sci	Engineering					IL BORING LO	_		Date	7/13,1	4/200
ROUTE FAP 331	DE	SCR	IPTIOI	<b>V</b> Stru	cture l	Replacement crossing Big Muddy Riv	er Lo	ogg			
						f Murphysboro; SW 1/4, SEC. 3, TWI					
						ME 750 w/HSA HAMMER					
		D	В	U	м			D	В	U	м
STRUCT. NO.         039-0013           Station         340+71.00		E P T		C S	0	Surface Water Elev Stream Bed Elev.	ft	E P T	L O W	C S	0   8
BORING NO.         B-104           Station         343+61	_	н	S	Qu	S T	First Encounter 343.0	ft.▼		S	Qu	T
Offset 14 ft Rt EB Ground Surface Elev. 383.0	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	- ft - ft	(ft)	(/6")	(tsf)	(%)
ASPHALT - 9 inches			-			FILL: Brown, clay					
CRUSHED ROCK FILL: Brown, sandy clay, some	382.3					(A-7)		_	<u></u>		
FILL: Brown, sandy clay, some	_	_	12 9	4.5	7	FILL: Gray, clayey silt	361.5		6	3.0	28
gravel, cinders (A-4)	380.8	_	5	P.5	'	(A-4)		_	9	P P	20
FILL: Brown, sandy clay	_						360.0				
(A-6)						FILL: Gray, silty clay, trace to some sand					
Becomes reddish brown		_	3	2.0	21	(A-7)		_	1	1.4	25
		-5	4	B				-25	-	В	20
	<u>377.5</u>										
FILL: Brown, silty clay, trace to some sand			3						3		
(A-7)		_	3	2.3	21			_	4	2.3	22
Poor recovery			3	Р				_	8	Р	
							355.0				
		_	1			SILTY CLAY: Gray (A-6)		_	1		
		_	2	1.5	24	( ) - /		_	1	0.6	25
		-10	4	Р				-30	3	В	
Temporary benchmark - brass disk at southeast corner of east											
abutment. USGS Topographic			3								
Map - El. 384 Poor recovery		_	4	2.0	22		351.0	_			
1 001 1000V01y		_	5	Р		CLAY: Brown, trace sand					
						(A-7)					
Becomes gray		_	1					_	2		
		_	3	1.7	29	SILTY CLAY: Brown	348.8	_	4	1.2	24
Becomes brown and gray		-15	4	В		(A-7)		-35	4	В	
FILL: Gray, silty clay	<u>367.5</u>	-						_			
(A-6)		_	2					_			
		_	3	1.2	23	L	346.0				
		_	5	В		CLAY: Gray and brown, trace shells		_			
						(A-7)		_			
Becomes brown and gray,		_	2					_	3		
trace to some sand			4	2.8	22				5	3.1	44
	363.0	-20	7	В				▼40	6	S/10	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

