ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

IN		SALINE	COUNTY
STATE HIGHWAY	9	SECTION	5
HWY. 5 –	PERRY CO. LI	NE (SAFETY IMPVTS.) (SI	EL. SECS.) (S)
FEDERAL AID PROJEC	CT NO	HSIP-0062(46)	
01/(12 00B NO		001001	
STATE JOB NO.		061561	

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 DEPARTMENT OF TRANSPORTATION

ARDOT.gov | IDriveArkansas.com | Scott E. Bennett, P.E., Director

MATERIALS DIVISION

11301 West Baseline Road | P.O. Box 2261 | Little Rock, AR 72203-2261 | Phone: 501.569.2185 | Fax: 501.569.2368 | February 1, 2018

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 061561

Hwy. 5 - Perry Co. Line (Safety Impvts.)(Sel. Secs.)(S)

Route 9 Section 5 Saline County

Transmitted herewith is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of making safety improvements to approximately 17.2 miles of Highway 9. Samples were taken in the existing travel lanes and ditch line. There were no paved shoulders within the project limits.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of moderately plastic sandy clay with varying amounts of shale. The subgrade soils are expected to provide a stable working platform with normal drying and compactive effort if the weather is favorable during construction. Rock was encountered at several locations within the project limits; table 1 below displays the location and depth. If embankment is placed within the existing ditch line all soft and unstable organic material should be undercut prior to embankment construction, anticipated to be no more than two feet.

Table 1 Location of Rock

Log mile	Location from Centerline	Depth (ft.)
.05	16' Rt	3.0
.30	16' Lt	3.5
.80	5' Lt	2.5
1.3	16' Lt	2.0
1.75	16' Lt	2.5
4.2	5', 16' Rt	3.5, 3.0
4.45	5', 16' Lt	3.0, 3.0
4.8	5' Rt	3.0
5.55	16' Lt	2.0
6.3	5' Rt	3.5
6.55	5' Lt	4.5
6.8	16' Rt	4.0
9.05	16' Lt	3.0
11.3	5' Rt	3.5
12.25	5' Rt	4.0
12.9	5', 16' Rt	2.5, 1.5
13.15	5', 16' Rt	2.0, 3.0
13.9	5', 16' Rt	4.5, 4.0
15.15	5', 16' Lt	3.0, 3.0
15.9	16' Rt	3.5
16.15	5', 16' Lt	3.0, 1.0
16.65	5', 16' Lt	3.0, 2.0
16.9	5', 16' Rt	4.0, 2.5
17.15	5', 16' Lt	3.0, 3.0

Additional earthwork recommendations will be made upon request after plans are further developed and cross sections become available.

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 Bryant.
- 2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	4.9	95.1
Binder Course	4.0	96.0
Base Course	3.6	96.4

Michael C. Benson Materials Engineer

MCB:pt:bjj Attachment

cc: State Cons

State Constr. Eng. – Master File Copy

District 6 Engineer

System Information and Research 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 - 01/31/2018		SEQUENCE	NO.	200	1
JOB NUMBER - 061561		MATERIAL	CODE	-	SSRV
		SPEC. YEA	AR	\rightarrow	2014
		SUPPLIER	ID.	-	1
		COUNTY/ST	CATE	7	62
		DISTRICT	NO.	2	06
JOB NAME - HWY. 5 - PERRY CO). LINE (SAFETY IMPVTS	.)(S)			
*******	* * * * * * * * * * * * * * * * * * * *	*****	****	**	*****
* STATION L	IMITS R-VA	LUE AT 240	psi		*
*******	*******	*****	****	**:	*****
BEGIN JOB -	END JOB 13				
RESILIENT M	ODULUS				
STATION - 1	.5 94	62			
STATION - 2	.75 66	71			
STATION - 5	.8 98	97			
STATION - 7	.05 72	72			
STATION - 9	.8 73	02			
STATION - 1	1.05 64	21			

REMARKS -

-

AASHTO TESTS : T190

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

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE = 02/01/2018 SEQUENCE NO. = 2

JOB NUMBER - 061561 MATERIAL CODE - SSRV

SPEC. YEAR - 2014

SUPPLIER ID. = 1

COUNTY/STATE = 62

DISTRICT NO. - 06

JOB NAME - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.) (S)

* STATION LIMITS R-VALUE AT 240 psi

RESILIENT MODULUS

STATION - 12.25 14734 STATION - 14.4 8942

STATION - 15.65 10956

REMARKS -

*

AASHTO TESTS : T190

Job No.	061561	Material Code	SSRVPS
Date Sampled:	12/13/17	Station No.:	1.5
Date Tested:	January 25, 2018	Location:	16'RT
Name of Project:	HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEI	L. SECS.)(S)	
County:	Code: 62 Name: SALINE		
Sampled By:	FRAZIER/BATES	Depth:	0-5
Lab No.:	20173849	AASHTO Class:	A-4 (2)
Sample ID:	RV930	Material Type (1 or 2):	
LATITUDE:		LONGITUDE:	
1. Testing Inform			
	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 Info	ormation:		
	Specimen Diameter (in):		
	Top		3.94
	Middle		3.94
	Bottom		3.94
	Average		3.94
	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):		12.12
	Initial Volume, AoLo (cu. in):		97.19
3. Soil Specimen	_		
	Weight of Wet Soil Used (g):		3140.30
4. Soil Properties	s:		
	Optimum Moisture Content (%):		14.4
	Maximum Dry Density (pcf):		112.1
	95% of MDD (pcf):		106.5
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3140.30
	Compaction Moisture content (%):		14.3
	Compaction Wet Density (pcf):		123.12
	Compaction Dry Density (pcf):		107.71
	Moisture Content After Mr Test (%):		14.1
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mode	ulus, Mr:	10541(S	c)^-0.14136(S3)^0.26711
8. Comments			
o. Comments			
9. Tested By:	GW Date:	January 25, 2018	
	Date.	Juliani 20, 2010	

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

SSRVPS

16'RT

1.5

Material Code Station No.: Location: January 25, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S) Name of Project:

Depth: SALINE Name: FRAZIER/BATES Code: 62 Sampled By: County:

20173849 RV930 LATITUDE: Sample ID: Lab No.:

Material Type (1 or 2): 2 LONGITUDE:

A-4(2)

AASHTO Class:

0-5

							_			_	_		_			_					
Resilient	Modulus				Mr	psi	15,472	14,793	13,877	12,783	12,201	13,701	12,670	11,917	11,394	10,949	11,578	10,661	10,113	9,647	9,462
Resilient	Strain				ž	in/in	0.00012	0.00025	0.00039	0.00057	0.00074	0.00013	0.00029	0.00045	0.00063	0.00082	0.00016	0.00034	0.00053	0.00073	0.00092
Average	Recov Def.	LVDT 1	and 2		Havg	ü	96000.0	0.00199	0.00317	0.00455	0.00590	0.00108	0.00230	0.00365	0.00505	0.00654	0.00126	0.00270	0.00423	0.00587	0.00742
Actual	Applied	Contact	Stress		Scontact	psi	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	9.0	0.2	0.2	0.2	0.4	9.0
Actual	Applied	Cyclic	Stress		Scyclic	psi	1.8	3.7	5.5	7.2	9.0	1.8	3.6	5.4	7.2	8.9	1.8	3.6	5.3	7.1	8.8
Actual	Applied	Мах.	Axial	Stress	S _{max}	psi	2.1	3.9	5.8	7.7	9.7	2.1	3.9	5.7	9.7	9.6	2.1	3.8	5.6	7.4	9.3
Actual	Applied	Contact	Load		Pcontact	sql	2.8	2.8	3.6	6.1	8.5	2.8	2.8	2.9	5.2	7.6	2.8	2.9	2.8	4.3	6.7
Actual	Applied	Cyclic Load			P _{cyclic}	sql	22.4	44.6	66.4	87.8	108.8	22.3	44.1	65.6	86.9	108.3	22.1	43.5	64.6	85.6	106.0
Actual	Applied	Max. Axial	Load		P _{max}	sql	25.2	47.3	70.0	93.9	117.3	25.1	46.9	68.5	92.1	115.9	25.0	46.4	67.5	89.8	112.8
Nominal	Maximum	Axial	Stress		Scyclic	psi	2.0	4.0	6.0	8.0	10.0	2.0	4.0	0.9	8.0	10.0	2.0	4.0	0.9	8.0	10.0
Chamber	Confining	Pressure			လိ	psi	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
		PARAMETER			DESIGNATION	LINI	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sednence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Sequence 14	Sequence 15

January 25, 2018

DATE DATE

REVIEWED BY

TESTED BY

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

Job No.

061561

Material Code SSRVPS

Date Sampled:

12/13/17

Station No.: 1.5

Date Tested:

January 25, 2018

Location: 16'RT

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

Name: SALINE

County:

Code: 62

Sampled By:

FRAZIER/BATES

Depth: 0-5

Lab No.:

20173849

AASHTO Class: A-4 (2)

Sample ID:

RV930

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

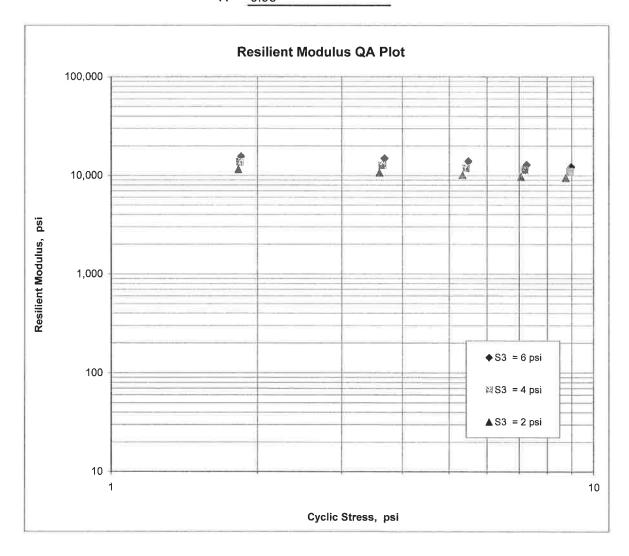
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 10,541

K2 = -0.14136

K5 = 0.26711

 $R^2 = 0.98$



Job No.	061561	Material Code	SSRVPS
Date Sampled:	12/13/17	Station No.:	2.75
Date Tested:	January 25, 2018	Location:	16'LT
Name of Project:	HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL	SECS.)(S)	
County:	Code: 62 Name: SALINE		
Sampled By:	FRAZIER/BATES	Depth:	0-5
Lab No.:	20173850	AASHTO Class:	A-6 (1)
Sample ID:	RV931	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	
1. Testing Inform			
	Preconditioning - Permanent Strain > 5% (Y=Yes	•	N
	Testing - Permanent Strain > 5% (Y=Yes or N=No)		N
	Number of Load Sequences Completed (0-15)		15
2. Specimen Info	ormation:		
	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.96
	Bottom		3.96
	Average		3.96
	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):		12.24
	Initial Volume, AoLo (cu. in):		98.18
3. Soil Specimer	_		
	Weight of Wet Soil Used (g):		3108.50
4. Soil Properties			
	Optimum Moisture Content (%):		15.8
	Maximum Dry Density (pcf):		109.2
	95% of MDD (pcf):		103.7
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3108.50
	Compaction Moisture content (%):		16.0
	Compaction Wet Density (pcf):		120.64
	Compaction Dry Density (pcf):		104.00
	Moisture Content After Mr Test (%):		15.5
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	10450(S	c)^-0.29701(S3)^0.26116
	·	-3.30(3	,(35) 0.20110
8. Comments			
0 T 1 T	·		
9. Tested By:	GW Date:	January 25, 2018	

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

Material Code Station No.: Location: January 25, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

SSRVPS 2.75 16'LT

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

SALINE Name: FRAZIER/BATES Code: 62 20173850 Sampled By: Lab No.: County:

Sample ID: RV931 LATITUDE:

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

	Chamber	Nominal	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Average Recov Def.	Resilient	Resilient
PARAMETER	Pressure	Axial	Max. Axial	Max. Axial Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	Scyclic	Scontact	Havg	3	M
TIND	isd	psi	sql	sql	sql	psi	psi	psi	Ë	in/in	psi
Sequence 1	6.0	2.0	25.3	22.7	2.6	2.1	1.9	0.2	0.00110	0.00014	13,527
Sequence 2	6.0	4.0	47.7	45.1	2.7	3.9	3.7	0.2	0.00250	0.00031	11,828
Sequence 3	6.0	6.0	70.3	6.99	3.5	5.7	5.5	0.3	0.00418	0.00052	10,475
Sequence 4	0.9	8.0	93.6	87.6	0.9	7.6	7.2	0.5	0.00619	0.00077	9,273
Sequence 5	6.0	10.0	117.0	108.7	8.4	9.6	8.9	0.7	0.00827	0.00103	8,608
Sequence 6	4.0	2.0	25.3	22.6	2.7	2.1	1.8	0.2	0.00120	0.00015	12,286
Sequence 7	4.0	4.0	47.2	44.4	2.8	3.9	3.6	0.2	0.00279	0.00035	10,422
Sequence 8	4.0	0.9	68.4	9.59	2.8	5.6	5.4	0.2	0.00476	0.00059	9,031
Sequence 9	4.0	8.0	91.8	9.98	5.2	7.5	7.1	0.4	0.00699	0.00087	8,118
Sequence 10	4.0	10.0	115.8	108.2	9.7	9.5	8.8	9.0	0.00919	0.00115	7,713
Sequence 11	2.0	2.0	25.2	22.4	2.8	2.1	1.8	0.2	0.00142	0.00018	10,377
Sequence 12	2.0	4.0	46.9	44.1	2.8	3.8	3.6	0.2	0.00328	0.00041	8,799
Sequence 13	2.0	0.9	67.4	64.6	2.8	5.5	5.3	0.2	0.00553	0.00069	7,649
Sequence 14	2.0	8.0	89.4	85.1	4.3	7.3	6.9	0.4	0.00799	0.00100	926'9
Sequence 15	2.0	10.0	113.0	106.2	6.8	9.2	8.7	9.0	0.01043	0.00130	6,671

January 25, 2018	
DATE	DATE
GW	
TESTED BY	REVIEWED BY

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

Job No. 061561 **Material Code SSRVPS**

Date Sampled: 12/13/17 Station No.: 2.75 Date Tested: Location: 16'LT

January 25, 2018

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By: FRAZIER/BATES **Depth:** 0-5 Lab No.: 20173850

AASHTO Class: A-6(1) Sample ID: RV931 Material Type (1 or 2): 2

LATITUDE: LONGITUDE:

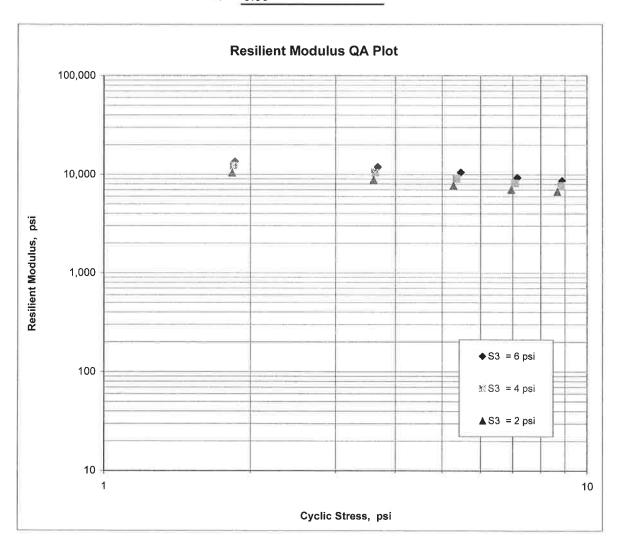
 $M_R = K1 (S_C)^{K2} (S_3)^{K5}$

K1 = 10,450

K2 = -0.29701

K5 = 0.26116

 $R^2 = 0.99$



Job No. Date Sampled:	061561 12/13/17	Material Code Station No.:	SSRVPS 5.8
Date Tested:	January 25, 2018	Location:	16'RT
Name of Project:	HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS	S.)(SEL. SECS.)(S)	
County:	Code: 62 Name: SALINE		
Sampled By:	FRAZIER/BATES	Depth:	0-5
Lab No.:	20173851	AASHTO Class:	A-6 (7)
Sample ID:	RV932	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	
1. Testing Inform			
	Preconditioning - Permanent Strain > 5% (Y	•	N
	Testing - Permanent Strain > 5% (Y=Yes or		N
	Number of Load Sequences Completed (0-1	5)	15
2. Specimen Info	rmation:		
	Specimen Diameter (in):		
	Тор		3.95
	Middle		3.94
	Bottom		3.94
	Average		3.94
	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):		12.14
	Initial Volume, AoLo (cu. in):		97.35
3. Soil Specimen	Weight:		
	Weight of Wet Soil Used (g):		3191.30
4. Soil Properties	»:		
	Optimum Moisture Content (%):		15.4
	Maximum Dry Density (pcf):		111.7
	95% of MDD (pcf):		106.1
	In-Situ Moisture Content (%):		N/A
5. Specimen Proj	perties:		
	Wet Weight (g):		3191.30
	Compaction Moisture content (%):		15.3
	Compaction Wet Density (pcf):		124.90
	Compaction Dry Density (pcf):		108.33
	Moisture Content After Mr Test (%):		15.2
6. Quick Shear To	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Modu	ılus, Mr:	11577(Se	c)^-0.15108(S3)^0.24449
8. Comments			
9. Tested By:	GW	Date: January 25, 2018	

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

SSRVPS 16'RT 5.8 Material Code Station No.: Location: January 25, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

Depth: SALINE Name: FRAZIER/BATES Code: 62 Sampled By: County:

Lab No.: 20173851
Sample ID: RV932
LATITUDE:

Material Type (1 or 2): 2 LONGITUDE:

0-5

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Max. Axial Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	Scyclic	Р _{шах}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	చ్	M
UNIT	psi	psi	lbs	sql	sql	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.3	22.8	2.5	2.1	1.9	0.2	0.00093	0.00012	16,270
Sequence 2	0.9	4.0	47.4	44.8	5.6	3.9	3.7	0.2	0.00192	0.00024	15,396
Sequence 3	0.9	0.9	70.2	8.99	3.4	5.8	5.5	0.3	0.00308	0.00038	14,334
Sequence 4	0.9	8.0	94.1	88.3	5.8	7.7	7.3	0.5	0.00445	0.00055	13,121
Sequence 5	0.9	10.0	117.5	109.1	8.3	9.7	9.0	0.7	0.00584	0.00073	12,353
Sequence 6	4.0	2.0	25.2	22.5	2.7	2.1	1.9	0.2	0.00103	0.00013	14,407
Sequence 7	4.0	4.0	47.1	44.5	5.6	3.9	3.7	0.2	0.00216	0.00027	13,590
Sequence 8	4.0	0.9	68.9	66.2	2.7	5.7	5.5	0.2	0.00344	0.00043	12,697
Sequence 9	4.0	8.0	97.6	97.6	5.0	7.6	7.2	0.4	0.00482	0.00060	12,005
Sequence 10	4.0	10.0	115.8	108.3	7.5	9.5	8.9	9.0	0.00630	0.00079	11,348
Sequence 11	2.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00121	0.00015	12,162
Sequence 12	2.0	4.0	46.8	44.2	2.7	3.9	3.6	0.2	0.00256	0.00032	11,398
Sequence 13	2.0	0.9	0.89	65.3	2.7	5.6	5.4	0.2	0.00400	0.00050	10,778
Sequence 14	2.0	8.0	90.7	86.5	4.3	7.5	7.1	0.4	0.00553	0.00069	10,341
Sequence 15	2.0	10.0	113.8	107.1	6.7	9.4	8.8	9.0	0.00715	0.00089	9,897

January 25, 2018

DATE DATE

REVIEWED BY

TESTED BY

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

Job No. 061561 **Material Code SSRVPS**

Date Sampled: 12/13/17 Station No.: 5.8

Date Tested: Location: 16'RT January 25, 2018

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By: FRAZIER/BATES **Depth:** 0-5

AASHTO Class: A-6 (7) Lab No.: 20173851

Sample ID: **RV932** Material Type (1 or 2): 2

LATITUDE: LONGITUDE:

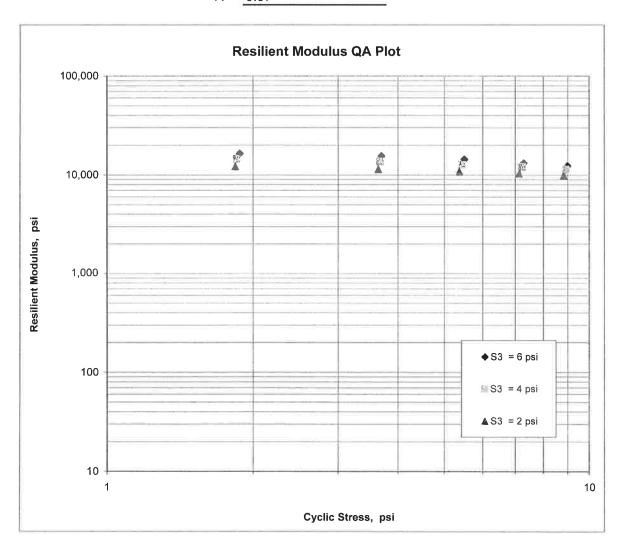
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 11,577

K2 = -0.15108

K5 = 0.24449

 $R^2 = 0.97$



Job No. Date Sampled:	061561 12/13/17	Material Code Station No.:	SSRVPS 7.05
Date Tested:	January 25, 2018	Location:	16'LT
Name of Project:	HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SE	L. SECS.)(S)	
County: Sampled By:	Code: 62 Name: SALINE FRAZIER/BATES	Depth:	0-5
Lab No.:	20173852	AASHTO Class:	A-4 (0)
Sample ID:	RV933	Material Type (1 or 2):	1 7
LATITUDE:		LONGITUDE:	
1. Testing Inform			***************************************
	Preconditioning - Permanent Strain > 5% (Y=Yes	· ·	N
	Testing - Permanent Strain > 5% (Y=Yes or N=No))	N
	Number of Load Sequences Completed (0-15)		15
2. Specimen Info			
	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.95
	Bottom		3.94
	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):		12.18
	Initial Volume, AoLo (cu. in):		97.68
3. Soil Specimen			
	Weight of Wet Soil Used (g):		3243.00
4. Soil Properties	s:		
	Optimum Moisture Content (%):		15.1
	Maximum Dry Density (pcf):		112
	95% of MDD (pcf):		106.4
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3243.00
	Compaction Moisture content (%):		15.0
	Compaction Wet Density (pcf):		126.50
	Compaction Dry Density (pcf):		110.00
	Moisture Content After Mr Test (%):		14.8
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Modu	ulus, Mr:	10069(S	c)^-0.28904(S3)^0.38724
8. Comments	·····		
9. Tested By:	<u>GW</u> Date	: January 25, 2018	

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

SSRVPS

16'LT

0-5

7.05

Material Code Station No.: Location: January 25, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S) Name of Project:

Depth: SALINE Name: FRAZIER/BATES Code: 62 20173852 RV933 Sampled By: Sample ID: Lab No.: County:

campion of			
Lab No.:	20173852	AASHTO Class: A-4 (0)	4 (0)
Sample ID:	RV933	Material Type (1 or 2): 2	
LATITUDE:		LONGITUDE:	

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial	Actual Applied Max Axial	Actual Applied Cyclic I oad	Actual Applied Contact	Actual Applied Max	Actual Applied Cyclic	Actual Applied Contact	Average Recov Def.	Resilient Strain	Resilient Modulus
		Stress			Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	Scontact	H _{avg}	చ్	M
UNIT	psi	psi	sql	sql	sql	psi	psi	psi	i	in/in	psi
Sequence 1	6.0	2.0	25.3	22.6	2.7	2.1	1.9	0.2	0.00091	0.00011	16,291
Sequence 2	0.9	4.0	47.7	45.0	2.7	3.9	3.7	0.2	0.00205	0.00026	14,451
Sequence 3	0.9	6.0	70.4	0.79	3.4	5.8	5.5	0.3	0.00344	0.00043	12,846
Sequence 4	0.9	8.0	94.3	88.4	5.9	7.7	7.3	0.5	0.00509	0.00063	11,430
Sequence 5	0.9	10.0	118.1	109.7	8.4	9.7	9.0	0.7	0.00681	0.00085	10,611
Sequence 6	4.0	2.0	25.3	22.6	2.7	2.1	1.9	0.2	0.00104	0.00013	14,295
Sequence 7	4.0	4.0	47.3	44.5	2.8	3.9	3.7	0.2	0.00248	0.00031	11,838
Sequence 8	4.0	0.9	68.7	0.99	2.7	5.6	5.4	0.2	0.00424	0.00053	10,253
Sequence 9	4.0	8.0	92.4	87.3	5.1	2.6	7.2	0.4	0.00610	0.00076	9,426
Sequence 10	4.0	10.0	116.2	108.7	7.4	9.5	8.9	9.0	0.00793	0.00099	9,030
Sequence 11	2.0	2.0	25.0	22.3	2.6	2.1	1.8	0.2	0.00130	0.00016	11,290
Sequence 12	2.0	4.0	46.4	43.7	2.7	3.8	3.6	0.2	0.00314	0.00039	9,170
Sequence 13	2.0	0.9	9.99	64.0	2.6	5.5	5.3	0.2	0.00531	0.00066	7,929
Sequence 14	2.0	8.0	89.3	85.2	4.1	7.3	7.0	0.3	0.00749	0.00093	7,490
Sequence 15	2.0	10.0	112.9	106.3	6.6	9.3	8.7	0.5	0.00963	0.00120	7,272

January 25, 2018	
DATE	DATE
GW	
TESTED BY	REVIEWED BY

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

Job No. 061561 **Material Code SSRVPS**

Date Sampled: 12/13/17 Station No.: 7.05

Date Tested: January 25, 2018 Location: 16'LT

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By: FRAZIER/BATES **Depth:** 0-5

20173852 AASHTO Class: A-4 (0) Lab No.: **RV933**

Sample ID: Material Type (1 or 2): 2 LONGITUDE: LATITUDE:

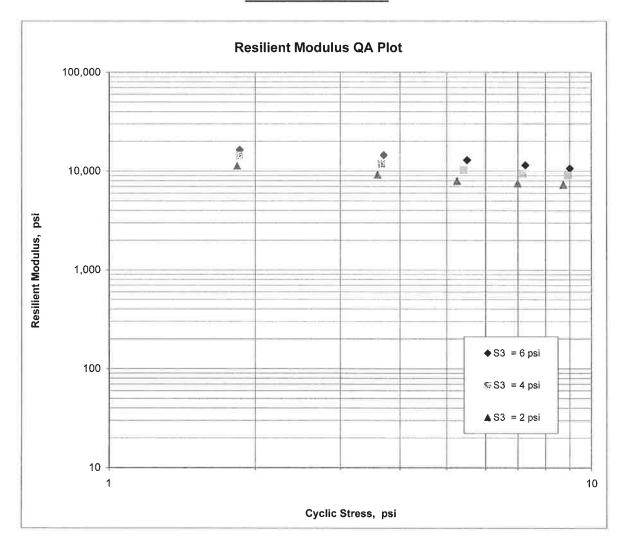
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 10,069

K2 = -0.28904

K5 = 0.38724

 $R^2 = 0.99$



Job No. Date Sampled: Date Tested: Name of Project:	061561 12/13/17 January 26, 2018 HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEI	Material Code Station No.: Location:SECS.)(S)	SSRVPS 9.8 16'RT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 62 Name: SALINE FRAZIER/BATES 20173853 RV934	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-2-4 (0) 2
1. Testing Inform	nation:		
	Preconditioning - Permanent Strain > 5% (Y=Yes Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15)		N N 15
2. Specimen Info	ormation:		
3. Soil Specimer	Specimen Diameter (in): Top Middle Bottom Average Membrane Thickness (in): Height of Specimen, Cap and Base (in): Height of Cap and Base (in): Initial Length, Lo (in): Initial Area, Ao (sq. in): Initial Volume, AoLo (cu. in): Weight: Weight of Wet Soil Used (g):		3.95 3.94 3.94 3.94 0.01 8.02 0.00 8.02 12.14 97.35
4. Soil Properties			
	Optimum Moisture Content (%); Maximum Dry Density (pcf): 95% of MDD (pcf): In-Situ Moisture Content (%):		15.7 111.8 106.2 N/A
5. Specimen Pro	perties:		
	Wet Weight (g): Compaction Moisture content (%): Compaction Wet Density (pcf): Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		3233.40 16.2 126.55 108.91 15.7
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	10056(S	c)^-0.27403(S3)^0.35178
8. Comments	<u> </u>		
9. Tested By:	GW Date:	January 26, 2018	

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

Material Code Station No.: Location: January 26, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

SSRVPS 9.8

16'RT

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL.SECS.)(S)

County: Code: 62 Name: SALINE
Sampled By: FRAZIER/BATES Depth:

County:Code: 62Name:SALINESampled By:FRAZIER/BATESLab No.:20173853Sample ID:RV934

LATITUDE:

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

0-5

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied Cigin 1 224	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PAKAMETEK	Fressure	Axial	Max. Axial	Cyclic Load	Comaci	Max.	Cyclic	Comaci	ראטו		
		Siress	7090		7090	Stress	Siless	Siless	ana z		
DESIGNATION	လိ	Scyclic	Pax	Poyclic	Pcontact	Smax	S _{cyclic}	Scontact	Havg	ယ်	Ψ̈́
TIND	psi	psi	sql	lbs	sqj	psi	psi	psi	,E	in/in	psi
Sequence 1	6.0	2.0	25.2	22.5	2.7	2.1	1.9	0.2	0.00097	0.00012	15,415
Sequence 2	6.0	4.0	47.5	44.7	2.8	3.9	3.7	0.2	0.00212	0.00026	13,917
Sequence 3	6.0	6.0	8.69	66.3	3.6	5.8	5.5	0.3	0.00354	0.00044	12,382
Sequence 4	0.9	8.0	93.0	87.0	0.9	7.7	7.2	0.5	0.00530	0.00066	10,844
Sequence 5	6.0	10.0	116.4	107.9	8.5	9.6	8.9	0.7	0.00697	0.00087	10,227
Sequence 6	4.0	2.0	25.1	22.4	2.7	2.1	1.8	0.2	0.00108	0.00013	13,722
Sequence 7	4.0	4.0	46.9	44.1	2.7	3.9	3.6	0.2	0.00249	0.00031	11,719
Sequence 8	4.0	0.9	68.0	65.2	2.8	5.6	5.4	0.2	0.00420	0.00052	10,256
Sednence 9	4.0	8.0	91.1	86.0	5.1	7.5	7.1	0.4	0.00611	0.00076	9,309
Sequence 10	4.0	10.0	114.4	106.9	7.5	9.4	8.8	9.0	0.00802	0.00100	8,808
Sequence 11	2.0	2.0	24.8	22.1	2.7	2.0	1.8	0.2	0.00136	0.00017	10,784
Sequence 12	2.0	4.0	46.2	43.5	2.7	3.8	3.6	0.2	0.00311	0.00039	9,228
Sequence 13	2.0	0.9	66.1	63.4	2.7	5.4	5.2	0.2	0.00518	0.00065	8,087
Sequence 14	2.0	8.0	87.9	83.7	4.2	7.2	6.9	0.3	0.00738	0.00092	7,491
Sequence 15	2.0	10.0	111.0	104.4	9.9	9.1	9.6	0.5	0.00945	0.00118	7,302

January 26, 2018	
DATE	_ DATE
GW	
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED / THINWALL TUBE SAMPLES

Job No.061561Material Code SSRVPSDate Sampled:12/13/17Station No.: 9.8

Date Tested: January 26, 2018 **Location:** 16'RT **Name of Project:** HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL.SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By:FRAZIER/BATESDepth: 0-5Lab No.:20173853AASHTO Class: A-2-4 (0)Sample ID:RV934Material Type (1 or 2): 2LATITUDE:LONGITUDE:

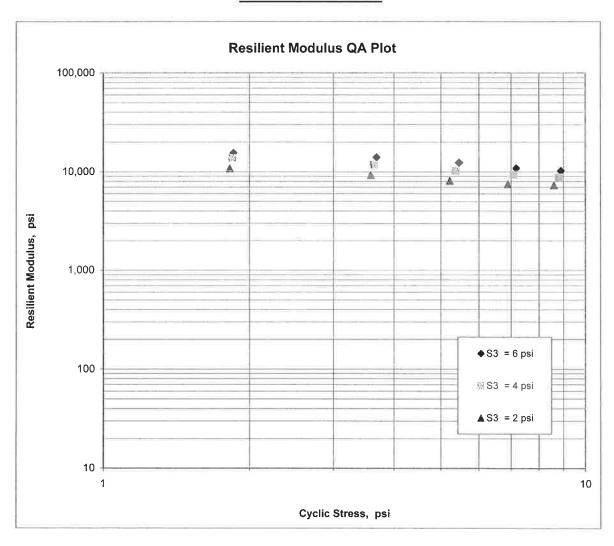
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 10,056

K2 = -0.27403

K5 = 0.35178

 $R^2 = 0.99$



Job No. Date Sampled: Date Tested: Name of Project: County:	061561 12/13/17 January 26, 2018 HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEI Code: 62 Name: SALINE	Material Code Station No.: Location: L.SECS.)(S)	SSRVPS 11.05 16'LT
Sampled By: Lab No.: Sample ID: LATITUDE:	FRAZIER/BATES 20173854 RV935	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-2-6 (0) 2
1. Testing Inform	nation:		
	Preconditioning - Permanent Strain > 5% (Y=Yes Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15)	· ·	N N 15
2. Specimen Info	ormation:		
	Specimen Diameter (in): Top Middle Bottom Average Membrane Thickness (in): Height of Specimen, Cap and Base (in):		3.94 3.95 3.95 3.95 0.01
	Height of Cap and Base (in): Initial Length, Lo (in): Initial Area, Ao (sq. in): Initial Volume, AoLo (cu. in):		0.00 8 12.16 97.27
			37.2
3. Soil Specimer			2020.00
	Weight of Wet Soil Used (g):		3303.90
4. Soil Properties	s:		
	Optimum Moisture Content (%): Maximum Dry Density (pcf): 95% of MDD (pcf): In-Situ Moisture Content (%):		14.1 117.8 111.9 N/A
5. Specimen Pro	nartias		
v. opeomien r 10	Wet Weight (g): Compaction Moisture content (%): Compaction Wet Density (pcf): Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		3303.90 14.1 129.41 113.42 14.0
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	11371(S	c)^-0.35834(S3)^0.26198
8. Comments			
9. Tested By:	GW Date:	January 26, 2018	

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

SSRVPS 11.05 16'LT Material Code Station No.: Location: January 26, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL.SECS.)(S) Name of Project:

SALINE Name: Code: 62

Material Type (1 or 2): 2 **AASHTO Class:** Depth: FRAZIER/BATES 20173854 RV935 Sampled By: Sample ID: Lab No.: County:

A-2-6 (0)

0-5

LONGITUDE: LATITUDE:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	Scyclic	Р _{тах}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	H _{avg}	ప	M
TINO	psi	psi	lbs	lbs	sql	psi	psi	psi	ņ	in/in	psi
Sequence 1	6.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00104	0.00013	14,087
Sequence 2	6.0	4.0	47.3	44.5	2.8	3.9	3.7	0.2	0.00241	0.00030	12,150
Sequence 3	6.0	6.0	9.69	0.99	3.6	5.7	5.4	0.3	0.00417	0.00052	10,425
Sequence 4	6.0	8.0	92.4	86.4	6.0	7.6	7.1	0.5	0.00635	0.00079	8,945
Sequence 5	6.0	10.0	115.3	106.9	8.4	9.5	8.8	0.7	0.00860	0.00107	8,184
Sequence 6	4.0	2.0	25.2	22.4	2.8	2.1	1.8	0.2	0.00114	0.00014	12,926
Sequence 7	4.0	4.0	46.8	44.1	2.7	3.8	3.6	0.2	0.00275	0.00034	10,543
Sequence 8	4.0	0.9	67.5	64.7	2.8	5.6	5.3	0.2	0.00483	09000.0	8,821
Sequence 9	4.0	8.0	90.2	85.1	5.1	7.4	7.0	0.4	0.00712	0.00089	7,867
Sequence 10	4.0	10.0	113.3	105.8	7.5	9.3	8.7	9.0	0.00954	0.00119	7,297
Sequence 11	2.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00136	0.00017	10,813
Sequence 12	2.0	4.0	46.4	43.6	2.8	3.8	3.6	0.2	0.00323	0.00040	8,871
Sequence 13	2.0	0.9	9.99	63.8	2.8	5.5	5.2	0.2	0.00554	0.00069	7,576
Sequence 14	2.0	8.0	87.8	83.6	4.2	7.2	6.9	0.3	0.00811	0.00101	6,782
Sequence 15	2.0	10.0	110.8	104.2	9.9	9.1	8.6	0.5	0.01067	0.00133	6,421

January 26, 2018

DATE DATE

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

Job No.061561Material Code SSRVPSDate Sampled:12/13/17Station No.: 11.05Date Tested:January 26, 2018Location: 16'LT

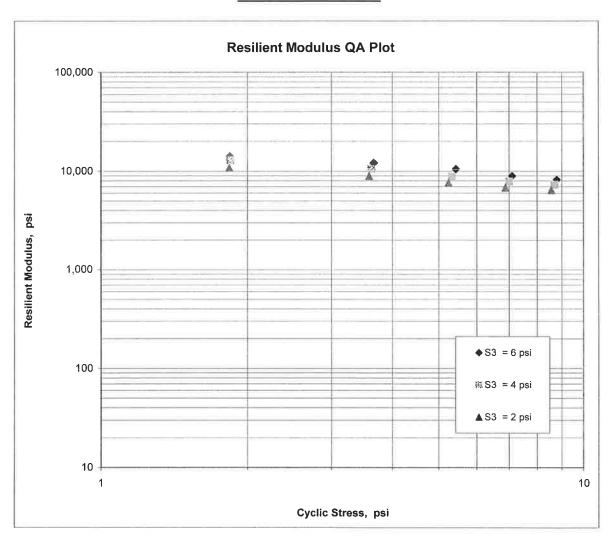
Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL.SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By:FRAZIER/BATESDepth: 0-5Lab No.:20173854AASHTO Class: A-2-6 (0)Sample ID:RV935Material Type (1 or 2): 2LATITUDE:LONGITUDE:

$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 11,371 K2 = -0.35834 K5 = 0.26198 $R^2 = 0.98$



Job No. Date Sampled: Date Tested: Name of Project:	061561 12/13/17 January 26, 2018 HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL	Material Code Station No.: Location: L.SECS.)(S)	SSRVPS 12.25 16'RT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	FRAZIER/BATES 20173855 RV936	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-6 (6) 2
1. Testing Inforn	nation:		
	Preconditioning - Permanent Strain > 5% (Y=Yes Testing - Permanent Strain > 5% (Y=Yes or N=No Number of Load Sequences Completed (0-15)		N N 15
2. Specimen Info	ormation:		
	Specimen Diameter (in): Top Middle Bottom Average Membrane Thickness (in):		3.95 3.94 3.94 3.94 0.01
	Height of Specimen, Cap and Base (in): Height of Cap and Base (in): Initial Length, Lo (in): Initial Area, Ao (sq. in): Initial Volume, AoLo (cu. in):		8.02 0.00 8.02 12.14 97.35
3. Soil Specimer	Neight: Weight of Wet Soil Used (g):		3196.70
4. Soil Properties	s:		
	Optimum Moisture Content (%): Maximum Dry Density (pcf): 95% of MDD (pcf): In-Situ Moisture Content (%):		15.9 111.4 105.8 N/A
5. Specimen Pro	nartias:		
2. Spoomon 7 10	Wet Weight (g): Compaction Moisture content (%): Compaction Wet Density (pcf): Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		3196.70 13.8 125.12 109.94 13.4
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	13426(S	c)^-0.02449(S3)^0.20944
8. Comments			
9. Tested By:	GW Date	January 26, 2018	

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

SSRVPS 16'RT 12.25 Material Code Station No.: Location: 12/13/17 061561 Date Sampled: Job No.

HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL.SECS.)(S) January 26, 2018 Name of Project: Date Tested:

SALINE Name: Code: 62

Material Type (1 or 2): 2 LONGITUDE: **AASHTO Class:** Depth: FRAZIER/BATES 20173855 RV936 Sampled By: Sample ID: Lab No.: County:

LATITUDE:

A-6 (6)

0-5

Resilient
Average
Actual
Actual
Actual Actual Actual Actual Actual Average Resilient
Actual
Actual
Actual
Nominal
amber

Chamber I	Nominal Maximum	Actual Applied	Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Average Recov Def.	Resilient Strain	Resilient Modulus
~	llax. Ax		Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
Stress Load	Load			Load	Axial	Stress	Stress	and 2		
					Stress					
S _{cyclic} P _{max}	P _{max}		P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	ယ်	Ā
psi lbs	lbs		sqi	sql	psi	psi	psi	in	in/in	psi
2.0 25.2	25.2		22.6	2.6	2.1	1.9	0.2	0.00077	0.00010	19,340
4.0 47.4	47.4		44.8	2.7	3.9	3.7	0.2	0.00152	0.00019	19,522
6.0 70.2	70.2		8.99	3.4	5.8	5.5	0.3	0.00231	0.00029	19,137
8.0 94.6	94.6		88.7	5.8	7.8	7.3	0.5	0.00320	0.00040	18,312
10.0 118.8	118.8		110.6	8.2	9.8	9.1	0.7	0.00414	0.00052	17,644
2.0 25.3	25.3		22.8	2.4	2.1	1.9	0.2	0.00086	0.00011	17,585
4.0 47.4	47.4	-	44.9	2.6	3.9	3.7	0.2	0.00168	0.00021	17,636
6.0 69.3	69.3	-	66.7	2.6	5.7	5.5	0.2	0.00253	0.00032	17,402
8.0 93.5	93.5	-	88.5	4.9	7.7	7.3	0.4	0.00341	0.00042	17,172
10.0 117.5	117.5		110.1	7.4	9.7	9.1	9.0	0.00434	0.00054	16,778
2.0 25.1	25.1	_	22.5	5.6	2.1	1.9	0.2	0.00101	0.00013	14,734
4.0 47.2	47.2		44.5	2.7	3.9	3.7	0.2	0.00195	0.00024	15,050
6.0 69.1	69.1	-	66.4	2.7	5.7	5.5	0.2	0.00295	0.00037	14,889
8.0 92.4	92.4		88.3	4.1	7.6	7.3	0.3	0.00388	0.00048	15,035
10.0 116.4	116.4	-	109.8	9.9	9.6	9.0	0.5	0.00486	0.00061	14,939

January 26, 2018 DATE DATE REVIEWED BY TESTED BY

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

Job No. 061561 Material Code SSRVPS

Date Sampled:12/13/17Station No.: 12.25Date Tested:January 26, 2018Location: 16'RT

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL.SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By:FRAZIER/BATESDepth: 0-5Lab No.:20173855AASHTO Class: A-6 (6)Sample ID:RV936Material Type (1 or 2): 2LATITUDE:LONGITUDE:

LATITUDE: LONG

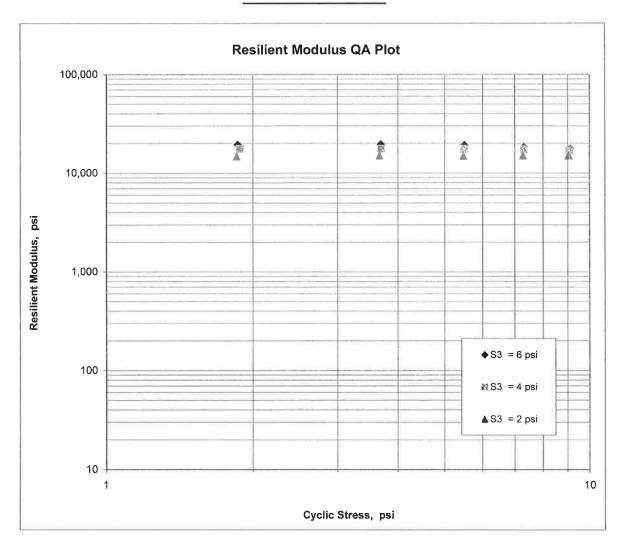
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 13,426

K2 = -0.02449

K5 = 0.20944

 $R^2 = 0.96$



Testing - Permanent Strain > 5% (Y=Yes or N=No)	
Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S) County: Code: 62 Name: SALINE Sampled By: FRAZIER/BATES Depth: 0-5 Lab No.: 20173856 AASHTO Class: A-4 (1) Sample ID: RV937 Material Type (1 or 2): 2 LATITUDE: LONGITUDE: 1. Testing Information: Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
County: Code: 62 Name: SALINE Sampled By: FRAZIER/BATES Depth: 0-5 Lab No.: 20173856 AASHTO Class: A-4 (1) Sample ID: RV937 Material Type (1 or 2): 2 LATITUDE: Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
Sampled By: FRAZIER/BATES Depth: 0-5 Lab No.: 20173856 AASHTO Class: A-4 (1) Sample ID: RV937 Material Type (1 or 2): 2 LATITUDE: Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
Lab No.: 20173856 AASHTO Class: A-4 (1) Sample ID: RV937 Material Type (1 or 2): 2 LATITUDE: LONGITUDE: 1. Testing Information: Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
Sample ID: RV937 Material Type (1 or 2): LONGITUDE: 1. Testing Information: Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
LATITUDE: 1. Testing Information: Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
Preconditioning - Permanent Strain > 5% (Y=Yes or N= No) Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	N 15 95
Number of Load Sequences Completed (0-15) 2. Specimen Information: Specimen Diameter (in):	15 95
2. Specimen Information: Specimen Diameter (in):	95
Specimen Diameter (in):	
Top 3.9	
· ·	
Middle 3.9	95
Bottom 3.9	96
Average 3.9	95
Membrane Thickness (in): 0.0	01
Height of Specimen, Cap and Base (in):	01
Height of Cap and Base (in):	00
Initial Length, Lo (in): 8.0	01
Initial Area, Ao (sq. in):	20
Initial Volume, AoLo (cu. in):	73
3. Soil Specimen Weight:	
Weight of Wet Soil Used (g): 3175.4	40
4. Soil Properties:	
Optimum Moisture Content (%):	5.1
Maximum Dry Density (pcf): 10	09
95% of MDD (pcf): 103.	.6
In-Situ Moisture Content (%):	/A
5. Specimen Properties:	
Wet Weight (g): 3175.4	
Compaction Moisture content (%):	
Compaction Wet Density (pcf): 123.8	
Compaction Dry Density (pcf): 106.8	
Moisture Content After Mr Test (%): 15.	8.
6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable): #VALUE	E!
7. Resilient Modulus, Mr: 12121(Sc)^-0.22140(S3)^0.2526	62
8. Comments	
9. Tested By: GW Date: January 30, 2018	

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

SSRVPS 16'RT 14.4 Material Code Station No.: Location: January 30, 2018 12/13/17 061561 Date Sampled: Date Tested: Job No.

HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S) Name of Project:

AASHTO Class: A-4 (1)
Material Type (1 or 2): 2 Depth: SALINE Name: FRAZIER/BATES Code: 62 20173856 RV937 Sampled By: Sample ID: Lab No.: County:

0-5

LONGITUDE: LATITUDE:

Nominal Actual Actual Actual		Actual Applied	_	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Average Recov Def.	Resilient Strain	Resilient
Pressure	Axial	~	Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
	Stress	Load		Load	Axial	Stress	Stress	and 2		
					Stress					
	S _{cyclic}	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	3	M
	psi	sql	sql	sql	psi	psi	psi	<u>.</u> ⊑	in/in	psi
	2.0	25.2	22.5	2.7	2.1	1.8	0.2	0.00092	0.00012	15,988
	4.0	47.5	44.8	2.7	3.9	3.7	0.2	0.00194	0.00024	15,152
	6.0	70.2	9.99	3.6	5.8	5.5	0.3	0.00318	0.00040	13,759
	8.0	93.3	87.3	5.9	7.6	7.2	0.5	0.00468	0.00058	12,243
	10.0	116.2	107.9	8.3	9.5	8.8	0.7	0.00630	0.00079	11,243
	2.0	25.2	22.6	2.6	2.1	1.9	0.2	0.00100	0.00012	14,827
	4.0	47.1	44.5	2.6	3.9	3.6	0.2	0.00221	0.00028	13,234
	0.9	68.4	65.8	2.6	5.6	5.4	0.2	0.00361	0.00045	11,981
	8.0	91.4	86.4	5.0	7.5	7.1	0.4	0.00516	0.00064	10,990
4.0	10.0	114.2	106.9	7.3	9.4	8.8	9.0	0.00682	0.00085	10,284
2.0	2.0	25.1	22.5	5.6	2.1	2 .8	0.2	0.00121	0.00015	12,227
	4.0	46.6	44.0	2.6	3.8	3.6	0.2	0.00258	0.00032	11,194
	0.9	67.1	64.5	2.6	5.5	5.3	0.2	0.00417	0.00052	10,137
2.0	8.0	88.8	84.6	4.2	7.3	6.9	0.3	0.00590	0.00074	9,408
2.0	10.0	111.4	104.7	9.9	9.1	9.8	0.5	0.00769	0.00096	8,942

January 30, 2018

DATE DATE

ΘW

REVIEWED BY

TESTED BY

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

Job No. 061561 Material Code SSRVPS

Date Sampled:12/13/17Station No.: 14.4Date Tested:January 30, 2018Location: 16'RT

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

County: Code: 62 Name: SALINE

Sampled By:FRAZIER/BATESDepth: 0-5Lab No.:20173856AASHTO Class: A-4 (1)Sample ID:RV937Material Type (1 or 2): 2LATITUDE:LONGITUDE:

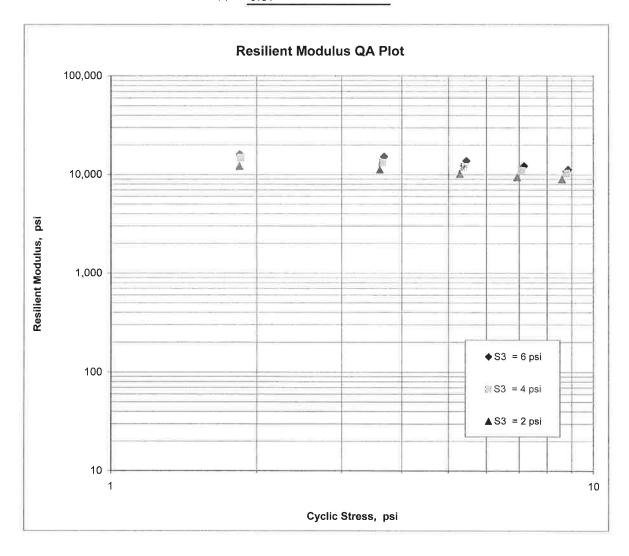
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 12,121$$

$$K2 = -0.22140$$

$$K5 = 0.25262$$

$$R^2 = 0.97$$



Job No. Date Sampled: Date Tested: Name of Project: County: Sampled By:	061561 12/13/17 January 30, 2018 HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S Code: 62 Name: SALINE FRAZIER/BATES	Material Code Station No.: Location: SEL. SECS.)(S) Depth:	SSRVPS 15.65 16'LT
Lab No.: Sample ID: LATITUDE:	20173857 RV938	AASHTO Class: Material Type (1 or 2): LONGITUDE:	A-4 (4)
1. Testing Inform	nation:	×	*
	Preconditioning - Permanent Strain > 5% (Y=Ye Testing - Permanent Strain > 5% (Y=Yes or N=Number of Load Sequences Completed (0-15)	·	N N 15
2. Specimen Info	rmation:		
	Specimen Diameter (in):		
	Тор		3.95
	Middle		3.94
	Bottom		3.94
	Average		3.94
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8.01
	Height of Cap and Base (in): Initial Length, Lo (in):		0.00 8.01
	Initial Area, Ao (sq. in):		12.14
			97.23
	Initial Volume, AoLo (cu. in):		97.23
3. Soil Specimen	Weight:		
	Weight of Wet Soil Used (g):		3131.50
4. Soil Properties	s:		
	Optimum Moisture Content (%):		15.0
	Maximum Dry Density (pcf):		109.5
	95% of MDD (pcf):		104.0
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3131.50
	Compaction Moisture content (%):		15.3
	Compaction Wet Density (pcf):		122.72
	Compaction Dry Density (pcf):		106.43
	Moisture Content After Mr Test (%):		15.0
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mode	ulus, Mr:	12755(S	c)^-0.15259(S3)^0.24290
8. Comments			
9. Tested By:	<u>GW</u> Da	te: January 30, 2018	c

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

SSRVPS 15.65 16'LT Material Code Station No.: Location: January 30, 2018 12/13/17 061561 Date Sampled: Date Tested:

Job No.

HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S) Name of Project:

Depth: SALINE Name: FRAZIER/BATES **Code:** 62 Sampled By: County:

RV938 LATITUDE: Sample ID:

20173857

Lab No.:

Material Type (1 or 2): 2 LONGITUDE:

0-5

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
PARAMETER	Confining Pressure	Maximum Axial	Applied Max Axial	Applied Cyclic Load	Applied Contact	Applied	Applied Cyclic	Applied Contact	Recov Def.	Strain	Modulus
		Stress			Load	Axial	Stress	Stress	and 2		
						Stress				3	
DESIGNATION	လိ	Seyclic	Р _{шах}	P _{cyclic}	Pcontact	S _{max}	S _{cyclic}	Scontact	H _{avg}	ယ်	Ā
TIND	psi	psi	lbs	lps	sqj	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.2	22.5	2.7	2.1	1.9	0.2	0.00083	0.00010	17,996
Sequence 2	6.0	4.0	46.9	44.3	2.6	3.9	3.6	0.2	0.00172	0.00022	16,941
Sequence 3	6.0	0.9	69.5	0.99	3.5	5.7	5.4	0.3	0.00276	0.00035	15,761
Sequence 4	0.9	8.0	93.1	87.2	5.9	7.7	7.2	0.5	0.00401	0.00050	14,365
Sequence 5	0.9	10.0	116.6	108.3	8.3	9.6	8.9	0.7	0.00530	0.00066	13,486
Sequence 6	4.0	2.0	25.0	22.4	2.6	2.1	1.8	0.2	0.00093	0.00012	15,931
Sequence 7	4.0	4.0	46.8	44.2	2.6	3.9	3.6	0.2	0.00196	0.00024	14,910
Sequence 8	4.0	6.0	68.2	65.5	2.7	5.6	5.4	0.2	0.00311	0.00039	13,917
Sequence 9	4.0	8.0	91.7	86.7	5.0	7.6	7.1	0.4	0.00437	0.00055	13,106
Sequence 10	4.0	10.0	114.9	107.5	7.4	9.5	8.9	9.0	0.00571	0.00071	12,424
Sequence 11	2.0	2.0	24.9	22.3	2.6	2.1	1.8	0.2	0.00112	0.00014	13,168
Sequence 12	2.0	4.0	46.5	43.8	2.7	3.8	3.6	0.2	0.00229	0.00029	12,602
Sequence 13	2.0	0.9	9'.29	64.9	2.7	5.6	5.3	0.2	0.00360	0.00045	11,881
Sequence 14	2.0	8.0	89.7	85.6	4.1	7.4	7.1	0.3	0.00497	0.00062	11,370
Sequence 15	2.0	10.0	112.9	106.2	6.7	9.3	8.8	9.0	0.00640	0.00080	10,956

January 30, 2018 DATE DATE ďΜ REVIEWED BY TESTED BY

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

Job No. 061561 **Material Code SSRVPS**

Date Sampled:

12/13/17

Station No.: 15.65

Date Tested:

January 30, 2018

Location: 16'LT

Name: SALINE

Name of Project: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(SEL. SECS.)(S)

County:

Code: 62

Sampled By: Lab No.:

FRAZIER/BATES

Depth: 0-5 AASHTO Class: A-4 (4)

Sample ID:

20173857 RV938

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

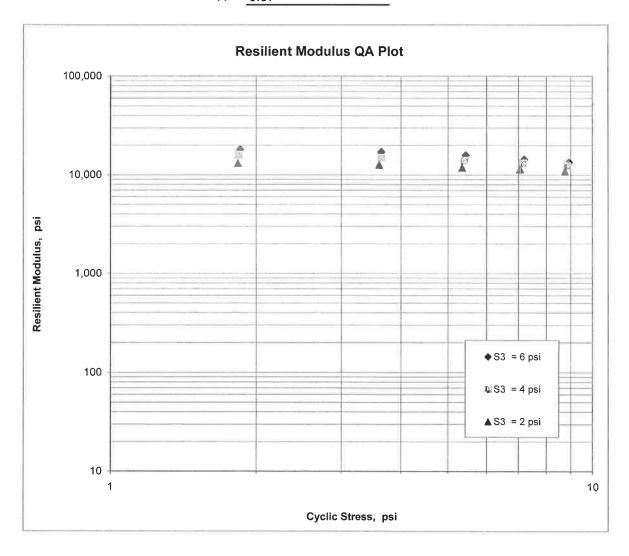
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 12,755$$

$$K2 = -0.15259$$

$$K5 = 0.24290$$

$$R^2 = 0.97$$



JOB NAME: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S)

Materials Division

COUNTY NO. 62 DATE TESTED

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB#:	%MOISTURE
01.5	16 RT	0-5	BROWN	80	77	74	71	63	27	07	A-4(2)	RV930	
02.75	16 LT	0-5	BROWN	63	54	45	41	38	32	13	A-6(1)	RV931	
05.8	16 RT	0-5	BROWN	85	80	74	72	69	33	13	A-6(7)	RV932	
07.05	16 LT	0-5	BR/GR	73	61	49	45	42	26	07	A-4(0)	RV933	
09.8	16 RT	0-5	BR/GR	65	52	40	37	35	31	10	A-2-4(0)	RV934	
11.05	16 LT	0-5	BR/GR	58	48	37	34	31	36	16	A-2-6(0)	RV935	
12.25	16 RT	0-5	BR/RD	85	83	79	73	65	32	13	A-6(6)	RV936	
14.40	16 RT	0-5	BROWN	67	60	53	49	44	27	09	A-4(1)	RV937	
15.65	16 LT	0-5	BROWN	79	75	72	70	64	28	09	A-4(4)	RV938	
0.05	05 RT	0-5	BROWN	89	81	70	64	59	25	01	A-4(0)	S797	18.5
0.05	16 RT	0-3Z	BROWN	98	92	76	65	54	21	06	A-4(0)	S798	4
0.30	05 LT	0-5	BR/RD	93	86	77	73	69	35	16	A-6(9)	S799	20.2
0.30	16 LT	0-3.5Z	BROWN	94	87	76	71	65	34	14	A-6(7)	S800	12
0.55	05 RT	0-5	RED	98	97	92	87	81	45	23	A-7-6(19)	S801	15.8
0.55	16 RT	0-5	RED	97	96	92	89	80	43	23	A-7-6(18)	S802	15.3
0.80	05 LT	0-2.5Z	BROWN	95	89	80	74	69	36	17	A-6(10)	S803	21.2
0.80	16 LT	0-5	BROWN	88	80	72	68	62	ND	NP	A-4(0)	S804	12.2
01.05	05 RT	0-5	RD/BR	95	91	85	82	78	36	16	A-6(12)	S805	20.1
01.05	16 RT	0-5	RD/BR	95	89	83	86	76	ND	NP	A-4(0)	S806	12.8
01.3	05 LT	0-2Z	RD/BR	92	83	72	65	57	26	10	A-4(3)	S807	14.4
01.30	16 LT	0-5	RD/BR	82	75	63	57	49	28	11	A-6(2)	S808	9.1
01.5	05 RT	0-5	RD/BR	97	92	85	80	71	45	20	A-7-6(14)	S809	22.2
01.5	16 RT	0-5	BROWN	95	91	85	80	70	30	11	A-6(6)	S810	15.6
01.75	05 LT	0-5	RD/BR	93	82	67	59	51	19	04	A-4(0)	S811	7.7
01.75	16 LT	0-2.5Z	RD/BR	90	82	68	62	54	22	07	A-4(1)	S812	6,6
02.0	05 RT	0-5	RD/BR	99	98	93	90	85	49	22	A-7-6(21)	S813	24.7

STA.#	LOC. 1	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	<i>P.I</i> .	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
02.0	16 RT	0-5	BR/RD	97	95	91	88	82	41	19	A-7-6(16)	S814	17.6
02.25	05 LT	0-5	BROWN	96	90	81	77	71	34	15	A-6(9)	S815	21.3
02.25	16 LT	0-5	BR/GR	94	83	69	64	58	28	10	A-4(3)	S816	16.8
02.5	05 RT	0-5	BR/GR	95	84	71	65	59	38	19	A-6(9)	S817	19.2
02.5	16 RT	0-5	BROWN	90	80	68	64	59	36	16	A-6(7)	S818	13.3
02.75	05 LT	0-5	BROWN	87	77	65	60	55	38	18	A-6(7)	S819	14.2
02.75	16 LT	0-5	BROWN	95	86	66	61	61	39	19	A-6(9)	S820	19.3
03.0	05 RT	0-5	BR/GR	89	78	75	74	68	31	13	A-6(7)	S821	12.3
03.0	16 RT	0-5	BR/GR	96	88	76	71	64	38	18	A-6(9)	S822	14.2
03.25	05 LT	0-5	BR/GR	96	88	75	68	61	42	20	A-7-6(10)	S823	18.6
03.25	16 LT	0-5	BR/GR	95	87	75	69	63	41	21	A-7-6(11)	S824	11.1
03.5	05 RT	0-5	BR/GR	89	79	66	60	54	31	12	A-6(4)	S825	18.9
03.5	16 RT	0-5	BROWN	81	70	57	52	46	34	13	A-6(3)	S826	14.5
03.7	05 RT	0-5	BR/GR	97	88	76	72	67	42	23	A-7-6(14)	S827	12.7
03.7	16 RT	0-5	BR/GR	90	82	69	64	59	44	22	A-7-6(11)	S828	9.1
03.95	05 LT	0-5	BROWN	91	80	67	62	57	35	16	A-6(6)	S829	15.6
03.95	16 LT	0-5	RD/BR	95	86	74	68	62	40	19	A-6(10)	S830	19.5
04.2	05 RT	0-3.5Z	RD/BR	94	84	68	67	58	30	14	A-6(5)	S831	10.2
04.2	16 RT	0-3Z	RD/BR	90	81	67	61	55	26	08	A-4(2)	S832	8.7
04.45	05 LT	0-3Z	RD/BR	93	81	66	58	54	30	13	A-6(4)	S833	10.8
04.45	16 LT	0-3Z	RD/BR	91	81	65	58	53	27	11	A-6(3)	S834	8.5
04.8	05 RT	0-3Z	BR/GR	96	80	55	45	39	27	10	A-4(1)	S835	5
04.8	16 RT	0-5	BR/GR	99	92	74	66	61	33	11	A-6(5)	S836	10.7
05.05	05 LT	0-5	GRAY	95	91	84	81	76	36	20	A-6(13)	S837	18.2
05.05	16 LT	0-5	BROWN	98	96	92	90	86	34	17	A-6(14)	S838	19.7
05.3	05 RT	0-5	BR/GR	87	74	58	53	48	32	15	A-6(4)	S839	11.4
05.3	16 RT	0-5	BR/GR	90	79	63	58	52	33	15	A-6(5)	S840	9.9
05.55	05 LT	0-5	BR/RD	98	94	86	82	77	37	21	A-6(15)	S841	14.8

STA.#	LOC. I	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	<i>P.I.</i>	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
05.55	16 LT	0-2Z	BR/GR	83	71	57	52	48	28	10	A-4(2)	S842	9.2
05.8	05 RT	0-5	BROWN	97	91	83	80	77	ND	NP	A-4(0)	S843	17.2
05.8	16 RT	0-5	BROWN	87	80	70	66	63	28	09	A-4(3)	S844	7.8
06.05	05 LT	0-5	BR/GR	97	93	85	81	73	38	16	A-6(11)	S845	27.1
06.05	16 LT	0-5	BR/GR	94	85	69	61	56	34	12	A-6(4)	S846	11
06.3	05 RT	0-3.5 Z	BR/GR	96	87	73	68	63	29	11	A-6(5)	S847	11.1
06.3	16 RT	0-5	BR/GR	94	86	74	69	64	30	12	A-6(5)	S848	12.3
06.55	05 LT	0-4.5Z	BR/GR	100	98	89	82	76	31	13	A-6(8)	\$849	8.2
06.55	16 LT	0-5	BR/GR	89	81	68	61	56	33	11	A-6(4)	S850	12.7
06.8	05 RT	0-5	BR/GR	96	90	79	72	67	31	11	A-6(5)	S851	14.1
06.8	16 RT	0-4Z	BR/GR	94	82	68	58	50	ND	NP	A-4(0)	S852	7.8
07.05	05 LT	0-5	BR/GR	94	85	72	66	61	28	10	A-4(4)	S853	13.6
07.05	16 LT	0-5	BR/GR	92	92	65	59	54	29	10	A-4(3)	S854	20.3
07.3	05 RT	0-5	BR/GR	100	96	84	78	72	39	16	A-6(11)	S855	16.1
07.3	16 RT	0-5	BR/GR	97	94	88	85	83	46	23	A-7-6(20)	S856	24.6
07.55	05 LT	0-5	BR/GR	93	83	69	63	58	32	14	A-6(5)	S857	11.8
07.55	16 L T	0-5	BR/GR	94	83	68	61	57	33	14	A-6(5)	S858	11.9
07.8	05 RT	0-5	BR/GR	90	80	69	65	61	36	18	A-6(8)	S859	16.7
07.8	16 RT	0-5	BR/GR	98	92	80	76	72	31	13	A-6(7)	S860	11.3
08.05	05 LT	0-5	BR/GR	95	87	74	68	63	34	12	A-6(6)	S861	14.6
08.05	16 LT	0-5	BR/GR	95	89	79	75	71	44	21	A-7-6(14)	S862	19.2
08.3	05 RT	0-5	BR/GR	99	95	84	79	75	38	15	A-6(11)	S863	18.4
08.3	16 RT	0-5	BR/GR	99	96	88	84	81	47	22	A-7-6(19)	S864	23.1
08.55	05 LT	0-5	BR/GR	95	86	73	68	64	34	13	A-6(6)	S865	18.6
08.55	16 LT	0-5	BR/GR	85	73	59	54	50	33	12	A-6(3)	S866	19.7
08.8	05 RT	0-5	BR/RD	98	94	89	88	84	33	16	A-6(12)	S867	29.9
08.8	16 RT	0-5	BR/RD	93	87	76	73	69	33	16	A-6(9)	S868	13.7
09.05	05 LT	0-5	BR/GR	96	86	69	62	56	26	09	A-4(2)	S869	7.3

