#### ARKANSAS DEPARTMENT OF TRANSPORTATION



#### SUBSURFACE INVESTIGATION

STATE JOB NO.		100941									
FEDERAL AID PROJE	FEDERAL AID PROJECT NO. STPF-0011(47)										
	HWY. 62 INTE	ERS. IMPVTS. (PIGGO	ΓΤ) (S)								
STATE HIGHWAY	62	SECTION	20								
IN		CLAY		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 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 March 9, 2018

TO:

Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT:

Job No. 100941

Hwy. 62 Inters. Impvts. (Piggott)(S)

Route 62 Section 20

Clay 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 improvements at 4 intersections on Highway 62 in Piggott. 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 low plasticity clavey sands. Cross-sections are not complete, but demonstrate 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. There were no slides observed within the project limits.

Additional earthwork recommendations will be made upon request when plans are further developed and cross-sections are complete.

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 Pocahontas.

2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.2	94.8
Binder Course	4.1	95.9
Base Course	3.9	96.1

Michael C. Benson

Materials Engineer

MCB:pt:bjj Attachment

CC:

State Constr. Eng. - Master File Copy

District 10 Engineer

System Information and Research Div.

G. C. File

#### MICHAEL BENSON, MATERIALS ENGINEER

\*\*\* SOIL SURVEY STRENGTH TEST REPORT \*\*\*

DATE - 02/09/2018 SEQUENCE NO. - 1

JOB NUMBER - 100941 MATERIAL CODE - SSRV

SPEC. YEAR - 2014

SUPPLIER ID. - 1

COUNTY/STATE - 11

DISTRICT NO. - 10

JOB NAME - HWY.62 INTERS. IMPVTS. (PIGGOT) (S)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

BEGIN JOB - END JOB LESS THAN 5

RESILIENT MODULUS

STA. 206 + 00 10174

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REMARKS -

AASHTO TESTS : T190

# ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No. Date Sampled: Date Tested: Name of Project:	100941 1/10/18 February 6, 2018 HWT. 62 INTERS. IMPVTS. (PIGGOTT)(S)	Material Code Station No.: Location:	SSRVPS 206+00 12'LT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 11 Name: CLAY THORNTON/FRAZIER 20180064 RV969	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-6 (11) 2
1. Testing Inforn			
	Preconditioning - Permanent Strain > 5% (Testing - Permanent Strain > 5% (Y=Yes of Number of Load Sequences Completed (0-	r N=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):		3.95 3.95 3.94 3.95 0.01 8.03 0.00 8.03 12.16 97.64
	Maximum Dry Density (pcf): 95% of MDD (pcf): In-Situ Moisture Content (%):		108.3 102.9 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 (%):		3150.00 16.7 122.93 105.33 16.4
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	11030(S	sc)^-0.10524(S3)^0.20087
8. Comments	,—————————————————————————————————————		
9. Tested By:	GW	Date: February 6, 2018	

# ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Name of Project: Job No. Date Tested: Date Sampled: HWT. 62 INTERS. IMPVTS. (PIGGOTT)(S) 1/10/18 100941 February 6, 2018 Station No.: Material Code Location: 206+00 12'LT SSRVPS

County: Code: 11 Name: CLAY
Sampled By: THORNTON/FRAZIER

Sample ID: Sampled By: Lab No.: RV969 20180064 THORNTON/FRAZIER Depth: **AASHTO Class:** 

0-5

A-6 (11)

