

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT



SUBSURFACE INVESTIGATION

STATE JOB NO. 012007

FEDERAL AID PROJECT NO. STPC-9399(8)

RANDALL WOBBE LANE – HWY. 264 (SPRINGDALE) (S)

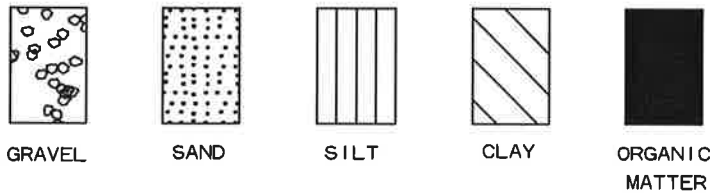
STATE HIGHWAY 265 SECTION 2 & 3

IN BENTON & WASHINGTON COUNTY

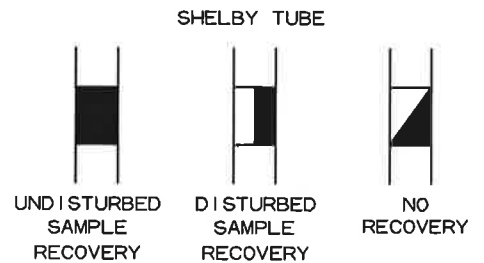
The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the 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.

LEGEND

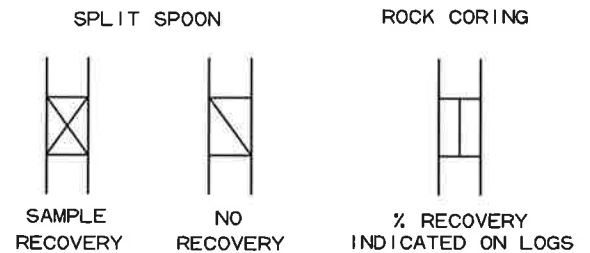
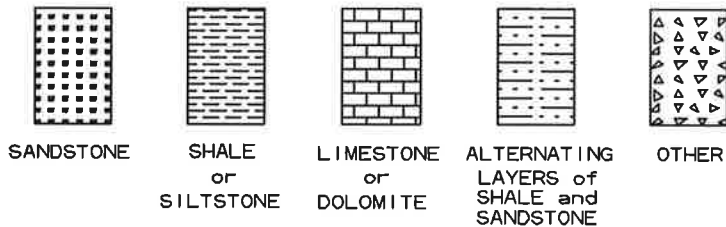
SOIL TYPES (SHOWN IN SYMBOL COLUMN) (PREDOMINANT TYPE SHOWN HEAVY)



SAMPLER TYPES (SHOWN IN SAMPLE COLUMN)



ROCK TYPES (SHOWN IN SYMBOL COLUMN)



TERMS DESCRIBING CONSISTENCY OR CONDITION

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

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

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

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

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

May 13, 2009

TO: Mr. Charles Clements, Engineer of Roadway Design

SUBJECT: Job No.012007
Randall Wobbe Lane – Hwy. 264 (Springdale) (S)
Route: 265, Sections: 2&3
Washington & Benton County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The proposed project consists of relocating a two mile section of Highway 265. Design profile and cross sections were not available, but only very minor amounts of cut and fill are anticipated.

Laboratory results indicate low to moderate plasticity clays with considerable gravel contents within the project limits. Due to the cherty (gravelly) nature of the soils, this project is not anticipated to require widespread stabilization or undercut. The existing material should provide a stable working platform with conventional processing. However, if subgrade preparation must be performed during adverse weather conditions, stabilization may be necessary in some locations.

The pond at Station 195+00 is located 80 feet left of centerline based on the revised plans received from Roadway Design on January 23, 2009. The pond is outside of the Right of Way and Construction limits, but the pond levees may seep and cause wet conditions within the project limits. Due to the low probability of this to occur, it is recommended that this issue be addressed during construction if necessary. If the alignment is moved closer to the pond, the Materials Division can provide recommendations for remediation measures to be included in the plans.