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
09.05	16 LT	0-3Z	BR/GR	90	78	63	58	54	27	09	A-4(2)	S870	9.2
09.3	05 RT	0-5	BR/GR	96	87	74	70	66	45	22	A-7-5(14)	S871	13.5
09.3	16 RT	0-5	BROWN	83	73	60	56	52	35	15	A-6(5)	S872	16.1
09.55	05 LT	0-5	BR/GR	98	90	70	63	58	31	09	A-4(3)	S873	14.7
09.55	16 LT	0-5	BR/GR	89	74	54	46	42	28	08	A-4(0)	S874	5
09.8	05 RT	0-5	BR/GR	90	79	64	58	54	33	11	A-6(4)	S875	14.1
09.8	16 RT	0-5	BR/GR	90	79	64	59	55	31	08	A-4(2)	S876	13.4
10.05	05 LT	0-5	BROWN	87	74	57	53	51	31	11	A-6(3)	S877	17.9
10.05	16 L T	0-5	BR/GR	95	86	72	67	64	33	11	A-6(5)	S878	12.3
10.3	05 RT	0-5	BR/GR	94	80	63	56	52	29	11	A-6(3)	S879	12.4
10.3	16 RT	0-5	BR/GR	85	72	58	52	49	30	11	A-6(2)	S880	8.7
10.55	05 LT	0-5	BROWN	89	78	63	58	54	31	12	A-6(4)	S881	12.6
10.55	16 LT	0-5	BR/GR	92	81	66	60	55	32	12	A-6(4)	S882	10.5
10.8	05 RT	0-5	BROWN	97	89	78	76	67	38	17	A-6(10)	S883	20.4
10.8	16 RT	0-5	BROWN	87	73	58	54	51	32	12	A-6(3)	S884	15
11.05	05 LT	0-5	BR/GR	86	72	59	54	50	32	14	A-6(4)	S885	14.5
11.05	16 LT	0-5	BR/GR	80	68	53	47	43	34	15	A-6(3)	S886	12.9
11.3	05 RT	0-3.5Z	BR/GR	98	92	78	73	65	31	12	A-6(6)	S887	12.7
11.3	16 RT	0-5	BR/GR	96	90	77	70	65	29	12	A-6(5)	S888	12.1
11.55	05 LT	0-5	BR/RD	87	75	59	54	50	35	15	A-6(4)	S889	12.4
11.55	16 LT	0-5	BR/RD	94	86	73	69	65	35	15	A-6(8)	S890	17.3
11.8	05 RT	0-5	BR/GR	96	84	67	61	58	31	14	A-6(5)	S891	13.1
11.8	16 RT	0-5	BROWN	89	78	62	55	52	28	08	A-4(2)	S892	7.5
12.25	05 RT	0-4Z	BR/RD	96	92	82	74	66	29	11	A-6(5)	S893	16.5
12.25	16 RT	0-5	BR/RD	93	88	80	72	63	38	16	A-6(8)	S894	16.4
12.9	05 RT	0-2.5 Z	GR/BR	88	77	61	54	46	34	14	A-6(3)	S895	8.5
12.9	16 RT	Γ 0-1.5Z	RD/BR	80	68	53	45	37	ND	NP	A-4(0)	S896	7.5
13.15	05 LT	0-2Z	RD/BR	76	61	51	47	37	26	08	A-4(0)	S897	17.8

STA.#	LOC. I	DEPTH	COLOR	#4	#10	#40	#80	#200 E S	L.L.	P.I.	SOIL CLAS	SS LAB#:	%MOISTURE
13.15	16 LT	0-3Z	RD/BR	80	67	58	51	40	ND	NP	A-4(0)	S898	9.6
13.4	05 RT	0-5	GRAY	95	86	69	63	56	36	17	A-6(7)	S899	11.4
13.4	16 RT	0-5	GRAY	89	82	71	65	60	39	16	A-6(8)	S900	17.3
13.65	05 LT	0-5	BR/GR	92	82	75	72	68	44	19	A-7-6(12)	S901	24.1
13.65	16 LT	0-5	BR/RD	79	70	62	58	54	40	17	A-6(7)	S902	20
13.9	05 RT	0-4.5Z	GR/BR	97	90	72	62	55	26	08	A-4(2)	S903	4.1
13.9	16 RT	0-4Z	GR/BR	93	84	68	58	51	27	80	A-4(1)	S904	7.5
14.15	05 LT	0-5	BR/RD	95	88	79	74	69	37	14	A-6(8)	S 905	16.1
14.15	16 LT	0-5	BROWN	94	85	72	65	56	25	08	A-4(2)	S906	12.2
14.40	05 RT	0-5	BROWN	99	94	83	77	70	30	10	A-4(5)	S907	22.5
14.40	16 RT	0-5	BROWN	96	91	82	77	73	34	12	A-6(8)	S908	19.3
14.9	05 RT	0-5	BR/GR	97	94	88	82	73	33	13	A-6(8)	S909	16.2
14.9	16 RT	0-5	BR/RD	80	75	69	65	57	30	13	A-6(5)	\$910	13.5
15.15	05 LT	0-3Z	BR/RD		12.10	100		(3) do 10				S911	13.1
15.15	16 LT	0-3Z	BR/RD	86	80	73	66	55	25	08	A-4(2)	S912	12.9
15.4	05 RT	0-5	BR/GR	95	85	71	64	58	31	08	A-4(3)	S913	13.5
15.4	16 RT	0-5	BROWN	85	75	62	55	48	29	08	A-4(1)	S914	8.3
15.65	05 LT	0-5	BROWN	90	84	79	74	67	31	11	A-6(5)	S915	18.5
15.65	16 LT	0-5	BROWN	85	80	75	71	64	27	80	A-4(3)	S916	19.3
15.9	05 RT	0-5	GRAY	93	88	77	71	64	35	13	A-6(7)	S917	7
15.9	16 RT	0-3.5Z	GRAY	86	76	65	59	54	39	17	A-6(6)	S918	9.6
16.15	05 LT	0-3Z	RD/BR	95	85	73	67	61	30	11	A-6(4)	S919	12
16.15	16 LT	0-1Z	BR/RD		0.510	(COL 2)	1000					S920	8.3
16.4	05 RT	0-5	BR/GR	84	75	65	61	53	31	13	A-6(4)	S921	12.7
16.4	16 RT	0-5	BROWN	71	62	55	51	41	27	09	A-4(1)	S922	10.5
16.65	05 LT	0-3Z	BR/GR	94	83	69	63	55	36	14	A-6(5)	S923	10.8
16.65	16 LT	0-2Z	BR/GR	97	86	71	66	61	34	13	A-6(6)	S924	7.8
16.9	05 RT	0-4Z	BR/GR	87	76	62	56	48	28	13	A-6(3)	\$925	6.3

STA.#	LOC. DEPTH	COLOR	#4 #10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
16.9	16 RT 0-2.5Z	GRAY	91 79	63	56	50 S	29	09	A-4(2)	S926	5.2
17.15	05 LT 0-3Z	RD/BR	91 80	68	63	54	31	11	A-6(3)	S927	16.5
17.15	16 LT 0-3Z	RD/BR	88 79	68	63	55	31	11	A-6(4)	S928	10.7
17.4	05 RT 0-5	BR/GR	93 89	83	79	72	35	16	A-6(10)	S929	10.4

JOB: JOB NAME: HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S) 061561

Arkansas State Highway Transporation Department Materials Division

DATE TESTED 1/29/2018

COUNTY NO. 62

Michael Benson, Materials Engineer

COUN	COUNTY NO.	62			Michael Benson, Maier	aieriais Engineei		
STA.#	LOC.				PAVEMENT SOUND	INDINGS		
0.05	05 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.125	3.75W	4.0				
0.05	16 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		I	1	1				
0.30	05 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.125	6.5W	5.0				
0.30	16 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		1	1	į				
0.55	05 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.125	3.75W	4.0				
0.55	16 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		1	I	I				
0.80	05 LT	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7	
		1.125	.125	1.75	.125	3.5W	5.0	
0.80	16 LT	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7	
		I sur	15	CANADA		E	Ī	
01.05	05 RT	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7	
		ľ	.125	3.75	Ê	ľ	4.0	
01.05	16 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		II.	1					
01.3	05 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.125	5.0W	5.0				
01.30	16 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		I	I					
01.5	05 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.125	3.75W	5.0				
01.5	16 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		1	1	1				
01.75	05 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.250	3.25W	5.0				
01.75	16 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		1	1	1				
02.0	05 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7				
		.125	3.125W	4.0				
								1

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Wednesday, January 31, 2018

			UGER REFUSAL	W=MULTIPLE LAYERS. X=STRIPPED. Z=AUGER REFUSAL	-MULTIPLE LAYE	- 1	commonts.
			I.	ï	i		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 RT	04.2
			4.0	4.0W	.25		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	05 RT	04.2
			E	Ē	ı		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 LT	03.95
			5.0	2.25W	.125		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	05 LT	03.95
			I	Î	ŀ		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 RT	03.7
			4.0	5.0W	.125		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	05 RT	03.7
		1	1	Ī	Ĩ		
		AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	16 RT	03.5
		4.0	1.5	4.0W	.125		
		AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	05 RT	03.5
		1	1	Î	Ĩ		
		AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	16 LT	03.25
		5.0	6.5W	.125	1.0		
		AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	05 LT	03.25
			1	Ĭ	1		
		AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	16 RT	03.0
		5.0	3.5W	.25	1.5		
		AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	05 RT	03.0
			1	1	ı		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 LT	02.75
			5.0	4.5W	.125		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	05 LT	02.75
			1	1	1		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 RT	02.5
2.0	4.0WX		.125	2.125	1		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	02.5
1	1	1	1	I	1		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	02.25
5.0	1	1.0	1	6.0W	.125		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	02.25
				1	1		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 RT	02.0
	NDINGS	PAVEMENT SOUN				LOC.	SIA.#

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

STA.#	LOC.				PAVEMENT SOUN	NDINGS	
04.45	05 LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		.25	2.75W	•	5.0		
04.45	16 LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		I	1	1	ı		
04.8	05 RT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
04.8	16 RT	ACHMSC	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	CL-7
		I	I	ľ	1	ı	
05.05	05 LT	ACHMSC	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	CL-7
		1.0	.125	4.5W	3.0	5.0	
05.05	16 LT	ACHMSC	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	CL-7
		I	1	1		1	
05.3	05 RT	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7
		1.5	.25	1.0	.25	2.75W	4.0
05.3	16 RT	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7
		I	i		1	1	1
05.55	05 LT	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7
		i	.125	3.0WX	I	1	6.0
05.55	16 LT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7			
		I	1				
05.8	05 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7			
		.125	4.25WX	6.0			
05.8	16 RT	CHIP SEAL	ACHMSC	AGG.BASE CRS CL-7			
		1	1	ı			
06.05	05 LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		.25	4.5W	1.5	5.0		
06.05	16 LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		ij.			1		
06.3	05 RT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		.125	2.25W	1.125	5.0		
06.3	16 RT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		1	1	I	1		
06.55	05 LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		.25	3.0WX	1.0	5.0		
06.55	16 LT	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		1		Ĩ	Ĩ		
06.8	05 RT	ACHMSC	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	CL-7
		1.0	.25	2.5W	1	5.0	
comments:	- 1	/=MULTIPLE LAYE	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	UGER REFUSAL			
COMMISSION						* * * *	1

21 2010	W. J J		=AUGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	=MULTIPLE LAYE	- 1	comments:
1	1	j	1	1	1		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	09.05
4.0	ļ	1.5	Ì	1.0W	.125		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	09.05
	1	J	1	1	1		
3 CL-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	16 RT	08.8
	5.0	1.25	3.0	.50	1.25		
3 CL-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	05 RT	08.8
	1	1	1	T.	1		
3 CL-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	16 LT	08.55
	4.0	3.5W	.125	.75	1		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	08.55
		Ĭ.	I		1		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	08.3
	5.0	İ		7.0W	.125		
3 CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	08.3
		ľ	Ē		I		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	08.05
	5.0	4.0W	.25	1.75	.125		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	08.05
	ľ	Ê	Ĩ	Ţ	E		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	07.8
5.0	i	1.0	Ĩ	2.0W	.125		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	07.8
ï	ľ	Ê	Ĭ	Ę	I		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	07.55
6.0	2.75	Ĭ	.25	2.5	.125		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	07.55
	3			1	1		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	07.3
	6.0	3.0W	.125	2.125	.125		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	07.3
	1	Ĭ	•	I	I		
S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	07.05
	6.0	1.0	3.0W	.125	I		
S CL-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	05 LT	07.05
	I	I		Į.	l		
S CL-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	16 RT	06.8
	DUNDINGS	PAVEMENT SOUNDINGS				LOC.	STA.#

Wednesday, January 31, 2018		GER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	V=MULTIPLE LAYE	- 1	comments:
			6.0	3.5W		
			AGG.BASE CRS CL-7	ACHMSC	05 LT	11.55
			1	1		
			AGG.BASE CRS CL-7	ACHMSC	16 RT	11.3
			9.0	4.5WX		
			AGG.BASE CRS CL-7	ACHMSC	05 RT	11.3
			1			
			AGG.BASE CRS CL-7	ACHMSC	16 LT	11.05
			6.0	3.25WX		
			AGG.BASE CRS CL-7	ACHMSC	05 LT	11.05
			AGG.BASE CRS CL-7	ACHMSC	16 RT	10.8
5.0	2.50	1.25	.75	1		
AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	10.8
1	1	1	1	1		
AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	10.55
5.0	1	1	4.5W	.50		
AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	10.55
	ţ	1	1	I		
	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	16 RT	10.3
	6.0	3.25	.125	1.0		
	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	05 RT	10.3
		ľ	I	ı		
	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	16 LT	10.05
5.0	3.25	£	.25	4.75		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	05 LT	10.05
Ĭ.	I	I	Ī	Ì		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	16 RT	09.8
5.0	Ĩ	1.0	Ĩ	2.5		
AGG.BASE CRS CL-7	ACHMSC	ACHMBC	CHIP SEAL	ACHMSC	05 RT	09.8
		1	Ĭ	Ĭ		
	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	16 LT	09.55
	6.0	3.25W	.125	.75		
	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	05 LT	09.55
	ı	£	Ē	ľ		
	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	16 RT	09.3
3.5W 6.0	ı	.125	1.0	ı		
ACHMSC AGG.BASE CRS CL-7	ACHMBC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	09.3
DINGS	PAVEMENT SOUNDINGS				LOC.	STA.#
) }	

				ICEB BEELISAL	W=MIII TIPLE LAYERS X=STRIPPED 7=ALIGER REFLISAL	MIII TIPI F I AYE	W=	
	1	ı	1	ı	I	I		200000000000000000000000000000000000000
\L-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	14.40
	6.0	1	2.0	.125	2.25	.125		
:L-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	14.40
	I	Ī	1	Ĭ	Ē	ţ		
<u> </u>	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	14.15
	6.0	1.0	2.0	.125	2.25	.125		
ኒ-7	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	14.15
	ı	Ę	Ī	Ĩ	1	1		
<u> </u>	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	13.9
	6.0	1.0	.50	.125	3.5W	.125		
<u> </u>	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	13.9
	I)	Ē	Ĩ	ł	I	I		
<u> </u>	AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	13.65
7.0	.75	.75	.25	2.25	.125	1		
AGG.BASE CRS C	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	05 LT	13.65
I	Ĭ	ľ	Ĭ	3	3	i		
AGG.BASE CRS C	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	16 RT	13.4
6.0	ĺ	I	I	1.125	.125	2.5		
AGG.BASE CRS C	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	05 RT	13.4
		Ī	1	1		1		
	S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	13.15
		6.0	.25	.25	2.125	.125		
	S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	13.15
		1	Ĭ	1	1	ı		
	S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	12.9
		6.0	1.0	.125	(1)	2.0		
	S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMBC	ACHMSC	05 RT	12.9
		3	1	1	1	ĺ		
	S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMBC	ACHMSC	16 RT	12.25
		6.0	•		1.5	5.0W		
	S CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMBC	ACHMSC	05 RT	12.25
					I	1		
				-7	AGG.BASE CRS CL-7	ACHMSC	16 RT	11.8
					6.0	4.0W		
				.7	AGG.BASE CRS CL-7	ACHMSC	05 RT	11.8
					I	Ī		
				-7	AGG.BASE CRS CL-7	ACHMSC	16 LT	11.55

PAVEMENT SOUNDINGS

Wadwarden Tauran 21 2010	Wadwarden		=AUGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	MULTIPLE LAYE		comments:
6.0	.75	.75	.25	3.25	.125		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	17.15
	I	ı	ı	I	1		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	16.9
	6.0	E	I	5.0	.125		
CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	16.9
	1		Ĭ	I	1		
CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	16.65
	6.0	.75	.25	2.0	.125		
CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	16.65
			1	11	1		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 RT	16.4
		29	6.0	4.5W	.125		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	05 RT	16.4
			I	i	1		
			AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	16 LT	16.15
6.0	1.0	.75	.25	7.0	.125		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	16.15
1	I	Ĭ		I	1		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	15.9
5.0	1.5	1	.25	2.25	.125		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	15.9
		I	1	1	ı		
CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	15.65
	6.0	1.0	.25	2.25	.125		
CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	15.65
	1	1	1	ı	ĺ		
CL-7	AGG.BASE CRS CL-7	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	15.4
8.0	.75	1.0	.25	2.25	.125		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	15.4
1	Ĩ		1	Î	Ī		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 LT	15.15
8.0	.75	.75	.25	2.0	.125		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 LT	15.15
I	Ĭ	1	I	1	I		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	16 RT	14.9
8.0	.75	.75	.25	2.0	.125		
AGG.BASE CRS CL-7	ACHMBC	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	05 RT	14.9
	DUNDINGS	PAPEMENI SOUNDINGS					
	OTTAIN TAICE	DATE OF THE PARTY OF				707	STA#

STA.# LOC.	Ċ				PAVEMENT SOUN	OUNDINGS	
17.15 16	Ţ	16 LT CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		1	1	I	I	ľ	li di
17.4 05	05 RT	ACHMSC	AGG.BASE CRS CL-7)L-7			
		3.5W	6.0				

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

- 01/31/18 DATE SEQUENCE NO. - 1 JOB NUMBER - 061561 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 - 62 SUPPLIER NAME - STATE DISTRICT NO. - 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS - SALINE, COUNTY LOCATION DATE SAMPLED - 12/13/17 SAMPLED BY - FRAZIER/BATES DATE RECEIVED = 12/21/17 SAMPLE FROM - TEST HOLE DATE TESTED = 01/29/18 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS LAB NUMBER 20173716 - 20173717 20173718 S798 SAMPLE ID - S797 - S799 TEST STATUS - INFORMATION ONLY - INFORMATION ONLY - INFORMATION ONLY 0.05 0.30 STATION - 0.05 - 05 RT - 0-5 16 RT 0-3Z LOCATION - 05 LT DEPTH IN FEET 0-5 BROWN - BROWN BR/RD MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC = 34 36 54.70 = 34 36 54.70 = 34 37 7.60 LONGITUDE DEG-MIN-SEC - 92 46 9.20 92 46 9.10 92 46 6.70 2 % PASSING IN. -1 1/2 IN. -3/4 IN. = 100 100 100 3/8 IN. 95 NO. 4 - 89 99 98 93 92 NO. 10 = 81 86 - 76 - 65 NO. 40 - 70 77 73 NO. 80 - 64 NO. 200 - 59 54 69 LIOUID LIMIT - 25 **21** 35 PLASTICITY INDEX AASHTO SOIL = 01 - 06 16 A-4(0) = A-4(0) A-6(9) UNIFIED SOIL % MOISTURE CONTENT - 18.5 4.0 20.2 (IN) -CHIP SEAL .125 ---.125 (IN) -ACHMSC 3.75W 6.5W AGG.BASE CRS CL-7 (IN) 4.0 5.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/31/18 JOB NUMBER - 061561 FEDERAL AID NO TO BE AS PURPOSE - SOIL SUS SPEC. REMARKS - NO SPECS SUPPLIER NAME - STATE NAME OF PROJECT - HWY. SE PROJECT ENGINEER - NOT AS PIT/QUARRY - ARKANSAS LOCATION - SALINE, COS SAMPLED BY - FRAZIER/BA SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SU	SSIGNED RVEY SAMPLE IFICATION CHECK 5 - PERRY CO. LINE (S PPLICABLE OUNTY TES	MATER SPEC. SUPPL COUNT DISTR SAFETY IMPVTS.)(S) DATE DATE DATE DATE	NCE NO 2 IAL CODE - SSRVPS YEAR - 2014 IER ID 1 Y/STATE - 62 ICT NO 06 SAMPLED - 12/13/17 RECEIVED - 12/21/17 TESTED - 01/29/18
LAB NUMBER	- 20173719	20173720	- 20173721
SAMPLE ID	- S800	- S801	- S802
TEST STATUS	- INFORMATION ONLY	= INFORMATION ONLY	- INFORMATION ONLY
STATION	- 0.30	0.55	- 0.55
LOCATION	- 16 LT	05 RT	- 16 RT
DEPTH IN FEET	- 0-3.5Z	0-5	0-5
MAT'L COLOR	- BROWN	RED	RED
MAT'L TYPE	- 34 37 7.60	24 25 10 00	-
LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC		- 34 37 19.80 92 46 1.10	
		92 46 1.10	92 46 1.00
% PASSING 2 IN.		8	-
1 1/2 IN.			-
3/4 IN.		100	- 100
·	- 100	99	98
NO. 4		98 - 97	_ 97
NO. 10 NO. 40		92	_ 96 _ 92
NO. 80	1 7	- 87	- 89
NO. 200		81	80
LIQUID LIMIT PLASTICITY INDEX	- 34 - 14	- 45 - 23	- 43 - 23
AASHTO SOIL	- A-6(7)	A-7-6(19)	A-7-6(18)
UNIFIED SOIL	- A-6(//	A-7-0(19)	A-7-6(16)
% MOISTURE CONTENT	- 12.0	15.8	15.3
CHIP SEAL (IN)	- Seperar	125	- 1222
ACHMSC (IN)	-	- 3.75W	=) (E-E-E
AGG.BASE CRS CL-7 (IN)	-	- 4.0	per se se
	-	_	
	_	-	
	-	-	(*)
	-	-	##.
	_	-	
		-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO 1 PURPOSE - SOID SPEC. REMARKS - NO 3 SUPPLIER NAME - STAN NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST 1 MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI FE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHEC PERRY CO. ICABLE TY	CK LINE (S			MATERI SPEC. SUPPLI COUNTY DISTRI (S) DATE I DATE I	IAL YEA IER I/ST ICT SAMI	EIVED =	SSRVPS 2014 1 62
LAB NUMBER	_	20173722		=:	20173723		*	2017372	4
SAMPLE ID	_				S804			S805	_
TEST STATUS	-	INFORMATIO				N ONLY			TION ONLY
STATION	-	0.80		-	0.80		02	01.05	
LOCATION		05 LT		-	16 LT		-	05 RT	
DEPTH IN FEET		0-2.5Z		-	0-5			0-5	
MAT'L COLOR	-	BROWN			BROWN		-	RD/BR	
MAT'L TYPE LATITUDE DEG-MIN-9	- -	24 27	22 20	•	34 25	20 10	-	24 2	7 40.50
LONGITUDE DEG-MIN-					34 37 92 46				6 1.70
		JZ 40	1.50		J2 40	2.10		J2 4	0 1.70
% PASSING 2				20			-		
	IN	100		=:	100		_	100	
	IN IN			=	100 99			100 99	
	4 -			-	88		-	95	
	10 -			=	80		_	91	
	40 -			-	72		-	85	
	80 -			2	68		_	82	
	200 -				62			78	
LIQUID LIMIT	_	36			ND		172.5	36	
PLASTICITY INDEX	_			_	NP		. =	16	
AASHTO SOIL	_			-	A-4(0)		-	A-6(12)
UNIFIED SOIL	_	11 0 (20)		-	12 2 (0 /		-	11 0 (12	7
% MOISTURE CONTENT	_	21.2			12.2		-	20.1	_
ACHMSC	(IN) -	1.125		25	rational .		20		
CHIP SEAL	(IN) -	.125		·=·			97	.125	
ACHMSC	(IN) -	1.75		-			(77.0)	3.75	
CHIP SEAL	(IN) -	.125		-			-		
ACHMSC	(IN) _	3.5W		-			34 00		
AGG.BASE CRS CL-7	(IN) _	5.0		-			-	4.0	
	~ CO.			-			-		
	-			-			=		
	-			:=::			:= 0		

