ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

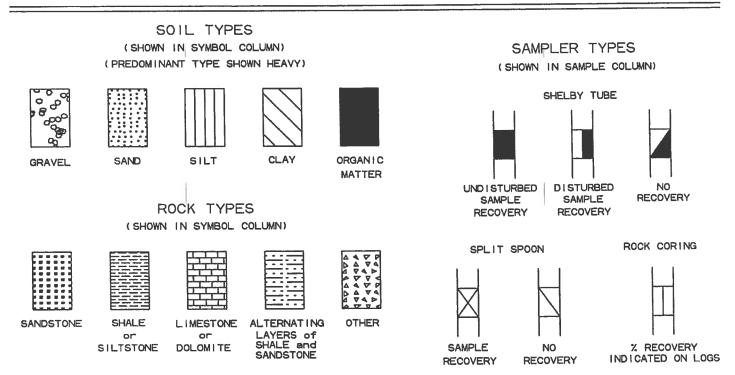


SUBSURFACE INVESTIGATION

STATE JOB NO		030415	
FEDERAL AID PROJEC	CT NO	STPF-0041(31)	
	LITTLE I	RIVER STR. & APPRS. (S)	
STATE HIGHWAY	41	SECTION	2 & 1
IN	LIT	TLE RIVER & SEVIER	COUNTY
LETTING OF		MARCH 23, 2016	

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

LEGEND



TERMS DESCRIBING CONSISTENCY OR CONDITION

GRANU	LAR SOIL		CLAY	CL/	AY-SHALE		SHALE
'N' Value	Density	'N' Value	Consistency	'N' Value	Consistency	'N' Value	Consistency
0-4 5-10 11-30 31-50 Over 50	Very Loose Loose Medium Dense Dense Very Dense	0-1 2-4 5-8 9-15 16-30 31-60 Over 60	Very Soft Soft Medium Stiff Stiff Very Stiff Hard Very Hard	0-1 2-4 5-8 9-15 16-30 31-60 Over 60	Very Soft Soft Medium Stiff Stiff Very Stiff Hard Very Hard	More than Penetrati	on wa: Medium Hard 2' on

- 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.

		IWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.	- 1	BORIN PAGE	G NC		2					
JOB NO. JOB NAM	Œ: L	DIVISION - GEOTECHNICAL SEC. D30415 Little River County Little River Str. & Apprs. S.H. 41		DATE: TYPE O		Jaı	nuary	ollov	-28, 2 w Ste	m Au	ger ing	&
STATION LOCATIO LOGGED	i: 3	309+92 2' Left of Center Line of Construction avid Allen		EQUIPM HAMMI			Aut	oma	50 watic H	amm		
COMPL	ETION	DEPTH: 67.9			1							\dashv
D S Y H C I	M P L E	DESCRIPTION OF MATERIAL SURFACE ELEVATION: 302.0	SOIL GROU	PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	7	% S C R	% R Q D
K.N.	20	SURFACE ELLVATION: 352.5			-							
5		Wet, Loose, Brown Clayey Sand							3.			
15	X	Wet, Loose to Very Loose, Brown Sand							2	0 -1		
20		Wet, Very Loose, Gray and Brown Clayey Sand								0-1		
	20 00 00 00 00 00 00 00 00 00 00 00 00 0	Wet, Loose, Gray Sand with Gravel								4 5-5		
30	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Wet, Dense, Gray Sand with Gravel							1	7 6-15		
	ARKS:					!						

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE			F 2					
JOB N			030415 Little River County		DATE:				y 27	-28,	2015	<u> </u>	
JOB N	IAME:		Little River Str. & Apprs.		TYPE O	F DR			Iollo	w St	em A	uger	&
			S.H. 41									oring	ı
STAT			309+92		EQUIPN	/ENT	` :	_			v/ CI		
			2' Left of Center Line of Construction								Hamı		
			David Allen		НАММ	ER C	ORREC	TION	FAC	TOR:		1.23	
			N DEPTH: 67.9		1	T	Г						
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			Fractured								,	10	U
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			SANDSTONE WITH CLAY LAYERS - Brown, Thin Bedded, Cemented									100	0
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<u> </u>			LIMESTONE WITH CLAY LAYERS - Gray, Thin Bedded, Moderately Hard, Vuggy, with Fractured										
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 			HARD, BROWN AND GRAY CLAYSTONE - Gray, Thin Bedded, Moderately Hard										
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	THE STATE OF THE S			-								86	0
	1/		CLAYSTONE - Gray and Brown to Dark Gray,										
— -	11		Medium Hard										
	1	1	CLAYSTONE - Gray and Brown to Dark Gray,]									
65		1	Medium Hard										
			Light Brown, Poorly Cemented Siltstone	1								100	0
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	77	\coprod	Medium Hard				_						
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JOB N	Ю.		030415 Little River County		DATE:		Ja	nuar	•	-27,			
JOB N	IAME		Little River Str. & Apprs. S.H. 41		ТҮРЕ О	F DR	ILLING	i: H		w Sto amor			
STAT			310+54		EQUIPN	ŒNT	:			350 w			
			4' Left of Center Line of Construction David Allen		HAMMI	ED C	רשממר			atic I		ner 1.23	
	-		N DEPTH: 68.8		IIAMM	SIC C.	JARLE	TION	TAC	TOK.		1,23	
D E	S	S A											
P T H	Y M B O	MPLE	DESCRIPTION OF MATERIAL	SOIL	PLASTIC LIMIT	% MOIST.	<u> </u>	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% S C R	% R Q D
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5		X	Moist, Soft, Brown Clay							2-	-2		
15		<u>X</u>	Wet, Very Loose, Brown Clayey Sand				(Anna Anna Anna Anna Anna Anna Anna Anna			2-	-2		
20		X	Wet, Very Loose, Brown and Gray Sand			-				1.	<u>1</u> -1		
25		X	Wet, Very Loose, Gray Sand with Trace of Gravel							15-4	1 -2		
	60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Wet, Medium Dense, Gray Sand with Gravel								7 -7		
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OB NO.		030415 Little River County		DATE:				y 26	-27, 2	2015		
OB NAME	_	Little River Str. & Apprs.		TYPE O	F DRI	ILLING	: H					&
		S.H. 41							mon		_	
STATION:	;	310+54		EQUIPM	IENT	:			50 w			
		4' Left of Center Line of Construction							atic F			
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	\$	Sand							6	0		
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		Gray, Thin Bedded, Moderately Hard									100	C
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55		CLAYSTONE - Gray to Dark Gray, Medium Hard										
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		Light Brown, Poorly Cemented Siltstone										
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JOB N			030415 Little River County Little River Str. & Apprs.		DATE: TYPE OI	F DRI			_			uger	_{&}
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STATI	ON:		311+38		EQUIPM	IENT	:			50 w			
LOCA			Left of Center Line of Construction							atic I			
			avid Allen		HAMME	ER CO	DRREC	TION	FAC	ror:		1.23	-
COM	PLET		DEPTH: 68	r								-1	\dashv
D E P T H FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURFACE ELEVATION: 298.3	SOIL GROUI	PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% S C R	% R Q D
5		X	Wet, Very Loose, Brown Silty Sand							1	1		
20		X	Wet, Very Loose, Gray Clayey Sand							0	0 -1		
25	6.00 Parties of the control of the c	78. G. G. G.	Gravel with Medium Dense, Gray Sand								6 7-6		
30	88 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		Gravel with some Cemented Sand							100000	11 2-16		
<u> </u>		ACC. 1	Hard, Greenish Gray, Calcareous Cemented Sand										
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REN	/ARI	KS:	* Split-spoon sampler advanced 1.5' by static weig	ht of ha	ammer	925							

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JOB N	Ο.		030415 Little River County		DATE:					8, 20			
JOB N	AME:		Little River Str. & Apprs.		түре о	F DR	ILLING	: H				uger oring	&
			S.H. 41		BOY IIIN	ares ter		CN			ılı Ci v/ Ci	_	
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			David Allen		HAMM	ER C	ORREC'	TION	FAC	ΓOR:		1.23	
			N DEPTH: 68										
D		S											
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Р	м	М	DESCRIPTION OF MATERIAL	SOIL				HH	Ü.F	WO,		S	R
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	0	Ē			PLASTIC LIMIT	% MOIST.	LIQUID	7.	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		_
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<u> </u>	多数												
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-			CLAYSTONE - Gray to Dark Gray, Medium Hard										
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	山		Light Brown, Poorly Cemented Siltstone										
55			CLAYSTONE - Gray to Dark Gray, Medium Hard									400	
			Light Brown, Poorly Cemented Siltstone with									100	0
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	1/	11	CLAYSTONE - Gray and Brown, Medium Hard	1									
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65	1	1										100	0
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			CLAYSTONE - Reddish Brown, Medium Hard										
E.	-		Boring Terminated										
70	MA ID!	<u> </u>	* Split-spoon sampler advanced 1.5' by static weig	ht of b	ammer								1
I KEN	VIAIN)	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ophit-spool sampler advanced 1.5 by static well	in 01 11	a	•							

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JOB N			030415 Little River County		DATE:		11 HOURS	-	ary 2	2-3,	2015		
JOB N			Little River Str. & Apprs.		TYPE O	F DR	ILLING	: H	lollo	w St	em A	Luger	&
			S.H. 41	Ì							nd Co		
STAT	ION:		312+22		EQUIPM	IENT	:	CN	VIE 8	350 v	v/ CN	νŒ	ı
LOCA	TION	:	7' Left of Center Line of Construction	-	-			Au	toma	atic 1	Hamı	mer	1
			racy Henderson		HAMMI	ER C	ORREC	TION	FAC	TOR:		1.23	
The second second	-		N DEPTH: 68.3							- Photos			
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	L	E			PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.		
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25	-		Wet, Medium Dense, Brown and Gray Sand	-							8	İ	
25	200	\times	vvet, Medium Dense, brown and Gray Sand	1						13	2-34		
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-	-		Hard, Greenish Gray, Calcareous Cemented										
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REN	MARK	KS:	* A water stratum was encountered at 17.6'.										

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			DIVISION - GEOTECHNICAL SEC.		PAGE	2		7 2			016		_
JOB N			030415 Little River County		DATE:					2-3, 2			
JOB N	AME:		Little River Str. & Apprs.		TYPE OI	F DRI	ILLING	: H		w Ste			×
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40	//	1	CLAYSTONE - Gray and Brown to Dark Gray,										
L _	1		Medium Hard			Ì						78	0
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		}	Brown to Dark Gray, Medium Hard Claystone										
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 			Boring Terminated										
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REN	MARI	S:	* A water stratum was encountered at 17.6'.										

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JOB N			030415 Little River County		DATE:				uarv	3, 2	015		
JOB N			Little River Str. & Apprs.			OF DR	ILLING		•			uger	&
100.1			S.H. 41								nd Co		
STATI	ION:		313+06		EQUIP	MENT	•	ĊN	ИE 8	350 v	v/ CN	Æ	
			5' Left of Center Line of Construction				•				Hamr		
			David Allen		HAMN	IER C	ORREC	TION	FAC	TOR:		1.23	
		•	N DEPTH: 68.5										
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25	60.00	\$\	Wet, Medium Dense, Gray Sand with Gravel								6		
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30	1	数 /	W. W. B. C. C. W. C. L.	1						0535	10		
	Po 0	3 <u>1</u> X	Wet, Very Dense, Gray Sand with Gravel								60		
	155	T B	\Hard, Greenish Gray Cemented Sand]							(2") 60		
	統部		LIMESTONE WITH CLAY LAYERS - Gray, Thin							(.01")	83	0
-	一边进	E L	Bedded, Moderately Hard, Vuggy, with Fracture	7								_	
 - -	一位	计	Layers	-									
35	RESSE	3								1			
REN	MARK	S:	* A water stratum was encountered at 10.4'.										
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			WY. & TRANS. DEPARTMENT		BORIN PAGE	G NO 2		- 2					
			DIVISION - GEOTECHNICAL SEC.		DATE:				uary	3, 20)15		\dashv
JOB N			030415 Little River County		TYPE O	ו מרו פ						uger	&
JOB N	AME:		Little River Str. & Apprs.		TTEU	r Diki	ILLING	. 12			nd Co		
			S.H. 41		EQUIPM	ENT		CN			/ CN	_	
STATI			313+06		EQUIL	112141	•				lamr		ı
LOCA			5' Left of Center Line of Construction		HAMM	ar Co	ORREC	TION	FAC	OR:		1.23	
			avid Allen		TUTUTU	3100	Sidde		1				\neg
	PLEI		DEPTH: 68.5										
D	s	S											
E P	Υ	A M						[H	WS		%	%
T	М	P	DESCRIPTION OF MATERIAL	SOIL GROU	<u></u>	١.		E	CO	TO	.	S	R Q
Н	В	L	2	GROU	1 🖺	IST	le.	WE	ER	FB	Z	R	Ď
l ''	0 L	E			PLASTIC LIMIT	% MOIST.	LIQUID	2	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.	_	S	SURFACE ELEVATION: 297.1		<u> </u>	%	33	Ā		Z	<u> </u>	- 1	
	NA.		LIMESTONE INTERBEDDED WITH MEDIUM									58	0
	從到		HARD, GRAY CLAYSTONE - Gray, Moderately										
	设设		Hard										
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<u> </u>	1/	11	CLAYSTONE - Gray and Brown to Dark Gray,										
	//	\dagger	Medium Hard				1						
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										Ì		100	0
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Η.	世		Light Brown, Poorly Cemented Siltstone CLAYSTONE - Gray and Brown to Dark Gray,	-									
50	1												
50			Medium Hard	-								400	
<u></u>	-137		Light Brown, Poorly Cemented Siltstone with Occasional Layers of Brown to Dark Gray									100	0
-	-131		Claystone		ŀ								
L .	-1/1/		Claystone									_	
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55		$\ \cdot\ $					Ì						
		$\ \ $	CLAYSTONE - Gray and Brown to Dark Gray,									96	0
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_	一//		CLAYSTONE - Gray and Reddish Brown,										_
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7,	, \dashv		Boring Terminated										
70		KC.	* A water stratum was encountered at 10.4'.										
I KE	IVIAIN.	ıno:	A Marci Stratum Mas emountered at 10.4.										

			WY. & TRANS. DEPARTMENT		BORIN	G NO		F 3					
			DIVISION - GEOTECHNICAL SEC.		PAGE				uary	1 20	115		
JOB N			030415 Little River County Little River Str. & Apprs.		DATE: TYPE O	ב מט						noer	&
JOB N	AWIE		S.H. 41		TTFEO	r DK	ILLINO				id Co		~
STATI	ON		313+90		EQUIPM	(FNT		CN			/ CM		- 1
LOCA			5' Left of Center Line of Construction		LQUIII	LLITE	•				lanın		
			avid Allen		HAMMI	ER CO	ORREC	TION	FAC	TOR:		1.23	
			DEPTH: 73.7										
D		S											
E	S	A							ان			_	
P	Y M	М	DESCRIPTION OF MATERIAL	SOIL				H	Ē.)WS		% S	% R
T	В	Р	DESCRIPTION OF THE VIEW I	GROUI		٦.		DI:	CC	BLC	ا بر	cl	Q
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FT.	L	E S	SURFACE ELEVATION: 295.4		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
			SORI ACE ELEVATION. 290.4			0	HH	Н	<u> </u>	-	-		
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5		X	Moist, Soft, Brown Clay								1		
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			Wet, Very Loose, Brown Silty Sand **										
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<u> </u>													
15	PIRA									4	1 i-6		
L -	80		NAVA AA Jiwa Danaa Barren Clavery Cond with							`			
			Wet, Medium Dense, Brown Clayey Sand with Gravel									·	
-	800	d d	Glavei										
<u> </u>	1900	3											
20	000:	X	Wet, Loose, Gray Sand with Gravel	1	,					-	1 I-5		
	0.00	9/	vvet, Loose, Gray Sand With Graver							"	1-0		
	do c	Į											
	800	9											
	20.0												
25	0.0		Wet, Medium Dense, Gray Sand with Large							4	6		
L.	000	A	Gravel							1 7	3-13		
	d 6) 50											
	o di												
	od	3											
30			Hard, Greenish Gray, Calcareous Cemented	7							13		
			Sand							2	6-25		
	355			1						١,	60 01")		
	統									16	υ (°)	83	0
	協	4	LIMESTONE INTERBEDDED WITH MEDIUM										-
35	統	1	HARD, GRAY CLAYSTONE - Gray, Thin										
	MAR	S:	* Split-spoon sampler advanced 1.5' by static weig	ht of ha	mmer	**	A wat	er s	tratu	ım w	as		
			encountered at 13.2'.										

			HWY. & TRANS. DEPARTMENT		BORIN			- 0				7263a ma=a	-
		-	DIVISION - GEOTECHNICAL SEC.		PAGE	2		7 3		4 20	015		\dashv
JOB N			030415 Little River County	ij.	DATE: TYPE O				uary			11000	۱ پو
JOB N	AME:		Little River Str. & Apprs.		TYPE O	F DR	ILLING	: П	Dis	w Si	em A nd Co	ring	۵
			S.H. 41					C)	ME 8			_	- 1
STATI			313+90		EQUIPM	IENT	:		vie o itoma				
LOCA			5' Left of Center Line of Construction		** > /> /	.n. a	ND D C C		- 1			1.23	ı
- The second sec			David Allen		HAMMI	sk CC	JKKEC	HUN	PACI	OK:		1.23	\dashv
	PLET	_	N DEPTH: 73.7		1					_			\dashv
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-	М	P	DESCRIPTION OF MATERIAL	SOIL	_1			뜅	5	6		S	R
ĺή	В	Ĺ		GROU	l C	ST.	اما	VEŢ	R	F B	Z	C R	Q D
	0	Е	1		PLASTIC LIMIT	% MOIST.	<u>5</u> \	X	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.	L	S	SURFACE ELEVATION: 295.4		되고	%	LIQUID	DR	3	ž	PE		
	TO SE		Bedded, Moderately Hard										
	쐺恕											62	0
<u> </u>	郑朗												
	11		CLAYSTONE - Gray to Dark Gray, Medium Hard	,									
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-	+		Light Brown, Poorly Cemented Siltstone				1					100	0
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_	1/	1	CLAVETONE Boddish Proug Modium Hard									100	0
	7/,	1	CLAYSTONE - Reddish Brown, Medium Hard									1.00	
	7/	1											
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70		1											
RF	MARI	KS.	* Split-spoon sampler advanced 1.5' by static weig	ht of ha	ammer	**	A wat	ers	tratı	ım v	vas		
1			encountered at 13.2'.							112			

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G NO		F 3					
JOB N	******		030415 Little River County		DATE:				uary	4, 2	015		
JOB N			Little River Str. & Apprs.		TYPE O	F DR			ollo	w St	em A		
			S.H. 41							amoı		_	
STATI			313+90		EQUIPM	IENT	:			350 v			
LOCA			5' Left of Center Line of Construction David Allen		*** * * * * *	-D 04	DDEC			atic I		ner 1.23	
			N DEPTH: 73.7		HAMMI	SR CC	DRREC	HON	FAC	TOR:		1.23	
D		S	1201111.73.7		T							-	
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P	М	M	DESCRIPTION OF MATERIAL	SOIL				Ħ	En	ΜC		% S	% R
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	0 L	E			PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	R	D
FT.		S	SURFACE ELEVATION: 295.4		7.1	%	当島	DR	EB	8	PE		
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105		· c ·	 * Split-spoon sampler advanced 1.5' by static weight	at of be	nme-	** ^	June-	or of	roti i	m	26		<u></u>
I VEIN	I//L/L/	٥.	encountered at 13.2'.	it Of Ha	milei.	~	י אימונ	<i>/</i> 1 34	alu	111 440	u o		

ARKANSAS HWY. & TRANS. DEPARTMENT	1	BORING PAGE	3 NO		7 2					
MATERIALS DIVISION - GEOTECHNICAL SEC. JOB NO. 030415 Little River County		DATE:		_	_	ry 9	-10,	2015		\dashv
JOB NAME: Little River Str. & Apprs.		TYPE O	DRI			ollo	w Ste	em A	uger	&
S.H. 41								id Co	_	
STATION: 314+74		EQUIPM	IENT	:				/ CN		
LOCATION: 10' Left of Center Line of Construction						1		lamn		Ì
LOGGED BY: Stanley Bates		HAMME	R C	DRREC	TION	FAC	OR:		1.23	\dashv
COMPLETION DEPTH: 64	1								Т	-
D S A										
D Y M	2011				 	J.FT	WS		% S	% R
T B P DESCRIPTION OF MATERIAL	SOIL		نا ا		igi	CC	BLC	ا بر	C	Q
		STIC	OIS		M	PE	NO. OF BLOWS	6-II	R	D
FT. C E		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	o N	PER 6-IN.		
TI. O SON ACE ELEVATION: 230.11		1	1							
Wet, Very Loose, Brown Silty Sand		-					1	0 I-1		
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Wet, Very Loose, Brown Sand *										
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\$0.00 P								•		
Wet, Loose, Brown Sand with Gravel										
:(4):										
3:8:								2		
20								2 6-7		
Wet, Medium Dense, Reddish Brown Sand with	1									
Gravel										
								5		
25	_						1	3-18		
Wet, Dense, Brown and Gray Sand with Grave										
ρώφιδ (δ): (\$2								10		
30							2	20-38		
								28		+-
Hard, Greenish Gray Cemented Sand								(.01")	20	0 0
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35										
REMARKS: * A water stratum was encountered at 12.8'.										

			WY. & TRANS. DEPARTMENT		BORIN	G NO		7 2					
			DIVISION - GEOTECHNICAL SEC.		PAGE DATE:				rv 9.	-10	2015		
JOB N			030415 Little River County Little River Str. & Apprs.		TYPE C	F DRI							&
JOB N	AME:		S.H. 41			, ,,,	DEIIVO		Dia	mor	nd Co	ring	
STATI	ON		314+74		EQUIPA	1ENT	•	CN	Æ8	50 v	v/ CN	Œ	
LOCA			10' Left of Center Line of Construction		,			Au	toma	itic I	Hamr	ner	
			tanley Bates		НАММ	ER C	ORREC	TION	FACT	OR:		1.23	_
			DEPTH: 64										
D		s											
E	S Y	Α							H	S/		%	%
Р	м	М	DESCRIPTION OF MATERIAL	SOIL			İ	居	Ü.	NO.		S	R
T H	В	P L		GROU	1 \(\text{\tin}\xi}\\ \text{\tin}\}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} \endress{\text{\tinit}}}}}}}}}}}}} \end{\text{\texi}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\t	ST.		VEK	ER (F BI	Z	C R	QD
П	0	Ē			PLASTIC LIMIT	% MOIST.	LIQUID	7	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.	L		SURFACE ELEVATION: 296.7		F E	%	121	ă	<u>""</u>	ž	PE		_
	111												
			CLAYSTONE WITH HARD, GREENISH GRAY	1								38	0
<u> </u>			CEMENTED SAND - Gray, Medium Hard								,		
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	//	1	CLAYSTONE - Gray to Dark Gray, Medium Hard										
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			CLAYSTONE - Gray to Dark Gray, Medium Hard	1								100	0
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	711		Light Brown, Poorly Cemented Siltstone										
	711											82	0
	ZTT.	41	A Land	1									
			CLAYSTONE - Gray and Brown, Medium Hard	_								_	
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	1		CLAYSTONE - Gray and Brown, Medium Hard									100	0
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		11										40	
		11	CLAYSTONE - Reddish Brown, Medium Hard									100	0
		1			1								
								-		+-		+	+-
65			Boring Terminated										
					-								
70													
RE	MAR	KS:	* A water stratum was encountered at 12.8'.										

	HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G NO 1		F 2					
OB NO.	030415 Little River County		DATE:			-	ary	10, 2	2015		
	Little River Str. & Apprs.		TYPE O	F DR	ILLING	: H	lollo	w St	em A	uger	&
	S.H. 41					C)			nd Co	_	
TATION:	315+58		EQUIPM	IENT	:				v/ CN Hamr		
OCATION:	Center Line of Construction Stanley Bates		HAMM	ER CO	ORREC					1.23	
	N DEPTH: 63.9										
D S S							1				
						١	FT.	VS		%	%
P M M T M P	DESCRIPTION OF MATERIAL	SOIL GROU				E	CL	LO LO		S C	R Q
H B L		GROOM	PLASTIC LIMIT	% MOIST.	9 -	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	R	Ď
T. L S	SURFACE ELEVATION: 298.2		N N	W %	LIQUID)RY	BS	6	ER		
1.	SURFACE ELEVATION: 290.2		1 -	8,	-						
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	Wet, Very Loose, Brown Silty Sand *										
	Wet, very Loose, Blown Silty Sailu										
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	Wet, Loose, Brown Sand										
	(10, 2000, 2.01)										
20								-	3 6-8		
— — — — — — — — — — — — — — — — — — —	4										
9.0											
25	Wet, Medium Dense to Loose, Brown Sand with Gravel								2		
	Glavei								2-3		
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30	Wet, Very Dense, Brown Sand with Gravel							1 -	16 20-34		
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-										0	
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35											\perp
	* A water stratum was encountered at 6.1'.										

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.	1	BORIN PAGE			F 2					
IOB N			030415 Little River County		DATE:				ary	10, 2	2015		
JOB N			Little River Str. & Apprs.		TYPE O	F DRI	LLING	: H					
			S.H. 41									oring	
STATI	ON:		315+58		EQUIPM	IENT:	:				v/ CN		
LOCA			Center Line of Construction								Hami	1.23	
		_	Stanley Bates		HAMMI	SR CC	RREC	HON	FAC	IUK:		1.23	
	PLEI		N DEPTH: 63.9	T									
D E	S	S											
Р	Υ	M	DESCRIPTION OF MATERIAL					E	Ŧ.	WS		% S	% R
T	M B	P	DESCRIPTION OF WATERIAL	SOIL	$\left \cdot \right _{C}$	a a		ig:	CC	BLO	7	C	ζ
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FT.	L	E S	SURFACE ELEVATION: 298.2		PLASTIC LIMIT	% MOIST	LIQUID LIMIT)RY	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
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			Hard, Greenish Gray Cemented Sand										
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		1	CLAYSTONE - Gray, Medium Hard										
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70,		11											
		$\left\{ \ \right\}$	CLAYSTONE - Gray, Medium Hard									52	(
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50	111												
	111		Light Brown, Poorly Cemented Siltstone										
	111		2.3 2,									64	
	Щ		CLAYSTONE - Brown and Gray, Medium Hard	_									
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			CLAYSTONE - Gray and Reddish Brown,									100)
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	MY. & TRANS. DEPARTMENT		BORIN PAGE	3 NO		. 2					
	IVISION - GEOTECHNICAL SEC. 30415 Little River County		DATE:	•			ary 1	1, 20	15		
	ttle River Str. & Apprs.		TYPE O	F DRI	LLING	: Н					&
	.H. 41							mono		_	
	16+42		EQUIPM	ENT	:			50 w/			
	9' Left of Center Line of Construction		l					tic H			
LOGGED BY: Sta			HAMMI	ER CO	ORREC"	NOIT	FACT	OR:		1.23	
COMPLETION I	DEPTH: 68.7								-		\dashv
D S A M P L	DESCRIPTION OF MATERIAL	SOIL GROU	1≌	IST.	Θ,	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	-IN.	% S C R	% R Q D
FT. O E	SURFACE ELEVATION: 296.3		PLASTIC LIMIT	% MOIST.	LIQUID	DRY	LBS	NO.	PER 6-IN.		
	Moist, Medium Stiff, Brown Clay							1 2-	3		
10	Wet, Very Loose, Gray and Brown Clayey Silt *							0-			
	Wet, Very Loose, Gray Silty Sand							0	-1		
20									3 -14		
25 %	Wet, Medium Dense to Dense, Brown Sand with Gravel								5 I-19		
30								7	20 60 3")		
35	Hard, Greenish Gray and Brown, Calcareous Cemented Sand								60		
REMARKS: *	* Split-spoon sampler advanced 1.5' by static weig encountered at 12.2'.	ht of h	ammei	**	A wa	ter s	tratu	ım w	as		

			HWY. & TRANS. DEPARTMENT		BORIN PAGE). 9 OF	2					
			DIVISION - GEOTECHNICAL SEC.		PAGE DATE:				arv 1	1, 20	015		一
JOB N			030415 Little River County		DATE: TYPE O	F DR1						uger	<u>&</u>
JOB N	AME:		Little River Str. & Apprs. S.H. 41	1	11120	DI	LLING			mon			
OTT A FINI	IOM.		316+42		EQUIPN	/ENT	·	CM	Æ 8	50 w	/ CM	Œ	-
STATI			19' Left of Center Line of Construction		2000			Au	toma	itic F	Iamn	ner	
			Stanley Bates		HAMM	ER C	ORREC	ΓΙΟΝ	FACT	ror:		1.23	
		_	N DEPTH: 68.7										
		s	The state of the s										
D E	S	A							ان	10		,	,
P	Y	М	DESCRIPTION OF MATERIAL	SOIL				Ħ	E	Š.		% S	% R
Т	M B	Р	DECORA FICIA OF WINTERWISE	GROUI		_H		EIG	S	BL	7	C	Q
H	0	L	ì) E	OIS	IE E	§	PE	OF	[-]	R	D
	L	E S	OUDEA OF ELEVATIONS 2006 2		PLASTIC	% MOIST.	LIQUID)RY	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	1	
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L -		/											
	1500	1	LIMESTONE INTERBEDDED WITH MEDIUM	1									
40	鋌		HARD, BROWN AND GRAY CLAYSTONE -										
	//	1	Gray, Thin Bedded, Moderately Hard									32	0
	\mathbb{N}	1	CLAYSTONE - Gray and Brown, Medium Hard									02	Ŭ
<u></u>	1/	1											
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45	1		CLAYSTONE - Gray and Brown, Medium Hard	1									
45	-												_
-	-		Light Brown, Poorly Cemented Siltstone									68	0
-	-												1
-	#		CLAYSTONE - Gray and Brown, Medium Hard	1									
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		11										100	0
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-	-/\	\vee										100	0
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\vdash	-N	\mathbf{Y}	Adadional Land										
_	-/		CLAYSTONE - Reddish Brown, Medium Hard		- 1	-							
65	-/\												
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L	4	+	Boring Terminated		+	\dashv	\dashv	+		+		1	1
70						\perp							
RE	MAF	KS:	* Split-spoon sampler advanced 1.5' by static weig	ght of h	amme	Γ. **	A wa	ter s	strati	um v	vas		
1			encountered at 12.2'.										

ARK	ANS	ASI	HWY. & TRANS. DEPARTMENT		BORI	IG N	o. 10						
MATE	ERIA	LS	DIVISION - GEOTECHNICAL SEC.		PAGE	1		F 2					_
JOB N	O.		030415 Little River County		DATE:		Feb.				-		
JOB N	AME:		Little River Str. & Apprs.		TYPE	OF DR	ILLING	: H					
			S.H. 41							amor			
STATI			317+26		EQUIP	MENT	:			350 W			1
			5' Left of Center Line of Construction					Au	tom	atic I			
		-	Stanley Bates		HAMN	ER C	ORREC	TION	FAC	TOR:		1.23	
COM	PLET	OI	N DEPTH: 68.3										
D	S	S											
E	Y	Α							Ţ.	S		%	%
P T	М	M P	DESCRIPTION OF MATERIAL	SOIL				HH	UF	№		S	R
H	В	L		GROU	P ပ	ST.		EIG	RC	BL	ż	C	Q
	0	Ē			IIS F	Ö		K	PE.	NO. OF BLOWS	-9 T	R	D
FT.	L		SURFACE ELEVATION: 298.1		PLASTIC I IMIT	% MOIST	LIQUID	DRY WEIGHT	LBS PER CU.FT.	8 0 0	PER 6-IN.		Ų.
<u> </u>					1								
<u> </u>			Wet, Very Loose, Brown Clayey Sand with some								2		
5		X	Organic Matter								-2		
\vdash					1					-	_		
10		\bigvee]							3		
		\triangle								0	-1		
15		7	Wet, Very Loose, Brown Sand **								0		
15		X								0-	-0*	1	
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20	SOFO P									1	1		
L _	0 0 U									~			
	369		Wet, Loose, Brown and Gray Sand with Gravel										
	940.	4	•										
Γ-	8.0												
25	0 Pg			1						1	5		
<u></u>	80.0		Į.							16	-26		
<u> </u>	o o		Wet, Dense, Brown Sand with Gravel										
-	. 00:4		wet, Dense, blown Sand with Glaver										
 	6 P6	N N				1							
	0.00	4		-							7		
30	00	ĮΧ	Wet, Medium Dense, Brown and Gray Sand with		1)-14		
<u> </u>	20. 8	Y	Gravel							"	•		
<u></u>	90.D.	4]									
			Ŷ										
35		X								-	60		
	ARK	S:	* Split-spoon sampler advanced 1.5' by static weigh	nt of ha	mmer	. ** /	\ wate	er st	ratu	m w	as		-
			encountered at 14.2'.										
							-		·.	_		-	

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE			F 2	•		-		
JOB N			030415 Little River County		DATE:			24 &	M	arch	2. 20	115	
JOB N			Little River Str. & Apprs.		TYPE O	F DR					-		&
			S.H. 41									oring	
STAT	ION:		317+26		EQUIPN	IENT	`:	CM	E 8	50 v	v/ CN	Æ	
LOCA			5' Left of Center Line of Construction					Aut	oma	atic I	Iamı	ner	
			Stanley Bates		HAMMI	ER C	ORREC	TION I	AC	ror:		1.23	
COM	PLET		N DEPTH: 68.3										
D	s	S											
E P	Υ	A M							T.	S		%	%
T	М	P	DESCRIPTION OF MATERIAL	SOIL				HE	.U.	NO.		S C	R
Н	ВО	L		GROUE	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	VEI	LBS PER CU.FT	NO. OF BLOWS	Ä	C R	Q D
	L	E			AS7	MO	100 TIM	7	SP	0.0	PER 6-IN.		
FT.		S	SURFACE ELEVATION: 298.1		불급	%	33	Ä	3	ž			
			Hard, Greenish Gray and Brown, Cemented Sand							6 (5	")		
			Carlo									81	0
			CLAVCTONE Dod Own Mading Had										
40	$\langle \mathcal{A} \rangle$		CLAYSTONE - Dark Gray, Medium Hard										
												99	0
			CLAYSTONE - Gray and Brown, Medium Hard										
<u> </u>													
45			Light Brown, Poorly Cemented Siltstone to										
			Unconsolidated Silt									50	0
			i										
50													
			CLAYSTONE - Gray and Brown, Medium Hard									80	0
L -													
<u> </u>													
55													:
<u> </u>			CLAYSTONE - Reddish Brown and Gray, Medium Hard									99	0
			Medium Hard			:							
<u> </u>				ļ									
	1			1									
60													
<u> </u>							1					76	0
<u> </u>													
L -			CLAYSTONE - Reddish Brown, Medium Hard		1								
65													
<u> </u>												100	0
L .	///												
L -													
			Boring Terminated										
70													
REM	ARK	S: '	'Split-spoon sampler advanced 1.5' by static weigh encountered at 14.2'.	t of har	nmer.	** A	wate	r stra	tun	n wa	IS		

ARKANSAS HWY. & TRANS. DEPARTMENT		ORING AGE	NC 1		2			·		
MATERIALS DIVISION - GEOTECHNICAL SEC. JOB NO. 030415 Little River County		AGE ATE:		-		ch 3	, 201	.5		
JOB NO. 030415 Little River County JOB NAME: Little River Str. & Apprs.		YPE OF	DRI			ollo	w Ste	m A	uger	&
S.H. 41						Dia	mon	d Co	ring	
STATION: 318+10	E	QUIPM	ENT:					/ CM		
LOCATION: 6' Left of Center Line of Construction								lamn		
LOGGED BY: Stanley Bates	F	IAMME	R CC	RREC	LION	FACT	OR:]	.23	\dashv
COMPLETION DEPTH: 65.1		-							Т	
D s S										
1 5 1 Y 1 A 1					 	F.	WS		%	%
DESCRIPTION OF MATERIAL SO	OIL				GE	C.	ro		S	R Q
1 1 B 1	GROUP	LIC	IST	ےوا	WEI	ER	F B	Z	C R	Ď
		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.		
FT. S SURFACE ELEVATION: 299.8			%	日日	Δ_	J	Z	Д.		\dashv
									Ì	
Moist, Soft, Brown and Gray Sandy Clay with								0		
some Organic Matter								-1		Į
				1						I
								1		
10								-1		
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15 Wet, Very Loose, Brown Silty Sand *								1-1		
			1							
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20							-	6-8		
0:95:					-					
								1.1		
25							1	14 6-21		
Wet, Medium Dense to Dense, Brown Sand with							'			
Gravel										
				1				46		
30							-4	12 6-18		
								10-10		
[00] 200 Pg q										İ
	1									
Wet, Dense, Brown Sand										
35	-						-	6	_	
REMARKS: * A water stratum was encountered at 12.4'.		<u> </u>								
THE WAY TO SEE THE STATE OF THE SECOND SECON				_						

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE			F 2					
JOB N		_	030415 Little River County		DATE:		. 0	_	rch 3	3, 20	15		ᅥ
JOB N			Little River Str. & Apprs.		TYPE O	F DR	ILLING					uger	&
			S.H. 41						Dia	amoi	nd Co	oring	
STAT			318+10		EQUIPM	IENT	:			50 v			
LOCA			6' Left of Center Line of Construction Stanley Bates		****	.n. (7/	DDDEC			atic I			- 1
-	THE RESERVE TO A PERSON NAMED IN		V DEPTH: 65.1		HAMMI	RCC	JRREC	NOIT	FAC	IOR:		1.23	\dashv
D		S	1 3 2 1 1 1 3 1 1		T								\dashv
E	S	Α							ن	10			
P T	М	M P	DESCRIPTION OF MATERIAL	SOIL				臣	UF	OW:		% S	% R
Н	В	Ĺ		GROUI	ှဲြဥ	ST.	LIQUID	Æ	LBS PER CU.FT.	NO. OF BLOWS	ż	C R	Q D
	L	Е			PLASTIC LIMIT	% MOIST.		25	S PI	0.0	PER 6-IN.		
∘FT.		S	SURFACE ELEVATION: 299.8 Hard, Greenish Gray and Brown, Claystone		12 13	%	33	ä	<u> </u>	Ž 24	DE DE		\dashv
		\widehat{T}	riaid, Greenish Gray and Brown, Claystone							24-	20		\dashv
			CLAYSTONE - Gray, Medium Hard									89	0
40													
-40		-											
-													
			CLAYSTONE - Gray to Dark Gray, Medium Hard			İ						92	0
45													
			Light Brown, Poorly Cemented Siltstone									52	0
 50													
_50	//	-											
			ä									100	0
55		_											_
			CLAYSTONE- Gray and Reddish Brown,									42	0
			Medium Hard									42	١
60													
		1											
												100	0
65	77	Щ	Doing Town in And	-		_				_			
- -			Boring Terminated										
70							- The School						
DEM	ARK	S: '	A water stratum was encountered at 12.4'.								echte-	= 100	

ARKANSAS HWY. & TRANS. DEPARTMENT	BORING NO. 12 PAGE 1 OF 2
MATERIALS DIVISION - GEOTECHNICAL SEC. JOB NO. 030415 Little River County	PAGE 1 OF 2 DATE: March 10, 2015
JOB NAME: Little River Str. & Apprs.	TYPE OF DRILLING: Hollow Stem Auger &
S.H. 41	Diamond Coring
STATION: 318+94	EQUIPMENT: CME 850 w/ CME
LOCATION: 10' Left of Center Line of Construction	Automatic Hammer
LOGGED BY: Tracy Henderson	HAMMER CORRECTION FACTOR: 1.23
COMPLETION DEPTH: 69	
D S S A	
P T M	SOIL
T P BESSIAL HOLD OF MALE LAND	GROUP C LE DE DE LE C Q
HOE	PLASTIC LIMIT % MOIST. LIQUID LIMIT DRY WEIGHT DRY WEIGHT NO. OF BLOWS A O S % A O S % C O S %
FT. L S SURFACE ELEVATION: 300.6	BLASTIC LIMIT % MOIST. LIQUID LIMIT DRY WEIC LIBS PER C NO. OF BI PER 6-IN. D A
Moist, Soft, Brown Clay with Sand	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
	1-1
Not Novel and Brown Silty Clayov Say	nd *
Wet, Very Loose, Brown Silty, Clayey Sar	
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	0-1
<u> </u>	
<u></u>	
20 Wet, Very Loose, Brown Silty Sand	
25	15-18
Wet, Dense, Brown Sand with Gravel	
30 10:20	
Gravel with Gray and Brown Sand	18-19
Oraver with Gray and Brown Gand	
Wet, Dense, Brown and Gray Sand	
35	8
REMARKS: * A water stratum was encountered at 12.7	n .

DOB NO. DOB NO. DOB NAME: Little River Str. & Apprs. Little River Str. & Apprs. Sh. 41				HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G NO		. 2					
DB NAME Little River Str. & Apprs S.H. 41										ch 1	0, 20	15		\neg
S.H. 41 STATION: 318+94 LOCATION: 10' Left of Center Line of Construction LOGGED BY: Tracy Henderson COMPLETION DEPTH: 69 D S S A A D DESCRIPTION OF MATERIAL T B D L SURFACE ELEVATION: 300.6 Very Hard, Gray and Brown, Medium Hard CLAYSTONE - Greenish Gray and Brown, Medium Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard				•			F DR				-		uger	&
LOCATION: 10' Left of Center Line of Construction LOGGED BY: Tracy Henderson D S S A P M DESCRIPTION OF MATERIAL SOIL GROUP T B L S SURFACE ELEVATION: 300.6 Very Hard, Gray and Brown, Clay CLAYSTONE - Greenish Gray and Brown, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard				* -										
LOGGID BY: Tracy Henderson Automatic Hammer HAMMER CORRECTION FACTOR: 1.23 Automatic Hammer HAMMER CORRECTION FACTOR: 1.23 DESCRIPTION DEPTH: 69 DESCRIPTION OF MATERIAL THE PROPERTY OF T	STATI	ION:				EQUIPM	IENT	:	CN	Æ 8	50 w	/ CN	Æ	
LOGGED BY: Tracy Henderson	LOCA	TION				,			Au	toma	itic F	lamr	ner	
D S S A DESCRIPTION OF MATERIAL SOIL GROUP						HAMMI	ER C	ORREC	TION	FAC	ror:		1.23	
DESCRIPTION OF MATERIAL SOIL SO														
E P T M P T B D L FT: C S SURFACE ELEVATION: 300.6 Very Hard, Gray and Brown, Clay CLAYSTONE - Gray to Dark Gray, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard														
P T N D L SURFACE ELEVATION: 300.6 SURFACE ELEVATION: 300.6 Very Hard, Gray and Brown, Clay CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard														
Very Hard, Gray and Brown, Clay CLAYSTONE - Greenish Gray and Brown, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorty Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Brown, Medium Hard 100 0				DESCRIPTION OF MATERIAL	POII				Ħ	E	WS			
Very Hard, Gray and Brown, Clay CLAYSTONE - Greenish Gray and Brown, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorty Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Brown, Medium Hard 100 0		1	Р	DESCRIPTION OF WATERWAY		P .	ن ا		ISI.	5	31.0	ایر	č	
Very Hard, Gray and Brown, Clay CLAYSTONE - Greenish Gray and Brown, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorty Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Brown, Medium Hard 100 0	H		L	72		1≌	SIC	BH	WE	PER	OF I	5		
Very Hard, Gray and Brown, Clay CLAYSTONE - Greenish Gray and Brown, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorty Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Brown, Medium Hard 100 0						MAS	×	15 Z	RY	BS	0.0	ER		
CLAYSTONE - Greenish Gray and Brown, Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone To 0 Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard 100 0 CLAYSTONE - Reddish Brown, Medium Hard	F11		8			르크	8	니니	Ω	7				\dashv
Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard 100 0		7	X	Very Hard, Gray and Brown, Clay							32-	64		
Medium Hard CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard 100 0				CLAYSTONE - Greenish Gray and Brown										
CLAYSTONE - Gray to Dark Gray, Medium Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard 100 0		//						1					90	0
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Hard with Occassional Layer of Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone To 0 Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone 100 0 CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Reddish Brown, Medium Hard	40													
Siltstone Light Brown, Poorly Cemented Siltstone To 0 Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone 100 0 CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Reddish Brown, Medium Hard 100 0							}							
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Light Brown, Poorly Cemented Siltstone Light Brown, Poorly Cemented Siltstone 100 0 CLAYSTONE - Reddish Brown, Medium Hard CLAYSTONE - Brown, Medium Hard 100 0 CLAYSTONE - Reddish Brown, Medium Hard	 			Siltstone										
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CLAYSTONE - Brown, Medium Hard CLAYSTONE - Reddish Brown, Medium Hard 100 0	55			CLAYSTONE - Reddish Brown, Medium Hard									100	0
CLAYSTONE - Reddish Brown, Medium Hard	60			CLAYSTONE - Brown, Medium Hard									100	0
Poring Terminated	65												100	0
70 Boning Terminated	70			Boring Terminated										
REMARKS: * A water stratum was encountered at 12.7'.		MARI	\S·	* A water stratum was encountered at 12.7'.		· .								

	AS HWY. & TRANS. DEPARTMENT		BORING PAGE	3 NC		7 2					
JOB NO.	LS DIVISION - GEOTECHNICAL SEC. 030415 Little River County		DATE:			Marc	h 11	1,20	15		\neg
JOB NO. JOB NAME			TYPE OI	DRI		: Ho	ollov	w Ste	m A	uger	&
102	S.H. 41								d Co	_	
STATION:	319+78		EQUIPM	IENT	:				/ CN		
	8' Left of Center Line of Construction								lamn		
	Y: Tracy Henderson		HAMME	R CC	DRREC	LION F	FACT	OR:		1.23	-
COMPLE	TON DEPTH: 68.7										-
D S Y M B O L FT.		SOIL GROUF	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% S C R	% R Q D
	S SURFACE ELEVATION. 300.6			0			-				
5	Moist, Very Loose to Loose, Brown Silty Sand							2	1 1 -3		
	Wet, Very Loose, Brown Silty Sand * Wet, Medium Dense, Brown Sand with Gravel							0	0 -0**		
	Gravel								13 5-18		
35	Wet, Very Dense, Gray and Brown, Sand			10-	adve	nced	1 6	L by		C MA	aight
REMAR	KS: * A water stratum was encountered at 16.1'. ** Split of hammer.	-spoo	sam	JIEľ	auva	nced	1,0	, uy	oldl	U VVC	, y it

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BOR		o. 13	· 2					
JOB N			030415 Little River County		DATE				ch 1	1, 20	15		\exists
JOB N			Little River Str. & Apprs.				ILLING		ollo	w Ste	m A	uger	&
JODIN	VIAIT?		S.H. 41						Dia	amon	d Co	ring	
STATI	ON:		319+78		EOUI	PMENT	·:	CN	⁄ΙΕ 8	50 w	/ CN	Œ	
			8' Left of Center Line of Construction		Ì			Au	toma	atic F	Iamr	ner	
			racy Henderson		HAM	MER C	ORREC	TION	FAC	TOR:		1.23	
			N DEPTH: 68.7										
	PLE		DEPTH: 08.7			1 5							T
D	S	S			1						Ì		
E P	Υ	A M						H	F	WS	l	%	%
T	М	P	DESCRIPTION OF MATERIAL	SOIL	_			E	CO	2		S	R Q
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ΙΊ	0	Ē			PLASTIC	LIMIT % MOIST.	LIMIT	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.	L	S	SURFACE ELEVATION: 300.8		P.L.	13 %	153	DR	LB				
	1	X	Moist, Hard, Gray, Clay							22	-34		
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L -		-	CLAYSTONE - Greenish Gray, Medium Hard	l									
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<u> </u>			CLAYSTONE - Dark Gray to Gray, Medium Hard										
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<u> </u>	_		Light Brown, Poorly Cemented Siltstone									50	0
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	1		CLAYSTONE - Brown, Medium Hard									1.00	1
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70			Boring Terminated										
70	1405	<u> </u>	* A water stratum was encountered at 16.1'. ** Spl	it-snoo	n sa	mole	adva	nce	d 1.	5' bv	stat	ic we	ight
KE	WAK	N5:	of harmor	ir ahoc	,,, 9 0	ادام			***	J			
			of hammer.					_					

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G NO		2			300		
JOB N			030415 Little River County		DATE:			-	ch 1	6, 20	15		
JOB N			Little River Str. & Apprs.		TYPE O	F DR	ILLING	: H					
			S.H. 41							amor		_	
STAT.	ION:		320+62		EQUIPM	IENT	:			50 v			İ
LOCA			9' Left of Center Line of Construction	į.						atic F			
		_	Stanley Bates		HAMMI	ER CO	ORREC'	TION	FAC	TOR:		1.23	
COM	PLET		N DEPTH: 58.9		_	_				o de se	-		\dashv
D	s	S											
E P	Y	A M						L L	E	WS		%	%
1 7	М	P	DESCRIPTION OF MATERIAL	SOIL		١.		H	CC	TO		S C	R Q
Н	ВО	L		GROUI	1 🖺	IST	le.	WEI	ER	FB	Z	R	D
	Ľ	E			PLASTIC LIMIT	% MOIST.	LIQUID	RY	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.	<u> </u>	S	SURFACE ELEVATION: 300.1		교급	8	133	ā		Ż	<u>F</u>		
5 10		X	Moist, Loose, Brown Sand with some Organic Matter (Grassroots) *							3	2 -3 2 -2		
20		X	Wet, Very Loose, Brown Sand							1	0 1 1-1		
E	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Wet, Very Loose, Gray Silty Sand										
30	0,000 0,0000	8 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wet, Dense, Gray Sand with Gravel					100		11	6 5-18		
35		$\langle \rangle$									7		
RE	MAR	KS:	* A water stratum was encountered at 13.8'.										

ARKANSAS HWY. & TRANS. DEPARTMENT BORING NO. 14													
			DIVISION - GEOTECHNICAL SEC.		AGE	2		2					
JOB NO			030415 Little River County	1	DATE:	<u></u>		Mar	ch 16	5, 20	15	11	
JOB NA	ME:		Little River Str. & Apprs.	1	YPE OF	DRI	LLING	: H					&
			S.H. 41								d Co	_	
STATIC	ON:		320+62	1	EQUIPM	ENT	:		Æ 8				
LOCAT			9' Left of Center Line of Construction						toma				
			tanley Bates	1	IAMME	R CC	RREC	LION	FACT	OR:		1.23	
COMP	LET	1OI	DEPTH: 58.9								т		_
D	s	S	į										
E	Υ	A M						i.	E	ΝS		%	%
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H	В	L	G	GROUP	21.	IST	la.	WEI	ER	FB	Z	R	Ď
	0	Е			PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	ļ	
FT.	_		SURFACE ELEVATION: 300.1		2 3	%	33	A	픠		_		
		X	Moist, Very Hard, Greenish Gray Clay with \Brown Sand							34-	60 ")	-	-
										,-		00	
			CLAYSTONE - Greenish Gray, Medium Hard									92	0
	7												-
40	//												
	//		CLAYSTONE - Dark Gray to Gray, Medium Hard										
			CLATSTONE - Dark Gray to Gray, Medicin Fland									92	0
	77											,	
45			Light Brown, Poorly Cemented Siltstone										
		1	OLANOTONIC Deddieb Brown and Cross									72	0
	//	1	CLAYSTONE - Reddish Brown and Gray, Medium Hard										
	//		Wedium Hard										
50	7												
			CLAYSTONE - Brown and Gray, Medium Hard									100	0
		1											
 55	1	1											
1 30		11											
<u> </u>		11	CLAYSTONE - Brown, Medium Hard									100	0
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60	-		Boring Terminated										
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70			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										1
REN	IAK	\5 :	* A water stratum was encountered at 13.8'.										

O. AME:		030415 Little River County		PAGE	1	U	F 2						
JOB NAME: Little River Str. & Apprs. S.H. 41 STATION: 321+46 LOCATION: 35' Left of Center Line of Construction LOGGED BY: Stanley Bates Diamond Coring EQUIPMENT: CME 850 w/ CME Automatic Hammer HAMMER CORRECTION FACTOR: 1.23 COMPLETION DEPTH: 59.5													
PLET		N DEPTH: 59.5		_		1							
SYMBOL	AMPLE	DESCRIPTION OF MATERIAL SURFACE ELEVATION: 298.3	SOIL GROUF	PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% S C R	% R Q D	
	X	Moist, Very Loose, Brown Sand with some Organic Matter (Grassroots)							2-	-2			
	X	Moist, Very Loose, Brown Sand							1.	-2			
	X	Moist, Very Loose, Brown Silty Sand *							1	-2			
	X	Wet, Very Loose, Brown Silty Sand											
	× 6 5 6	Wet, Very Loose, Brown and Gray Sand with Gravel									4		
\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Wet, Dense, Brown and Gray Sand with Gravel											
	E SYMBOL E SYMBOL	EL SARDING SAR	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S	PLETION DEPTH: 59.5 S Y M M DESCRIPTION OF MATERIAL B C E S SURFACE ELEVATION: 298.3 Moist, Very Loose, Brown Sand with some Organic Matter (Grassroots) Moist, Very Loose, Brown Sand Moist, Very Loose, Brown Silty Sand Wet, Very Loose, Brown Silty Sand Wet, Very Loose, Brown and Gray Sand with Gravel Wet, Very Loose, Brown and Gray Sand with Gravel Wet, Very Loose, Brown and Gray Sand with Gravel Wet, Very Loose, Brown and Gray Sand with Gravel Wet, Very Loose, Brown and Gray Sand with Gravel	PLETION DEPTH: 59.5 S	

49.5'.

			HWY. & TRANS. DEPARTMENT		BORING			2				
			DIVISION - GEOTECHNICAL SEC.		PAGE	2		March	19	2015		
JOB N			030415 Little River County		DATE: TYPE OI	ימת ז						r &
JOB N	AME:		Little River Str. & Apprs. S.H. 41		TIPEOI	· DKI	LLING:	I	Dian	nond	Corin	3
STATI	ON		321+46		EQUIPM	ENT	:			0 w/ (
LOCA			35' Left of Center Line of Construction					Auto	mati	ic Har	nmer	
			Stanley Bates		HAMME	R CC	RRECT	TION FA	ACTO	R:	1.23	
			N DEPTH: 59.5									
D		s										
E	S Y	Α						. !	۽ اب	n	1 %	%
Р	М	М	DESCRIPTION OF MATERIAL	SOIL				HE	J. C	Š Š	S	R
T . H	В	P L		GROU	1 🖺	ST.		VEIC	<u>جا اج</u>	<u> </u>	CR	Q
'	0	Ē	Ĭ.		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	2 "	
FT.	L	S	SURFACE ELEVATION: 298.3		무급	%	EE	DR			2	
		X	Moist, Hard, Gray Clay a trace of Gravel							4 19-40	=	
		H										
			Moist, Gray, Sandy Clay								13	0
			Wiolst, Clay, Carray Clay									
40	Hi	-		1								
L _	1111						1					
L -]		Light Brown, Poorly Cemented Siltstone								66	0
L -			Light Brown, 1 cony come and constant									
45	K	#	CLAYSTONE - Reddish Brown and Gray,						- 1			
	//		\Medium Hard **	-								
	//	$\left\{ \right. \right\}$	CLAYSTONE - Gray, Medium Hard								10	0 0
	\mathcal{N}	1	CLATSTONE - Gray, Medium Haid									
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50	1]								
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-	-/\	11	CLAYSTONE - Brown and Gray, Medium Hard								_	
55	-[/]	1	CLATSTONE - Blown and Gray, Medicin Fland									
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-	1										10	0 0
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70	7											
RF	MAR	KS:	* A water stratum was encountered at 18.0'. ** Par	tial wa	ter loss	wa	s enc	ounte	red	from	44.5	to
[,,			49.5'.								<u>.</u>	

			WY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G NO		2					
JOB N			030415 Little River County		DATE:				ch 1'	7, 20	15		
JOB N			Little River Str. & Apprs.	1	TYPE O	FDR	LLING	Н					&
JOBIN	2 11/113.		S.H. 41						Dia	mor	nd Co	ring	
STATI	ON:		322+30		EQUIPM	IENT	:				v/ CN		
LOCA'			33' Left of Center Line of Construction					Au	toma	itic I	-lamr		
			stanley Bates		HAMMI	R C	DRREC	LION	FAC	ΓOR:		1.23	
			N DEPTH: 68.3										
D.		s										ļ	
E	S	Α							T.	S		%	%
Р	м	М	DESCRIPTION OF MATERIAL	SOIL				Ħ	T.F	.0¥		S	R
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Н	0	L E	i i		ST	% MOIST.	旨旨	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	K	
FT.	L		SURFACE ELEVATION: 292.5		PLASTIC	№	LIQUID	DR	LB	ON.	PE		
	્રુવર												
	d 0.6												
	g ggo :		Moist, Very Loose, Brown Sand with Gravel *								-		
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10			Wet, Very Loose, Brown Silty Sand								0		
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<u> </u> -	-	\triangle		3							1-2		
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<u> </u>			Wet, Very Loose, Gray Sand										
			Wet, very 20000, oray ourid				1						
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		X		_						-	1-6		
	623	1											
-	900	2	Wet, Loose, Gray and Brown Sand with Gravel										
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<u> </u>	_ %	2	Wet, Dense to Medium Dense, Brown and Gray										
L.	αo	o.	Sand with Gravel										
30	: ° c		7	1							13		
	70									1	10-17		
	1			-									
	1/3	Ž.	Met Very Donce Brown and Grov Sandwith										
-		X	Wet, Very Dense, Brown and Gray Sand with										
35	183	1	Clay								50		
		K6.	* A water stratum was encountered at 4.2'.										
KE	IVIAK	NO.	A water stratum was emountered at 4.2.										

JOB N		ILO	DIVISION - GEOTECHNICAL SEC. 030415 Little River County		PAGE			F 2 Marc	-h 1	7 20	015	
JOB N			Little River Str. & Apprs. S.H. 41		DATE: TYPE O	F DR			ollo	w St		
STAT			322+30 33' Left of Center Line of Construction		EQUIPN	MENT	`:		1E 8	350 v	w/ Cl Hami	ME
			Stanley Bates N DEPTH: 68.3	·	HAMM	ER C	ORREC	TION	FAC	TOR:		1.2
D		s	VDELTH, 00.5									
E P T H	SYMBO	AMPLE	DESCRIPTION OF MATERIAL	SOIL GROU	PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER-6-IN.	% S C R
FT.	L .	S	SURFACE ELEVATION: 292.5		FI	%	H	Z Z	EB.			
			Moist, Hard, Brown and Gray Clay with Sand Layers							(4	52 4")	72
40			CLAYSTONE - Reddish Brown and Gray to Brown and Gray, Medium Hard									10
45			CLAYSTONE - Reddish Brown and Gray, Medium Hard					A CANADA AND AND AND AND AND AND AND AND AN				10
50												10
55			CLAYSTONE - Brown and Gray, Medium Hard								۵	10
60			CLAYSTONE - Reddish Brown and Gray, Medium Hard							***************************************		10
65		West Colored	CLAYSTONE WITH SOME SAND AND CEMENTED SAND SEAMS - Brown and Gray, Medium Hard Light Brown, Poorly Cemented Sandstone with Occasional Claystone Layers							Value of the state		9
	-	T	Boring Terminated									Γ

			HWY. & TRANS. DEPARTMENT		BORIN			- 0					
7			DIVISION - GEOTECHNICAL SEC.		PAGE	1		F 3	- 00	21.4	2016		
JOB N			030415 Little River County		DATE:					-31, 2			
JOB N	AME:		Little River Str. & Apprs.		TYPE O	F DR	ILLING	: H		w Ste amor			
000 4 001	(ON):		S.H. 41		në un	4 00 3 400		CA		350 v		-	
STATI			325+90 36' Left of Center Line of Construction		EQUIPM	ILNI	:			atic I			⊣İ
			Stanley Bates		наммі	ep <i>C</i>	ADD DC					1.23	ì
			N DEPTH: 73.4		TIZAVIIVII	SIV CV	JKKEC	HON	PAC	TOK.		1.23	
-		s	V DD1 111. 73.4				1						
D E	S	S A									İ		
E P	Y M	М	DESCRIPTION OF MATERIAL	2011				E	Ē	WS		%	%
Т	B	Р	DEGOTAL HON OF WATERIAL	SOIL GROUI		نے		15I	2	120	ایر	S	R Q
Н	o	L	W.		I E	SIC		WE	PER	OF I	AI-9	R	Ď
FT.	L	S	SURFACE ELEVATION: 303.3		PLASTIC LIMIT	% MOIST	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
			SON ACE ELEVATION. 303.3			0	НН	1	<u> </u>		-	\vdash	
 													
 													
<u> </u>											_		
5		X	Moist, Stiff, Brown and Gray Clay with Sand								5 -9		
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<u> </u>			Moist, Stiff, Brown and Gray Sandy Clay										
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15		\times			İ					1	4 -6		
-	13		<u> </u>							7	70		
<u> </u>			Moist, Loose, brown and Gray Sand with Clay *										
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<u> </u>	4		Wet, Very Loose, Brown Sand										
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35	တ် ဂ	\times	Wet, Medium Dense, Gray to Brown and Gray						<u>.</u>		13		
REN	/AR	S:	* A water stratum was encountered at 18.4'.										

	THE STREET STREET		DODD!	2.210	. 17						
	S HWY. & TRANS. DEPARTMENT S DIVISION - GEOTECHNICAL SEC.	1	BORING PAGE). 17 OI	7 3					ı
JOB NO.	030415 Little River County		DATE:				30-	31, 20	015		一
JOB NAME:	-		TYPE O	F DR						uger	&
JOB IVINIE	S.H. 41						Dia	mon	i Co	ring	
STATION:	325+90		EQUIPM	IENT	:			50 w/			
LOCATION:	36' Left of Center Line of Construction					Aut	oma	tic H			
LOGGED BY:	Stanley Bates		HAMME	R C	DRREC	TION I	FACT	OR:	1	.23	
COMPLETION	ON DEPTH: 73.4									_	_
D s											
						, .	H	S/		%	%
	DESCRIPTION OF MATERIAL	SOIL				展		, N		S	R
	1	GROU	12	ST.		Œ	SR C	F BI	Z	C R	Q
			PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
	SURFACE ELEVATION: 303.3		7.1	%	33	Ä	<u>E</u>				
o.80 A	Sand with Gravel							12-1	13		
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40 00 50						1		10			
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	CLAYSTONE - Dark Gray to Gray, Medium Hard										•
	CLAYSTONE - Dark Gray to Gray, Medium Hard									15	0
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45	CLAYSTONE - Reddish Brown and Gray,									7.	^
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	Medium Hard		Ì							100	U
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	CLAYSTONE - Reddish Brown, Medium Hard									100	0
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65											
LW	CLAYSTONE - Reddish Brown and Gray,									100	0
	Medium Hard										
	+										
70											<u> </u>
REMARKS	S: * A water stratum was encountered at 18.4'.										

MATERIALS DIVISION - GEOTECHNICAL SEC. PAGE 3 OF 3				HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G NO						A 188	
JOB NAME: Little River Str. & Approx. SH. 41 STATION: 325+90 EQUIPMENT: CMB 350 w CME Automatic Hammer Logded by Stanley Bates Logded									-	30-	31. 2	2015		ᅱ
S.H. 41 SIATION: 335-90 Size of Center Line of Construction Size of Center Line of Construction Size of Center Line of Construction Size of Center Line of Construction Size of Center Line							F DRI							. &
Automatic Hammer Automatic Hammer Hammer				• •										
LOGGED BY: Stanley Bates	STATI	ON:				EQUIPM	IENT	:						- 1
COMPLETION DEPTH: 73.4									,					
DESCRIPTION OF MATERIAL SOIL GROUP SAMORE SITE SOIL GROUP SO						HAMMI	ER CC	RREC	TION .	FACT	ror:		1.23	\dashv
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			WY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORING PAGE	3 NC		7 2	09240				
JOB N		-	030415 Little River County		DATE:				1 23-	24, 20	15		
JOB N			Little River Str. & Apprs.	1	TYPE OI	DR	LLING	: Н	ollo	w Ster	n Au	ger &	&
			S.H. 41							mond		_	- 1
STATI	ON:	3	326+80		EQUIPM	ENT	:			50 w/			- 1
LOCA'	TION	: 2	27' Left of Center Line of Construction	1						itic Ha			١
-			tanley Bates		HAMME	R CO	DRREC	TION	FAC	ror:	1.	23	\dashv
COM	PLET		DEPTH: 58.5								Т	Т	\dashv
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	L	E S	OUDEA OF ELEVATION. 200 7		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
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5	11	X	Moist, Stiff, Brown and Gray Clay							6-7			- 1
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RE	MAR	KS:	* A water stratum was encountered at 19.5'.										

			HWY. & TRANS. DEPARTMENT		BORING PAGE	G NO 2		F 2					
JOB N	0.00		DIVISION - GEOTECHNICAL SEC. 030415 Little River County		DATE:	4		Iarch	23-	24. 2	015		
JOB N			Little River Str. & Apprs.		TYPE O	F DR						uger	&
			S.H. 41							ımon			
STATI	ON:		326+80		EQUIPM	IENT	:			50 w			
LOCA'			27' Left of Center Line of Construction					Aut	oma	itic H			
			Stanley Bates		HAMME	ER CO	ORREC'	TION F	ACT	OR:	1	1.23	\dashv
COM	PLET	OI	N DEPTH: 58.5										\dashv
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			Moist, Hard, Brown and Gray Clay							10	, I		
40	//	X	Wolst, Hard, Brown and Gray Clay							22-			
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70	4 A DI	<u></u>	* A water stratum was encountered at 19.5'.			70				_			
KEN	/IAR	15:	A water stratum was encountered at 19.5.										

ARKANSAS HWY. & TRANS. DEPARTMENT		BORING			. 0					
MATERIALS DIVISION - GEOTECHNICAL SEC.			1		2 Marc	h 2/	1 20	15		\dashv
JOB NO. 030415 Little River County JOB NAME: Little River Str. & Apprs.		DATE: TYPE OI	וארוז						uger	&
JOB NAME: Little River Str. & Apprs. S.H. 41		11120	DIC	LLII10		Dia	mon	d Co	ring	
STATION: 327+70		EQUIPM	ENT	:	CM	Œ8	50 w	/ CM	Œ	
LOCATION: 24' Left of Center Line of Construction			-		Aut	oma	itic F	Iamn	ner	
LOGGED BY: Stanley Bates		HAMME	R CC	ORREC	TION	FACT	OR:	!	1.23	_
COMPLETION DEPTH: 60									- 1	_
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		PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
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25 Wet, Loose, Gray Sand							1	3-7		
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Wet, Medium Dense, Brown Sand with Gravel										
								4		
35 [常知] REMARKS: * A water stratum was encountered at 18.1'. ** Spl	lit-snoor	n samr	ler	advai	nced	1.5	bv	stati	C WE	iaht
KEWAKKS: "A water stratum was encountered at 16.1. Spi	iir-ahooi	, Jaiii	,101	~~ Y ELI	, . u		~,		14	

of hammer.

			HWY. & TRANS. DEPARTMENT		BORIN	G NO 2		7 2					
			DIVISION - GEOTECHNICAL SEC. 030415 Little River County		PAGE		-	Mary Control of the Party Cont	ch 2	4, 20	15		\dashv
JOB N			Little River Str. & Apprs.		DATE: TYPE O	י מרו				-		noer	e.
JOB N	AME:		S.H. 41		TIFEO	אם ז	ILLING	. 11		mon			٣
STATI	ON:		327+70		EQUIPM	IENT	:	CN		50 w		_	
LOCA			24' Left of Center Line of Construction							ıtic H			1
l			stanley Bates		HAMMI	R C	ORREC	TION	FAC	ΓOR:	1	1.23	
COM	PLET	OI	DEPTH: 60										
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REN	/AR	(S:	* A water stratum was encountered at 18.1'. ** Spli	t-spoor	samp	ler a	advar	ced	1.5	by s	tatio	: wei	ght
			of hammer.										

			WY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORI		D. 20	F 3					\neg
JOB N		_	030415 Little River County		DATE:			_	ch 2	5, 20	15		\neg
JOB N			Little River Str. & Apprs.		TYPE	OF DR	ILLING	: H	ollo	w St	em A	uger	&
			S.H. 41								nd Co	_	
STATI	ON:		328+60		EQUIF	MENT	:				v/ CN		
LOCA			6' Left of Center Line of Construction	1							Hamr	'	- 1
			tanley Bates		HAMN	MER C	ORREC	TION	FAC	rok:		1.23	-
	PLET		DEPTH: 70.3			Т							\dashv
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			of hammer. + Partial water loss was encountered f	rom 46	0.6° to	05.3	•		-516		_	-	

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORIN PAGE	G No		F 3					
JOB N	O.		030415 Little River County		DATE:			Mar	ch 2	5, 20	15		\neg
JOB N	AME:		Little River Str. & Apprs.		TYPE C	F DR	ILLING	: H					&
			S.H. 41						Dia	amor	ıd Co	ring	- 1
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LOCA	TION	:	6' Left of Center Line of Construction					Au	tom	ațic I	lamn	ner	
LOGG	ED B	Y: S	Stanley Bates		HAMM	ER C	ORREC	TION	FAC	TOR:		1.23	
COM	PLET	(OI	N DEPTH: 70.3										
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March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 25, 2015 March 26, 2015 Marc				HWY. & TRANS. DEPARTMENT		BORING			. 2	33,11				
Ititle River Str. & Apprs. S.H. 41 S24+60 S.H. 41 EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 550 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB 50 w/ CMB EQUIPMENT: CMB 50 w/ CMB 50			_			PAGE DATE:	3	THE RESERVE AND ADDRESS OF		ch 2	5, 20	15		\dashv
STATION: 328+60 LOCATION: 328+60 LOCATION: 5'-Left of Center Line of Construction LOCATION: 5'-Left of Center Line of Construction LOCATION: 5'-Left of Center Line of Construction COMPLETION DEPTH: 70.3 DESCRIPTION OF MATERIAL BY A D DESCRIPTION OF MATERIAL SOIL GROUP S SURFACE ELEVATION: 303.3 Boring Terminated Boring Terminated Boring Terminated Boring Terminated Boring Terminated Boring Terminated Boring Terminated Boring Terminated Boring Terminated				•	1		F DRI						uger	&
Automatic Hammer LOGGED BY: Stanley Bates COMPLETION DEPTH: 70.3 DEC Y A DESCRIPTION OF MATERIAL SOIL GROUP LINE SOUND AND AND AND AND AND AND AND AND AND A	300 112	tiviD.								Dia	mor	d Co	ring	1
LOGGED DY: Stanley Bates COMPLETION DEPTH: 70.3 DESTRIPTION OF MATERIAL THE STANLEY	STATI	ON:				EQUIPM	ENT:							
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75	FT.	L	S	SURFACE ELEVATION: 303.3		7.13	%	35	D.	F	ž	PE		
85 90 91 100 REMARKS: * A water stratum was encountered at 12.1'. ** Split-spoon sampler advanced 1.5' by static weight				Boring Terminated										
85 90 91 100 REMARKS: * A water stratum was encountered at 12.1'. ** Split-spoon sampler advanced 1.5' by static weight														
85 90 91 100 REMARKS: * A water stratum was encountered at 12.1'. ** Split-spoon sampler advanced 1.5' by static weight														
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105 REMARKS: * A water stratum was encountered at 12.1'. ** Split-spoon sampler advanced 1.5' by static weight	95]												
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REMARKS: * A water stratum was encountered at 12.1'. ** Split-spoon sampler advanced 1.5' by static weight	105												L	lade!
	REN	MAR	KS:	* A water stratum was encountered at 12.1'. ** Spl	it-spoo	n samp	oler :	advar	nced	1.5	by by	statio	c we	ignt

ARKANSAS HWY. & TRANS. DEPARTMENT BORING NO. 21													
			DIVISION - GEOTECHNICAL SEC.		PAGE	1		F 2					_
JOB N			030415 Little River County		DATE:					Apr. 1			
JOB N	IAME:		Little River Str. & Apprs.		TYPE C	F DR	ILLING	: H					
I			S.H. 41					-		amoi		_	
STAT			329+51		EQUIPN	MENT	' :			350 w atic I			- 1
LOCA			26' Right of Center Line of Construction		*****	FD 0	2000						
******			Stanley Bates		НАММ	ER C	DRREC	HON	FAC	TOR:		1.23	
	PLE		N DEPTH: 69.1		1		Γ						
D E	S	S A											
P	Υ	<u> </u>	DECODIDETION OF MATERIAL					_	FT.	₹		%	%
T	M B	Р	DESCRIPTION OF MATERIAL	SOIL GROU	a			GH	CL.	2		S C	R Q
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==	L	E			PLASTIC LIMIT	% MOIST	LIQUID	DRY WEIGHT	LBS PER CUFT	NO. OF BLOWS	PER 6-IN.		
FT,		0	SURFACE ELEVATION: 303.4			%		Q	<u> </u>	Z	교	-	_
<u> </u>													
<u> </u>													
L -													
L -			Wet, Soft, Brown Sandy Clay with some Organic								•		
5		X	Matter *								1 -1		
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			Wet, Very Loose, Brown Sand										
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15	13.			1							0		
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20			Clayey Sand								0		
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<u> </u>	8 6	3											
L -	\$0°	6				-							
L -	0. 00	P P	Wet, Dense to Medium Dense, Brown Sand with										
	°9g	_	Gravel								•		
.35	ρ ό 9	\times									8		
REM	//ARK	S:	* A water stratum was encountered at 7.3'. ** Split-	spoon	sample	er ac	dvanc	ed 1	.5' l	by st	atic	weig	ht of

hammer.

			HWY. & TRANS. DEPARTMENT		BORIN			- 0					
			DIVISION - GEOTECHNICAL SEC.		PAGE	2		F 2	1 A	1	201	5	\dashv
JOB N			030415 Little River County		DATE:				1 - A	-			٥.
JOB N	IAME:		Little River Str. & Apprs.		TYPE O	F DR.	ILLING	: 17		mon			۳
			S.H. 41		EQUIPM	ers in		CI	ME 8			_	
STAT			329+51 26' Right of Center Line of Construction		EQUIPM	IENI	:		toma				
LOCA			Stanley Bates		HAMMI	3B C(ORREC					1.23	
			N DEPTH: 69.1		11/1/41/41		Jidaso	11011	11101	010			
	1 1010		VDEI III. 09.1		T		T						
D E	S	S A											
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Н	o	Ŀ			PLASTIC LIMIT	% MOIST.	LIQUID	W	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	R	D
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F1.	ecs :	∑ ∑	SURFACE ELEVATION: 303.4		마리	9/				8-	9		
-	680 6 6 6												
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	80.7								ļ				
	(b)			-						7	,		
40	.66	IX	Gravel with Medium Dense, Brown Sand							8-			
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45		X	CLAYSTONE WITH SAND SEAMS - Brown and								-30		
<u> </u>		ĬΤÌ	Gray, Medium Hard										
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F .	1/] [CLAYSTONE - Reddish Brown and Gray,										
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1 33	1/	11											
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70	-}-	++	Boring Terminated		-	+		+-	*	+-		 	
DE!	MADI	(0.	* A water stratum was encountered at 7.3'. ** Split-	spoon	samnl	er a	dvand	ed '	1.5' h	ov st	atic	weia	ht of
	AI\	₩.	hammer.	3p0011	ibi	J. W			_				