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 Lowell.
2. Asphalt Concrete Hot Mix

<u>Type</u>	<u>Asphalt Cement%</u>	<u>Mineral Aggregate%</u>
Surface Course	6.0	94.0
Binder Course	5.0	95.0
Base Course	4.5	95.5


Michael C. Benson
Materials Engineer

MCB:dsr:bj
Attachment

cc: State Constr. Eng. – Master File Copy
District 4 Engineer
District 9 Engineer
Planning Div. – Jared Wiley
G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
 MATERIALS DIVISION
 MICHAEL BENSON, MATERIALS ENGINEER
SOIL SURVEY REVIEW
JOB 012007

DATE TESTED
4/9/2009
COUNTY NO. 76

JOB NAME RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)

DOCK #	SAMPLE #	STA #	LOC.	SOIL CLASS	FIELD MOIST.	%pass.#200	L.L.	P.I.
20090800	S187	101+00	15'LT *	A-6(6)	23.1	79	26	11
20090801	S188	101+00	41'LT *	A-6(15)	22.6	82	35	20
20090802	S189	115+00	24'RT **	A-4(4)	16	79	23	8
20090803	S190	115+00	34'RT *	A-6(5)	15.1	58	28	13
20090804	S191	115+00	41'LT A	A-4(0)	17.6	59	19	4
20090805	S192	115+00	24'RT A	A-4(2)	16.8	57	22	8
20090806	S193	115+00	32'RT A	A-6(5)	14.2	69	25	11
20090807	S194	123+00	CL *	A-6(11)	20.6	84	31	15
20090808	S195	131+00	CL *	A-4(2)	19.4	64	23	8
20090809	S196	139+00	50'RT	A-6(5)	17	57	27	14
20090810	S197	139+00	CL	A-6(9)	20.1	64	34	19
20090811	S198	147+00	20'RT	A-6(7)	17.4	64	32	15
20090812	S199	155+00	19'RT	A-6(10)	18.9	76	29	16
20090813	S200	155+00	CL	A-6(10)	17.8	68	31	19
20090814	S201	163+00	18'RT	A-6(2)	11.8	51	24	11
20090815	S202	163+00	CL	A-6(3)	14.3	51	26	12
20090816	S203	171+00	7'RT	A-4(5)	21.8	77	24	10
20090817	S204	171+00	CL	A-6(5)	17.4	67	25	12
20090818	S205	179+00	CL	A-4(4)	21.2	86	23	7
20090819	S206	187+00	CL	A-4(4)	21.8	89	24	6
20090820	S207	195+00	CL	A-6(6)	14.9	74	26	11
20090821	S208	203+00	CL	A-6(18)	22	84	36	24
20090822	S209	211+00	CL	A-4(2)	13.8	55	28	9
20090823	S201	219+00	4'LT	A-6(10)	17.2	57	36	22
20090824	S211	219+00	17'LT	A-6(10)	15.7	63	34	21
20090825	RV212	123+00	CL	A-6(7)		85	27	11
20090826	RV213	203+00	CL	A-6(16)		80	35	22

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

DATE - 05/11/2009 SEQUENCE NO. - 1
JOB NUMBER - 012007 MATERIAL CODE - SSRVPS
SPEC. YEAR - 2003
SUPPLIER ID. - 1
COUNTY/STATE - 76
DISTRICT NO. - XX

JOB NAME - RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB	15
RESILIENT MODULUS	
STA.123+00	7292
STA.203+00	10290

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.	012007	Material Code	SSRVPS
Date Sampled:	4/15/2009	Station No.:	123+00
Date Tested:	April 15, 2009	Location:	CL
Name of Project:	RANDALL WOBBE-WOBBE LANE HWY.264 (SPRINGDALE)(S)		
County:	Code: 72	Name:	WASHINGTON
Sampled By:		Depth:	0-5
Lab No.:	20090825	AASHTO Class:	A-6(7)
Sample ID:	RV212	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	3.95
Bottom	3.97
Average	3.96
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	8.04
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.04
Initial Area, Ao (sq. in):	12.34
Initial Volume, AoLo (cu. in):	99.19

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3187.80
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4. Soil Properties:

Optimum Moisture Content (%):	15.7
Maximum Dry Density (pcf):	109.8
95% of MDD (pcf):	104.3
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3187.80
Compaction Moisture content (%):	15.1
Compaction Wet Density (pcf):	122.45
Compaction Dry Density (pcf):	106.39
Moisture Content After Mr Test (%):	15.2