REMARKS W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION C PERRY C ICABLE TY	HECK O. LINE (SA		MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT .)(S) DATE SAN DATE REC DATE TES	NO 4 CODE - SSRVPS AR - 2014 ID 1 TATE - 62 NO 06 MPLED - 12/13/17 CEIVED - 12/21/17 STED - 01/29/18
MATERIAL DESC SOI	L SUKVE	1 - K V	ALUE- PAVEM	IEMI POONDIN	GDI	
	- - SEC -	01.05 16 RT 0-5 RD/BR 34 3' 92 4	FION ONLY - 	01.3 05 LT 0-2Z RD/BR 34 37	ON ONLY -	20173727 \$808 INFORMATION ONLY 01.30 16 LT 0-5 RD/BR 34 37 57.80 92 45 58.70
		99	-	97		92
NO.	4 -	95	=======================================	92	2 =	82
NO .	10 -	89	_	83		75
NO .	40 -		-	72	5-	63
	80 -		=	65		57
NO.	200 -	76		57		49
LIQUID LIMIT	-	ND	-	26	22	28
PLASTICITY INDEX	-	NP	-	10	-	11
AASHTO SOIL	-	A-4(0)	_	A-4(3)	-	A-6(2)
UNIFIED SOIL	-		_		120 120	
% MOISTURE CONTENT	-	12.8		14.4		9.1
CHIP SEAL	(IN) -		-	.125	-	w m m
ACHMSC	(IN) -		-	5.0W	-	
AGG.BASE CRS CL-7	(IN) _		_	5.0		
	(4		-	-	-	•
	28		-	-	-	•
	0 .5		-	-	-	•
	15 1≅		-	-		
	7 -		l-	_	-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO 10 PURPOSE - SOID SPEC. REMARKS - NO 3 SUPPLIER NAME - STAM NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST 1 MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI FE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHECK PERRY CO. LII ICABLE TY	NE (SAFETY IN	MATERIAL SPEC. YEZ SUPPLIER COUNTY/S: DISTRICT APVTS.)(S) DATE SAM DATE REC DATE TES	NO 5 CODE - SSRVPS AR - 2014 ID 1 FATE - 62 NO 06 PLED - 12/13/17 EIVED - 12/21/17 TED - 01/29/18
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-S LONGITUDE DEG-MIN-S	- - - - - - - - -	20173728 S809 INFORMATION 0 01.5 05 RT 0-5 RD/BR	- 20173 - S810 ONLY - INFOF - 01.5 - 16 R7 - 0-5 - BROWN	RMATION ONLY -	20173730 S811 INFORMATION ONLY 01.75 05 LT 0-5 RD/BR 34 38 19.90 92 46 8.90
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	IN IN IN IN 4 -	100 97 92 85 80	- - - 100 - 95 - 91 - 85 - 80 70		100 99 93 82 67 59
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT CHIP SEAL ACHMSC AGG.BASE CRS CL-7		20	- 30 - 11 - A-6 - 1:	(6)	19 04 A-4(0) 7.7 .250 3.25W 5.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HT PROJECT ENGINEER - NO PIT/QUARRY - ARKANS	561 BE ASSIGN SPECIFICA TE WY. 5 - 1 OT APPLICA SAS E, COUNTY R/BATES HOLE	SAMPLE ATION CHECK PERRY CO. LINE CABLE	(SAF	ETY IMPVTS.	MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC) (S) DATE SA DATE RE DATE TE	STATE - 62 F NO 06 MPLED - 12/13/17 CEIVED - 12/21/17
LAB NUMBER		20173731		20173732		20173733
SAMPLE ID		3812		S813		S814
TEST STATUS		INFORMATION ON	Τ'Χ ⊆	02.0		- INFORMATION ONLY - 02.0
STATION LOCATION		16 LT	-	02.0 05 RT	9	16 RT
DEPTH IN FEET)-2.5Z	-	0-5	2	0-5
MAT'L COLOR		RD/BR	2V	RD/BR		BR/RD
MAT'L COLOR MAT'L TYPE	-	(D) D10		,	24	
LATITUDE DEG-MIN-S	SEC -	34 38 19.90) =	34 38 3	31.40	34 38 31.30
LONGITUDE DEG-MIN-	SEC -	92 46 9.10)	92 46 1	L6.60	92 46 16.50
% PASSING 2	IN					
	IN				3	: -
•	IN	100	<u>~</u>		9	100
·		98	-	100	:	99
NO.	4 -	90	₹ ₩	99	A) Se	97
NO.	10 -	82		98		95
NO.	40 -	68	*	93	9	91
NO.		62	=	90	9	- 88
NO. 3	200 -	54		85		82
LIQUID LIMIT	_	22	40	49		41
PLASTICITY INDEX	_	07	=0	22		- 19
AASHTO SOIL	-	A-4(1)	-	A-7-6(21)		A-7-6(16)
UNIFIED SOIL	-		表() (2))			-
% MOISTURE CONTENT	-	6.6	-	24.7		17.6
CHIP SEAL	(IN) -		=	.125		- 122
ACHMSC	(IN) -		:::	3.125W		= = =
AGG.BASE CRS CL-7	(IN) -		. = :	4.0		
	15 12		:50. (2)			₹ 2
	28		-			
	1500					-
			=			<u></u> %
	() <u>22</u> 10-cs					

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSIC L SURVEY SPECIFIC TE WY. 5 - TOT APPLE TSAS TE, COUNT TR/BATES HOLE	Y SAMPLE CATION CHI PERRY CO ICABLE	ECK . LINE (S				MATER: SPEC. SUPPL: COUNT DISTR: .)(S) DATE DATE DATE	IAL YEA IER Y/ST ICT SAMI	EIVED	SS 20 1 62 62 06 62 64 62 64 62 64 62 64 62 64 62 64 64 64 64 64 64 64 64 64 64 64 64 64	14
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- - - - - - - -	03.0 05 RT 0-5 BR/GR	ION ONLY	- Si - II - 0 - 1 - 0 - Bi -	NFORM 3.0 6 RT -5 R/GR	ATI 39	ON ONLY		03.25 05 LT 0-5 BR/GR	MATI	28.70 46.40
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.		3 100 98 89 78 75 74		# # 5	100 96 88 76 71 64				100 96 88 75 68 61		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC CHIP SEAL ACHMSC AGG.BASE CRS CL-7	(IN) - (IN) - (IN) - (IN) -	13		2	38 18 A-6(9 14.				42 20 A-7- 18 1.0 .12 6.5	.6) !5))

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO : PURPOSE - SOI: SPEC. REMARKS - NO : SUPPLIER NAME - STA' NAME OF PROJECT - H PROJECT ENGINEER - N' PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES	Y SAMPLE CATION CHEC PERRY CO. ICABLE TY	CK	ETY IMPVTS	MATERI SPEC. SUPPLI COUNTY DISTRI .)(S) DATE S DATE R	YEAR ER ID. /STATE CT NO. SAMPLED RECEIVED	- SSRVPS - 2014 - 1 - 62
MATERIAL DESC SOI		Y - R VAL	UE- PAVEME	NT SOUNDING			
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	-	03.25	<u> </u>	20173744 S825 INFORMATIO 03.5 05 RT 0-5 BR/GR	ON ONLY	- 2017 - S826 - INFC - 03.5 - 16 R - 0-5 - BROW	RMATION ONLY
LATITUDE DEG-MIN-	SEC -	34 39	28.50	34 39	41.60	34	39 41.50
LONGITUDE DEG-MIN-				92 46	43.70	92	46 43.70
3/4 3/8 NO. NO. NO.	IN 4 - 10 - 40 -			100 99 89 79 66 60 54		- 100 - 93 - 91 - 81 - 70 - 57 - 52 46	
LIQUID LIMIT	-		<i>5</i> 2	31		- 34	
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	-) -	A-0(4)		- 13 - A-6	5(3)
% MOISTURE CONTENT	-	11.1	₹ 8	18.9		. 1	.4.5
CHIP SEAL ACHMSC ACHMBC AGG.BASE CRS CL-7	(IN) - (IN) - (IN) - - -			.125 4.0W 1.5 4.0			

REMARKS + W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

	DOIL !	301(111	/ 1710 1111111	50	ONDING IDD.	I KLIOK	_		
DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO F PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKANS	WY. 5 - OT APPL	PERRY	E CHECK CO. LINE (SAF	ETY IMPVTS	SEQUEN MATERI SPEC. SUPPLI COUNTY DISTRI	ICE (AL YEA (ER (/ST	NO 1 CODE - S R - 2 ID 1 ATE - 6 NO 0	2 SRVPS 014 2
LOCATION - SALINI						DATE S	IMAS	PLED - 1	2/13/17
SAMPLED BY - FRAZIE	R/BATES					DATE I	RECE	EIVED - 1	2/21/17
SAMPLE FROM - TEST I	HOLE					DATE :	res:	TED - 0	1/29/18
MATERIAL DESC SOI	L SURVE	Y - R	VALUE- PAV	EME	NT SOUNDIN	GS			
LAB NUMBER	Ne.	201737	49	_	20173750			20173751	
SAMPLE ID		S830	10					S832	
TEST STATUS			ATION ONLY			YINO NC			TON ONLY
	H			-	04.2			04.2	
LOCATION		16 LT		-	05 RT			16 RT	
DEPTH IN FEET				-	0-3.5Z			0-3Z	
MAT'L COLOR				-	RD/BR		100	RD/BR	
MAT'L TYPE		/		_	,		102	,	
LATITUDE DEG-MIN-S	SEC -	34	40 .60	_	34 40	13.20	-	34 40	13.30
LONGITUDE DEG-MIN-S									
1 1/2 3/4 3/8 NO. NO. NO. NO. NO. LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	4 - 10 - 40 - 80 - 200 -	98 95 86 74 68 62 40						100 96 90 81 67 61 55 26 08 A-4(2) 8.7	
	(IN) -			-			-	===	
	(IN) -	100,000		-	4.0W		-		
AGG.BASE CRS CL-7	(IN) _				4 , 0		=		
	200			_			-		
	195			-			*		
	7.=						200		
	-			•					
	_			_			-		
				-					

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHI PERRY CO ICABLE TY	ECK . LINE (SAF		MATERIA SPEC. SUPPLIA COUNTY DISTRIA .)(S) DATE S DATE R DATE T	AL C YEAR ER I /STA CT N AMPI ECEJ	CVED - 1	SSRVPS 2014 L 52
	TANG U.	II - K VA	LUE- PAVEME	THI BOOMDIN				
LAB NUMBER	_	20173752		20173753			20173754	l
SAMPLE ID	_	S833	-	S834		-	S835	
TEST STATUS	_		ION ONLY -	INFORMATIO				rion only
STATION	-	04.45	-	04.45			04.8	
LOCATION		05 LT	-	16 LT			05 RT	
DEPTH IN FEET		0-3Z	_	0-3Z		-	0-3Z	
MAT'L COLOR	-	RD/BR	_	RD/BR		_ I	BR/GR	
MAT'L TYPE	-		-					
LATITUDE DEG-MIN-				34 40		-		43.90
LONGITUDE DEG-MIN-	SEC -	92 46	53.10	92 46	53.30		92 46	5 52.90
% PASSING 2	IN		-			-		
1 1/2	IN		-			-		
	IN	100	=	100				
	IN		=	98		-	100	
NO.	4 -	93	=	91		-	96	
NO.	10 -	81		81		-	80	
NO.	40 -	66		65		-	55	
NO.	80 -	58	Ψ.	58		-	45	
NO.	200 -	54		53			39	
LIQUID LIMIT	_	30		27		_	27	
PLASTICITY INDEX	_		_	11		12	10	
AASHTO SOIL	_	A-6(4)	_	A-6(3)			A-4(1)	
UNIFIED SOIL	_	N 0(4)	_	11 0 (3)		-	A 1 (1)	
% MOISTURE CONTENT	_	10.8	-	8.5			5.0	
CHIP SEAL	(IN) -	. 25	-			-	. 25	
ACHMSC	(IN) -	2.75W	_				2.75W	
ACHMBC	(IN) -		-			= 2	2.0	
AGG.BASE CRS CL-7	(IN) -	5,0	-			-	3.0	
	-		-			-		
	-		-			-		
	-		-			-0		
	_		_			=:		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO - TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPL CATION PERRY ICABLE TY	CHECK			MATERI SPEC. SUPPLI COUNTY DISTRI () (S) DATE S DATE I DATE T	AL YEA ER /ST CT SAME	NO 14 CODE - SSR' R - 2014 ID 1 ATE - 62 NO 06 PLED - 12/2 IVED - 12/2	4 13/17 21/17
LAB NUMBER	275	201737	55	16	20173756		-	20173757	
SAMPLE ID	-	S836			S837			S838	
TEST STATUS	22		ATION ONLY			ON ONLY		INFORMATIO	N ONLY
STATION	0.77	04.8		-	05.05		(+)	05.05	
LOCATION	:25			_	05 LT			16 LT	
DEPTH IN FEET	-			=	0-5		-	0-5	
MAT'L COLOR	02	BR/GR		-	GRAY		-	BROWN	
MAT'L TYPE LATITUDE DEG-MIN-	ana	2.4	40 43 70	=	34 40	55.80	; = ;	34 40 5	E 00
LATITUDE DEG-MIN-						46.00	-	92 46 4	
		92	40 52.50		J2 40	46.00		JZ 40 4	.0.10
% PASSING 2	IN.			-					
	IN.			_	100		_		
	IN	100			100 98		-	100	
,		99		-	95		-	98	
NO.		92		-	91		+	96	
NO.				_	84		-	92	
NO.	80 =	66		_	81		=	90	
NO.	200 -	61			76			86	
LIQUID LIMIT	2 m	33			36		_	34	
PLASTICITY INDEX	:=			=	20		_	17	
AASHTO SOIL		A-6(5	5)	7	A-6(13)		-	A-6(14)	
UNIFIED SOIL	: ₩			=			-		
% MOISTURE CONTENT	=	10.	7	-	18.2		-	19.7	
ACHMSC	(IN) -			*	1.0		-		
CHIP SEAL	(IN) -			=	.125		=		
ACHMSC	(IN) -			3	4.5W		=		
ACHMBC	(IN) _			_	3.0		_		
AGG.BASE CRS CL-7	(IN) -			-	5.0		**		
				770			77		
	-			~			22		
	-			_			_		
							-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/30/18 SEQUENCE NO. - 15 JOB NUMBER - 061561 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 - 62 SUPPLIER NAME - STATE DISTRICT NO. - 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.) (S) - - 12/13/17 PROJECT ENGINER - NOT APPLICABLE DATE SAMPLED - 12/13/17 SAMPLED BY - FRAZIER/BATES DATE RECEIVED - 12/21/17 SAMPLE FROM - TEST HOLE DATE TESTED - 01/29/18								
LAB NUMBER	_	20173758	-	20173759			20173760	
SAMPLE ID	~ <u>~</u>			S840			S841	
TEST STATUS	- 2		T.V		V.TMO MC		INFORMATION ONLY	
STATION		05.3	Э	05.3			05.55	
LOCATION		05.5 05 RT	300	16 RT			05 LT	
DEPTH IN FEET		0-5	770	0-5			0-5	
MAT'L COLOR		BR/GR	20	BR/GR		022	BR/RD	
MAT'L TYPE	=		=			_		
LATITUDE DEG-MIN-S	SEC -	34 41 1.70	0 -	34 41	1.70		34 41 13.40	
LONGITUDE DEG-MIN-S	SEC =	92 46 33.00	0	92 46	33.00		92 46 28.20	
% PASSING 2	IN		≥0			_		
1 1/2	IN		-			-		
3/4	IN	100	===	100		-		
3/8	IN.	98	3)	97		-	100	
NO.	4 -	87	_	90		-	98	
	10 -		=	79		-	94	
	40 -		=	63		-	86	
	80 -	53	20			-	82	
NO. 2	200 -	48		52			77	
LIQUID LIMIT	-	32	40	33			37	
PLASTICITY INDEX	-	15	-	15			21	
AASHTO SOIL	-	A-6(4)		A-6(5)			A-6(15)	
UNIFIED SOIL	-		-			-		
% MOISTURE CONTENT	-	11.4		9.9			14.8	
ACHMSC	(IN) -	1.5	:-:			*		
CHIP SEAL	(IN) ~	.25	-			*	.125	
ACHMSC	(IN) -	1.0				7	3.0WX	
	(IN) -	.25				_		
	(IN) _	2.75W	S=3			-	the text the	
AGG.BASE CRS CL-7	(IN) -	4.0	3 			#/	6.0	
	_		-			-		
	**		323			**		
	=		i - i			-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSIG L SURVET SPECIFIC TE WY. 5 - OT APPL SAS E, COUN' R/BATES HOLE	Y SAMPLE CATION CHECK PERRY CO. LINE (ICABLE		MATERIAL SPEC. YEA SUPPLIER COUNTY/S' DISTRICT TS.)(S) DATE SAM DATE REC DATE TES	NO 16 CODE - SSRVPS AR - 2014 ID 1 TATE - 62 NO 06 PLED - 12/13/17 EIVED - 12/21/17 TED - 01/29/18
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- - - SEC -	S842 INFORMATION ONLY 05.55 16 LT 0-2Z BR/GR 34 41 13.30	- 05.8 - 05 RT - 0-5 - BROWN - 34 4	TION ONLY -	20173763 S844 INFORMATION ONLY 05.8 16 RT 0-5 BROWN 34 41 26.00 92 46 24.90
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	IN IN IN IN	100 97 83 71 57	92 4 - - - 100 - 97 - 91 - 83 - 80 77	6 24.90	100 98 87 80 70 66 63
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT CHIP SEAL ACHMSC AGG.BASE CRS CL-7	(IN) - (IN) - - - - - - -	28 10 A-4(2) 9.2	- ND - NP - A-4(0) - 17.2 - 125 - 4.25W - 6.0	- -	28 09 A-4(3) 7.8

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO - TO : PURPOSE - SOI: SPEC. REMARKS - NO SUPPLIER NAME - STA' NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHE PERRY CO ICABLE TY	ECK . LINE (SAI		MATERIA SPEC. YI SUPPLIE COUNTY/A DISTRIC .)(S) DATE SA DATE RE DATE TE	MPLED - CEIVED -	SSRVPS 2014 1 62
LAB NUMBER		20173764	=	20173765	3	201737	166
SAMPLE ID	14	S845		S846		S847	
TEST STATUS	72						MATION ONLY
STATION	2		-	06.05		06.3	
LOCATION		05 LT	7	16 LT	9	05 RT	
DEPTH IN FEET	15	0-5	3	0-5	19	0-3.52	Z
MAT'L COLOR	<u> </u>	BR/GR	_	BR/GR		BR/GR	
MAT'L TYPE	Œ.		=			±	
LATITUDE DEG-MIN-				34 41	37.70	34	41 45.90
LONGITUDE DEG-MIN-	SEC =	92 46	18.90	92 46	18.90	92	46 6.50
% PASSING 2	IN		_			_	
	IN		-			-	
	IN	100	=			-	
3/8	IN	99	=	100		100	
NO.	4 =	97	_	94		96	
NO.	10 =	93		85		87	
NO.	40 =	85	-	69		. 73	
NO.	80 =	81	-	61		- 68	
NO.	200 -	73		56		63	
LIQUID LIMIT	=	38	-	34	27	29	
PLASTICITY INDEX	-		=	12	- 3	11	
AASHTO SOIL	-	A-6(11)	Ξ	A-6(4)	8	A-6(5	5)
UNIFIED SOIL	100		~		194	•	
% MOISTURE CONTENT	(177)	27.1	*	11.0	129	11	. 1
CHIP SEAL	(IN) -	. 25				12	5
ACHMSC	(IN) -	4.5W	-			2.2	
ACHMBC	(IN) -	1.5	-			1.1	
AGG.BASE CRS CL-7	(IN)	5.0	=	222		5.0	
,	(==:/;e	0,0	-			4 0	
	(5. 125		-			= 11	
	155 2 2 2					50 21.	
	: =		=			#0	
	150		:=				

REMARKS - W-MULTIPLE LAYERS, X-STRIPPED, Z-AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0615 FEDERAL AID NO TO B PURPOSE - SOIL SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HW PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - SALINE SAMPLED BY - FRAZIER SAMPLE FROM - TEST H MATERIAL DESC SOIL	61 E ASSIC SURVE PECIFIC E T APPL AS C, COUN A/BATES OLE	Y SAMPLE CATION CH PERRY CO ICABLE TY	IECK). LINE (S			MATERI SPEC. SUPPLI COUNTY DISTRI .)(S) DATE S	IAL YEA IER 7/SI ICT SAMI	NO 18 CODE - SSRVPS AR - 2014 ID 1 TATE - 62 NO 06 PLED - 12/13/17 EIVED - 12/21/17 TED - 01/29/18
LAB NUMBER		20173767		-	20173768		-	20173769
SAMPLE ID	32	S848			S849			\$850
TEST STATUS	22					ON ONLY		INFORMATION ONLY
STATION	-		2011 01121	-	06.55	011 01121		06.55
LOCATION	-	16 RT		**	05 LT		-	16 LT
DEPTH IN FEET	10 0 0	0-5		7	0-4.5Z		1000	0-5
MAT'L COLOR	92	BR/GR		-	BR/GR		_	BR/GR
MAT'L TYPE	-			-			-	
LATITUDE DEG-MIN-S					34 41	54.60	-	34 41 54.60
LONGITUDE DEG-MIN-S	EC -	92 46	6.70		92 45	54.90		92 45 55.10
% PASSING 2	IN			=			-	
1 1/2	IN.			**			-	
3/4	IN	100		**			S 😁 S	100
3/8	IN	97		70				97
	4 -			_	100		=	89
	10 -			=	98		-	81
	40			77	89		0.000	68
	80 -			-	82		220	61
NO. 2	00	64			76			56
LIQUID LIMIT	1000	30		-	31		-	33
PLASTICITY INDEX	-	12		**	13		=	11
AASHTO SOIL	32	A-6(5)			A-6(8)		-	A-6(4)
UNIFIED SOIL	~			Ĭ			-	
% MOISTURE CONTENT	1975	12.3			8.2			12.7
CHIP SEAL	(IN) -			-	.25		_	
ACHMSC	(IN) -			-	3.0WX		-	
ACHMBC	(IN) -			*	1.0		-	
AGG.BASE CRS CL-7	(IN) _			-	5.0		_	전문한 (편.중
	-			-			_	
	3=			-			-	
				-			-	
	-							
	155 124 124						-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE									
LAB NUMBER	-	20173770	_	20173771	18	20173772			
SAMPLE ID	_	S851		S852		S853			
TEST STATUS	-	INFORMATION C	NLY -	INFORMATIC	N ONLY -	INFORMATION ONLY			
STATION	-	06.8	-	06.8	-	07.05			
LOCATION	-	***	_	16 RT	;;=:	05 LT			
DEPTH IN FEET		• •	_	0-4Z	36	0-5			
MAT'L COLOR MAT'L TYPE	-	BR/GR	-	BR/GR	-	BR/GR			
LATITUDE DEG-MIN-	CEC	34 42 5.6	-	34 42	5.50	34 42 17.30			
LONGITUDE DEG-MIN-					46.50				
			-		10.50				
% PASSING 2	IN IN		<u>=</u> 11		-				
	IN		-		-				
	IN	100	₹ 8	100		100			
	4 -		20	94	-	94			
	10 -		¥0	82	-	85			
NO.		79	= =	68	-	72			
NO.	80 -	72	8	58	· ·	66			
NO.	200 -	67		50		61			
LIQUID LIMIT	_	31	4	ND	-	28			
PLASTICITY INDEX	_	11		NP	1.5	10			
AASHTO SOIL	-	A-6(5)	300	A-4(0)	-	A-4 (4)			
UNIFIED SOIL	-				_				
% MOISTURE CONTENT	-	14.1		7.8		13.6			
ACHMSC	(IN) -	1.0	348		~				
CHIP SEAL	(IN) -	.25	9 40		-	.125			
ACHMSC	(IN) -	2.5W	-			3.0W			
ACHMBC	(IN)		1994		#5 ##1	1.0			
AGG.BASE CRS CL-7	(IN)	5.0	9443		-	6.0			
			1-1		=				
	· · ·				= =				
	(2)		*		=33 #8				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/1 JOB NUMBER - 0615 FEDERAL AID NO TO E PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HV PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - SALINE SAMPLED BY - FRAZIEI SAMPLE FROM - TEST E MATERIAL DESC SOI	DATE SAMPLED - 12/13/17 DATE RECEIVED - 12/21/17 DATE TESTED -							
LAB NUMBER	3#	20173773	}	-	20173774		-	20173775
SAMPLE ID	9. 9	S854	,		\$855			S856
TEST STATUS	3.55		TION ONLY			N ONLY		INFORMATION ONLY
STATION	3 -	07.05		22	07.3			07.3
LOCATION	949	16 LT		-	05 RT		:=:	16 RT
DEPTH IN FEET	8	0-5		-	0-5		-	0-5
MAT'L COLOR	8.7	BR/GR		2	BR/GR		2	BR/GR
MAT'L TYPE	2			-			-	
LATITUDE DEG-MIN-S					34 42			34 42 28.50
LONGITUDE DEG-MIN-S	SEC =	92 45	38.00		92 45	32.50		92 45 32.40
% PASSING 2	IN.			2			•	
1 1/2	IN			$\widetilde{\mathcal{A}}$			+	
3/4	IN.	100		-			-	100
· ·		99		=			-	99
	4 -			=	100		-	97
	10 =			÷	96		-	94
	40 -			**	84			88
	80 =			~	78 72		-	85 83
NO. 2	200 =	54			12			0.3
LIQUID LIMIT	F	29		-	39			46
PLASTICITY INDEX	=	10		-	16		-	23
AASHTO SOIL	-	A-4(3)		-	A-6(11)		:: ::::	A-7-6(20)
UNIFIED SOIL	(/=			_			·	
% MOISTURE CONTENT	-	20.3			16.1			24.6
CHIP SEAL	(IN) -			-	.125		-	
ACHMSC	(IN) -			-	2.125		*	7.5
CHIP SEAL	(IN) -			~	.125		-	
ACHMSC	(IN)			_	3.0W		-	
AGG.BASE CRS CL-7	(IN)			_	6.0		-	(表)表(有)
	-			-			*	
	-			-			7	
	15			-			±0 (⊒0	
				_			_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO 1 PURPOSE - SOID SPEC. REMARKS - NO 3 SUPPLIER NAME - STAN NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST 1 MATERIAL DESC SOI	561 BE ASSIC SPECIFIC FE WY. 5 - OT APPL: SAS E, COUNT R/BATES HOLE	SAMPLE CATION CHEC PERRY CO. ICABLE	K LINE (SAF		MATERIAL SPEC. YEA SUPPLIER COUNTY/SI DISTRICT)(S) DATE SAMI DATE RECH DATE TEST	NO 21 CODE - SSRVPS IR - 2014 ID 1 PATE - 62 NO 06 PLED - 12/13/17 EIVED - 12/21/17 PED - 01/29/18
LAB NUMBER	-	20173776	-	20173777	-	20173778
SAMPLE ID	-	S857	_	S858	-	S859
TEST STATUS	-	INFORMATIO	N ONLY -	INFORMATIO	N ONLY -	INFORMATION ONLY
STATION	-		_	07.55		07.8
LOCATION	-		_	16 LT		05 RT 0-5
DEPTH IN FEET		0-5 BR/GR	_	0-5 BR/GR	_	BR/GR
MAT'L COLOR MAT'L TYPE	_	DR/GR	-	DR/ GR	-	DR/ GR
LATITUDE DEG-MIN-	SEC -	34 42 4	11.00 -	34 42	10.80 -	34 42 53.30
LONGITUDE DEG-MIN-					36.80	92 45 41.50
% PASSING 2	IN		=		_	
	IN		_		_	
3/4	IN	100	=		-	100
3/8	IN.	99	5	100	_	98
	4 -		_	94	_	90
	10 -		= 1	83	-	80
	40 -		5 .	68 61	_	69 65
	80 - 200 -		-	57	-	61
LIQUID LIMIT	-	~ –	5 4 5.	33	355	36
PLASTICITY INDEX	-		===	14		18
AASHTO SOIL UNIFIED SOIL	_	A-6(5)	=	A-6(5)	944	A-6(8)
% MOISTURE CONTENT	_	11.8	26	11.9	(-	16.7
CHIP SEAL	(IN) -	.125	220		(44)	.125
ACHMSC	(IN) -	2.5	-		æ:	2.0W
CHIP SEAL	(IN) -	.25	: - 0	No. 100		
ACHMBC	(IN)				=	1.0
ACHMSC	(IN) _	2.75	·			
AGG.BASE CRS CL-7	(IN) _	6.0	-		7.	5.0
	~-		1.TA		3	
	_		=		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST	DATE SAMPLED - 12/13/17 DATE RECEIVED - 12/21/17 DATE TESTED - 01/29/18							
MATERIAL DESC SOI	L SURVE	Y - R V	ALUE- PAV	EME	INT SOUNDING	GS		
LAB NUMBER	-	20173775	9	2	20173780			20173781
SAMPLE ID	-	S860		-	S861) (*** .)	S862
TEST STATUS	-	INFORMA'	LION ONTA	77	INFORMATIO	ON ONLY	-	INFORMATION ONLY
STATION	-			=	08.05		-	08.05
LOCATION	-			_	05 LT		-	16 LT
DEPTH IN FEET	-			-	0-5			0-5
MAT'L COLOR	-	BR/GR		2	BR/GR		-	BR/GR
MAT'L TYPE	- ana	24 4		2	24 42	c 20	-	34 43 6.10
LATITUDE DEG-MIN- LONGITUDE DEG-MIN-				-	34 43 92 45	6.20 42.20	-	92 45 42.40
LONGITUDE DEG-MIN-	SEC -	32 4:	3 41.40		92 45	42.20		92 45 42.40
% PASSING 2	IN			77			1	
·	IN			=				
	IN			_			_	100
	IN	100		-	100		***	99
		98 92		2	95 87		-	95 89
NO.		92 80			74		-	79
NO.		76		-	68		-	75
NO.					63		-	71
	200	, -						
LIQUID LIMIT	-	31		-	34		-	44
PLASTICITY INDEX	-	13		-	12		_	21
AASHTO SOIL	_	A-6(7)		_	A-6(6)		-	A-7-6(14)
UNIFIED SOIL	_	11 2		-	14 6		4	10.0
% MOISTURE CONTENT	-	11.3			14.6			19.2
CHIP SEAL	(IN) -			-	.125		-	
ACHMSC	(IN) -			~	1.75		-	
CHIP SEAL	(IN) -			-	.25			5 5000
ACHMSC	(IN)			-	4.0W		===	
AGG.BASE CRS CL-7	(IN)			7	5.0		=	
	166			-			**	
				-			+	
				-			-	
				3			(50)	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE										
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- S - I - 0 - 0 - 0 - B -	8863 INFORMATION ONLY 8.3 5 RT -5 R/GR		08.3 16 RT 0-5 BR/GR	N ONLY	-	08.55 05 LT 0-5 BR/GR	IATI	ON ONLY 32.10 42.90	
3/4 3/8 NO. NO. NO.	IN IN IN IN 4 - 10 - 40 - 80 - 200 -	99 95 84 79	-	100 99 96 88 84			100 95 86 73 68 64			
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT CHIP SEAL ACHMSC CHIP SEAL ACHMSC AGG.BASE CRS CL-7	-	38 15 A-6(11) 18.4 .125 7.0W 5.0		47 22 A-7-6(19) 23.1			34 13 A-6(6 18 .75 .12 3.5 4.0	.6 5 W		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 01/:	20/10		, 2111211211			GROVIEN	.an	200	4
JOB NUMBER ~ 061		SEQUENCE NO 24							
JOB NUMBER - 061561 MATERIAL CODE - SSRVPS									
FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. YEAR - 2014 SUPPLIER ID 1 SPEC. PERMAPKS NO SPECIFICATION CHECK									
PURPOSE - SOII	L SURVE	Y SAMPL	E					ID 1	
SPEC. REMARKS - NO	PECTET	CATION	CHECK			COUNTY	ra\	TATE - 6	2
SUPPLIER NAME - STA							CT	NO 0	6
NAME OF PROJECT - H	WY. 5 -	PERRY	CO. LINE (SAF	ETY IMPVTS.	.)(S)			
PROJECT ENGINEER - N	OT APPL	ICABLE							
PIT/QUARRY - ARKAN	SAS								
LOCATION - SALIN	E, COUN	TY				DATE S	[MA	PLED - 1	2/13/17
SAMPLED BY - FRAZIE	R/BATES					DATE F	RECI	EIVED - 1	2/21/17
SAMPLE FROM - TEST	HOLE							TED - 0	
MATERIAL DESC SOI		Y - R	VALUE - PAV	EME	NT SOUNDING				, - ,
LAB NUMBER							_	00173707	
SAMPLE ID		201/3/8 S866	85		S867			20173787 S868	
TEST STATUS	_		7 MT ()1 ()11 17			NI ONT 11			TON ONEN
	_	INFORM	ATION ONLY	20	INFORMATIO	ON ONLY			TON ONLY
STATION				_	08.8		_	08.8	
LOCATION DEPTH IN FEET	-	16 LT			05 RT		_	16 RT	
				270	0-5		_	0-5	
MAT'L COLOR	-	BR/GR		-20	BR/RD		_	BR/RD	
MAT'L TYPE	-			=			_		
LATITUDE DEG-MIN-S					34 43			34 43	44.40
LONGITUDE DEG-MIN-	SEC -	92 4	45 43.00		92 45	47.70		92 45	47.60
% PASSING 2	IN			_			150		
1 1/2	IN			_			1		
3/4	IN -	100		-			-	100	
· · · · · · · · · · · · · · · · · · ·		98		-	100			98	
		85		-	98		$(\overline{x},\overline{y},\overline{y})$	93	
				-	94		_	87	
NO.	10 - 40 -	59		_	89		-	76	
				-	88		*	73	
	80 - 200 -			_	84		-	73 69	
110.	200 -	50			04			63	
LIQUID LIMIT	_	33		=	33		-	33	
PLASTICITY INDEX	-	12		-	16		$(-1)^{n+1}$	16	
AASHTO SOIL	-	A-6(3)	*	A-6(12)		=	A-6(9)	
UNIFIED SOIL	-			= 3			-		
% MOISTURE CONTENT	-	19.	7	-	29.9		-	13.7	
ACHMSC	(IN) -			_	1.25		20		
CHIP SEAL	(IN) -			-	.50		=		
ACHMSC	(IN) -			-	3.0		\rightarrow		
ACHMBC	(IN) -			-	1.25		= 1	***	
AGG.BASE CRS CL-7	(IN)			7	5.0		=0,		
·	. , _				-		20		
	-			_			*		
	_						3 1		
	_			-			-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/30/18 SEQUENCE NO 25 JOB NUMBER - 061561 MATERIAL CODE - 25 FEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2014 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 62 SUPPLIER NAME - STATE DISTRICT NO 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.) (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - SALINE, COUNTY DATE SAMPLED - 12/13/17 SAMPLED BY - FRAZIER/BATES DATE RECEIVED - 12/21/17											
SAMPLE FROM - TEST HOLE DATE TESTED - 01/29/1											
MATERIAL DESC SOI	L SURVE	Y - R VA	LUE- PAVE	MEI	NT SOUNDIN	GS					
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	- - -	20173788 S869 INFORMATI 09.05 05 LT 0-5			20173789 S870 INFORMATIO 09.05 16 LT 0-3Z	ON ONLY	•	20173790 S871 INFORMATION ONLY 09.3 05 RT 0-5			
MAT'L COLOR	-	BR/GR		-	BR/GR		-	BR/GR			
MAT'L TYPE LATITUDE DEG-MIN-, LONGITUDE DEG-MIN-					34 43 92 45	57.40 47.90		34 44 10.60 92 45 45.70			
% PASSING 2				3 0			-				
	IN -			= 7							
	IN, -			20) 20)	100		- 2				
·	IN			= 0	97		-	100			
	4 -			-	90		-	96			
	10 -			, 70	78			87			
	40 -			-	63		-	74			
	80 -			-	58		**	70			
NO.	200 -	56			54			66			
LIQUID LIMIT	-	26		-	27		-	45			
PLASTICITY INDEX	-	09		-	09		-	22			
AASHTO SOIL	-	A-4(2)		(E)	A-4(2)		_	A-7-5(14)			
UNIFIED SOIL	-			_			_				
% MOISTURE CONTENT	-	7.3			9.2			13.5			
CHIP SEAL	(IN) -	.125		-							
ACHMSC	(IN) -	1.0W		-				1.0			
CHIP SEAL	(IN) -			=			-	.125			
ACHMBC	(IN) _	1.5		_							
ACHMSC	(IN) _			_			-	3.5W			
AGG.BASE CRS CL-7	(IN) _	4.0		-			70	6.0			
	7			-			200				
	-			-			~				
	=			-			*				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE								
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- (- (- (- (- 1	09.3 16 RT 0-5 BROWN	- 09.55 - 05 LT - 0-5 - BR/GR	TION ONLY	20173793 S874 INFORMATION ONLY 09.55 16 LT 0-5 BR/GR			
,	SEC - SEC - IN IN	34 44 10.4 92 45 45.8	0 - 34 4 0 92 4 	4 22.60 - 5 40.90 - -	34 44 22.60 92 45 40.90			
3/8 NO. NO. NO.	IN 4 - 10 - 40 - 80 - 200 -	90 83 73 60 56	- 100 - 98 - 90 - 70 - 63 - 58	- - - - -	98 89 74 54 46 42			
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -	35 15 A-6(5)	- 31 - 09 - A-4(3) -	(#) (#)	28 08 A-4(0) 5.0			
ACHMSC CHIP SEAL ACHMSC AGG.BASE CRS CL-7	(IN) - (IN) - (IN) - - - - -		75 125 - 3.25W - 6.0					

