ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

IN		UNION		COUNTY
STATE HIGHWAY	82	SECTION	5	
	AIRPORT DR.	- HWY. 82B (WIDENIN	NG) (S)	
FEDERAL AID PROJE	CT NO. A	CNHPP-0070(36)		
STATE JOB NO.		CA0706		

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

August 4, 2016

TO:

Mr. Rick Ellis, Bridge Engineer

SUBJECT:

the field identifications.

Job No. CA0706

Airport Dr. - Hwy. 82B (Widening) (S)

Route 82 Section 5 **Union County**

Transmitted herewith are a brief summary of the geology and site conditions, D50 analysis test results, and the logs of the borings conducted for the structures and approaches of the above referenced project. The samples obtained by the Standard Penetration Tests were brought to the laboratory and visually classified by experienced lab personnel to confirm

Preliminary design submitted by Bridge Division indicates that all bents will be founded on piling. The intermediate bent footings were inaccessible due to the steep slope and high water present during drilling. Subsurface conditions do not vary widely across the site.

A slope stability analysis was performed for this project, utilizing 2:1 bridge end slopes. Seismic analysis included a coefficient of horizontal acceleration of 0.093 as provided by Bridge Design. This configuration provides for a satisfactory Factor of Safety for seismic and static conditions.

If you have any questions concerning these recommendations, please contact the Geotechnical Section.

Michael C. Benson

Materials Engineer

MCB:rpt:mlg

State Construction Engineer - Master File Cop

District 7 Engineer

G.C. File

GEOLOGY AND SITE CONDITIONS Job No. CA0706

Airport Dr. – Hwy. 82B (Widening) (S) <u>Union County</u> Route 82 Section 5

Site Conditions

The existing Route 82 bridge is a 3 span bridge that crosses Cornie Bayou. The bridge is constructed of concrete cast-in-place decking supported by octagonal trestle pilings with concrete caps. There are remains of timber pilings under the bridge from a previous structure. There are concrete endwalls at both ends of the bridge with additional timber endwalls, downslope from the west bridge end, supporting riprap for erosion control. The guardrails are steel leading up to the bridge with concrete posts and steel tubing crossing the bridge. Overhead power lines, underground fiber optic lines, and an underground gas line all parallel the left side of the bridge. Cornie Bayou has a small water shed that runs from north to south. Both sides of the bridge are moderately vegetated and residents exist to the left and right of the project alignment.

Site Geology

The project is located in Eocene Claiborne Deposits (map symbol Tc). The Claiborne is composed of medium to very fine-grained sands, silts, and silty clays. The sands tend to be light to dark-gray, white, brown, or red, depending on the degree of weathering. The silts and clays are light to dark-gray and sometimes variegated. Intervals enriched in carbonaceous material are dark-brown to black. Silts in the Claiborne are usually clayey, the clays are normally silty or sandy, and lignite beds are also common in this formation. The deposits recovered at the job site most likely represents the Cockfield Formation of the Claiborne Group, which is composed of sand, silt, carbonaceous clay, and lignite. The thickness of the Claiborne ranges from a thin edge to 1,500 feet.

Subsurface Conditions

Based on the results of the borings, the subsurface stratigraphy may be generalized as follows:

0 to 25 Feet*:

Moist, loose to medium dense, light gray sand.

25 to 100 Feet:

Moist, very stiff to very hard, light gray sandy clay to moist, very dense, light

gray clayey sand.

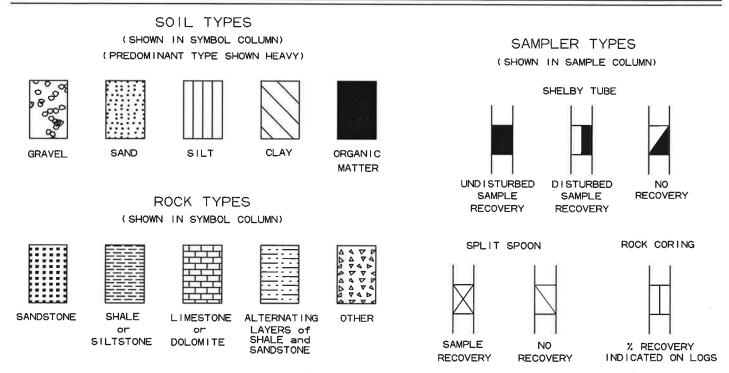
100 to 100.1 Feet: Cemented Sand.

* Water was encountered at approximately 8.9 feet

D₅₀ AGGREGATE ANALYSIS FOR SCOUR CALCULATIONS

-77		Job No.	CA0706		
Creek Name	Station	Sample Type	Location	Depth (FT)	Aggregate Size (D50) (IN)
Cornie Bayou	196+10	Creek Bank	10' LT of C.L.	N/A	0.0035

LEGEND



TERMS DESCRIBING CONSISTENCY OR CONDITION

GRANU	LAR SOIL		CLAY	CLA	Y-SHALE		SHALE
Nº Value	Density	N° Value	Consistency	'N' Value	Consistency	Nº Value	Consistency
0-4	Very Loose	0-1	Very Soft	0-1	Very Soft		
5-10	Loose	2-4	Soft	2-4	Soft	31-60	Soft
11-30	Medium Dense	5-8	Medium Stiff	5-8	Medium Stiff	0ver 60	1.0
31-50	Dense	9-15	Stiff	9-15	Stiff	More than	2'
0ver 50	Very Dense	16-30	Very Stiff	16-30	Very Stiff	Penetrati	on
		31-60	Hard	31-60	Hard	in 60 Blov	vsı Medium Hard
		0ver 60	Very Hard	Over 60	Very Hard	Less than	2'
						Penetratio	on
						in 60 Blow	vs: Hard

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

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

adding the bottom two numbers for example: $\frac{6}{8-9} \Rightarrow 8+9=17 blows/ft$. The "N" Value corrected to 60% efficiency (N₆₀) can be obtained by multiplying N_f by the hammer correction factor published on the boring log.

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORI PAGE		NO. 1)F 3					
JOB NO		_	CA0706 Union County		DATE					, 201	6		
JOB NA	AME:		Airport Dr Hwy. 82B (Widening)(S)		ТҮРЕ	OF D	RILLIN		•				
			Route 82 Section 5		Но	llow	Stem	Aug				ash	
STATIO			195+68.5		EQUI	MEN	T:		C	ME 7	750		
LOCAT			8' Left of Construction Centerline									1 00	
			oty Campbell J DEPTH: 100.1		HAMN	AER (CORRE	CTION	N FAC	CTOR:		1.23	_
D		S	DEFIR; 100.1	T					-		\neg		
E	s	A											
P	Y M	М	DESCRIPTION OF MATERIAL	SOIL				<u> </u>	Ŧ.	WS		%	%
<u>T</u>	В	P	BESSIAN FISH OF IMATERIAL	GROUP		H.		IGF	CC	3T0	بِـ	T C	R Q
Н	0	E			STIC	OIS	E E	WE	PER	OF I	41-9	R	Ď
FT.	ᅵᅵ		SURFACE ELEVATION: 204.3		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
	.:::::		SOLUTION LONG			D`	11	Э.	Ť				
$\vdash \dashv$													
5		X	Moist, Very Loose, Light Gray Sand							2-:			
		\rightarrow											
										1			
10		XI								6-	,		
	ľ												
			Moist, Medium Dense, Light Gray Silty Sand										
			Wolst, Weddin Bense, Light Gray Gitty Gand										
15													
		X								6-1			
L_ J		\rightarrow	Moist, Medium Dense, Light Gray Sand with							0-	΄		
:			Some Clay										
L 4													
20										c			
		X								16-			
$\vdash \downarrow$. •			
L ∜			Moist, Dense, Light Gray Sand										
⊢ ↓													
25	X								Ī	10	,		
<u>├</u> - ∤		\times								13-			
⊢ - \	//								J				
<u> </u>													
$\vdash \dashv$	//												
30	//		Moist, Very Stiff, Light Gray Sandy Clay							5			
$\vdash \dashv$		X								10-2			
$\vdash \dashv$													
\vdash													
<u> </u>													
35 K	DNO												
REMA	ベバン	•											

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORI PAGI		10. 1 2 ()F 3					
JOB N		_	CA0706 Union County		DATE				_	, 201	6		\neg
	IAME:		Airport Dr Hwy. 82B (Widening)(S)		TYPE	OF D	RILLIN		,	,			
			Route 82 Section 5				Stem		er - 1	Rotar	y W	ash	
STATI	ION:		195+68.5		EQUII			J		ME 7			
LOCA	TION:	1	8' Left of Construction Centerline										
LOGG	ED BY	: C	oty Campbell		HAM	MER (ORRE	CTION	V FAC	CTOR:		1.23	
COM	PLET	ION	DEPTH: 100.1										
D E P	S Y	S A M	DESCRIPTION OF MATERIAL					T	FT.	WS		%	%
T H	M B O	P L E	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	"MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	T C R	R Q D
FT,			SURFACE ELEVATION: 204.3		PLA LIM	% N	LIQ	DR	LBS	NO.	PER		
40		X	Moist, Very Dense, Light Gray Sand							30-3	35		
 45		X	Moist, Dense, Light Gray Clayey Sand							10 18-2	28		
50		X	Moist, Very Dense, Light Gray Sand							15 30-3 15 21-6 (10)	36 30 ")		
 		X	Moist, Very Hard, Light Gray Sandy Clay							19 29-3			
65		X	Moist, Very Dense, Light Gray Clayey Sand							16 22-3			
		X	Moist, Very Dense, Light Gray Sand							6 38-4	17		
REM	ARKS	:											

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORI PAGE		NO. 1	OF 3				
JOB NO	_	_	CA0706 Union County		DATE:		<u> </u>		_	, 2016		_
JOB NA	AME:		Airport Dr Hwy. 82B (Widening)(S)		ТҮРЕ	OF D	RILLIN		,	,		
			Route 82 Section 5					Aug		Rotary W	ash	
STATIC			195+68.5 8' Left of Construction Centerline		EQUIF	MEN	T:		С	ME 750		
LOCAT LOGGE			o Lett of Construction Centenine		HAMN	ΛFR (CORRE	CTION	N FAC	TOR.	1.23	
			J DEPTH: 100.1		THE COURT	LLIC	JOILLES	01101	1710	31010.	1.23	
D	s	S	· ·									
E P	Y	A							Ţ	Š.	%	%
-	М	M P	DESCRIPTION OF MATERIAL	SOIL				CHI	CU.F	COW	Т	R
н	ВО	L		GROUP		IST	le	WEI	ER (H. N.	C R	Q D
FT.	Ľ	E S	CUREACE ELEVATIONI, 204.2		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.		
1 1,		7	SURFACE ELEVATION: 204.3		E J	- %		Ω	T	19		_
 -[`		Δ								22-39		
-+												
	$\backslash \backslash$											
75	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		Maint Van Hand Linkt One Condu Class									
	$\backslash \backslash$	X	Moist, Very Hard, Light Gray Sandy Clay							19 22-44		
		\triangle								22-44		
	$) \langle$											
	$\backslash \backslash$											
80	1			ar I						15		
-+	N	\triangle								21-27		
— - \	//		Moist, Hard, Light Gray Clay with Some Sand									
			Wolst, Hard, Eight Gray Glay With Golfie Gand									
85												
		\bigvee								23		
		\triangle								24-26		
			Moist, Hard, Light Gray Sandy Clay									
90	1									17		
- 4		\times								31-34		
	V		Moist, Very Hard, Light Gray Clay with Some									
- -\	//		Sand									
95												
33	11	$ egthinspace{1.5em} $								19		
	//	\triangle								26-34		
			Moist, Hard, Light Gray Sandy Clay with Some									
			Lignitic Clay									
100												
			Boring Terminated							60 (0")		
405												
105 REMA	BK¢											_
INLIVIA		•	at a									

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORI PAGE		NO. 2	OF 3					
JOB N		_	CA0706 Union County		DATE			_		8, 20	16		
JOB N	AME:		Airport Dr Hwy. 82B (Widening)(S)		ТҮРЕ	OF D	RILLIN			<i>,</i>			
1			Route 82 Section 5		Ho	llow	Stem	Aug	er -	Rotai	ry W	ash	
STATI	ION:		196+77.5		EQUIF	PMEN	T:		C	ME '	750		
LOCA			17' Left of Construction Centerline										
			Coty Cambell and Paul Campbell		HAMN	MER (CORRE	CTIO	N FAC	CTOR:		1.23	
COM	PLET	$\overline{}$	DEPTH: 100.1										
D D	s	S											
E P	Y	A M							Ŧ.	۸S		%	%
T	M	P	DESCRIPTION OF MATERIAL	SOIL GROUP		١.,		GH	CO.	20		T	R
Н	В О	L		GROUP		IST	le.	WEI	ER	FB	Ζ̈́	C R	Q D
L-T	Ľ	E S	011754.05 51 51 11 11 11 11 11 11 11 11 11 11 11		PLASTIC LIMIT	% MOIST	LIQUID LIMIT	8	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.		<u> </u>	SURFACE ELEVATION: 202.2		II II	%	33	ũ		Ž	-E		
<u> </u>													
_		∇	Moist, Loose, Light Gray Sand							3			
5		\triangle	Wolst, Loose, Light Gray Sand							3-	4		
													- 1
													- 1
H		∇		8						2			
10		\triangle								4-	6		
	ä												
			Wet, Loose, Light Gray Sand *										
												-	
15		abla								4	.		
\vdash		\triangle								6-1	10		- 1
			Moist, Medium Dense, Light Gray Sand with										
			Some Clay										
20													
20										5	,		
— ·		Δ								11-	14		
= +			Moist, Medium Dense, Light Gray Sand										
-			The state of the s										
25													
		\bigvee								5			
	//	\triangle								6-2	22	1	
	//		Moist, Very Stiff, Light Gray Sandy Clay										
	//		, ,										
30													
~		\bigvee								13			
	l l l l	\triangle								23-	31		
			Moist, Very Dense, Light Gray Silty Sand										
			, ,,,,										
35													
	ARKS	: *	Encountered water at 8.9' below ground level.										

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORI PAGI		NO. 2	OF 3					
JOB N		_	CA0706 Union County		DATE					8, 20	16		
	IAME:		Airport Dr Hwy. 82B (Widening)(S)				RILLIN		2	J, 20			
1			Route 82 Section 5				Stem		er -	Rotar	v W	ash	
STATI	ION:		196+77.5		EQUI			5		ME 7	-		
	TION:		17' Left of Construction Centerline			11127				,,,,,,	20		
			Coty Cambell and Paul Campbell		 HAMN	иer (CORRE	CTION	N FA(CTOR:		1.23	
			DEPTH: 100.1										
D		S											
ΙĒ	S	Ă											
P	Y M	М	DESCRIPTION OF MATERIAL	COTT				l⊑	FT	M.S		%	%
T	B	Р	DESCRIPTION OF MATERIAL	SOIL GROUP		r iš		ΙĞΪ	CO]]		T C	R Q
Н	l o l	닏				SIS		WE	ER)F.E	6-IN.	R	Ď
FT.	L	E S	OUDEAGE ELEVATION COOC		PLASTIC LIMIT	% MOIST.	LIQUID	RY	LBS PER CU.FT	NO. OF BLOWS	PER (
× ×		3	SURFACE ELEVATION: 202.2			<u>%</u>	22	Ω			$\overline{}$	_	
L -		X								31-4			
										31-	ີ		
			Moist, Very Dense, Light Gray Sand										
			_										
40											- 1		
	111	\bigvee								10			
	1111	\triangle						ĺ		20-	35		
	1111		Moist, Very Dense, Light Gray Clayey Sand										
			moist, very benes, fight cray elayer early										
H													
45	777									14	ı١		
<u> </u>		X								23-			
			Moist, Very Dense, Light Gray Sand with Trace										
_ =			Gravel										
50													
		XI								18-3			
		\hookrightarrow	_							10-	ا ۵		
			Moist, Hard, Light Gray Sandy Clay										
55													
	1111									17			
	1111									25-4	16		
-	111		Moist, Very Dense, Light Gray Clayey Sand										
- =	111		wolst, very Dense, Light Gray Clayey Saila					7			\vee		
	1111												
60	11/1									17	,		
<u> </u>		\times								34-4			
ᆫᆚ										J			
			Moist, Very Hard, Light Gray Sandy Clay										
65													
	11	\bigvee								20			
	//	\triangle								21-2	24		
	//		Moist, Hard, Light Gray Clay										
	11		moiot, riara, Light Oray Olay										
H	$\backslash \backslash$												
70	\overline{Z}	ᆛ											
REMA	ARKS	: *	Encountered water at 8.9' below ground level.										

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		l.		NO. 2)E 3					
JOB N		_			PAGE	_	3 (OF 3	_	9 201	6		-
			CA0706 Union County Airport Dr Hwy. 82B (Widening)(S)		DATE:		DHIDI		ne z	8, 201	0		
JOB N	AIVIE:		Route 82 Section 5				RILLIN Stem		ar .	Dotor	, 337,	ach	
CT AT	ONE		196+77.5					Aug		-		4811	
STATI					EQUIF	'MEN	Τ:		C	ME 7	30		
LOCA			17' Left of Construction Centerline		77.13.63	(ED.	SOBBE	OTIO	ITA	OT O D		1.23	
			oty Cambell and Paul Campbell J DEPTH: 100.1		HAMN	AEK (CORREC	JION	VFAC	JOK:		1,23	
	FLEI		DEF 111, 100.1			_					-1	1	_
D E P T H	SYMBOL	SAMPLE	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% T C R	% R Q D
FT.		S	SURFACE ELEVATION: 202.2		PI	%	77				_		
	1	X								12			
		\leftarrow								25-3	30		
	1		Moist, Hard, Light Gray Clay with Some Sand										
	//												
75	1												
	111	\bigvee								15			
	1911	\triangle								21-3	31		
			Moist, Very Dense, Light Gray Sand with Clay										
			, , , , , ,										
80													
80	44									18			
		\triangle								24-3	36		
-			Moint Hard Light Croy Clay								- 1		
	//		Moist, Hard, Light Gray Clay										
	//										- 1		
85	//									14			
		X								22-2			
	$\langle \cdot \rangle$												
	$\backslash \backslash$												
	$\backslash \backslash$												
90	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$												
	//	X								17 24-3			
	//	\hookrightarrow								24-3	ا ۳		
	//		Moist, Hard, Light Gray Sandy Clay										
	$\backslash \backslash$												
95	//	Specific											
	//	V								14			
	$\backslash \backslash$	\triangle								19-3	34		
	$\backslash \backslash$												
— –	//												
-	//												
100	7.7	_	Cemented Sand	-				_		60	+		_
			Boring Terminated							(1"			
105													
REMA	ARKS	S: *	Encountered water at 8.9' below ground level.										

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

October 29, 2015

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: CA0706

Airport Dr. - Hwy. 82B (Widening) (S)

Route 82 Section 5 Union County

Transmitted herewith are the requested Soil Survey, Strength Data, and Resilient Modulus test results for the above referenced job. The project consists of widening approximately 6.0 miles of Highway 82 to 4 lanes with a painted median. Samples were obtained in the existing travel lanes, shoulder and ditch line.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of non-plastic sands to moderately plastic sandy clay. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction.

The preliminary cross sections indicate that the maximum embankment height is approximately 12 feet. All soft unstable organic material should be undercut prior to embankment construction, anticipated to be no more than two feet. The embankment may be constructed using locally available material with a 3:1 slope configuration.

The proposed cut slopes are acceptable as shown in the currently available cross sections.

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 Malvern.
- 2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.2	94.8
Binder Course	4.4	95.6
Base Course	4.0	96.0

Materials Engineer

MCB:pt:bjj Attachment

cc: State Constr. Eng. – Master File Copy

District 7 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 - 10/23/2015	SEQUENCE NO 2
JOB NUMBER - CA0706	MATERIAL CODE - SSRVPS
	SPEC. YEAR - 2014
	SUPPLIER ID 1
	COUNTY/STATE - 70
	DISTRICT NO 07
JOB NAME - AIRPORT DR HWY.82B (WIDENING)	(S)
**********	************
* STATION LIMITS	R-VALUE AT 240 psi *
***********	************
BEGIN JOB - END JOB	9
RESILIENT MODULUS	
STA.123+00	10670
STA.203+00	8366

12150

8720

REMARKS -

**

STA.259+00

STA.379.00

AASHTO TESTS : T190

JOB: JOB NAME: HOPE 6TH ST. RECONSTRUCTION (S) CA0706

Arkansas State Highway Transporation Department

Materials Division

DATE TESTED 10/9/2015

COUNTY NO.		70			Michael Benson, Materials Engineer
STA.# LOC.	LOC.				PAVEMENT SOUNDINGS
099+00	15' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		3.5W	Ī	ſ	7.0
099+00	24' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		1	ï	1	
099+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.75W	3.5	5.5	•
107+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		12.5WX	4.0	6.0	7.0
107+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		11.0WX	ı	Ĭ	•
107+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		ï	Ĺ	ï	•
115+00	18' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		4.0W	9.0W	8.0	
115+00	27' RT	ACHMSC	ACHMBC	AGG.BASE CRS, CL7	
		3.5	9.25	ī	
115+00	37' RT	ACHMSC	ACHMBC	AGG,BASE CRS, CL7	
			31.0	1	
123+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		12.0W	2.5	6.25	ı
123+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.0W	Ĭ	ī	5.0
123+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		F.	E	ŧ	L
131+00	18' RT	ACHMSC	ACHMBC		
	2				
131+00	2/ 2/	3.5	9.0W		
131+00	37' RT	ACHMSC	ACHMBC		
		ţ,	ij		
139+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		10.0WX	3.0	6.0	ť
139+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		6.0W	E.	ı	7.0
TO SHOW THE PERSON	- Company	MILITARIO INCIDENTIALI PROPERTIES	NOT THE REPORT OF THE PERSON NAMED IN COLUMN 1 IN COLU		

comments: W=MULTIPLE LAYERS, X=STRIPPED

)				
31A.# 1	700.				FAVEMENT SOUNDINGS
139+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		1	•	1	3
147+00	18' RT	ACHMSC	ACHMBC		
		5.0	8.0W		
147+00	27' RT	ACHMSC	ACHMBC		
		3.5	8.0W		
147+00	36' RT	ACHMSC	ACHMBC		
		9	3		
155+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		9.0WX	5.0W	6.0	
155+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.5W	1		7.0
155+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		1		1	in the second se
163+00	35'RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		1	1	1	
163+00	27' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		4.0W	9.0W	1	
163+00	18' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		3.5WX	9.5WX	6.0	
171+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		7.5W	11	1	6.0
171+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		ä	1		
171+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		13.25W	3.5	6.0	
179+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.0WX	3.5	6.0	
179+00	15' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		3.75	1		6.0
179+00	27' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		ť		I	
187+00	06' LT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		7.0W	3.0	8.0	
187+00	15' LT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		3.5W	1.0	8.0	
195+00	06' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		ï	i		
comments:	- 1	V=MULTIPLE LAYE	W=MULTIPLE LAYERS, X=STRIPPED		Tuesday October 27 2015
commen					Tuesday, October 27, 2015

comments:

STA.# LOC.	C.				PAVEMENT SOUNDINGS
195+00 15	15' RT	ACHMSC	AGG.BASE CRS. CL7	7	
		5.0W	5.0		
203+00 27	27' LT	ACHMSC	AGG.BASE CRS. CL7	7	
		1	1		
203+00 15	15' LT	ACHMSC	AGG.BASE CRS. CL7	.7	
		5.0W	6.0		
211+00 15	15' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		4.0W			5.0
211+00 27	27' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		•	4	1	in the second se
219+00 06	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		7.5WX	2.5WX	5.0	în
219+00 15	15 ¹ LT	ACHMSC	ASHMBC	PCCP	AGG.BASE CRS. CL7
		4.0W	315	•	6.0
219+00 27	27 ' LT	ACHMSC	ASHMBC	PCCP	AGG.BASE CRS. CL7
)1			ä
227+00 06	06' RT	ACHMSC	ASHMBC	PCCP	AGG.BASE CRS. CL7
		6.5W	4.25	6.0	í
227+00 15	15' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		5.0W	3	1	7.0
227+00 27	27' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		3	31	Ü	1
235+00 06	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		7.0W	3.0W	5.5	i
235+00 15	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		4.5W	(1	I	6.0
235+00 27	27' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		1	1		•
243+00 25	25' RT	ACHMSC	1	PCCP	AGG.BASE COARSE CL7
		1	ACHMBC		
243+00 15	15' RT	ACHMSC	ACHMBC	PCCP	
		5.0W	ACHMBC ACHMBC	1	AGG.BASE COARSE CL7
	06' RT	ACHMSC	ACHMBC ACHMBC		AGG.BASE COARSE CL7
243+00 06		10.0WX	ACHMBC ACHMBC ACHMBC	PCCP	AGG.BASE COARSE CL7 6.0 AGG.BASE CRS. CL7
	06' LT		ACHMBC ACHMBC ACHMBC ACHMBC	PCCP 6.5	AGG.BASE COARSE CL7 6.0 AGG.BASE CRS. CL7
		ACHMSC	ACHMBC ACHMBC ACHMBC ACHMBC ACHMBC	PCCP 6.5 PCCP	AGG.BASE COARSE CL7 AGG.BASE CRS. CL7 AGG.BASE COARSE CL7
		ACHMSC 9.5W	ACHMBC ACHMBC ACHMBC ACHMBC ACHMBC ACHMBC	PCCP 6.5 PCCP 6.0	AGG.BASE COARSE CL7 6.0 AGG.BASE CRS. CL7 AGG.BASE COARSE CL7
	15' LT	ACHMSC 9.5W ACHMSC	ACHMBC ACHMBC ACHMBC 4.0WX ACHMBC 3.5	PCCP 6.5 PCCP PCCP	AGG.BASE COARSE CL7 6.0 AGG.BASE CRS. CL7 AGG.BASE COARSE CL7 AGG.BASE CRS. CL7

comments: W=MULTIPLE LAYERS, X=STRIPPED

STA.#	LOC.				PAVEMENT SOUNDINGS
251+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		1	1		1
259+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.25WX	4.0X	6.25	
259+00	15' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		5.5W	1	6.0	
259+00	27' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		1	()		
267+00	18' LT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		12.0W	12.0W		
267+00	27' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		5.0W	1		7.0
267+00	38' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		1	1	3	
275+00	25' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS, CL7
		1	1	1	
275+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		9.5WX	2.5WX	6.25	(**)
275+00	15' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		5.5W	1		6.0
283+00	27' LT	ACHMSC	AGG.BASE CRS. CL7		
		î	1		
283+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		7.5WX	4.25	6.0	1
283+00	15' LT	ACHMSC	AGG.BASE CRS. CL7		
		7.25W	3.0		
291+00	15' RT	ACHMSC	AGG.BASE CRS. CL7		
		13.0W	ī		
291+00	27' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		Ĭ	•	1	
299+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		7.5W	2.5X	6.0	I
299+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		4.5W	ī	*	6.0
299+00	25' LT	ACHMSC	ACHMBC		
		Ĭ			
307+00	15' RT	ACHMSC	ACHMBC		
		7.5WX	7.0WX		
NAME AND ADDRESS OF THE PERSONS AND ADDRESS OF T		-MI II TIDI E I AVE	W=MIIITIDIE I AVERS Y=STRIDDED		

comments: W=MULTIPLE LAYERS, X=STRIPPED

STA.#	LOC.				PAVEMENT SOUNDINGS
307+00	25' RT	ACHMSC	ACHMBC		
		1	1		
315+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
2) - -				1
	; !	11.5W	1.5X	5.25	a l
315+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		7.25W	\$ 1 6	1	5.0
323+00	25' RT	ACHMSC	ASHMBC	PCCP	AGG.BASE CRS. CL7
		Ü	3	J	
323+00	06' RT	ACHMSC	ASHMBC	PCCP	AGG.BASE CRS. CL7
		8.0WX	3.5X	6.5	ĵi .
323+00	15' RT	ACHMSC	ASHMBC	PCCP	AGG.BASE CRS. CL7
		5.5W	1		6.0
331+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		10.0W	3.0W	6.0	
331+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		5.25W	31	1	5.0
340+00	15' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		5.5VV	1	3	5.0
340+00	25' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		ï			
347+00	06' LT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		9.5W	2.5	10.0	
347+00	15' LT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
355+00	06' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		10.0WX	3.0WX	7.0	
355+00	15' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		4.5W	1	7.0	
363+00	15' LT	ACHMSC	AGG.BASE CRS. CL7		
		3.0W	6.0		
363+00	06' LT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		8.5WX	4.0	7.0	
371+00	35'RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
		ı	1	1	
371+00	18' RT	ACHMSC	AGG.BASE CRS. CL7		
		6.0W	8.0		
	1	10 E I VAE	W-MIIITIDIEIAVERS Y-STRIDDED		

comments: W=MULTIPLE LAYERS, X=STRIPPED

403+00	403+00	0	403+00	395+00	395+00		387+00		387+00	379+00		379+00		379+00	371+00
15' RT	06' RT	:	25' RT	15' LT	06	1	15' RT	-	06' RT	25' LT		15' LT		06' LT	27' RT
ACHMSC 2.0W	ACHMSC 7.0WX	1	ACHMSC	ACHMSC	7.0W	1.5	ACHMSC	6.0W	ACHMSC	ACHMSC	2.0W	ACHMSC	6.0W	ACHMSC	ACHMSC 5.25W
AGG.BASE CRS. CL7 5.0	ASCMBC 1.5	1	AGG BASE CRS CL7	ASCMBC	2.0	1.5	ACHMBC	3.0	ACHMBC	ACHMBC	1.0	ACHMBC	2.5	ACHMBC	AGG.BASE CRS. CL7 6.0
	AGG.BASE CRS. CL7 6.0		2.0	AGG.BASE CRS, CL7	15.0	7.0	AGG.BASE CRS, CL7	8.0	AGG.BASE CRS, CL7	AGG.BASE CRS. CL7	9.0	AGG.BASE CRS. CL7	8.0	AGG.BASE CRS, CL7	

JOB NAME: HOPE 6TH ST. RECONSTRUCTION (S)

Materials Division

COUNTY NO. 70 **DATE TESTED** 10/9/2015

Michael Benson, Materials Engineer

COUN	II NO.	70	DAIE IESI	ED 1	0/9/2	2015								
STA.#	LOC. I	DEPTH	COLOR	#4	#10	#40 E	#80	#200 E S	L.L.	P.I.	SC	OIL CLASS	<i>LAB</i> #:	%MOISTURE
123+00	25' LT	0-5	BROWN	99	96	95	94	7.1	22	06		A-4(2)	RV524	
203+00	27' LT	0-5	BROWN	96	94	93	90	85	29	12		A-6(9)	RV525	
259+00	27' RT	0-5	BROWN	100	99	99	98	87	28	09		A-4(7)	RV526	
379+00	25' LT	0-5	BROWN	95	94	94	92	53	29	13		A-6(4)	RV527	
099+00	06' RT	0-5	BR/GR	99	99	98	91	61	22	05		A-4(1)	S420	21.9
099+00	15' RT	0-5	BR/GR	97	96	92	68	46	ND	NP		A-4 (0)	S421	17.8
099+00	24' RT	0-5	BROWN	99	98	95	87	55	20	05		A-4 (0)	S422	17.4
107+00	06' LT	0-5	BR/GR	97	90	77	69	54	29	12		A-6 (4)	S423	32.1
107+00	15' LT	0-5	BR/GR	97	92	87	56	41	20	05		A-4 (0)	S424	20.9
107+00	25' LT	0-2Z	BROWN	83	67	57	44	28				NO TEST	S425	4
115+00	18' RT	0-5	GRAY	99	99	97	83	64	18	04		A-4 (0)	S426	21.2
115+00	27' RT	0-5	BR/GR	98	96	93	80	60	22	06		A-4(1)	S427	17.1
115+00	37' RT	0-5	BROWN	99	99	97	90	7.0	22	05		A-4(1)	S428	13
123+00	06' LT	0-5	BR/GR	10000	100	99	95	77	25	80		A-4 (4)	S429	20.7
123+00	15' LT	0-5	GRAY	96	93	88	74	58	22	07		A-4 (1)	S430	23.9
123+00	25' LT	0-5	BROWN	99	99	97	92	73	28	11		A-6 (6)	S431	26.7
131+00	18' RT	0-5	BR/GR	98	98	95	86	57	25	08		A-4 (2)	S432	18
131+00	27' RT	0-5	BR/GR	97	94	91	76	49	24	08		A-4 (1)	S433	20
131+00	37' RT	0-5	BROWN	99	98	96	82	53	24	08		A-4 (1)	S434	18.7
139+00	06' L T	0-5	BROWN	99	99	99	90	63	21	05		A-4 (1)	S435	21
139+00	15' LT	0-5	BROWN	99	96	92	78	62	19	04		A-4 (0)	S436	17.5
139+00	25' LT	0-5	BROWN	99	97	96	87	66	26	09		A-4 (4)	S437	18.9
147+00	18' RT	0-5	BR/GR	99	99	98	87	51	28	09		A-4 (2)	S438	23.3
147+00	27' RT	0-5	BR/GR	99	.97	93	80	52	29	11		A-6 (3)	S439	27
147+00	36' RT	0-5	BROWN	98	92	86	76	63	28	11		A-6 (4)	S440	22.5
155+00	06' LT	0-5	BROWN	97	93	83	75	42	ND	NP		A-4 (0)	S441	14.4

STA.#	LOC. 1	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
155+00	15' LT	0-5	BR/GR	97	95	91	73	40	ND	NP	A-4 (0)	S442	12.2
155+00	25' LT	0-5	BROWN	98	95	92	77	45	ND	NP	A-4 (0)	S443	13.2
163+00	18' RT	0-5	BR/GR	99	98	95	77	48	ND	NP	A-4 (0)	S444	16.4
163+00	27' RT	0-5	BR/GR	98	96	94	82	59	18	02	A-4 (0)	S445	19
163+00	35'RT	0-5	BROWN	95	87	80	65	43	ND	NP	A-4 (0)	S446	7
171+00	06' LT	0-5	GRAY	99	97	94	89	57	18	03	A-4 (0)	S447	15.8
171+00	15' LT	0-5	GRAY	99	98	95	80	49	23	07	A-4 (1)	S448	15.6
171+00	25' LT	0-5	BROWN	88	84	81	72	45	ND	NP	A-4 (0)	S449	6.8
179+00	06' RT	0-5	BROWN	99	97	94	85	46	ND	NP	A-4 (0)	S450	10.9
179+00	15' RT	0-5	BROWN	99	97	95	73	45	ND	NP	A-4 (0)	S451	13
179+00	27' RT	0-5	BROWN	99	98	97	89	57	17	02	A-4 (0)	S452	8.4
187+00	06' LT	0-5	BROWN	93	89	83	72	49	21	05	A-4(0)	S453	16
187+00	15' LT	0-5	BROWN	99	99	97	77	52	16	01	A-4(0)	S454	12.5
195+00	06' RT	0-5	GRAY	97	95	92	87	59	ND	NP	A-4(0)	S455	14.8
195+00	15' RT	0-5	GRAY	97	96	94	84	61	18	03	A-4(0)	S456	19
203+00	15' LT	0-5	BROWN	97	94	90	79	70	29	17	A-6(9)	S457	23.3
203+00	27' LT	0-5	BROWN	100	bo B			97	58	37	A-7-6(40)	S458	30.2
211+00	15' RT	0-2Z	BROWN	95	92	89	71	43			NO TEST	S459	14.2
211+00	27' RT	0-5	BROWN	95	93	92	86	56	ND	NP	A-4(0)	S460	5.4
219+00	06' LT	0-5	BR/RD	92	87	82	78	55	23	05	A-4(0)	S461	19
219+00	15' LT	0-5	BR/RD	98	94	91	75	50	28	15	A-6(4)	S462	18.8
219+00	27 ' LT	0-5	BROWN	97	96	95	91	65	25	07	A-4(2)	S463	12.6
227+00	06' RT	0-5	GRAY	95	95	94	91	75	26	10	A-4(5)	S464	26.8
227+00	15' RT	0-5	GRAY	99	98	95	83	63	21	05	A-4(1)	S465	19.9
227+00	27' RT	0-5	BR/GR	99	98	95	89	78	29	15	A-6(9)	S466	22.1
235+00	06' LT	0-5	BROWN	98	97	95	92	75	24	09	A-4(4)	S467	22.8
235+00	15' LT	0-5	BR/GR	97	94	89	87	67	ND	NP	A-4(0)	S468	22.7
235+00	27' LT	0-5	BROWN	99	99	99	96	80	26	09	A-4(5)	S469	23.7

STA.#	LOC. DEPTI	H COLOR	#4	#10	# 40	#80	#200 E S -	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
243+00	06' RT 0-5	GRAY	93	91	91	89	68	24	07	A-4(2)	S470	23.2
243+00	15' RT 0-5	BR/GR	99	97	94	78	56	ND	NP	A-4(0)	S471	16.9
243+00	25' RT 0-5	BROWN	97	95	88	74	51	21	04	A-4(0)	S472	19.7
251+00	06' LT 0-5	RD/BR	99	98	95	92	65	26	09	A-4(3)	S473	21.5
251+00	15' LT 0-5	RD/BR	99	99	99	93	62	31	14	A-6(6)	S474	22.4
251+00	25' LT 0-5	BROWN	91	84	81	75	65	25	09	A-4(3)	S475	15.9
259+00	06' RT 0-5	BROWN	99	98	95	91	77	20	04	A-4(0)	S476	21.6
259+00	15' RT 0-5	BROWN	99	98	95	73	57	19	05	A-4(0)	S477	23
259+00	27' RT 0-5	BROWN	99	99	99	95	80	25	07	A-4(4)	S478	29.1
267+00	18' LT 0-5	BROWN	97	95	94	88	73	25	09	A-4(4)	S479	21.1
267+00	27' LT 0-5	BR/GR	99	99	98	93	79	22	07	A-4(3)	S480	20.8
267+00	38' LT 0-5	BR/GR	92	87	83	79	66	23	06	A-4(2)	S481	17.3
275+00	06' RT 0-5	BR/GR	100	99	99	97	69	25	10	A-4(4)	S482	20.6
275+00	15' RT 0-5	BROWN	99	98	97	84	56	ND	NP	A-4(0)	S483	19.1
275+00	25' RT 0-5	BROWN	98	96	94	90	57	21	02	A-4(0)	S484	14.2
283+00	06' LT 0-5	BR/GR	99	98	96	93	71	26	07	A-4(3)	S485	27.9
283+00	15' LT 0-5	BR/GR	97	95	95	79	61	19	04	A-4(0)	S486	22
283+00	27' LT 0-5	BR/GR	88	81	74	67	55	22	04	A-4(0)	S487	18.9
291+00	15' RT 0-5	BROWN	96	92	90	73	45	20	03	A-4(0)	S488	19.4
291+00	27' RT 0-5	BROWN	100	99	99	97	58	ND	NP	A-4(0)	S489	11.8
299+00	06' LT 0-5	BROWN	99	98	97	96	64	27	09	A-4(3)	S490	26.5
299+00	15' LT 0-5	BR/GR	96	95	93	80	55	19	04	A-4(0)	S491	21.4
299+00	25' LT 0-5	BROWN	100	97	93	89	52	25	07	A-4(1)	S492	16.2
307+00	15' RT 0-5	BR/GR	99	99	98	79	40	21	05	A-4(0)	S493	21.5
307+00	25' RT 0-5	BROWN	99	96	94	77	55	25	10	A-4(3)	S494	14.1
315+00	06' LT 0-5	BROWN	98	97	96	90	61	ND	NP	A-4(0)	S495	27.1
315+00	15' LT 0-5	BROWN	99	99	98	84	52	ND	NP	A-4(0)	S496	14.2
315+00	25' LT 0-5	BROWN	99	97	94	79	53	21	04	A-4(0)	S497	9.8

STA.#	LOC. D	EPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
323+00	06' RT	0-5	BROWN	99	98	95	90	72	21	04	A-4(0)	S498	21
323+00	15' RT	0-5	BROWN	99	99	97	87	71	23	06	A-4(2)	S499	21.2
323+00	25' RT	0-5	BROWN	99	98	97	93	73	ND	NP	A-4(0)	S500	17.1
331+00	06' LT	0-5	BROWN	98	96	95	85	68	ND	NP	A-4(0)	S501	20.3
331+00	15' LT	0-5	BR/GR	99	99	97	95	81	27	11	A-4(0)	S502	23.7
340+00	15' RT	0-5	BROWN	93	90	87	79	56	22	05	A-4(0)	S503	15.8
340+00	25' RT	0-5	BROWN	99	99	97	93	64	ND	NP	A-4(0)	S504	10.3
347+00	06' LT	0-5	BR/GR	99	98	95	78	68	33	18	A-6(10)	S505	28
347+00	15' LT	0-5	BR/GR	98	92	83	75	68	32	19	A-6(10)	S506	28.3
355+00	06' RT	0-3.5	BROWN	91	86	80	56	37	ND	NP	A-4(0)	S507	17
355+00	15' RT	0-5	BROWN	95	89	85	59	42	ND	NP	A-4(0)	S508	17.4
363+00	06' LT	0-5	BROWN	91	87	83	51	32	21	04	A-2-4(0)	S509	11.6
363+00	15' LT	0-5	BR/GR	88	83	81	50	30	18	01	A-2-4(0)	S510	15.6
371+00	18' RT	0-5	BR/GR	81	74	67	54	35	23	05	A-2-4(0)	S511	21.4
371+00	27' RT	0-5	BR/GR	93	85	79	57	36	17	02	A-4(0)	S512	17.1
371+00	35'RT	0-5	BROWN	99	97	95	89	52	17	02	A-4(0)	S513	7.1
379+00	06' LT	0-5	BROWN	97	94	90	78	39	25	12	A-6(1)	S514	19.8
379+00	15' LT	0-5	BROWN	90	86	81	64	32	25	07	A-2-4(0)	S515	28.1
379+00	25' LT	0-5	BROWN	88	86	83	78	42	28	12	A-6(2)	S516	27.4
387+00	06' RT	0-5	BROWN	92	86	79	62	36	ND	NP	A-4(0)	S517	11.9
387+00	15' RT	0-5	BROWN	88	83	78	56	35	ND	NP	A-2-4(0)	S518	6.6
395+00	06' LT	0-4Z	BR/GR	65	51	38	26	12	ND	NP	A-1-B(0)	S519	19.4
395+00	15' LT	0-5	BROWN	94	91	89	54	37	ND	NP	A-4(0)	S520	18.6
403+00	06' RT	0-4Z	BROWN	87	81	75	53	31	ND	NP	A-2-4(0)	S521	20.4
403+00	15' RT	0-5	BR/GR	95	90	86	59	37	ND	NP	A-4(0)	S522	17.9
403+00	25' RT	0-5	BROWN	87	83	80	56	36	ND	NP	A-4(0)	S523	16.9

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

Job No. Date Sampled: Date Tested: Name of Project:	CA0706 10/15/15 October 15, 2015 AIRPORT DR HWY.82B (WIDENING)(S)	Material Code Station No.: Location:	SSRVPS 123+00 25'LT	
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 70 Name: UNION FAULKNER 20153019 RV524	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:		0-5 A-4(2) 2
1. Testing Inform				
	Preconditioning - Permanent Strain > 5% (Y=Yes Testing - Permanent Strain > 5% (Y=Yes or N=No Number of Load Sequences Completed (0-15)	·		N N 15
2. Specimen Info				
	Specimen Diameter (in):			
	Top Middle			3.97
	Bottom			3.97 3.97
	Average			3.97
	Membrane Thickness (in):			0.01
	Height of Specimen, Cap and Base (in):			8.03
	Height of Cap and Base (in):			0.00
	Initial Length, Lo (in):			8.03
	Initial Area, Ao (sq. in): Initial Volume, AoLo (cu. in):			12.30 98.75
3. Soil Specimen	Weight:			
	Weight of Wet Soil Used (g):			3240.50
4. Soil Properties	s:			
_	Optimum Moisture Content (%):			13.4
	Maximum Dry Density (pcf):			112.5
	95% of MDD (pcf): In-Situ Moisture Content (%):			106.9
	III-Situ Moisture Content (%).			N/A
5. Specimen Pro	• • • • • • • • • • • • • • • • • • • •			
	Wet Weight (g):			3240.50
	Compaction Moisture content (%): Compaction Wet Density (pcf):			14.1 125.03
	Compaction Dry Density (pcf):			109.58
	Moisture Content After Mr Test (%):			13.5
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):			#VALUE!
7. Resilient Modu	ulus, Mr:	13390(So	c)^-0.164 2 0	(S3)^0.22008
8. Comments				
9. Tested By:	GW/DT Date	October 15, 2015		

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

SSRVPS 123+00 25'LT Material Code Station No.: Location: October 15, 2015 10/15/15 CA0706 Date Sampled: Date Tested: Job No.

Name of Project: AIRPORT DR. - HWY.82B (WIDENING)(S)

County: Code: 70 Name: UNION Samulad B.:: EATH PAID

Sampled By: FAULKNER
Lab No.: 20153019
Sample ID: RV524

A-4(2)

AASHTO Class:

Depth:

Material Type (1 or 2): 2

LONGITUDE:

LATITUDE:

				M	psi	17,512	16,784	15,985	14,461	13,263	15,801	14,844	13,945	13,083	12,226	13,989	13,051	12,073	11,389	10.670
Strain Modulus				S _r	in/in	0.00011	0.00022	0.00034	0.00050	0.00067	0.00012	0.00024	0.00039	0.00055	0.00072	0.00013	0.00028	0.00044	0.00062	0.00082
Recov Def.	LVDT 1	and 2		H _{avg}	ıï	0.00084	0.00174	0.00273	0.00399	0.00538	0.00093	0.00196	0.00311	0.00438	0.00582	0.00104	0.00221	0.00356	0.00498	0.00657
Applied	Contact	Stress		Scontact	isd	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	9.0	0.2	0.2	0.2	0.4	9.0
Applied	Cyclic	Stress		Scyclic	psi	1.8	3.6	5.4	7.2	8.9	1.8	3.6	5.4	7.1	8.9	1.8	3.6	5.3	7.1	8.7
Applied	Мах.	Axial	Stress	Smax	psi	2.1	3.9	5.7	7.7	9.6	2.1	3.9	5.6	7.6	9.5	2.0	3.8	5.6	7.4	6.3
Applied	Contact	Load		Pcontact	sql	2.8	2.9	3.8	6.2	8.7	2.9	2.8	2.9	5.4	7.8	2.8	2.8	2.9	4.5	7.0
Applied	Cyclic Load			Poyolic	sql	22.6	44.8	6.99	88.3	109.3	22.4	44.6	66.4	87.8	108.9	22.3	44.2	65.8	86.9	107.4
Applied	Max. Axial	Load		P _{max}	sql	25.4	47.7	9.07	94.5	118.0	25.3	47.4	69.2	93.1	116.7	25.1	47.1	68.7	91.4	114.4
Maximum	Axia/	Stress		Scyclic	psi	2.0	4.0	6.0	8.0	10.0	2.0	4.0	0.9	8.0	10.0	2.0	4.0	0.9	8.0	10.0
Confining	Pressure			S ₃	psi	0.9	0.0	0.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0	2.0 :	2.0	2.0	2.0	2.0
	PARAMETER			DESIGNATION	TINO	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sednence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Sequence 14	Sequence 15

October 15, 2015

DATE DATE

GW/DT

REVIEWED BY

TESTED BY

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

Job No. CA0706 Material Code SSRVPS

Date Sampled:

10/15/15

Station No.: 123+00

Date Tested:

October 15, 2015

Location: 25'LT

Name of Project: AIRPORT DR. - HWY.82B (WIDENING)(S)

County:

Name: UNION

Sampled By:

Code: 70 **FAULKNER**

Depth: 0-5

Lab No.:

20153019

AASHTO Class: A-4(2)

Sample ID:

RV524

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

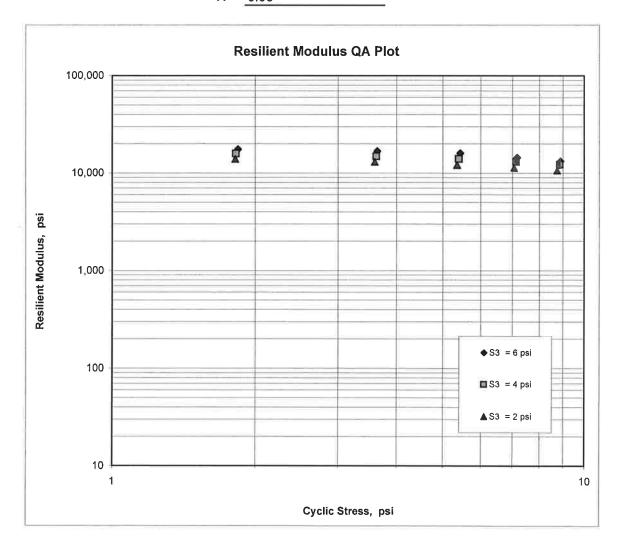
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 13,390

K2 = -0.16420

K5 = 0.22008

 $R^2 = 0.95$



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

Job No. Date Sampled: Date Tested: Name of Project:	CA0706 10/21/15 October 21, 2015 AIRPORT DR HWY.82B (WIDENING)(S)	Material Code Station No.: Location:	SSRVPS 203+00 27'LT	
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 70 Name: UNION FAULKNER 20153020 RV525	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:		0-5 A-6(9) 2
1. Testing Inform				
	Preconditioning - Permanent Strain > 5% (Y=Yes Testing - Permanent Strain > 5% (Y=Yes or N=No) Number of Load Sequences Completed (0-15)		6	N N 15
2. Specimen Info	rmation:			
·	Specimen Diameter (in): Top Middle			3.95 3.95
	Bottom Average Membrane Thickness (in):			3.95 3.95 0.01
	Height of Specimen, Cap and Base (in): Height of Cap and Base (in): Initial Length, Lo (in): Initial Area, Ao (sq. in):			8.02 0.00 8.02 12.17
	Initial Volume, AoLo (cu. in):			97.63
3. Soil Specimen	Weight:			
•	Weight of Wet Soil Used (g):		(16)	3048.40
4. Soil Properties	::			
	Optimum Moisture Content (%): Maximum Dry Density (pcf): 95% of MDD (pcf): In-Situ Moisture Content (%):			20.0 101.3 96.2 N/A
5. Specimen Proj	perties:			
	Wet Weight (g): Compaction Moisture content (%): Compaction Wet Density (pcf): Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		94	3048.40 19.6 118.97 99.47 19.6
6. Quick Shear Te	est (Y=Yes, N=No, N/A=Not Applicable):			#VALUE!
7. Resilient Modu	ılus, Mr:	14593(Sc	c)^-0.27973	(S3)^0.10870
8. Comments				
9. Tested By:	CG Date:	October 21, 2015		

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

Material Code Station No.: Location: AIRPORT DR. - HWY.82B (WIDENING)(S) October 21, 2015 10/21/15 CA0706 Name of Project: Date Sampled: Date Tested: Job No.

SSRVPS 203+00 27'LT

UNION Name: Code: 70 FAULKNER Sampled By: County:

20153020 RV525 LATITUDE: Sample ID: Lab No.:

Material Type (1 or 2): 2

LONGITUDE:

A-6(9)0-5

AASHTO Class:

Depth:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	S	S _{cyclic}	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	2,	M
TINO	bsi	psi	sql	sql	sql	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.0	22.2	2.9	2.1	1.8	0.2	0.00100	0.00013	14,540
Sequence 2	0.9	4.0	46.9	44.0	2.9	3.9	3.6	0.2	0.00216	0.00027	13,445
Sequence 3	0.9	0.0	69.1	65.3	3.7	5.7	5.4	0.3	0.00359	0.00045	11,976
Sequence 4	0.9	8.0	91.4	85.2	6.2	7.5	7.0	0.5	0.00552	0.00069	10,168
Sequence 5	6.0	10.0	112.0	103.3	8.7	9.2	8.5	0.7	0.00778	0.00097	8,745
Sequence 6	4.0	2.0	24.9	22.1	2.9	2.0	1.8	0.2	0.00107	0.00013	13,635
Sequence 7	4.0	4.0	46.6	43.8	2.9	3.8	3.6	0.2	0.00232	0.00029	12,446
Sequence 8	4.0	0.9	67.8	64.9	2.9	5.6	5.3	0.2	0.00383	0.00048	11,166
Sequence 9	4.0	8.0	90.0	84.8	5.2	7.4	7.0	0.4	0.00566	0.00071	9,874
Sequence 10	4.0	10.0	111.5	103.8	7.7	9.2	8.5	9.0	0.00781	0.00097	8,757
Sequence 11	2.0	2.0	24.8	22.0	2.9	2.0	1.8	0.2	0.00116	0.00014	12,499
Sequence 12	2.0	4.0	46.5	43.6	2.9	3.8	3.6	0.2	0.00251	0.00031	11,458
Sequence 13	2.0	0.9	67.4	64.5	2.9	5.5	5.3	0.2	0.00410	0.00051	10,354
Sequence 14	2.0	8.0	88.8	84.4	4.4	7.3	6.9	0.4	0.00597	0.00074	9,317
Sequence 15	2.0	10.0	109.9	102.9	7.0	9.0	8.5	9.0	0.00811	0.00101	8,366

October 21, 2015	
DATE	DATE
90	
TESTED BY	REVIEWED BY

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

Job No. CA0706 **Material Code SSRVPS**

Date Sampled:

10/21/15

Station No.: 203+00

Date Tested:

October 21, 2015

Location: 27'LT

Name of Project: AIRPORT DR. - HWY.82B (WIDENING)(S)

County:

Code: 70

Name: UNION

Sampled By:

FAULKNER

Depth: 0-5

Lab No.:

20153020

AASHTO Class: A-6(9)

Sample ID:

RV525

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

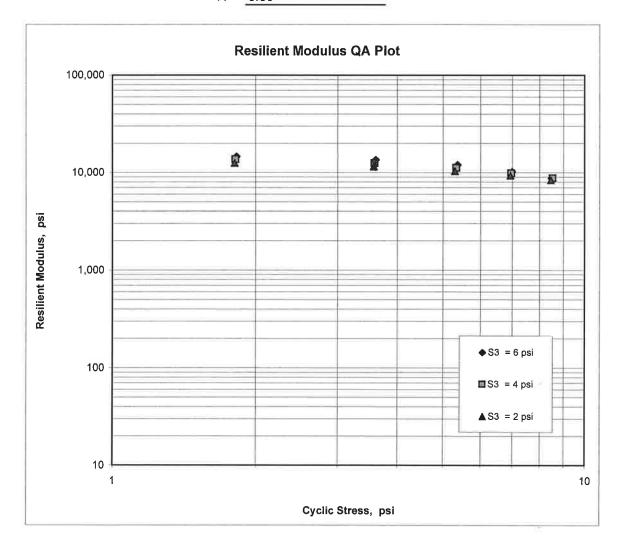
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 14,593$$

$$K2 = -0.27973$$

$$K5 = 0.10870$$

$$R^2 = 0.89$$



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

Job No. Date Sampled: Date Tested: Name of Project:	CA0706 10/20/15 October 20, 2015 AIRPORT DR HWY. 82B (WIDENING)(S)	Material Code Station No.: Location:	SSRVPS 379+00 25' LT	
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 70 Name: UNION FAULKNER 20153022 RV527	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	V3	0-5 A-6(4) 2
1. Testing Inform	nation:			
	Preconditioning - Permanent Strain > 5% (Y=Yes Testing - Permanent Strain > 5% (Y=Yes or N=No Number of Load Sequences Completed (0-15)	•		N N 15
2. Specimen Info	ormation:			
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 3.95 0.01 8.04 0.00 8.04 12.18 97.95
	Optimum Moisture Content (%): Maximum Dry Density (pcf): 95% of MDD (pcf): In-Situ Moisture Content (%):			16.6 105.9 100.6 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 (%):			3022.60 16.1 117.58 101.27 16.0
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		17	#VALUE!
7. Resilient Mod		11300(S	c)^-0.18985	s(S3)^0.21352
8. Comments				
9. Tested By:	GW, DT Date	e: October 20, 2015		

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

SSRVPS 379+00

25' LT

Material Code Station No.: Location: AIRPORT DR. - HWY. 82B (WIDENING)(S) October 20, 2015 10/20/15 CA0706 Name of Project: Date Sampled: Date Tested: Job No.

County: Code: 70 Name: UNION
Sampled By: FAULKNER

 Lab No.:
 20153022

 Sample ID:
 RV527

 LATITUDE:

Depth: 0-5
AASHTO Class: A-6(4)
Material Type (1 or 2): 2
LONGITUDE:

	Chamber	Nominal	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Average Recov Def.	Resilient 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	Š	Scyclic	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	£.	Ā
TIND	psi	psi	sql	sql	sql	psi	psi	psi	, ⊆	in/in	psi
Sequence 1	0.9	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00101	0.00013	14,515
Sequence 2	0.9	4.0	46.8	44.0	2.8	3.8	3.6	0.2	0.00214	0.00027	13,549
Sequence 3	0.9	6.0	69.3	65.6	3.7	5.7	5.4	0.3	0.00338	0.00042	12,820
Sequence 4	0.9	8.0	92.6	86.4	6.1	7.6	7.1	0.5	0.00499	0.00062	11,421
Sequence 5	0.9	10.0	115.3	106.7	9.8	9.5	8.8	0.7	0.00674	0.00084	10,459
Sequence 6	4.0	2.0	24.9	22.1	2.8	2.0	1.8	0.2	0.00110	0.00014	13,237
Sequence 7	4.0	4.0	46.5	43.6	2.9	3.8	3.6	0.2	0.00239	0.00030	12,014
Sequence 8	4.0	0.9	67.7	64.8	2.9	5.6	5.3	0.2	0.00386	0.00048	11,079
Sequence 9	4.0	8.0	90.7	85.5	5.2	7.4	7.0	0.4	0.00546	0.00068	10,339
Sequence 10	4.0	10.0	113.7	106.0	7.7	9.3	8.7	9.0	0.00718	0.00089	9,745
Sequence 11	2.0	2.0	24.7	21.9	2.8	2.0	1.8	0.2	0.00126	0.00016	11,458
Sequence 12	2.0	4.0	46.1	43.3	2.8	3.8	3.6	0.2	0.00271	0.00034	10,524
Sequence 13	2.0	0.9	6.99	64.1	2.9	5.5	5.3	0.2	0.00434	0.00054	9,737
Sequence 14	2.0	8.0	88.5	84.2	4.4	7.3	6.9	0.4	0.00609	0.00076	9,129
Sequence 15	2.0	10.0	111.2	104.4	6.8	9.1	8.6	9.0	0.00790	0.00098	8,720

20, 2015

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

Name: UNION

Job No.

CA0706

Material Code SSRVPS

Date Sampled:

10/20/15

Station No.: 379+00

Date Tested:

October 20, 2015

Location: 25' LT

Name of Project: AIRPORT DR. - HWY. 82B (WIDENING)(S)

County:

Code: 70

Sampled By:

FAULKNER

Depth: 0-5

Lab No.:

20153022

AASHTO Class: A-6(4)

Sample ID:

RV527

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

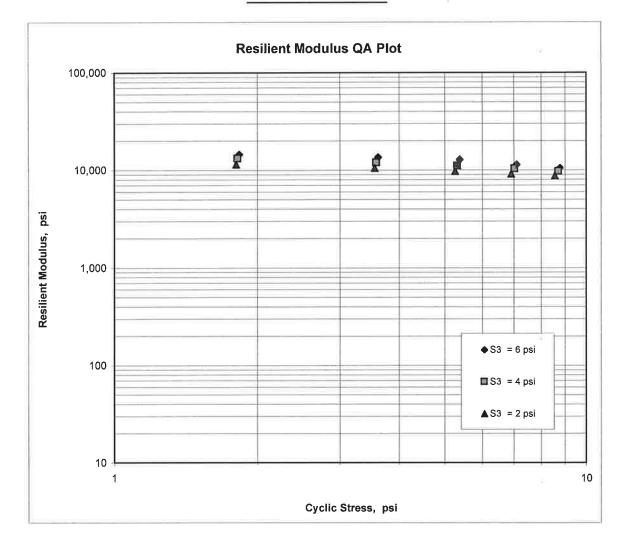
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 11,300

K2 = -0.18985

K5 = 0.21352

 $R^2 = 0.96$



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

Job No. Date Sampled: Date Tested: Name of Project:	CA0706 10/20/15 October 20, 2015 AIRPORT DR HWY. 82B (WIDENING)(S)	Material Code Station No.: Location:	SSRVPS 259+00 27' RT
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 70 Name: UNION FAULKNER 20153021 RV526	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-4(7) 2
1. Testing Inforn	nation:		
	Preconditioning - Permanent Strain > 5% (Y= Testing - Permanent Strain > 5% (Y=Yes or Note Number of Load Sequences Completed (0-15)	=No)	N N 15
2. Specimen Info	ormation:		
-	Specimen Diameter (in):		
	Тор		3.97
	Middle		3.95
	Bottom		3.95
	Average		3.96 0.01
	Membrane Thickness (in): Height of Specimen, Cap and Base (in):		8.06
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.06
	Initial Area, Ao (sq. in):		12.22
	Initial Volume, AoLo (cu. in):		98.53
3. Soil Specimer			3138.10
	Weight of Wet Soil Used (g):		3130.10
4. Soil Propertie	s:		
·	Optimum Moisture Content (%):		15.3
	Maximum Dry Density (pcf):		109.5
	95% of MDD (pcf):		104.0
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3138.10
	Compaction Moisture content (%):		14.7
	Compaction Wet Density (pcf):		121.36
	Compaction Dry Density (pcf):		105.80
	Moisture Content After Mr Test (%):		14.7
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	15002(8	Se)^-0.14433(S3)^0.16355
8. Comments			0.
9. Tested By:	CG, DT	Date: October 20, 2015	

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

SSRVPS 259+00 27'RT

Material Code Station No.: Location: October 20, 2015 10/20/15 CA0706 Date Sampled: Date Tested: Job No.

Name of Project: AIRPORT DR. - HWY. 82B (WIDENING)(S)

County:Code: 70Name:UNIONSampled By:FAULKNERLab No.:20153021

Sample ID: RV526 LATITUDE:

Depth: 0-5
AASHTO Class: A-4(7)
Material Type (1 or 2): 2

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	Max. Axiai	Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	Scyclic	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	ž	M
UNIT	psi	psi	sql	sql	sql	psi	psi	psi	'n	in/in	psi
Sequence 1	6.0	2.0	25.2	22.5	2.7	2.1	1.8	0.2	0.00082	0.00010	18,087
Sequence 2	6.0	4.0	47.3	44.5	2.7	3.9	3.6	0.2	0.00169	0.00021	17,350
Sequence 3	6.0	0.9	70.0	66.4	3.6	5.7	5.4	0.3	0.00265	0.00033	16,548
Sequence 4	6.0	8.0	93.5	87.5	0.9	7.6	7.2	0.5	0.00381	0.00047	15,156
Sequence 5	6.0	10.0	116.0	107.6	8.4	9.5	8.8	0.7	0.00513	0.00064	13,824
Sequence 6	4.0	2.0	25.0	22.5	2.5	2.0	1.8	0.2	0.00088	0.00011	16,945
Sequence 7	4.0	4.0	47.1	44.3	2.8	3.9	3.6	0.2	0.00184	0.00023	15,869
Sequence 8	4.0	6.0	68.7	62.9	2.8	5.6	5.4	0.2	0.00288	0.00036	15,059
Sequence 9	4.0	8.0	92.1	86.8	5.4	7.5	7.1	0.4	0.00402	0.00050	14,236
Sequence 10	4.0	10.0	114.9	107.1	7.9	9.4	8.8	9.0	0.00533	0.00066	13,235
Sequence 11	2.0	2.0	25.1	22.2	2.8	2.0	1.8	0.2	0.00099	0.00012	14,831
Sequence 12	2.0	4.0	46.7	43.9	2.9	3.8	3.6	0.2	0.00203	0.00025	14,265
Sequence 13	2.0	6.0	68.2	65.3	2.9	5.6	5.3	0.2	0.00319	0.00040	13,505
Sequence 14	2.0	8.0	90.6	86.1	4.4	7.4	7.0	0.4	0.00442	0.00055	12,834
Sequence 15	2.0	10.0	113.5	106.6	6.9	9.3	8.7	9.0	0.00578	0.00072	12,150

October 20, 2015

DATE DATE

CG, DT

REVIEWED BY

TESTED BY

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

Job No.

CA0706

Material Code SSRVPS

Date Sampled:

10/20/15

Station No.: 259+00

Date Tested:

October 20, 2015

Location: 27' RT

Name of Project: AIRPORT DR. - HWY. 82B (WIDENING)(S)

Code: 70

Name: UNION

County: Sampled By:

FAULKNER

Depth: 0-5

Lab No.:

AASHTO Class: A-4(7)

Sample ID:

20153021 **RV526**

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

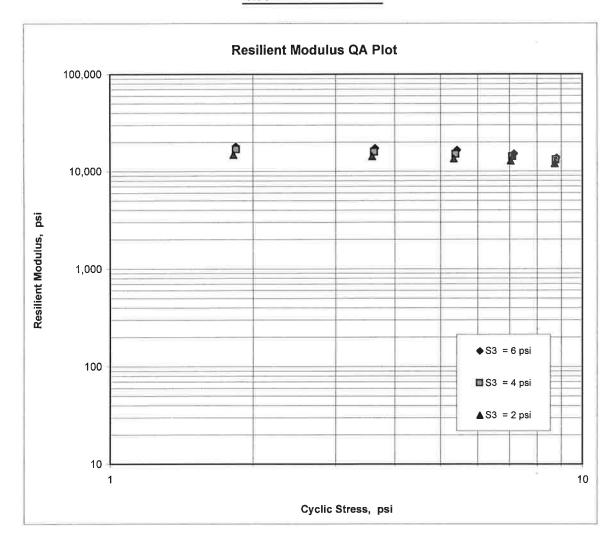
 $M_R = K1 (S_C)^{K2} (S_3)^{K5}$

K1 = 15,002

K2 = -0.14433

K5 = 0.16355

 $R^2 = 0.93$



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

MICHAEL BENSON, MATERIALS ENGINEER

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

	DOLL	John January		011021110 1001	I ILLI OILI	6
DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO . PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPL SAS	Y SAMPLE CATION CHECK ST. RECONSTRUCTION	MC	(S)	MATERIAL SPEC. YEZ SUPPLIER COUNTY/ST DISTRICT	NO 1 CODE - SSRVPS AR - 2014 ID 1 FATE - 70 NO 07
LOCATION - UNION						PLED - 09/22/15
SAMPLED BY - D.DICK						EIVED - 09/23/15
SAMPLE FROM - TEST				NIE GOVERNOTA		TED - 10/09/15
MATERIAL DESC SOI	L SURVE	Y - R VALUE- PAV	EME	ENT SOUNDING	GS	
LAB NUMBER	-	20152915	2	20152916	(4)	20152917
SAMPLE ID	-	S420	-	S421	:=:	S422
TEST STATUS	-	INFORMATION ONLY	-	INFORMATIO	ON ONLY =	INFORMATION ONLY
STATION	_	099+00	-	099+00		099+00
LOCATION	_	06' RT	=1	15' RT	=	24' RT
DEPTH IN FEET	-	0-5	~	0-5	-	0-5
MAT'L COLOR	_	BR/GR	-	BR/GR	_	BROWN
MAT'L TYPE	-		=		-	
LATITUDE DEG-MIN-	SEC -	33 12 33.60	<u>,</u>	33 12	33.60	33 12 33.40
LONGITUDE DEG-MIN-	SEC -	92 48 44.50		92 48	44.50	92 48 44.50
% PASSING 2	IN		_		_	
	IN		-		_	
	IN		-		_	48
•	IN	100	-	100	-	100
·	4 -	99	77	97	-	99
	10 -	99	Ħ	96	-	98
NO.		98	_	92	_	95
NO.	80 -	91	-	68	_	87
	200 -	61		46		55
LIQUID LIMIT	-	22	-	ND	-	20
PLASTICITY INDEX	-	05	-	NP	-	*05
AASHTO SOIL	-	A-4(1)	_	A-4 (0)	=	A-4 (0)
UNIFIED SOIL	-		-		=	
% MOISTURE CONTENT	_	21.9		17.8		17.4
ACHMSC	(IN) -	8.75W	-	3.5W	-	5.5
ACHMBC	(IN) -	3.5	=		-	**
PCCP	(IN) -	5.5	*		-	## ## *********************************
AGG.BASE CRS. CL7	(IN)	*.*	250 250	7.0	-	5.5
	-		=		_	30
	_				_	
	-		=		-	
	-		=		-	
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

AASHTO TESTS : T24 T88 T89 T90 T265

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPI	EY SAMPLE CATION CHE H ST. RECON	CK	N	(S)	MATERIAL SPEC. YE. SUPPLIER COUNTY/S DISTRICT	NO 2 CODE - SSRVPS AR - 2014 ID 1 TATE - 70 NO 07
SAMPLED BY - D.DICK SAMPLE FROM - TEST	ERSON						EIVED - 09/23/15
MATERIAL DESC SOI	L SURV	EY - R VAI	LUE- PAVE	ME	ENT SOUNDIN	IGS	×
LAB NUMBER SAMPLE ID	=	20152918 S423			20152919 S424		20152920 S425
TEST STATUS	-		ON ONLY				INFORMATION ONLY
STATION	2:			= 2	107+00		107+00
LOCATION	3	06' LT		-	15' LT	-	25' LT
DEPTH IN FEET	570	0-5		~	0-5	7 <u>4</u> 7	0-2Z
MAT'L COLOR	100	BR/GR		_	BR/GR		BROWN
MAT'L TYPE	æ8			-		-	
LATITUDE DEG-MIN-	SEC =		32.50	_	33 12	32.50	33 12 32.70
LONGITUDE DEG-MIN-	SEC =	92 48	33.80		92 48	33.80	92 48 33.80
% PASSING 2	IN					_	
	IN			-			
-	IN.			-		_	100
_·	IN. =	100		-	100	:=:	98
NO.		97		77	97	i=:	83
NO.	10 -	90		7	92		67
NO.		77	(ii)	_	87	_	F 57
NO.	80 -	69		-	56	-	44
NO.	200 -	54			41		28
LIQUID LIMIT	8	29		-	20	12	
PLASTICITY INDEX	-	12		\geq	05	: :	
AASHTO SOIL	-	A-6 (4)		-	A-4 (0)	=	NO TEST
UNIFIED SOIL	==:			-		1-mar	
% MOISTURE CONTENT	27	32.1		=	20.9	-	4.0
ACHMSC	(IN) -	12.5WX		_	11.0WX	=	Y en
ACHMBC	(IN) -	4.0		-	==	=	
PCCP	(IN) -	6.0		-	-	-	8 5
AGG.BASE CRS. CL7	(IN)	7.0		-		2	**
	_			_			
	-			_		_	
	-			-		=	
	-			-		=======================================	
	-			-		=	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

--

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

DATE - 10/26 JOB NUMBER - CA070 FEDERAL AID NO TO BE PURPOSE - SOIL SPEC. REMARKS - NO SE SUPPLIER NAME - STATE NAME OF PROJECT - HOE PROJECT ENGINEER - NOT PIT/QUARRY - ARKANSA LOCATION - UNION O SAMPLED BY - D.DICKER SAMPLE FROM - TEST HO MATERIAL DESC SOIL	COUNTY	Y SAMPLE CATION CHECK ST. RECONSTRUCTI ICABLE			MATERIAL SPEC. YEA SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC DATE TES	ID 1 IATE - 70 NO 07 IPLED - 09/22/15 EIVED - 09/23/15
LAB NUMBER	-	20152921	_	20152922	-	20152923
SAMPLE ID	= 1			S427		S428
TEST STATUS	20					INFORMATION ONLY
STATION			_	115+00		115+00
LOCATION			-	27' RT	9 7 4	37' RT
DEPTH IN FEET	= 1		-	0-5	-	0-5
MAT'L COLOR		GRAY	-	BR/GR	-	BROWN
MAT'L COLOR MAT'L TYPE	=	Oldii	-	Dit, Oit	-	2101121
LATITUDE DEG-MIN-SE	C =	33 12 31.80	_	33 12	31.70	33 12 31.60
LONGITUDE DEG-MIN-SE					24.50	92 48 24.50
1 1/2 I 3/4 I 3/8 I NO. NO. 1	N 4 - 0 - 0 -	100 99 99 99 97 83 64		100 98 96 93 80 60		100 99 99 97 90 70
LIQUID LIMIT	_	18	_	22	_	22
PLASTICITY INDEX	-		3		2	05
AASHTO SOIL	-	A-4 (0)	_		: :	A-4(1)
UNIFIED SOIL	¥0	11 1 (0)	=	(-)	=	11 1 (1)
% MOISTURE CONTENT	2	21.2	=	17.1	-	13.0
	IN) -	4.0W	-	3.5		
	IN) -	9.0W	_	9.25	=	**
AGG.BASE CRS. CL7 (IN) -	8.0	_		-	
	=		_		=	
	***		_			
	=		-		=	
	-		-		÷	
	======================================		-		5	
	-		-		=	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPI ISAS I COUNTY KERSON	Y SAMPLE CATION CHECK ST. RECONSTRUCTION CABLE	NC	(S)	MATERI SPEC. SUPPLI COUNTY DISTRI	AL YEA ER /ST CT	ID FATE - NO PLED - EIVED -	SSRVPS 2014 1 70
MATERIAL DESC SOI	L SURV	EY - R VALUE- PAV	EMI	ENT SOUNDING	GS			
LAB NUMBER SAMPLE ID TEST STATUS STATION	- - -	20152924 S429	-	20152925 S430			2015292 S431 INFORMA 123+00	
LOCATION	_	06' LT	-	15' LT			25' LT	
DEPTH IN FEET		0-5	-	0-5		()	0-5	
		BR/GR	-	GRAY			BROWN	
MAT'L COLOR MAT'L TYPE	_	BR/GR	-	GIAI		200	DKOMM	
LATITUDE DEG-MIN-	SEC -	33 12 32.40	_	33 12	32.60	-	33 1	12 32.80
LONGITUDE DEG-MIN-					15.00			18 15.00
% PASSING 2	IN		=			_		
	IN		~			-		
	IN: -		-	100		-	(4)	
3/8	IN			97		_	100	
NO.	4 -		=	96		_	99	8
NO.	10 -	100	-	93		_	99	
NO.	40 -	99	=	88		-	97	
NO.	80 -	95	-	74		-	92	
NO.	200 -	77		58			73	
LIQUID LIMIT	_	25	=	22		: ;** ;	28	
PLASTICITY INDEX	_	08	-	07		1	11	
AASHTO SOIL	_	A-4 (4)	77	A-4 (1)		-	A-6 (6	5)
UNIFIED SOIL	_		7	, ,		-	,	,
% MOISTURE CONTENT	_	20.7	=	23.9		-	26.7	7
ACHMSC	(IN) -	12.0W	=	8.0W			202	
ACHMBC	(IN) -	2.5	-	==				
PCCP	(IN) -	6.25	770	22		15		
AGG.BASE CRS. CL7	(IN)	37	-	5.0		-	22	
	(/ =		-	2.0		(
	5 5		***					
	≅ ≅		- E			15		
	-		4			(ce		
	=		-					

REMARKS = W=MULTIPLE LAYERS, X=STRIPPED

7

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

DATE - 10/26/15 JOB NUMBER - CA0706 FEDERAL AID NO TO BE AS PURPOSE - SOIL SUR SPEC. REMARKS - NO SPECI SUPPLIER NAME - STATE NAME OF PROJECT - HOPE 6 PROJECT ENGINEER - NOT AP PIT/QUARRY - ARKANSAS LOCATION - UNION COUN SAMPLED BY - D.DICKERSON	VEY SAMPLE FICATION CHECK TH ST. RECONSTRUCTION PLICABLE TY	DATE SAMPLED - 09/22/15 DATE RECEIVED - 09/23/15	
SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SUR	VEY - R VALUE- PAVE	DATE TESTED - 10/09/15 MENT SOUNDINGS	
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	- 20152927 - S432	- 20152928 - 20152929 - S433 - S434 - INFORMATION ONLY - INFORMATION ONL - 131+00 - 131+00 - 27' RT - 37' RT - 0-5 - 0-5 - BR/GR - BROWN	Υ
LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC		- 33 12 32.30 - 33 12 32.20 92 48 5.70 92 48 5.70	
% 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 - 98 - 98 - 95 - 86		
AASHTO SOIL UNIFIED SOIL	- 25 - 08 - A-4 (2)	- 24 - 24 - 08 - 08 - A-4 (1) - A-4 (1) - 20.0 - 18.7	
% MOISTURE CONTENT ACHMSC (IN) ACHMBC (IN)	- 18.0 - 3.75W - 10.25W - - -	20.0 18.7 - 3.5 9.0W	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

:

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

DATE - 10/26/15 SEQUENCE NO. - 6

JOB NUMBER - CA0706 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 - 70

SUPPLIER NAME - STATE DISTRICT NO. - 07

NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)

PROJECT ENGINEER - NOT APPLICABLE

PIT/QUARRY - ARKANSAS

LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15

MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC		0-5	-	INFORMATION ONLY 139+00 15' LT 0-5 BROWN 33 12 32.10 92 47 56.10	
% PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 NO. 10 NO. 40 NO. 80 NO. 200 LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	-			100 99 96 92 78 62 19 04 A-4 (0)	100 99 99 97 96 87 66 26 09 A-4 (4)
% MOISTURE CONTENT ACHMSC (IN ACHMBC (IN PCCP (IN AGG.BASE CRS. CL7 (IN	-) -) -	21.0 10.0WX 3.0 6.0		17.5 6.0W 7.0	 18.9

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

*

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

*** [SOTT	SURVEY / PAVEMENT	SO	OUNDING TEST	REPORT	***		
DATE - 10/26, JOB NUMBER - CA0706 FEDERAL AID NO TO BE PURPOSE - SOIL S SPEC. REMARKS - NO SPE SUPPLIER NAME - STATE NAME OF PROJECT - HOPP PROJECT ENGINEER - NOT PIT/QUARRY - ARKANSAS LOCATION - UNION CO SAMPLED BY - D.DICKER SAMPLE FROM - TEST HOPP MATERIAL DESC SOIL	E NO. CODE EAR CID. STATE NO. MPLED CEIVED STED	- SS - 20 - 1 - 70 - 07 - 09 - 09	/22/15 /23/15					
STATION LOCATION DEPTH IN FEET	- - - -	INFORMATION ONLY 147+00 18' RT 0-5 BR/GR		S439 INFORMATIC 147+00 27' RT 0-5 BR/GR	ON ONLY	147+0 36' F 0-5 BROWN	RMATI 00 RT 1	ON ONLY 31.40 46.70
	1 1 1 1 1	100 99 99 98 87		100 99 97 93 80 52	-	100 98 92 86 76 63		
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	-	09	2 7 7 2	29 11 A-6 (3) 27.0		28 11 A-6	(4) 2.5	
·	N) - N) - - - - -	5.0 8.0W		3.5 8.0W		- 32		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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 - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPI SAS I COUNTY CERSON HOLE	Y SAMPLE CATION CHECK ST. RECONSTRUCTION CABLE			SPEC. YE SUPPLIER COUNTY/S DISTRICT DATE SAM DATE REC DATE TES	CODE AR ID. TATE NO.	- SSRVPS - 2014 - 1
MATERIAL DESC SOI	LL SUKVI	ıı - k value- PAV	₽[A]	FMI SOONDIN	GD	(4)	
LAB NUMBER	-	20152936	=======================================	20152937	=	20152	2938
SAMPLE ID	-	S441	=	S442		S443	
TEST STATUS	-	INFORMATION ONLY	= 0	INFORMATIO	ON ONLY -	INFOR	RMATION ONLY
STATION	_	155+00	-	155+00	-	155+0	00
LOCATION	_	06' LT	7.0	15' LT	=	25' I	T
DEPTH IN FEET	_	0-5	-	0-5	-	0-5	
MAT'L COLOR	_	BROWN	-	BR/GR	·	BROWN	1
MAT'L TYPE	-		-				
LATITUDE DEG-MIN-	SEC -	33 12 31.70	_	33 12	31.80 -	∞: 33	12 31.90
LONGITUDE DEG-MIN-	SEC -	92 47 37.30		92 47	37.30	92	47 37.30
% PASSING 2	IN		_		_		
	IN		=	,	_		
·	IN	100	-	100	-		
	IN	99	<u>~</u>	98	-	100	
NO.		97	-	97	-	98	
NO.	10 -	93	20 21	95	-	95	
	40 -	83	- E	91	_	92	
NO.	80 -	75	-	73	_	77	
	200 -	42		40		45	
						340	
LIQUID LIMIT	_	ND	7	ND		ND	
PLASTICITY INDEX	-	NP	70. 20	NP	_	NP	(0)
AASHTO SOIL	-	A-4 (0)	_	A-4 (0)	_	A-4	(0)
UNIFIED SOIL	_		-		.=		
% MOISTURE CONTENT	=	14.4		12.2		13	3.2
ACHMSC	(IN) -	9.0WX	-	8.5W	-		
ACHMBC	(IN) -	5.0W	-	1737	<u> </u>		
PCCP	(IN) -	6.0	-	100.00	_	-	
AGG.BASE CRS. CL7	(IN) _		-	7.0	_		
	57/ (2)		_		= = = = = = = = = = = = = = = = = = =		
	¥0		_		_		
			-		-		
	=		-		-		
	_		-		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

MICHAEL BENSON, MATERIALS ENGINEER

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

	DOIL	DORVEL / I	TIVELIEU D	701121	.0 11.	JI 1(111 OI)				
DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	TO6 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPL ISAS I COUNTY CERSON HOLE IL SURVE	Y SAMPLE CATION CHE ST. RECON ICABLE .	ECK NSTRUCTION LUE- PAVEM	ENT S		MATER SPEC. SUPPL COUNT DISTR DATE DATE DATE DATE	IAL YEI IER Y/ST ICT SAM: REC:	NO. PLED EIVED FED	- SS - 20 - 1 - 70 - 07 - 09 - 09	14
LAB NUMBER	_	20152939			52940			20152	941	
SAMPLE ID TEST STATUS		S444 INFORMATI	ON ONLY -	S445		ION ONLY		S446 INFOR	ITAM	ON ONLY
STATION		163+00		163-			-	163+0	0	
LOCATION	-	18' RT	=	27 '	RT		-	35'RT	ı	
DEPTH IN FEET	-	0-5	_	0-5			_	0-5		
MAT'L COLOR MAT'L TYPE	-	BR/GR		BR/G	G R		## ##	BROWN	•	
LATITUDE DEG-MIN-	SEC -	33 12	31.20	3.3	3 12	31.10	-	33	12	31.10
LONGITUDE DEG-MIN-	SEC -	92 47	27.80	92	47	27.90		92	47	27.90
3/4 3/8	40 - 80 -	100 99 98 95 77 48	- - - - -	100 98 98 94 82 59) 3 5 4			99 95 87 80 65 43		
LIQUID LIMIT	_	ND	_	18			-	ND		
PLASTICITY INDEX	~		2	02			-	NP		
AASHTO SOIL	-	A-4 (0)	=	A-	4 (0)		=	A-4	(0)	
UNIFIED SOIL	_		=				(5)			
% MOISTURE CONTENT	-	16.4	-	9	19.0			7	.0	
ACHMSC	(IN) -	3.5WX	-	4	. OW					
ACHMBC	(IN) -	9.5WX	-	9	. OW		-	-		
AGG.BASE CRS. CL7	(IN) -	6.0	-	-	=		=			
	_						= =			
	_									
	-		-				==	120		
	-						77			
	-		-				20			
	-		12				**			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPL SAS COUNTY CERSON HOLE	Y SAMPLE CATION CHECK ST. RECONSTRUCTION ICABLE			DATE REC	CODE - AR ID IATE - NO IPLED EIVED	- SSRVPS - 2014 - 1 - 70
LAB NUMBER	_	20152942	-	20152943	L	20152	944
SAMPLE ID	_	S447		S448		S449	
TEST STATUS	_		-	INFORMATIO	N ONLY -	INFOR	MATION ONLY
STATION	_	171+00	7	171+00		171+0	
LOCATION	-	06' LT	-	15' LT	-	25' L	Т
DEPTH IN FEET	-	0-5	_	0-5	_	0-5	
MAT'L COLOR	11-	GRAY	-	GRAY	_	BROWN	•
MAT'L TYPE	-		2		_		
LATITUDE DEG-MIN-					31.30 -		12 31.40
LONGITUDE DEG-MIN-	SEC -	92 47 18.50		92 47 2	18.50	92	47 18.50
% PASSING 2	IN		=				
1 1/2	IN -		***		-		
3/4	IN		==		-	100	
3/8	IN	100	-	100	-	97	
NO.	4 -	99	2	99	-	88	
NO.	10 -	97	=	98		84	
NO.	40 -	94	*	95	1403	81	
NO.		89	77	80	=:	27 72	
NO.	200 -	57		49		45	
LIQUID LIMIT	_	18	=	23	-	ND	
PLASTICITY INDEX	_	03	-	07	-	NP	
AASHTO SOIL	-	A-4 (0)	*	A-4 (1)	-	A-4	(0)
UNIFIED SOIL	-		**		2		
% MOISTURE CONTENT	_	15.8	ā	15.6		6	. 8
ACHMSC	(IN) -	13.25W	-	7.5W	ne		
ACHMBC	(IN) -	3.5	=		2=	Dec 200	
PCCP	(IN) -	6.0	-		ii e		
AGG.BASE CRS. CL7	(IN) -	**	77.	6.0		7.7	
	D2 9555 -		-		725		
	_		-		_		
	_		-		\ -		
	=		-		PS		
	-		**		92 4		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

AASHTO TESTS : T24 T88 T89 T90 T265

:

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

DATE - 10/26/15 JOB NUMBER - CA0706 SEQUENCE NO. - 11 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 - 70 SUPPLIER NAME - STATE DISTRICT NO. - 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS - 20152945 - 20152946 - 20152947 - S450 - S451 - S452 LAB NUMBER SAMPLE ID - S450 TEST STATUS - INFORMATION ONLY - INFORMATION ONLY - INFORMATION ONLY - 179+00 = 179+00 **179+00** STATION 15' RT 27' RT - 06' RT LOCATION 0-5 DEPTH IN FEET - 0-5 0-5 - BROWN BROWN BROWN MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC - 33 12 30.90 = 33 12 30.80 = 33 12 30.70 92 47 9.20 92 47 9.20 92 47 9.20 LONGITUDE DEG-MIN-SEC ~ 2 IN. -% PASSING 1 1/2 IN. -3/4 IN. -100 3/8 IN. - 100 100 99 NO. 4 - 99 99 97 NO. 10 - 97 98 _ 95 NO. 40 - 94 97 - 73 NO. 80 - 85 89 NO. 200 - 46 45 57 LIQUID LIMIT - ND - ND **17** PLASTICITY INDEX - NP NP 02 - A-4 (0) - A-4 (0) AASHTO SOIL A-4 (0) UNIFIED SOIL 13.0 10.9 % MOISTURE CONTENT -8.4 3.75 8.0WX ACHMSC (IN) -ACHMBC (IN) -3 - 5 --(IN) -PCCP 6.0 --(IN) -AGG.BASE CRS. CL7 --6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

DATE - 10/26/15 SEQUENCE NO 12 JOB NUMBER - CA0706 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 - 70 SUPPLIER NAME - STATE DISTRICT NO 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/22/1 SAMPLE BY - D.DICKERSON DATE RECEIVED - 09/23/1 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/1 MATERIAL DESC SOIL SURVEY - R VALUE - PAVEMENT SOUNDINGS									
MATERIAL DESC SOI	L SURVE	EY - R VALUE- PAV	EME	ENT SOUNDING	GS				
LAB NUMBER SAMPLE ID TEST STATUS STATION	- - -		-	20152949 S454 INFORMATIC 187+00	ON ONLY -	20152950 S455 INFORMATION ONLY 195+00			
LOCATION	-	06' LT	=	15' LT	<u></u>	06' RT			
DEPTH IN FEET	-	0 - 5	_	0-5	_	0 - 5			
MAT'L COLOR MAT'L TYPE	-	BROWN	#I	BROWN	-	GRAY			
LATITUDE DEG-MIN-	SEC -	33 12 30.60		33 12	30.80	33 12 30.10			
LONGITUDE DEG-MIN-	SEC -	92 46 59.90		92 46	59.90	92 46 50.90			
	IN IN	100	= =		-				
	IN IN		2	100	=	100			
	4 -		-	99	-	97			
	10 -			99	===	95			
	40 -		20 20 20 20	97	-	92			
	80 -		_	77	_	87			
	200 -			52		59			
LIQUID LIMIT	_	21	_	16	-	ND			
PLASTICITY INDEX	-	05	7	01	12	NP			
AASHTO SOIL	-	A-4(0)	-	A-4(0)	=:	A-4(0)			
UNIFIED SOIL	-		_		=				
% MOISTURE CONTENT		16.0	-	12.5		14.8			
ACHMSC	(IN) -	7.0W	20.	3.5W	9.=	7.5			
ACHMBC	(IN) -	3.0	=	1.0	_	. **			
AGG.BASE CRS. CL7	(IN) -	8.0	-	8.0	38	8.5			
	-		=		0=				
	=		2						
			=		2 4				
	_		-						
	_		2						