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

7. Resilient Modulus, Mr: 8328(Sc)^{-0.17546}(S3)^{0.32350}

8. Comments _____

9. Tested By: DEB **Date:** April 15, 2009

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

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

Job No. 012007 **Material Code** SSRVPS
Date Sampled: 4/15/2009 **Station No.:** 123+00
Date Tested: April 15, 2009 **Location:** CL
Name of Project: RANDALL WOBBE-WOBBE LANE HWY.264 (SPRINGDALE)(S)
County: Code: 72 **Name:** WASHINGTON
Sampled By: Depth: 0-5
Lab No.: 20090825 **AASHTO Class:** A-6(7)
Sample ID: RV212 **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
			P _{max} lbs	S _{cyclic} psi	P _{cyclic} lbs	P _{contact} lbs							
Sequence 1	6.0	2.0	25.3	2.0	22.6	2.7	2.7	2.1	1.8	0.2	0.00110	0.00014	13,386
Sequence 2	6.0	4.0	47.4	4.0	44.7	2.7	2.7	3.8	3.6	0.2	0.00232	0.00029	12,533
Sequence 3	6.0	6.0	69.7	6.0	66.1	3.6	3.6	5.7	5.4	0.3	0.00369	0.00046	11,685
Sequence 4	6.0	8.0	92.6	8.0	86.5	6.1	6.1	7.5	7.0	0.5	0.00534	0.00066	10,559
Sequence 5	6.0	10.0	114.7	10.0	106.0	8.7	8.7	9.3	8.6	0.7	0.00704	0.00088	9,822
Sequence 6	4.0	2.0	25.0	2.0	22.4	2.7	2.7	2.0	1.8	0.2	0.00129	0.00016	11,269
Sequence 7	4.0	4.0	46.5	4.0	43.8	2.7	2.7	3.8	3.5	0.2	0.00276	0.00034	10,330
Sequence 8	4.0	6.0	67.2	6.0	64.4	2.8	2.8	5.4	5.2	0.2	0.00434	0.00054	9,675
Sequence 9	4.0	8.0	89.9	8.0	84.6	5.3	5.3	7.3	6.9	0.4	0.00606	0.00075	9,104
Sequence 10	4.0	10.0	112.4	10.0	104.6	7.8	7.8	9.1	8.5	0.6	0.00786	0.00098	8,676
Sequence 11	2.0	2.0	24.7	2.0	22.0	2.7	2.7	2.0	1.8	0.2	0.00153	0.00019	9,342
Sequence 12	2.0	4.0	45.4	4.0	42.6	2.8	2.8	3.7	3.5	0.2	0.00327	0.00041	8,499
Sequence 13	2.0	6.0	65.3	6.0	62.4	2.8	2.8	5.3	5.1	0.2	0.00514	0.00064	7,916
Sequence 14	2.0	8.0	86.6	8.0	82.1	4.5	4.5	7.0	6.7	0.4	0.00705	0.00088	7,582
Sequence 15	2.0	10.0	108.6	10.0	101.6	7.0	7.0	8.8	8.2	0.6	0.00908	0.00113	7,292

TESTED BY _____ **DATE** April 15, 2009
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. 012007 Material Code SSRVPS
Date Sampled: 4/15/2009 Station No.: 123+00
Date Tested: April 15, 2009 Location: CL
Name of Project: RANDALL WOBBE-WOBBE LANE HWY.264 (SPRINGDALE)(S)
County: Code: 72 Name: WASHINGTON
Sampled By: Depth: 0-5
Lab No.: 20090825 AASHTO Class: A-6(7)
Sample ID: RV212 Material Type (1 or 2): 2
LATITUDE: LONGITUDE:

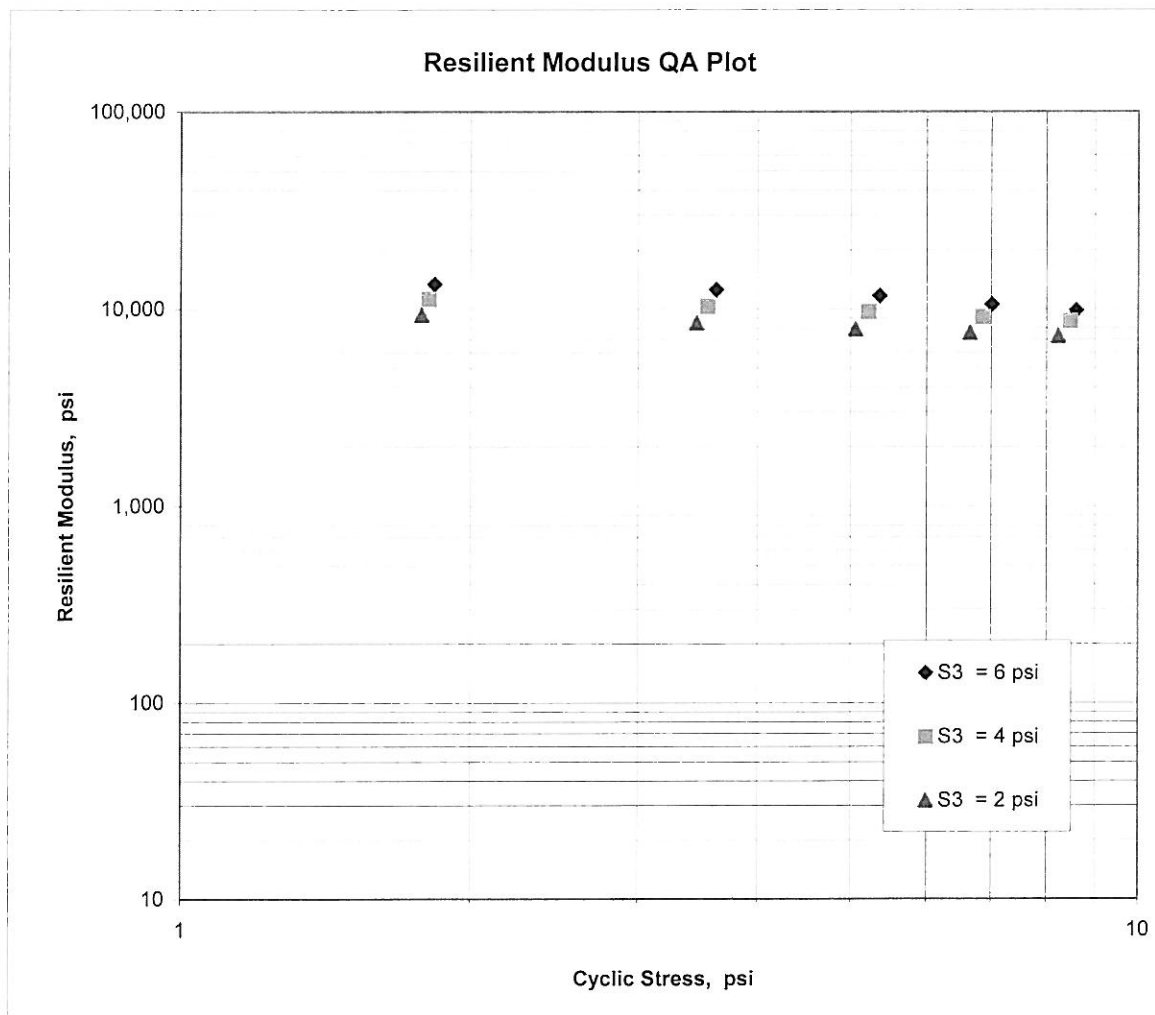
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 8,328$$

$$K_2 = -0.17546$$

$$K_5 = 0.32350$$

$$R^2 = 0.97$$



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

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

Job No.	012007	Material Code	SSRVPS
Date Sampled:	4/21/2009	Station No.:	203+00
Date Tested:	April 22, 2009	Location:	CL
Name of Project:	RANDALL WOBBE LANE-HWY.264 (SPRINGDALE)(S)		
County:	Code: 72	Name:	WASHINGTON
Sampled By:		Depth:	0-5
Lab No.:	20090825	AASHTO Class:	A-6(16)
Sample ID:	RV213	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	3.95
Average	3.95
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):	12.27
Initial Volume, AoLo (cu. in):	98.20

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3273.00
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4. Soil Properties:

Optimum Moisture Content (%):	17.0
Maximum Dry Density (pcf):	107.9
95% of MDD (pcf):	102.5
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3273.00
Compaction Moisture content (%):	16.8
Compaction Wet Density (pcf):	127.00
Compaction Dry Density (pcf):	108.73
Moisture Content After Mr Test (%):	16.7

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

7. Resilient Modulus, Mr: 13391(Sc)^-0.19630(S3)^0.22812

8. Comments _____

9. Tested By: DEB **Date:** April 22, 2009

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

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

Job No.	012007	Material Code	SSRVPS
Date Sampled:	4/21/2009	Station No.:	203+00
Date Tested:	April 22, 2009	Location:	CL
Name of Project:	RANDALL WOBBE LANE-HWY.264 (SPRINGDALE)(S)		
County:	Code: 72	Name:	WASHINGTON
Sampled By:			
Lab No.:	20090825	Depth:	0-5
Sample ID:	RV213	AASHTO Class:	A-6(16)
LATITUDE:		Material Type (1 or 2):	2
		LONGITUDE:	

