%):	14.7

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

#VALUE!

**7. Resilient Modulus, Mr:**

7807(Sc)<sup>-0.15427</sup>(S3)<sup>0.43229</sup>

**8. Comments**

\_\_\_\_\_

\_\_\_\_\_

**9. Tested By:**

RC/AD \_\_\_\_\_

**Date:** November 9, 2012 \_\_\_\_\_

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

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

Job No. 070364 Material Code SSRVPS  
 Date Sampled: 11/8/12 Station No.: 585+00  
 Date Tested: November 9, 2012 Location: 25 RT.CL  
 Name of Project: HWY 26 - HWY 8 (REHAB)(S) Depth: 0-5'  
 County: Code: 10 Name: CLARK AASHTO Class: A-2-4 (0)  
 Sampled By: FAULKNER Material Type (1 or 2): 2  
 Lab No.: 20123349 LONGITUDE:  
 Sample ID: RV1213

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		Resilient Modulus	
		S <sub>3</sub> psi	S <sub>cyclic</sub> psi	P <sub>max</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>contact</sub> lbs	S <sub>max</sub> psi	S <sub>cyclic</sub> psi	S <sub>contact</sub> psi	H <sub>avg</sub> in	ε <sub>r</sub> in/in	M <sub>r</sub> psi									
Sequence 1	6.0	2.0	25.5	23.0	2.6	2.0	1.8	0.2	0.00095	0.00012	15,427										
Sequence 2	6.0	4.0	48.3	45.7	2.6	3.9	3.7	0.2	0.00199	0.00025	14,711										
Sequence 3	6.0	6.0	71.4	67.8	3.7	5.7	5.4	0.3	0.00313	0.00039	13,844										
Sequence 4	6.0	8.0	95.6	89.4	6.2	7.6	7.1	0.5	0.00459	0.00057	12,461										
Sequence 5	6.0	10.0	118.6	109.8	8.8	9.5	8.8	0.7	0.00615	0.00077	11,406										
Sequence 6	4.0	2.0	25.5	22.9	2.6	2.0	1.8	0.2	0.00118	0.00015	12,361										
Sequence 7	4.0	4.0	47.7	45.0	2.7	3.8	3.6	0.2	0.00247	0.00031	11,674										
Sequence 8	4.0	6.0	69.4	66.4	3.0	5.5	5.3	0.2	0.00391	0.00049	10,876										
Sequence 9	4.0	8.0	93.2	87.7	5.5	7.4	7.0	0.4	0.00532	0.00066	10,550										
Sequence 10	4.0	10.0	116.4	108.3	8.1	9.3	8.6	0.6	0.00700	0.00087	9,894										
Sequence 11	2.0	2.0	25.0	22.3	2.7	2.0	1.8	0.2	0.00149	0.00019	9,555										
Sequence 12	2.0	4.0	46.3	43.6	2.7	3.7	3.5	0.2	0.00320	0.00040	8,699										
Sequence 13	2.0	6.0	67.3	64.7	2.7	5.4	5.2	0.2	0.00497	0.00062	8,314										
Sequence 14	2.0	8.0	89.4	84.7	4.7	7.1	6.8	0.4	0.00681	0.00085	7,948										
Sequence 15	2.0	10.0	111.6	104.4	7.2	8.9	8.3	0.6	0.00870	0.00109	7,668										

TESTED BY \_\_\_\_\_ DATE November 9, 2012  
 REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_

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

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

<b>Job No.</b>	070364	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	11/8/12	<b>Station No.:</b>	585+00
<b>Date Tested:</b>	November 9, 2012	<b>Location:</b>	25'RT.CL
<b>Name of Project:</b>	HWY 26 - HWY 8 (REHAB)(S)		
<b>County:</b>	<b>Code:</b> 10	<b>Name:</b>	CLARK
<b>Sampled By:</b>	FAULKNER		
<b>Lab No.:</b>	20123349	<b>Depth:</b>	0-5'
<b>Sample ID:</b>	RV1213	<b>AASHTO Class:</b>	A-2-4 (0)
<b>LATITUDE:</b>		<b>Material Type (1 or 2):</b>	2
		<b>LONGITUDE:</b>	

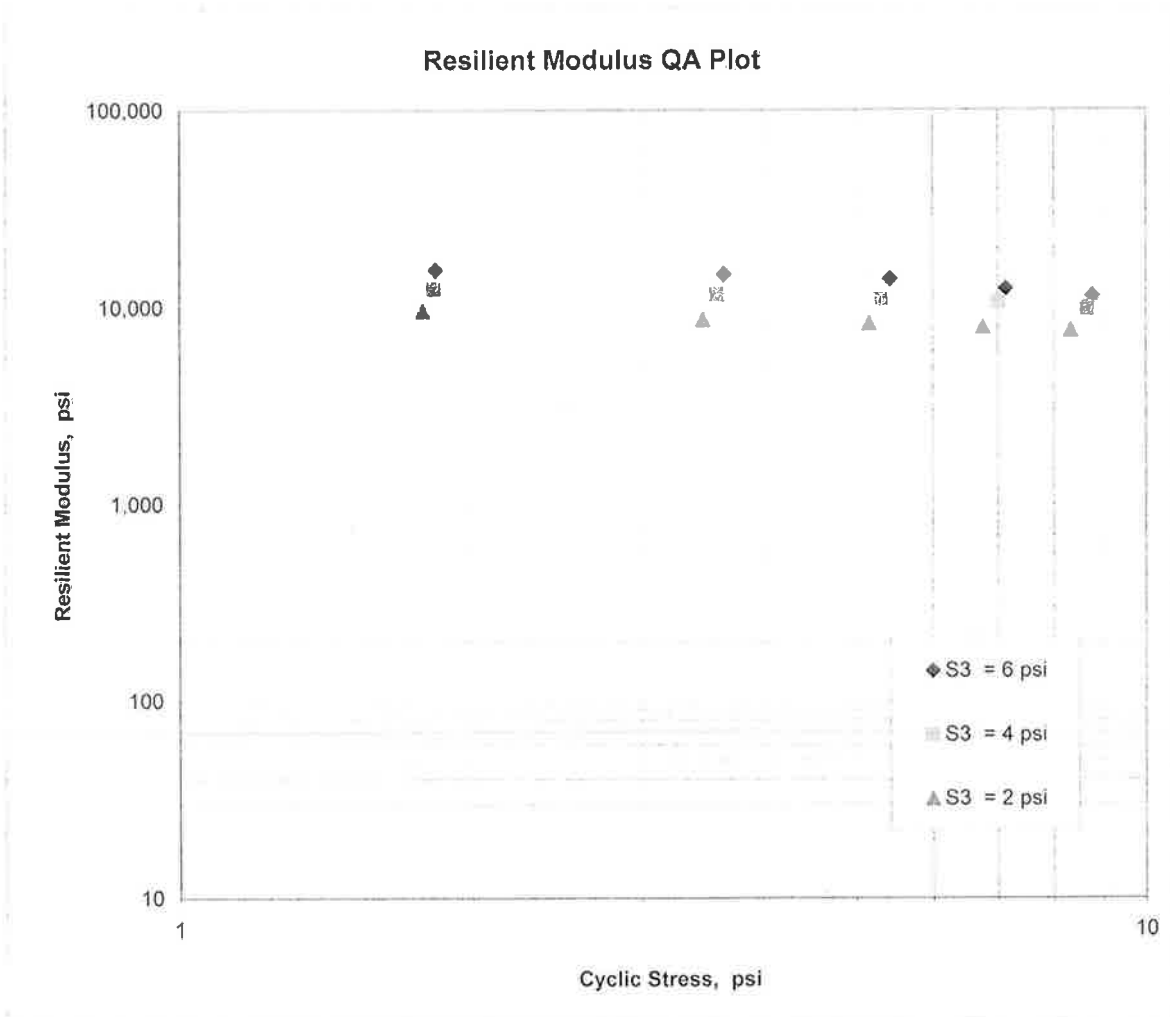
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = 7,807$$

$$K_2 = -0.15427$$

$$K_5 = 0.43229$$

$$R^2 = 0.98$$



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

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

<b>Job No.</b>	070364	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	11/8/12	<b>Station No.:</b>	609+00
<b>Date Tested:</b>	November 9, 2012	<b>Location:</b>	40'RT,CL
<b>Name of Project:</b>	HWY 26 - HWY 8 (REHAB)(S)		
<b>County:</b>	<b>Code:</b> 10	<b>Name:</b> CLARK	
<b>Sampled By:</b>	FAULKNER	<b>Depth:</b>	0-5'
<b>Lab No.:</b>	20123350	<b>AASHTO Class:</b>	A-4 (0)
<b>Sample ID:</b>	RV1214	<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	3.97
Middle	4.00
Bottom	3.99
Average	3.99
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	7.98
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	7.98
Initial Area, Ao (sq. in):	12.48
Initial Volume, AoLo (cu. in):	99.61

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3279.70
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**4. Soil Properties:**

Optimum Moisture Content (%):	13.5
Maximum Dry Density (pcf):	112.5
95% of MDD (pcf):	106.9
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3279.70
Compaction Moisture content (%):	14.2
Compaction Wet Density (pcf):	125.45
Compaction Dry Density (pcf):	109.85
Moisture Content After Mr Test (%):	14.2

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

#VALUE!

