ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO.		050279		
FEDERAL AID PRO	JECT NO	HSIP-0073(61)		
PANGBL	JRN - FOURMI	LE HILL (SAFETY IMPV	TS.) (SEL. SE	CS.) (S)
STATE HIGHWAY	16	SECTION	13	
IN		WHITE		COUNTY

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

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

March 1, 2017

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 050279 Pangburn – Fourmile Hill (Safety Impvts.)(Sel. Secs.)(S) Route 16 Section 13 White County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of adding two foot shoulders and turning lanes at selected locations on Highway 16. Samples were obtained in the existing travel lanes and ditch line.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of moderately to highly plastic clays containing varying amounts of sandstone fragments. Cross sections are not currently available, but it is anticipated that the construction grade line will closely match that of the existing roadway. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. Prior to embankment being placed in the existing ditch line, all soft unstable organic material should be undercut. It is anticipated that undercut will be no more than two feet, and may be backfilled with locally available unspecified material. Rock was encountered at several locations within the project limits, Table 1 below lists location and depth.

Station	Location from C.L.	Depth (ft.)	Station	Location from CL	Depth (ft.)
108+00	18' RT	2.5	602+00	6', 18' RT	4.0, 2.5
164+00	18' LT	4.5	610+00	6', 18' LT	3.0, 1.8
180+00	6', 18' LT	4.0, 2.0	618+00	6' RT	2.0
212+00	6' LT	3.0	626+00	18' LT	4.0
586+00	6', 18' RT	2.0, 1.5	634+00	6', 18' RT	2.2, 2.5
594+00	6', 18' LT	4.0, 1.5	642+00	6' LT	4.5

Table 1 Location and Depth of Rock

Additional earthwork requirements will be made upon requests when plans are further developed.

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 Judsonia.
- 2. Asphalt Concrete Hot Mix

Туре	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.5	94.5
Binder Course	4.5	95.5
Base Course	4.0	96.0

Michael C. Bei Materials Engineer

MCB:pt:bjj

Attachment

cc: State Constr. Eng. – Master File Copy District 5 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 - 02/28/2017 SEQUENCE NO. - 1 JOB NUMBER - 050279 MATERIAL CODE - SSRV

BEGII	N JOB - END JOB	10
RESI	LIENT MODULUS	
STA.	124+00	10478
STA.	172+00	11661
STA.	312+00	9981
STA.	375+00	11765
STA.	464+00	4900
STA.	642+00	8097

REMARKS 🖙

AASHTO TESTS : T190

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

Job No. Date Sampled: Date Tested:	050279 02/14/17 February 14, 2017	Material Code Station No.: Location:	SSRVPS 124+00 22'RT
Name of Project: County:	PANGBURN - FOUR MILE HILL (SAFETY IMPV) Code: 73 Name: WHITE	18.)	
Sampled By: Lab No.: Sample ID: LATITUDE:	THORNTON 20170344 RV94	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-6(10) 2
1. Testing Inform	nation:		
5	Preconditioning - Permanent Strain > 5% (Y=Ye	es or N= No)	Ν
	Testing - Permanent Strain > 5% (Y=Yes or N=N	No)	N
	Number of Load Sequences Completed (0-15)		15
2. Specimen Info	prmation:		
•	Specimen Diameter (in):		
	Тор		3.95
	Middle		3.94
	Bottom		3.95
	Average		3.95
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8.02
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.02
	Initial Area, Ao (sq. in):		12.16
	Initial Volume, AoLo (cu. in):		97.52
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		3165.10
4. Soil Propertie	5:		
	Optimum Moisture Content (%):		15.2
	Maximum Dry Density (pcf):		110.8
	95% of MDD (pcf):		105.3
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3165.10
	Compaction Moisture content (%):		15.2
	Compaction Wet Density (pcf):		123.67
	Compaction Dry Density (pcf):		107.35
	Moisture Content After Mr Test (%):		15.2
6. Quick Shear T	est (Y=Yes, N≕No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	14477(Se	c)^-0.19669(S3)^0.17496
		× ×	
8. Comments			
9. Tested By:	deb Dat	e: February 14, 2017	
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED SAMPLES

Job No.	050279			Material Code	SSRVPS
Date Sampled:	02/14/1/			Station No.:	124+00
Date Tested:	February 14, 2017			Location:	22'RT
Name of Project:	PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)	MILE HILL	(SAFETY IMPVTS.)		
County:	Code: 73	Name:	WHITE		
Sampled By:	THORNTON			Depth:	0-5
Lab No.:	20170344			AASHTO Class:	A-6(10)
Sample ID:	RV94			Material Type (1 or 2): 2	2): 2
LATITUDE:				LONGITUDE:	

	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	a/	Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	S _{cyclic}	P _{max}	P _{cyclic}	Pcontact	S _{max}	S _{cyclic}	Scontact	H _{avg}	εr	Mr
UNIT	psi	psi	lbs	lbs	sdl	psi	psi	psi	,c	in/in	psi
Sequence 1	6.0	2.0	25.2	22.4	2.8	2.1	1.8	0.2	0.00086	0.00011	17,093
Sequence 2	6.0	4.0	47.3	44.5	2.8	3.9	3.7	0.2	0.00180	0.00022	16,313
Sequence 3	6.0	6.0	6.9	66.3	3.6	5.7	5.5	0.3	0.00291	0.00036	15,034
Sequence 4	6.0	8.0	93.2	87.1	6.0	7.7	7.2	0.5	0.00432	0.00054	13,290
Sequence 5	6.0	10.0	115.5	107.0	8.4	9.5	8.8	0.7	0.00585	0.00073	12,056
Sequence 6	4.0	2.0	25.0	22.2	2.8	2.1	1.8	0.2	0.00093	0.00012	15,745
Sequence 7	4.0	4.0	47.2	44.4	2.8	3.9	3.6	0.2	0.00199	0.00025	14,728
Sequence 8	4.0	6.0	68.6	65.9	2.8	5.6	5.4	0.2	0.00318	0.00040	13,658
Sequence 9	4.0	8.0	91.8	86.7	5.1	7.5	7.1	0.4	0.00455	0.00057	12,555
Sequence 10	4.0	10.0	114.7	107.2	7.5	9.4	8.8	0.6	0.00612	0.00076	11,547
Sequence 11	2.0	2.0	25.0	22.2	2.8	2.1	1.8	0.2	0.00104	0.00013	14,066
Sequence 12	2.0	4.0	46.9	44.2	2.7	3.9	3.6	0.2	0.00225	0.00028	12,977
Sequence 13	2.0	6.0	68.1	65.3	2.8	5.6	5.4	0.2	0.00359	0.00045	12,009
Sequence 14	2.0	8.0	90.1	85.9	4.2	7.4	7.1	0.3	0.00504	0.00063	11,250
Sequence 15	2.0	10.0	112.4	105.9	6.5	9.2	8.7	0.5	0.00666	0.00083	10,478

DATE February 14, 2017 DATE DATE

TESTED BY REVIEWED BY

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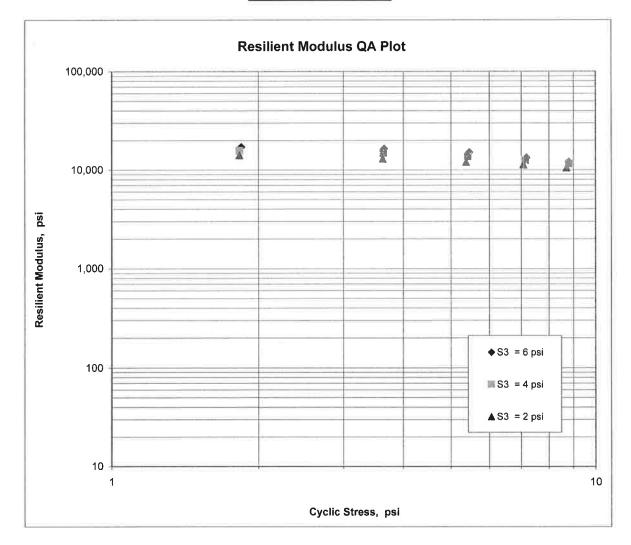
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	050279			Material Code SSRVPS
Date Sampled:	02/14/17			Station No.: 124+00
Date Tested:	February 14, 2017			Location: 22'RT
Name of Project:	PANGBURN - FOU	R MILE	HILL (SAF	ETY IMPVTS.)
County:	Code: 73	Name:	WHITE	
Sampled By:	THORNTON			Depth: 0-5
Lab No.:	20170344			AASHTO Class: A-6(10)
Sample ID:	RV94			Material Type (1 or 2): 2
LATITUDE:				LONGITUDE:

 $M_{R} = K1 (S_{C})^{K2} (S_{3})^{K5}$

K1 =	14,477	
K2 =	-0.19669	
K5 =	0.17496	
$R^2 =$	0.93	



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

Job No. Date Sampled: Date Tested:	050279 02/14/17 February 14, 2017	Material Code Station No.: Location:	SSRVPS 172+00 21'RT
Name of Project:	PANGBURN - FOUR MILE HILL (SAFETY IMPV)		21111
County:	Code: 73 Name: WHITE	<i>,</i>	
Sampled By:	THORNTON	Depth:	0-5
Lab No.:	20170345	AASHTO Class:	A-6(2)
Sample ID:	RV95	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	
1. Testing Inform	nation:		
J. J	Preconditioning - Permanent Strain > 5% (Y=Ye	es or N= No)	Ν
	Testing - Permanent Strain > 5% (Y=Yes or N=N	•	N
	Number of Load Sequences Completed (0-15)	,	15
2. Specimen Info			
	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.95
	Bottom		3.96
	Average		3.96
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8.05
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.05
	Initial Area, Ao (sq. in):		12.22
	Initial Volume, AoLo (cu. in):		98.38
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		3141.50
4. Soil Propertie	s:		
	Optimum Moisture Content (%):		12.9
	Maximum Dry Density (pcf):		114.3
	95% of MDD (pcf):		108.6
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	-		0444 50
	Wet Weight (g):		3141.50
	Compaction Moisture content (%): Compaction Wet Density (pcf):		12.9
	Compaction Dry Density (pcf):		121.67
			107.77
	Moisture Content After Mr Test (%):		12.8
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	14102(S	c)^-0.17549(S3)^0.25723
8. Comments	· · · · · · · · · · · · · · · · · · ·		
	1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
9 Tested By:	deb Dat	e: February 14, 2017	

9. Tested By: deb

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

Job No.	050279			Material Code	SSRVPS
Date Sampled:	02/14/17			Station No.:	172 + 00
Date Tested:	February 14, 2017			Location:	21'RT
Name of Project:	PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)	MILE HILL	(SAFETY IMPVTS.)		
County:	Code: 73	Name: WHITE	WHITE		
Sampled By:	THORNTON			Depth:	0-5
Lab No.:	20170345			AASHTO Class:	A-6(2)
Sample ID:	RV95			Material Type (1 or 2): 2	2): 2
LATITUDE:				LONGITUDE:	

Resilient	Modulus				Mr	psi	20,096	18,752	17,210	15,447	14,288	17,659	16,455	15,312	14,239	13,329	14,452	13,473	12,721	12,136	11,661
Resilient	Strain		_		εr	in/in	0.0000	0.00020	0.00032	0.00047	0.00062	0.00010	0.00022	0.00036	0.00050	0.00067	0.00013	0.00027	0.00043	0.00059	0.00076
Average	Recov Def.	LVDT 1	and 2		H _{avg}	.⊑	0.00074	0.00157	0.00256	0.00376	0.00503	0.00084	0.00179	0.00286	0.00406	0.00539	0.00103	0.00217	0.00342	0.00473	0.00611
Actual	Applied	Contact	Stress		Scontact	psi	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	0.6	0.2	0.2	0.2	0.3	0.5
Actual	Applied	Cyclic	Stress		S _{cyclic}	psi	1.9	3.7	5.5	7.2	8.9	1.8	3.7	5.4	7.2	8.9	1.9	3.6	5.4	7.1	8.8
Actual	Applied	Max.	Axial	Stress	S _{max}	psi	2.1	3.9	5.8	7.7	9.6	2.1	3.9	5.7	7.6	9.5	2.1	3.9	5.6	7.5	9.4
Actual	Applied	Contact	Load		P _{contact}	sdl	2.7	2.8	3.6	6.0	8.5	2.7	2.6	2.7	5.1	7.5	2.6	2.7	2.6	4.2	6.6
Actual	Applied	Cyclic Load			P _{cyclic}	lbs	22.7	44.8	66.8	88.2	109.1	22.6	44.7	66.5	87.9	109.0	22.6	44.5	66.1	87.1	108.1
Actual	Applied	Max. Axial	Load		P _{max}	sdl	25.4	47.5	70.4	94.2	117.6	25.2	47.4	69.2	92.9	116.5	25.2	47.1	68.7	91.3	114.7
Nominal	Maximum	Axial	Stress		S _{cyclic}	psi	2.0	4.0	6.0	8.0	10.0	2.0	4.0	6.0	8.0	10.0	2.0	4.0	6.0	8.0	10.0
Chamber	Confining	Pressure			Ŝ	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	UNIT	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sequence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Sequence 14	Sequence 15