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	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	24.9	22.1	2.8	2.0	1.8	0.2	0.0081	0.00010	17,805
Sequence 2	6.0	4.0	46.5	43.7	2.9	3.8	3.6	0.2	0.00170	0.00021	16,710
Sequence 3	6.0	6.0	68.1	64.3	3.8	5.5	5.2	0.3	0.00269	0.00034	15,581
Sequence 4	6.0	8.0	89.6	83.3	6.3	7.3	6.8	0.5	0.00391	0.00049	13,865
Sequence 5	6.0	10.0	109.2	100.4	8.8	8.9	8.2	0.7	0.00537	0.00067	12,184
Sequence 6	4.0	2.0	24.6	21.8	2.8	2.0	1.8	0.2	0.00091	0.00011	15,580
Sequence 7	4.0	4.0	45.7	42.8	2.9	3.7	3.5	0.2	0.00189	0.00024	14,786
Sequence 8	4.0	6.0	66.0	63.1	2.9	5.4	5.1	0.2	0.00300	0.00037	13,719
Sequence 9	4.0	8.0	87.4	82.0	5.4	7.1	6.7	0.4	0.00423	0.00053	12,623
Sequence 10	4.0	10.0	107.1	99.2	7.9	8.7	8.1	0.6	0.00560	0.00070	11,548
Sequence 11	2.0	2.0	24.2	21.3	2.9	2.0	1.7	0.2	0.00103	0.00013	13,424
Sequence 12	2.0	4.0	44.9	42.0	2.9	3.7	3.4	0.2	0.00215	0.00027	12,736
Sequence 13	2.0	6.0	64.3	61.3	3.0	5.2	5.0	0.2	0.00339	0.00042	11,793
Sequence 14	2.0	8.0	84.0	79.5	4.5	6.8	6.5	0.4	0.00468	0.00058	11,071
Sequence 15	2.0	10.0	104.0	97.1	6.9	8.5	7.9	0.6	0.00615	0.00077	10,290

TESTED BY _____ DATE _____
 REVIEWED BY _____ DATE _____

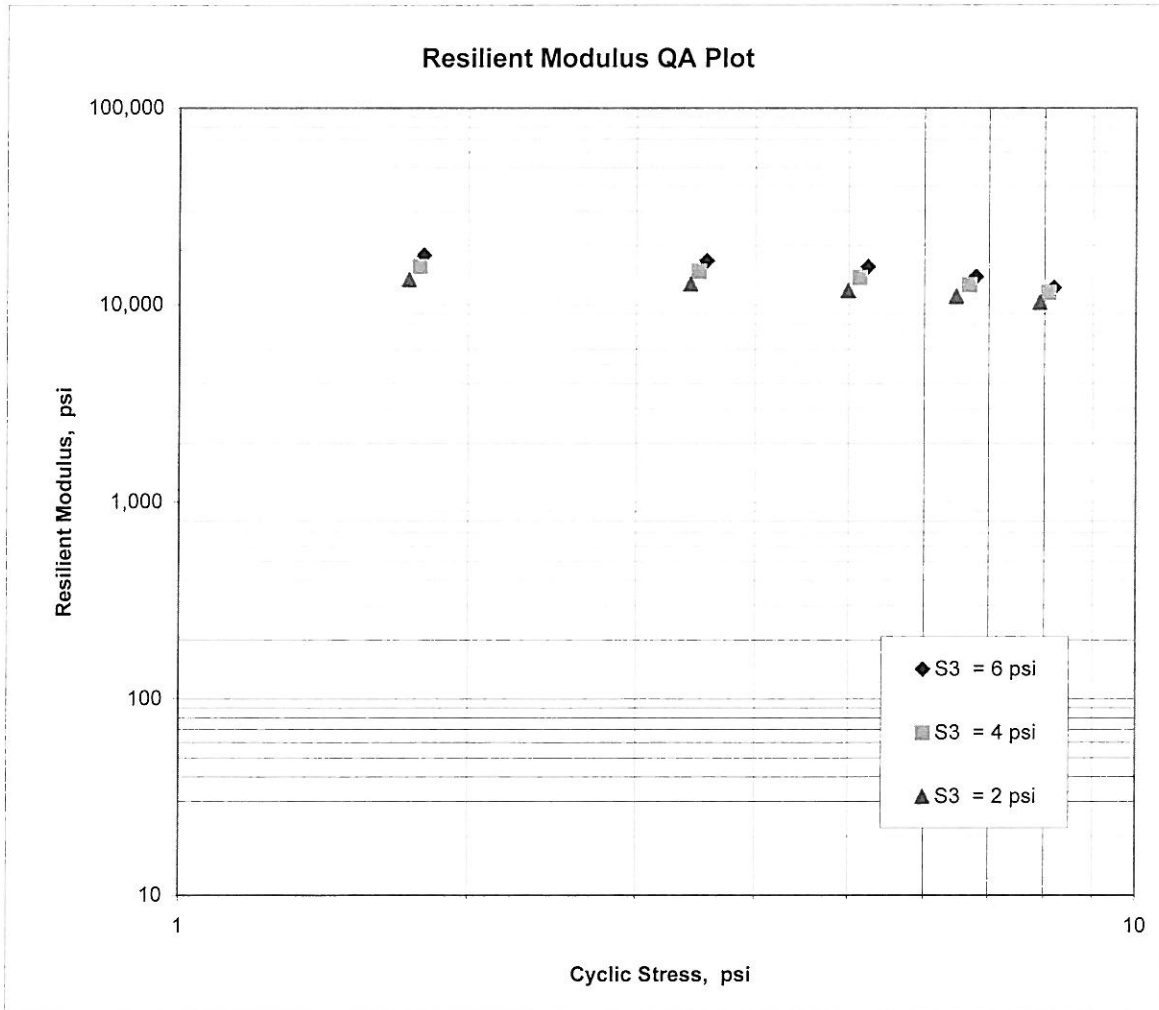
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	012007	Material Code	SSRVPS
Date Sampled:	4/21/2009	Station No.:	203+00
Date Tested:	April 22, 2009	Location:	CL
Name of Project:	RANDALL WOBBE LANE-HWY.264 (SPRINGDALE)(S)		
County:	Code: 72	Name:	WASHINGTON
Sampled By:		Depth:	0-5
Lab No.:	20090825	AASHTO Class:	A-6(16)
Sample ID:	RV213	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

K1 =	13,391
K2 =	-0.19630
K5 =	0.22812
R ² =	0.92



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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 04/30/09 SEQUENCE NO. - 1
 JOB NUMBER - 012007 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 - 76
 SUPPLIER NAME - COUNTIES DISTRICT NO. - XX
 NAME OF PROJECT - RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - MULTIPLE COUNTIES DATE SAMPLED - 03/16/09
 SAMPLED BY - M.CREAMER, T.FRAZIER DATE RECEIVED - 03/30/09
 SAMPLE FROM - TESTHOLE DATE TESTED - 04/09/09
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20090800	-	20090801	-	20090802
SAMPLE ID	-	S187	-	S188	-	S189
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	101+00	-	101+00	-	115+00
LOCATION	-	15'LT *	-	41'LT *	-	24'RT **
DEPTH IN FEET	-	0-5'	-	0-5'	-	0-5'
MAT'L COLOR	-	BROWN	-	BROWN	-	BROWN
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	36 12 10.70	-	36 12 10.80	-	36 12 3.60
LONGITUDE DEG-MIN-SEC	-	94 07 10.90	-	94 07 11.00	-	94 07 .80
% PASSING	2	IN. -	-	-	-	-
	1 1/2	IN. -	-	-	-	-
	3/4	IN. -	-	-	-	-
	3/8	IN. -	-	-	-	-
	NO. 4	- 100	-	100	-	100
	NO. 10	- 97	-	100	-	97
	NO. 40	- 93	-	99	-	92
	NO. 80	- 88	-	93	-	88
	NO. 200	- 79	-	82	-	79
LIQUID LIMIT	-	26	-	35	-	23
PLASTICITY INDEX	-	11	-	20	-	8
AASHTO SOIL	-	A-6(6)	-	A-6(15)	-	A-4(4)
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	23.1	-	22.6	-	16.0
ACHM SURFACE (IN)	-	4.25W	-	-	-	4.5W
ACHM BINDER (IN)	-	5.75W	-	-	-	-
AGG BASE CRS CL7 (IN)	-	3.0	-	-	-	5.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS
 - * = LOCATIONS MEASURED FROM C.L. EXISTING RANDALL WOBBE LANE
 - ** = LOCATION MEASURED FROM C.L. CONSTRUCTION

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	- 04/30/09	SEQUENCE NO.	- 2
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20090803	- 20090804	- 20090805
SAMPLE ID	- S190	- S191	- S192
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 115+00	- 115+00	- 115+00
LOCATION	- 34'RT *	- 41'LT A	- 24'RT A
DEPTH IN FEET	- 0-2.5'Z	- 0-5'	- 0-5'
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 12 3.50	- 36 12 16.70	- 36 12 16.60
LONGITUDE DEG-MIN-SEC	- 94 07 .70	- 94 06 56.00	- 94 06 55.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	- 100	- 100
	NO. 10 - 88	- 93	- 92
	NO. 40 - 73	- 79	- 76
	NO. 80 - 66	- 71	- 67
	NO. 200 - 58	- 59	- 57
LIQUID LIMIT	- 28	- 19	- 22
PLASTICITY INDEX	- 13	- 4	- 8
AASHTO SOIL	- A-6(5)	- A-4(0)	- A-4(2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.1	- 17.6	- 16.8
ACHM SURFACE (IN)	-	- 6.0W	- 4.0W
ACHM BINDER (IN)	-	-	- 6.5W
AGG BASE CRS CL7 (IN)	-	- 5.0	- 5.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
- Z=AUGER REFUSAL
- A=RANDALL WOBBE LANE
- * = LOCATION MEASURED FROM C.L. CONSTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 3
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20090806	- 20090807	- 20090808
SAMPLE ID	- S193	- S194	- S195
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 115+00	- 123+00	- 131+00
LOCATION	- 32'RT A	- CL *	- CL *
DEPTH IN FEET	- 0-5'	- 0-5'	- 0-2'Z
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 12 16.50	- 36 12 11.00	- 36 12 17.30
LONGITUDE DEG-MIN-SEC	- 94 06 55.80	- 94 07 3.40	- 94 07 9.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	- 100	- 100
	NO. 10 - 93	- 99	- 87
	NO. 40 - 83	- 98	- 84
	NO. 80 - 77	- 93	- 77
	NO. 200 - 69	- 84	- 64
LIQUID LIMIT	- 25	- 31	- 23
PLASTICITY INDEX	- 11	- 15	- 8
AASHTO SOIL	- A-6(5)	- A-6(11)	- A-4(2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.2	- 20.6	- 19.4
ACHM SURFACE (IN)	- 4.0W	-	-
AGG BASE CRS CL7 (IN)	- 5.0	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
 - Z=AUGER REFUSAL
 - A=RANDALL WOBBE LANE
 - * = LOCATIONS MEASURED FROM C.L. CONSTRUCTION

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 - 05/11/09 SEQUENCE NO. - 4
 JOB NUMBER - 012007 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 - 76
 SUPPLIER NAME - COUNTIES DISTRICT NO. - XX
 NAME OF PROJECT - RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - MULTIPLE COUNTIES DATE SAMPLED - 03/16/09
 SAMPLED BY - M.CREAMER, T.FRAZIER DATE RECEIVED - 03/30/09
 SAMPLE FROM - TESTHOLE DATE TESTED - 04/09/09
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20090809	20090810	20090811
SAMPLE ID	S196	S197	S198
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	139+00	139+00	147+00
LOCATION	50'RT	CL	20'RT
DEPTH IN FEET	0-5'	0-4.2'Z	0-5'
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	36 12 25.30	36 12 25.30	36 12 33.20
LONGITUDE DEG-MIN-SEC	94 07 12.10	94 07 12.30	94 07 11.90
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	100	100	100
NO. 10	90	90	94
NO. 40	77	79	85
NO. 80	70	73	77
NO. 200	57	64	64
LIQUID LIMIT	27	34	32
PLASTICITY INDEX	14	19	15
AASHTO SOIL	A-6(5)	A-6(9)	A-6(7)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	17.0	20.1	17.4
ACHM SURFACE (IN)	4.5W	-	4.5W
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS
 - Z=AUGER REFUSAL
 - LOCATIONS MEASURED FROM C.L. CONTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 5
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT - RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20090812	- 20090813	- 20090814
SAMPLE ID	- S199	- S200	- S201
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 155+00	- 155+00	- 163+00
LOCATION	- 19'RT	- CL	- 18'RT
DEPTH IN FEET	- 0-5'	- 0-5'	- 0-5'
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 12 41.00	- 36 12 41.00	- 36 12 48.90
LONGITUDE DEG-MIN-SEC	- 94 07 11.70	- 94 07 11.80	- 94 07 11.50
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	- 100	- 100	- 100
NO. 10	- 99	- 96	- 86
NO. 40	- 96	- 92	- 74
NO. 80	- 89	- 84	- 64
NO. 200	- 76	- 68	- 51
LIQUID LIMIT	- 29	- 31	- 24
PLASTICITY INDEX	- 16	- 19	- 11
AASHTO SOIL	- A-6(10)	- A-6(10)	- A-6(2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.9	- 17.8	- 11.8
ACHM SURFACE (IN)	- 4.25W	-	- 4.75W
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
- LOCATIONS MEASURED FROM C.L. CONTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 6
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20090815	- 20090816	- 20090817
SAMPLE ID	- S202	- S203	- S204
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 163+00	- 171+00	- 171+00
LOCATION	- CL	- 7'RT	- CL
DEPTH IN FEET	- 0-5'	- 0-5'	- 0-5'
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 12 49.00	- 36 12 56.70	- 36 12 56.80
LONGITUDE DEG-MIN-SEC	- 94 07 11.50	- 94 07 11.50	- 94 07 11.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	- 100	- 100
	NO. 10 - 85	- 97	- 91
	NO. 40 - 72	- 92	- 83
	NO. 80 - 64	- 86	- 77
	NO. 200 - 51	- 77	- 67
LIQUID LIMIT	- 26	- 24	- 25
PLASTICITY INDEX	- 12	- 10	- 12
AASHTO SOIL	- A-6(3)	- A-4(5)	- A-6(5)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.3	- 21.8	- 17.4
ACHM SURFACE (IN)	-	- 4.0W	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
- LOCATIONS MEASURED FROM C.L. CONSTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 7
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20090818	- 20090819	- 20090820
SAMPLE ID	- S205	- S206	- S207
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 179+00	- 187+00	- 195+00
LOCATION	- CL	- CL	- CL
DEPTH IN FEET	- 0-4.0'Z	- 0-5'	- 0-5'
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 13 3.80	- 36 13 9.60	- 36 13 16.40
LONGITUDE DEG-MIN-SEC	- 94 07 7.70	- 94 07 .40	- 94 06 56.30
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	-	-	-
NO. 4	- 100	- 100	- 100
NO. 10	- 100	- 99	- 94
NO. 40	- 98	- 98	- 87
NO. 80	- 93	- 94	- 82
NO. 200	- 86	- 89	- 74
LIQUID LIMIT	- 23	- 24	- 26
PLASTICITY INDEX	- 7	- 6	- 11
AASHTO SOIL	- A-4 (4)	- A-4 (4)	- A-6 (6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 21.2	- 21.8	- 14.9
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - Z = AUGER REFUSAL
 - LOCATIONS MEASURED FROM C.L. CONSTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 8
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 03/16/09
LOCATION	- MULTIPLE COUNTIES	DATE RECEIVED	- 03/30/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE TESTED	- 04/09/09
SAMPLE FROM	- TESTHOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20090821	- 20090822	- 20090823
SAMPLE ID	- S208	- S209	- S201
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 203+00	- 211+00	- 219+00
LOCATION	- CL	- CL	- 4'LT
DEPTH IN FEET	- 0-5'	- 0-5'	- 0-5'
MAT'L COLOR	- BROWN	- BR/RD	- RED
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 13 23.10	- 36 13 38.80	- 36 13 54.50
LONGITUDE DEG-MIN-SEC	- 94 06 52.10	- 94 06 51.70	- 94 06 51.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	- 100	- 100
	NO. 10 - 99	- 93	- 89
	NO. 40 - 97	- 86	- 72
	NO. 80 - 92	- 71	- 66
	NO. 200 - 84	- 55	- 57
LIQUID LIMIT	- 36	- 28	- 36
PLASTICITY INDEX	- 24	- 9	- 22
AASHTO SOIL	- A-6(18)	- A-4(2)	- A-6(10)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.0	- 13.8	- 17.2
ACHM SURFACE (IN)	-	-	- 3.0
AGG.BASE. CRS.CL7 (IN)	-	-	- 5.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM C.L. CONSTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 9
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20090824	-	-
SAMPLE ID	- S211	-	-
TEST STATUS	- INFORMATION ONLY	-	-
STATION	- 219+00	-	-
LOCATION	- 17'LT	-	-
DEPTH IN FEET	- 0-5'	-	-
MAT'L COLOR	- RED	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 13 54.70	-	-
LONGITUDE DEG-MIN-SEC	- 94 06 51.20	-	-
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	-
	3/8 IN.	-	-
	NO. 4	- 100	-
	NO. 10	- 92	-
	NO. 40	- 80	-
	NO. 80	- 73	-
	NO. 200	- 63	-
LIQUID LIMIT	- 34	-	-
PLASTICITY INDEX	- 21	-	-
AASHTO SOIL	- A-6(10)	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.7	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATION MEASURED FROM C.L. CONSTRUCTION
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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	- 04/30/09	SEQUENCE NO.	- 1
JOB NUMBER	- 012007	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- RANDALL WOBBE LANE-HWY. 264 (SPRINGDALE) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 03/16/09
SAMPLED BY	- M.CREAMER, T.FRAZIER	DATE RECEIVED	- 03/30/09
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 04/09/09
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS		

LAB NUMBER	- 20090825	- 20090826	-
SAMPLE ID	- RV212	- RV213	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- 123+00	- 203+00	-
LOCATION	- CL	- CL	-
DEPTH IN FEET	- 0-5'	- 0-5'	-
MAT'L COLOR	- BROWN	- BROWN	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 36 12 11.00	- 36 13 23.10	-
LONGITUDE DEG-MIN-SEC	- 94 07 3.40	- 94 06 52.10	-
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 - 100	- 100	-
	NO. 10 - 99	- 97	-
	NO. 40 - 99	- 95	-
	NO. 80 - 95	- 88	-
	NO. 200 - 85	- 80	-
LIQUID LIMIT	- 27	- 35	-
PLASTICITY INDEX	- 11	- 22	-
AASHTO SOIL	- A-6(7)	- A-6(16)	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - LOCATIONS MEASURED FROM C.L. CONSTRUCTION
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AASHTO TESTS : T24 T88 T89 T90 T265
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