**7. Resilient Modulus, Mr:**

8273(S<sub>c</sub>)<sup>-0.14208</sup>(S<sub>3</sub>)<sup>0.34310</sup>

**8. Comments**

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**9. Tested By:**

RC/AD

**Date:** November 9, 2012

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

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

Job No. 070364 Material Code SSRVPS  
 Date Sampled: 11/8/12 Station No.: 609+00  
 Date Tested: November 9, 2012 Location: 40'RT.CL  
 Name of Project: HWY 26 - HWY 8 (REHAB)(S)  
 County: Code: 10 Name: CLARK  
 Sampled By: FAULKNER Depth: 0-5'  
 Lab No.: 20123350 AASHTO Class: A-4 (0)  
 Sample ID: RV1214 Material Type (1 or 2): 2  
 LATITUDE: LONGITUDE:

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied		Actual Applied		Actual Applied		Actual Applied		Average Recov Def.		Resilient Strain	Resilient Modulus
			Max. Axial Load	Load	Max. Axial Load	Load	Max. Axial Stress	Stress	Max. Axial Load	Load	Max. Axial Stress	Stress		
DESIGNATION	S <sub>3</sub>	S <sub>cyclic</sub>	P <sub>max</sub>	P <sub>cyclic</sub>	P <sub>contact</sub>	S <sub>max</sub>	S <sub>cyclic</sub>	S <sub>contact</sub>	H <sub>avg</sub>	ε <sub>r</sub>	M <sub>r</sub>	psi	in/in	psi
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in					
Sequence 1	6.0	2.0	25.7	23.2	2.4	2.1	1.9	0.2	0.00103	0.00013	14,365			
Sequence 2	6.0	4.0	47.8	45.3	2.5	3.8	3.6	0.2	0.00216	0.00027	13,400			
Sequence 3	6.0	6.0	70.7	66.9	3.8	5.7	5.4	0.3	0.00346	0.00043	12,353			
Sequence 4	6.0	8.0	94.3	88.0	6.2	7.6	7.1	0.5	0.00496	0.00062	11,349			
Sequence 5	6.0	10.0	117.8	108.9	8.8	9.4	8.7	0.7	0.00655	0.00082	10,632			
Sequence 6	4.0	2.0	25.2	22.5	2.7	2.0	1.8	0.2	0.00121	0.00015	11,895			
Sequence 7	4.0	4.0	47.4	44.7	2.7	3.8	3.6	0.2	0.00253	0.00032	11,303			
Sequence 8	4.0	6.0	69.0	66.2	2.8	5.5	5.3	0.2	0.00405	0.00051	10,444			
Sequence 9	4.0	8.0	93.0	87.7	5.4	7.5	7.0	0.4	0.00558	0.00070	10,049			
Sequence 10	4.0	10.0	116.1	108.2	7.9	9.3	8.7	0.6	0.00717	0.00090	9,638			
Sequence 11	2.0	2.0	25.1	22.4	2.6	2.0	1.8	0.2	0.00154	0.00019	9,334			
Sequence 12	2.0	4.0	46.4	43.7	2.7	3.7	3.5	0.2	0.00326	0.00041	8,584			
Sequence 13	2.0	6.0	67.7	65.0	2.8	5.4	5.2	0.2	0.00490	0.00061	8,477			
Sequence 14	2.0	8.0	90.3	85.7	4.6	7.2	6.9	0.4	0.00672	0.00084	8,159			
Sequence 15	2.0	10.0	113.7	106.6	7.1	9.1	8.5	0.6	0.00857	0.00107	7,952			

TESTED BY \_\_\_\_\_ RC/AD \_\_\_\_\_ DATE November 9, 2012  
 REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_



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

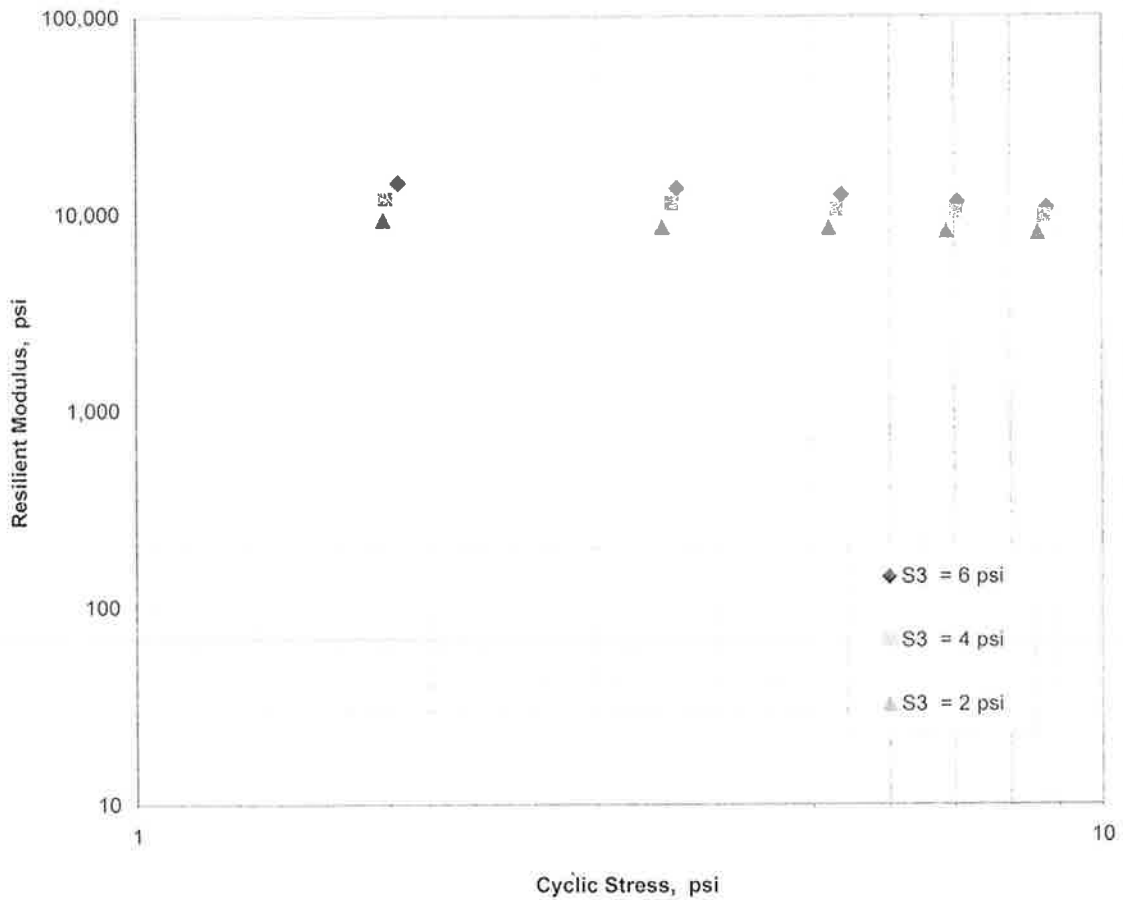
**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS  
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	070364	Material Code	SSRVPS
Date Sampled:	11/8/12	Station No.:	609+00
Date Tested:	November 9, 2012	Location:	40'RT.CL
Name of Project:	HWY 26 - HWY 8 (REHAB)(S)		
County:	Code: 10	Name:	CLARK
Sampled By:	FAULKNER	Depth:	0-5'
Lab No.:	20123350	AASHTO Class:	A-4 (0)
Sample ID:	RV1214	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 = 8,273$   
 $K_2 = -0.14208$   
 $K_5 = 0.34310$   
 $R^2 = 0.97$

**Resilient Modulus QA Plot**



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

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

<b>Job No.</b>	070364	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	10/24/12	<b>Station No.:</b>	681+00
<b>Date Tested:</b>	November 14, 2012	<b>Location:</b>	35'RTCL
<b>Name of Project:</b>	HWY26-HWY8 (REHAB)(S)		
<b>County:</b>	<b>Code:</b> 10	<b>Name:</b>	CLARK
<b>Sampled By:</b>		<b>Depth:</b>	0-5
<b>Lab No.:</b>	20123350	<b>AASHTO Class:</b>	A-7-6(12)
<b>Sample ID:</b>	RV1215	<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	3.97
Bottom	3.97
Average	3.97
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.07
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.07
Initial Area, Ao (sq. in):	12.29
Initial Volume, AoLo (cu. in):	99.18

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3021.90
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**4. Soil Properties:**

Optimum Moisture Content (%):	19.0
Maximum Dry Density (pcf):	101.5
95% of MDD (pcf):	96.4
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3021.90
Compaction Moisture content (%):	18.9
Compaction Wet Density (pcf):	116.10
Compaction Dry Density (pcf):	97.64
Moisture Content After Mr Test (%):	18.8

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

#VALUE!

**7. Resilient Modulus, Mr:**

9642(Sc)<sup>-0.16985</sup>(S3)<sup>0.25008</sup>

**8. Comments**

\_\_\_\_\_

\_\_\_\_\_

**9. Tested By:**

AD \_\_\_\_\_

**Date:** November 14, 2012 \_\_\_\_\_

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

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

**Job No.** 070364 **Material Code** SSRVPS  
**Date Sampled:** 10/24/12 **Station No.:** 681+00  
**Date Tested:** November 14, 2012 **Location:** 35RTCL  
**Name of Project:** HWY26-HWY8 (REHAB)(S)  
**County:** Code: 10 **Name:** CLARK  
**Sampled By:** Depth: 0-5  
**Lab No.:** 20123350 **AASHTO Class:** A-7-6(12)  
**Sample ID:** RV1215 **Material Type (1 or 2):** 2  
**LATITUDE:** **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied		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	Resilient Modulus
			P <sub>max</sub> lbs	P <sub>cyclic</sub> lbs							
DESIGNATION	S <sub>3</sub> psi	S <sub>cyclic</sub> psi	P <sub>max</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>contact</sub> lbs	S <sub>max</sub> psi	S <sub>cyclic</sub> psi	S <sub>contact</sub> psi	H <sub>avg</sub> in	ε <sub>r</sub> in/in	M <sub>r</sub> psi
Sequence 1	6.0	2.0	25.4	22.6	2.8	2.1	1.8	0.2	0.00109	0.00014	13,626
Sequence 2	6.0	4.0	47.6	44.8	2.7	3.9	3.6	0.2	0.00227	0.00028	12,956
Sequence 3	6.0	6.0	70.9	67.3	3.6	5.8	5.5	0.3	0.00368	0.00046	12,002
Sequence 4	6.0	8.0	95.7	89.8	5.9	7.8	7.3	0.5	0.00554	0.00069	10,636
Sequence 5	6.0	10.0	119.7	111.0	8.7	9.7	9.0	0.7	0.00793	0.00098	9,197
Sequence 6	4.0	2.0	25.3	22.5	2.8	2.1	1.8	0.2	0.00122	0.00015	12,083
Sequence 7	4.0	4.0	47.6	44.9	2.7	3.9	3.7	0.2	0.00259	0.00032	11,386
Sequence 8	4.0	6.0	70.0	67.3	2.7	5.7	5.5	0.2	0.00415	0.00051	10,650
Sequence 9	4.0	8.0	94.6	89.6	5.0	7.7	7.3	0.4	0.00602	0.00075	9,778
Sequence 10	4.0	10.0	119.0	111.3	7.8	9.7	9.1	0.6	0.00827	0.00102	8,838
Sequence 11	2.0	2.0	25.4	22.7	2.7	2.1	1.8	0.2	0.00159	0.00020	9,402
Sequence 12	2.0	4.0	47.6	44.9	2.8	3.9	3.7	0.2	0.00319	0.00040	9,227
Sequence 13	2.0	6.0	70.1	67.4	2.7	5.7	5.5	0.2	0.00495	0.00061	8,938
Sequence 14	2.0	8.0	93.7	89.4	4.3	7.6	7.3	0.4	0.00692	0.00086	8,488
Sequence 15	2.0	10.0	118.1	111.1	6.9	9.6	9.0	0.6	0.00914	0.00113	7,987

**TESTED BY** AD **DATE** November 14, 2012  
**REVIEWED BY** \_\_\_\_\_ **DATE** \_\_\_\_\_

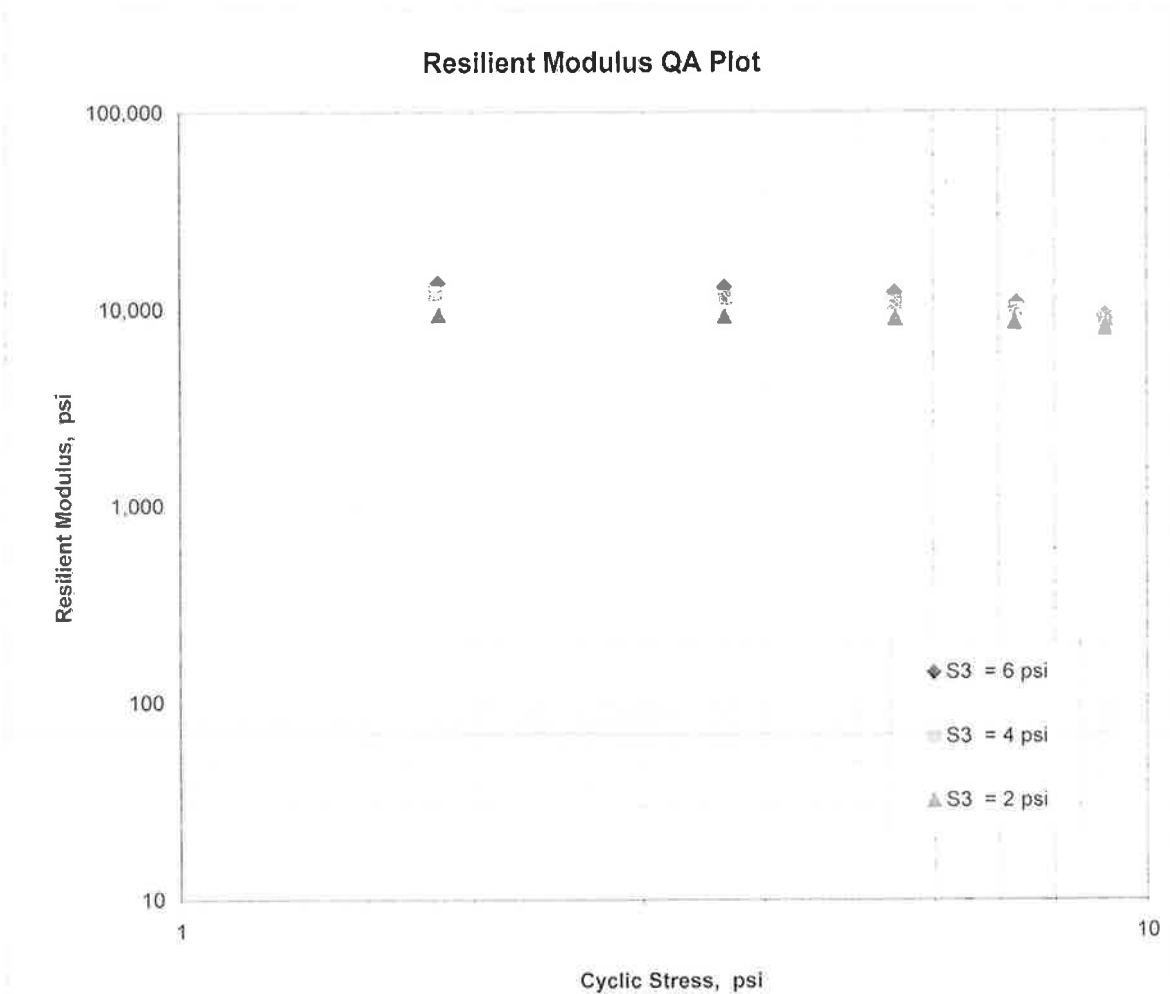
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION

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

Job No.	070364	Material Code	SSRVPS
Date Sampled:	10/24/12	Station No.:	681+00
Date Tested:	November 14, 2012	Location:	35'RTCL
Name of Project:	HWY26-HWY8 (REHAB)(S)		
County:	Code: 10	Name:	CLARK
Sampled By:		Depth:	0-5
Lab No.:	20123350	AASHTO Class:	A-7-6(12)
Sample ID:	RV1215	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 = 9,642$   
 $K_2 = -0.16985$   
 $K_5 = 0.25008$   
 $R^2 = 0.89$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION

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

Job No.	070364	Material Code	SSRVPS
Date Sampled:	10/24/12	Station No.:	729+00
Date Tested:	November 14, 2012	Location:	25'RTCL
Name of Project:	HWY26-HWY8 (REHAB)(S)		
County:	Code: 10	Name:	CLARK
Sampled By:		Depth:	0-5
Lab No.:	20123351	AASHTO Class:	A-7-6(6)
Sample ID:	RV1216	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

**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	3.95
Middle	3.96
Bottom	3.97
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):	12.25
Initial Volume, AoLo (cu. in):	98.60

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3037.80
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**4. Soil Properties:**

Optimum Moisture Content (%):	21.1
Maximum Dry Density (pcf):	101.6
95% of MDD (pcf):	96.5
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3037.80
Compaction Moisture content (%):	19.4
Compaction Wet Density (pcf):	117.40
Compaction Dry Density (pcf):	98.32
Moisture Content After Mr Test (%):	19.2

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

#VALUE!

**7. Resilient Modulus, Mr:**

$9642(S_c)^{-0.16985}(S_3)^{0.25008}$

**8. Comments**

\_\_\_\_\_

\_\_\_\_\_

**9. Tested By:**

AD \_\_\_\_\_

**Date:** November 14, 2012

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

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

**Job No.** 070364 **Material Code** SSRVPS  
**Date Sampled:** 10/24/12 **Station No.:** 729+00  
**Date Tested:** November 14, 2012 **Location:** 25'RTCL  
**Name of Project:** HWY26-HWY8 (REHAB)(S)  
**County:** Code: 10 **Name:** CLARK  
**Sampled By:** **Depth:** 0-5  
**Lab No.:** 20123351 **AASHTO Class:** A-7-6(6)  
**Sample ID:** RV1216 **Material Type (1 or 2):** 2  
**LATITUDE:** **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied		Actual Applied		Actual Applied Max. Axial Stress	S <sub>max</sub> psi	S <sub>cyclic</sub> psi	P <sub>max</sub> lbs	Actual Applied		Actual Applied Contact Load	P <sub>contact</sub> lbs	S <sub>contact</sub> psi	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
			Max. Axial Load	Cyclic Load	Max. Axial Stress	Cyclic Stress					Applied Contact Stress	H <sub>avg</sub> in						
DESIGNATION	S <sub>3</sub> psi	S <sub>cyclic</sub> psi	P <sub>max</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>contact</sub> lbs	S <sub>max</sub> psi	S <sub>cyclic</sub> psi	S <sub>contact</sub> psi	H <sub>avg</sub> in	ε <sub>r</sub> in/in	M <sub>r</sub> psi						
Sequence 1	6.0	2.0	25.0	22.3	22.3	2.8	2.0	1.8	0.2	0.0090	0.00011	16,209						
Sequence 2	6.0	4.0	46.7	44.0	44.0	2.7	3.8	3.6	0.2	0.00187	0.00023	15,473						
Sequence 3	6.0	6.0	68.4	64.8	64.8	3.6	5.6	5.3	0.3	0.00301	0.00037	14,146						
Sequence 4	6.0	8.0	90.2	84.2	84.2	6.0	7.4	6.9	0.5	0.00436	0.00054	12,696						
Sequence 5	6.0	10.0	110.8	102.3	102.3	8.5	9.0	8.4	0.7	0.00575	0.00071	11,697						
Sequence 6	4.0	2.0	24.7	22.1	22.1	2.7	2.0	1.8	0.2	0.00103	0.00013	14,045						
Sequence 7	4.0	4.0	46.2	43.5	43.5	2.7	3.8	3.5	0.2	0.00208	0.00026	13,756						
Sequence 8	4.0	6.0	66.7	63.9	63.9	2.8	5.4	5.2	0.2	0.00326	0.00041	12,873						
Sequence 9	4.0	8.0	88.8	83.7	83.7	5.1	7.2	6.8	0.4	0.00450	0.00056	12,215						
Sequence 10	4.0	10.0	109.7	102.2	102.2	7.5	9.0	8.3	0.6	0.00589	0.00073	11,399						
Sequence 11	2.0	2.0	24.0	21.3	21.3	2.7	2.0	1.7	0.2	0.00147	0.00018	9,523						
Sequence 12	2.0	4.0	45.2	42.5	42.5	2.7	3.7	3.5	0.2	0.00273	0.00034	10,253						
Sequence 13	2.0	6.0	65.6	62.9	62.9	2.7	5.4	5.1	0.2	0.00398	0.00049	10,380						
Sequence 14	2.0	8.0	86.4	82.2	82.2	4.2	7.1	6.7	0.3	0.00526	0.00065	10,264						
Sequence 15	2.0	10.0	107.6	100.8	100.8	6.8	8.8	8.2	0.6	0.00660	0.00082	10,045						

TESTED BY AD DATE November 14, 2012  
 REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_

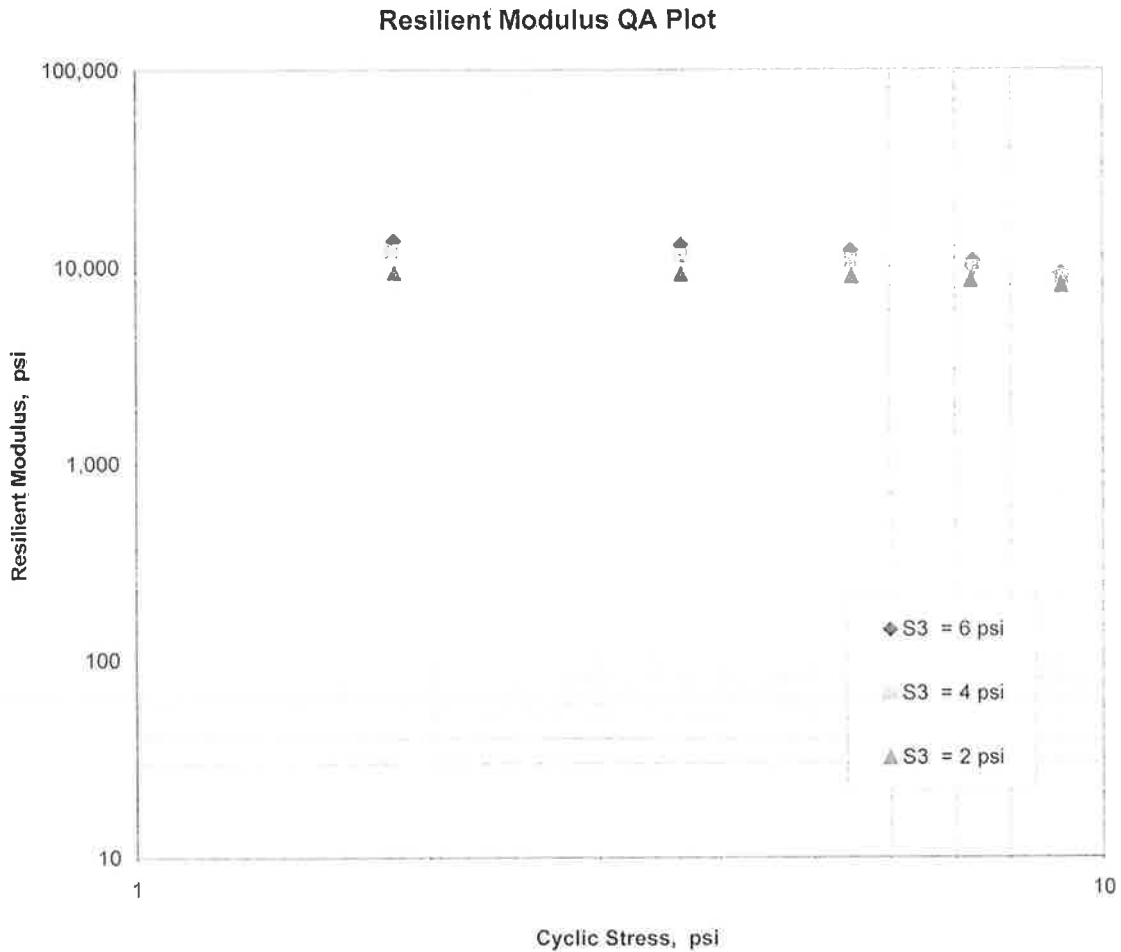
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION

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

Job No.	070364	Material Code	SSRVPS
Date Sampled:	10/24/12	Station No.:	729+00
Date Tested:	November 14, 2012	Location:	25'RTCL
Name of Project:	HWY26-HWY8 (REHAB)(S)		
County:	Code: 10	Name:	CLARK
Sampled By:		Depth:	0-5
Lab No.:	20123351	AASHTO Class:	A-7-6(6)
Sample ID:	RV1216	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 = \underline{9,642}$   
 $K_2 = \underline{-0.16985}$   
 $K_5 = \underline{0.25008}$   
 $R^2 = \underline{0.89}$



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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 11/21/12	SEQUENCE NO.	- 1
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124164	- 20124165	- 20124166
SAMPLE ID	- S1146	- S1147	- S1148
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 505+00	- 505+00	- 505+00
LOCATION	- 5'RT	- 13'RT	- 23'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 5 40.60	- 34 05 40.60	- 34 5 40.50
LONGITUDE DEG-MIN-SEC	- 93 10 7.70	- 93 10 7.70	- 931 10 7.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 94	- 99	- 99
	NO. 4 - 89	- 94	- 95
	NO. 10 - 81	- 90	- 92
	NO. 40 - 74	- 86	- 89
	NO. 80 - 69	- 83	- 84
	NO. 200 - 44	- 65	- 46
LIQUID LIMIT	- 21	- 29	- 34
PLASTICITY INDEX	- 5	- 13	- 18
AASHTO SOIL	- A-4(0)	- A-6(6)	- A-6(4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.8	- 18.4	- 18.8
ACHMSC (IN)	- 5.25W	- 3.0	- ----
ACHMBC (IN)	- 3.75	- ----	- ----
CHIP SEAL (IN)	- 1.0	- ----	- ----
AGG. BASE CRS. CL5 (IN)	- 7.0	- 7.0	- ----
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 2
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124167	- 20124168	- 20124169
SAMPLE ID	- S1149	- S1150	- S1151
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 513+00	- 513+00	- 521+00
LOCATION	- 5'LT	- 25'LT	- 5'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 5 39.80	- 34 05 39.90	- 34 5 39.50
LONGITUDE DEG-MIN-SEC	- 93 09 57.70	- 93 09 57.70	- 93 09 47.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	100
	3/8 IN. - 100	100	99
	NO. 4 - 99	99	98
	NO. 10 - 99	99	95
	NO. 40 - 98	98	90
	NO. 80 - 97	97	88
	NO. 200 - 84	47	74
LIQUID LIMIT	- 38	- 35	- 29
PLASTICITY INDEX	- 21	- 18	- 16
AASHTO SOIL	- A-6 (17)	- A-6 (5)	- A-6 (9)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 24.8	- 24.5	- 15.5
ACHMSC	(IN) - 2.0	- ----	- 1.5
ACHMBC	(IN) - 2.5	- ----	- 2.0
CHIP SEAL	(IN) - 2.0	- ----	- ----
AGG. BASE CRS. CL5	(IN) - 6.0	-	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
 - 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 - 11/21/12 SEQUENCE NO. - 3  
JOB NUMBER - 070364 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 - 10  
SUPPLIER NAME - STATE DISTRICT NO. - 07  
NAME OF PROJECT - HWY. 26-HWY.8(REHAB)(S)  
PROJECT ENGINEER - NOT APPLICABLE  
PIT/QUARRY - ARKANSAS  
LOCATION - CLARK, COUNTY DATE SAMPLED - 10/22/12  
SAMPLED BY - FAULKNER/BOUGHNER DATE RECEIVED - 10/29/12  
SAMPLE FROM - TEST HOLE DATE TESTED - 11/14/12  
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20124170	-	20124171	-	20124172
SAMPLE ID	-	S1152	-	S1153	-	S1154
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	521+00	-	529+00	-	529+00
LOCATION	-	25'RT	-	5'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	-	34 5 39.40	-	34 05 40.00	-	34 5 40.10
LONGITUDE DEG-MIN-SEC	-	93 09 47.60	-	93 09 39.00	-	93 09 39.10
% PASSING	2	IN. -	-	-	-	-
	1 1/2	IN. -	-	-	-	-
	3/4	IN. -	-	-	-	100
	3/8	IN. -	100	100	-	99
	NO. 4	-	99	99	-	98
	NO. 10	-	97	97	-	97
	NO. 40	-	95	93	-	93
	NO. 80	-	93	91	-	91
	NO. 200	-	77	76	-	75
LIQUID LIMIT	-	30	-	38	-	43
PLASTICITY INDEX	-	16	-	13	-	27
AASHTO SOIL	-	A-6(10)	-	A-6(3)	-	A-7-6(19)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	14.0	-	23.0	-	27.8
ACHMSC	(IN) -	----	-	3.75	-	----
ACHMBC	(IN) -	----	-	3.5	-	----
CHIP SEAL	(IN) -	---	-	1.75	-	---
AGG. BASE CRS. CL5	(IN) -	----	-	7.0	-	----
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X= STRIPPED  
-  
-  
-

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	- 11/21/12	SEQUENCE NO.	- 4
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124173	- 20124174	- 20124175
SAMPLE ID	- S1155	- S1156	- S1157
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 537+00	- 537+00	- 545+00
LOCATION	- 5'RT	- 25'RT	- 5'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 5 42.40	- 34 05 42.30	- 34 5 43.50
LONGITUDE DEG-MIN-SEC	- 93 09 29.80	- 93 09 29.80	- 93 09 20.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	- 100
	3/8 IN. - 98	- 100	- 99
	NO. 4 - 96	- 99	- 98
	NO. 10 - 93	- 99	- 87
	NO. 40 - 90	- 99	- 95
	NO. 80 - 87	- 96	- 93
	NO. 200 - 46	- 58	- 45
LIQUID LIMIT	- 38	- 41	- 35
PLASTICITY INDEX	- 19	- 26	- 19
AASHTO SOIL	- A-6(5)	- A-7-6(12)	- A-6(4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.4	- 19.6	- 20.4
ACHMSC (IN)	- 2.75W	- ----	- 1.5
ACHMBC (IN)	- 2.5	- ----	- 4.0
CHIP SEAL (IN)	- 3.25W	- ----	- 3.25
AGG. BASE CRS. CL5 (IN)	- 7.0	- ----	- 9.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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 - 11/21/12 SEQUENCE NO. - 5  
JOB NUMBER - 070364 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 - 10  
SUPPLIER NAME - STATE DISTRICT NO. - 07  
NAME OF PROJECT - HWY. 26-HWY.8(REHAB)(S)  
PROJECT ENGINEER - NOT APPLICABLE  
PIT/QUARRY - ARKANSAS  
LOCATION - CLARK, COUNTY DATE SAMPLED - 10/22/12  
SAMPLED BY - FAULKNER/BOUGHNER DATE RECEIVED - 10/29/12  
SAMPLE FROM - TEST HOLE DATE TESTED - 11/14/12  
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	- 20124176	- 20124177	- 20124178
SAMPLE ID	- S1158	- S1159	- S1160
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 553+00	- 553+00	- 560+00
LOCATION	- 5'RT	- 25'RT	- 5'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	- 34 5 41.10	- 34 05 41.00	- 34 5 40.20
LONGITUDE DEG-MIN-SEC	- 93 09 10.90	- 93 09 11.00	- 93 09 1.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. -	99	100
	NO. 4 -	93	99
	NO. 10 -	87	95
	NO. 40 -	82	88
	NO. 80 -	73	79
	NO. 200 -	34	32
LIQUID LIMIT	- 16	- ND	- ND
PLASTICITY INDEX	- 2	- NP	- NP
AASHTO SOIL	- A-2-4(0)	- A-2-4(0)	- A-2-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 10.2	- 13.8	- 18.4
ACHMSC (IN)	- 1.5	- -----	- 3.0
ACHMBC (IN)	- -----	- -----	- 3.0
CHIP SEAL (IN)	- -----	- -----	- 2.0
AGG. BASE CRS. CL5 (IN)	- -----	- -----	- 10.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X= STRIPPED