TESTED BY REVIEWED BY

deb

February 14, 2017

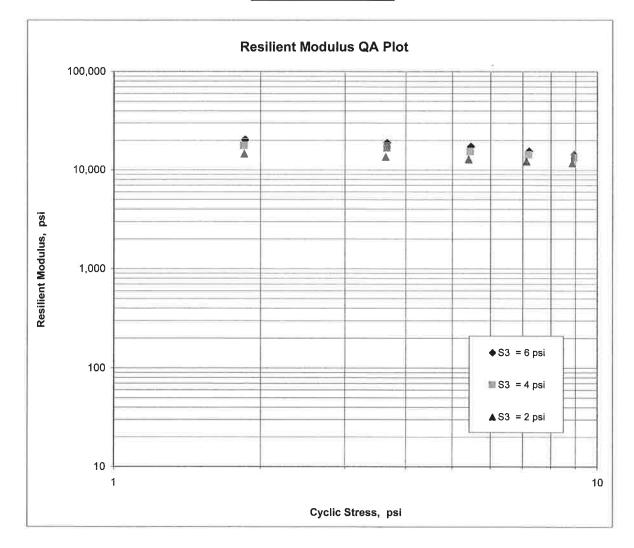
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	050279			Material Code SSRVPS
Date Sampled:	02/14/17			Station No.: 172+00
Date Tested:	February 14, 2017			Location: 21'RT
Name of Project:	PANGBURN - FOU	R MILE I	HILL (SAF	ETY IMPVTS.)
County:	Code: 73	Name:	WHITE	
Sampled By:	THORNTON			Depth: 0-5
Lab No.:	20170345			AASHTO Class: A-6(2)
Sample ID:	RV95			Material Type (1 or 2): 2
LATITUDE:				LONGITUDE:

 $M_{R} = K1 (S_{C})^{K2} (S_{3})^{K5}$

K1 =	14,102	
K2 =	-0.17549	
K5 =	0.25723	
$R^2 =$	0.96	



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

Job No. Date Sampled:	050279 02/14/17	Material Code Station No.:	SSRVPS 312+00
Date Tested:	February 14, 2017	Location:	22'RT
Name of Project:	PANGBURN - FOUR MILE HILL (SAFETY IMPV	TS.)	
County:	Code: 73 Name: WHITE		
Sampled By:	THORNTON	Depth:	0-5
Lab No.:	20170346 RV96	AASHTO Class: Material Turo (1 or 2)	A-7-6(18) 2
Sample ID: LATITUDE:	K V 90	Material Type (1 or 2): LONGITUDE:	2
1. Testing Inform	nation:		
	Preconditioning - Permanent Strain > 5% (Y=Y	es or N= No)	Ν
	Testing - Permanent Strain > 5% (Y=Yes or N=I	No)	N
	Number of Load Sequences Completed (0-15)		15
2. Specimen Info	ormation:		
•	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.95
	Bottom		3.95
	Average		3.95
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8.05
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.05
	Initial Area, Ao (sq. in):		12.20
	Initial Volume, AoLo (cu. in):		98.21
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		2967.90
4. Soil Propertie			40.0
	Optimum Moisture Content (%):		19.9 102.1
	Maximum Dry Density (pcf): 95% of MDD (pcf):		97.0
	In-Situ Moisture Content (%):		97.0 N/A
5. Specimen Pro			
	Wet Weight (g):		2967.90
	Compaction Moisture content (%):		19.6
	Compaction Wet Density (pcf):		115.14
	Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		96.27 19.6
	Molsture Content Alter Mir Test (%).		19.0
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	13577(S	c)^-0.18317(S3)^0.15593
8. Comments			
o. oonments			
9. Tested By:	deb Da	te: February 14, 2017	
J. Testeu Dy.		te: February 14, 2017	

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

Iob No.	050279			Material Code	SQUASS
				ADOO INTANNA	
Date Sampled:	02/14/17			Station No.:	312+00
Date Tested:	February 14, 2017			Location:	22'RT
Name of Project:	PANGBURN - FOUF	MILE HILL	ANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)		
County:	Code: 73	Name:	Name: WHITE		
Sampled By:	THORNTON			Depth:	0-5
Lab No.:	20170346			AASHTO Class:	A-7-6(18)
Sample ID:	RV96			Material Type (1 or 2): 2	2): 2
LATITUDE:				LONGITUDE:	

Annlind	
xial Max. Axial Cyclic Load	Applied Max. Axial
ress Load	Stress Load
cyclic P _{max} P _{cyclic}	-
sdl	sdl
2.0 25.3 22.6	
1.0 47.5 44.7	
3.0 70.3 66.7	
3.0 93.6 87.5	
0.0 116.3 107.8	
2.0 25.2 22.4	_
1.0 47.3 44.5	
3.0 69.2 66.4	
3.0 92.7 87.5	
0.0 115.7 108.1	
2.0 25.2 22.5	_
1.0 47.1 44.4	_
3.0 68.8 66.1	
3.0 91.0 86.8	
0.0 113.9 107.4	

TESTED BY REVIEWED BY

deb

February 14, 2017

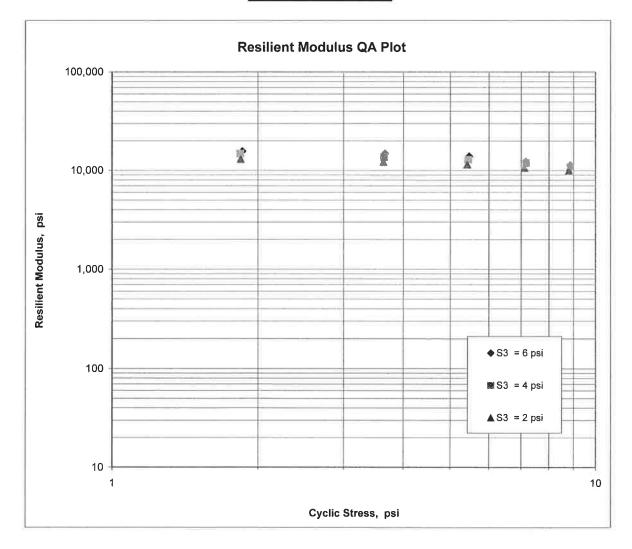
DATE DATE

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

Job No.	050279			Material Code SSRVPS
Date Sampled:	02/14/17			Station No.: 312+00
Date Tested:	February 14, 2017			Location: 22'RT
Name of Project:	PANGBURN - FOU	R MILE	HILL (SAF	ETY IMPVTS.)
County:	Code: 73	Name:	WHITE	
Sampled By:	THORNTON			Depth: 0-5
Lab No.:	20170346			AASHTO Class: A-7-6(18)
Sample ID:	RV96			Material Type (1 or 2): 2
LATITUDE:				LONGITUDE:

 $M_{R} = K1 (S_{C})^{K_{2}} (S_{3})^{K_{5}}$

K1 =	13,577	
K2 =	-0.18317	20
K5 =	0.15593	
$R^2 =$	0.93	



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

Job No. Date Sampled: Date Tested: Name of Project:	050279 2/14/17 February 16, 2017 PANGBURN - FOUR MILE HILL (SAFETY IMI	Material Code Station No.: Location: PVTS.)	SSRVPS 375+00 20'RT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 73Name: WHITETHORNTON20170347RV97	Depth: AASHTO Class: Material Type (1 or 2) LONGITUDE:	0-5 A-6(4) 2
1. Testing Inform	nation:		
	Preconditioning - Permanent Strain > 5% (Y= Testing - Permanent Strain > 5% (Y=Yes or N Number of Load Sequences Completed (0-15	l=No)	N N 15
2. Specimen Info	ormation:		
 Soil Specimer Soil Propertie 	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):		3.94 3.93 3.94 0.01 8.07 0.00 8.07 12.10 97.63 3047.70 15.1 108.8 103.4
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	-		
	Wet Weight (g): Compaction Moisture content (%): Compaction Wet Density (pcf): Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		3047.70 14.9 118.95 103.52 14.9
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	12502(S	c)^-0.11809(S3)^0.26036
8. Comments			
9. Tested By:	G.WENDLAND	Date: February 16, 2017	

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

Job No. Date Sampled:	050279 2/14/17		Material Code Station No.:	SSRVPS 375+00
Date Tested:	February 16, 2017		Location:	20'RT
Name of Project:	PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)	Y IMPVTS.)		
County:	Code: 73 Name: WHITE	(I)		
Sampled By:	THORNTON		Depth:	0-5
Lab No.:	20170347	7	AASHTO Class:	A-6(4)
Sample ID:	RV97	I	Material Type (1 or 2): 2): 2
LATITUDE:			LONGITUDE:	

age Resilient Resilient	Def. Strain Modulus	Τ1	12		vg Er Mr	in/in psi	082 0.00010 18,325	167 0.00021 17,785	266 0.00033 16,702	384 0.00048 15,358	505 0.00063 14,477	088 0.00011 16,993	185 0.00023 15,981	294 0.00036 15,046	414 0.00051 14,149	541 0.00067 13,456	115 0.00014 12,968	230 0.00028 12,875	354 0.00044 12,403		479 0.00059 12,121
-	£	act LVDT 1	ss and 2		act H _{avg}		0.00082	0.00167	0.00266	0.00384	0.00505	0.00088	0.00185	0.00294	0.00414	0.00541	0.00115	0.00230	0.00354		0.00479
-		c Contact	s Stress		c Scontact		0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	0.6	0.2	0.2	0.2		0.3
	_	Cyclic	Stress		S _{cyclic}	psi	1.9	3.7	5.5	7.3	9.1	1.8	3.7	5.5	7.3	0.6	1.8	3.7	5.4		7.2
Actual	Applied	Мах.	Axial	Stress	S _{max}	psi	2.1	3.9	5.8	7.8	9.8	2.1	3.9	5.7	7.7	9.6	2.1	3.9	5.7		7.5
Actual	Applied	0	Load		Pcontact	sdl	2.7	2.8	3.6	6.0	8.4	2.8	2.8	2.8	5.1	7.5	2.8	2.8	2.8	•	4.2
Actual	Applied	Cyclic Load			P _{cyclic}	sdl	22.5	44.6	66.7	88.3	109.6	22.4	44.4	66.2	87.7	109.2	22.3	44.3	65.8	. 10	87.1
Actual	Applied	Max. Axial	Load		P _{max}	lbs	25.2	47.3	70.3	94.3	118.0	25.2	47.2	69.0	92.8	116.7	25.1	47.1	68.6		91.3
Nominal	Maximum	Axial	Stress		S _{cyclic}	psi	2.0	4.0	<u>6.0</u>	8.0	10.0	2.0	4.0	6.0	8.0	10.0	2.0	4.0	6.0		8.0
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	4	Z-U
		PARAMETER			DESIGNATION	UNIT	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sequence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Compared 1	Sequence 14

February 16, 2017

DATE DATE

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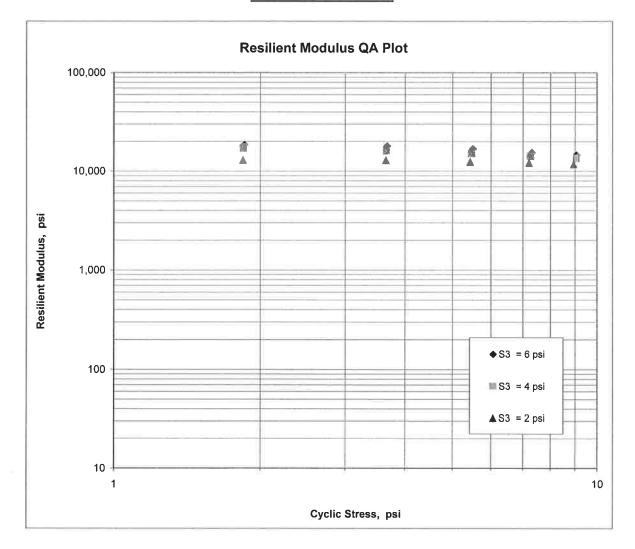
TESTED BY REVIEWED BY

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

Job No.	050279			Material Code SSRVPS
Date Sampled:	2/14/17			Station No.: 375+00
Date Tested:	February 16, 2017			Location: 20'RT
Name of Project:	PANGBURN - FOU	R MILE	HILL (SAFET	Y IMPVTS.)
County:	Code: 73	Name:	WHITE	
Sampled By:	THORNTON			Depth: 0-5
Lab No.:	20170347			AASHTO Class: A-6(4)
Sample ID:	RV97		Ma	aterial Type (1 or 2): 2
LATITUDE:				LONGITUDE:

 $M_{R} = K1 (S_{C})^{K_{2}} (S_{3})^{K_{5}}$

K1 =	12,502	
K2 =	-0.11809	
K5 =	0.26036	
$R^2 =$	0.95	



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

Job No. Date Sampled: Date Tested:	050279 2/14/17 February 16, 2017	Material Code Station No.: Location:	SSRVPS 464+00 22'RT
Name of Project:	PANGBURN - FOUR MILE HILL (SAFETY IMPVTS	S.)	
County:	Code: 73 Name: WHITE		
Sampled By: Lab No.: Sample ID: LATITUDE:	THORNTON 20170348 RV98	Depth: AASHTO Class: Material Type (1 or 2) LONGITUDE:	0-5 A-6(18) 2
1. Testing Inform	nation:		
g	Preconditioning - Permanent Strain > 5% (Y=Yes	s or N= No)	N
	Testing - Permanent Strain > 5% (Y=Yes or N=N	0)	Ν
	Number of Load Sequences Completed (0-15)		15
2. Specimen Info	ormation:		
-	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.95
	Bottom		3.95
	Average		3.95
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8.01
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.01
	Initial Area, Ao (sq. in):		12.20
	Initial Volume, AoLo (cu. in):		97.73
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		3098.20
4. Soil Propertie	s:		
-	Optimum Moisture Content (%):		19.6
	Maximum Dry Density (pcf):		103.4
	95% of MDD (pcf):		98.2
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro			
	Wet Weight (g):		3098.20
	Compaction Moisture content (%):		19.1
	Compaction Wet Density (pcf):		120.80
	Compaction Dry Density (pcf):		101.42
	Moisture Content After Mr Test (%):		19.4
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	9129(5	Sc)^-0.36650(S3)^0.25470
8. Comments			
9. Tested By:	G.WENDLAND Date	E February 16, 2017	

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

 Job No. Date Sampled: Date Tested: Name of Project:	050279 2/14/17 February 16, 2017 PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)	NILE HILL	(SAFETY IMPVTS.)	Material Code Station No.: Location:	SSRVPS 464+00 22'RT
County: Sampled By: Lab No -	Code: 73 THORNTON 20170348	Name:	WHITE	Depth: A A SHTO Class.	0-5 A_6(18)
Sample ID: LATITUDE:	RV98			Material Type (1 or 2): 2 LONGITUDE:	2): 2

Resilient	Modulus				Mr	psi	11,079	10,142	8,594	6,928	5,787	9,816	8,516	7,354	6,288	5,516	8,013	7,172	6,275	5,527	4,900
Ъ.	Mo						11	10	8	9	5	ດັ	8	7,	Ő	5	Ø	7,	9	5	4
Resilient	Strain				τ'n	in/in	0.00017	0.00036	0.00063	0.00101	0.00146	0.00019	0.00043	0.00072	0.00110	0.00153	0.00023	0.00050	0.00083	0.00123	0.00170
Average	Recov Def.	LVDT 1	and 2		H _{avg}	. <u>c</u>	0.00134	0.00290	0.00503	0.00807	0.01169	0.00150	0.00341	0.00577	0.00878	0.01227	0.00183	0.00400	0.00669	0.00987	0.01360
Actual	Applied	Contact	Stress		Scontact	psi	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	0.6	0.2	0.2	0.2	0.4	0.6
Actual	Applied	Cyclic	Stress		S _{cyclic}	psi	1.8	3.7	5.4	7.0	8.4	1.8	3.6	5.3	6.9	8.5	1.8	3.6	5.2	6.8	8.3
Actual	Applied	Max.	Axial	Stress	S _{max}	psi	2.1	3.9	5.7	7.5	9.1	2.1	3.8	5.5	7.3	9.1	2.1	3.8	5.5	7.2	8.9
Actual	Applied	Contact	Load		Pcontact	lbs	2.7	2.7	3.6	6.0	8.5	2.7	2.7	2.8	5.2	7.7	2.8	2.8	2.8	4.3	6.8
Actual	Applied	Cyclic Load			P _{cyclic}	lbs	22.6	44.8	65.8	85.2	103.1	22.4	44.2	64.7	84.1	103.1	22.3	43.7	63.9	83.1	101.5
Actual	Applied	Max. Axial Cyclic Load	Load		P _{max}	lbs	25.3	47.5	69.4	91.2	111.5	25.1	46.9	67.5	89.3	110.8	25.1	46.6	66.7	87.5	108.3
Nominal	Maximum	Axial	Stress		S _{cyclic}	psi	2.0	4.0	6.0	8.0	10.0	2.0	4.0	6.0	8.0	10.0	2.0	4.0	6.0	8.0	10.0
Chamber	Confining	Pressure			ŝ	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	UNIT	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sequence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Sequence 14	Sequence 15

DATE February 16, 2017 DATE DATE

TESTED BY REVIEWED BY

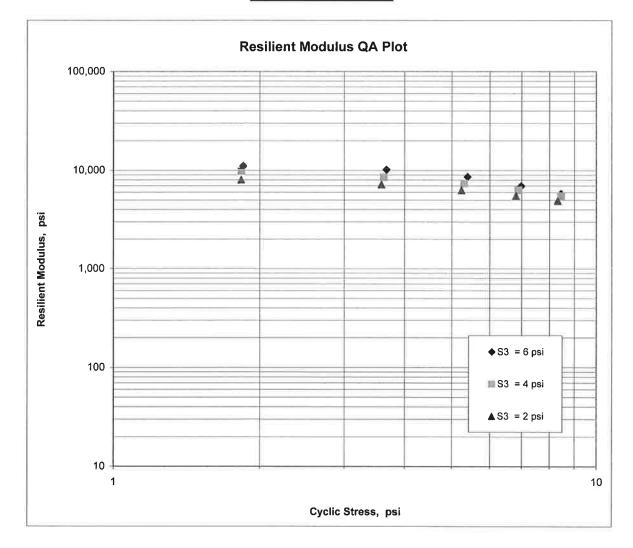
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	050279			Material Code SSRVPS
Date Sampled:	2/14/17			Station No.: 464+00
Date Tested:	February 16, 2017			Location: 22'RT
Name of Project:	PANGBURN - FOU	R MILE	HILL (SAF	ETY IMPVTS.)
County:	Code: 73	Name:	WHITE	
Sampled By:	THORNTON			Depth: 0-5
Lab No.:	20170348			AASHTO Class: A-6(18)
Sample ID:	RV98			Material Type (1 or 2): 2
LATITUDE:				LONGITUDE:

 $M_{R} = K1 (S_{C})^{K2} (S_{3})^{K5}$

K1 =	9,129	
K2 =	-0.36650	
K5 =	0.25470	
$R^2 =$	0.91	



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

Job No. Date Sampled: Date Tested: Name of Project:	050279 2/14/17 February 16, 2017 PANGBURN - FOUR MILE HILL (SAFETY IMPVT	Material Code Station No.: Location: S.)	SSRVPS 642+00 22'LT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 73Name: WHITETHORNTON20170349RV99	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=Ye Testing - Permanent Strain > 5% (Y=Yes or N=N Number of Load Sequences Completed (0-15)		N N 15
2. Specimen Info	prmation:		
 Specimentation Soil Specimer Soil Properties 	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):		3.94 3.95 3.94 3.94 0.01 8 0.00 8 12.14 97.11 3324.40 11.3 120.4
	95% of MDD (pcf):		120.4
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g): Compaction Moisture content (%):		3324.40 11.3
	Compaction Wet Density (pcf):		130.44
	Compaction Dry Density (pcf):		117.20
	Moisture Content After Mr Test (%):		11.1
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	7718(S	c)^-0.13618(S3)^0.42120
8. Comments			
9. Tested By:	G.WENDLAND Date	e: February 16, 2017	

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

Job No. Date Sampled: Date Tested: Name of Project:	050279 2/14/17 February 16, 2017 PANGBURN - FOUF	S MILE HILL	350279 2/14/17 February 16, 2017 PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)	Material Code Station No.: Location:	SSRVPS 642+00 22'LT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 73 THORNTON 20170349 RV99	Name:	WHITE	Depth: 0-5 AASHTO Class: A-2 Material Type (1 or 2): 2 LONGITUDE:	0-5 A-2-4(0) 2): 2

	Chamber Confining	Nominal Maximum	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Average Recov Def.	Resilient Strain	Resilient Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	ŝ	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	Scontact	H _{avg}	ω	Mr
UNIT	psi	psi	lbs	sdl	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.1	22.4	2.7	2.1	1.8	0.2	0.00097	0.00012	15,214
Sequence 2	6.0	4.0	47.4	44.7	2.7	3.9	3.7	0.2	0.00207	0.00026	14,195
Sequence 3	6.0	6.0	70.1	66.6	3.4	5.8	5.5	0.3	0.00326	0.00041	13,451
Sequence 4	6.0	8.0	94.1	88.1	6.0	7.8	7.3	0.5	0.00468	0.00058	12,410
Sequence 5	6.0	10.0	118.3	109.8	8.5	9.7	9.0	0.7	0.00604	0.00076	11,981
Sequence 6	4.0	2.0	24.9	22.2	2.8	2.1	1.8	0.2	0.00114	0.00014	12,831
Sequence 7	4.0	4.0	46.8	43.9	2.8	3.9	3.6	0.2	0.00254	0.00032	11,395
Sequence 8	4.0	6.0	68.4	65.5	2.8	5.6	5.4	0.2	0.00404	0.00051	10,681
Sequence 9	4.0	8.0	92.3	87.2	5.1	7.6	7.2	0.4	0.00557	0.00070	10,318
Sequence 10	4.0	10.0	116.6	109.1	7.6	9.6	9.0	0.6	0.00705	0.00088	10,188
Sequence 11	2.0	2.0	24.7	22.0	2.8	2.0	1.8	0.2	0.00152	0.00019	9,516
Sequence 12	2.0	4.0	45.8	43.0	2.8	3.8	3.5	0.2	0.00331	0.00041	8,555
Sequence 13	2.0	6.0	66.5	63.7	2.8	5.5	5.2	0.2	0.00523	0.00065	8,022
Sequence 14	2.0	8.0	89.2	84.9	4.2	7.3	7.0	0.3	0.00690	0.00086	8,108
Sequence 15	2.0	10.0	113.1	106.5	6.7	9.3	8.8	0.5	0.00867	0.00108	8,097

February 16, 2017

DATE DATE

TESTED BY REVIEWED BY

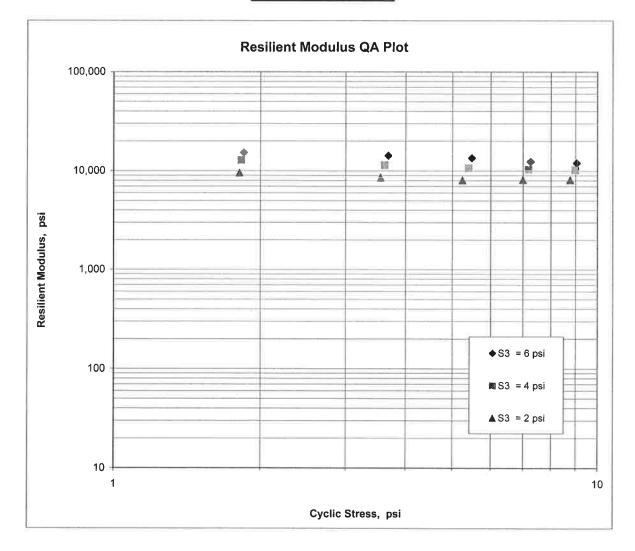
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	050279			Material Code SSRV	'PS
Date Sampled:	2/14/17			Station No.: 642+0)0
Date Tested:	February 16, 2017			Location: 22'LT	
Name of Project:	PANGBURN - FOL	IR MILE	HILL (SAF	FETY IMPVTS.)	
County:	Code: 73	Name:	WHITE		
Sampled By:	THORNTON			Depth: 0-5	
Lab No.:	20170349			AASHTO Class: A-2-4	(0)
Sample ID:	RV99			Material Type (1 or 2): 2	
LATITUDE:				LONGITUDE:	

 $M_{R} = K1 (S_{C})^{K_{2}} (S_{3})^{K_{5}}$

K1 =	7,718	
K2 =	-0.13618	-
K5 =	0.42120	
$R^2 =$	0.99	_



ARKANSAS STATE	HIGHWAY AND TRAN MA MICHAEL BENSC	TERIALS DIVI	ÍSION	LITTLE I	ROCK, ARKANSAS
* *	* SOIL SURVEY /	PAVEMENT SOU	JNDING TEST	REPORT **	*
DATE – 02/ JOB NUMBER – 050 FEDERAL AID NO. – TO PURPOSE – SOI SPEC. REMARKS – NO SUPPLIER NAME – STA NAME OF PROJECT – F PROJECT ENGINEER – M PIT/QUARRY – ARKAM LOCATION – WHITE SAMPLED BY – THORNY SAMPLE FROM – TEST	279 BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CH TE PANGBURN - FOUR M IOT APPLICABLE ISAS C, COUNTY CON/BATES) 2 2 0 1 1 4FETY IMPVTS	MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT .) DATE SAMP DATE RECE	NO 1 CODE - SSRVPS R - 2014 ID 1 ATE - 73 NO 05 PLED - 01/10/17 SIVED - 01/27/17 TED - 02/22/17
MATERIAL DESC SO		ALUE- PAVEME			
STATION LOCATION DEPTH IN FEET	- S4 - INFORMAT - 108+00 - 06 RT - 0-4Z - BROWN - SEC - 35 25	ION ONLY - - - - - - - - - - - - - - - - - - -	S5 INFORMATION 108+00 18 RT 0-2.5Z BROWN 35 25 28	ONLY - - - - - - - - - - - - - - - - - - -	20170256 S6 INFORMATION ONLY 116+00 06 LT 0-5 BROWN 35 25 20.70 91 50 8.10
% PASSING 2 1 1/2 3/4 3/8	IN IN IN IN 100 IN 96 4 - 88		100 98		100 97 95
NO. NO. NO.	10 - 81 40 - 76	-	95 90 83 67		91 88 88 87
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- 25 - 10 - A-4(3) - 16.0	-	29 14 A-6(7) 20.7	-	62 39 A-7-6(37) 26.7
% MOISTORE CONTENT ACHMSC ACHMBC	(IN) - 14.75W (IN) - - - - - - - - - - - - - - - -				9.0WX 3.0
REMARKS - W=MULTIP: -	LE LAYERS, X=STRI	IPPED, Z=AUG	ER REFUSAL		

AASHTO TESTS : T24 T88 T89 T90 T265

 $= \circ$ = 0-

ARKANSAS STATE HI	GHWAY AND TRANSPORTATIC MATERIALS E MICHAEL BENSON, MATERI	IVISION	- LITTLE	ROCK, ARKANSAS
*** (SOIL SURVEY / PAVEMENT	SOUNDING TEST	REPORT **	* *
DATE - 02/22, JOB NUMBER - 050279 FEDERAL AID NO TO BE PURPOSE - SOIL S SPEC. REMARKS - NO SPE SUPPLIER NAME - STATE NAME OF PROJECT - PANO PROJECT ENGINEER - NOT PIT/QUARRY - ARKANSAS LOCATION - WHITE, O	9 ASSIGNED SURVEY SAMPLE ECIFICATION CHECK GBURN - FOUR MILE HILL APPLICABLE S		SPEC. YEA SUPPLIER COUNTY/ST DISTRICT S.)	CODE – SSRVPS R – 2014
SAMPLED BY - THORNTON SAMPLE FROM - TEST HO MATERIAL DESC SOIL	LE	WENT SOUNDING	DATE TEST	CIVED - 01/27/17 CED - 02/22/17
				20170250
SAMPLE ID	- \$7	- S8	_	20170259 S9
TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	 20170257 S7 INFORMATION ONLY 116+00 18 LT 0-5 BROWN 	- INFORMATIO - 124+00 - 06 RT - 0-5 - BROWN	N ONLY - - - - -	INFORMATION ONLY 124+00 18 RT 0-5 BROWN
LATITUDE DEG-MIN-SEC	C - 35 25 20.50 C - 91 50 7.70	- 35 25 1 91 50		35 25 13.30 91 50 5.40
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 NO. 10 NO. 40 NO. 80 NO. 200</pre>	N. – N. – 4 – 100 0 – 0 –	- - 100 - 96 - 84 - 74 - 70 - 68 59		100 99 93 87 81 76 63
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	- 54 - 33 - A-7-6(37)	- 32 - 15 - A-6(6)	- - -	38 21 A-6(11)
% MOISTURE CONTENT	- 29.0	- 26.7	=	27.2
	N) - - - - - - - - - - - - - - -	- 10.0WX		
REMARKS - W=MULTIPLE - -	LAYERS, X=STRIPPED, Z=A	AUGER REFUSAL		

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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE	MICH	AEL BEN	MATERIALS I SON, MATERI	DIV IAL					ARKA	NSAS
DATE – 02, JOB NUMBER – 050 FEDERAL AID NO TO PURPOSE – SOI SPEC. REMARKS – NO SUPPLIER NAME – STA NAME OF PROJECT – I PROJECT ENGINEER – I PIT/QUARRY – ARKAN LOCATION – WHITI SAMPLED BY – THORN' SAMPLE FROM – TEST)279 BE ASSI (L SURVE) SPECIFI ATE PANGBURN NOT APPL NSAS E, COUNT ION/BATE	- FOUR ICABLE	CHECK			SEQUENC MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC CS.) DATE SA DATE RE DATE TE	L CC EAR R II STAT T NC MPL	DDE - - - - - - - - - - - - - - - - - - -	SS 20 1 73 05 - 01 - 01	14 /10/17 /27/17
MATERIAL DESC SO		Y – R	VALUE- PAV	EMF	NT SOUNDING					
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE		S10 INFORM2 132+00 06 LT 0-5 BROWN	ATION ONLY		20170261 S11 INFORMATIC 132+00 18 LT 0-5 BROWN	ONLY	- S - I - 0 - 0 - B	12 NFORN 40+00 6 RT -5 ROWN	1ATI)	
LATITUDE DEG-MIN- LONGITUDE DEG-MIN-					35 25 91 50		÷			58.50
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO. NO. NO. NO.	IN 2 IN 4 IN 3 IN 4 - 10 - 40 - 80 - 200 -	100 99 96			100 98 93 88 85 80		-	100 99 98 92 89 84	2	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC	- - - - (IN) -	31 13 A-6(1 24. 7.5W	3	1 1 1 1 1 1	39 20 A-6(15) 25.0			39 21 A-6(1 22 7.0	.1 W	
ACHMBC	(IN) - - - - - - - - - - -	3.0					- - - - -	6.0	W	
REMARKS - W=MULTIP -	LE LAYER	s, x=sī	RIPPED, Z=	AUG	ER REFUSAL					

- -
- 2

AASHTO TESTS : T24 T88 T89 T90 T265

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	HWAY AND TRANSPORTATIC MATERIALS D MICHAEL BENSON, MATERI	IVISION	LITTLE ROCK, .	ARKANSAS		
	OIL SURVEY / PAVEMENT		EPORT ***			
DATE- 02/22/17SEQUENCE NO 4JOB NUMBER- 050279MATERIAL CODE - SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR - 2014PURPOSE- SOIL SURVEY SAMPLESUPPLIER ID 1SPEC. REMARKS- NO SPECIFICATION CHECKCOUNTY/STATE - 73SUPPLIER NAME- STATEDISTRICT NO 05NAME OF PROJECT- PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER - NOT APPLICABLEPIT/QUARRY- ARKANSASLOCATION- WHITE, COUNTYDATE SAMPLED- 01/10/17SAMPLED BY- THORNTON/BATESSAMPLE FROM- TEST HOLE						
MATERIAL DESC SOIL S						
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- 20170263 - S13 - INFORMATION ONLY - 140+00 - 18 RT - 0-5 - BROWN	- 20170264 - S14 - INFORMATION C - 148+00 - 06 LT - 0-5 - BROWN	- 201702 - S15 DNLY - INFORM - 148+00 - 27'LT - 0-5 - BROWN	265 MATION ONLY)		
LATITUDE DEG-MIN-SEC	- 35 24 58.30 - 91 49 59.70	- 35 24 50. 91 49 59.	60 - 35 70 91	24 50.30 49 59.40		
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 NO. 10 NO. 40 NO. 80 NO. 200</pre>	 100 - 99 - 96 - 89 - 85	- - 100 - 98 - 96 - 94 - 92 - 91 85	- - - - 96 - 89 - 79 - 68 56			
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- 37 - 19 - A-6(14) - 23.4	- 33 - 16 - A-6(12) - 20.1	- 31 - 16 - A-6(- 17			
ACHMSC (IN	1)	- 7.0WX - 3.5 - - - - -				
REMARKS - W=MULTIPLE L -	AYERS, X=STRIPPED, Z=A	AUGER REFUSAL				

AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS			AND TRANSPORTATI MATERIALS N AEL BENSON, MATER	DIV	ISION	- LITTI	LE	ROCK, ARKANSAS
			SURVEY / PAVEMENT			REPORI	· * ·	* *
SUPPLIER NAME	- 050279 D TO BE A - SOIL SU - NO SPEC - STATE CT - PANGE EER - NOT A	SSI RVE SIFI URN	Y SAMPLE CATION CHECK - FOUR MILE HILL			MATERI. SPEC. SUPPLI COUNTY DISTRI	AL YEA ER /SI	NO 5 CODE - SSRVPS AR - 2014 ID 1 PATE - 73 NO 05
LOCATION - SAMPLED BY - SAMPLE FROM - MATERIAL DESC	- THORNTON/H - TEST HOLE	BATE		EME	NT SOUNDING	DATE R DATE T	ECH	PLED - 01/10/17 EIVED - 01/27/17 FED - 02/22/17
LAB NUMBER		-	20170266	-	20170267		_	20170268
SAMPLE ID					S17			S18
TEST STATUS				-	INFORMATIO	N ONLY	=	INFORMATION ONLY
STATION			156+00	-	156+00 18 RT			164+00 06 LT
LOCATION DEPTH IN FE		_	00 111	-	18 KI 0-5		-	0-5
MAT'L COLOR			BROWN		BROWN		_	BROWN
MAT'L TYPE		-		-			-	
			35 24 42.60 91 49 56.80					35 24 37.00 91 49 52.70
% PASSING				-			-	
	1 1/2 IN.			-	100		_	
	3/4 IN. 3/8 IN.		100		100 99		-	100
	NO. 4			-	97		-	95
	NO. 10			_	95		_	91
	NO. 40			-	92		-	87
	NO. 80 NO. 200		87 70	-	89 83		-	85 74
		_						
LIQUID LIMI		-	36	-	34 9			30 13
PLASTICITY AASHTO SOIL		-	21 A-6(12)	-	9 A-4(7)		=	A-6(8)
UNIFIED SOI		_	11 0 (12)	-			-7	11 0(0)
% MOISTURE	CONTENT	_	17.6	-	21.8			17.3
ACHMSC	(IN) –	10.3XW	_			-	7.5WX
ACHMBC	(IN			-			-	4.0
		-		_			-	
		_		_			-	
		-		-			-	
		_		_			-	
		-		-			-	
		-		-			-	
REMARKS - W=	MULTIPLE L	AYER	S, X=STRIPPED, Z=	AUC	GER REFUSAL			
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AASHTO TESTS 🔃 T24 T88 T89 T90 T265

ARKANSAS STATE		AND TRANSPORTATI MATERIALS AEL BENSON, MATER	DIV	ISION		ΓLE	ROCK, ARKANSAS
* *	* SOIL	SURVEY / PAVEMENT	SO	UNDING TEST	REPOR	XT *	* *
SUPPLIER NAME - STA NAME OF PROJECT - F PROJECT ENGINEER - N PIT/QUARRY - ARKAN	279 BE ASSI L SURVE SPECIFI TE PANGBURN NOT APPL ISAS	Y SAMPLE CATION CHECK - FOUR MILE HILL ICABLE			MATER SPEC. SUPPL COUNT DISTR	IAL YEA IER Y/SI ICT	NO. – 6 CODE – SSRVPS AR – 2014 ID. – 1 CATE – 73 NO. – 05
LOCATION - WHITE SAMPLED BY - THORNY SAMPLE FROM - TEST MATERIAL DESC SOU	ON/BATE HOLE	2S	F.MF	NT SOUNDING	DATE DATE	REC	PLED - 01/10/17 EIVED - 01/27/17 TED - 02/22/17
LAB NUMBER				20170270		-	20170271
SAMPLE ID	_	001.0000		S20			S21
TEST STATUS		010			N ONLY		INFORMATION ONLY
STATION		164+00	-	172+00		100	172+00
LOCATION	-	18 LT	_	06 RT			18 RT
DEPTH IN FEET			-	0-5 BROWN			0-5 BROWN
MAT'L COLOR MAT'L TYPE	-	BROWN	2	DICOWIN		122	DICOMIN
LATITUDE DEG-MIN-					28.90	-	35 24 28.60
LONGITUDE DEG-MIN-	SEC -	91 49 51.70		91 49	48.50		91 49 48.40
% PASSING 2							
	IN		+			-	
	IN		1			_	100
	IN 4 -			100 95		-	96 91
	10 -		-	0.1		_	87
NO.	40 -	76	÷	88		_	82
	80 -	70	575	86		-	78
NO.	200 -	55		77			65
LIQUID LIMIT	-	28	-	32		-	28
PLASTICITY INDEX	-	13		14		_	11
AASHTO SOIL UNIFIED SOIL	-	A-6(4)	-	A-6(9)		-	A-6(5)
% MOISTURE CONTENT	_	21.4	\overline{a}	24.6		-	25.4
ACHMSC	(IN) -		_	8.0WX		_	
ACHMBC	(IN) -			5.0		_	
	-		-			-	
	_		_			_	
	-		—			-	
	-		-			-	
	_		_			_	
	-		-			_	
REMARKS - W=MULTIPI	LE LAYEF	RS, X=STRIPPED, Z=	AUG	GER REFUSAL			
-							
1.27							