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

							Г											_	_	_
Sequence 15	Sequence 14	Sequence 13	Sequence 12	Sequence 11	Sequence 10	Sequence 9	Sequence 8	Sequence 7	Sequence 6	Sequence 5	Sequence 4	Sequence 3	Sequence 2	Sequence 1	UNIT	DESIGNATION		PARAMETER		
2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	6.0	6.0	psi	S <sub>3</sub>		Pressure	Confining	Chamber
10.0	8.0	6.0	4.0	2.0	10.0	8.0	6.0	4.0	2.0	10.0	8.0	6.0	4.0	2.0	psi	S <sub>cyclic</sub>	Stress	Axial	Maximum	Nominal
113.1	90.4	67.8	46.7	25.0	115.2	91.9	68.7	47.0	25.1	116.5	93.3	70.1	47.4	25.3	lbs	P <sub>max</sub>	Load	Max. Axial	Applied	Actual
106.5	86.1	65.0	43.9	22.2	107.6	86.7	66.0	44.3	22.3	108.1	87.3	66.6	44.7	22.6	lbs	P <sub>cyclic</sub>		Cyclic Load	Applied	Actual
6.7	4.2	2.8	2.8	2.8	7.6	5.1	2.7	2.7	2.8	8.4	6.0	3.5	2.7	2.7	lbs	Pcontact	Load	Contact	Applied	Actual
9.3	7.4	5.6	3.8	2.1	9.5	7.6	5.7	3.9	2.1	9.6	7.7	5.8	3.9	2.1	psi	S <sub>max</sub>	Axial Stress	Max.	Applied	Actual
8.8	7.1	5.3	3.6	1.8	8.8	7.1	5.4	3.6	1.8	8.9	7.2	5.5	3.7	1.9	psi	S <sub>cyclic</sub>	Stress	Cyclic	Applied	Actual
0.5	0.3	0.2	0.2	0.2	0.6	0.4	0.2	0.2	0.2	0.7	0.5	0.3	0.2	0.2	psi	Scontact	Stress	Contact	Applied	Actual
0.00691	0.00544	0.00399	0.00259	0.00127	0.00630	0.00486	0.00357	0.00230	0.00109	0.00594	0.00453	0.00318	0.00205	0.00102	'n	H <sub>avg</sub>	and 2	LVDT 1	Recov Def.	Average
0.00086	0.00068	0.00050	0.00032	0.00016	0.00078	0.00060	0.00044	0.00029	0.00014	0.00074	0.00056	0.00040	0.00026	0.00013	in/in	Ę			Strain	Resilient
10,174	10,448	10,752	11,199	11,561	11,282	11,796	12,218	12,693	13,563	12,024	12,737	13,816	14,391	14,659	psi	, M,			Modulus	Resilient

REVIEWED BY	TESTED BY
	GW
DATE	DATE
	February 6, 2018

# ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

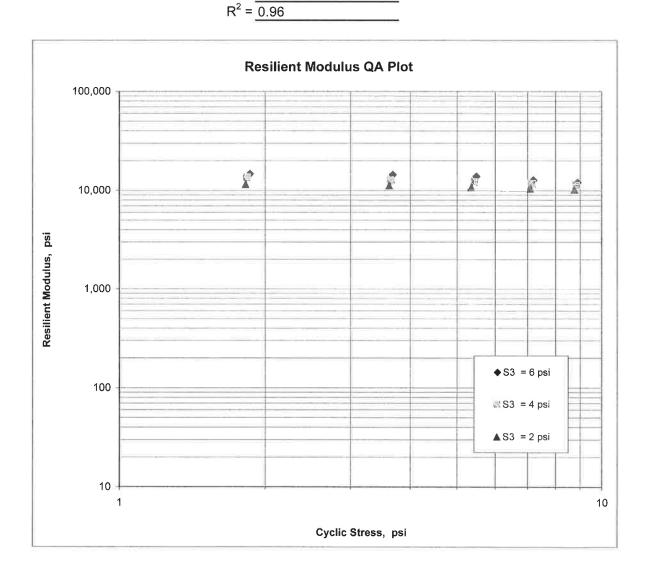
Job No.100941Material Code SSRVPSDate Sampled:1/10/18Station No.: 206+00Date Tested:February 6, 2018Location: 12'LT

Name of Project: HWT. 62 INTERS. IMPVTS. (PIGGOTT)(S)
County: Code: 11 Name: CLAY

Sampled By:THORNTON/FRAZIERDepth: 0-5Lab No.:20180064AASHTO Class: A-6 (11)Sample ID:RV969Material Type (1 or 2): 2LATITUDE:LONGITUDE:

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

K1 = 11,030 K2 = -0.10524 K5 = 0.20087



JOB: 100941

Arkansas State Highway Transporation Department

JOB NAME: HWY.62 INTERS. IMPVTS.(PIGGOT)(S)

**Materials Division** 

COUNTY NO. 11 DATE TESTED

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
206+00	12'LT	0-5	BROWN	94	90	78	73	E S 72	36	18	A-6(11)	RV969	3))
206+00	12 LT	0-5	BROWN	94	90	78	73	72	36	18	A-6 (11)	RV969	
101+00	05 RT	0-5	BROWN	93	86	77	68	58	21	05	A-4(3)	S957	17.6
101+00	12 RT	0-5	BROWN	88	75	58	43	36	ND	NP	A-4(2)	S958	16.1
105+00	05 LT	0-5	BR/GR	99	97	93	90	84	25	07	A-4(4)	S959	22.1
105+00	12 LT	0-5	BR/GR	96	92	85	77	67	23	06	A-4(2)	S960	20.3
201+00	05 RT	0-5	BROWN	86	79	71	58	45	19	04	A-4(1)	S961	17.1
201+00	12 RT	0-5	BR/GR	95	91	82	65	49	18	03	A-4(1)	S962	16.4
206+00	05 LT	0-5	BROWN	100			1186	95	36	16	A-6(16)	S963	31.4
206+00	12 LT	0-5	BROWN	99	99	94	88	86	29	11	A-6(8)	S964	26.4
400+00	10 RT	0-5	BROWN	99	99	96	91	87	28	10	A-4(7)	S965	20.2
404+00	10 LT	0-5	BROWN	96	91	82	74	68	22	05	A-4(1)	S966	16.9
500+00	05 RT	0-5	BROWN	94	90	84	78	76	29	11	A-6(7)	S967	22.7
504+00	05 LT	0-5	BROWN	-	(B.A)	Section 1	H					S968	16.1

DATE TESTED

2/9/2018

Arkansas State Highway Transporation Department

Materials Division

 $JOB\ NAME$ : HWY.62 INTERS. IMPVTS.(PIGGOT)(S)

100941

JOB:

Michael Benson, Materials Engineer

PAVEMENT SOUNDINGS AGG. BASE CRS CL-7 AGG. BASE CRS CL-7 3.0 1.0 AGG. BASE CRS CL-7 ACHMBC ACHIMBC PCCP PCCP 1.0 8.25 8.0 0.9 ACHMSC 8.0W ACHIMSC ACHMSC ACHIMSC ACHMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC 7.0WX 7.5WX 8.0W 7.0W 6.0W 6.5W 4.0W COUNTY NO. 11 05 RT 12 RT 12 RT 05 LT 12 LT 05 RT 10 RT 05 RT 05 LT 05 LT 12 LT 10 LT STA.# LOC. 101+00 400+00 105+00 105+00 201+00 206+00 101+00 201+00 206+00 404+00 500+00 504+00

Wednesday, March 07, 2018

#### MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CLAY, SAMPLED BY - THORNT SAMPLE FROM - TEST	941 BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CHECK TE WY.62 INTERS. IMPVTS.(PI OT APPLICABLE ISAS COUNTY CON/FRAZIER	MATERI SPEC. SUPPLI COUNTY DISTRI GGOT)(S)  DATE S DATE F	ICE NO 1 EAL CODE - SSRVPS YEAR - 2014 EER ID 1 E/STATE - 11 ECT NO 10  SAMPLED - 01/10/18 RECEIVED - 01/12/18 FESTED - 02/09/18
LAB NUMBER  SAMPLE ID  TEST STATUS  STATION  LOCATION  DEPTH IN FEET  MAT'L COLOR  MAT'L TYPE  LATITUDE DEG-MIN-	- 101+00 - 05 RT - 0-5 - BROWN - SEC - 36 23 21.40		- 105+00 - 05 LT - 0-5 - BR/GR - 36 23 18.90
3/4	IN IN IN IN 100 IN 99 4 - 93 10 - 86 40 - 77 80 - 68	90 11 42.40  100 - 99 - 88 - 75 - 58 - 43 36	90 11 39.30 - - - 100 - 99 - 97 - 93 - 90 84
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC AGG. BASE CRS CL-7	(IN) - 8.0W	- ND - NP - A-4(2) - 16.1	- 25 - 07 - A-4(4) - 22.1 - 7.5WX - 9.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

1 3

AASHTO TESTS : T24 T88 T89 T90 T265

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#### MICHAEL BENSON, MATERIALS ENGINEER

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

LAB NUMBER	DATE - 02/ JOB NUMBER - 100 FEDERAL AID NO - TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CLAY, SAMPLED BY - THORNT SAMPLE FROM - TEST MATERIAL DESC SOI	941 BE ASSI L SURVE SPECIFI TE WY.62 I OT APPL ISAS COUNTY CON/FRAZ HOLE	Y SAMPLE CATION CHECK NTERS. IMPVTS.(P) ICABLE GIER			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT  DATE SAM DATE REC DATE TES	NO 2 CODE - SSRVPS AR - 2014 ID 1 FATE - 11 NO 10  PLED - 01/10/18 EIVED - 01/12/18 TED - 02/09/18
TEST STATUS							
STATION - 105+00 - 201+00 - 201+00 - 201+00 - 12 RT  DEPTH IN FEET - 0-5							
LOCATION				L 55			
DEPTH IN FEET - 0-5 - 0-				540			
MAT'L COLOR MAT'L TYPE - BR/GR BROWN				-		-	
MAT'L TYPE - 36 23 19.00 - 36 23 11.40 - 36 23 11.40  LONGITUDE DEG-MIN-SEC - 90 11 39.10 90 11 39.50 90 11 39.50  % PASSING 2 IN 100 - 100 - 100 - 3/8 IN 100 - 98 - 98 - 98 - 98 - 98 - 98 - 98 -				:76		-	
LATITUDE DEG-MIN-SEC - 36 23 19.00 - 36 23 11.40 - 36 23 11.40  LONGITUDE DEG-MIN-SEC - 90 11 39.10 90 11 39.50 90 11 39.50  * PASSING 2 IN		_	211, 011	220	Diconii	-	Dit, Oit
LONGITUDE DEG-MIN-SEC - 90 11 39.10 90 11 39.50 90 11 39.50  % PASSING 2 IN 100 100 - 100		SEC -	36 23 19.00	-	36 23 1	- 11 40 -	36 23 11.40
* PASSING 2 IN							
1 1/2 IN  3/4 IN  3/4 IN  100 - 100  3/8 IN 100 - 98  NO. 4 - 96  NO. 10 - 92 - 79  NO. 40 - 85  NO. 80 - 77  - 58  NO. 200 - 67  LIQUID LIMIT - 23  PLASTICITY INDEX - 06  AASHTO SOIL - A-4(2) - A-4(1)  UNIFIED SOIL -  * MOISTURE CONTENT - 20.3  ACHMSC (IN) 7.0WX							
3/4 IN 100						( <del></del>	
3/8 IN 100						-	
NO. 4 - 96			100	-			
NO. 10 - 92 - 79 - 91 NO. 40 - 85 - 71 - 82 NO. 80 - 77 - 58 - 65 NO. 200 - 67 - 45 - 49  LIQUID LIMIT - 23 - 19 - 18 PLASTICITY INDEX - 06 - 04 - 03 AASHTO SOIL - A-4(2) - A-4(1) UNIFIED SOIL - A-4(2) - A-4(1) WNIFIED SOIL - 7.0WX	· · · · · · · · · · · · · · · · · · ·			-		100	
NO. 40 - 85 - 71 - 82  NO. 80 - 77 - 58 - 65  NO. 200 - 67 45 49  LIQUID LIMIT - 23 - 19 - 18  PLASTICITY INDEX - 06 - 04 - 03  AASHTO SOIL - A-4(2) - A-4(1) - A-4(1)  UNIFIED SOIL - 20.3 17.1 16.4  ACHMSC (IN) 7.0WX				2		<u>-2</u>	
NO. 80 - 77 - 58 - 65 NO. 200 - 67 45 49  LIQUID LIMIT - 23 - 19 - 18 PLASTICITY INDEX - 06 - 04 - 03 AASHTO SOIL - A-4(2) - A-4(1) A-4(1) UNIFIED SOIL - 20.3 17.1 16.4  ACHMSC (IN) 7.0WX						200	
NO. 200 - 67 45 49  LIQUID LIMIT - 23 - 19 - 18  PLASTICITY INDEX - 06 - 04 - 03  AASHTO SOIL - A-4(2) - A-4(1) - A-4(1)  UNIFIED SOIL - 17.1 16.4  ACHMSC (IN) 7.0WX				₹.			
LIQUID LIMIT - 23 - 19 - 18 PLASTICITY INDEX - 06 - 04 - 03 AASHTO SOIL - A-4(2) - A-4(1) - A-4(1) UNIFIED SOIL - 17.1 16.4  ACHMSC (IN) 7.0WX				77/			
PLASTICITY INDEX       -       06       -       04       -       03         AASHTO SOIL       -       A-4(2)       -       A-4(1)       -       A-4(1)         UNIFIED SOIL       -       -       -       -       -       17.1       16.4         ACHMSC       (IN) -       -       -       7.0WX       -       -       -	NO.	200 -	6 /		45		49
AASHTO SOIL - A-4(2) - A-4(1) - A-4(1) UNIFIED SOIL 20.3 17.1 16.4  ACHMSC (IN) 7.0WX	LIQUID LIMIT		23	20	19	: =	18
UNIFIED SOIL 20.3 - 17.1 - 16.4  ACHMSC (IN) 7.0WX	PLASTICITY INDEX	~	06	-	04	-	03
% MOISTURE CONTENT - 20.3 17.1 16.4  ACHMSC (IN) 7.0WX		2	A-4(2)		A-4(1)	7.55 1705	A-4(1)
ACHMSC (IN) 7.0WX	UNIFIED SOIL	==		973 420		12	
, ,	% MOISTURE CONTENT	15	20.3		17.1		16.4
AGG. BASE CRS CL-7 (IN) 8.0 8.0 8.0 8.0	ACHMSC	(IN) -	***		7.OWX	<b>=</b> 0	
	AGG. BASE CRS CL-7	(IN) =		-	8.0	*	
				200		=	
		-		-		-	
		_		-		:=:: :=::	
		= = = = = = = = = = = = = = = = = = = =				==:	
		=		-		-	
		~		4		=1	
		×		-		<b>34</b> 7	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

.

#### MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - 100 FEDERAL AID NO TO	BE ASSI L SURVE SPECIFI ATE WY.62 I OT APPL USAS COUNTY FON/FRAZ HOLE	Y SAMPLE CATION CHECK NTERS. IMPVTS.(PI ICABLE SIER			SPEC. YI SUPPLIED COUNTY/S DISTRICT DATE SA DATE RE DATE TE	E CODE EAR R ID. ETATE F NO. MPLED CEIVED	- SSRVPS - 2014 - 1 - 11
	T POKVE						
LAB NUMBER	-	20180056		20180057	15	20180	058
SAMPLE ID	~	S963		S964			
TEST STATUS	-		_				RMATION ONLY
STATION		206+00	-	206+00		306+0	
LOCATION		05 LT	=	12 LT		05 RT	
DEPTH IN FEET		0-5 BROWN	-	0 - 5	2.	0-5	т
MAT'L COLOR MAT'L TYPE	_	BROWN	**	BROWN	(4	BROWN	ı
LATITUDE DEG-MIN-	SEC -	36 23 7.80	=	36 23	8.10	36	23 2.70
LONGITUDE DEG-MIN-						90	
					33.70		11 31.50
% PASSING 2			-		-	•	
·-	IN		_		-	•	
	IN		_	100			
·	4 -	100	-	99			
	10 -	100	-	99	-		
	40 -		-	94	-	-	
NO.			_	88	-		
	200 -	95		86			
T TOUTD I TMT		2.5		0.0			
LIQUID LIMIT PLASTICITY INDEX	-	36 16	-	29		5 5	
AASHTO SOIL	-	A-6(16)	2	11 A-6(8)	2 2	e R	
UNIFIED SOIL	_	A-0(10)	=	A-6(6)	9	6	
% MOISTURE CONTENT	· _	31.4	¥	26.4	-		
				20.1			
ACHMSC	(IN) -	7.0W	-	#:#:#:		-	
ACHMBC	(IN) -	1.0	_			_	
	3 <del>4</del> 3		_			_	
	100		-			-	
			-			_	
	-		-			_	
			-			-	
	-		-			-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

170.

#### MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STATE NAME OF PROJECT - HE PROJECT ENGINEER - NO PIT/QUARRY - ARKANG LOCATION - CLAY, SAMPLED BY - THORNT SAMPLE FROM - TEST IN	941 BE ASSIC SPECIFIC TE WY.62 II OT APPLE SAS COUNTY ON/FRAZ HOLE	Y SAMPLE CATION CHECK NTERS. IMPVTS.( ICABLE IER	PIGGOT		SPEC. YEAR SUPPLIER COUNTY/ST DISTRICT  DATE SAM DATE RECOUNTE TEST	CODE - SSRVPS AR - 2014 ID 1 TATE - 11 NO 10  PLED - 01/10/18 EIVED - 01/12/18
MATERIAL DESC SOI  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  PASSING 2  1 1/2	SEC =	20180059  INFORMATION ON 306+00 12 RT 0-5 BROWN 36 23 2.50	- ILY -	20180060 S965 INFORMATIO 400+00 10 RT 0-5 BROWN	- N ONLY -	20180061 S966 INFORMATION ONLY 404+00 10 LT 0-5 BROWN 36 22 55.30 90 11 12.20
3/4 3/8 NO. NO. NO. NO. NO. LIQUID LIMIT PLASTICITY INDEX	IN IN 4 - 10 - 40 - 80 -			100 99 99 96 91 87 28		100 96 91 82 74 68 22
AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC PCCP AGG. BASE CRS CL-7	(IN) - (IN) - (IN) -	5.5.5 6.55 5.65		A-4(7) 20.2 6.5W 8.25 1.0	-	A-4(1)  16.9  6.0W  6.0  3.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

<u>.</u>

#### MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 02/0 JOB NUMBER - 1000 FEDERAL AID NO TO D PURPOSE - SOID SPEC. REMARKS - NO S SUPPLIER NAME - STAN NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKAN	941 BE ASSION SURVETSPECIFION FOR THE WY.62 IN TAPPLO	Y SAMPLE CATION CH NTERS. IM	ECK	:GO	I) (S)	MATER SPEC. SUPPL COUNT	ENCE NO. EIAL CODE YEAR LIER ID. EY/STATE	31 38	2014 1
LOCATION - CLAY, SAMPLED BY - THORNT SAMPLE FROM - TEST	COUNTY ON/FRAZ					DATE	SAMPLED RECEIVED TESTED	-	01/10/18 01/12/18 02/09/18
MATERIAL DESC SOI		Y - R VA	LUE- PAVE	EME	NT SOUNDING		TEDIED		02/05/10
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	-	20180062 S967 INFORMAT: 500+00 05 RT 0-5 BROWN	ION ONLY	=	20180063 S968 INFORMATIC 504+00 05 LT 0-5 BROWN	ONL	- - - - - - -		
LATITUDE DEG-MIN-S				+	36 22 5		-		
LONGITUDE DEG-MIN-S		90 11	15.00		90 11	14.80			
% PASSING 2 1 1/2 3/4	IN IN IN			7) 7) 4)			ise ise ng		
3/8		100 94		-			100		
	10 - 40 -	90 84		20) 20) 20)			02 02 12		
	80 <b>-</b> 200 <b>-</b>	78 76		æ8			≈ <u>∈</u>		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	- - -	11		8 8 8 8					
% MOISTURE CONTENT	_	22.7			16.1				
ACHMSC AGG. BASE CRS CL-7	(IN) -	8.0W 8.0		-	4.0W 7.0		- - -		
	3. <del>5</del> U.S			(=)			-		
	15			-			-		
	78			-			-		
	7.55 7.55			(mm)			-		
	7E			=			-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

<u>...</u>

#### MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - FEDERAL AID NO PURPOSE - SPEC. REMARKS - SUPPLIER NAME - NAME OF PROJECT PROJECT ENGINEER PIT/QUARRY - 2 LOCATION - 0 SAMPLED BY - TI SAMPLE FROM - 2	SOIL SUF NO SPECT STATE - HWY.62 - NOT AN ARKANSAS CLAY, COUN HORNTON/FI TEST HOLE	SSIC RVE FIC PPL NTY RAZ	Y SAMP CATION NTERS. ICABLE IER	IM:	ECK PVTS.				MATER SPEC. SUPPI COUNT DISTR DATE DATE DATE	ENCE NO. EIAL CODE YEAR LIER ID. EY/STATE EICT NO. SAMPLED RECEIVED TESTED	 2014 1 11 10 01/10/18
MATERIAL DESC	SOIL SU	RVE	Y - RI	ESIS	TANCE	R-VA	LUE AC	CTUAL	RESUL	TS	
LAB NUMBER		-	20180	064		-				_	
SAMPLE ID		_	RV969			_				_	
TEST STATUS		-	INFOR	MAT]	ON OI	1TA -				-	
STATION		-	206+0	0		_				-	
LOCATION		-	12 LT			-				-	
DEPTH IN FEET		_	0-5			_				-	
MAT'L COLOR		-	BROWN			_				_	
MAT'L TYPE		-				_				_	
LATITUDE DEG-	-MIN-SEC	-	36	23	8.1	0 –				-	
LONGITUDE DEG-	-MIN-SEC	-	90	11	35.7	0					
% PASSING 2	2 IN.	_				2				75 15	
	1/2 IN.					-				::	
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	3/8 IN.		99			-				2 <del>0</del>	
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	NO. 80	_	73			-					
	NO. 200	-	72								
LIQUID LIMIT		_	36								
PLASTICITY INI	¬₽Ψ	_	18			-				_	
AASHTO SOIL	JEA	_		(11	١	-				_	
UNIFIED SOIL		_	A-0	(11,	,	=				-	
% MOISTURE CON	ITENT	_				-				-	
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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