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	- 11/21/12	SEQUENCE NO.	- 6
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124179	- 20124180	- 20124181
SAMPLE ID	- S1161	- S1162	- S1163
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 560+00	- 569+00	- 569+00
LOCATION	- 25'LT	- 5'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	- 34 5 40.40	- 34 05 39.70	- 34 5 39.60
LONGITUDE DEG-MIN-SEC	- 93 09 1.50	- 93 08 52.30	- 93 08 52.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	100
	3/8 IN. - 100	99	99
	NO. 4 - 99	95	96
	NO. 10 - 98	89	95
	NO. 40 - 95	80	95
	NO. 80 - 86	69	84
	NO. 200 - 32	39	44
LIQUID LIMIT	- 27	- 29	- 28
PLASTICITY INDEX	- 10	- 13	- 10
AASHTO SOIL	- A-2-4(0)	- A-6(1)	- A-4(1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 28.9	- 13.9	- 17.9
ACHMSC (IN)	- ----	- 1.0	- ----
ACHMSC (IN)	- ----	- 2.5X	- ----
ACHMSC (IN)	- ----	- 4.0	- ----
AGG.BASE CRS. CL5 (IN)	- ----	- 10	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 7
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124182	- 20124183	- 20124184
SAMPLE ID	- S1164	- S1165	- S1166
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 577+00	- 577+00	- 585+00
LOCATION	- 5'LT	- 25'LT	- 5'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	- 34 5 41.50	- 34 05 41.60	- 34 5 42.20
LONGITUDE DEG-MIN-SEC	- 93 08 42.30	- 93 08 42.30	- 93 08 34.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	- 100
	3/8 IN. - 100	- 96	- 96
	NO. 4 - 96	- 93	- 90
	NO. 10 - 89	- 90	- 82
	NO. 40 - 80	- 87	- 72
	NO. 80 - 68	- 79	- 61
	NO. 200 - 31	- 32	- 36
LIQUID LIMIT	- 19	- ND	- 27
PLASTICITY INDEX	- 3	- NP	- 12
AASHTO SOIL	- A-2-4 (0)	- A-2-4 (0)	- A-6 (1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 7.2	- 14.1	- 21.4
ACHMSC (IN)	- 2.5W	- ----	- 3.0
ACHMSC (IN)	- 2.5	- ----	- 2.7
ACHMSC (IN)	- 2.0	- ----	- 1.5
AGG.BASE CRS. CL5 (IN)	- 10.0	- ----	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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 - 11/21/12 SEQUENCE NO. - 8  
JOB NUMBER - 070364 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 - 10  
SUPPLIER NAME - STATE DISTRICT NO. - 07  
NAME OF PROJECT - HWY. 26-HWY.8(REHAB)(S)  
PROJECT ENGINEER - NOT APPLICABLE  
PIT/QUARRY - ARKANSAS  
LOCATION - CLARK, COUNTY DATE SAMPLED - 10/22/12  
SAMPLED BY - FAULKNER/BOUGHNER DATE RECEIVED - 10/29/12  
SAMPLE FROM - TEST HOLE DATE TESTED - 11/14/12  
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20124185	-	20124186	-	20124187
SAMPLE ID	-	S1167	-	S1168	-	S1169
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	585+00	-	593+00	-	593+00
LOCATION	-	25'RT	-	5'LT	-	20'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	-	34 5 42.10	-	34 05 44.50	-	34 5 44.60
LONGITUDE DEG-MIN-SEC	-	93 08 34.00	-	93 08 24.80	-	93 08 24.90
% PASSING	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	100
	3/8	IN.	-	99	-	99
	NO. 4		-	93	-	97
	NO. 10		-	86	-	96
	NO. 40		-	82	-	95
	NO. 80		-	68	-	83
	NO. 200		-	33	-	52
LIQUID LIMIT	-	26	-	28	-	36
PLASTICITY INDEX	-	7	-	12	-	20
AASHTO SOIL	-	A-2-4(0)	-	A-6(2)	-	A-6(7)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	13.9	-	22.0	-	17.9
ACHMSC	(IN)	----	-	6.5	-	----
CHIP SEAL	(IN)	----	-	1.5	-	----
AGG.BASE CRS. CL5	(IN)	----	-	7.0	-	----
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
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			-		-	

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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	- 11/26/12	SEQUENCE NO.	= 23
JOB NUMBER	- 070364	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	= 10
SUPPLIER NAME	- STATE	DISTRICT NO.	= 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	= 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	= 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	= 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	= 20124188	= 20124189	= 20124190
SAMPLE ID	= S1170	= S1171	= S1172
TEST STATUS	= INFORMATION ONLY	= INFORMATION ONLY	= INFORMATION ONLY
STATION	= 601+00	= 601+00	= 601+00
LOCATION	= 5'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	= 34 5 46.90	= 34 05 46.90	= 34 5 46.70
LONGITUDE DEG-MIN-SEC	= 93 08 16.00	= 93 08 16.00	= 93 08 16.00
% PASSING			
2 IN.	=	=	=
1 1/2 IN.	=	=	=
3/4 IN.	= 100	= 100	= 100
3/8 IN.	= 98	= 99	= 98
NO. 4	= 92	= 97	= 96
NO. 10	= 84	= 94	= 95
NO. 40	= 77	= 91	= 93
NO. 80	= 61	= 77	= 79
NO. 200	= 35	= 44	= 41
LIQUID LIMIT	= 25	= 30	= 25
PLASTICITY INDEX	= 12	= 17	= 9
AASHTO SOIL	= A-2-6(0)	= A-6(3)	= A-4(0)
UNIFIED SOIL	=	=	=
% MOISTURE CONTENT	= 15.0	= 18.8	= 20.0
ACHMSC (IN)	= 4.0X	= .25	= ----
ACHMBC (IN)	= ----	= 3.75	= ----
CHIP SEAL (IN)	= .5	= ----	= ----
AGG.BASE CRS. CL5 (IN)	= 6.0	= 8.0	= ----
	=	=	=
	=	=	=
	=	=	=
	=	=	=
	=	=	=
	=	=	=

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 10
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124191	- 20124192	- 20124193
SAMPLE ID	- S1173	- S1174	- S1175
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 609+00	- 609+00	- 609+00
LOCATION	- 5'LT	- 13'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	- 34 5 49.40	- 34 05 49.40	- 34 5 49.50
LONGITUDE DEG-MIN-SEC	- 93 08 7.10	- 93 08 7.00	- 93 08 7.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 99	- 98	- 99
	NO. 4 - 95	- 93	- 95
	NO. 10 - 93	- 90	- 93
	NO. 40 - 90	- 85	- 89
	NO. 80 - 76	- 70	- 75
	NO. 200 - 42	- 41	- 41
LIQUID LIMIT	- 26	- 34	- 27
PLASTICITY INDEX	- 11	- 20	- 14
AASHTO SOIL	- A-6 (1)	- A-6 (4)	- A-6 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.5	- 18.5	- 10.6
ACHMSC	(IN) - ----	- 1.75	- ----
ACHMSC	(IN) - 4.50	- ----	- ----
CHIP SEAL	(IN) - .5	- ----	- ----
AGG.BASE CRS. CL5	(IN) - 7.0	- 6.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
 - 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	- 11/21/12	SEQUENCE NO.	- 11
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124194	- 20124195	- 20124196
SAMPLE ID	- S1176	- S1177	- S1178
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 618+00	- 618+00	- 618+00
LOCATION	- 5'RT	- 12'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	- 34 5 51.80	- 34 05 51.70	- 34 5 51.60
LONGITUDE DEG-MIN-SEC	- 93 07 51.80	- 93 07 57.70	- 93 07 57.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 99	- 99	- 100
	NO. 4 - 96	- 95	- 98
	NO. 10 - 93	- 91	- 95
	NO. 40 - 88	- 88	- 92
	NO. 80 - 71	- 73	- 78
	NO. 200 - 36	- 45	- 38
LIQUID LIMIT	- 23	- 28	- 28
PLASTICITY INDEX	- 9	- 14	- 13
AASHTO SOIL	- A-4(0)	- A-6(3)	- A-6(1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.3	- 16.5	- 15.0
ACHMSC (IN)	- 4.0	- 4.25	- ----
ACHMBC (IN)	- 2.0	- ----	- ----
AGG.BASE CRS.CL5 (IN)	- 6.0	- 6.0	- ----
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 12
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124197	- 20124198	- 20124199
SAMPLE ID	- S1179	- S1180	- S1181
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 625+00	- 625+00	- 633+00
LOCATION	- 5'LT	- 25'LT	- 5'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	- 34 5 55.10	- 34 05 55.20	- 34 5 58.70
LONGITUDE DEG-MIN-SEC	- 93 07 49.70	- 93 07 49.80	- 93 07 41.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	100
	3/8 IN. - 100	- 100	- 98
	NO. 4 - 98	- 95	- 94
	NO. 10 - 95	- 92	- 89
	NO. 40 - 90	- 87	- 85
	NO. 80 - 79	- 77	- 71
	NO. 200 - 57	- 47	- 41
LIQUID LIMIT	- 36	- 36	- 23
PLASTICITY INDEX	- 22	- 11	- 8
AASHTO SOIL	- A-6(9)	- A-6(2)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 24.3	- 20.6	- 16.4
ACHMSC	(IN) - 4.25X	-	- 2.0
ACHMBC	(IN) - 2.25	-	- 3.0X
ACHMBC	(IN) -	-	- 2.5
CHIP SEAL	(IN) - .50	-	-
AGG.BASE CRS.CL5	(IN) - 7.0	-	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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	- 11/21/12	SEQUENCE NO.	- 13
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124200	- 20124201	- 20124202
SAMPLE ID	- S1182	- S1183	- S1184
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 633+00	- 640+00	- 640+00
LOCATION	- 25'RT	- 5'LT	- 25'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 5 58.60	- 34 06 .70	- 34 6 .80
LONGITUDE DEG-MIN-SEC	- 93 07 41.30	- 93 07 31.30	- 93 07 31.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 95	- 99	- 98
	NO. 10 - 91	- 97	- 95
	NO. 40 - 87	- 95	- 93
	NO. 80 - 77	- 86	- 83
	NO. 200 - 45	- 42	- 34
LIQUID LIMIT	- 26	- 20	- ND
PLASTICITY INDEX	- 11	- 5	- NP
AASHTO SOIL	- A-6(2)	- A-4(0)	- A-2-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.7	- 17.3	- 21.1
ACHMSC	(IN) - ----	- 2.0	- ----
ACHMBC	(IN) - ----	- 2.5	- ----
ACHMSC	(IN) - ----	- 2.0	- ----
AGG.BASE CRS.CL5	(IN) - ----	- 7.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 14
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124203	- 20124204	- 20124205
SAMPLE ID	- S1185	- S1186	- S1187
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 649+00	- 649+00	- 657+00
LOCATION	- 5'RT	- 25'LT	- 5'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 5 2.40	- 34 06 2.30	- 34 6 5.10
LONGITUDE DEG-MIN-SEC	- 93 07 22.10	- 93 07 22.10	- 93 07 12.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	- 100
	3/8 IN. - 98	- 100	- 97
	NO. 4 - 95	- 98	- 92
	NO. 10 - 91	- 95	- 84
	NO. 40 - 85	- 92	- 74
	NO. 80 - 78	- 82	- 62
	NO. 200 - 39	- 37	- 29
LIQUID LIMIT	- 19	- 27	- ND
PLASTICITY INDEX	- 3	- 11	- NP
AASHTO SOIL	- A-4 (0)	- A-6 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.6	- 21.4	- 11.0
ACHMSC (IN)	- 2.5X	- -----	- 2.25
ACHMBC (IN)	- 4.25	- -----	- 3.5
CHIP SEAL (IN)	- -----	- -----	- 3.0
AGG.BASE CRS.CL5 (IN)	- 7.0	- -----	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 15
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY. 26-HWY.8(REHAB)(S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20124206	- 20124207	- 20124208
SAMPLE ID	- S1188	- S1189	- S1190
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 657+00	- 665+00	- 665+00
LOCATION	- 25'LT	- 5'RT	- 25'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- RED	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 6 5.20	- 34 06 9.50	- 34 6 9.40
LONGITUDE DEG-MIN-SEC	- 93 07 12.10	- 93 07 3.40	- 93 07 3.30
% PASSING			
	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 99	- 100	- 100
	NO. 4 - 95	- 96	- 94
	NO. 10 - 92	- 93	- 87
	NO. 40 - 89	- 89	- 81
	NO. 80 - 78	- 80	- 77
	NO. 200 - 49	- 51	- 44
LIQUID LIMIT	- 37	- 35	- 21
PLASTICITY INDEX	- 24	- 19	- 7
AASHTO SOIL	- A-6(7)	- A-6(6)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.9	- 14.6	- 7.5
ACHMSC (IN)	- ----	- 1.5	- ----
ACHMBC (IN)	- ----	- 5.0	- ----
AGG.BASE CRS.CL5 (IN)	- ----	- 7.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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 - 11/21/12 SEQUENCE NO. - 16  
JOB NUMBER - 070364 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 - 10  
SUPPLIER NAME - STATE DISTRICT NO. - 07  
NAME OF PROJECT - HWY. 26-HWY.8(REHAB) (S)  
PROJECT ENGINEER - NOT APPLICABLE  
PIT/QUARRY - ARKANSAS  
LOCATION - CLARK, COUNTY DATE SAMPLED - 10/22/12  
SAMPLED BY - FAULKNER/BOUGHNER DATE RECEIVED - 10/29/12  
SAMPLE FROM - TEST HOLE DATE TESTED - 11/14/12  
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20124209	-	20124210	-	20124211	
SAMPLE ID	-	S1191	-	S1192	-	S1193	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	673+00	-	673+00	-	681+00	
LOCATION	-	5'LT	-	25'LT	-	5'RT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BROWN	-	BROWN	-	BR/GR	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	34 6 13.20	-	34 06 13.20	-	34 6 15.40	
LONGITUDE DEG-MIN-SEC	-	93 06 54.30	-	93 06 54.30	-	93 06 45.10	
% PASSING	2	IN.	-		-		
	1 1/2	IN.	-		-		
	3/4	IN.	-	100	-	100	
	3/8	IN.	-	99	-	98	
	NO. 4		-	94	-	87	
	NO. 10		-	87	-	69	
	NO. 40		-	79	-	45	
	NO. 80		-	70	-	34	
	NO. 200		-	47	-	23	
LIQUID LIMIT	-	24	-	28	-	ND	
PLASTICITY INDEX	-	11	-	14	-	NP	
AASHTO SOIL	-	A-6(2)	-	A-6(3)	-	A-1-B(0)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	11.2	-	15.9	-	4.9	
ACHMSC	(IN)	-	4.0	-	----	-	2.0
ACHMBC	(IN)	-	2.0	-	----	-	2.75
AGG.BASE CRS.CL5	(IN)	-	7.0	-	----	-	8.0
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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	- 11/21/12	SEQUENCE NO.	- 17
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124212	- 20124213	- 20124214
SAMPLE ID	- S1194	- S1195	- S1196
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 681+00	- 681+00	- 689+00
LOCATION	- 15'RT	- 25'RT	- 5'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 6 15.30	- 34 06 15.20	- 34 6 19.40
LONGITUDE DEG-MIN-SEC	- 93 06 45.10	- 93 06 45.00	- 93 06 36.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 95	- 97	- 100
	NO. 4 - 85	- 91	- 96
	NO. 10 - 71	- 85	- 92
	NO. 40 - 58	- 79	- 86
	NO. 80 - 50	- 73	- 83
	NO. 200 - 32	- 44	- 55
LIQUID LIMIT	- 24	- 39	- 41
PLASTICITY INDEX	- 9	- 27	- 28
AASHTO SOIL	- A-2-4(0)	- A-6(7)	- A-7-6(11)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 11.0	- 19.2	- 19.2
ACHMSC (IN)	- 2.5	- ----	- ----
CHIP SEAL (IN)	- ----	- ----	- .50
ACHMBC (IN)	- ----	- ----	- 3.5
CHIP SEAL (IN)	- ----	- ----	- 1.0
AGG.BASE CRS.CL5 (IN)	- 7.0	- ----	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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	- 11/21/12	SEQUENCE NO.	- 18
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124215	- 20124216	- 20124217
SAMPLE ID	- S1197	- S1198	- S1199
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 689+00	- 689+00	- 697+00
LOCATION	- 15'LT	- 25'LT	- 5'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	- 34 6 19.40	- 34 06 19.50	- 34 6 23.70
LONGITUDE DEG-MIN-SEC	- 93 06 36.60	- 93 06 36.70	- 93 06 27.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 93	- 99	- 95
	NO. 4 - 87	- 96	- 83
	NO. 10 - 84	- 95	- 73
	NO. 40 - 80	- 93	- 65
	NO. 80 - 76	- 90	- 56
	NO. 200 - 51	- 47	- 28
LIQUID LIMIT	- 32	- 41	- ND
PLASTICITY INDEX	- 19	- 26	- NP
AASHTO SOIL	- A-6(6)	- A-7-6(8)	- A-2-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 21.6	- 25.2	- 5.0
ACHMSC	(IN) - 1.75	- ----	- 3.50
ACHMBC	(IN) - 2.5	- ----	- 1.75
ACHMSC	(IN) - ----	- ----	- 2.5
CHIP SEAL	(IN) - ----	- ----	- 1.0
AGG.BASE CRS.CL5	(IN) - 6.0	- ----	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 19
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124218	- 20124219	- 20124220
SAMPLE ID	- S1200	- S1201	- S1202
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 697+00	- 705+00	- 713+00
LOCATION	- 25'RT	- 5'LT	- 5'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	- 34 6 23.60	- 34 06 26.90	- 34 6 32.20
LONGITUDE DEG-MIN-SEC	- 93 06 26.90	- 93 06 23.30	- 93 06 17.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. - 100	-	-
	3/4 IN. - 99	-	- 100
	3/8 IN. - 86	- 100	- 99
	NO. 4 - 83	- 99	- 94
	NO. 10 - 80	- 96	- 88
	NO. 40 - 77	- 91	- 81
	NO. 80 - 73	- 88	- 71
	NO. 200 - 55	- 47	- 38
LIQUID LIMIT	- 47	- 26	- ND
PLASTICITY INDEX	- 33	- 12	- NP
AASHTO SOIL	- A-7-6(14)	- A-6(2)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.6	- 20.5	- 22.7
ACHMSC (IN)	- ----	- 2.5	- 3.0
ACHMBC (IN)	- ----	- 4.0	- 3.0
CHIP SEAL (IN)	- ----	- 2.0	- 2.0
AGG.BASE CRS.CL5 (IN)	- ----	- 6.0	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
 - 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	- 11/21/12	SEQUENCE NO.	- 20
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124221	- 20124222	- 20124223
SAMPLE ID	- S1203	- S1204	- S1205
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 713+00	- 722+00	- 722+00
LOCATION	- 25'RT	- 5'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	- 34 6 32.10	- 34 06 38.60	- 34 6 38.70
LONGITUDE DEG-MIN-SEC	- 93 06 17.20	- 93 06 10.60	- 93 06 10.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	- 100
	3/8 IN. - 100	- 99	- 93
	NO. 4 - 98	- 97	- 86
	NO. 10 - 97	- 92	- 81
	NO. 40 - 95	- 87	- 77
	NO. 80 - 92	- 78	- 69
	NO. 200 - 55	- 45	- 39
LIQUID LIMIT	- 35	- 34	- 31
PLASTICITY INDEX	- 19	- 19	- 15
AASHTO SOIL	- A-6(7)	- A-6(4)	- A-6(2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.1	- 14.7	- 12.6
ACHMSC (IN)	- ----	- 2.25	- ----
ACHMBC (IN)	- ----	- 3.5	- ----
CHIP SEAL (IN)	- ----	- 2.0	- ----
AGG.BASE CRS.CL5 (IN)	- ----	- 6.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 21
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8 (REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20124224	- 20124225	- 20124226
SAMPLE ID	- S1206	- S1207	- S1208
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 729+00	- 729+00	- 737+00
LOCATION	- 5'RT	- 25'RT	- 5'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	- 34 6 44.70	- 34 06 44.60	- 34 6 51.60
LONGITUDE DEG-MIN-SEC	- 93 06 5.00	- 93 06 5.00	- 93 06 .20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 99	- 96	- 99
	NO. 4 - 97	- 93	- 94
	NO. 10 - 94	- 92	- 86
	NO. 40 - 92	- 91	- 78
	NO. 80 - 84	- 86	- 71
	NO. 200 - 47	- 49	- 48
LIQUID LIMIT	- 43	- 38	- 29
PLASTICITY INDEX	- 25	- 19	- 15
AASHTO SOIL	- A-7-6(7)	- A-6(6)	- A-6(4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 25.7	- 25.5	- 15.5
ACHMSC (IN)	- 3.0	- ----	- 3.0
ACHMBC (IN)	- 2.75	- ----	- 3.5
CHIP SEAL (IN)	- 1.5	- ----	- 1.5
AGG.BASE CRS.CL5 (IN)	- 8.0	- ----	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- W=MULTIPLE LAYERS, X=STRIPPED

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	- 11/21/12	SEQUENCE NO.	- 22
JOB NUMBER	- 070364	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	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY. 26-HWY.8(REHAB)(S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20124227	- 20124228	- 20124229
SAMPLE ID	- S1209	- S1210	- S1211
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 737+00	- 745+00	- 745+00
LOCATION	- 25'LT	- 5'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	- 34 6 51.70	- 34 06 57.70	- 34 6 57.70
LONGITUDE DEG-MIN-SEC	- 93 06 .30	- 93 06 54.60	- 93 06 54.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 98	- 99	- 84
	NO. 4 - 96	- 98	- 72
	NO. 10 - 94	- 92	- 65
	NO. 40 - 90	- 78	- 58
	NO. 80 - 85	- 68	- 51
	NO. 200 - 57	- 49	- 33
LIQUID LIMIT	- 33	- 20	- ND
PLASTICITY INDEX	- 19	- 7	- NP
AASHTO SOIL	- A-6(7)	- A-4(0)	- A-2-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.3	- 18.7	- 10.2
ACHMSC (IN)	- ----	- 1.5	- ----
ACHMBC (IN)	- ----	- 1.75	- ----
CHIP SEAL (IN)	- ----	- 2.0	- ----
AGG.BASE CRS.CL5 (IN)	- ----	- 7.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
- 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	- 11/21/12	SEQUENCE NO.	- 2
JOB NUMBER	- 070364	MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 10
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY. 26-HWY.8(REHAB) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLARK, COUNTY	DATE SAMPLED	- 10/22/12
SAMPLED BY	- FAULKNER/BOUGHNER	DATE RECEIVED	- 10/29/12
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/14/12
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE	ACTUAL RESULTS	

LAB NUMBER	- 20124233	- 20124234	-
SAMPLE ID	- RV1215	- RV1216	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- 681+00	- 729+00	-
LOCATION	- 35'RT	- 25'RT	-
DEPTH IN FEET	- 0-5	- 0-5	-
MAT'L COLOR	- BR/GR	- BR/GR	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 6 15.20	- 34 06 44.60	-
LONGITUDE DEG-MIN-SEC	- 93 06 36.70	- 93 06 5.00	-
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	- 100	-
	3/8 IN.	- 99	-
	NO. 4	- 95	-
	NO. 10	- 90	-
	NO. 40	- 87	-
	NO. 80	- 83	-
	NO. 200	- 56	-
LIQUID LIMIT	- 46	- 44	-
PLASTICITY INDEX	- 28	- 26	-
AASHTO SOIL	- A-7-6(12)	- A-7-6(9)	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM CL OF EXISTING RD.WAY  
 - W=MULTIPLE LAYERS, X=STRIPPED  
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 -  
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AASHTO TESTS : T24 T88 T89 T90 T265  
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