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- AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT *** - 02/27/17 DATE SEQUENCE NO. - 7 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO. - 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS - WHITE, COUNTY LOCATION DATE SAMPLED - 01/10/17 SAMPLED BY - THORNTON/BATES DATE RECEIVED - 01/27/17 SAMPLE FROM - TEST HOLE DATE TESTED - 02/22/17 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS - 20170272 - 20170273 - S22 - S23 LAB NUMBER 20170274 SAMPLE ID - S24 TEST STATUS INFORMATION ONLY INFORMATION ONLY STATUS 120,000 100,000 - 180+00 = 180+00 188+00 STATION - 06 LT - 0-4Z - BROWN - 180+00 - 18 LT - 0-2Z BROWN LOCATION - 06 RT DEPTH IN FEET 0-5 BROWN MAT'L COLOR MAT'L TYPE -LATITUDE DEG-MIN-SEC - 35 24 21.50 = 35 24 21.50 = 35 24 14.10 LONGITUDE DEG-MIN-SEC - 91 49 44.90 91 49 44.70 91 49 41.20 % PASSING 2 IN. -1 1/2 IN. --- 100 3/4 IN. -100 -3/8 IN. - 100 99 98 - 99 - 99 - 94 - 88 - 78 98 97 99 NO. 4 -NO. 10 - 95 94 95 93 NO. 40 - 91 NO. 80 -87 90 NO 200 - 72 58 73 - 33 - ND LIQUID LIMIT 32 PLASTICITY INDEX - 15 -NP 14 - A-6(9) -AASHTO SOIL A-4(0) A-6(8) -UNIFIED SOIL --% MOISTURE CONTENT -19.7 22.3 22.8 (IN) - 6.0WX - -ACHMSC 9.0WX --(IN) --ACHMBC ---3.0 1 --÷ -

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

ARKANSAS STATE HIGHWAY AN	MATERIALS DIVIS	ION	ROCK, ARKANSAS		
	BENSON, MATERIALS VEY / PAVEMENT SOUN		* *		
DATE - 02/27/17 SEQUENCE NO 8 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS					
LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE		DATE RECE DATE TEST	PLED - 01/10/17 SIVED - 01/27/17 FED - 02/22/17		
MATERIAL DESC SOIL SURVEY	- R VALUE- PAVEMENT	SOUNDINGS			
	170275 - 20 5 - S2				
TEST STATUS-INSTATION-18LOCATION-18DEPTH IN FEET-0 -MAT'L COLOR-BR	8+00 = 19 RT = 06 5 = 0	96+00	INFORMATION ONLY 204+00 06 RT 0-5 BROWN		
MAT'L COLOR - DR MAT'L TYPE - LATITUDE DEG-MIN-SEC -			35 24 2.10		
LONGITUDE DEG-MIN-SEC -	91 49 41.70	91 49 35.10	91 49 28.40		
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 2/0 IN</pre>	-		100		
3/8 IN 1 NO. 4 -	-	- 00 99 -	100 96		
NO. 10 -		_	93		
NO. 40 -		96 -	90		
	89 - 73	93 - 64	88 73		
		38 -	37		
		19 - A-6(10) -	22 A-6(14)		
UNIFIED SOIL -	-0(10)	R-0(10)	A-0(14)		
% MOISTURE CONTENT -	21.6 -	20.6	24.9		
ACHMSC (IN) -	32 à	8.0WX -	1000		
ACHMBC (IN) -		2.5 -	(4.94)		
-	-				
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-	-	1000 Const.			
-	-				
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATIO MATERIALS I MICHAEL BENSON, MATER:	DIVISION
*** SOIL SURVEY / PAVEMENT	
DATE - 02/22/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - PANGBURN - FOUR MILE HILL PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS	COUNTY/STATE - 73 DISTRICT NO 05
LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAVE	DATE SAMPLED - 01/10/17 DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17 EMENT SOUNDINGS
	- 20170279 - 20170280
SAMPLE ID - S28	- S29 - S30 - INFORMATION ONLY - INFORMATION ONLY - 212+00 - 212+00 - 06 LT - 18 LT - 0-3Z - 0-5 - BROWN - BROWN
LATITUDE DEG-MIN-SEC - 35 24 2.40 LONGITUDE DEG-MIN-SEC - 91 49 28.90	
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 - 100 NO. 10 - NO. 40 - NO. 80 - NO. 200 - 93</pre>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
LIQUID LIMIT - 56 PLASTICITY INDEX - 35 AASHTO SOIL - A-7-6(39) UNIFIED SOIL - % MOISTURE CONTENT - 20.1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
ACHMSC (IN) - 10.0WX ACHMBC (IN) - 3.0 	- 10.0WX - 2.0

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

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- AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HI	IGHWAY AND TRANSPORTATIO MATERIALS D		LE ROCK, ARKANSAS		
***	MICHAEL BENSON, MATERI SOIL SURVEY / PAVEMENT		***		
DATE - 02/22/17 SEQUENCE NO 10 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - WHITE, COUNTY DATE SAMPLED - 01/10/17 SAMPLED BY - THORNTON/BATES DATE AT 10					
SAMPLE FROM - TEST HO MATERIAL DESC SOIL	SURVEY - R VALUE- PAVE		'ESTED - 02/22/17		
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- 20170281 - S31 - INFORMATION ONLY - 220+00 - 06 RT - 0-5 - BROWN	- 20170282 - S32 - INFORMATION ONLY - 220+00 - 18 RT - 0-5 - BROWN	- S33 - INFORMATION ONLY - 288+00 - 06 RT - 0-5 - BROWN -		
	ac – 35 23 52.30 ac – 91 49 13.30	- 35 23 52.50 91 49 13.70	= 35 22 59.90 91 48 28.30		
1 1/2 II 3/4 I 3/8 II NO. NO. 1 NO. 4	IN. – IN. – 100 4 – 99 0 – 97 10 – 94 30 – 92	- 100 99 98 96 - 94 73	- - - - 99 - 97 - 95 - 91 78		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- ND - NP - A-4(0) - 25.3	- 24 - 09 - A-4(4) - 27.5	- 33 - 15 - A-6(10) - 24.0		
	IN) - 9.5W - - - - - - - - - -	-	- 6.0W - - - - - -		
REMARKS - W=MULTIPLE	LAYERS, X=STRIPPED, Z=A	AUGER REFUSAL			

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- AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION MATERIALS I MACUARI DENGON MATERIA	DIVISION				
MICHAEL BENSON, MATER: *** SOIL SURVEY / PAVEMENT					
DATE - 02/27/17 SEQUENCE NO 11 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS					
LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAV	DATE SAMPLED - 01/10/17 DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17 EMENT SOUNDINGS				
TEST STATUS-INFORMATION ONLYSTATION-288+00LOCATION-18 RTDEPTH IN FEET-0-5MAT'L COLOR-BROWNMAT'L TYPE-	- S35 - S36 - INFORMATION ONLY - INFORMATION ONLY - 296+00 - 296+00 - 06 LT - 18 LT - 0-5 - 0-5 - RD/BR - RD/BR 				
LATITUDE DEG-MIN-SEC - 35 22 59.80 LONGITUDE DEG-MIN-SEC - 91 48 28.40	- 35 22 51.30 - 35 22 52.70 91 48 24.90 91 48 25.70				
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 100 3/8 IN 99 NO. 4 - 97 NO. 10 - 94 NO. 40 - 91 NO. 80 - 85 NO. 200 - 68</pre>					
LIQUID LIMIT - 29 PLASTICITY INDEX - 14 AASHTO SOIL - A-6(7) UNIFIED SOIL - % MOISTURE CONTENT - 18.0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
ACHMSC (IN) ACHMBC (IN) 	- 8.5WX - 2.0 				

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

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ARKANSAS STATE HIGHWAY AND TRANSPORTATI MATERIALS	DIVISION			
MICHAEL BENSON, MATER *** SOIL SURVEY / PAVEMENT				
DATE - 02/27/17 SEQUENCE NO 12 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS				
LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAV	DATE SAMPLED - 01/10/17 DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17 TEMENT SOUNDINGS			
SAMPLE ID - S37 TEST STATUS - INFORMATION ONLY STATION - 304+00 LOCATION - 06 RT DEPTH IN FEET - 0-5 MAT'L COLOR - BROWN MAT'L TYPE - LATITUDE DEG-MIN-SEC - 35 22 43.40 LONGITUDE DEG-MIN-SEC - 91 48 25.10 % PASSING 2 IN 1 1/2 IN 3/4 IN 3/4 IN 3/8 IN NO. 4 - 100 NO. 10 - NO. 40 - NO. 80 - NO. 200 - 94 LIQUID LIMIT - 34 PLASTICITY INDEX - 16 AASHTO SOIL - UNIFIED SOIL -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
<pre>% MOISTURE CONTENT - 22.5 ACHMSC (IN)</pre>	21.6 18.4 - 8.0 			

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

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ARKANSAS STATE HIGHWAY AND TRANSPORTATI MATERIALS MICHAEL BENSON, MATER	DIVISION					
*** SOIL SURVEY / PAVEMENT						
DATE - 02/22/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - PANGBURN - FOUR MILE HILL PROJECT ENGINEER - NOT APPLICABLE DIM (OUNDER)	SEQUENCE NO 13 MATERIAL CODE - SSRVPS SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 73 DISTRICT NO 05 (SAFETY IMPVTS.)					
PIT/QUARRY- ARKANSASLOCATION- WHITE, COUNTYSAMPLED BY- THORNTON/BATESSAMPLE FROM- TEST HOLEMATERIAL DESC SOIL SURVEY- R VALUE- PAVEMENT SOUNDINGS						
SAMPLE ID - S40	- 20170291 - 20170292 - S41 - S42 - INFORMATION ONLY - INFORMATION ONLY - 320+00 - 320+00 - 06 LT - 18 LT - 0-5 - 0-5 - RD/BR - RD/BR					
LATITUDE DEG-MIN-SEC - 35 22 36.90 LONGITUDE DEG-MIN-SEC - 91 48 24.70						
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 100 3/8 IN 96 NO. 4 - 91 NO. 10 - 86 NO. 40 - 82 NO. 80 - 81 NO. 200 - 79</pre>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
LIQUID LIMIT - 45 PLASTICITY INDEX - 22 AASHTO SOIL - A-7-6(18) UNIFIED SOIL - % MOISTURE CONTENT - 20.8	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
ACHMSC (IN) ACHMBC (IN) 	- 7.0WX - 6.0XW 					
- REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=						

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

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	MATERIALS [DIVISION	JITTLE ROCK, ARKANSAS		
	ICHAEL BENSON, MATERI IL SURVEY / PAVEMENT		PORT ***		
DATE - 02/22/17 SEQUENCE NO 14 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/OUARRY - ARKANSAS					
LOCATION - WHITE, COU SAMPLED BY - THORNTON/B. SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SU	ATES	DA DA	TE SAMPLED - 01/10/17 TE RECEIVED - 01/27/17 TE TESTED - 02/22/17		
STATION LOCATION DEPTH IN FEET	 INFORMATION ONLY 328+00 06 RT 0-5 BROWN 35 22 19.80 	- S44 - INFORMATION O - 328+00 - 18 RT - 0-5 - BROWN -	- S45 NLY - INFORMATION ONLY - 336+00 - 06 LT - 0-5 - RD/BR - 50 - 35 22 12.00		
LONGITUDE DEG-MIN-SEC % PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 40 NO. 80 NO. 200	- - - 100 - 99 - 96 - 94	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- 37 - 21 - A-6(15) - 24.3	- 28 - 13 - A-6(8) - 26.2	- 82 - 56 - A-7-6(61) - 36.3		
ACHMSC (IN) ACHMBC (IN)			- 7.0WX - 2.5 		
	-		- -		

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

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ARKANSAS		AND TRANSPORTATI MATERIALS I IAEL BENSON, MATER	DIV	ISION	- LITTL	E I	ROCK, ARKANSAS
		SURVEY / PAVEMENT			REPORT	* *	*
DATE - 02/22/17 SEQUENCE NO 15 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE							
PIT/QUARRY - LOCATION - SAMPLED BY - SAMPLE FROM - MATERIAL DESC.	WHITE, COUNT THORNTON/BATE TEST HOLE		EME	INT SOUNDING	DATE RI DATE TI	ECE	PLED - 01/10/17 SIVED - 01/27/17 PED - 02/22/17
LAB NUMBER	-	20170296	-	20170297		-	20170298
SAMPLE ID	-	S46	-	S47		-	S48
TEST STATUS	-	S46 INFORMATION ONLY 336+00		INFORMATIO	N ONLY	-	INFORMATION ONLY
STATION	-	336+00	-	344+00		_	344+00
LOCATION		18 LT	-	06 RT			18 RT 0-5
	г –		-	0-5 BROWN		-	BROWN
MAT'L COLOR MAT'L TYPE	-	KD/ DK	-	DICOWIN		_	DICOWIN
	G-MIN-SEC -	35 22 12.10	-	35 22	4.50	_	35 22 5.60
		91 48 19,90					91 48 18.10
% PASSING	2 IN		-			_	
	1 1/2 IN		127			-	
	3/4 IN		÷.			-	
		100		100		_	100
	NO. 4 -	96	-	99		-	99
	NO. 10 - NO. 40 -		÷.	98 96		-	97 94
	NO. 40 -	89	_	89		_	86
	NO. 200 -			71			69
				30		_	36
LIQUID LIMIT PLASTICITY I		72 43		16		_	21
AASHTO SOIL	NDEX -	A-7-6(42)	-	A-6(9)		-	A-6(12)
UNIFIED SOIL	-	11 / 0(10)	-			-	,
% MOISTURE C		35.0	-	21.6		_	22.9
ACHMSC	(IN) -	<u> 1915</u>	_	7.5WX		_	
	-		-			-	
	-		_			_	
	_		_			_	
	-		-			-	
	-		-			-	
	_		_			_	
	-						
REMARKS - W=N - -	REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL						

-AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION					
	IICHAEL BENSON, MATER IL SURVEY / PAVEMENT		REPORT ***		
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***DATE- 02/22/17SEQUENCE NO 16JOB NUMBER- 050279MATERIAL CODE - SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR - 2014PURPOSE- SOIL SURVEY SAMPLESUPPLIER ID 1SPEC. REMARKS- NO SPECIFICATION CHECKCOUNTY/STATE - 73SUPPLIER NAME- STATEDISTRICT NO 05NAME OF PROJECT- PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER- NOT APPLICABLEPIT/QUARRY- ARKANSASLOCATION- WHITE, COUNTYDATE SAMPLED- 01/10/17					
SAMPLED BY - THORNTON/E SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SU			DATE TESTED	ED - 01/27/17 - 02/22/17	
MATERIAL DESC SOIL SC LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC	- 20170299 - S49 - INFORMATION ONLY - 352+00 - 06 LT - 0-5 - GRAY - - 35 21 57.50	- 20170300 - S50 - INFORMATION - 352+00 - 18 LT - 0-5 - GRAY	- 20 - S5 N ONLY - IN - 37 - 06 - 0- - BR - 8.30 -	FORMATION ONLY 5+00 RT	
EONGITUDE DEG-MIN-SEC % PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 40 NO. 80 NO. 200	- - - - 100 - 99 - 99 - 97	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - -	00 97 92 86 82 77	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC (IN) ACHMBC (IN)		- 29 - 14 - A-6(10) - 25.1 	- 1	8 0 -4(6) 25.5 11.0W 2.0	
REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL					

-AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWA	Y AND TRANSPORTATIO MATERIALS I		ITTLE ROCK, ARKANSAS		
	HAEL BENSON, MATER	IALS ENGINEER	PORT ***		
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***DATE- 02/27/17SEQUENCE NO 17JOB NUMBER- 050279MATERIAL CODE - SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR2014PURPOSE- SOIL SURVEY SAMPLESUPPLIER ID 1SPEC. REMARKS- NO SPECIFICATION CHECKCOUNTY/STATE - 73SUPPLIER NAME- STATEDISTRICT NO 05NAME OF PROJECT- PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER- NOT APPLICABLEPIT/QUARRY- ARKANSAS					
LOCATION - WHITE, COUNT SAMPLED BY - THORNTON/BATH SAMPLE FROM - TEST HOLE	ES	DAT DAT	YE SAMPLED - 01/10/17 YE RECEIVED - 01/27/17 YE TESTED - 02/22/17		
MATERIAL DESC SOIL SURV					
LAB NUMBER - SAMPLE ID - TEST STATUS - STATION - LOCATION - DEPTH IN FEET - MAT'L COLOR - MAT'L TYPE -	S52 INFORMATION ONLY 375+00 18 RT 0-5	S53INFORMATION ON	- S54 ILY - INFORMATION ONLY - 383+00		
LATITUDE DEG-MIN-SEC - LONGITUDE DEG-MIN-SEC -					
* PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 - NO. 10 - NO. 40 - NO. 80 -		- - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		
NO. 200 -	90	91	88		
LIQUID LIMIT - PLASTICITY INDEX - AASHTO SOIL - UNIFIED SOIL -	28 10 A-4(8)	$ \begin{array}{c} & \text{ND} \\ & \text{NP} \\ & \text{A}-4(0) \\ & & \end{array} $	- 29 - 09 - A-4(7)		
<pre>% MOISTURE CONTENT -</pre>	24.7	26.6	22.2		
ACHMSC (IN) - ACHMBC (IN) - - - - - - - - - - - - - - - - -		- 11.0W - 5.5W - - - - - -			

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER							
* * *	SOIL SURV	EY / PAVEMENT	SO	UNDING TEST	REPORT	* * *	
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***DATE- 02/22/17SEQUENCE NO 18JOB NUMBER- 050279MATERIAL CODE - SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR - 2014PURPOSE- SOIL SURVEY SAMPLESUPPLIER ID 1SPEC. REMARKS- NO SPECIFICATION CHECKCOUNTY/STATE - 73SUPPLIER NAME- STATEDISTRICT NO 05NAME OF PROJECT- PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER- NOT APPLICABLEPIT/QUARRY- ARKANSAS							
LOCATION - WHITE, SAMPLED BY - THORNTC SAMPLE FROM - TEST H	N/BATES OLE				DATE RE DATE TE	CEIVED	- 01/10/17 - 01/27/17 - 02/22/17
MATERIAL DESC SOII	SURVEY -	R VALUE- PAV	EMF	INT SOUNDINGS	5		
LAB NUMBER SAMPLE ID TEST STATUS	- 201 - S55 - INF		_			- 2017 - S57 - INFO	
STATION LOCATION DEPTH IN FEET	- 391 - 06 - 0-5	RT	-	391+00 18 RT 0-5		400+ 06 L 0-5	T
MAT'L COLOR MAT'L TYPE	– BRO	WN	-	BROWN		BROW	Ν
LATITUDE DEG-MIN-S LONGITUDE DEG-MIN-S				35 21 23 91 47 53			21 16.50 47 48.90
1 1/2			1	100		-	
3/8	IN IN 4 - 10	0	1	99 99		100	
	10 – 9 40 – 9 80 – 9	9	20 20	97 95 93		-	
	80 – 9 00 – 8		-	76		90	
LIQUID LIMIT PLASTICITY INDEX	- 25 - 08		-	24 07		- 28 - 11	
AASHTO SOIL UNIFIED SOIL	– A–	4 (4)	_	A-4(3)		A-6	(8)
% MOISTURE CONTENT		19.0	-	19.9			4.0
		. OW . O	-			- 8. - 3.	
	_		_			-	
	-		-			-	
	-		_			-	
	_		-			-	
REMARKS - W=MULTIPLE	LAYERS, X	X=STRIPPED, Z=	AUG	GER REFUSAL			

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION					
**	MICHAEL BENSON, MATE * SOIL SURVEY / PAVEMEN		REPORT ***		
DATE- 02/22/17SEQUENCE NO 19JOB NUMBER- 050279MATERIAL CODE - SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR - 2014PURPOSE- SOIL SURVEY SAMPLESUPPLIER ID 1SPEC. REMARKS- NO SPECIFICATION CHECKCOUNTY/STATE - 73SUPPLIER NAME- STATEDISTRICT NO 05NAME OF PROJECT- PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER - NOT APPLICABLEPIT/QUARRY- ARKANSASLOCATION- WHITE, COUNTYDATE SAMPLED =01/10/17SAMPLED BY- THORNTON/BATESSAMPLE FROM- TEST HOLE					
MATERIAL DESC SOI	IL SURVEY - R VALUE- PA				
STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-	- 20170308 - S58 - INFORMATION ONL - 400+00 - 18 LT - 0-5 - BROWN - SEC - 35 21 18.10 SEC - 91 47 50.10	- 408+00 - 06 LT - 0-5 - BROWN - 35 21 9	- S60 ONLY - INFO - 408+ - 18 L - 0-5 - BROW - - 35	RMATION ONLY 00 T N	
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO. NO. NO.	IN IN IN IN 99 4 - 97 10 - 96 40 - 93 80 - 92 200 - 88	- - - - 99 - 98 - 96 - 94 81	- - - 97 - 96 - 94 - 92 - 89 77		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- 29 - 11 - A-6(8) - 28.3	- 31 - 14 - A-6(10) - 21.2	- 31 - 13 - A-6 - 2	(8) 1.6	
ACHMSC ACHMBC	(IN) (IN) - - - - - - - - - - - - - -	- 8.0WX - 4.0W -	- 200		
REMARKS - W=MULTIPI - -	LE LAYERS, X=STRIPPED, Z	Z=AUGER REFUSAL			

-AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER					
*** S	SOIL SURVEY / PAVEMENT	SOUNDING TEST RE	SPORT ***		
DATE-02/22/17SEQUENCE NO20JOB NUMBER-050279MATERIAL CODE-SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR-2014PURPOSE-SOIL SURVEY SAMPLESUPPLIER ID1SPEC. REMARKS-NO SPECIFICATION CHECKCOUNTY/STATE-73SUPPLIER NAME-STATEDISTRICT NO05NAME OF PROJECT-PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER-NOT APPLICABLE					
PIT/QUARRY - ARKANSAS LOCATION - WHITE, C SAMPLED BY - THORNTON/ SAMPLE FROM - TEST HOL MATERIAL DESC SOIL S	COUNTY /bates Le	DA DA	ATE SAMPLED - 01/10/17 ATE RECEIVED - 01/27/17 ATE TESTED - 02/22/17		
LAB NUMBER	- 20170311	- 20170312	- 20170313		
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- S61	- S62 - INFORMATION C - 416+00 - 18 RT - 0-5 - BROWN	- S63 - INFORMATION ONLY - 424+00 - 06 LT - 0-5 - BROWN		
	z – 35 21 1.90 z – 91 47 41.20	- 35 21 3. 91 47 41.			
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 NO. 10 NO. 40 NO. 80 NO. 200</pre>	1. – 1. – 1. – 1. – 1. – 1. – 1. – 1. –	- - 100 - 99 - 98 - 97 - 95 - 93 83	- - - - - - - - - 99 - 99 - 91 - 77		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	- 23 - 14 - A-6(8) -	- 29 - 11 - A-6(8) -	- 30 - 13 - A-6(8)		
	- 26.6 N) - 10.0WX N) - 3.5	- 25.0 	19.9 - 9.5 - 3.5 -		
	- - - -	- - -	- - - -		
	-	-	-		

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER							
		SURVEY / PAVEMENT			REPORT	' *	* *
DATE - 02/22/17 SEQUENCE NO 21 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS							
LOCATION - SAMPLED BY - T SAMPLE FROM - MATERIAL DESC	HORNTON/BATE TEST HOLE		EME	NT SOUNDING	DATE R DATE T	EC	PLED - 01/10/17 EIVED - 01/27/17 FED - 02/22/17
LAB NUMBER	_	20170314	20	20170315		_	20170316
SAMPLE ID	_	S64		S65			S66
TEST STATUS		INFORMATION ONLY			N ONLY		
STATION		424+00		432+00 06RT		-	432+00 18 RT
LOCATION DEPTH IN FEET		18 LT 0-5	-	0-5		-	0-5
MAT'L COLOR		BROWN	-	BROWN		-	BROWN
MAT'L TYPE	-		-				
LATITUDE DEG LONGITUDE DEG	-MIN-SEC - -MIN-SEC -	35 20 54.90 91 47 37.00	#	35 20 4 91 47 3		_	35 20 45.70 91 47 32.40
	2 IN					-	
	1 1/2 IN	1.0.0	-			_	
	3/4 IN 3/8 IN	100 97	÷			-	100
	NO, 4 -		-	100		-	99
	NO. 10 -	89	50 20	99		_	99
	NO. 40 -);	98		-	97
	NO. 80 - NO. 200 -	79 65		85 69		-	84 68
	NO: 200						
LIQUID LIMIT PLASTICITY IN	- DEV -	28 12	_	27 11		_	30 14
AASHTO SOIL	-	A-6(5)	_	A-6(5)		-	A-6(7)
UNIFIED SOIL	-	, , , , , , , , , , , , , , , , , , ,	-			-	
% MOISTURE CO	NTENT -	17.0	-	21.5			22.1
ACHMSC	(IN) -	57.57	-	8.OWX		.	
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	2 55		_			-	
	() (Can		-			-	
			-			-	
			_			ಗ್	
REMARKS - W=MU -	ULTIPLE LAYEN	RS, X=STRIPPED, Z=	AUC	GER REFUSAL			
5. -							
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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER					
•	EMENT SOUNDING TEST REPORT ***				
DATE - 02/22/17 SEQUENCE NO 22 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE					
PIT/QUARRY - ARKANSAS LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE	DATE SAMPLED - 01/10/17 DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17 - PAVEMENT SOUNDINGS				
LAB NUMBER - 20170317 SAMPLE ID - S67	- 20170318 - 20170319 - S68 - S69 ONLY - INFORMATION ONLY - INFORMATION ONLY - 440+00 - 448+00 - 18 LT - 06 RT - 0-5 - 0-5 - BROWN - BROWN - 35 20 39.10 - 35 20 32.10				
LIQUID LIMIT - 32 PLASTICITY INDEX - 14 AASHTO SOIL - A-6(12) UNIFIED SOIL - % MOISTURE CONTENT - 23.2 ACHMSC (IN) - 5.5WX ACHMBC (IN) - 2.0 - - - - - - - - - - - - -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				

- AASHTO TESTS : T24 T88 T89 T90 T265
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER					
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***DATE- 02/22/17SEQUENCE NO 23JOB NUMBER- 050279MATERIAL CODE - SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR - 2014PURPOSE- SOIL SURVEY SAMPLESUPPLIER ID 1SPEC. REMARKS- NO SPECIFICATION CHECKCOUNTY/STATE - 73SUPPLIER NAME- STATEDISTRICT NO 05NAME OF PROJECT- PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER - NOT APPLICABLEPIT/QUARRY- ARKANSASLOCATION- WHITE, COUNTYDATE SAMPLED- 01/10/17SAMPLED BY- THORNTON/BATESDATE RECEIVED- 01/27/17					
SAMPLE FROM - TEST MATERIAL DESC SOI		IF- PAVEMENT SOUNDIN	DATE TESTED - 02/ GS	22/17	
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- 20170320 - S70 - INFORMATION - 448+00 - 28 RT - 0-5 - BROWN	- 20170321 _ S71 N ONLY - INFORMATIC - 456+00 - 06 LT - 0-5 - BROWN -			
LONGITUDE DEG-MIN-			19.10 91 47		
3/4 3/8 NO. NO. NO. NO.	IN IN 4 - 100 10 - 40 -	- - - - - 91	- - 100 - 99 - 99 - 98 - 97 - 94 88		
LIQUID LIMIT	- 32	- 32	- 36		
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	- 17 - A-6(14) -	- 16 - A-6(14)	- 22 - A-6(18) -		
% MOISTURE CONTENT		- 25.2	26.1		
ACHMSC ACHMBC	(IN) (IN) - - - - - - - - - - - -	- 8.0WX - 2.0 			
REMARKS - W=MULTIPI -	LE LAYERS, X=STRIPP	PED, Z=AUGER REFUSAL			

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT *** - 02/27/17 DATE SEQUENCE NO. - 24 JOB NUMBER - 050279 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 - 73 SUPPLIER NAME - STATE DISTRICT NO. - 05 NAME OF PROJECT - PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - WHITE, COUNTY DATE SAMPLED - 01/10/17 SAMPLED BY - THORNTON/BATES DATE RECEIVED - 01/27/17

SAMPLED BY - THORNTON/I SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SU	2		/EME	ENT SOUNDING	DATE I		$\frac{21}{\text{FED}} = 01$	
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	-	464+00 06 RT 0-5 BR/GR		S74 INFORMATIO 464+00 18 RT 0-5 BR/GR	N ONLY	1 E E E E E E E	472+00 06 LT 0-5 BROWN	
LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC				35 20 1 91 47 :				
<pre>% PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 4 NO. 10 NO. 40 NO. 80 NO. 200</pre>		100 93 33		100 90 40			100 99 98 96 79 70 59 41	
PLASTICITY INDEX AASHTO SOIL	-	20 A-6(17)	-	25 A-6(22)		10	23 A-7-6(11)
UNIFIED SOIL	-		-					,
% MOISTURE CONTENT				23.4			14.8	
ACHMSC (IN ACHMBC (IN		9.5WX 3.5					10.0WX	
	- - -					-		

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

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION					
***		BENSON, MATER EY / PAVEMENT			* *
DATE-02/22/17SEQUENCE NO25JOB NUMBER-050279MATERIAL CODE -SSRVPSFEDERAL AID NOTO BE ASSIGNEDSPEC. YEAR-2014PURPOSE-SOIL SURVEY SAMPLESUPPLIER ID1SPEC. REMARKS-NO SPECIFICATION CHECKCOUNTY/STATE-73SUPPLIER NAME-STATEDISTRICT NO05NAME OF PROJECT-PANGBURN -FOUR MILE HILL (SAFETY IMPVTS.)PROJECT ENGINEER -NOT APPLICABLEPIT/QUARRY-ARKANSAS-ARKANSAS					
LOCATION - WHITE, SAMPLED BY - THORNTON SAMPLE FROM - TEST HO	COUNTY /BATES			DATE REC	PLED - 01/10/17 EIVED - 01/27/17 TED - 02/25/17
MATERIAL DESC SOIL	SURVEY -	R VALUE- PAV	EMENT SOUNDIN	IGS	
TEST STATUS	- S76 - INFC - 472+	RMATION ONLY	_ S77	- ON ONLY - -	S78 INFORMATION ONLY
DEPTH IN FEET			_ 0-5	-	0 - 5
MAT'L COLOR MAT'L TYPE	-		-	-	BROWN
LATITUDE DEG-MIN-SE LONGITUDE DEG-MIN-SE				53.00 - 17.70	
1 1/2 I 3/4 I 3/8 I NO. NO. 1 NO. 1 NO. 4	N 100 N 99 4 - 98 D - 95 D - 90 D - 66		- - - 97 - 95 - 91 - 82 70		100 99 98 95 92 78 65
LIQUID LIMIT	- 37		- 23	1.77	21
PLASTICITY INDEX AASHTO SOIL	- 22		- 08		07
UNIFIED SOIL	- A-6	5(9)	- A-4(3)		A-4 (2)
% MOISTURE CONTENT	- 2	20.8	- 23.6	15	23.5
ACHMSC (I	N) -	-	- 8.5	=	
ACHMBC (I	N) -		- 3.0	-	
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	-			-	
	-			8	

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ON DEPARTMENT - LITTLE ROCK, ARKANSAS DIVISION IALS ENGINEER
SOUNDING TEST REPORT ***
SEQUENCE NO 26 MATERIAL CODE - SSRVPS SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 73 DISTRICT NO 05 (SAFETY IMPVTS.) DATE SAMPLED - 01/10/17
DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17
EMENT SOUNDINGS
- 20170330 - 20170331 - S80 - S81 - INFORMATION ONLY - INFORMATION ONLY - 586+00 - 594+00 - 18 RT - 06 LT - 0-1.5Z - 0-4Z - BROWN - BROWN
- ND - 26 - NP - 10 - $A-4(1)$ - 19.9 - 27.5
7.5W 3.0

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ARKANSAS STATE HIGHWAY AND TRANSPORTATI MATERIALS 1 MICHAEL BENSON, MATER	DIVISION
*** SOIL SURVEY / PAVEMENT	
DATE - 02/27/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - PANGBURN - FOUR MILE HILL PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAV	DATE SAMPLED - 01/10/17 DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17
LAB NUMBER- 20170332SAMPLE ID- S82TEST STATUS- INFORMATION ONLY	- 20170333 - 20170334 - S83 - S84 - INFORMATION ONLY - INFORMATION ONLY - 602+00 - 602+00 - 06 RT - 18 RT - 0-4Z - 0-2.5Z - BROWN - BROWN
LIQUID LIMIT - PLASTICITY INDEX - AASHTO SOIL - UNIFIED SOIL - % MOISTURE CONTENT - 11.4 ACHMSC (IN) ACHMBC (IN) - - - - - - - - - - - -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

ARKANSAS STATE HIGHWAY AND TRANSPORTATI MATERIALS	DIVISION
MICHAEL BENSON, MATER *** SOIL SURVEY / PAVEMENT	
DATE - 02/22/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - PANGBURN - FOUR MILE HILL PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAV	COUNTY/STATE - 73 DISTRICT NO 05 (SAFETY IMPVTS.) DATE SAMPLED - 01/10/17 DATE RECEIVED - 01/27/17 DATE TESTED - 02/22/17
LAB NUMBER - 20170335 SAMPLE ID - S85 TEST STATUS - INFORMATION ONLY STATION - 610+00 LOCATION - 06 LT DEPTH IN FEET - 0-3Z MAT'L COLOR - BROWN MAT'L TYPE - LATITUDE DEG-MIN-SEC - 35 18 8.60 LONGITUDE DEG-MIN-SEC - 91 46 16.10 % PASSING 2 IN 1 1/2 IN 3/4 IN 100 3/8 IN 96 NO. 4 - 86 NO. 10 - 81 NO. 40 - 78 NO. 80 - 74 NO. 200 - 39	- INFORMATION ONLY - INFORMATION ONLY 610+00 - 618+00 18 LT - 06 RT 0-1.8Z - 0-2Z BROWN - BROWN - 35 18 6.60 - 35 17 59.80
LIQUID LIMIT - ND PLASTICITY INDEX - NP AASHTO SOIL - A-4(0) UNIFIED SOIL - % MOISTURE CONTENT - 13.2 ACHMSC (IN) - 8.0WX ACHMBC (IN) - 2.0 - - - - - - - - - - - - -	- ND - ND - NP - NP - A-4(0) - A-4(0) - 16.4 - 10.9 8.0W 2.0W

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ARKANSAS STATE HIGHWAY AND	IRANSPORTATION DEPARTMEN MATERIALS DIVISION	T - LITTLE ROCK,	ARKANSAS
	ENSON, MATERIALS ENGINEE / / PAVEMENT SOUNDING TE		
DATE - 02/22/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAME SPEC. REMARKS - NO SPECIFICATION SUPPLIER NAME - STATE NAME OF PROJECT - PANGBURN - FOU PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - WHITE, COUNTY SAMPLED BY - THORNTON/BATES SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - F	JR MILE HILL (SAFETY IMP E	DISTRICT NO. VTS.) DATE SAMPLED DATE RECEIVED DATE TESTED	 SSRVPS 2014 1 73 05 01/10/17 01/27/17
LAB NUMBER- 20170SAMPLE ID- S88TEST STATUS- INFORSTATION- 626+0LOCATION- 06 LTDEPTH IN FEET- 0-5MAT'L COLOR- BROWNMAT'L TYPE-	- S89 MATION ONLY - INFORMAT 0 - 626+00 - 18 LT - 0-4Z	- S90 ION ONLY - INFO - 634+ - 06 R - 0-2.	RMATION ONLY 00 T 5Z
LATITUDE DEG-MIN-SEC - 35 LONGITUDE DEG-MIN-SEC - 91			17 42.80 46 11.70
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 100 3/8 IN 97 NO. 4 - 93 NO. 10 - 90 NO. 40 - 86 NO. 80 - 72 NO. 200 - 46</pre>	- - - 97 - 94 - 91 - 88 - 76 46	- - - 98 - 92 - 83 - 74 - 60 34	
LIQUID LIMIT - ND PLASTICITY INDEX - NP	- ND - NP	- ND - NP	
AASHTO SOIL - A-4(UNIFIED SOIL -	(0) = A-4(0)	A-2	-4(0)
	5.6 19.3		7.1
ACHMSC (IN) - 7.0 ACHMBC (IN) - 2.0 		- 9. - 2. - - - - - - -	
-	-	-1	

AASHTO TESTS : T24 T88 T89 T90 T265

-ESTS : :

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	MICH	(AND TRANSPORTATI MATERIALS I IAEL BENSON, MATER: SURVEY / PAVEMENT	VIC IAI	ISION S ENGINEER			
DATE - 02/ JOB NUMBER - 050 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - P PROJECT ENGINEER - N PIT/QUARRY - ARKAN	279 BE ASSI L SURVE SPECIFI TE ANGBURN OT APPI	Y SAMPLE CATION CHECK - FOUR MILE HILL			MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC	AL (EA SR (ST	NO 30 CODE - SSRVPS R - 2014 ID 1 ATE - 73 NO 05
LOCATION - WHITE SAMPLED BY - THORNT SAMPLE FROM - TEST MATERIAL DESC SOL	, COUNI CON/BATH HOLE	IS	EME		DATE RI DATE TI	ECI	PLED - 01/10/17 SIVED - 01/27/17 SED - 02/22/17
LAB NUMBER	_	20170341	4	20170342		14	20170343
		S91					
TEST STATUS							
		634+00		642+00			
LOCATION			-	06 LT		-	18 LT
DEPTH IN FEET	-	0.2.5Z		0-4.5Z			0-5
MAT'L COLOR	-	BROWN	-	BROWN		-	BROWN
			=			-	
LATITUDE DEG-MIN-							
LONGITUDE DEG-MIN-	SEC -	91 46 11.50		91 46	12.20		91 46 11.90
% PASSING 2	IN		-			-	
1 1/2	IN		-			-	
3/4	IN	100	-	100		-	100
3/8	IN, -	99	_	97		_	99
	4 -		_	90		_	91
	10 -		-	84		-	82
	40 -		-	79		-	78
	- 08		-	64 47		-	60
NO.	200 -	43		4/			44
LIQUID LIMIT	-	ND	a .	ND		-	ND
PLASTICITY INDEX	-	NP	2	NP		_	NP
AASHTO SOIL	-	A-4(0)	-	A-4(0)		-	A-4(0)
UNIFIED SOIL	-	11.6	-	19.5		-	18.4
% MOISTURE CONTENT	-	11.0					10.4
ACHMSC	(IN) -		-	8.0WX		2)	
	-		-			_	
	10		-				
			-			-	
	-		-			91) 91	
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	1		_			तः सः	
			-			<u>=</u> 7	
REMARKS = W=MULTIPI -	LE LAYEI	RS, X=STRIPPED, Z=.	AUG	ER REFUSAL			

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ARKANSAS STATE HIGHW	AY AND TRANSPORTATI MATERIALS 1		TLE ROCK, ARKANSAS
	CHAEL BENSON, MATER L SURVEY / PAVEMENT	IALS ENGINEER SOUNDING TEST REPOR	QT ***
DATE - 02/22/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE AS PURPOSE - SOIL SUR SPEC. REMARKS - NO SPECI SUPPLIER NAME - STATE NAME OF PROJECT - PANGBU PROJECT ENGINEER - NOT AP PIT/QUARRY - ARKANSAS LOCATION - WHITE, COU	VEY SAMPLE FICATION CHECK RN - FOUR MILE HILL PLICABLE	MATER SPEC. SUPPL COUNT DISTR (SAFETY IMPVTS.)	NCE NO 1 IAL CODE - RV YEAR - 2014 IER ID 1 Y/STATE - 73 ICT NO 05
SAMPLED BY - THORNTON/BA SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SUR	TES	DATE DATE	SAMPLED - 01/10/17 RECEIVED - 01/27/17 TESTED - 02/22/17 IS
SAMPLE ID TEST STATUS	- RV94 - INFORMATION ONLY		- RV96 - INFORMATION ONLY
LOCATION DEPTH IN FEET MAT'L COLOR	- 124+00 - 22RT - 0-5 - BROWN	- 172+00 - 21RT - 0-5 - BROWN	- 312+00 22RT 0-5 BROWN
MAT'L TYPE LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC	- 91 50 5.40		- - 35 22 35.70 91 48 24.80
<pre>% PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 40 NO. 80 NO. 200</pre>	- - 100 - 98 - 96 - 92 - 88	- 100 89 73 64 59 55 52 45	- - 97 - 93 - 90 - 88 - 86 - 82
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- 32 - 15 - A-6(10) -	- 28 - 12 - A-6(2) 	- 43 - 22 - A-7-6(18)
REMARKS -			

AASHTO TESTS : T24 T88 T89 T90 T265

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	WAY AND TRANSPORTATIO MATERIALS I ICHAEL BENSON, MATERI	DIVISION	ILE ROCK, ARKANSAS
	L SURVEY / PAVEMENT		T ***
DATE - 02/22/17 JOB NUMBER - 050279 FEDERAL AID NO TO BE AS PURPOSE - SOIL SUF SPEC. REMARKS - NO SPECT SUPPLIER NAME - STATE NAME OF PROJECT - PANGBU PROJECT ENGINEER - NOT AN PIT/QUARRY - ARKANSAS LOCATION - WHITE, COU SAMPLED BY - THORNTON/BU SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SU	SSIGNED RVEY SAMPLE FFICATION CHECK JRN - FOUR MILE HILL PPLICABLE INTY ATES	MATER SPEC. SUPPL COUNT DISTR (SAFETY IMPVTS.) DATE DATE DATE DATE	NCE NO 2 IAL CODE - RV YEAR - 2014 IER ID 1 Y/STATE - 73 ICT NO 05 SAMPLED - 01/10/17 RECEIVED - 01/27/17 TESTED - 02/22/17
SAMPLE ID TEST STATUS STATION	 RV97 INFORMATION ONLY 375+00 20RT 0-5 		- RV99
LATITUDE DEG-MIN-SEC		- - 35 20 16.90	- 35 17 35.50
LONGITUDE DEG-MIN-SEC	- 91 48 3.50	91 47 18.20	91 00 30.50
<pre>% PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 40 NO. 80 NO. 200</pre>	- 100 - 94 - 76 - 72 - 70 - 68	- - 92 - 91 - 91 - 90 - 87 83	- - 100 73 - 62 - 57 - 52 - 42 31
LIOUID LIMIT	- 30	- 37	– ND
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- 11 - A-6(4) -	- 24 - A-6(18) -	- NP = A - 2 - 4(0)
	-	-	-
	-		-
	-		-
	-	æ)	-
	-	-	-
	-	25 20	-
	-	-	-
REMARKS - -			

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- AASHTO TESTS : T24 T88 T89 T90 T265 ÷

	SAL Monday, February 27, 2017	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	=MULTIPLE LAY	1	comments:
		5.0	8.0WX		
		ACHMBC	ACHMSC	06 RT	172+00
		ACHMBC	ACHMSC	18 LT	164+00
		4.0	7.5WX		
		ACHMBC	ACHMSC	06 LT	164+00
		I	10.3XW		
		ACHMBC	ACHMSC	06 RT	156+00
		1	1		
		ACHMBC	ACHMSC	18 RT	156+00
		1	I		
		ACHMBC	ACHMSC	27'LT	148+00
		3.5	7.0WX		
		ACHMBC	ACHMSC	06 LT	148+00
		1	1		
		ACHMBC	ACHMSC	18 RT	140+00
		6.0W	7.0W		
		ACHMBC	ACHMSC	06 RT	140+00
		I	ł		
		ACHMBC	ACHMSC	18 LT	132+00
		3.0	7.5W		
		ACHMBC	ACHMSC	06 LT	132+00
			ı		
			ACHMSC	18 RT	124+00
			10.0WX		
			ACHMSC	06 RT	124+00
			1		
			ACHMSC	18 LT	116+00
		3.0	9.0WX		
		ACHMBC	ACHMSC	06 LT	116+00
		1	14.75W		
		ACHMBC	ACHMSC	06 RT	108+00
		1	l		
		ACHMBC	ACHMSC	18 RT	108+00
	PAVEMENT SOUNDINGS			LOC.	STA.#
	Michael Benson, Materials Engineer		73	COUNTY NO.	COUN
DATE TESTED 2/22/2017	Arkansas State Highway Transporation Department Materials Division	<i>JOB:</i> 050279 <i>JOB NAME:</i> PANGBURN - FOUR MILE HILL (SAFETY IMPVTS.)	050279 Pangburn - Fou	4 <i>ME</i> : P/	JOB: JOB N
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Monday, February 27, 2017

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

		A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	
STA.#	LOC.	COLUMN DE LA COLUMN DE LA COLUMN	PAVEMENT SOUNDINGS
172+00	18 RT	ACHMSC	ACHMBC
		I	
180+00	06 LT	ACHMSC	ACHMBC
100+00	18 I T	ACHMSC	ACHMARC
100.00	c r		
188+00	18 RT	ACHMSC	ACHMBC
		ſ	
188+00	06 RT	ACHMSC	ACHMBC
		9.0WX	
196+00	06 LT	ACHMSC	ACHMBC
		8.0WX	2.5
204+00	06 RT	ACHMSC	ACHMBC
		•	
204+00	18 RT	ACHMSC	ACHMBC
212+00	T 60	ACHMSC	ACHMBC
		10.0WX	2.0
212+00	18 LT	ACHMSC	ACHMBC
		т	
220+00	06 RT	ACHMSC	
		9.5W	
220+00	18 RT	ACHMSC	
		1	
288+00	06 RT	ACHMSC	
		6.0W	
288+00	18 RT	ACHMSC	ACHMBC
		1	
296+00	18 LT	ACHMSC	ACHMBC
		()	
296+00	06 LT	ACHMSC	ACHMBC
		8.5WX	2.0
304+00	06 RT	ACHMSC	
		1	
304+00	18 RT	ACHMSC	
		8.0	
312+00	06 RT	ACHMSC	
		3	
commonte.	- 8	MULTIPLE LAY	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL
PAVEMENT SOUNDINGS

Monday, February 27, 2017

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Monday, February 27, 2017	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	- 1	comments:
	8.5		
	ACHMSC ACHMBC	06 LT	488+00
	E		
	- ACHMSC ACHMBC	18 LT	472+00
	10.0WX		
	- ACHMSC ACHMBC	06 LT	472+00
	1		
	r ACHMSC ACHMBC	18 RT	464+00
	r ACHMSC ACHMBC	06 RT	464+00
	8.0WX 2.0		
	- ACHMSC ACHMBC	06 LT	456+00
	1		
	- ACHMSC ACHMBC	18 LT	456+00
	10.0WX 3.0		
	F ACHMSC ACHMBC	06 RT	448+00
	1		
	F ACHMSC ACHMBC	28 RT	448+00
	1		
	- ACHMSC ACHMBC	18 LT	440+00
	5.5WX		
	- ACHMSC ACHMBC	06 LT	440+00
	r ACHMSC	18 RT	432+00
	ACHMSC	06RT	432+00
	- ACHMSC	18 LT	424+00
	9.5 3.5		
	- ACHMSC ACHMBC	06 LT	424+00
	10.0WX 3.5		
	r ACHMSC ACHMBC	06 RT	416+00
	1		
	r ACHMSC ACHMBC	18 RT	416+00
	- ACHMSC ACHMBC	18 LT	408+00
	8.0WX		
	- ACHMSC ACHMBC	06 LT	408+00
VEMENT SOUNDINGS	PA	LOC.	STA.#

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of 5	

Monday, February 27, 2017

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STA #	100		PAVEMENT SOUNDINGS
		and the second se	
400700			
		1	
586+00	06 RT	ACHMSC	ACHMBC
		6.0W	2.25W
586+00	18 RT	ACHMSC	ACHMBC
		ľ	
594+00	06 LT	ACHMSC	ACHMBC
		7.5W	3.0
594+00	18 LT	ACHMSC	ACHMBC
		1	
602+00	18 RT	ACHMSC	ACHMBC
		I	
602+00	06 RT	ACHMSC	ACHMBC
		9.0WX	1.5
610+00	06 LT	ACHMSC	ACHMBC
		8.0WX	2.0
610+00	18 LT	ACHMSC	ACHMBC
		I	1
618+00	06 RT	ACHMSC	ACHMBC
		8.0W	2.0W
626+00	06 LT	ACHMSC	ACHMBC
		7.0W	2.0X
626+00	18 LT	ACHMSC	ACHMBC
		1	
634+00	06 RT	ACHMSC	ACHMBC
		9.5	2.0
634+00	18 RT	ACHMSC	
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642+00	06 LT	ACHMSC	
		8.0WX	