( <b>P</b> ) :	linois D f Trans	por	tat	ion		sc	OIL BORING LO	G		Page	<u>2</u>	of
Division of Highways SCI Engineering							JIL BOILING LO		Date	7/13,1	4/2	
ROUTE	2 3 3 1	DE	SCRI	PTIO	<b>V</b> Stru	ıcture	Replacement crossing Big Muddy Ri	ver LC	GGE	ED BY	S	CI
							of Murphysboro; SW 1/4, SEC. 3, TW					
COUNTYJacks	on DRI	LLING	ME	THOD	_	С	ME 750 w/HSA HAMMER	TYPE		Auto	matic	
STRUCT. NO.	039-0013 40+71.00	_	D E	B L	U	M	Surface Water Elev	_ ft	D E	B L	U	N
		-	Р	0	s	- 1	Stream Bed Elev.	_ ft	Р	0	s	1
BORING NO Station1.	B-104	_	T H	W S	Qu	S	Groundwater Elev.:		T H	W S	Qu	1
Offset 1	343+61 4 ft Rt FR	-	"	3	Qu		First Encounter 343. Upon Completion	ont.▼	"		Qu	
Ground Surface Ele	v. 383.0	ft	(ft)	(/6")	(tsf)	(%)	After - Hrs.	- ft	(ft)	(/6")	(tsf)	(%
							CLAY: Gray (A-7) (continued)					
SAND: Greenish gray	, fine to	342.0					( , , , , , , , , , , , , , , , , , , ,		$\dashv$			
medium (A-3)							CANDY OF AV. P	321.0	=			
(,,,,,			_				SANDY CLAY: Brown (A-6)		$\dashv$			
CLAV: Grav		339.0		WH	1.0	65			$\dashv$	3	0.5	2
CLAY: Gray (A-7)			-45	3 5	1.0 B	co	CLAY: Brown	318.5	-65	2	0.5 B	24
Interbedded with of clayey silt	brown,		-40	-	_		(A-7)		-00	-	_	
only of one									$\Box$			
			-						$\dashv$			
									コ			
			_						$\dashv$			
			_	2			1		_	3		
Becomes brown an	Becomes brown and interbedded with brown, silty clay		_	3	0.4	33			$\neg$	3	1.1	29
manaedded with blow	ii, siity olay		-50	3	В		-		-70	3	В	
									4			
			_				SAND: Gray, fine, some clay and	311.0	$\dashv$			
							with clay and sandy clay deposits (A-2)		$\Box$			
Interbedded with of	brown		_	3			(112)		1	5		
clayey silt	DIOWII,		-		1.2	32			$\dashv$	6	-	
			-55	4	В				-75	9		
			-						$\dashv$			
									$\neg$			
							CLAY: Brown	306.0	二			
			_				(A-7)		-			
									$\exists$			
Interbedded with br silt and gray, fine to me	own, clayey edium sand			2	0.6	40		303.8	$\dashv$	13 14	3.8	2!
g. a,, to III			-60	7	0.6 B	40			-80	13	3.0 P	2

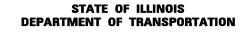
(8)	Illinois I of Trans	Spor		tion		SC	IL BORIN	IG LOG	Page 3
ROUTE									Date 7/13,
ROUTE	FAP 331	DES	SCR	IPTIOI	N Stru	cture I	Replacement crossing	Big Muddy River LOG	GED BY
SECTION	12-2B-2		_ ۱	LOCAT	TION _	East o	f Murphysboro; SW 1/4	4, SEC. 3, TWP. 9S, RN	<b>G</b> . 2W
COUNTY	Jackson DF	RILLING	ME	THOD		C	ME 750 w/HSA	HAMMER TYPE	Automatic
STRUCT. NO Station BORING NO		_	D E P T	B L O W	U C S	M O I S	Surface Water Elev Stream Bed Elev. Groundwater Elev.:	ft	
Station	343+61		Н	s	Qu	Т	First Encounter	343.0 ft ▼	
	14 ft Rt EB e Elev. 383.0	— ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After - Hrs.	ft	
SAND: Bluish gr and gray, fine to weathered shale gravel (A-1) (continued) SAND: Greenish fine to medium, tr (A-3)	fragments and	301.0	_	11					
			-85	17	-				
			_						
Becomes brow	vn	293.8	_	13					
CLAY: Brown, w limestone fragme (A-7)	ith trace nts	293.8	-90	12 12	-	25			
COAL		291.5	_						
			-95	50/1.5  50/1"	<u> </u>	37			
		005	_	50/2" 50/0.5		24			
CLAYEY SHALE	: Grayish brown	285.0	_	50/5"	_	. 13			











SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 039-0075 (E.B.)	331	(12-1)B-1	JACKSON	200	112
31NOCIONE NO. 033-0073 (E.D.)			CONTRACT	NO. 7	8056
SHEET NO. 53 OF 53 SHEETS		ILLINOIS FED. AI	D PROJECT		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)