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

2 20

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

DATE - 10/2 JOB NUMBER - CAO FEDERAL AID NO TO H PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKANS	706 BE ASSIC L SURVE SPECIFIC FE OPE 6TH OT APPL	Y SAMPLE CATION CHECK ST. RECONSTRUCTION	М	(S)	SPEC. YES	CODE - SSRVPS AR - 2014 ID 1 TATE - 70
LOCATION - UNION SAMPLED BY - D.DICK	COUNTY					PLED - 09/22/15 EIVED - 09/23/15
SAMPLE FROM - TEST H					DATE REC	
MATERIAL DESC SOI	L SURVE	Y - R VALUE- PAVI	EME	NT SOUNDING	GS	
LAB NUMBER	177	20152951		20152952	-	20152953
SAMPLE ID	2	S456		S457		S458
TEST STATUS	12		-		ON ONLY -	INFORMATION ONLY
STATION LOCATION	Ē	195+00 15' RT	=	203+00 15' LT	-	203+00 27' LT
DEPTH IN FEET	=	0-5	2	0-5	-	0-5
MAT'L COLOR	= =	GRAY		BROWN	_	BROWN
MAT'L TYPE	=		_		_	
LATITUDE DEG-MIN-S	SEC =	33 12 30.10	22	33 12	31.20 -	33 12 31.30
LONGITUDE DEG-MIN-S	SEC -	92 46 50.80		92 46	41.20	92 46 41.20
% PASSING 2	IN		_		:	
1 1/2	IN		-		770	
3/4	IN	100	-	100	=	
3/8	IN	99	-	99	-	
NO.		97	_	97	-	100
NO.		96	_	94	 -	
NO.	40 =	94	-	90	2 1	
NO. NO. 2	80 -	84	-	79 70	3 4 33	97
NO. 2	200 =	61		70		91
LIQUID LIMIT	=	18	*	29	_	58
PLASTICITY INDEX	=	03	======================================	17	_	37
AASHTO SOIL	-	A-4(0)	2	A-6(9)	_	A-7-6(40)
UNIFIED SOIL		10.0	-	22.2	_	30.0
% MOISTURE CONTENT	-	19.0		23.3		30.2
ACHMSC	(IN) -	5.0W	=	5.0W		5.5
AGG.BASE CRS. CL7	(IN) -	5.0	-	6.0	_	m=:
	127		-		: : : : : : : : : : : : : : : : : : :	
	170		=		0.55	
	12		-		n <u>w</u>	
	_		=			501
	1.7		=			
	√=		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

3

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/26/15 SEQUENCE NO 14 JOB NUMBER - CA0706 MATERIAL CODE - SSR FEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 201 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 70 SUPPLIER NAME - STATE DISTRICT NO 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/									
SAMPLED BY - D.DICK					DATE RE				
SAMPLE FROM - TEST					DATE TE			0/23/13	
MATERIAL DESC SOI		Y - R VALUE- PA	VEME	ENT SOUNDING				,, 03, 20	
LAB NUMBER	_			20152955			50056		
		20152954 S459		20152955 S460		201 - S46	.52956		
SAMPLE ID TEST STATUS	_							V.TIAO IAO	
STATION	_	211+00		211+00		= 219		LON ONLL	
LOCATION	_	15' RT	-	27' RT		06'			
DEPTH IN FEET	_	0-2Z	44	0-5		- 0-5			
MAT'L COLOR		BROWN	77	BROWN		BR/			
MAT'L TYPE	_	DROWN		210711		= 510,			
LATITUDE DEG-MIN-	SEC -	33 12 31.10	_	33 12	31.00	- 3	3 12	31.10	
LONGITUDE DEG-MIN-					31.70	- 9	_	22.10	
% PASSING 2	IN					5 0. 20:			
•	IN	7.00	E 2	100		- 10			
•	IN	100	-	100		10	18		
3/8 NO.	IN	99 95	=	98 95		_	2		
	4 -		77	93		-	7		
NO.	10 - 40 -		2	92		-	2		
NO.			-	86			8		
	80 - 200 -	43	=	56		17	5		
NO.	200 -	43		50					
LIQUID LIMIT	-		7	ND		- 23			
PLASTICITY INDEX	-		-	NP		- 05			
AASHTO SOIL	=	NO TEST	-	A-4(0)		- A-	4(0)		
UNIFIED SOIL	-		=			70. 2 8			
% MOISTURE CONTENT	-	14.2		5.4			19.0		
ACHMSC	(IN) -	4.0W	_	22		= -	7.5WX		
ACHMBC	(IN) -	¥.	-			e	2.5WX		
PCCP	(IN) -	5-5	***			ء ۾ ا	5.0		
AGG.BASE CRS. CL7	(IN) -	5.0	. 5 79			5 :			
	_		-						
	_		÷:			-			
	-		-			=			
	-		-			-			
	-		-			-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

**	* SOIL	SURVEY / PAVEMENT	50	UNDING TEST	REPORT	;
DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO : PURPOSE - SOI: SPEC. REMARKS - NO SUPPLIER NAME - STA' NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN	MATERI. SPEC. SUPPLI COUNTY	CE NO 15 AL CODE - SSRVPS YEAR - 2014 ER ID 1 /STATE - 70 CT NO 07				
LOCATION - UNION					DATE S	SAMPLED - 09/22/15
SAMPLED BY - D.DICK	ERSON					ECEIVED - 09/23/15
SAMPLE FROM - TEST						ESTED - 10/09/15
MATERIAL DESC SOI	L SURVE	Y - R VALUE- PAV	EME	ENT SOUNDING	3S	
LAB NUMBER	-					20152959
SAMPLE ID	-			S463		- S464
TEST STATUS						INFORMATION ONLY
STATION			2	219+00 27 ' LT		227+00
LOCATION DEPTH IN FEET	-		4	0-5		- 06' RT - 0-5
MAT'L COLOR	_	BR/RD	77	BROWN		GRAY
MAT'L TYPE	_		20	2110111		
LATITUDE DEG-MIN-	SEC -	33 12 31.10	~	33 12 3	31.20	33 12 30.80
LONGITUDE DEG-MIN-	SEC -	92 46 22.10		92 46	22.20	92 46 12.70
% PASSING 2	IN). 72			
-	IN	100	=			100
_ ·	IN		-	100		95
	4 -		S.=.	97		95
NO.	10 -	94	150 220	96		95
	40 -		-	95		94
	80 -			91		91
NO.	200 -	50		65		75
LIQUID LIMIT	÷	28	-	25		- 26
	= = = = = = = = = = = = = = = = = = = =	•	-	07		- 10
AASHTO SOIL	=	A-6(4)		A-4(2)		A-4(5)
UNIFIED SOIL	V.=	10.0	-	10.6		26.0
% MOISTURE CONTENT		18.8		12.6		26.8
ACHMSC ASHMBC	(IN) -	4.0W				6.5W 4.25
PCCP	(IN) -		-	22		6.0
AGG.BASE CRS. CL7	(IN) -	6.0	77	###		
carrier carrer carrer		• • •				
	-		_			
	-		=			-
	_		=			12
	-		**			·=

REMARKS -

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

DATE - 10/26/15 SEQUENCE NO 16 JOB NUMBER - CA0706 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 - 70 SUPPLIER NAME - STATE DISTRICT NO 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/22/1 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/1 SAMPLE FROM - TEST HOLE							
MATERIAL DESC SOI	L SURVI	EY - R VALUE- PAV	EME	ENT SOUNDING	GS		
LAB NUMBER	~	20152960	-	20152961	=	20152962	
SAMPLE ID	_	S465	2	S466	221	S467	
TEST STATUS	_	INFORMATION ONLY	¥	INFORMATIO	ON ONLY -	INFORMATION ONLY	
STATION	_	227+00	77	227+00	·	235+00	
LOCATION	_	15' RT	\overline{z}	27' RT	:E)	06' LT	
DEPTH IN FEET	_	0-5	22	0-5	2	0 - 5	
MAT'L COLOR	_	GRAY	-	BR/GR	-	BROWN	
MAT'L TYPE	_		-		-		
LATITUDE DEG-MIN-	SEC -	33 12 30.80	2	33 12	30.70 -	33 12 30.90	
LONGITUDE DEG-MIN-				92 46	12.70	92 46 3.20	
% PASSING 2	IN: -						
	IN				_		
•	IN				_		
-	IN	100	=	100	_	100	
NO.		99	=	99	-	98	
NO.			-	98	-	97	
	40 -		-	95	-	95	
NO.		83	-	89	-	92	
	200 -		1077	78	-	75	
	200	03					
LIQUID LIMIT	-	21	-	29		24	
PLASTICITY INDEX	-		-	15	-	09	
AASHTO SOIL	-	A-4(1)	-	A-6(9)	-	A-4 (4)	
UNIFIED SOIL	-		_				
% MOISTURE CONTENT	_	19.9		22.1		22.8	
ACHMSC	(IN) -	5.0W	=	-5	-	7.0W	
ACHMBC	(IN) -	7.7	2	55	12	3.0W	
PCCP	(IN) -		**	m.m	:**	5.5	
AGG.BASE CRS. CL7	(IN)	7.0	**			m = 1	
	- 55		=		(5)		
			- 4		_		
	S=		-		·	8	
	(6		=				
	72		~		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

2 2 2

MICHAEL BENSON, MATERIALS ENGINEER

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

	5011	2011V21 / 111V2112111		01,011,0 12,01	1122 0112			
DATE - 10/	26/15				SEQUENCI	E NO 17		
JOB NUMBER - CAO	706		MATERIA	L CODE - SSRVPS				
FEDERAL AID NO TO	RAL AID NO TO BE ASSIGNED SPEC. YEAR - 2014							
PURPOSE - SOI					SUPPLIE	R ID 1		
SPEC. REMARKS - NO	SPECIFI	CATION CHECK			COUNTY/S	STATE - 70		
SUPPLIER NAME - STA						Γ NO 07		
NAME OF PROJECT - H	OPE 6TH	ST. RECONSTRUCTION	NC	(S)				
PROJECT ENGINEER - N	OT APPL	ICABLE						
PIT/QUARRY - ARKAN	SAS							
LOCATION - UNION	COUNTY				DATE SA	MPLED - 09/22/15		
SAMPLED BY - D.DICK	ERSON				DATE RE	CEIVED - 09/23/15		
SAMPLE FROM - TEST	HOLE				DATE TE	STED - 10/09/15		
MATERIAL DESC SOI	L SURVE	Y - R VALUE- PAV	EME	NT SOUNDING	3S			
LAB NUMBER	_	20152963	*	20152964		20152965		
SAMPLE ID	_			S469		S470		
TEST STATUS	_		9	INFORMATIO		INFORMATION ONLY		
STATION				235+00		243+00		
LOCATION		15' LT		27' LT		06' RT		
DEPTH IN FEET		0-5	÷.,	0-5		0-5		
MAT'L COLOR	_		-	BROWN		GRAY		
MAT'L TYPE	_		_					
LATITUDE DEG-MIN-	SEC -	33 12 31.00	3.55	33 12 3	31.10	33 12 30.60		
LONGITUDE DEG-MIN-					3.20	92 45 54.00		
% PASSING 2	IN		1022		8			
	IN		-					
	IN	100	-			100		
•	IN	99		100	=			
·	4 -	97	-	99	-	93		
NO.	_		-	99	2	91		
NO.		89	*	99		91		
NO.		87	: 	96	5	89		
	200 -	67		80		68		
LIQUID LIMIT	-	ND	-	26	-	- 24		
PLASTICITY INDEX	-			0,5		07		
AASHTO SOIL	-	A-4(0)	12	A-4(5)		A-4(2)		
UNIFIED SOIL	-							
% MOISTURE CONTENT	-	22.7		23.7		23.2		
ACHMSC	(IN) -	4.5W	*			- 10.0WX		
ACHMBC	(IN) -	**	~			- 4.0WX		
PCCP	(IN) -		5			6.5		
AGG.BASE CRS. CL7	(IN) _	6.0	_					
	-		=			_		
	-		7			-		
	-		-			- ;		
	-		-			_		
	-					-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

<u>-</u> -

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

DATE - 10/26/15 SEQUENCE NO 18 JOB NUMBER - CA0706 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 - 70 SUPPLIER NAME - STATE DISTRICT NO 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/22/1								
SAMPLED BY - D.DICK	ERSON				DATE REC	EIVED - 09/23/15		
SAMPLE FROM - TEST MATERIAL DESC SOI		EY - R VALUE- PAV	EME	ENT SOUNDIN	DATE TES GS	TED - 10/09/15		
LAB NUMBER	-	20152966	1	20152967	3	20152968		
SAMPLE ID	-	S471	22	S472	-	S473		
TEST STATUS	-	INFORMATION ONLY	=	INFORMATIO	ON ONLY -	INFORMATION ONLY		
STATION	-	243+00	-	243+00	-	202100		
LOCATION		15' RT	= =	25' RT	~	06' LT		
DEPTH IN FEET		0-5	2	0-5	-	0-5		
MAT'L COLOR MAT'L TYPE	-	BR/GR	=	BROWN	-	RD/BR		
LATITUDE DEG-MIN-	SEC -	33 12 30.50	2	33 12	30.40	33 12 30.60		
LONGITUDE DEG-MIN-		92 45 53.90			53.90	92 45 44.30		
						is:		
% PASSING 2	IN IN		-		-			
	IN		-	100	-			
	IN	100	22	99	-	100		
NO.		99	42	97	=	99		
NO.		97	**	95	×-:	98		
NO.		94	77	88	=	95		
NO.		78		74	-	92		
NO.		56		51	-	65		
140.	200	30		-		-		
LIQUID LIMIT	-	ND	-	21	_	26		
PLASTICITY INDEX	-	NP	777	04	_	09		
AASHTO SOIL	-	A-4(0)	-	A-4(0)	_	A-4(3)		
UNIFIED SOIL	-		_		_			
% MOISTURE CONTENT	-	16.9		19.7		21.5		
ACHMSC	(IN) -	5.0W		**	1/72	9.5W		
ACHMBC	(IN) -	70	-		92	3.5		
PCCP	(IN) -		-		-	6.0		
AGG.BASE COARSE CL7	(IN) _	6.0	_		-	· · · · · · · · · · · · · · · · · · ·		
	_		-		7-			
	=		-		22			
	-		+		S +			
	-				9.5			
	=		-		-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/2 JOB NUMBER - CAO FEDERAL AID NO TO F PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST I	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPL SAS COUNTY ERSON	Y SAMPLE CATION CHECK ST. RECONSTRUCT ICABLE	MOI	(S)	SPEC. YEA SUPPLIER COUNTY/SI DISTRICT	CODE - SSRVPS R - 2014 ID 1 PATE - 70 NO 07 PLED - 09/22/15 EIVED - 09/23/15
MATERIAL DESC SOI	L SURVE	Y - R VALUE- PA	AVEME	ENT SOUNDING	3S	
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION	- - - -	20152969 S474 INFORMATION ONL 251+00 15' LT	-	20152970 S475 INFORMATIO 251+00 25' LT	ON ONLY -	00 101
DEPTH IN FEET	-		_	0-5	===	0-5
MAT'L COLOR	-	RD/BR	-	BROWN	#3	BROWN
MAT'L TYPE LATITUDE DEG-MIN-9	- -	33 12 30.80	-	33 12	30.90	33 12 30.40
LONGITUDE DEG-MIN-S				_	44.40	92 45 35.10
% PASSING 2 1 1/2 3/4	IN IN IN IN 4 - 10 - 40 - 80 -	100 99 99	-	100 91 84 81 75 65	-	100 99 98 95 91 77
						2.0
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -	31 14 A-6(6) 22.4	5 5 2	25 09 A-4(3) 15.9	- - - -	20 04 A-4(0) 21.6
ACHMSC	(IN) -	5.0W	-		::=:	8.25WX
ACHMBC	(IN) -	eee	-	200	1	4.0X
PCCP	(IN) -				-	6.25
AGG.BASE CRS. CL7	(IN) -	6.0	-	**	· ·	**
	_		=		75 75	
	_		- T			
	-		-		-	
	-		-		:=:	
	-		27/		E	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

3

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

DATE - 10/2					SEQUENCE	
JOB NUMBER - CAO		CODE - SSRVPS				
FEDERAL AID NO TO I		AR - 2014				
		Y SAMPLE			SUPPLIER	
SPEC. REMARKS - NO S		CATION CHECK				ATE - 70
SUPPLIER NAME - STAT					DISTRICT	NO 07
NAME OF PROJECT - H			CTION	(S)		
PROJECT ENGINEER - NO	-	ICABLE				an and a second
PIT/QUARRY - ARKAN						
LOCATION - UNION						PLED - 09/22/15
SAMPLED BY - D.DICK						EIVED - 09/23/15
SAMPLE FROM - TEST I			TO A STEEME	NE COINDING	DATE TEST	TED - 10/09/15
MATERIAL DESC SOI	L SURVE	Y - R VALUE-	PAVEME	INT SOUNDING	35	
LAB NUMBER	1,5	20152972	-	20152973	20	20152974
SAMPLE ID	=======================================	S477	10	S478	4 0	S479
TEST STATUS	N#	INFORMATION O	NLY -	INFORMATIO	N ONLY -	INFORMATION ONLY
STATION	<u>00</u>	259+00		259+00	=:	267+00
LOCATION	=	15' RT	1.50 1.00	27' RT	5 9	18' LT
DEPTH IN FEET	=	0-5		0-5		0-5
MAT'L COLOR	_	BROWN		BROWN	-	BROWN
MAT'L TYPE	36		1.55		50	
LATITUDE DEG-MIN-S					30.30	33 12 30.60
LONGITUDE DEG-MIN-	SEC -	92 45 35.1	.0	92 45	35.10	92 45 25.50
% PASSING 2	IN		-		_	
	IN				-	
	IN. =		-		-	100
· ·	IN.	100	3≅	100	-	98
NO.		99		99	-	97
NO.	10 -	98	9.5 72	99	_	95
NO.	40 -	95	12	99	_	94
NO.	80 -	73	::-	95	_	88
NO.	200 =	57		80		73
		7.0		25		25
LIQUID LIMIT	===	19	# G	25	= =	.09
PLASTICITY INDEX	=			07	-	
AASHTO SOIL	~	A-4(0)	*	A-4(4)		A-4(4)
UNIFIED SOIL		07.0	=	29.1	-	21.1
% MOISTURE CONTENT	-	23.0		29.1		21.1
ACHMSC	(IN) -	5.5W	57.0	===	3 77	12.0W
ACHMBC	(IN) -	***	=		-	12.0W
AGG.BASE CRS. CL7	(IN) -	6.0	-	### ·	-	
	=		-		-	
	=		=		(S)	
	-		= 0		2 -0	ar -
	=======================================		=		>==	
	₩.		5 .0		-	
	-		_		12	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

	. DOIL	BORVET / PAVENENT	50	ONDING TEDI	KHIOKI		
DATE - 10/2 JOB NUMBER - CAO FEDERAL AID NO TO 2 PURPOSE - SOI SPEC. REMARKS - NO 3 SUPPLIER NAME - STA NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/OUARRY - ARKAN	SEQUENCE NO 21 MATERIAL CODE - SSRVPS SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 70 DISTRICT NO 07						
LOCATION - UNION					ከልጥፑ 9	. DME	PLED - 09/22/15
SAMPLED BY - D.DICK							EIVED - 09/23/15
SAMPLE FROM - TEST							ED - 10/09/15
MATERIAL DESC SOI		Y - R VALUE- PAVI	EME	NT SOUNDING			
LAB NUMBER		20152975				9	20152977
SAMPLE ID	2			S481			S482
TEST STATUS		INFORMATION ONLY			N ONLY		
STATION			-	267+00			275+00
LOCATION		27' LT	2	38' LT		20 20	06' RT
DEPTH IN FEET		0-5	4	0-5		90	0-5
MAT'L COLOR MAT'L TYPE	-	BR/GR	H	BR/GR		= 1	BR/GR
LATITUDE DEG-MIN-			=		30.80	=1	33 12 30.20
LONGITUDE DEG-MIN-	SEC =	92 45 25.50		92 45 2	25.50		92 45 16.10
% PASSING 2	IN. =		-			-	
•	IN).55 0000			## S	
	IN. =		3	100		20	
·	IN	100	-	95		-	100
NO.		99	-	92		5 1	100
	10 -		-	87 83		-	″ 99 99
	40 -			79		2	99 97
NO.	80 - 200 -	79	-	66		+0	69
110	200 -	19		00			0,5
LIQUID LIMIT	77	22	-	23		-	25
	=	07	-	06		_	10
AASHTO SOIL	===	A-4(3)	_	A-4(2)		-	A-4(4)
UNIFIED SOIL	H		_				
% MOISTURE CONTENT	· ·	20.8		17.3			20.6
ACHMSC	(IN) -	5.0W	## (F	22		-	9.5WX
ACHMBC	(IN) -	5.E.	_			-	2.5WX
PCCP	(IN) -	7.0	-	### F		-	6.25
AGG.BASE CRS. CL7	(IN) _	7.0	571	75-77		-	(7).7)
			_			-	
	=		20			-	
			-			_	
	× =		-			_	8

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPI ISAS I COUNTY CERSON HOLE	Y SAMPLE CATION CHECK ST. RECONSTRUCT GICABLE	ION		MATERIAL SPEC. YEA SUPPLIER COUNTY/SI DISTRICT DATE SAMI DATE RECI DATE TES	NO 22 CODE - SSRVPS AR - 2014 ID 1 TATE - 70 NO 07 PLED - 09/22/15 EIVED - 09/23/15 TED - 10/09/15
LAB NUMBER				20152979		20152980
SAMPLE ID		S483		S484		S485
TEST STATUS	_	TNFORMATION ONLY				INFORMATION ONLY
STATION	_	275+00		275+00		283+00
LOCATION	_	15' RT	#	25' RT	757	06' LT
DEPTH IN FEET		0-5	_	0-5	=	0-5
MAT'L COLOR MAT'L TYPE	-	BROWN	-	BROWN	=	BR/GR
LATITUDE DEG-MIN-	SEC -	33 12 30.20	_	33 12		33 12 30.30
LONGITUDE DEG-MIN-	SEC -	92 45 16.10		92 45	16.00	92 45 7.00
% PASSING 2	IN		-		_	157
1 1/2	IN		=		-	
3/4	IN		#		-	
3/8		100	_	100	_	100
NO.	4 -	99	-	98	_	99
NO.		98	-	96	_	98
	40 -	97	=	94	-	96
	80 -	84	-	90	-	93
NO.	200 -	56		57		<i>-</i> 71
LIQUID LIMIT	_	ND	=	21		26
PLASTICITY INDEX	-	NP	77	02	525	07
AASHTO SOIL	-	A-4(0)	-	A-4(0)	-	A-4(3)
UNIFIED SOIL	-		_		7	
% MOISTURE CONTENT	-	19.1	-	14.2		27.9
ACHMSC	(IN) -	5.5W	27		1.5	7.5WX
ACHMBC	(IN) -		-		- =	4.25
PCCP	(IN) -		-		:=	6.0
AGG.BASE CRS. CL7	(IN) _	6.0	-			米 金
	_		2		12	
	-		-		18	
	-		**			
	_		2		NT:	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/26/15 SEQUENCE NO 2 JOB NUMBER - CA0706 MATERIAL CODE - S FEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 7 SUPPLIER NAME - STATE DISTRICT NO 0 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS								
LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15 MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS								
	L SURVE	Y - R VALUE- PAV	EMI	ENT. SOUNDING	GS			
LAB NUMBER	-			20152982			20152983	
SAMPLE ID	-			S487			S488	
TEST STATUS	-				ON ONLY		INFORMATION ONLY	
STATION LOCATION		283+00 15' LT	-	283+00 27' LT			291+00 15' RT	
DEPTH IN FEET		0-5	22	0-5		-	0-5	
MAT'L COLOR		BR/GR	-	BR/GR		-	BROWN	
MAT'L TYPE	_		-					
LATITUDE DEG-MIN-					30.50	=	33 12 29.90	
LONGITUDE DEG-MIN-	SEC -	92 45 7.00		92 45	7.00		92 44 57.80	
% PASSING 2	IN: -		\sim			= 0		
	IN		-			=		
	IN			100		20 27	100	
		99	::	94		<u></u>	99	
	4 - 10 -		-	88 81		-	96	
	40 -		-	74		77.7	92 90	
	80 -		_	67		2	73	
	200 -			55		_	45	
I TOUTD I TMT		10		22			20	
LIQUID LIMIT PLASTICITY INDEX	_		7 E	22 04		20	20 03	
AASHTO SOIL	_		-	A-4(0)		-	A-4(0)	
UNIFIED SOIL	-	A-4(0)	-	21 1 (0)		77	A-1(0)	
% MOISTURE CONTENT	_	22.0		18.9		-	19.4	
ACHMSC	(IN) -	7.25W	_			_	13.0W	
AGG.BASE CRS. CL7	(IN) -	3.0					13.0W	
	::E		-			-		
	8 5 5		***			-		
	(E		 			-		
	ii-		-			-		
	35		-			-	9	
			= ==					

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPI SAS I COUNTY KERSON HOLE	CY SAMPLE CATION CHECK IST. RECONSTRUCTION LICABLE		MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC DATE SA DATE RE DATE TE	R ID 1 STATE - 70 T NO 07 MPLED - 09/22/15 CCEIVED - 09/23/15
LAB NUMBER	-	20152984	20152	985	20152986
SAMPLE ID	_	S489	_ S490		S491
TEST STATUS	-	INFORMATION ONLY	- INFOR	MATION ONLY	- INFORMATION ONLY
STATION	-	291+00	299+0		299+00
LOCATION	_	2, 101	_ 06' L	T	15' LT
DEPTH IN FEET	-	0-5	0-5		0-5
MAT'L COLOR MAT'L TYPE	-	BROWN	BROWN		BR/GR
LATITUDE DEG-MIN-	CEC -	33 12 29 80	= 33	12 30.20	- - 33 12 30.20
LONGITUDE DEG-MIN-		92 44 57.70	92	44 48.20	92 44 48.20
		F		10.20	- 11 10.20
% PASSING 2	IN		_		-
	IN		-		-
	IN		- 100		- 100
NO.	4 -	100	- 99		96
NO.	10 -	99	_ 98		- _ 95
NO.	40 -	99	_ 97		_ 93
NO.	80 -	97	- 96		- 80
NO.	200 -	58	64		55
LIQUID LIMIT	_	ND	27		- 19
PLASTICITY INDEX	-	NP	- 09		04
AASHTO SOIL	-	A-4(0)	A-4 (3)	A-4(0)
UNIFIED SOIL	-				
% MOISTURE CONTENT	-	11.8	26	.5	21.4
ACHMSC	(IN) -	7.7	7.5	W	- 4.5W
ACHMBC	(IN) -		2.5		- I
PCCP	(IN) -	35	- 6.0		
AGG.BASE CRS. CL7	(IN) _	**			6.0
	-		ž.		-
			_		-
	_		주 발		-
	-		<u>-</u>		-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

MICHAEL BENSON, MATERIALS ENGINEER

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

2		, , , , , , , , , , , , , , , , , , , ,	-			(4)			
DATE - 10/26/						NO 25			
JOB NUMBER - CA0706			CODE - SSRVPS						
	DERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2014								
PURPOSE - SOIL S						ID 1			
SPEC. REMARKS - NO SPE	CIFI	CATION CHECK			COUNTY/S	TATE - 70			
SUPPLIER NAME - STATE					DISTRICT	NO 07			
NAME OF PROJECT - HOPE	6TH	ST. RECONSTRUCTION	N	(S)					
PROJECT ENGINEER - NOT	APPL	ICABLE							
PIT/QUARRY - ARKANSAS						w*)			
LOCATION - UNION CO	UNTY				DATE SAM	IPLED - 09/22/15			
SAMPLED BY - D.DICKERS	ON					EIVED - 09/23/15			
SAMPLE FROM - TEST HOL						TED - 10/09/15			
MATERIAL DESC SOIL S		V - R WALUE- PAWI	EME	NT SOUNDING		20,03,13			
				MI BOOMBING					
LAB NUMBER	-	20152987	2	20152988	-	20152989			
SAMPLE ID		S492	=	S493	=	S494			
TEST STATUS		INFORMATION ONLY	\overline{a}	INFORMATIO	N ONLY	INFORMATION ONLY			
STATION	-	299+00	77	307+00	-	307+00			
LOCATION	223	25' LT	_	15' RT	=	25' RT			
	=		*	0-5	-	0-5			
MAT'L COLOR		BROWN	=	BR/GR	-	BROWN			
MAT'L TYPE	=	Ditonit	=	211, 311	-				
LATITUDE DEG-MIN-SEC	200	33 12 30.30	÷	33 12 2	29.80	33 12 29.70			
LONGITUDE DEG-MIN-SEC	-	92 44 48.20		92 44	38.50	92 44 38.50			
% PASSING 2 IN			_						
1 1/2 IN			_						
3/4 IN			_		======================================	100			
3/4 IN			_	100	*				
·		100	-		=	99			
NO. 4		100	-	99	3				
	-	97	-	99	===	96			
NO. 40		93	-	98	(*)	94			
NO. 80		89	-	79	===	77			
NO. 200	-	52		40		55			
LIQUID LIMIT	_	25	2	21	-	25			
PLASTICITY INDEX	-	07	-	05	-	10			
AASHTO SOIL	-	A-4(1)	α	A-4(0)	-	A-4(3)			
UNIFIED SOIL	-				_				
% MOISTURE CONTENT	-	16.2	-	21.5	-	14.1			
ACHMSC (IN	1) –	3/4	_	7.5WX	3=	₩ ₩			
ACHMBC (IN	1) -		-	7.0WX	-	= =			
	=		-		-				
	=		-		-				
	-		-		-				
	-		_		-	in the second			
	5		_		:				
	=		_						
	**		_		-				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

=

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

DATE - 10/26/15 JOB NUMBER - CA0706 SEQUENCE NO. = 26 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 - 70 SUPPLIER NAME - STATE DISTRICT NO. - 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS - 20152990 - 20152991 - 20152992 - S495 - S496 - S497 LAB NUMBER SAMPLE ID - S495 TEST STATUS - INFORMATION ONLY - INFORMATION ONLY - INFORMATION ONLY STATION - 315+00 = 315+00 315+00 - 15' LT 315+00 - 25' LT LOCATION - 06' LT 0-5 0-5 BROWN DEPTH IN FEET - 0-5 BROWN - BROWN MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC - 33 12 29.70 = 33 12 30.00 = 33 12 30.10 92 44 29.40 92 44 29.40 92 44 29.40 LONGITUDE DEG-MIN-SEC -2 IN. -% PASSING 1 1/2 IN. -3/4 IN. -3/8 IN. - 100 100 100 4 - 98 99 NO. 99 97 99 _ 97 NO. 10 -_ 98 NO. 40 - 96 94 NO. 80 - 90 - 84 79 NO. 200 - 61 52 53 - ND - ND 21 LIQUID LIMIT PLASTICITY INDEX - NP NP 04 - A-4(0) A-4(0) A-4(0) AASHTO SOIL UNIFIED SOIL 1.4.2 9.8 % MOISTURE CONTENT 27.1 ACHMSC 11.5W - 7.25W (IN) -(IN) -1.5X ACHMBC _ -(IN) -PCCP 5.25 --

5.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

(IN)

--

H

AGG.BASE CRS. CL7

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

DATE - 10/26/15 SEQUENCE NO 27 JOB NUMBER - CA0706 MATERIAL CODE - SSRVE FEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2014 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 70 SUPPLIER NAME - STATE DISTRICT NO 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/23 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09 MATERIAL DESC SOIL SURVEY - R VALUE - PAVEMENT SOUNDINGS							
			цМF				
LAB NUMBER	-	20152993	-	20152994		20152995	
SAMPLE ID	-	S498		S499		S500	
TEST STATUS	_		_			INFORMATION ONLY 323+00	
STATION LOCATION	_		-	323+00 15' RT	-	25' RT	
DEPTH IN FEET		0-5	-	0-5	=	0-5	
MAT'L COLOR	_		-	BROWN	180	BROWN	
MAT'L TYPE	-	BROWN	-	Ditonit		BROWN	
LATITUDE DEG-MIN-		33 12 29.60	-	33 12	29.60	33 12 29.50	
LONGITUDE DEG-MIN-	SEC -	92 44 19.70		92 44	19.70	92 44 19.70	
3/4	IN IN IN	100	E 3E 3	100	-	100	
NO.	4 -	99	77	99	:#:	99	
NO.	10 -	98		99		98	
NO.	40 -	95	2	97		97	
NO.	80 -	90	-	87	9 8 5	93	
NO.	200 -	72		71		73	
LIQUID LIMIT	-	21	-	23	-	ND	
PLASTICITY INDEX	-	04	-	06	=	NP	
AASHTO SOIL	-	A-4(0)	-	A-4(2)	1=1	A-4(0)	
UNIFIED SOIL	-		_				
% MOISTURE CONTENT	_	21.0	Ī	21.2		17.1	
ACHMSC	(IN) -	8.0WX	-	5.5W	· +	7.5	
ASHMBC	(IN) -	3.5X	-		74	22	
PCCP	(IN) -	6.5	-				
AGG.BASE CRS. CL7	(IN)	**	-	6.0	12		
	2		-		:=		
	*		-		3 -		
	= ~				S=		
	=======================================		30				
			_		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/26/15 SEQUENCE NO 28 JOB NUMBER - CA0706 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 - 70 SUPPLIER NAME - STATE DISTRICT NO 07 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15 MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS						
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-LONGITUDE DEG-MIN-	- - - SEC -	S501 INFORMATION ONLY 331+00 06' LT 0-5 BROWN	331+0 15' I 0-5 BR/GI	RMATION ONLY 00 T	- S - II - 34 - 1 - 0 - Bi	
<pre>% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO. NO.</pre>	IN IN IN IN 4 - 10 - 40 -	100 99 98 96 95	- - - 100 - 99 - 99 - 97 - 95 81		•	100 96 93 90 87 79
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -		- 27 - 11 - A-4 - 2:	(0)		22 05 A-4(0) 15.8
ACHMSC ACHMBC PCCP AGG.BASE CRS. CL7	(IN) - (IN) - - - - - -	10.0W 3.0W 6.0	5.2	25W		5.5W 6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO: PURPOSE - SOI: SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPL SAS	Y SAMPLE CATION CHECK ST. RECONSTRUCTION	NC	(S)	SPEC. YEA SUPPLIER COUNTY/SI DISTRICT	NO 29 CODE - SSRVPS AR - 2014 ID 1 CATE - 70 NO 07
SAMPLED BY - D.DICK	ERSON				DATE REC	EIVED - 09/23/15
SAMPLE FROM - TEST : MATERIAL DESC SOI		Y - R VALUE- PAV	EME	NT SOUNDING	DATE TEST	FED - 10/09/15
LAB NUMBER	_			20153000		20153001
SAMPLE ID	_	S504		S505		S506
TEST STATUS	-	INFORMATION ONLY	*	INFORMATIO	N ONLY -	INFORMATION ONLY
STATION	-	340+00	57	347+00	-	347+00
LOCATION	-	25' RT		06' LT	_	15' LT
DEPTH IN FEET		0-5	_	0-5	_	0-5
MAT'L COLOR MAT'L TYPE	-	BROWN	2	BR/GR	-	BR/GR
LATITUDE DEG-MIN-	SEC -	33 12 29.20	2	33 12 2	29.40 -	33 12 29.40
LONGITUDE DEG-MIN-	SEC -	92 43 59.80		92 43	50.80	92 43 50.90
% PASSING 2	IN		_			
	IN		-			
· .	IN		22		20	
3/8	IN	100	-	100	; = 0	100
NO.		99	-	99	#	98
NO.	10 -	99	12	98		92
NO.	40 -	97	-	95	40	83
NO.		93	175	78	e:	75
NO.	200 -	64		68		68
LIQUID LIMIT	_	ND		33	≥ 1	32
PLASTICITY INDEX	-	NP		18	540	19
AASHTO SOIL	-	A-4(0)	-	A-6(10)	72.	A-6(10)
UNIFIED SOIL	-		-		1755 120	
% MOISTURE CONTENT	=	10.3	<u> </u>	28.0		28.3
ACHMSC	(IN) -	Section 2	-	9.5W	-	12.0WX
ACHMBC	(IN) -	33	-	2.5	200	
AGG.BASE CRS. CL7	(IN) -		_	10.0	-	10 mag.
	_		_		-	
	-		-		~	
	_		-		\$ -	
	_		_		æ	
	_		-		· · · · · · · · · · · · · · · · · · ·	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

=

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION	706 BE ASSI L SURVE SPECIFI TE OPE 6TH OT APPL SAS	Y SAMPLE CATION CHECK ST. RECONSTRUCT	rion -	(S)	MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT	NO 30 CODE - SSRVPS AR - 2014 ID 1 TATE - 70 NO 07
SAMPLED BY - D.DICK						EIVED - 09/23/15
SAMPLE FROM - TEST					DATE TEST	
MATERIAL DESC SOI		Y - R VALUE- PA	AVEME	NT SOUNDING		
LAB NUMBER	_			20153003		00153004
SAMPLE ID	_	20153002 S507		S508		20153004 S509
TEST STATUS	_					INFORMATION ONLY
STATION	_		-	355+00		363+00
LOCATION	_		-	15' RT	37 0	06' LT
DEPTH IN FEET	_		-	0-5		0-5
MAT'L COLOR	_	BROWN	-	BROWN	***	BROWN
MAT'L TYPE	-		_		-	
LATITUDE DEG-MIN-	SEC -	33 12 28.90	-	33 12 3	28.90	33 12 28.90
LONGITUDE DEG-MIN-	SEC -	92 43 42.20		92 43	42.20	92 43 32.70
% PASSING 2	IN				_	
	IN				_	
	IN	100	7 <u>2</u> 5		_	100
•	IN	94	: -	100	-	97
NO.	4 -	91	-	95	-	91
NO.	10 -	86	7 <u>2</u> 5	89	_	87
NO.	40 -	80	-	85	_	83
NO.	80 -	56	-	59	_	51
NO.	200 -	37		42		32
LIQUID LIMIT	_	ND		ND	-	21
PLASTICITY INDEX	_	NP	(<u>@</u>	NP	-	04
AASHTO SOIL	_	A-4(0)	~	A-4(0)	96	A-2-4(0)
UNIFIED SOIL	-		<u>⊕</u>	` ,		(e)
% MOISTURE CONTENT	-	17.0	25	17.4	=	11.6
A CLIMC C	/ TNT\ -	10.0WX		4 557		O EMY
ACHMSC ACHMBC	(IN) -	3.0WX	=	4.5W 	_	8.5WX 4.0
AGG.BASE CRS. CL7	(IN) -	7.0		7.0	_	7.0
rico. Bribli Cito I (CI)		7.0	=	,.0	-	,
	-		7		-	
	_				_	
	_		-		_	
	-		= =		_	
	-		2		_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

DATE - 10/ JOB NUMBER - CAO FEDERAL AID NO TO	706 BE ASSI L SURVE SPECIFI TE IRPORT OT APPL SAS COUNTY ERSON HOLE	Y SAMPLE CATION CHECK DR HWY.82E ICABLE	3 (WIDEN		MATERIAL SPEC. YEZ SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC DATE TES	NO. = 31 CODE = SSRVPS AR = 2014 ID. = 1 PATE = 70 NO. = 07 PLED = 09/22/15 EIVED = 09/23/15 TED = 10/09/15
LAB NUMBER	-	20153005	<u>.</u>	20153006	-	20153007
SAMPLE ID	_			S511		S512
TEST STATUS	_					INFORMATION ONLY
STATION		363+00		371+00		371+00
LOCATION	_	15' LT	40			27' RT
DEPTH IN FEET		0-5	<u>~</u>	0-5	-	0-5
MAT'L COLOR	_	BR/GR		BR/GR	-	BR/GR
MAT'L TYPE	-		_		-	
LATITUDE DEG-MIN-S					28.70	33 12 28.70
LONGITUDE DEG-MIN-	SEC -	92 43 32.	.70	92 43	23.30	92 43 23.40
% PASSING 2	IN		-		ш, ш.	
	IN	100	-	100	- 	100
•	IN		-	92	<u>=</u> /	98
· ·	4 -		-	81	-	93
NO.	10 -	83	-	74	=	85
NO.	40 -	81	_	67	.7). 	79
NO.	80 -	50	_	54	======================================	57
NO. 2	200 -	30		35		36
LIQUID LIMIT	-		-	23	5	17
PLASTICITY INDEX	-	• –	11 To	05	-	02
AASHTO SOIL	-	A-2-4(0)		A-2-4(0)	_	A-4(0)
UNIFIED SOIL	-		-			
% MOISTURE CONTENT	-	15.6		21.4		17.1
ACHMSC	(IN) -	3 . OW	-	6.0W	2表	5.25W
AGG.BASE CRS. CL7	(IN) -	6.0	-	8.0	=	6.0
	-		-		8	
	_		_		-	
	_		_		7	
	-		_		2=	
	-		-		-	
			-			
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

DATE - 10/ JOB NUMBER - CAC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - UNION SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	TOG BE ASSI L SURVE SPECIFI TE TOPE 6TH TOT APPI TSAS I COUNTY KERSON HOLE	EY SAMPLE CATION CHECK H ST. RECONSTRUCTION LICABLE		MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT DATE SAN DATE REC DATE TES	ID 1 TATE - 70 NO 07 MPLED - 09/22/15 CEIVED - 09/23/15
LAB NUMBER	-	20153008	= 2015300	9 -	20153010
SAMPLE ID	-		_ S514		S515
TEST STATUS	_				INFORMATION ONLY
STATION	_		379+00		379+00
LOCATION	-	35'RT	06' LT	=	15' LT
DEPTH IN FEET	_	0-5	0-5	5 .	0-5
MAT'L COLOR	_	BROWN	BROWN	<u> </u>	BROWN
MAT'L TYPE	-		5 =	-	
LATITUDE DEG-MIN-	SEC -	33 12 28.70	- 33 1:	2 29.00 =	33 12 29.10
LONGITUDE DEG-MIN-	SEC -	92 43 23.30	92 4	3 14.00	92 43 14.10
3/4 3/8 NO.	IN IN IN IN 10 -	99	- - - 100 - 97 - 94	-	100 96 90 86
	40 -	95	90	= 2	100 mg
	80 -	89	78	= E	64
	200 -	52	39		32
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	- - -		- 25 - 12 - A-6(1)	5 5 5	25 07 A-2-4(0)
% MOISTURE CONTENT		7.1	19.8		28.1
		/ • -			
ACHMSC	(IN) -	お 草	- 6.0W	-	2.0W
ACHMBC	(IN) -	**	2.5	_	1.0
AGG.BASE CRS. CL7	(IN) -		8.0	_	9.0
	8#		=	-	
	-		=	-	
	22		-	_	
	-		-	_	
	9		-	-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/26/15 JOB NUMBER - CA0706 FEDERAL AID NO TO BE ASS PURPOSE - SOIL SURV SPEC. REMARKS - NO SPECIN SUPPLIER NAME - STATE NAME OF PROJECT - HOPE 6' PROJECT ENGINEER - NOT APP PIT/QUARRY - ARKANSAS LOCATION - UNION COUN' SAMPLED BY - D.DICKERSON SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SUR	VEY SAMPLE FICATION CHECK TH ST. RECONSTRUCTION PLICABLE TY		SEQUENCE NO 33 MATERIAL CODE - SSRVPS SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 70 DISTRICT NO 07 DATE SAMPLED - 09/22/15 DATE RECEIVED - 09/23/15 DATE TESTED - 10/09/15 IGS
LAB NUMBER	20153011	- 20153012	- 20153013
SAMPLE ID	- S516	_ S517	- S518
1251 5111100	- INFORMATION ONLY		ON ONLY - INFORMATION ONLY
D11111011	379+00	- 387+00 - 06' RT	- 387+00 - 15' RT
— + — + -·	- 25' LT - 0-5	- 0-5	- 0-5
	BROWN	BROWN	BROWN
MAT'L TYPE	•	-	-
LATITUDE DEG-MIN-SEC	33 12 29.20	- 33 12	28.80 - 33 12 28.70
LONGITUDE DEG-MIN-SEC	92 43 14.00	92 43	4.40 92 43 4.40
% PASSING 2 IN. 1 1/2 IN.		165 115 185	- 400
3/4 IN.		100	- 100
3/8 IN.	93	96	- 94
NO. 4	- 88	92	<u> </u>
	- 86	86	_ 83
	83	79	_ 78
NO 80	- 78	.= 62 36	- 56 35
NO. 200	42	36	· ·
LIQUID LIMIT	- 28	- ND	- ND
	12	- NP	NP
11101110 0011	A-6(2)	- A-4(0)	A-2-4(0)
UNIFIED SOIL % MOISTURE CONTENT	27.4	- 11.9	6.6
ACHMSC (IN)	- ## 560	- 6.0W	1.5
ACHMBC (IN) AGG.BASE CRS. CL7 (IN)		- 3.0 - 8.0	1.5 7.0
AGG. DADE CRD. CEY (IN)		-	
		-	2
	•	-	·-
,	•	-	
•	•	-	~
	-	_	Sec.

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

DATE - 10/26/15 SEQUENCE NO. - 34

JOB NUMBER - CA0706 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 - 70

SUPPLIER NAME - STATE DISTRICT NO. - 07

NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)

PROJECT ENGINEER - NOT APPLICABLE

PIT/QUARRY - ARKANSAS

LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15

MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	-	20153014 S519 INFORMATION ONLY 395+00 06' LT 0-4Z BR/GR		20153015 S520 INFORMATION ONLY 395+00 15' LT 0-5 BROWN	-	20153016 S521 INFORMATION ONLY 403+00 06' RT 0-4Z BROWN 33 12 28.70
LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC	-	92 42 55.10	U.S.	92 42 55.10	-	92 42 45.50
% PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 40 NO. 80 NO. 200		100 87 65 51 38 26		100 98 94 91 89 54		100 94 87 81 75 53
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	# # # # #	ND NP A-1-B(0)	-	ND NP A-4(0)	50 20 20 20 20 20 20 20 20 20 20 20 20 20	ND NP A-2-4(0)
ACHMSC (IN ASCMBC (IN AGG.BASE CRS. CL7 (IN) -	7.0W 2.0 15.0	-	9.0W 2.0		7.0WX 1.5 6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

-

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

			, -							
DATE - 10/26/								ENCE NO.		35
JOB NUMBER - CA0706							MATER	RIAL CODE	-	SSRVPS
FEDERAL AID NO TO BE								. YEAR	-	2014
PURPOSE - SOIL S								LIER ID.	-	1
SPEC. REMARKS - NO SPE	CIFI	CATION	CHI	ECK				TY/STATE	-	70
SUPPLIER NAME - STATE						4-1	DISTE	RICT NO.	-	07
NAME OF PROJECT - HOPE				NSTRUCTION	NC	(S)				
PROJECT ENGINEER - NOT		ICABLE	}							
PIT/QUARRY - ARKANSAS										
LOCATION - UNION CO										09/22/15
SAMPLED BY - D.DICKERS										09/23/15
SAMPLE FROM - TEST HOI								TESTED	-	10/09/15
MATERIAL DESC SOIL S	SURVI	3Y - F	AV S	LUE- PAV	EME	ENT SOUNDIN	IGS			
LAB NUMBER	-	20153	017		\overline{z}	20153018		_		
SAMPLE ID	944	S522			-	S523		- 1		
TEST STATUS	-	INFOR	MAT)	ON ONLY	-	INFORMATI	ON ONT.	Υ -		
STATION	-	403+0	0		•	403+00		-		
LOCATION		15' R	T		·票 900	25' RT		_		
DEPTH IN FEET	375	0-5				0 – 5		_		
MAT'L COLOR	4	BR/GR			-	BROWN		-		
MAT'L TYPE	-				-			_		
LATITUDE DEG-MIN-SEC	24			28.70	-	33 12		=		
LONGITUDE DEG-MIN-SEC	-	92	42	45.50		92 42	45.50			
% PASSING 2 IN	i ne				-			04 0 4		
1 1/2 IN								5 5		
3/4 IN	. =	100			**	100		8		
3/8 IN		98			-	95		22		
NO . 4	-	95			_	87		-		
NO . 10		90			-	83		194 194		
NO . 40		86			_	80		ng.		
мо., 80	-	59			:=	56		::		
NO. 200	-	37				36		GH.		
LIQUID LIMIT		ND				ND		===		
PLASTICITY INDEX	-	NP			_	NP		=		
AASHTO SOIL	-	A-4 (0)		-	A-4(0)		÷		
UNIFIED SOIL	200	·	•					-		
% MOISTURE CONTENT	1	17	.9			16.9		.		
ACHMSC (II	1) –	2.0	W					-		
AGG.BASE CRS. CL7 (II		5.0			-			-		
,	-				14			:=::		
					-			= "		
	-							575 1445		
					-			-		
	: :				H			=		
	-				100			-		
	-				-			-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/09/15 JOB NUMBER - CA0706 FEDERAL AID NO TO BE ASS PURPOSE - SOIL SURV SPEC. REMARKS - NO SPECIE SUPPLIER NAME - STATE NAME OF PROJECT - AIRPORT PROJECT ENGINEER - NOT APP PIT/QUARRY - ARKANSAS LOCATION - UNION COUNT SAMPLED BY - D.DICKERSON SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SUR	EY SAMPLE CICATION CHECK CDR HWY.82B (WIE PLICABLE		SEQUENCE NO 1 MATERIAL CODE - RV SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 70 DISTRICT NO 07 DATE SAMPLED - 09/22/15 DATE RECEIVED - 09/23/15 DATE TESTED - 10/09/15 RESULTS
LAB NUMBER -	20153019	- 20153020	= 20153021
SAMPLE ID -	RV524	_ RV525	- RV526
TEST STATUS -	INFORMATION ONLY	- INFORMATIO	ON ONLY - INFORMATION ONLY
	123+00	- 203+00	- 259+00
	25' LT	- 27' LT	_ 27' RT
	0-5 PROUN	0-5 - DDOWN	0-5 BROWN
MAT'L COLOR - MAT'L TYPE -	BROWN	_ BROWN	BROWN
LATITUDE DEG-MIN-SEC -	33 12 32.80	- - 33 12	31.30 = 33 12 30.30
LONGITUDE DEG-MIN-SEC -			41.20 92 45 35.10
% PASSING 2 IN			
1 1/2 IN		-	- -
3/4 IN		- 100	-
3/8 IN		- 98	_
NO. 4	99	96	100
NO. 10 -	96	94	_ 99
NO. 40 -	95	_ 93	_ 99
NO. 80 -		- 90	- 98
NO. 200 -	71	85	87
LIQUID LIMIT -	22	29	= 28
PLASTICITY INDEX -	06	12	= 09
AASHTO SOIL	A-4(2)	A-6(9)	A-4(7)
UNIFIED SOIL -		-	<u>-</u>
% MOISTURE CONTENT -			
-		-	=
-		-	=
_		_	-
-		-	
-		-	=
-		-	審
_		_	·=·
-		-	——————————————————————————————————————

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

.

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/09/1 JOB NUMBER - CA0706 FEDERAL AID NO TO BE A PURPOSE - SOIL SU SPEC. REMARKS - NO SPEC SUPPLIER NAME - STATE NAME OF PROJECT - AIRPO PROJECT ENGINEER - NOT A PIT/QUARRY - ARKANSAS LOCATION - UNION COU SAMPLED BY - D.DICKERSO SAMPLE FROM - TEST HOLE	SSI RVE IFI RT PPI NTY	EY SAMPLE CATION CHECK DR HWY.82B (WIDENING) (S) LICABLE	SEQUENCE NO 2 MATERIAL CODE - RV SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 70 DISTRICT NO 07 DATE SAMPLED - 09/22/15 DATE RECEIVED - 09/23/15 DATE TESTED - 10/09/15
		EY - RESISTANCE R-VALUE ACTUAL	
			¥
LAB NUMBER	_	20153022	-
SAMPLE ID	-	RV527 -	<u>.</u>
TEST STATUS	-	INFORMATION ONLY - 379+00	-
STATION			=
LOCATION		25' LT	2
DEPTH IN FEET		· ·	¥
MAT'L COLOR MAT'L TYPE	-	BROWN	=
	_	22 12 20 20	
LATITUDE DEG-MIN-SEC			=
LONGITUDE DEG-MIN-SEC	_	92 43 14.00	
% PASSING 2 IN.	-	-	-
1 1/2 IN.	-	-	=
3/4 IN.	-	100 -	
3/8 IN.	-	96	-
NO. 4	-	95 _	-
NO. 10	-	94 _	= =
NO. 40	-	94 _	₩ ⊒
NO. 80	_	92 -	-
NO. 200	-	53	
I TOUTD I THIE		2.0	
LIQUID LIMIT	_	29	7 2
PLASTICITY INDEX		13	2
AASHTO SOIL UNIFIED SOIL	-	A-6(4)	.
	_	. 	Ħ.
% MOISTURE CONTENT	-		
	-	-	17T
	-	-	
	-	-	·=
	-	-	-
	_	-	77. 120
	_	- -	:=:
	-	-	(4)
	-	-	
	-	-	=

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

:= := ::

AASHTO TESTS : T24 T88 T89 T90 T265

: