

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT



SUBSURFACE INVESTIGATION

STATE JOB NO. BB0302

FEDERAL AID PROJECT NO. NHPP-HSIP-30-1(153)12

HWY. 67 – WEST OF RED RIVER (S)

STATE HIGHWAY 30 SECTION 11

IN MILLER 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

June 29, 2016

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. BB0302
Hwy. 67 – West of the Red River (S)
Route 30, Section 11
Miller County

Transmitted herewith is the requested Pavement Sounding information, strength data and Resilient Modulus test results for the above referenced job. The project consists of rehabilitating approximately 4.6 miles of concrete paving on Interstate 30. Cores were taken at quarter-mile increments alternating between east and west bound outside lanes. Asphalt Cement Binder content is listed in the table below.

<u>Type</u>	Asphalt Concrete Hot Mix	
	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	5.2	94.8
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 3 Engineer
Transportation Planning and Policy 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 - 05/31/2016
JOB NUMBER - BB0302

SEQUENCE NO. - 1
MATERIAL CODE - SSRV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 46
DISTRICT NO. - 03

JOB NAME - HWY.67 - WEST OF RED RIVER (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB	20
RESILIENT MODULUS	
STA.412+00	6940
STA.447+00	7066
STA.495+80	6956
STA.560+80	7340

REMARKS -
-

AASHTO TESTS : T190

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

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

Job No.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	412+00
Date Tested:	May 25, 2016	Location:	CL
Name of Project:	HWY. 67 - WEST OF RED RIVER (S)		
County:	Code: 46	Name:	MILLER
Sampled By:	D. THORTON	Depth:	0-5'
Lab No.:	20161416	AASHTO Class:	A-4 (0)
Sample ID:	RV232	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	3.97
Middle	3.97
Bottom	3.96
Average	3.97
Membrane Thickness (in):	0.01
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):	12.28
Initial Volume, AoLo (cu. in):	98.39

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3220.60
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4. Soil Properties:

Optimum Moisture Content (%):	12.5
Maximum Dry Density (pcf):	116.5
95% of MDD (pcf):	110.7
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3220.60
Compaction Moisture content (%):	12.7
Compaction Wet Density (pcf):	124.72
Compaction Dry Density (pcf):	110.67
Moisture Content After Mr Test (%):	12.5

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

#VALUE!

7. Resilient Modulus, Mr:

7038(Sc)^{-0.12531(S3)^{0.34700}}

8. Comments

9. Tested By:

C.GARRETT

Date: May 25, 2016

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

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

Job No. BB0302 **Material Code** SSRVPS
Date Sampled: 5/11/16 **Station No.:** 412+00
Date Tested: May 25, 2016 **Location:** CL

Name of Project: HWY. 67 - WEST OF RED RIVER (S)
County: Code: 46 **Name:** MILLER
Sampled By: D. THORTON **Depth:** 0-5'
Lab No.: 20161416 **AASHTO Class:** A-4 (0)
Sample ID: RV232 **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	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.0	22.3	2.7	2.0	1.8	0.2	0.00120	0.00015	12,112
Sequence 2	6.0	4.0	47.2	44.5	2.7	3.8	3.6	0.2	0.00254	0.00032	11,410
Sequence 3	6.0	6.0	69.8	66.2	3.6	5.7	5.4	0.3	0.00391	0.00049	11,031
Sequence 4	6.0	8.0	93.4	87.3	6.1	7.6	7.1	0.5	0.00555	0.00069	10,259
Sequence 5	6.0	10.0	117.1	108.4	8.6	9.5	8.8	0.7	0.00719	0.00090	9,837
Sequence 6	4.0	2.0	24.9	22.2	2.7	2.0	1.8	0.2	0.00138	0.00017	10,469
Sequence 7	4.0	4.0	46.5	43.8	2.7	3.8	3.6	0.2	0.00299	0.00037	9,542
Sequence 8	4.0	6.0	67.8	65.0	2.8	5.5	5.3	0.2	0.00468	0.00058	9,064
Sequence 9	4.0	8.0	91.6	86.3	5.3	7.5	7.0	0.4	0.00642	0.00080	8,767
Sequence 10	4.0	10.0	115.0	107.3	7.7	9.4	8.7	0.6	0.00812	0.00101	8,613
Sequence 11	2.0	2.0	24.6	21.8	2.8	2.0	1.8	0.2	0.00169	0.00021	8,405
Sequence 12	2.0	4.0	45.5	42.7	2.8	3.7	3.5	0.2	0.00365	0.00046	7,630
Sequence 13	2.0	6.0	66.0	63.2	2.8	5.4	5.1	0.2	0.00569	0.00071	7,249
Sequence 14	2.0	8.0	88.6	84.1	4.5	7.2	6.8	0.4	0.00770	0.00096	7,121
Sequence 15	2.0	10.0	111.7	104.6	7.1	9.1	8.5	0.6	0.00983	0.00123	6,940

TESTED BY _____ DATE _____
 REVIEWED BY _____ DATE _____

C.GARRETT May 25, 2016

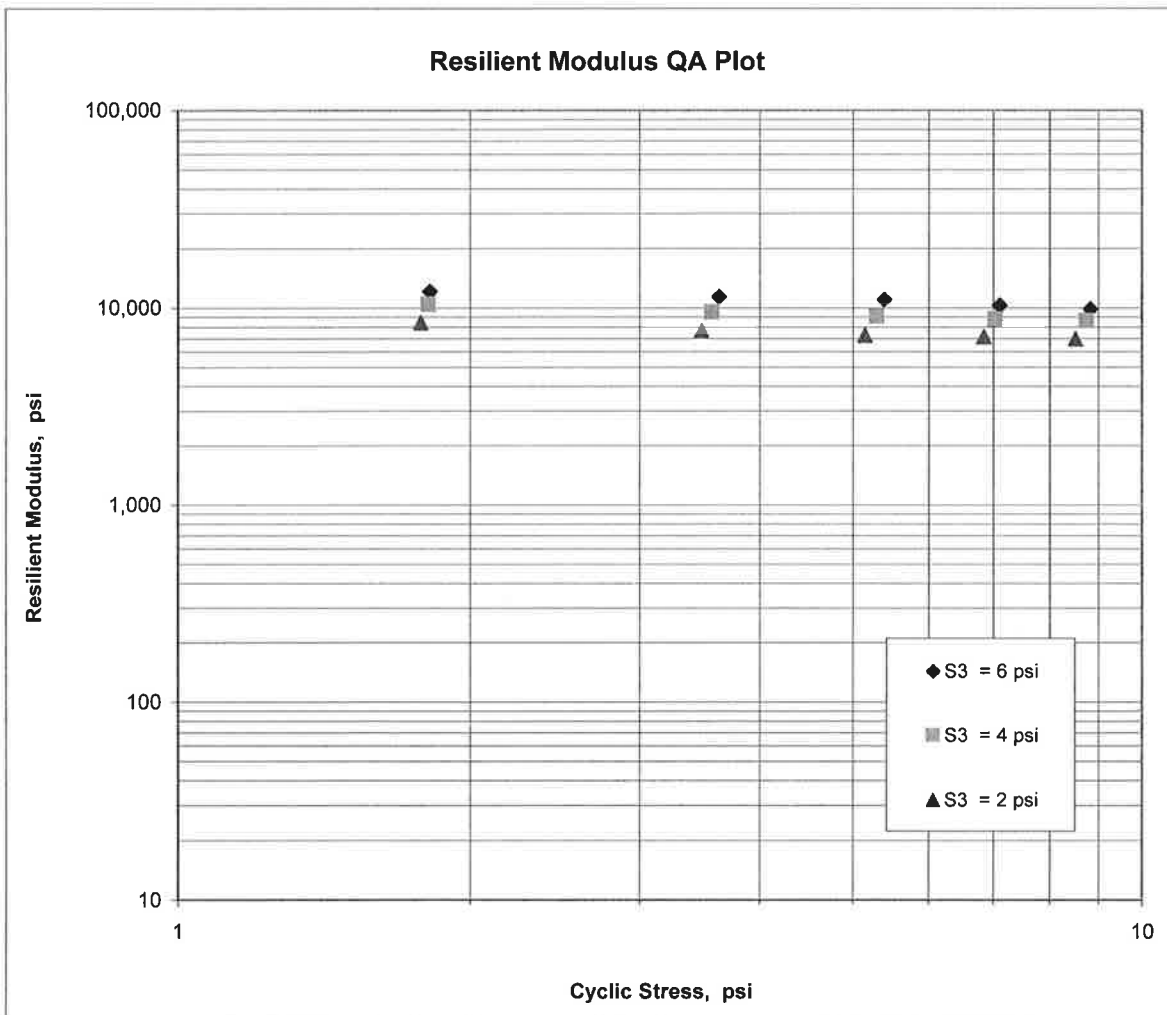
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	412+00
Date Tested:	May 25, 2016	Location:	CL
Name of Project:	HWY. 67 - WEST OF RED RIVER (S)		
County:	Code: 46	Name:	MILLER
Sampled By:	D. THORTON	Depth:	0-5'
Lab No.:	20161416	AASHTO Class:	A-4 (0)
Sample ID:	RV232	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 =$	<u>7,038</u>
$K_2 =$	<u>-0.12531</u>
$K_5 =$	<u>0.34700</u>
$R^2 =$	<u>0.99</u>



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

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

Job No.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	447+00
Date Tested:	May 25, 2016	Location:	CL
Name of Project:	HWY. 67 - WEST OF RED RIVER (S)		
County:	Code: 1	Name:	ARKANSAS
Sampled By:	D. THORNTON	Depth:	0-5
Lab No.:	20161417	AASHTO Class:	A-4 (0)
Sample ID:	RV233	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	3.94
Bottom	3.95
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.02
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.02
Initial Area, Ao (sq. in):	12.16
Initial Volume, AoLo (cu. in):	97.52

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3307.60
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4. Soil Properties:

Optimum Moisture Content (%):	12.1
Maximum Dry Density (pcf):	118.3
95% of MDD (pcf):	112.4
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3307.60
Compaction Moisture content (%):	12.4
Compaction Wet Density (pcf):	129.24
Compaction Dry Density (pcf):	114.98
Moisture Content After Mr Test (%):	12.0

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

#VALUE!

7. Resilient Modulus, Mr:

6098(Sc)^{-0.07486}(S3)^{0.40892}

8. Comments

9. Tested By:

G.WENDLAND

Date: May 25, 2016

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

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

Job No. BB0302 **Material Code** SSRVPS
Date Sampled: 5/11/16 **Station No.:** 447+00
Date Tested: May 25, 2016 **Location:** CL

Name of Project: HWY. 67 - WEST OF RED RIVER (S)

County: Code: 1 **Name:** ARKANSAS

Sampled By: D. THORNTON
Lab No.: 20161417
Sample ID: RV233

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

LATITUDE:

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
Sequence 1	6.0	2.0	25.0	22.2	2.8	2.1	1.8	0.2	0.00122	0.00015	12,048
Sequence 2	6.0	4.0	47.2	44.4	2.8	3.9	3.7	0.2	0.00249	0.00031	11,790
Sequence 3	6.0	6.0	70.1	66.4	3.7	5.8	5.5	0.3	0.00383	0.00048	11,444
Sequence 4	6.0	8.0	94.0	87.9	6.1	7.7	7.2	0.5	0.00528	0.00066	10,971
Sequence 5	6.0	10.0	118.1	109.6	8.6	9.7	9.0	0.7	0.00668	0.00083	10,821
Sequence 6	4.0	2.0	24.8	22.0	2.8	2.0	1.8	0.2	0.00140	0.00017	10,361
Sequence 7	4.0	4.0	46.5	43.7	2.8	3.8	3.6	0.2	0.00306	0.00038	9,425
Sequence 8	4.0	6.0	68.1	65.3	2.8	5.6	5.4	0.2	0.00468	0.00058	9,204
Sequence 9	4.0	8.0	92.2	87.0	5.2	7.6	7.2	0.4	0.00626	0.00078	9,171
Sequence 10	4.0	10.0	115.9	108.3	7.6	9.5	8.9	0.6	0.00790	0.00099	9,040
Sequence 11	2.0	2.0	24.4	21.7	2.7	2.0	1.8	0.2	0.00182	0.00023	7,850
Sequence 12	2.0	4.0	45.2	42.5	2.8	3.7	3.5	0.2	0.00379	0.00047	7,386
Sequence 13	2.0	6.0	65.9	63.0	2.9	5.4	5.2	0.2	0.00592	0.00074	7,021
Sequence 14	2.0	8.0	88.2	83.9	4.3	7.3	6.9	0.4	0.00783	0.00098	7,069
Sequence 15	2.0	10.0	111.3	104.5	6.8	9.2	8.6	0.6	0.00976	0.00122	7,066

TESTED BY _____ DATE _____
 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.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	447+00
Date Tested:	May 25, 2016	Location:	CL
Name of Project:	HWY. 67 - WEST OF RED RIVER (S)		
County:	Code: 1	Name:	ARKANSAS
Sampled By:	D. THORNTON		Depth: 0-5
Lab No.:	20161417	AASHTO Class:	A-4 (0)
Sample ID:	RV233	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

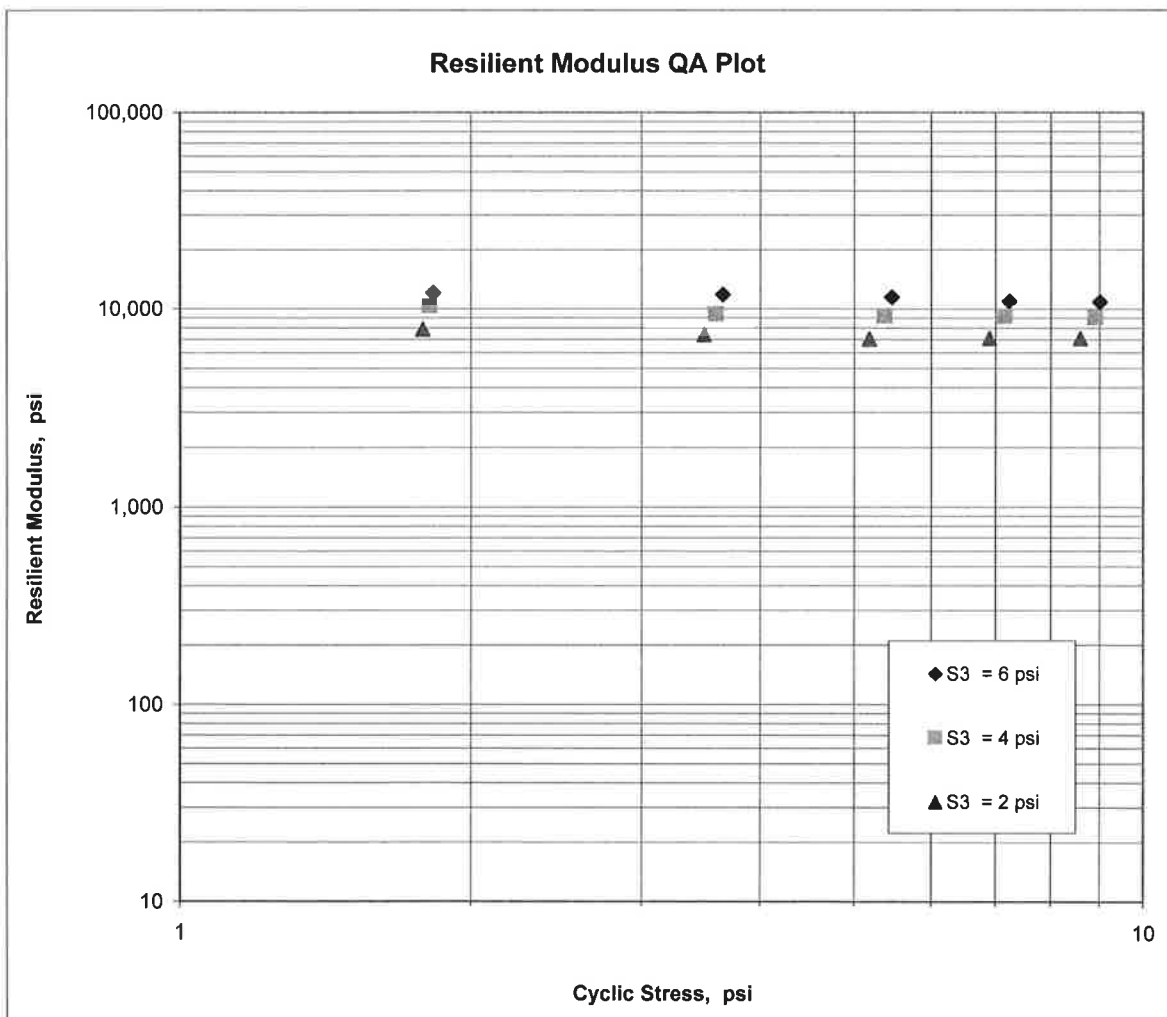
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = \underline{\underline{6,098}}$$

$$K_2 = \underline{\underline{-0.07486}}$$

$$K_5 = \underline{\underline{0.40892}}$$

$$R^2 = \underline{\underline{0.99}}$$



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

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

Job No.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	495+80
Date Tested:	May 26, 2016	Location:	CL
Name of Project:	HWY.67 - WEST OF RED RIVER (S)		
County:	Code: 46	Name: MILLER	
Sampled By:	D.THORTON	Depth:	0-5'
Lab No.:	20161418	AASHTO Class:	A-4(0)
Sample ID:	RV234	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	3.96
Middle	3.95
Bottom	3.94
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8
Initial Area, Ao (sq. in):	12.18
Initial Volume, AoLo (cu. in):	97.44

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3185.80
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4. Soil Properties:

Optimum Moisture Content (%):	14.3
Maximum Dry Density (pcf):	113.8
95% of MDD (pcf):	108.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3185.80
Compaction Moisture content (%):	14.5
Compaction Wet Density (pcf):	124.58
Compaction Dry Density (pcf):	108.80
Moisture Content After Mr Test (%):	14.2

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

#VALUE!

7. Resilient Modulus, Mr:

8102(Sc)^-0.18919(S3)^0.33760

8. Comments

9. Tested By:

G.WENDLAND

Date: May 26, 2016

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

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

Job No. BB0302 **Material Code** SSRVPS
Date Sampled: 5/11/16 **Station No.:** 495+80
Date Tested: May 26, 2016 **Location:** CL

Name of Project: HWY.67 - WEST OF RED RIVER (S)

County: Code: 46 **Name:** MILLER

Sampled By: D.THORTON
Lab No.: 20161418
Sample ID: RV234

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

LATITUDE:

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. LVD1 and 2	Resilient Strain	Resilient Modulus
DESIGNATION	S ₃	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	S _{contact}	H _{avg}	ε _r	M _r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.0	22.4	2.5	2.1	1.8	0.2	0.00113	0.00014	13,014
Sequence 2	6.0	4.0	47.1	44.5	2.6	3.9	3.7	0.2	0.00245	0.00031	11,929
Sequence 3	6.0	6.0	69.8	66.4	3.4	5.7	5.4	0.3	0.00390	0.00049	11,164
Sequence 4	6.0	8.0	93.4	87.6	5.8	7.7	7.2	0.5	0.00561	0.00070	10,254
Sequence 5	6.0	10.0	117.2	109.0	8.2	9.6	8.9	0.7	0.00734	0.00092	9,757
Sequence 6	4.0	2.0	24.8	22.5	2.4	2.0	1.8	0.2	0.00129	0.00016	11,458
Sequence 7	4.0	4.0	46.4	43.9	2.5	3.8	3.6	0.2	0.00293	0.00037	9,845
Sequence 8	4.0	6.0	67.9	65.4	2.5	5.6	5.4	0.2	0.00466	0.00058	9,219
Sequence 9	4.0	8.0	91.3	86.6	4.7	7.5	7.1	0.4	0.00647	0.00081	8,793
Sequence 10	4.0	10.0	114.7	107.4	7.3	9.4	8.8	0.6	0.00827	0.00103	8,529
Sequence 11	2.0	2.0	24.5	22.1	2.4	2.0	1.8	0.2	0.00155	0.00019	9,367
Sequence 12	2.0	4.0	45.4	43.1	2.3	3.7	3.5	0.2	0.00350	0.00044	8,078
Sequence 13	2.0	6.0	65.8	63.3	2.5	5.4	5.2	0.2	0.00564	0.00071	7,372
Sequence 14	2.0	8.0	88.2	84.2	4.0	7.2	6.9	0.3	0.00780	0.00098	7,088
Sequence 15	2.0	10.0	111.4	104.8	6.6	9.1	8.6	0.5	0.00990	0.00124	6,956

TESTED BY _____ DATE _____
 REVIEWED BY _____ DATE _____

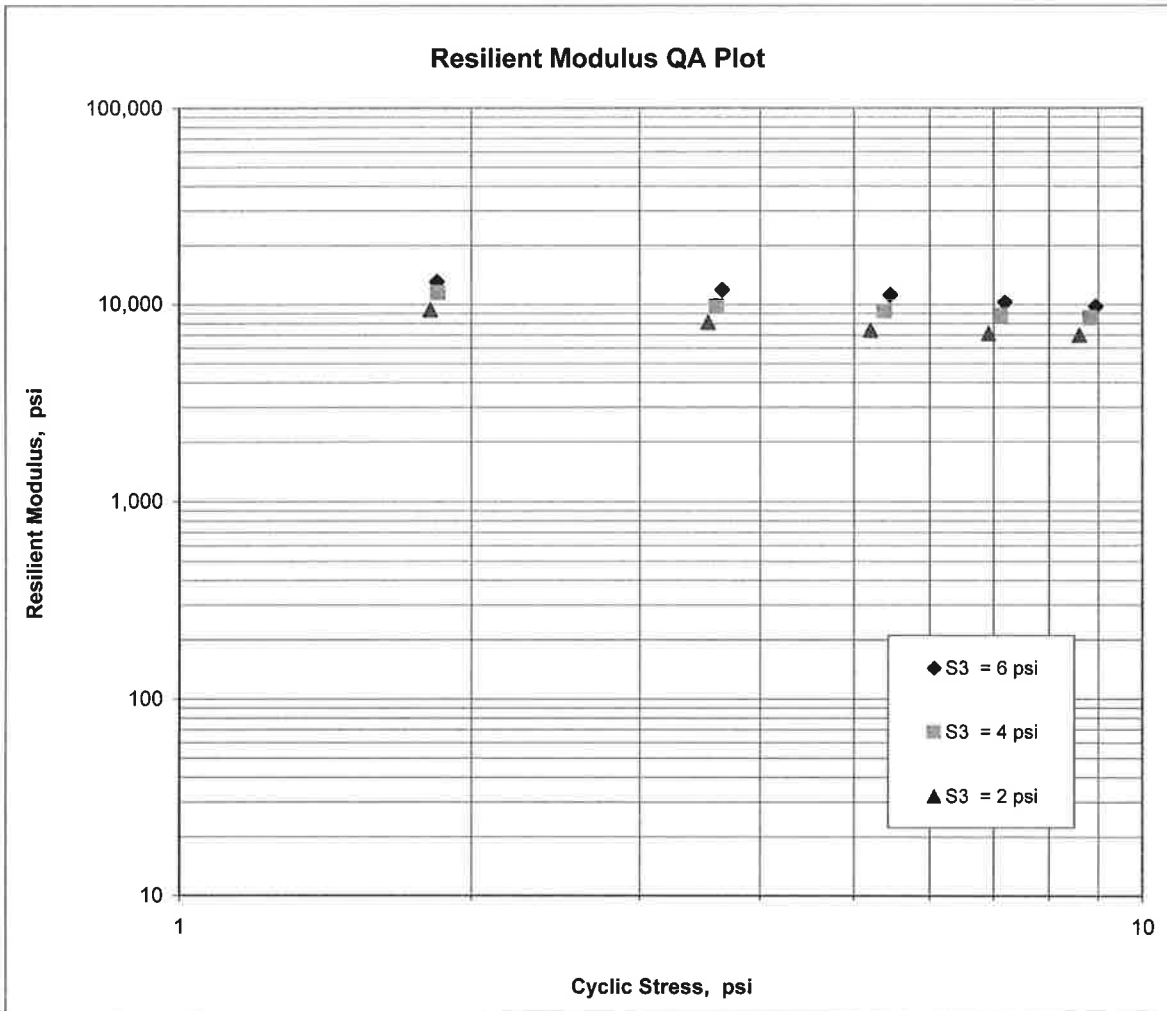
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	495+80
Date Tested:	May 26, 2016	Location:	CL
Name of Project:	HWY.67 - WEST OF RED RIVER (S)		
County:	Code: 46	Name:	MILLER
Sampled By:	D.THORTON		Depth: 0-5'
Lab No.:	20161418	AASHTO Class:	A-4(0)
Sample ID:	RV234	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 =$	<u>8,102</u>
$K_2 =$	<u>-0.18919</u>
$K_5 =$	<u>0.33760</u>
$R^2 =$	<u>0.99</u>



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

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

Job No.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	560+80
Date Tested:	May 26, 2016	Location:	CL
Name of Project:	HWY.67 - WEST OF RED RIVER (S)		
County:	Code: 46	Name: MILLER	
Sampled By:	D.THORTON	Depth:	0-5'
Lab No.:	20161419	AASHTO Class:	A-4(0)
Sample ID:	RV235	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	3.97
Middle	3.97
Bottom	3.96
Average	3.97
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	8
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8
Initial Area, Ao (sq. in):	12.36
Initial Volume, AoLo (cu. in):	98.86

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3206.30
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4. Soil Properties:

Optimum Moisture Content (%):	15.0
Maximum Dry Density (pcf):	110.6
95% of MDD (pcf):	105.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3206.30
Compaction Moisture content (%):	14.6
Compaction Wet Density (pcf):	123.57
Compaction Dry Density (pcf):	107.83
Moisture Content After Mr Test (%):	14.6

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

#VALUE!

7. Resilient Modulus, Mr:

5952(Sc)^{-0.03587}(S3)^{0.42012}

8. Comments

9. Tested By:

C.GARRETT

Date: May 26, 2016

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

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

Job No. BB0302 **Material Code** SSRVPS
Date Sampled: 5/11/16 **Station No.:** 560+80
Date Tested: May 26, 2016 **Location:** CL

Name of Project: HWY.67 - WEST OF RED RIVER (S)
County: Code: 46 **Name:** MILLER
Sampled By: D.THORTON **Depth:** 0-5'
Lab No.: 20161419 **AASHTO Class:** A-4(0)
Sample ID: RV235 **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	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.5	22.7	2.8	2.1	1.8	0.2	0.00118	0.00015	12,417
Sequence 2	6.0	4.0	48.1	45.3	2.8	3.9	3.7	0.2	0.00243	0.00030	12,076
Sequence 3	6.0	6.0	71.5	67.8	3.8	5.8	5.5	0.3	0.00359	0.00045	12,224
Sequence 4	6.0	8.0	96.1	90.0	6.2	7.8	7.3	0.5	0.00485	0.00061	12,017
Sequence 5	6.0	10.0	120.6	111.9	8.7	9.8	9.1	0.7	0.00620	0.00078	11,679
Sequence 6	4.0	2.0	25.2	22.4	2.8	2.0	1.8	0.2	0.00138	0.00017	10,500
Sequence 7	4.0	4.0	47.4	44.6	2.9	3.8	3.6	0.2	0.00296	0.00037	9,758
Sequence 8	4.0	6.0	69.4	66.5	2.9	5.6	5.4	0.2	0.00446	0.00056	9,664
Sequence 9	4.0	8.0	94.2	88.8	5.4	7.6	7.2	0.4	0.00585	0.00073	9,828
Sequence 10	4.0	10.0	118.4	110.6	7.9	9.6	8.9	0.6	0.00730	0.00091	9,807
Sequence 11	2.0	2.0	24.8	22.1	2.8	2.0	1.8	0.2	0.00177	0.00022	8,068
Sequence 12	2.0	4.0	45.9	43.1	2.8	3.7	3.5	0.2	0.00377	0.00047	7,405
Sequence 13	2.0	6.0	67.2	64.3	2.9	5.4	5.2	0.2	0.00567	0.00071	7,340
Sequence 14	2.0	8.0	90.6	86.1	4.5	7.3	7.0	0.4	0.00733	0.00092	7,609
Sequence 15	2.0	10.0	113.3	106.3	7.0	9.2	8.6	0.6	0.00910	0.00114	7,559

TESTED BY C.GARRETT DATE May 26, 2016
 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.	BB0302	Material Code	SSRVPS
Date Sampled:	5/11/16	Station No.:	560+80
Date Tested:	May 26, 2016	Location:	CL
Name of Project:	HWY.67 - WEST OF RED RIVER (S)		
County:	Code: 46	Name:	MILLER
Sampled By:	D.THORTON	Depth:	0-5'
Lab No.:	20161419	AASHTO Class:	A-4(0)
Sample ID:	RV235	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

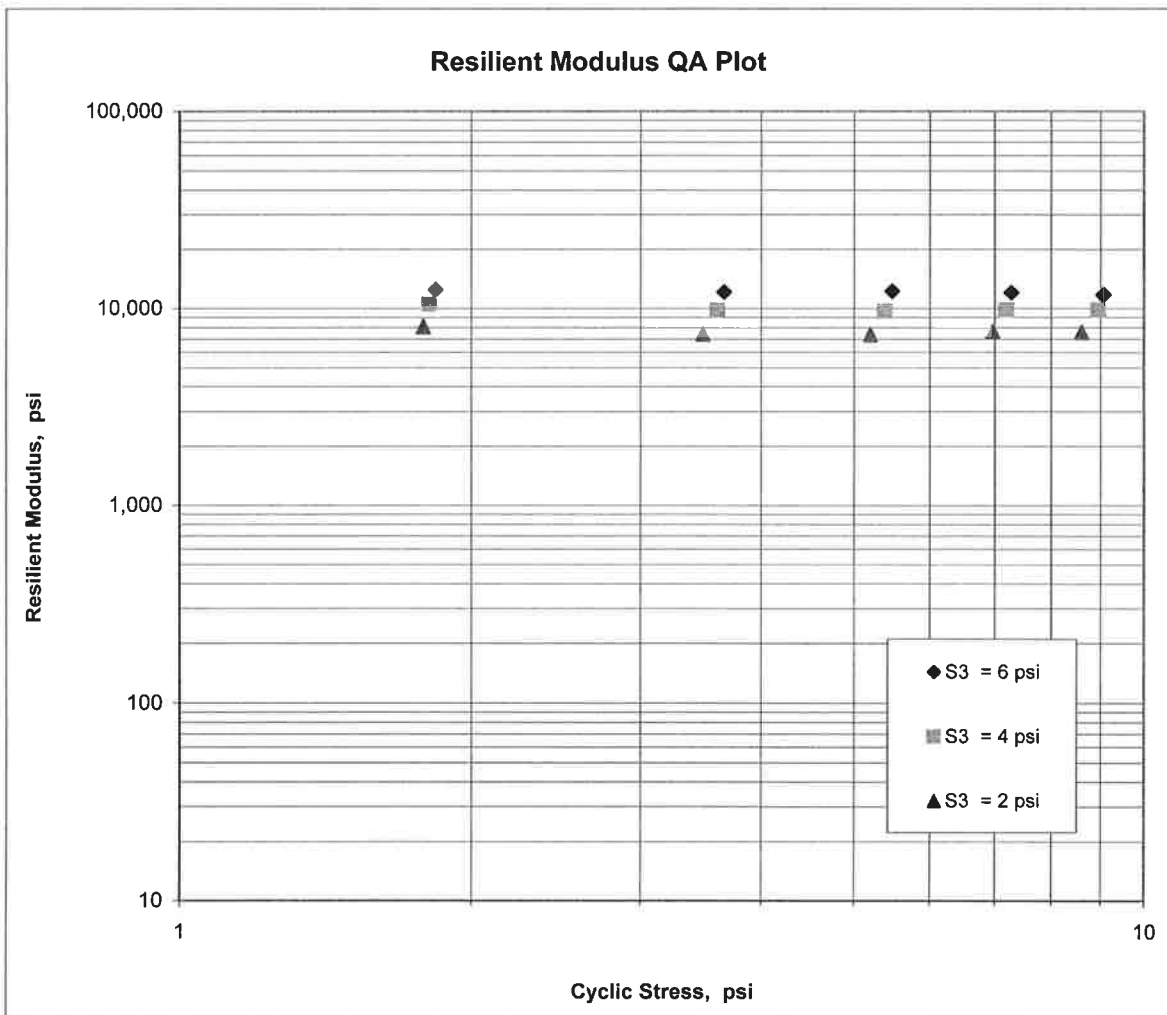
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = \underline{5,952}$$

$$K_2 = \underline{-0.03587}$$

$$K_5 = \underline{0.42012}$$

$$R^2 = \underline{0.99}$$



JOB: BB0302
JOB NAME: HWY.67 - WEST OF RED RIVER (S)

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

DATE TESTED
5/16/2016

COUNTY NO. 46

STA.# LOC.

PAVEMENT SOUNDINGS

398+05	55RT	PCCP	COGB	5.5
		12		
398+05	55LT	PCCP	COGB	
		13		
411+25	55LT	PCCP	COGB	
		13		
411+25	55RT	PCCP	COGB	5.5
		12		
424+45	55LT	PCCP	COGB	
		13.25		
424+45	55RT	PCCP	COGB	
		13		5
437+65	55LT	PCCP	COGB	
		12.75		
437+65	55RT	PCCP	COGB	5.5
		12.75		
450+85	55LT	PCCP	COGB	
		12.75		
450+85	55RT	PCCP	COGB	
		11.5		
464+05	55RT	PCCP	COGB	
		12		
464+05	55LT	PCCP	COGB	
		12.25		
477+25	55LT	PCCP	COGB	
		12.25		
477+25	55RT	PCCP	COGB	
		12.5		
490+45	55LT	PCCP	COGB	
		13		
490+45	55RT	PCCP	COGB	
		11		
503+65	55LT	PCCP	COGB	
		12		

Comments: COGB= CEMENT OPEN GRADED BASE

Tuesday, May 31, 2016

503+65	55RT	PCCP	COGB
	14		
516+85	55RT	PCCP	COGB
	12.25		
516+85	55LT	PCCP	COGB
	12.75		
530+05	55LT	PCCP	COGB
	12.5		
530+05	55RT	PCCP	COGB
	12.5		
543+25	55LT	PCCP	COGB
	12.5		
543+25	55RT	PCCP	COGB
	12.25		
556+45	55LT	PCCP	COGB
	12.5		
556+45	55RT	PCCP	COGB
	12.75		
569+65	55LT	PCCP	COGB
	12		
569+65	55RT	PCCP	COGB
	12.75		
582+85	55RT	PCCP	COGB
	12.5		
582+85	55LT	PCCP	COGB
	12.25		
596+05	55LT	PCCP	COGB
	12		
596+05	55RT	PCCP	COGB
	12		
609+25	55LT	PCCP	COGB
	12.75		
609+25	55RT	PCCP	COGB
	12		
622+45	55RT	PCCP	COGB
	13		
622+45	55LT	PCCP	COGB
	12		

Comments: COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16	SEQUENCE NO.	- 1
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

	20161380	20161381	20161382
LAB NUMBER	- 20161380	- 20161381	- 20161382
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 398+05	- 398+05	- 411+25
LOCATION	- 55LT	- 55RT	- 55LT
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 33 1.80	- 33 33 .90	- 33 33 9.30
LONGITUDE DEG-MIN-SEC	- 93 52 14.40	- 93 52 14.10	- 93 52 2.60
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	-	-	-
NO. 10	-	-	-
NO. 40	-	-	-
NO. 80	-	-	-
NO. 200	-	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
PCCP (IN)	- 13	- 12	- 13
COGB (IN)	- ---	- 5.5	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
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	-	-	-
	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 05/16/16 SEQUENCE NO. - 2
JOB NUMBER - BB0302 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 46
SUPPLIER NAME - STATE DISTRICT NO. - 03
NAME OF PROJECT - HWY.67 - WEST OF RED RIVER (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - MILLER COUNTY DATE SAMPLED - 05/11/16
SAMPLED BY - D.THORTON DATE RECEIVED - 05/16/16
SAMPLE FROM - TEST HOLE DATE TESTED - 05/16/16
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20161383	-	20161384	-	20161385
SAMPLE ID	-	-	-	-	-	-
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	411+25	-	424+45	-	424+45
LOCATION	-	55RT	-	55LT	-	55RT
DEPTH IN FEET	-	-	-	-	-	-
MAT'L COLOR	-	-	-	-	-	-
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	33 33 8.90	-	33 33 19.60	-	33 33 19.30
LONGITUDE DEG-MIN-SEC	-	93 52 1.50	-	93 51 53.30	-	93 51 52.10
% PASSING	2	IN.	-	-	-	-
	1 1/2	IN.	-	-	-	-
	3/4	IN.	-	-	-	-
	3/8	IN.	-	-	-	-
	NO.	4	-	-	-	-
	NO.	10	-	-	-	-
	NO.	40	-	-	-	-
	NO.	80	-	-	-	-
	NO.	200	-	-	-	-
LIQUID LIMIT	-	-	-	-	-	-
PLASTICITY INDEX	-	-	-	-	-	-
AASHTO SOIL	-	-	-	-	-	-
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	-	-	-	-	-
PCCP	(IN)	12	-	13.25	-	13
COGB	(IN)	5.5	-	---	-	5
			-		-	
			-		-	
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REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16		SEQUENCE NO.	- 3
JOB NUMBER	- BB0302		MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED		SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE		SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK		COUNTY/STATE	- 46
SUPPLIER NAME	- STATE		DISTRICT NO.	- 03
NAME OF PROJECT - HWY.67 - WEST OF RED RIVER (S)				
PROJECT ENGINEER - NOT APPLICABLE				
PIT/QUARRY - ARKANSAS				
LOCATION	- MILLER COUNTY		DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON		DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE		DATE TESTED	- 05/16/16
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS				

LAB NUMBER	-	20161386	-	20161387	-	20161388	
SAMPLE ID	-		-		-		
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	437+65	-	437+65	-	450+85	
LOCATION	-	55LT	-	55RT	-	55LT	
DEPTH IN FEET	-		-		-		
MAT'L COLOR	-		-		-		
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	33 33 30.00	-	33 33 29.70	-	33 33 40.30	
LONGITUDE DEG-MIN-SEC	-	93 51 43.80	-	93 51 42.60	-	93 51 34.40	
% PASSING	2	IN.	-		-		
	1 1/2	IN.	-		-		
	3/4	IN.	-		-		
	3/8	IN.	-		-		
	NO.	4	-		-		
	NO.	10	-		-		
	NO.	40	-		-		
	NO.	80	-		-		
	NO.	200	-		-		
LIQUID LIMIT	-		-		-		
PLASTICITY INDEX	-		-		-		
AASHTO SOIL	-		-		-		
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-		-		-		
PCCP	(IN)	-	12.75	-	12.75	-	12.75
COGB	(IN)	-	---	-	5.5	-	---
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
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REMARKS - COGB= CEMENT OPEN GRADED BASE

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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 - 05/16/16 SEQUENCE NO. - 4
JOB NUMBER - BB0302 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 46
SUPPLIER NAME - STATE DISTRICT NO. - 03
NAME OF PROJECT - HWY.67 - WEST OF RED RIVER (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - MILLER COUNTY DATE SAMPLED - 05/11/16
SAMPLED BY - D.THORTON DATE RECEIVED - 05/16/16
SAMPLE FROM - TEST HOLE DATE TESTED - 05/16/16
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20161389	-	20161390	-	20161391
SAMPLE ID	-		-		-	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	450+85	-	464+05	-	464+05
LOCATION	-	55RT	-	55LT	-	55RT
DEPTH IN FEET	-		-		-	
MAT'L COLOR	-		-		-	
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 33 39.90	-	33 33 50.60	-	33 33 50.30
LONGITUDE DEG-MIN-SEC	-	93 51 33.40	-	93 51 25.00	-	93 51 24.00
% PASSING	2	IN. -				
	1 1/2	IN. -				
	3/4	IN. -				
	3/8	IN. -				
	NO. 4	-				
	NO. 10	-				
	NO. 40	-				
	NO. 80	-				
	NO. 200	-				
LIQUID LIMIT	-		-		-	
PLASTICITY INDEX	-		-		-	
AASHTO SOIL	-		-		-	
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-		-		-	
PCCP	(IN) -	11.5	-	12.25	-	12
COGB	(IN) -	---	-	---	-	---
	-		-		-	
	-		-		-	
	-		-		-	
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REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16	SEQUENCE NO.	- 5
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20161392	-	20161393	-	20161394	
SAMPLE ID	-	-	-	-	-	-	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	477+25	-	477+25	-	490+45	
LOCATION	-	55LT	-	55RT	-	55LT	
DEPTH IN FEET	-	-	-	-	-	-	
MAT'L COLOR	-	-	-	-	-	-	
MAT'L TYPE	-	-	-	-	-	-	
LATITUDE DEG-MIN-SEC	-	33 34 .90	-	33 34 .60	-	33 34 21.20	
LONGITUDE DEG-MIN-SEC	-	93 51 15.60	-	93 51 14.50	-	93 50 55.70	
% PASSING	2	IN.	-	-	-	-	
	1 1/2	IN.	-	-	-	-	
	3/4	IN.	-	-	-	-	
	3/8	IN.	-	-	-	-	
	NO. 4		-	-	-	-	
	NO. 10		-	-	-	-	
	NO. 40		-	-	-	-	
	NO. 80		-	-	-	-	
	NO. 200		-	-	-	-	
LIQUID LIMIT	-	-	-	-	-	-	
PLASTICITY INDEX	-	-	-	-	-	-	
AASHTO SOIL	-	-	-	-	-	-	
UNIFIED SOIL	-	-	-	-	-	-	
% MOISTURE CONTENT	-	-	-	-	-	-	
PCCP	(IN)	-	12.25	-	12.5	-	13
COGB	(IN)	-	---	-	---	-	---
		-	-	-	-	-	-
		-	-	-	-	-	-
		-	-	-	-	-	-
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REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 05/16/16 SEQUENCE NO. - 6
JOB NUMBER - BB0302 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 46
SUPPLIER NAME - STATE DISTRICT NO. - 03
NAME OF PROJECT - HWY.67 - WEST OF RED RIVER (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - MILLER COUNTY DATE SAMPLED - 05/11/16
SAMPLED BY - D.THORTON DATE RECEIVED - 05/16/16
SAMPLE FROM - TEST HOLE DATE TESTED - 05/16/16
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20161395	20161396	20161397
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 490+45	- 503+65	- 503+65
LOCATION	- 55RT	- 55LT	- 55RT
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 34 10.80	- 33 34 21.60	- 33 34 21.20
LONGITUDE DEG-MIN-SEC	- 93 51 5.20	- 93 50 56.80	- 93 50 55.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	-	-	-
NO. 10	-	-	-
NO. 40	-	-	-
NO. 80	-	-	-
NO. 200	-	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
PCCP (IN)	- 11	- 12	- 14
COGB (IN)	- ---	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16	SEQUENCE NO.	- 7
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER		20161398		20161399		20161400
SAMPLE ID		-		-		-
TEST STATUS		- INFORMATION ONLY		- INFORMATION ONLY		- INFORMATION ONLY
STATION		- 516+85		- 516+85		- 530+05
LOCATION		- 55LT		- 55RT		- 55LT
DEPTH IN FEET		-		-		-
MAT'L COLOR		-		-		-
MAT'L TYPE		-		-		-
LATITUDE DEG-MIN-SEC		- 33 34 32.10		- 33 34 31.70		- 33 34 43.60
LONGITUDE DEG-MIN-SEC		- 93 50 47.80		- 93 50 46.80		- 93 50 40.80
% PASSING	2 IN.	-		-		-
	1 1/2 IN.	-		-		-
	3/4 IN.	-		-		-
	3/8 IN.	-		-		-
	NO. 4	-		-		-
	NO. 10	-		-		-
	NO. 40	-		-		-
	NO. 80	-		-		-
	NO. 200	-		-		-
LIQUID LIMIT		-		-		-
PLASTICITY INDEX		-		-		-
AASHTO SOIL		-		-		-
UNIFIED SOIL		-		-		-
% MOISTURE CONTENT		-		-		-
PCCP	(IN)	- 12.75		- 12.25		- 12.5
COGB	(IN)	- ---		- ---		- ---
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-
		-		-		-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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	- 05/16/16	SEQUENCE NO.	- 8
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	20161401	20161402	20161403
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 530+05	- 543+25	- 543+25
LOCATION	- 55RT	- 55LT	- 55RT
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 34 43.20	- 33 34 55.30	- 33 34 54.80
LONGITUDE DEG-MIN-SEC	- 93 50 39.80	- 93 50 34.00	- 93 50 33.00
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	-	-	-
NO. 10	-	-	-
NO. 40	-	-	-
NO. 80	-	-	-
NO. 200	-	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
PCCP (IN)	- 12.5	- 12.5	- 12.25
COGB (IN)	- ---	- ---	- ---
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16	SEQUENCE NO.	- 9
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	20161404	20161405	20161406
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 556+45	- 556+45	- 569+65
LOCATION	- 55LT	- 55RT	- 55LT
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 35 9.80	- 33 35 6.30	- 33 35 19.50
LONGITUDE DEG-MIN-SEC	- 93 50 25.40	- 93 50 25.20	- 93 50 14.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 -	-	-
	NO. 10 -	-	-
	NO. 40 -	-	-
	NO. 80 -	-	-
	NO. 200 -	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
PCCP	(IN) - 12.5	- 12.75	- 12
COGB	(IN) - ---	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 05/16/16 SEQUENCE NO. - 10
 JOB NUMBER - BB0302 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 46
 SUPPLIER NAME - STATE DISTRICT NO. - 03
 NAME OF PROJECT - HWY.67 - WEST OF RED RIVER (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - MILLER COUNTY DATE SAMPLED - 05/11/16
 SAMPLED BY - D.THORTON DATE RECEIVED - 05/16/16
 SAMPLE FROM - TEST HOLE DATE TESTED - 05/16/16
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20161407	20161408	20161409
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 569+65	- 582+85	- 582+85
LOCATION	- 55RT	- 55LT	- 55RT
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 35 16.10	- 33 35 29.20	- 33 35 25.70
LONGITUDE DEG-MIN-SEC	- 93 50 15.00	- 93 50 4.50	- 93 50 4.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	-	-	-
NO. 10	-	-	-
NO. 40	-	-	-
NO. 80	-	-	-
NO. 200	-	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
PCCP (IN)	- 12.75	- 12.25	- 12.5
COGB (IN)	- ---	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16	SEQUENCE NO.	- 11
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20161410	-	20161411	-	20161412
SAMPLE ID	-	-	-	-	-	-
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	596+05	-	596+05	-	609+25
LOCATION	-	55LT	-	55RT	-	55LT
DEPTH IN FEET	-	-	-	-	-	-
MAT'L COLOR	-	-	-	-	-	-
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	33 35 38.70	-	33 35 35.30	-	33 35 48.00
LONGITUDE DEG-MIN-SEC	-	93 49 54.20	-	93 49 54.30	-	93 49 43.10
% PASSING	2	IN.	-	-	-	-
	1 1/2	IN.	-	-	-	-
	3/4	IN.	-	-	-	-
	3/8	IN.	-	-	-	-
	NO. 4	-	-	-	-	-
	NO. 10	-	-	-	-	-
	NO. 40	-	-	-	-	-
	NO. 80	-	-	-	-	-
	NO. 200	-	-	-	-	-
LIQUID LIMIT	-	-	-	-	-	-
PLASTICITY INDEX	-	-	-	-	-	-
AASHTO SOIL	-	-	-	-	-	-
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	-	-	-	-	-
PCCP	(IN)	12	-	12	-	12.75
COGB	(IN)	---	-	---	-	---
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 05/16/16	SEQUENCE NO.	- 12
JOB NUMBER	- BB0302	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/16/16
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20161413	- 20161414	- 20161415
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 609+25	- 622+45	- 622+45
LOCATION	- 55RT	- 55LT	- 55RT
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 35 45.00	- 33 35 57.80	- 33 35 54.60
LONGITUDE DEG-MIN-SEC	- 93 49 43.80	- 93 49 33.40	- 93 49 32.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 -	-	-
	NO. 10 -	-	-
	NO. 40 -	-	-
	NO. 80 -	-	-
	NO. 200 -	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
PCCP	(IN) - 12	- 12	- 13
COGB	(IN) - ---	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - COGB= CEMENT OPEN GRADED BASE
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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 - 05/31/16 SEQUENCE NO. - 1
JOB NUMBER - BB0302 MATERIAL CODE - RV
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 46
SUPPLIER NAME - STATE DISTRICT NO. - 03
NAME OF PROJECT - HWY.67 - WEST OF RED RIVER (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - MILLER COUNTY DATE SAMPLED - 05/11/16
SAMPLED BY - D.THORTON DATE RECEIVED - 05/16/16
SAMPLE FROM - TEST HOLE DATE TESTED - 05/31/16
MATERIAL DESC. - SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS

LAB NUMBER	20161416	20161417	20161418
SAMPLE ID	RV232	RV233	RV234
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	412+00	447+00	495+80
LOCATION	CL	CL	CL
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	RD/BR	RD/BR	RD/BR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	33 33 6.00	33 33 30.80	33 34 12.20
LONGITUDE DEG-MIN-SEC	93 52 5.10	93 51 42.10	93 51 4.40
% PASSING			
2 IN.			
1 1/2 IN.	100		100
3/4 IN.	94	100	92
3/8 IN.	89	99	77
NO. 4	88	98	74
NO. 10	86	98	73
NO. 40	82	95	72
NO. 80	70	85	69
NO. 200	59	73	65
LIQUID LIMIT	ND	ND	ND
PLASTICITY INDEX	NP	NP	NP
AASHTO SOIL	A-4 (0)	A-4 (0)	A-4 (0)
UNIFIED SOIL			
% MOISTURE CONTENT			

REMARKS -

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	- 05/31/16	SEQUENCE NO.	- 2
JOB NUMBER	- BB0302	MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 46
SUPPLIER NAME	- STATE	DISTRICT NO.	- 03
NAME OF PROJECT	- HWY.67 - WEST OF RED RIVER (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MILLER COUNTY	DATE SAMPLED	- 05/11/16
SAMPLED BY	- D.THORTON	DATE RECEIVED	- 05/16/16
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 05/31/16
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE	ACTUAL RESULTS	

LAB NUMBER	-	20161419	-	-
SAMPLE ID	-	RV235	-	-
TEST STATUS	-	INFORMATION ONLY	-	-
STATION	-	560+80	-	-
LOCATION	-	CL	-	-
DEPTH IN FEET	-	0-5	-	-
MAT'L COLOR	-	RD/BR	-	-
MAT'L TYPE	-		-	-
LATITUDE DEG-MIN-SEC	-	33 34 56.50	-	-
LONGITUDE DEG-MIN-SEC	-	93 50 32.40	-	-
% PASSING	2	IN.	-	-
	1 1/2	IN.	-	-
	3/4	IN.	-	-
	3/8	IN.	-	-
		100	-	-
	NO. 4	99	-	-
	NO. 10	99	-	-
	NO. 40	98	-	-
	NO. 80	94	-	-
	NO. 200	80	-	-
LIQUID LIMIT	-	ND	-	-
PLASTICITY INDEX	-	NP	-	-
AASHTO SOIL	-	A-4 (0)	-	-
UNIFIED SOIL	-		-	-
% MOISTURE CONTENT	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-

REMARKS -
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AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

June 4, 2015

TO: Mr. Michael Kelly, Division Head – System Information and Research

SUBJECT: Pavement Soundings
BB0302
Hwy. 67 – West of Red River (S)
Route 30 Section 11
Miller County

Attached is the pavement sounding information conducted for Interstate 30 as requested by your office. Samples were taken at ¼ mile increments in the Outside Wheel Path of the east and west bound lanes. Stations are noted as log miles and locations indicate west and east bound travel lane. Between log mile 11.5 to 15.5 cement open graded base was below the concrete pavement, from log mile 15.75 to 16.0 asphalt open graded base was below the concrete pavement.


Michael C. Benson
Materials Engineer

MCB:bj

G.C. File

Pavement Soundings
Hwy. 67 - West of Red River (S)
Route: 30; Section: 11
Miller County
Log Mile 11.5 to 16.0

Log Mile	Location Lane	Layer/Thickness	
		PCCP (in.)	COGB (in.)
11.50	E.B. OWP	12.00	5.50
11.50	W.B. OWP	12.25	
11.75	E.B. OWP	12.00	5.50
11.75	W.B. OWP	13.00	
12.00	E.B. OWP	12.00	5.50
12.00	W.B. OWP	13.00	
12.25	E.B. OWP	13.00	5.00
12.25	W.B. OWP	13.25	
12.50	E.B. OWP	12.75	5.50
12.50	W.B. OWP	12.75	
12.75	E.B. OWP	11.50	
12.75	W.B. OWP	12.75	
13.00	E.B. OWP	12.00	
13.00	W.B. OWP	12.25	
13.25	E.B. OWP	12.50	
13.25	W.B. OWP	12.25	
13.50	E.B. OWP	11.00	
13.50	W.B. OWP	13.00	
13.75	E.B. OWP	14.00	
13.75	W.B. OWP	12.00	
14.00	E.B. OWP	12.25	
14.00	W.B. OWP	12.75	
14.25	E.B. OWP	12.50	
14.25	W.B. OWP	12.50	
14.50	E.B. OWP	12.25	
14.50	W.B. OWP	12.50	
14.75	E.B. OWP	12.75	
14.75	W.B. OWP	12.50	
15.00	E.B. OWP	12.75	
15.00	W.B. OWP	12.00	
15.25	E.B. OWP	12.50	
15.25	W.B. OWP	12.25	
15.50	E.B. OWP	12.00	
15.50	W.B. OWP	12.00	
15.75	E.B. OWP	12.00	
15.75	W.B. OWP	12.75	
16.00	E.B. OWP	13.00	
16.00	W.B. OWP	12.00	

COGB = Cement Open Graded Base