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/30/18 SEQUENCE NO 27 JOB NUMBER - 061561 MATERIAL CODE - 5 SSRVPS FEDERAL AID NO 70 TO BE ASSIGNED SPEC. YEAR - 6 2014 PURPOSE - 8 - SOIL SURVEY SAMPLE SUPPLIER ID 6 1 SPEC. REMARKS - 7 NO SPECIFICATION CHECK COUNTY/STATE - 6 62 SUPPLIER NAME - 8 - NOT APPLICABLE DISTRICT NO 7 06 PROJECT ENGINEER - NOT APPLICABLE NOT APPLICABLE DATE SAMPLED - 7 12/13/2 LOCATION - SALINE, COUNTY - SAMPLED BY - FRAZIER/BATES - DATE RECEIVED - 7 12/21/3 SAMPLE FROM - TEST HOLE DATE TESTED - 7 01/29/2 MATERIAL DESC 8 SOIL SURVEY - R VALUE - PAVEMENT SOUNDINGS - 01/29/2										RVPS 14 /13/17 /21/17
LAB NUMBER	_	201737	94	_	20173795		-	201737	96	
SAMPLE ID	_	S875	J4		S876			201737 S877	90	
TEST STATUS	_		ATION ONLY			ON ONLY			IATI	ON ONLY
STATION	-			-	09.8	01(01		10.05		01. 01
LOCATION	_	05 RT		-	16 RT			05 LT		
DEPTH IN FEET	_	0-5		-	0-5		*	0-5		
MAT'L COLOR	_	BR/GR		_	BR/GR		-	BROWN		
MAT'L TYPE	-			_			-			
LATITUDE DEG-MIN-					34 44	35.20		34	44	48.50
LONGITUDE DEG-MIN-	SEC -	92	45 40.30		92 45	40.20		92	45	41.30
% PASSING 2	IN			-			_			
1 1/2	IN			2			_			
3/4	IN	100		**	100		-	100		
3/8	IN -	95		-	99		-	96		
NO.	4 -	90		- 5	90		_	87		
	10 -			22	79		_	74		
	40 -			-	64		-	57		
	80 -			$\tilde{\pi}_{i}$	59		-	53		
NO.	200 -	54			55			51		
LIQUID LIMIT	-	33		-	31		2	31		
PLASTICITY INDEX	-	11		~	08		33-6	11		
AASHTO SOIL	-	A-6(4	·)	-	A-4(2)		8 	A-6(3	()	
UNIFIED SOIL	-			20			35			
% MOISTURE CONTENT	-	14.	1	20	13.4			17.	9	
ACHMSC	(IN) -	2.5		20			22	4.75	5	
CHIP SEAL	(IN) -			-			***	.25		
ACHMBC	(IN) -	1.0		-			-			
ACHMSC	(IN) -			=			20 200	3.25	5	
AGG.BASE CRS CL-7	(IN) _	5.0		-			= 1 = 2	5.0		
	_			-			=			
	-			-			=			
	-			-			7			
	_			•			-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE									
LAB NUMBER	-	20173797	7	-	20173798			20173799	
SAMPLE ID	_	S878			S879			S880	
TEST STATUS	_		TION ONLY			ON ONLY		INFORMATION ONLY	
STATION	_	10.05		=	10.3			10.3	
LOCATION	_	16 LT		*	05 RT			16 RT	
DEPTH IN FEET	_	0-5		20 30	0-5		S 18	0-5	
MAT'L COLOR	_	BR/GR		2) 20	BR/GR		2	BR/GR	
MAT'L TYPE	-			=:			33 4 5		
LATITUDE DEG-MIN-				7	34 45			34 45 1.60	
LONGITUDE DEG-MIN-	SEC -	92 45	41.40		92 45	40.50		92 45 40.50	
% PASSING 2	IN			_			923		
1 1/2	IN			-			-		
3/4	IN	100		-			-	100	
3/8	IN	99		_	100		100) 100	96	
NO.		95			94			85	
NO.		86		_	80		-	72	
	40 -	72		-	63			58	
NO.		67		-	56		-	52	
NO.	200 -	64			52			49	
LIQUID LIMIT	-	33		=;	29		-	30	
PLASTICITY INDEX	-	11		-	11		-	11	
AASHTO SOIL	_	A-6(5)		2	A-6(3)		-	A-6(2)	
UNIFIED SOIL	-			27) 20)			_		
% MOISTURE CONTENT	-	12.3			12.4			8.7	
ACHMSC	(IN) -	***		-	1.0		440		
CHIP SEAL	(IN) -			-	.125		*	and the same	
ACHMSC	(IN) -			-	3.25		20		
AGG.BASE CRS CL-7	(IN) _	***		_	6.0		20 20		
	-			-			-		
	-			-			-		
	-			-			3.1 83.2		
	_			_			-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/30/18 SEQUENCE NO. - 29 JOB NUMBER - 061561 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 - - 62 SUPPLIER NAME - STATE DISTRICT NO. - 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S) - - 1 PROJECT ENGINEER - NOT APPLICABLE - DATE SAMPLED - 12/13/15 LOCATION - SALINE, COUNTY DATE RECEIVED - 12/13/15 SAMPLE FROM - TEST HOLE DATE TESTED - 01/29/15									
LAB NUMBER	-	20173800	_	20173801	3+	20173802			
SAMPLE ID	_			S882		S883			
TEST STATUS	-	INFORMATION ON	ΓA -	INFORMATIO		INFORMATION ONLY			
STATION	_	10.55	-	10.55		10.8			
LOCATION	-	05 LT	-	16 LT	-	05 RT			
DEPTH IN FEET		0 - 5	_	0-5	_	0-5			
MAT'L COLOR	-	BROWN	_	BR/GR		BROWN			
MAT'L TYPE	-		_		=				
LATITUDE DEG-MIN-				34 45		34 45 26.00			
LONGITUDE DEG-MIN-	SEC -	92 45 48.40		92 45	48.40	92 45 51.70			
% PASSING 2	IN		77.5		3.55				
1 1/2	IN		4		72				
	IN		-		-				
·	IN		2	100		100			
	4 -		-	92	2	97			
	10 -				-	89			
	40 -		300	66		78			
	80 - 200 -		770	60 55	=	76 67			
110.	200 -	54		55		0 /			
LIQUID LIMIT	-	~ –	-	32	_	38			
	-		-	12	_	17			
AASHTO SOIL	-	A-6(4)		A-6(4)	_	A-6(10)			
UNIFIED SOIL	_		-	10 5	_				
% MOISTURE CONTENT	-	12.6		10.5		20.4			
CHIP SEAL	(IN) -	.50	-		-				
ACHMSC	(IN) -	4.5W	-			.75			
CHIP SEAL	(IN) -	7.5	-	(*)*)*	-	1.25			
ACHMSC	(IN) _		-	****	_	2.50			
AGG.BASE CRS CL-7	(IN) _	5.0	54		-	5.0			
	-		3=3		:=:				
	_		386		; -				
	_		:= :=		12				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	PERRY ICABLE TY	CO. LINE (S	SAF	ETY IMPVTS.	MATERISPEC. SUPPLICOUNTY DISTRICT (S) DATE DATE DATE	IAL YEA IER Y/ST ICT SAMI RECI	NO CODE - R - ID PATE - NO PLED - EIVED -	SS 20 1 62 06	RVPS 14 /13/17 /21/17
LAB NUMBER	-	201738	03	-	20173804			201738	05	
SAMPLE ID	-	S884		_	S885		-	S886		
TEST STATUS	=	INFORM	ATION ONLY	-	INFORMATIC	N ONLY			IATI	ON ONLY
STATION	<u> </u>			-	11.05			11.05		
LOCATION	₹.	16 RT		_	05 LT		157	16 LT		
DEPTH IN FEET	=			_	0-5		200	0-5		
MAT'L COLOR	=	BROWN		_	BR/GR		-	BR/GR		
MAT'L TYPE	-			-			(*)			
LATITUDE DEG-MIN-	SEC =	34	45 25,80	-	34 45			34		
LONGITUDE DEG-MIN-	SEC -	92	45 51,70		92 45	55.60		92	45	55.60
% PASSING 2	IN			-			_			
1 1/2	IN			-			-			
3/4	IN	100		-	100		-	100		
3/8	IN	97		-	98		-	89		
NO.	4 =	87		_	86		_	80		
NO.	10 -	73		-	72		_	68		
NO.	40 =	58		-	59		-	53		
	80 =	54		-	54		-	47		
NO.	200 -	51			50			43		
LIQUID LIMIT	=	32		+	32		1000	34		
PLASTICITY INDEX	-	12			14			15		
AASHTO SOIL	-	A-6(3	3)	==0	A-6(4)		_	A-6(3	3)	
UNIFIED SOIL	II.			20			-			
% MOISTURE CONTENT	1.5	15.	. 0	-	14.5		-	12	. 9	
ACHMSC	(IN) -			-	3.25WX		=			
	(IN) -			-	6.0		=			
	-			7	0.0		770			
	_			320			-			
	-			-			-			
	_			-			===			
	_			-			5			
	_			-			2			
	-			=			=			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 061: FEDERAL AID NO TO I PURPOSE - SOID SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - SALIND SAMPLED BY - FRAZIE SAMPLE FROM - TEST I MATERIAL DESC SOI	561 BE ASSIG SURVEY SPECIFIC TE WY. 5 - OT APPLI SAS E, COUNT R/BATES HOLE	SAMPLE PATION CHECK PERRY CO. LINE CABLE		MATERIAL SPEC. YEZ SUPPLIER COUNTY/S' DISTRICT (S.) (S) DATE SAM DATE REC DATE TES	NO 31 CODE - SSRVPS AR - 2014 ID 1 PATE - 62 NO 06 PLED - 12/13/17 EIVED - 12/21/17 TED - 01/29/18
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-S LONGITUDE DEG-MIN-S	- - - - - - SEC -	S887 INFORMATION ONI 11.3 05 RT 0-3.5Z BR/GR 34 45 50.20	- 11.3 - 16 RT - 0-5 - BR/GR - 34 45	TION ONLY -	20173808 S889 INFORMATION ONLY 11.55 05 LT 0-5 BR/RD 34 45 58.00 92 45 56.40
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	IN IN IN IN 4 - 10 - 40 - 80 -	100 98 92 78 73	- - - 100 - 99 - 96 - 90 - 77 - 70 65	5 39.90	100 99 87 75 59 54
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC	- - - - - (IN) -	31 12 A-6(6) 12.7 4.5WX	- 29 - 12 - A-6(5) - 12.1	-	35 15 A-6(4) 12.4 3.5W
	(IN) -	9.0			6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO F PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HV PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - SALING SAMPLED BY - FRAZIES SAMPLE FROM - TEST F MATERIAL DESC SOI	561 BE ASSIC SURVE SPECIFIC SE VY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHECK PERRY CO. LINE (ICABLE TY			MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC)(S) DATE SA DATE RE DATE TE	E NO S L CODE - S EAR - 2 R ID S STATE - 6 I NO 6 MPLED - S CEIVED - 6	SSRVPS 2014 1 52 06 12/13/17 12/21/17
LAB NUMBER	¥	20173809	_	20173810	- 25	2017381	1
SAMPLE ID	=			S891		S892	_
TEST STATUS	-						TION ONLY
STATION	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	11.55	-	11.8	95	11.8	
LOCATION	=======================================	16 LT	-	05 RT	(4	16 RT	
DEPTH IN FEET	~	0-5	_	0-5	10	0-5	
MAT'L COLOR	æ	BR/RD	_	BR/GR	18	BROWN	
MAT'L TYPE	=		-		- 3	2	
LATITUDE DEG-MIN-S	SEC -	34 46 2.10	-	34 46 1			5 11.40
LONGITUDE DEG-MIN-S	SEC =	92 45 54.10		92 45 4	43.30	92 4!	5 43.30
% PASSING 2	IN.				9	+:	
1 1/2	IN = =		3				
3/4	IN	100	-		3	100	
·	- 55	97	-	100		98	
	4 -		-	96		89	
	10 =		-	84	8	78	
	40 =		$(-1)^{\frac{1}{2}}$		79	62	
	80 -		==	61 58	1.0	55 52	
NO. 2	200 =	65		50		54	
LIQUID LIMIT	-	33	7.7	31		- 28	
PLASTICITY INDEX		15	250	14		- 08	
AASHTO SOIL	=	A-6(8)	_	A-6(5)		A-4(2)	
UNIFIED SOIL	77		-			_	
% MOISTURE CONTENT	12	17.3		13.1		7.5	
ACHMSC	(IN) -	one and	-	4 . OW			
AGG.BASE CRS CL-7	(IN) -		-	6.0			
	_		-			_	
	-		-			=	
	=======================================		-			-	
	=		=			2	
	-		-			= :	
	-		_			= :	
			(45)				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 061 FEDERAL AID NO TO D PURPOSE - SOID SPEC. REMARKS - NO S SUPPLIER NAME - STAN NAME OF PROJECT - HI PROJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST D MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHECK PERRY CO. LINE (ICABLE TY			DATE S DATE R	AL (YEAL) ER [/STA CT 1 AMP ECE	CODE - R - ID ATE - NO LED - IVED -	SS 20 1 62 06	/13/17 /21/17
LAB NUMBER	_	20173812	_	20173813		_	201738	1/	
SAMPLE ID	_	S893		S894			201738 S895	14	
TEST STATUS	_	INFORMATION ONLY			N ONLY			דדבו	ON ONLY
STATION	_	12.25	-	12.25			12.9		011 01121
LOCATION		05 RT	-	16 RT			05 RT		
DEPTH IN FEET		0 - 4 Z	-	0-5		_	0-2.52		
MAT'L COLOR	_	BR/RD		BR/RD		_	GR/BR		
MAT'L TYPE	_		_			_			
LATITUDE DEG-MIN-S	SEC -	34 46 29.30	_	34 46 2	29.20	-	34	47	1.60
LONGITUDE DEG-MIN-	SEC -	92 45 28.60		92 45	28.60		92	45	36.80
% PASSING 2	IN		_			22			
	IN		-			150 150			
-	IN	100		100		-			
•	IN		*	98			100		
NO.	4 -	96	**	93		-	88		
NO.	10 -	92	-	88		_	77		
NO.	40 -	82		80		-	61		
NO.	80 -	74	-	72		- 5	54		
NO.	200 -	66		63			46		
LIQUID LIMIT		29		38		-	34		
	<u>~</u>	11	-	16		70	14		
AASHTO SOIL	2	A-6(5)	-	A-6(8)		77	A-6(3	3)	
UNIFIED SOIL	=======================================		-			-			
% MOISTURE CONTENT	l#	16.5	-	16.4		-	8.	5	
ACHMSC	(IN) -	5.0W	_			2	2.0		
ACHMBC	(IN) -	1.5	-			-			
CHIP SEAL	(IN) -		-			-	.12	5	
ACHMSC	(IN) -	Service:	-			-	1.0		
AGG.BASE CRS CL-7	(IN) _	6.0				-	6.0		
	-		_			-			
	-		-			-			
			-						
	=		-			-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/2 JOB NUMBER - 061 FEDERAL AID NO TO : PURPOSE - SOI: SPEC. REMARKS - NO : SUPPLIER NAME - STA' NAME OF PROJECT - H' PROJECT ENGINEER - N' PIT/QUARRY - ARKAN LOCATION - SALIN: SAMPLED BY - FRAZIE SAMPLE FROM - TEST : MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI IE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CH PERRY CC ICABLE TY	ECK	9	MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT () (S) DATE SAM DATE REC DATE TES	NO 34 CODE - SSRVPS AR - 2014 ID 1 TATE - 62 NO 06 MPLED - 12/13/17 EIVED - 12/21/17 STED - 01/29/18
LAB NUMBER	_			20173816		00173017
	_			20173816 S897		20173817
SAMPLE ID TEST STATUS	_	S896				S898
STATION	_	10.9	TON ONLY	13.15		INFORMATION ONLY 13.15
LOCATION	_	16 RT	2	05 LT	-	16 LT
DEPTH IN FEET		0-1.5Z	=	0-2Z	200	0-3Z
MAT'L COLOR		RD/BR	5. 2.	DD /DD	-	RD/BR
MAT'L TYPE	_	ItD/ DIC	21	10, 21	1	110 / 011
LATITUDE DEG-MIN-	SEC -	34 47	1.30 -	34 47	14.30	34 47 14.10
LONGITUDE DEG-MIN-						92 45 39.80
% PASSING 2	IN		-		-	
	IN		-	100	-	
•	IN: -		-	100	_	100
	IN	91	=	91 76	_	91
	4 -		2	C 1	-	80
	10 -		#	51	-	67 58
			-	47	-	
	80 - 200 -		=	37	-	51 40
NO.	200 -	3 /		3 /		40
LIQUID LIMIT	-	ND	-	26	24	ND
PLASTICITY INDEX	_		-	08	-	NP
AASHTO SOIL	-	A-4(0)	-	A-4(0)	S 	A-4(0)
UNIFIED SOIL	-		-			
% MOISTURE CONTENT	-	7.5	_	17.8		9.6
CHIP SEAL	(IN) -		_	.125	2	
ACHMSC	(IN) -		-	2.125	2	
CHIP SEAL	(IN) -		-	.25	=	
ACHMSC	(IN) -		-	.25	-	(#.#.#)
AGG.BASE CRS CL-7	(IN) _		-	6.0	=	
	72		_		<u> </u>	
	:		_		_	
	S 		_		-	
	0.77		-		=	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO 1 PURPOSE - SOID SPEC. REMARKS - NO 3 SUPPLIER NAME - STAM NAME OF PROJECT - HI PROJECT ENGINEER - NO PIT/QUARRY - ARKAN	561 BE ASSI L SURVE SPECIFI FE WY. 5 - OT APPL	Y SAMPLE CATION C PERRY C	HECK	SAF	ETY IMPVTS	MATERI SPEC. SUPPLI COUNTY DISTRI	AL YEA ER /ST	NO 35 CODE - SSRVPS AR - 2014 ID 1 PATE - 62 NO 06
LOCATION - SALINI SAMPLED BY - FRAZIE SAMPLE FROM - TEST 1	R/BATES					DATE R	RECE	PLED - 12/13/17 EIVED - 12/21/17 FED - 01/29/18
MATERIAL DESC SOI	L SURVE	Y - R V	ALUE- PAV	EME	NT SOUNDIN	GS		
LAB NUMBER SAMPLE ID TEST STATUS	- -	2017381 S899 INFORMA	•	50	20173819 S900 INFORMATIO		1	20173820 S901 INFORMATION ONLY
STATION LOCATION DEPTH IN FEET	- -	13.4 05 RT 0-5		**	13.4 16 RT 0-5			13.65 05 LT 0-5
MAT'L COLOR MAT'L TYPE	-	GRAY		=	GRAY		-	BR/GR
LATITUDE DEG-MIN-: LONGITUDE DEG-MIN-:	SEC - SEC -	34 4 92 4	7 25.40 5 46.50	5 0	34 47 92 45	25.30 46.30	: =	34 47 33.50 92 45 59.50
% PASSING 2	IN IN			<u>a</u>			12	
3/4	IN			*	100		O.B.	100
	IN 4 -			5 E	98		075 022	99
	10 -			-	89 82		-	92 82
NO.	40 -	69		-	71		_	75
NO.	80 -	63		2	65		-	72
NO.	200 -	56			60			68
LIQUID LIMIT	-	36		3	39		-	44
PLASTICITY INDEX	-	17		~	10			19
AASHTO SOIL	_	A-6(7)		= 1	A-6(8)		5.≅ 2.20	A-7-6(12)
UNIFIED SOIL % MOISTURE CONTENT	_	11.4		=	17.3		2	24.1
ACHMSC	(IN) -	2.5		-			-	
CHIP SEAL	(IN) -	.125		-			-	.125
ACHMSC	(IN) -	1.125		-	-		-	2.25
CHIP SEAL	(IN)	-					_	. 25
ACHMSC	(IN)			_			40	.75
ACHMBC AGG.BASE CRS CL-7	(IN) _	6.0		-			*	.75 7.0
AGG.DASE CK5 CL-/	(TM) -	0.0					20	7.0
	:			===			2	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/2 JOB NUMBER - 061 FEDERAL AID NO TO 2 PURPOSE - SOI SPEC. REMARKS - NO 3 SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES	Y SAMPLE CATION CH PERRY CC ICABLE TY	IECK	SAF	ETY IMPVTS.	MATERI SPEC. SUPPLI COUNTY DISTRI)(S) DATE S	AL YEA ER /ST CT	NO 30 CODE - SS R - 20 ID 1 ATE - 63 NO 00	SRVPS 014 2 5 2/13/17 2/21/17
SAMPLE FROM - TEST : MATERIAL DESC SOI		Y - R V	ALUE- PAV	EME	NT SOUNDING	DATE 1 GS	EST	ED - 0	1/29/18
LAB NUMBER SAMPLE ID TEST STATUS STATION	- - -			-	20173822 S903 INFORMATIC		7	20173823 S904 INFORMAT	ION ONLY
LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- - -	0-5			05 RT 0-4.5Z GR/BR			16 RT 0-4Z GR/BR	
LATITUDE DEG-MIN-: LONGITUDE DEG-MIN-:					34 47 4 92 46	41.70 10.90	95	34 47 92 46	41.60 10.80
3/4 3/8 NO. NO. NO.	IN IN IN 10 4 - 10 - 40 - 80 - 200 -	87 79 70 62 58			100 97 90 72 62 55			100 98 93 84 68 58	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -				26 08 A-4(2)		-	27 08 A-4(1) 7.5	
CHIP SEAL ACHMSC CHIP SEAL ACHMSC ACHMSC ACHMBC AGG.BASE CRS CL-7	(IN) - (IN) - (IN) - (IN) - (IN) - -				.125 3.5W .125 .50 1.0				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0619 FEDERAL AID NO TO B PURPOSE - SOID SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - SALIND SAMPLED BY - FRAZIE SAMPLE FROM - TEST D MATERIAL DESC SOI	561 BE ASSION SPECIFION SPECIFION SPECIFION SPECIFION SASE, COUNTR/BATESHOLE	Y SAMPLE CATION CHECK PERRY CO. LINE (ICABLE TY			MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC)(S) DATE SA DATE RE DATE TE	EAR - R ID STATE - T NO	SSRVPS - 2014 - 1 - 62
LAB NUMBER	_			20173825		20173	926
SAMPLE ID	_	S905		S906		20173 S907	826
TEST STATUS	_	INFORMATION ONLY					VIINO NOTTAM
STATION	_	14.15	_	14.15		- 14.40	
LOCATION		05 LT	-	16 LT		- 05 RT	
DEPTH IN FEET		0-5	-	0-5		0-5	
MAT'L COLOR	_	BR/RD	_	BROWN		BROWN	
MAT'L TYPE	-		_			-	
LATITUDE DEG-MIN-S	SEC -	34 47 51.90	-	34 47	52.00	- 34	48 .60
LONGITUDE DEG-MIN-S	SEC -	92 46 20.40		92 46	20.50	92	46 32.30
% PASSING 2	IN		-		8		
1 1/2	IN		*		10	H	
3/4	IN	100	1000	100	8	=	
3/8	IN	98	_	99	3	100	
	4 -		_	94	3	99	
	10 -		=	85		94	
	40 -		-	72	8	83	
	80 -		-8	65		77	
NO. 2	200 -	69		56		70	
LIQUID LIMIT	-	37		25		= 30	
PLASTICITY INDEX	-	14	-	08		10	
AASHTO SOIL	-	A-6(8)	$\overline{}$	A-4(2)		A-4 (5)
UNIFIED SOIL	-		-			_	
% MOISTURE CONTENT	-	16.1	-	12.2		22	.5
CHIP SEAL	(IN) -	.125	120			12	25
ACHMSC	(IN) -	2.25				- 2.2	25
CHIP SEAL	(IN) -	.125	3.7			.12	25
ACHMSC	(IN) -	2.0				2.0)
ACHMBC	(IN) _	1.0	-				
AGG.BASE CRS CL-7	(IN) _	6.0		26066		_ 6.0)
	3		-			-	
	≅		-			-	
	-		-			-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

- 01/31/18 DATE SEQUENCE NO. - 38 JOB NUMBER - 061561 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 - 62 SUPPLIER NAME - STATE DISTRICT NO. - 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS - SALINE, COUNTY LOCATION DATE SAMPLED - 12/13/17 SAMPLED BY - FRAZIER/BATES DATE RECEIVED - 12/21/17 SAMPLE FROM - TEST HOLE DATE TESTED - 01/29/18 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS - 20173828 - S909 LAB NUMBER - 20173827 20173829 - 20173827 - S908 SAMPLE ID S910 TEST STATUS - INFORMATION ONLY - INFORMATION ONLY - INFORMATION ONLY STATION - 05 RT LOCATION DOCATION - 16 RT
DEPTH IN FEET - 0-5 16 RT _ 0-5 0 - 5BR/GR - BROWN BR/RD MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC - 34 48 .50 - 34 48 23.20 - 34 48 23.10 LONGITUDE DEG-MIN-SEC - 92 46 32.20 92 46 44.60 92 46 44.60 2 IN. -% PASSING 1 1/2 IN. -100 3/4 IN - 100 91 - 100 - 97 - 94 - 88 - 82 3/8 IN. - 98 85 NO. 4 - 96 80 NO. 10 - 91 94 75 NO. 40 - 82 88 69 NO. 80 - 77 65 NO. 200 - 73 73 57 LIQUID LIMIT 34 = 33 30 PLASTICITY INDEX - 12 AASHTO SOIL - A-6 13 13 A-6(8) = A-6(8) A-6(5) UNIFIED SOIL % MOISTURE CONTENT = 19.3 16.2 13.5 (IN) -CHIP SEAL .125 ACHMSC (IN) -- 2.0 (IN) -.25 CHIP SEAL (IN) .75 ACHMSC ---(IN) ___ .75 AGG.BASE CRS CL-7 ---8.0 (IN) _

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO TO : PURPOSE - SOI: SPEC. REMARKS - NO SUPPLIER NAME - STA' NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CHE PERRY CO. ICABLE TY	ECK . LINE (SA		MATERIA SPEC. YI SUPPLIE COUNTY/; DISTRIC S.)(S) DATE SA DATE RE DATE TE	EAR - R ID STATE - I NO MPLED - CEIVED -	SSRVPS 2014 1 62
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-	- - - - - - - SEC -	20173830 S911 INFORMATI 15.15 05 LT 0-3Z BR/RD	ON ONLY -	20173831 S912 INFORMATI 15.15 16 LT 0-3Z BR/RD	ION ONLY	S913 INFORM 15.4 05 RT 0-5 BR/GR	MATION ONLY
LONGITUDE DEG-MIN- % PASSING 2	SEC - IN	92 46	48.60	92 46	48.80	92	46 50.00
1 1/2	IN		-		19	4	
3/4	IN		-	100	32		
3/8	IN		~	92	85	100	
·	4 -		-	86	2.	95	
	10 -		_	80	39	85	
	40 -		-	73		71	
	80 -		_	66		64	
	200 -			55	-	58	
LIQUID LIMIT	_		2	25		- 31	
PLASTICITY INDEX	_		-	0.8		- 08	
AASHTO SOIL	_		57	A-4(2)		A-4 (3	3)
UNIFIED SOIL	_		-			-	•
% MOISTURE CONTENT	-	13.1	=	12.9		13	. 5
CHIP SEAL	(IN) -	.125	2			.12	5
ACHMSC	(IN) -	2.0	:=	i lede		2.2	5
CHIP SEAL	(IN) -	.25	-			.25	
ACHMSC	(IN) -	.75	-			1.0	
ACHMBC	(IN)	.75	-			. 75	
AGG.BASE CRS CL-7	(IN) _	8.0	-			8.0	
			-	12		=:	
) (200 (1) (200						
	200		=	i.			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/JOB NUMBER - 061 FEDERAL AID NO TO DURPOSE - SOID SPEC. REMARKS - NO SUPPLIER NAME - STANAME OF PROJECT - HOPOJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOID	561 BE ASSI L SURVE SPECIFI TE WY. 5 - OT APPL SAS E, COUN R/BATES HOLE	Y SAMPLE CATION CH: PERRY CO ICABLE TY	ECK . LINE (S			MATERI SPEC. SUPPLI COUNTY DISTRI) (S) DATE DATE	IAL YEA IER Y/ST ICT SAMI RECI		\$\$ 20 1 62 06	RVPS 14
LAB NUMBER	, les	20173833			20173834		: E	201738	335	
SAMPLE ID	<u> </u>	S914			S915			S916		
TEST STATUS	<u> </u>	INFORMAT	ON ONLY	_	INFORMATIO	N ONLY			ITAN	ON ONLY
STATION	=	15.4		; 4 6)	15.65		=	15.65		
LOCATION	-	16 RT		**	05 LT		· ·	16 LT		
DEPTH IN FEET	*	0-5		_	0-5		(2) (2)	0-5		
MAT'L COLOR		BROWN		=	BROWN		-	BROWN		
MAT'L TYPE		24 40	40.00	-					4.0	
LATITUDE DEG-MIN-					34 49		1,50	34		
LONGITUDE DEG-MIN-	SEC =	92 46	50.00		92 46	46.30		92	46	46.40
% PASSING 2				\sim			-			
-	IN			-			-	100		
	IN. =	100		20	100		2	96		
•		95		= 6	96		-	91		
	4 =			-	90 84		-	85		
	10 -			=	79		:: :	80 75		
NO.				37.1 201	74		5 (T) 5 (2)	73		
	200 =				67			64		
LIQUID LIMIT	-			-	31		-	27		
PLASTICITY INDEX AASHTO SOIL	=			-	11 A-6(5)			08	٠,	
UNIFIED SOIL	<u> </u>	A-4(1)		-	A-6(5)		122	A-4 (3	> <i>)</i>	
% MOISTURE CONTENT		8.3		_	18.5		~	19	. 3	
CHIP SEAL	(IN) -			-	.125		_	222		
ACHMSC	(IN) -	222		-	2.25		-			
CHIP SEAL	(IN) -			-	.25		-			
ACHMSC	(IN) _				1.0		_	35.5		
AGG.BASE CRS CL-7	(IN) -			*	6.0		_	: - : - : -		
	-			*			_			
	=			=			-			
	<u>≅</u> ≥			7			_			
				-			-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

3

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/30 JOB NUMBER - 06156 FEDERAL AID NO TO BE PURPOSE - SOIL SPEC. REMARKS - NO SE SUPPLIER NAME - STATE NAME OF PROJECT - HWY PROJECT ENGINEER - NO PIT/QUARRY - ARKANSA	51 E ASSION SURVE PECIFION SURVE PEC	Y SAMPLE CATION CHI PERRY CO ICABLE	ECK	SAF	ETY IMPVTS	MATERI SPEC. SUPPLI COUNTY DISTRI	AL YEA ER /ST CT	TATE - 62 NO 06
LOCATION - SALINE, SAMPLED BY - FRAZIER	•							PLED - 12/13/17 EIVED - 12/21/17
SAMPLE FROM - TEST HO	•					DATE I		
MATERIAL DESC SOIL	SURVE	Y - R VA	LUE- PAV	EME	NT SOUNDING	GS		
LAB NUMBER	-	20173836		æ	20173837		-	20173838
SAMPLE ID	-	S917			S918			S919
TEST STATUS	-	INFORMAT	ON ONLY	=/	INFORMATIO	ON ONLY		INFORMATION ONLY
STATION		15.9		=0	15.9			16.15
LOCATION		05 RT		-	16 RT			05 LT
DEPTH IN FEET		0-5		2	0-3.5Z		_	0-3Z
MAT'L COLOR	-	GRAY		=0	GRAY		-	RD/BR
MAT'L TYPE LATITUDE DEG-MIN-SE	-	24 40	3.4.40	-	34 49	14 20	*	34 49 26.90
LONGITUDE DEG-MIN-SE	EC -	92 46	45 80	30		45.80		92 46 41.50
		52 10	15.00		32 10	43.00		22 10 11.30
% PASSING 2 1 1 1/2 1	IN			_			_	
·	IN	100		_	100		_	
•		97		-	93		_	100
· · · · · · · · · · · · · · · · · · ·	4 -			-	86		-	95
	10 -	88		-	76		-	85
NO. 4		77		_	65		_	73
NO. 8		71		_	59		_	67
	00 -	64			54			61
LIQUID LIMIT	_	35		2000	39		-	30
PLASTICITY INDEX	_	13		-				11
AASHTO SOIL	_	A-6(7)		-	- ·		-	A-6(4)
UNIFIED SOIL	_	11 0 (/)			11 0 (0)		12	11 0 (1)
% MOISTURE CONTENT	_	7.0		-	9.6		-	12.0
	IN) -	.125		=			2	.125
· ·	IN) -	2.25		-			-	7.0
	IN) -	. 25		: :				.25
5	IN) -						-	.75
	IN)	1.5		727			-	1.0
	IN) _	5.0		_			_	6.0
	_			377				
	-			-			-	
	-			•			-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

SPEC. REMARKS - NO S. SUPPLIER NAME - STAT! NAME OF PROJECT - HW PROJECT ENGINEER - NO PIT/QUARRY - ARKANS.	61 E ASSI SURVE PECIFI E Y. 5 - T APPL AS	Y SAMPLE CATION CHECK PERRY CO. LINE (ICABLE	SAF	ETY IMPVTS.	MATERI SPEC. SUPPLI COUNTY DISTRI	AL YEA ER /ST	NO 42 CODE - SSI AR - 201 ID 1 TATE - 62 NO 06	L4
LOCATION - SALINE SAMPLED BY - FRAZIER SAMPLE FROM - TEST HO	/BATES	;			DATE I	RECI	PLED - 12, EIVED - 12, FED - 01,	/21/17
MATERIAL DESC SOIL	SURVE	EY - R VALUE- PAV	EME	NT SOUNDING	GS			
LAB NUMBER		20173839	_	20173840		-	20173841	
SAMPLE ID	_			S921			S922	
TEST STATUS	2				ON ONLY			ON ONLY
STATION		16.15	-	16.4	711 01121		16.4	
LOCATION		16 LT	-	05 RT		-	16 RT	
DEPTH IN FEET		0-1Z	-	0-5		-	0-5	
MAT'L COLOR		BR/RD	-	BR/GR		-	BROWN	
MAT'L TYPE		,	_	,		-		
LATITUDE DEG-MIN-SI	EC =	34 49 26.90	_	34 49	38.10		34 49	38.00
LONGITUDE DEG-MIN-SI							92 46	33.40
% PASSING 2 1 1 1/2 1	IN		=			-	100	
	IN		-	100		-	78	
	IN		=	91		-	78	
NO.			-	84		-	73	
NO.			\rightarrow	75		-	62	
NO.			=23	65		=	55	
NO.				61			51	
NO. 2			-	53		-	41	
110. 2				55			41	
LIQUID LIMIT	*		-	31		-	27	
PLASTICITY INDEX	¥		*	13		-	09	
AASHTO SOIL	~			A-6(4)		-	A-4(1)	
UNIFIED SOIL	=					_		
% MOISTURE CONTENT	(e	8.3		12.7			10.5	
CHIP SEAL (IN) -		_	.125		_		
	IN) -		-	4.5W		_		
	IN) -		-	6.0		-		
,	=					-		
	=		100			-		
	_		_			_		
	_		-			_		
			-					
	= =		_			_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 01/ JOB NUMBER - 061 FEDERAL AID NO - TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - SALIN SAMPLED BY - FRAZIE SAMPLE FROM - TEST MATERIAL DESC SOI	DATE SAMPLED - 12/13/17 DATE RECEIVED - 12/21/17 DATE TESTED - 01/29/18									
LAB NUMBER - 20173842 SAMPLE ID - S923 TEST STATUS - INFORMATION ONLY STATION - 16.65 LOCATION - 05 LT DEPTH IN FEET - 0-3Z MAT'L COLOR - BR/GR MAT'L TYPE - LATITUDE DEG-MIN-SEC - 34 49 48.90 LONGITUDE DEG-MIN-SEC - 92 46 24.60					S924 INFORMATIO 16.65 16 LT 0-2Z BR/GR	ON ONLY		201738 S925 INFORM 16.9 05 RT 0-4Z BR/GR	ATI	58.10
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	IN IN IN	100 94 83 69 63	21.00	-	100 97 86 71 66 61	24.00		100 95 87 76 62 56 48	40	13.30
	- -				13			28 13 A-6(3 6. .125 5.0 6.0	3	

REMARKS - W-MULTIPLE LAYERS, X-STRIPPED, Z-AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/30/18 SEQUENCE NO. = 44 JOB NUMBER - 061561 MATERIAL CODE - SSRVPS FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014 SUPPLIER ID. - 1 PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 62 SUPPLIER NAME - STATE DISTRICT NO. - 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - SALINE, COUNTY DATE SAMPLED - 12/13/17 SAMPLED BY - FRAZIER/BATES DATE RECEIVED - 12/21/17 SAMPLE FROM - TEST HOLE DATE TESTED - 01/29/18 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS LAB NUMBER - 20173845 - 20173846 - 20173847 - S926 - S927 - S928 SAMPLE ID TEST STATUS - INFORMATION ONLY - INFORMATION ONLY - INFORMATION ONLY STATION LOCATION 17.15 - 16.9 - 16 RT - 0-2.5Z - GRAY = 16 LT ● 05 LT 0-3Z RD/BR 0-3Z DEPTH IN FEET _ RD/BR MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC - 34 49 58.00 - 34 50 8.40 - 34 50 8.20 LONGITUDE DEG-MIN-SEC - 92 46 13.50 92 46 3.80 92 46 4.10 92 46 3.80 92 46 4.10 % PASSING 2 IN: -1 1/2 IN. -3/4 IN. - 100 100 100 98 95 3/8 IN. - 98 NO. 4 - 91 91 91 - 80 - 68 - 63 NO. 10 - 79 NO. 40 - 63 79 NO. 80 - 56 - 63 NO. 200 - 50 54 55 ¥ 31 LIQUID LIMIT 31 - 29 PLASTICITY INDEX - 09
AASHTO SOIL - A-4(2
UNIFIED SOIL -11 **11** - A-4(2) = A-6(3) A-6(4) 5.2 16.5 % MOISTURE CONTENT -10.7 (IN) - ---- .125 - 3.25 CHIP SEAL (IN) ----ACHMSC CHIP SEAL (IN) -.25 .75 ACHMSC (IN) ----(IN) _ ---.75 ACHMBC AGG.BASE CRS CL-7 (IN)_ ---6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/3 JOB NUMBER - 0615 FEDERAL AID NO TO E PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HV PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - SALINE	661 BE ASSION SURVE EPECIFION CE WY. 5 - DT APPL	Y SAMPLE CATION CHE PERRY CO. ICABLE	CK	AFETY IMPVTS		SSRVPS 2014 1 62 06					
SAMPLED BY - FRAZIER/BATES DATE RECEIVED - 12/											
SAMPLE FROM - TEST HOLE DATE TESTED - 01/29/1 MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS											
LAB NUMBER	-	20173848		= 0	:=						
SAMPLE ID	22			-	::=						
TEST STATUS	<u> </u>	INFORMATIO	ON ONLY	-	<u> </u>						
STATION	=	17.4		= 5	%						
LOCATION	-	05 RT		* :							
DEPTH IN FEET	-	0-5		3	3 5 72						
MAT'L COLOR	=	BR/GR		구시 골목	(
MAT'L TYPE				## E	3 H						
LATITUDE DEG-MIN-S				. 	Se.						
LONGITUDE DEG-MIN-S	SEC =	92 46	2.20								
% PASSING 2	IN			≅ 6	(<u>a</u>						
1 1/2	IN			(a):	:=						
3/4	IN. =	100		3 0	ter .						
3/8	IN	97		数) 186	5 5 7.						
	4 =			= 1	12						
	10 -			- 2	120						
		83		= ₹	1.E.						
	80 =	79		20	÷						
NO. 2	200 =	72									
LIQUID LIMIT	-	35		≅) =						
PLASTICITY INDEX	ä	16		(#E)	100						
AASHTO SOIL	<u> </u>	A-6(10)		=	7. 2.						
UNIFIED SOIL					/ =						
% MOISTURE CONTENT	7 E	10.4		-	-						
ACHMSC	(IN) -	3.5W			<u>≅</u> 4						
AGG.BASE CRS CL-7		6.0		-							
	=			(*)	æ						
	=			=	=;						
	=			=	<u></u>						
	-				-						
	-			; = 7							
	8			:::::::::::::::::::::::::::::::::::::::	,						
	=			¥	S						

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

```
- 01/22/18
DATE
                                                   SEQUENCE NO. - 1
JOB NUMBER - 061561
                                                  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 - 62
SUPPLIER NAME - STATE
                                                  DISTRICT NO. - 06
NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
          - SALINE, COUNTY
LOCATION
                                                   DATE SAMPLED - 12/13/17
SAMPLED BY - FRAZIER/BATES
                                                   DATE RECEIVED - 12/21/17
SAMPLE FROM - TEST HOLE
                                                  DATE TESTED
MATERIAL DESC. - SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS
                    - 20173849 - 20173850 - 201738
- RV930 - RV931 - RV932
  LAB NUMBER
                                                        20173851
  SAMPLE ID
 TEST STATUS
                 - INFORMATION ONLY - INFORMATION ONLY
                                       - 02.75
                    - 01.5
  STATION
                                                          05.8
 LOCATION
                                      - 16 LT
                - 16 RT
- 0-5
- BROWN
                                                        ■ 16 RT
                                      0-5
BROWN
                                                        0-5
  DEPTH IN FEET
                                                    BROWN
  MAT'L COLOR
  MAT'L TYPE
  LATITUDE DEG-MIN-SEC - 34 38 7.70 - 34 39 3.70 = 34 41 26.00
 LONGITUDE DEG-MIN-SEC - 92 46 3.00 92 46 42.80 92 46 24.90
  % PASSING 2 IN. -
            1 1/2 IN. - 100
                                    - 100

- 91

- 74

- 63

- 45

- 41

- 38

- 32

- 13
                                       = 100
              3/4 IN. - 94
3/8 IN. - 83
                                                           100
                                                           90
             NO. 4 - 80
                                                           85
              NO. 10 - 77
                                                           80
              NO. 40 - 74
                                                            74
             NO. 80 - 71
                                                           72
              NO. 200 - 63
                                                           69
                     - 27
                                                        3.3
  LIQUID LIMIT
  PLASTICITY INDEX - 07
                                                           13
                                    - A-6(1)
  AASHTO SOIL
                    - A-4(2)
                                                           A-6(7)
  UNIFIED SOIL
  % MOISTURE CONTENT
```

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 01/22/18 SEQUENCE NO 2 JOB NUMBER - 061561 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 - 62 SUPPLIER NAME - STATE DISTRICT NO 06 NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.) (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - SALINE, COUNTY SAMPLED BY - FRAZIER/BATES DATE RECEIVED - 12/13/17 SAMPLE FROM - TEST HOLE DATE TESTED - MATERIAL DESC SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS										
LAB NUMBER								00155	0.5.4	
					853			20173		
SAMPLE ID	- RV93				43 D.T	ONT ONT 17		RV935		ON ONLY
TEST STATUS STATION	- INFO		N ONLY -		MAT.T.	ON ONLY		11.05		ON ONLY
	- 16 L		=	09.8 16 RT				16 LT		
	- 16 L.	L	2	0-5			-	0-5		
MAT'L COLOR	BR/GI	>	<u>~</u>	BR/GR			-			
MAT'L COLOR MAT'L TYPE	- 1510/ 01		-	Dit, Oit			-	Dit/ Git		
LATITUDE DEG-MIN-SEC	- 34	42 1	7.10 =	34	44	35.20	_	34	45	37.70
LONGITUDE DEG-MIN-SEC										55.60
						10.20				
% PASSING 2 IN.			-	100			-			
1 1/2 IN.			-				-	100		
3/4 IN. 3/8 IN.			2	93 77			744	100 79		
NO. 4			-	65			-	7 <i>9</i> 58		
NO. 10			-	52			-	48		
NO. 40							100	37		
NO. 80			_				-	34		
NO. 200				35				31		
I TOUTD I TWEE				2.1				2.0		
LIQUID LIMIT	- 26 - 07		*	31 10			122	36 16		
PLASTICITY INDEX AASHTO SOIL	- 07 - A-4	/ O \		10 A-2-	4 (0)		32	A-2-	<i>E</i> (0)	
UNIFIED SOIL	- A-4	(0)	= =	A-2-	4(0)		-	A-2-	6(0)	
% MOISTURE CONTENT	_		-				*			
" MOIDIONE CONTENT										
	-		-				-			
	_		-				_			
	_		_				_			
	-		-				-			
	-		_				-			
	-		-				-			
	_		-				-			
	_		_				_			
							_			
REMARKS - W=MULTIPLE LA	YERS, X=	STRIPE	PED, Z=AU	GER REF	'USAI	_				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

D.1.00	07/	00/1	_		, -			01.0					_		
	ATE - 01/22/18								SEQUENCE NO 3				,		
JOB NUMBER - 061561									MATERIAL CODE - RV						
FEDERAL AID NO TO BE ASSIGNED										SPEC. YEAR - 2014					
FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE										SUPPLI					
SPEC. REMARKS - NO SPECIFICATION CHECK										COUNTY	r/si	TATE -	62		
SUPPLIER NAME - STATE											CT	NO	0.6	;	
NAME OF PROJECT - HWY. 5 - PERRY CO. LINE (SAFETY IMPVTS.)(S) PROJECT ENGINEER - NOT APPLICABLE															
			PPL	ICABLE											
PIT/QUARRY -															
LOCATION - SALINE, COUNTY										DATE SAMPLED - 12/13/17					
SAMPLED BY - F			TES							DATE F	REC	EIVED -	- 12	/21/17	
SAMPLE FROM -										DATE 7		TED ·	-		
MATERIAL DESC SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS															
LAB NUMBER			m	20173	355		=	20173	856		-	20173	857		
SAMPLE ID			2	RV936			. 	RV937				RV938			
TEST STATUS			-	INFOR	TAN	CON ONL	Y	INFOR	ITAM	20173657 - RV938 MATION ONLY - INFORMATION - 15.65				ON ONLY	
STATION			=	12.25			¥).	14.40			2	15.65			
LOCATION			-	T0 KT			-	16 RT			*	16 LT			
DEPTH IN FEET			-	0-5				0-5				0-5			
MAT'L COLOR			22	BR/RD			=	BROWN			-	BROWN			
MAT'L TYPE			22				-				-				
LATITUDE DEG	-MIN-	SEC	2	34	46	29.20	=	34	48	.50	-	34	49	1.40	
LONGITUDE DEG	-MIN-	SEC	77	92	45	28.60		92	46	32.20		92	46	46.40	
% PASSING	2	IN.	<u>~</u>				21				2				
	1 1/2	IN.	-	100			-	100			-	100			
	3/4	IN.		89			~	91			*	91			
	3/8	IN.	777	87			5.0	73			-	84			
	NO.	4	***	85				67			(T	79			
	NO.	10	-2	83			-	60				75			
	NO.	40	**	79			=	53				72			
	NO.	80	200	73			27	49			-	70			
	NO.							44				64			
LIQUID LIMIT			-	32			-	27			-	28			
PLASTICITY IN	DEX		==	13				09			-	09			
AASHTO SOIL			-	A-6(6)		(**)	A-4	1)		-	A-4 (4)		
UNIFIED SOIL			2	•	,		7.				-		,		
% MOISTURE CO	NTENT		æ				-				-				
			22				52.				20				
							_				-				
			_				()				300				
			-				100				-77				
			2				_								
			~								_				
			***								-				
			=				(#)				17 8				
			= =												

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL