

FX	н	B	IT	2

					EARIDII Z		
D4 D001/0	USER NAME = lowebj	DESIGNED -	REVISED -		BELL ROAD	F.A. SECTION COL	UNTY TOTAL SHEET
P AR S ON S		DRAWN -	REVISED -	STATE OF ILLINOIS			4 2
BRINCKERHOFF	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GEOTECHNICAL BORING LOCATION PLAN	CON	ITRACT NO.
	PLOT DATE = 4/16/2014	DATE -	REVISED -		SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJ	

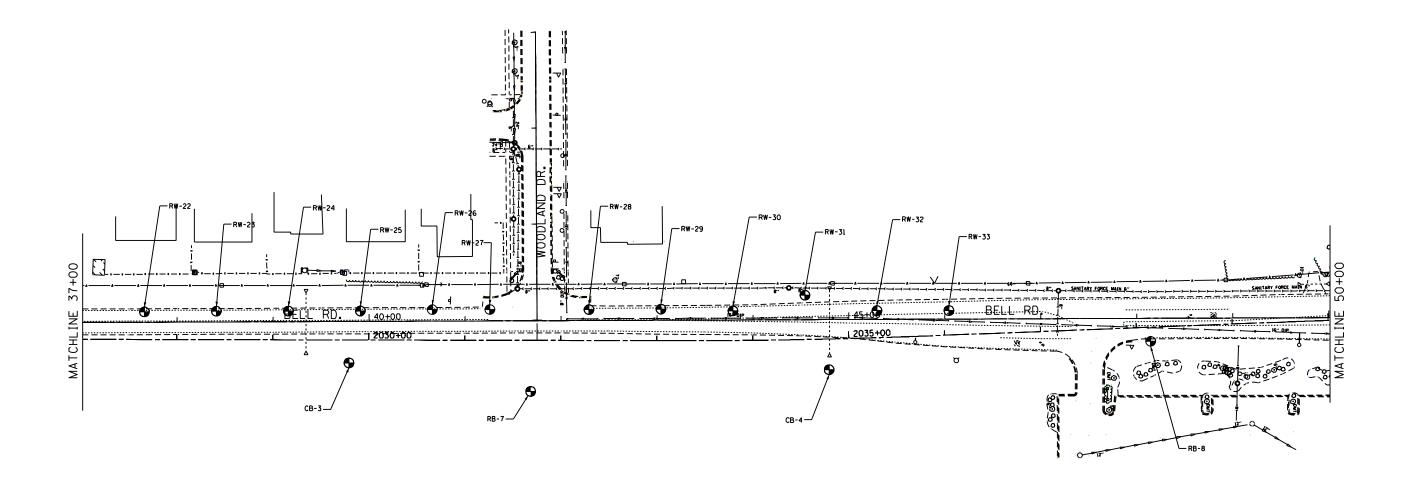


EXHIBIT 2

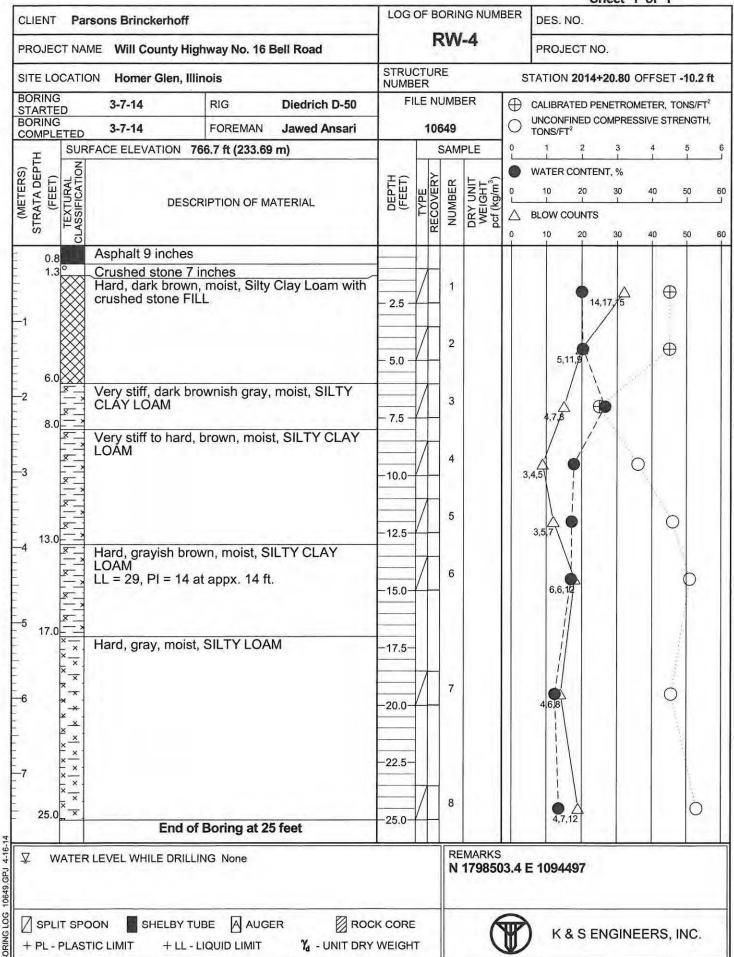
					ΕΛΠΙΒΙΙ Ζ		
D4 D001/0	USER NAME = lowebj	DESIGNED -	REVISED -		BELL ROAD	F.A. SECTION	COUNTY TOTAL SHEET
P AR S ON S		DRAWN -	REVISED -	STATE OF ILLINOIS			4 3
BRINCKERHOFF	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GEOTECHNICAL BORING LOCATION PLAN	•	CONTRACT NO.
	PLOT DATE = 4/16/2014	DATE -	REVISED -		SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. A	

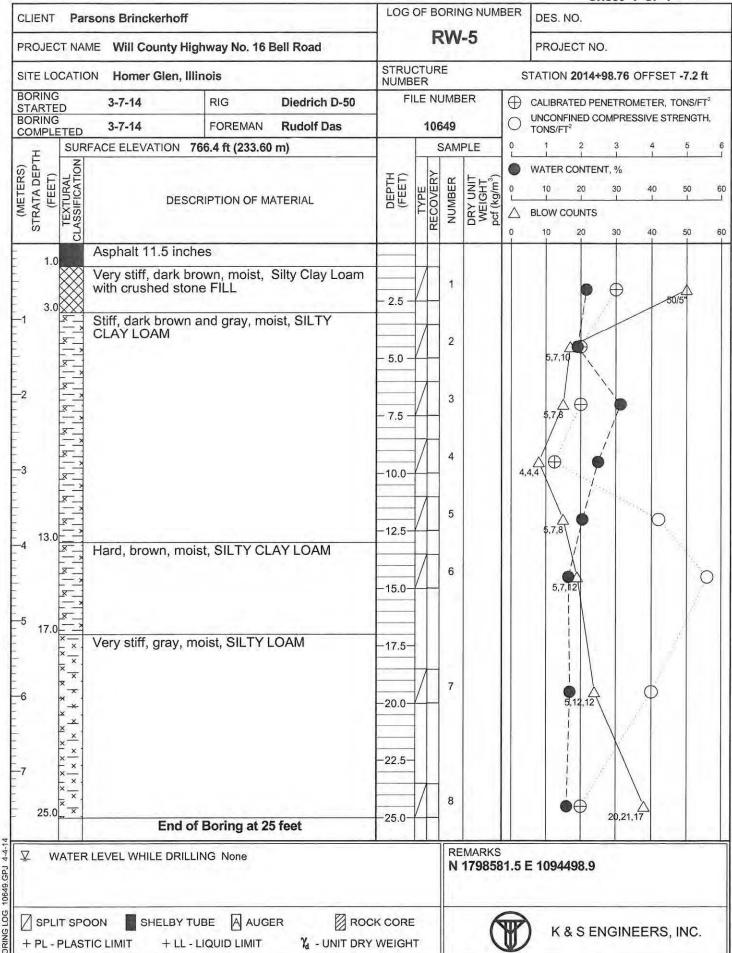
CLIE	ROJECT NAME Will County Highway No. 16 Bell Road					LOG			NG NUMI	BER	DES	. NO.				
PRO	JEC	T NA	ME Will County Hi	ghway No. 1	6 Bell Road		F	SM.	-1		PRO	JECT N	10.			
SITE	LO	CATI	ON Homer Glen, II	linois		STRU		RE		5	STATIC	N 201 1	+34.13	OFFSI	ET -16.	7 ft
BOR			3-7-14	RIG	Diedrich D-50	THE REAL PROPERTY.	LE N	UMB	ER	\oplus	CALIB	RATED F	PENETRO	METER	, TONS/F	-T ²
BOR	ING		3-7-14	FOREMAN	Jawed Ansari		10	649		0	UNCO		COMPRE	SSIVE S	TRENG	ΓH,
		SUF	RFACE ELEVATION	769.2 ft (234.	45 m)			SAM	PLE	0	1	2	3	4	5	
(METERS) STRATA DEPTH		REXTURAL SSIFICATION]	>		_	•	WATE	R CONTI	ENT, %			
(METERS) RATA DEP	(FEET)	URA	DESC	CRIPTION OF	MATERIAL	DEPTH (FEET)	RECOVERY	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	0	10	20	30	40 J	50	
TR (R	۳	SSIF	DES	SIGN TION OF	MATERIAL	0=	ECC	NON	WEI Ocf (k	Δ	BLOW	COUNT	S			
S		CLA					8		F- 1	0	10	20	30	40	50	
	1.0	0	Gravel													
			Hard, dark brow crushed stone F LL = 47, PI = 27	n, moist, Sil ⁱ ILL	ty Clay Loam with	- 2.5 -	1	1				9,11,107		(⊕	
-1	3.0		Hard, brown to b	rownish gra	ay, moist, SILTY							1			A	
	178	× .	CLAÝ LOAM					2								
						- 5.0 -	+				6	,9,10				
-2		x d					1					/				
-		×				- 7.5 -	/	3			3,6	A P			0	
	8.0	× i	Very stiff to hard	, brownish o	gray to grayish							11		š		
	9	×	brown, moist, SI	LTY CLAY Ì	LOAM			4								
-3		× j				-10.0-					3,6,	3/		3		
		× j					1					1		7		
		× j				-12.5-	/_	5			3,6,	10\		C)	
-4	13.0	x j	Very stiff, gray, r	noist, SILTY	CLAY LOAM									27		
		× ·						6					0			
		x j				-15.0-					1	9,11,9				
-5		× j											200			
		×				-17.5-						y	*			
		x - x									/	Ţ				
-6		x .						7			\bigvee	•				
Ü		× _ ×				-20.0-					5,4,6	1				
	22.0	× ×											2			
	-2.0		Stiff, gray, moist	, SANDY LC	DAM	-22.5-						1				
-7							-									
5	25.0						/	8			(1			
	_5.0		End o	of Boring at	25 feet	25.0-						13	,16,15			
Ā	W	ATER	R LEVEL WHILE DRIL	LING None					MARKS 179821		E 109	4498.3				
_		T SPO		UBE AU		K CORE			() k	(& S E	ENGIN	EERS	s, INC	0.

EXHIBIT Sheet 1 of

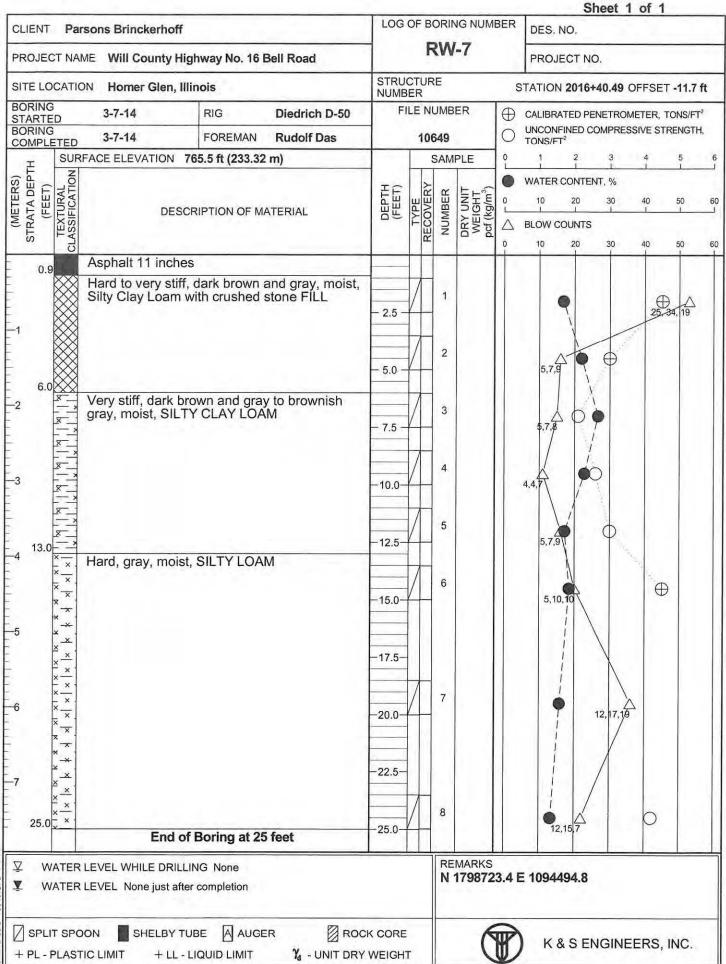
LIENT Parsons Brinckerhoff	LOG OF BORING NUMBER DES. NO.
ROJECT NAME Will County Highway No. 16 Bell Roa	RW-2 PROJECT NO.
TE LOCATION Homer Glen, Illinois	STRUCTURE STATION 2012+02.13 OFFSET -14.7 ft
ORING 7-7-14 RIG Diedr	
ORING OMPLETED 3-7-14 FOREMAN Rudo	UNCONFINED COMPRESSIVE STRENGTH, TONS/FT ²
_ SURFACE ELEVATION 768.7 ft (234.30 m)	SAMPLE 0 1 2 3 4 5
CLASSIFICATION LOS LICATION LOS	CEPTH CONTENT, % CONTENT
Hard, dark brown and gray, moist, Si Loam with crushed stone FILL	
2.0 Hard, brown, moist, SILTY CLAY LO	20,22,17
x	2 6,9,13
	7,12,19
X	4
	5
Very stiff to hard, gray, moist, SILTY	Y 6
x	5,7,8
Z	7
22.0	5,7/10
Very stiff, gray, moist, SILTY LOAM	-22.5-
25.0 × The state of End of Boring at 25 feet	25.0 8 6,7,12
WATER LEVEL WHILE DRILLING None	REMARKS N 1798284.6 E 1094498.4

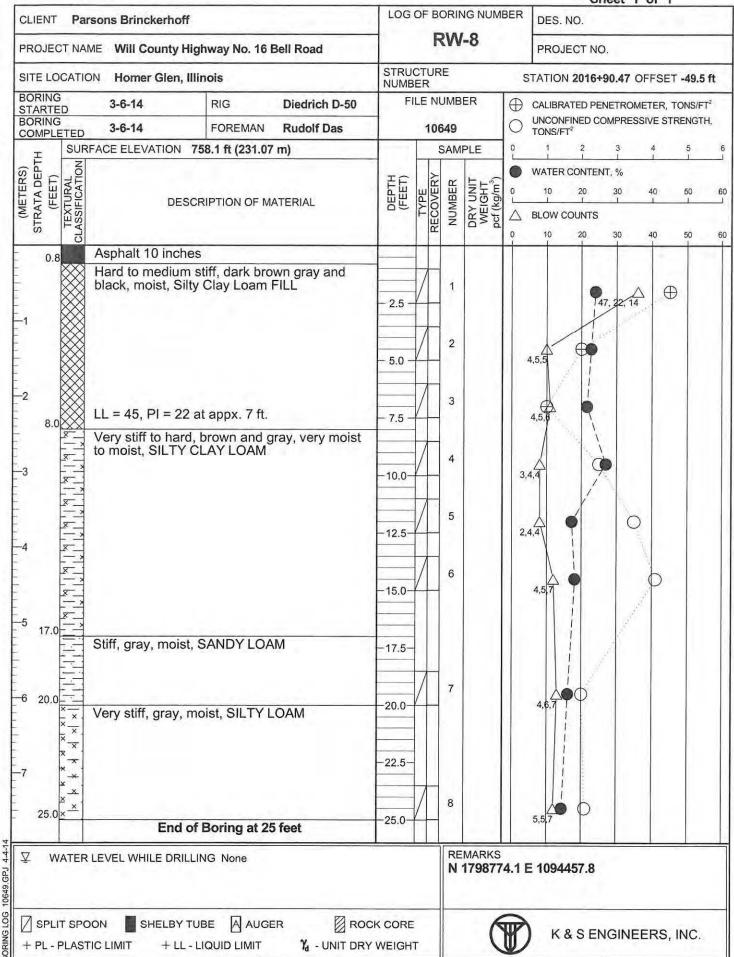
CLIENT	Pa	rsons Brinckerhoff			LOG	OF	во	RIN	IG NUM	BER	DE	S. NO					
PROJEC	CT NA	ME Will County Hi	ghway No.	16 Bell Road			R	W	-3		PR	OJEC	T NC).			
SITE LC	CATIO	ON Homer Glen, I II	linois		STRU					5	TAT	ION 20	13+	85.90	OFFS	ET -1	0.9 ft
BORING		3-7-14	RIG	Diedrich D-50	F	LE	NUI	MBI	ER	\oplus	CAL	BRATE	D PE	NETRO	METER	R, TON	S/FT ²
BORING	}	3-7-14	FOREMA	N Jawed Ansari		1	064	49		0	UNC	ONFINE	D CC	OMPRE:	SSIVE	STREN	IGTH,
		RFACE ELEVATION	766.8 ft (233	3.72 m)			S	AMF	PLE	0	1		2	3	4	5	6
S)	NO.						_			•	WAT	ER COI	NTEN	П, %			
(METERS) RATA DEP (FEET)	CAT	122			DEPTH (FEET)	J.	VER	BER	E TE	0	10) 2	0	30	40	50	60
(METERS) STRATA DEPTH (FEET)	TEXTURAL CLASSIFICATION	DESC	CRIPTION OF	F MATERIAL	9.6	TYPE	00	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	Δ	BLO	w cou	NTS				
ST	CLAS						8	_	0-0	0	10) 2	0	30	40	50	60
0.8		Asphalt 10 inche															
1.3		Crushed stone 5 Hard, dark brown	inches	iet to moiet Silty	_	1	ī	1								-	
	\bowtie	Clay Loam with	crushed st	one FILL	- 2.5 -	1						8,10,10	4			Φ	
_ 1	\bowtie												1				
	\bowtie							2				L				\oplus	
- - 5.6	\otimes		-		- 5.0 -	f	-					4,8,8			100		
	×	Very stiff, brown SILTY CLAY LO	to brownis	sh gray, moist,		H						/ 1					
-2	× ×	SILTI CLATEO	CIVI			$ \cdot $		3			4)	0		1	
	× - ×				- 7.5 -						3,4,6	1		i i			
	×					1		4			- 1	1		1			
- 3	× ,				-10.0-	V		4			4	,7,8					
11.0	×-											1			1	4	
	<u>×</u>	Hard, brownish g	gray to gray	yish brown, moist,				5				7				4	
	<u></u>	0.2, , 92, 1, 20,			-12.5-	H	\exists				4	1,7,10				1	
<u></u> 4	X					1	-					/\					
-	x				45.0	1		6				4,9,17	7				0
	× ×				-15.0-							1,9,1				-	/
5 5 17.0	× - ×					11						1/				7	
	×	Very stiff, gray, n	noist, SILT	YLOAM	-17.5-	11						1/				3	
	×										- 4	1/					
	××							7				1/			6		
6 -	*-*				-20.0-						3	8,6					
	× ×											1					
	×				20.5							İ	/				
7	× - ×				-22.5-	-							1				
	$\left[\frac{\times}{\times}\right]$					1		8									
25.0	×.	F. J.	(Dadas -	4 OF 64	-25.0-	1		٠					7,13	5,17	9		4.11
		Ena c	of Boring a	t 25 feet													
ΣV	VATER	R LEVEL WHILE DRILI	LING None						MARKS 179846		E 10	94497	7				
SPL			UBE A A		CK COR				6	W)	K & S	S EN	NGIN	EER	S, IN	C.

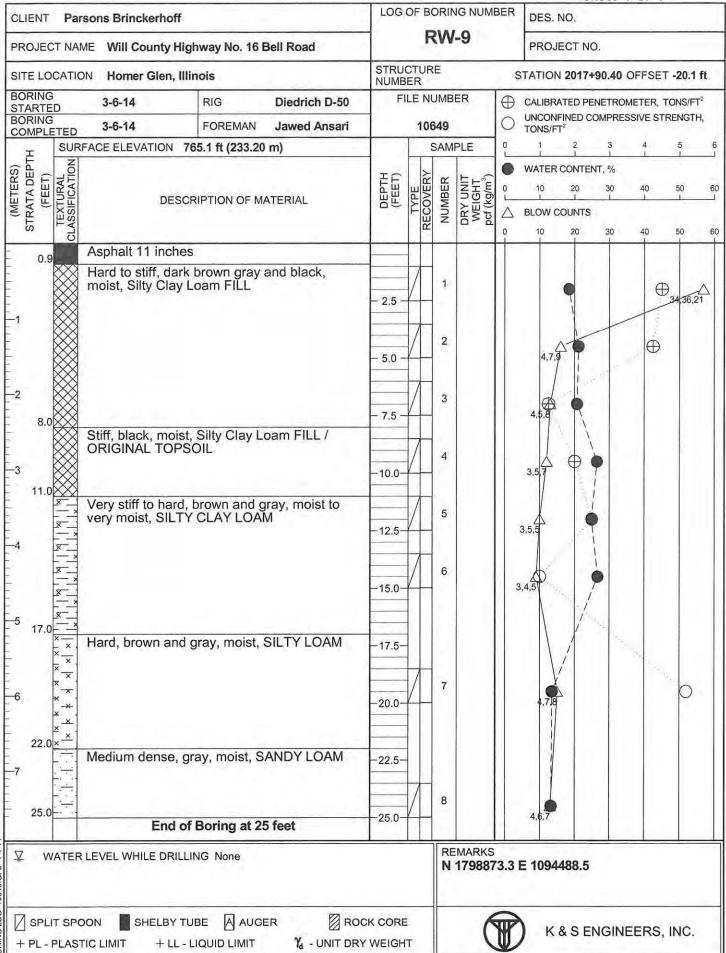




CLIENT F	Parsons Brinckerhoff		LOG			IG NUM	BER	DES. NO.				
PROJECT N	NAME Will County H	ighway No. 16	Bell Road		r	SW	-0		PROJEC	T NO.		
SITE LOCA	TION Homer Glen, I	llinois		STRUG		E		5	STATION 2	015+75.64	OFFSE	T -9.2 f
BORING STARTED	3-7-14	RIG	Diedrich D-50		LE N	JMB	ER	\oplus	CALIBRATI	ED PENETRO	OMETER,	TONS/FT
BORING COMPLETE	3-7-14	FOREMAN	Rudolf Das		106	649		0	UNCONFIN TONS/FT ²	ED COMPRI	ESSIVE ST	RENGTH
SI	URFACE ELEVATION	765.9 ft (233.4	5 m)		,	SAMI	PLE	0	1	2 3	4	5
(METERS) STRATA DEPTH (FEET)	LASSIFICATION DES	CRIPTION OF M	MATERIAL	DEPTH (FEET)	TYPE RECOVERY	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• • • •	BLOW COL	20 30	40	50 1
	Asphalt 12 inche	es						+			Ť	Ť
3.0	Hard, dark brow Loam FILL	n and black,	moist, Silty Clay	- 2.5 -		1.				•	20,21,2	<u>A</u>
-1	Stiff, dark brown	and gray, m	oist, SILTY							1		
<u>x</u>	CLAY LOAM LL = 41, PI = 22	at appx. 4 ft.		- 5.0 -		2			5,7,9			
-2	<u> </u>			7.5		3			5 7 10			
8.0	Stiff, brownish g	ray, moist, Sl	ILTY CLAY	- 7.5 - -10.0-		4			3,5,5			
11.0	Hard to very stif	f, brown, moi	st, SILTY CLAY	-12.5-		5			4,7,8			0
x x	*			-15.0-		6			5,7,10			
-5 17.0 × - × - × - × - × - × - × - ×	Hard to very stif	f, gray, moist	, SILTY LOAM	-17.5-								
-6 × × × × × × × × × × × × × × × × × × ×	₹			-20.0-	1	7			4,8,11			
7 × × × × × × × × × × × × × × × × × × ×	.			-22.5-		8		k	• 5,7,			
	End o	of Boring at 2	25 feet	25.0-					5,7,			
∑ WATE	ER LEVEL WHILE DRIL	LING None					MARKS 179865	8.4	E 109449	6.7		
SPLIT S		TUBE AUG		CK CORE			(T) к&	S ENGIN	IEERS,	INC.







CLIENT	Pa	rsons Brinckerhof	f	LOG OF			BER	DES.	NO.				
PROJEC	CT NA	ME Will County H	lighway No. 16 Bell Road		RW-	10		PROJ	ECT NO).			
SITE LO	CATIO	ON Homer Glen,	Illinois	STRUCTU			5	TATION	2018+	65.62	OFFSE	T -22.4	ft
BORING		3-6-14	RIG Diedrich D-50		NUMB	ER	\oplus	CALIBRA	ATED PE	NETRO	METER,	TONS/F	T ²
STARTE	3	3-6-14	FOREMAN Rudolf Das	1	0649		0	UNCON TONS/F	FINED CO	OMPRE	SSIVE ST	FRENGT	H,
COMPLE	_	FACE ELEVATION	765.1 ft (233.20 m)		SAM	PLE	0	1	2	3	4	5	6
(METERS) STRATA DEPTH (FEET)	NO.			1	>		•	WATER	CONTEN	NT. %			
(METERS) RATA DEP (FEET)	CAT			DEPTH (FEET)	VER	THE THE	0	10	20	30	40	50	6
RAT (A)	TEXTURAL SSIFICATION	DES	SCRIPTION OF MATERIAL	DEPT (FEE TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	Δ	BLOW (COUNTS				
S	CLAS				2	בים	0	10	20	30	40	50	6
0.9		Asphalt 10.5 in	ches										
	\boxtimes	Hard, dark brow crushed stone I	vn, moist, Silty Clay Loam with		1								
3.0	\otimes	crusiled storie	FILL	- 2.5	4				9		43,25,20		
-1 -1			brown, moist, Silty Clay Loam						\				
	\bigotimes	FILĹ			2			1	6	0			
	\bowtie			- 5.0				3,5,6	7	T			
6.0		Verv stiff, dark	grav black, very moist, Silty		+				1	î			
-2	\bowtie	Clay Loam FILI	gray black, very moist, Silty L / ORIGINAL TOPSOIL	7.5	3			5,6,7	9				
8.0		Very stiff to har	d, brown and gray, moist,	7.5					/	1			
	x	SILTY CLAY LO	OAM	-1/1	4				4	57			
-3	×			-10.0	_			5 6,8			9		
	x								X			A	
	<u> </u>				5							0	
-4	— x			-12.5				6,8	Off,e	1		1	
	x				6				1		1		
				-15.0					9			50/5	
	- X								1				
⁻⁵ 17.0									1				
	×	Very stiff, gray,	moist, SILTY LOAM	-17.5-					i i		1		
	× ×									1		- 10	
-6	× ×			/	7			9	15.	15, 7	Φ		
	×-*			20.0				1			1		
	×_×			4							T I		
7	××			-22.5-					/		1		
-1	×								1		É		
25.0					8					C			
20.0		End	of Boring at 25 feet	25.0				5,7,	10				
Δ M	VATER	R LEVEL WHILE DRI	ILLING None			MARKS 17989		E 1094	486.4				
SPL	IT SP	OON SHELBY	TUBE AUGER ROO	CK CORE		6	W) к	&SE	NGIN	EERS	. INC	

CLIENT F	Parsons Brinckerhoff		LOG			IG NUM	BER	DES. N	٥.			
PROJECT N	NAME Will County H	ighway No. 16 Bell Road		R	W-	11		PROJE	CT NO.			
SITE LOCA	TION Homer Glen,	Ilinois	STRU- NUMB		E		5	STATION :	2019+40.87	OFFSE	T -23	.8 ft
BORING STARTED	3-6-14	RIG Diedrich D-50	_	LE N	JMB	ER	\oplus	CALIBRAT	ED PENETRO	METER,	TONS	FT ²
BORING COMPLETE	3-6-14	FOREMAN Rudolf Das		106	649		0	UNCONFII TONS/FT ²	NED COMPRE	SSIVE S	TRENG	TH,
SI	URFACE ELEVATION	765.2 ft (233.23 m)			SAMI	PLE	0	1	2 3	4	5	
STRATA DEPTH (FEET)	ASSIFICATION	CRIPTION OF MATERIAL	DEPTH (FEET)	TYPE RECOVERY	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• • •	MATER C	ONTENT, % 20 30 1 1 UNTS	40	50 1	0
	ਰ Asphalt 11.5 ind	ches					0	10	20 30	40	50	E
3.0		n, moist, Silty Clay Loam with	- 2.5 -		1			•		37,20,	27	
1 8	Very stiff, brown moist, SILTY CI	and gray, very moist to LAY LOAM	- 5.0 -		2			5,7				
2 8.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATE OF THE OLD AND COMM	- 7.5 -		3			3,5,11	•			
3	Hard, brown, m	dard, brown, moist, SILTY CLAY LOAM						611	0 13	(₽.	i.
4 8			-12.5-		5			5,	10,14			6.2
5 17.0			-15.0-	/ _	6			6,1	0.13			
×-> ×-> ×-> ×-> ×->	₹.	st, SILTY LOAM	-17.5- -20.0-		7			5,7,8		Į.C		
22.0	Stiff, gray, mois	t, SANDY LOAM	-22.5-									
25.0		of Boring at 25 feet	25.0-	Щ	8			5 7,7				
	End	or borning at 20 feet										
∑ WAT	ER LEVEL WHILE DRIL	LING None				MARKS 179902	3.2	E 10944	34.2			
SPLIT S		TUBE AUGER RO	CK CORE			(T) к&	S ENGIN	EERS	, INC	y Au

CLIENT	CLIENT Parsons Brinckerhoff PROJECT NAME Will County Highway No. 16 Bell Road							IG NUM	DES. NO.					
PROJEC	CT NAI	ME Will County I	lighway No. 1	6 Bell Road		R	W-	12		PROJE	CT NO.			
SITE LO	CATIC	N Homer Glen,	Illinois		STRU		RE		S	TATION	2020+16.0	7 OFFS	ET -24.	3 ft
BORING		3-7-14	RIG	Diedrich D-50		LE N	UMB	ER	\oplus	CALIBRA	TED PENET	ROMETE	R, TONS/I	FT ²
BORING	3	3-7-14	FOREMAI	V Jawed Ansari		100	649		0	UNCONFI	NED COMPI	RESSIVE	STRENG	TH,
		FACE ELEVATION	765.2 ft (233.	.23 m)			SAM	PLE	o o	1	2 3	4	5	
(METERS) STRATA DEPTH (FEET)	TEXTURAL	DE:	SCRIPTION OF	MATERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)		MATER C	20 30 DUNTS	1 40 1	50	3
0.8	1	Asphalt 9 inche	es			6								
1.2		Crushed stone Hard to very sti Clay Loam FIL	iff, dark brow	n, moist, Silty	- 2.5 -		1				18,18,18	Δ	0	
4.5		Stiff, brownish LOAM	gray, moist, :	SILTY CLAY	- 5.0 -		2			3,6,10)		
⁻² 7.0	X X X X X X X X X X	Soft, brownish LOAM	gray, moist,	SILTY CLAY	- 7.5 -	1	3		2,3,)			
-3 10.0	X	LL = 32, PI = 1			10.0-		4				, ,			
13.0	X X	Very stiff, brow LOAM	nish gray, m	oist, SILTY CLAY	-12.5-		5			3,5,7		0		
-4	X X X X X X X X X X	Very stiff to har LOAM	d, gray, mois	st, SILTY CLAY	-15.0-		6			3,5,8				
5	* X X X X X X X X X				-17.5-		7							
22.0	X	Hard grov mo	iet SIITVI	ΣΔΜ	-20.0-	-				3,5,8				
7 25.0	× × × × × × × × × × × × × × × × × × ×	Hard, gray, mo	ist, SILTY LC	JAIVI	-22.5-		8			4,6,9		700	0	
		End	of Boring at	25 feet	25.0-					7,0,5				
		LEVEL WHILE DR			•			17990		E 10944	82.1		,	

CLIENT	Pa	rsons Brinckerhoff		LOG			IG NUM	BER	DES.		1000			
PROJEC	CT NA	ME Will County Hig	hway No. 16 Bell Road	1	R	W-	13		PROJ	ECT NO	Ö.			
SITE LO	CATI	ON Homer Glen, Illi	inois	STRU		E		Ş	TATION	2020+	91.07	OFFSI	ET -2	4.6 ft
BORING		3-6-14	RIG Diedrich D-50		ILE N	JMB	ER	\oplus	CALIBRA	ATED PE	NETRO	METER	TON	S/FT ²
BORING	}	3-6-14	FOREMAN Jawed Ansari		100	349		0	UNCONF	FINED C	OMPRE	SSIVE S	TREN	GTH,
COMPLE		RFACE ELEVATION 7				SAM	PLE	0	1	2	3	4	5	6
(METERS) STRATA DEPTH (FEET)	NO			1	>			•	WATER	CONTEN	NT, %			
(METERS) RATA DEP (FEET)	TEXTURAL	DECO	DIDTION OF MATERIAL	DEPTH (FEET)	TYPE RECOVER'	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	0	10	20	30	40	50	60
P. P	EXT	DESC	RIPTION OF MATERIAL	26	FCO	NOM	WE! X	Δ	BLOW C	OUNTS				
ς,	CLA				8			0	10	20	30	40	50	60
0.8	3	Asphalt 10 inches												
1.3	XX	Crushed stone 5 Hard to very stiff,	dark brown and black, very		1	1						3	\oplus	
	\bowtie	moist, Silty Clay L	_oam FILL	- 2.5 -	+				10,10	0,10			<i>D</i>	
-1	\bigotimes				+					/		£		
	\bowtie			5.0	$ \cdot $	2			5,5,8			\oplus		
	\bowtie			- 5.0 -					5,5,6	j	100			
-2	\bowtie				1	3			1	T.	200			
	\bowtie			- 7.5 -	1				2,4,6	(4)	,			
9.0	\bowtie				1					1			1	
		Hard to very stiff,	brown and gray, moist,			4								
- 3	× ×	SILTY CLAY LOA	AM	-10.0-	+				3,7,6	1	12	=1 _K -		
	× J				1	-				()		**** / / X i	194	
	×			-12.5-	1	5			4,6,10	70				0
-4	× j				1									
	× _					6								6.1
	×			-15.0-	+				5,	3,12				Y
5	× j								11.3	!/				
	<u>x</u>			-17.5-						7		1	7	
	x			17.5								7		
	x				1	7								
-6	x -			-20.0-	1				3,5,6					
	x													
22.0	×=	Very stiff gray m	noist, SILTY LOAM	00.5										
-7	× <u>*</u>	very still, gray, ill	oist, oiet i eo Aw	-22.5-										
	××				1	8								
25.0	× ~ .	End of	f Boring at 25 feet	25.0	1	Ų	1		3,5,6		0			
						ll pr		<u> </u>						
Δ W	VATE	R LEVEL WHILE DRILL	ING None				179917		E 1094	480				
SPL	IT SP	OON SHELBY TU	UBE A AUGER ROO	CK CORE	1		6	TIP	\ _{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\}	0 O E	NOIN	EED'	N 181	0
			LIQUID LIMIT Ya - UNIT DRY				(K	& S E	NGIN	EEKS	o, IN	U.

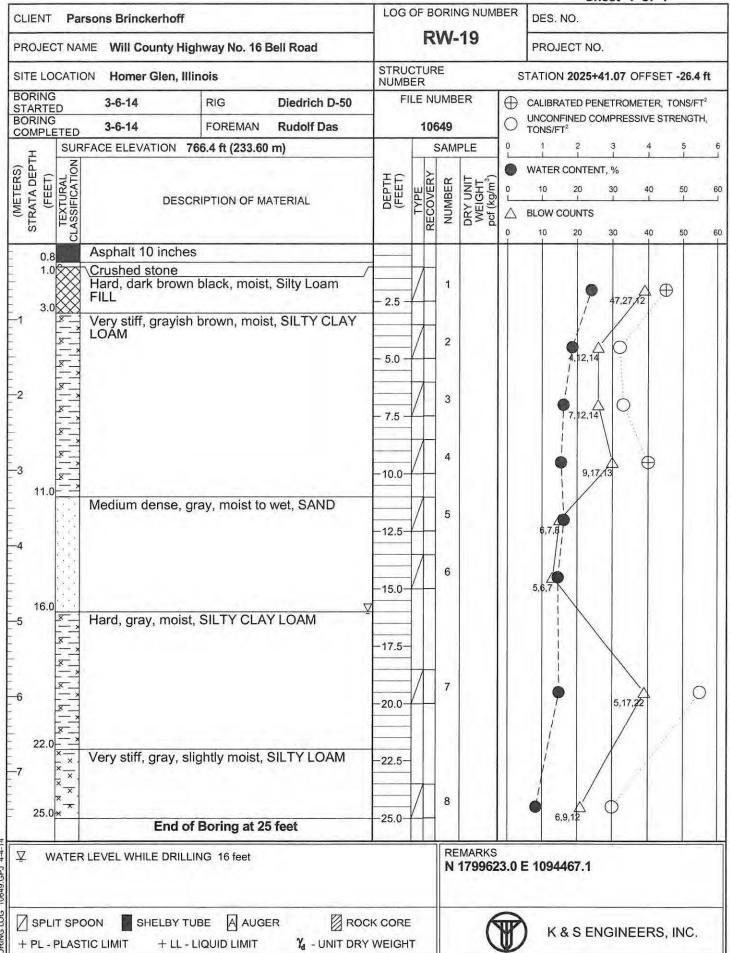
CLIENT Pa	rsons Brinckerho	ff		LOG			NG NUM	BER	DES.	NO.				
PROJECT NA	ME Will County	Highway No.	16 Bell Road		R	W.	-14		PROJ	ECT NO	D.			
SITE LOCATI	ON Homer Glen	, Illinois		STRU		RE		s	TATIO	N 2021+	66.07	OFFSE	T -24.9	ft
BORING STARTED	3-6-14	RIG	Diedrich D-50	F	LE N	UME	BER	\oplus	CALIBR	ATED PE	NETROI	METER,	TONS/F	T ²
BORING COMPLETED	3-6-14	FOREMA	N Rudolf Das		10	649		0	UNCON TONS/F	FINED C	OMPRES	SSIVE S	FRENGT	H,
SHE	RFACE ELEVATION	765.5 ft (233	.32 m)			SAM	IPLE	0	1	2	3	4	5	6
(METERS) STRATA DEPTH (FEET) TEXTURAL ASSIFICATION				DEPTH (FEET)	E YERY	ER	INIT HT /m³)	0	WATER	CONTEN	NT, % 30	40	50	6
STRAT, (FE TEXTU	DE	SCRIPTION OF	MATERIAL	HE.	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)		BLOW (COUNTS 20	30	40	50	6
	Asphalt 11.5 ir	nches										1		
1.0	Stiff, dark brov	vn and black	, moist, Silty Loam			1								
_1 🐰				- 2.5 -									50/4"	
				- 5.0 -	1	2			4,6,1					
6.0	Stiff, black, ve ORIGINAL TO	ry moist, Silty PSOIL	/ Loam FILL /	- 7.5 -	1	3			4,6,8	Ð	•			
8.5	Stiff, brown, m LL = 44, PI = 2	oist, SILTY 0	CLAY LOAM	-10.0-	1	4		3,	4,4) \$	/			
11.0 ×	Stiff, brown, m	oist, SILT		-12.5-		5				Ð. •				
13.0 ×	Very stiff, gray LOAM	ish brown, m	oist, SILTY CLAY	-15.0-	1	6				5,9,12	0			
17.0	Hard, gray, mo	oist, SILTY C	LAY LOAM	-17.5- -20.0-	1	7			5,5	910			0	
22.0 × × × × × × × × × × × × × × × × × × ×	Very stiff, gray	, moist, SILT	YLOAM	-22.5-		8						Contraction of the Contraction o		
25.0×	End	d of Boring a	t 25 feet	25.0-	/				6,7,	10				
☑ WATE	 R LEVEL WHILE DF						EMARKS 179924		E 1094	1477.8				
SPLIT SP	E a sea of the sea of the sea of	Y TUBE A A		CK CORI			(T) к	&SE	NGIN	EERS	, INC	

CLIENT	Pa	rsons Brinckerhoff		LOG			NG NUM	DES. NO.
PROJEC	T NA	ME Will County Hig	hway No. 16 Bell Road		F	\$VV-	-15	PROJECT NO.
SITE LO	CATIO	ON Homer Glen, Illi	nois	STRU		RE		STATION 2022+41.08 OFFSET -23.2
BORING STARTE		3-6-14	RIG Diedrich D-50	F	ILE N	IUME	ER	CALIBRATED PENETROMETER, TONS/F
BORING COMPLE		3-6-14	FOREMAN Jawed Ansari	7 1 7	10	649		UNCONFINED COMPRESSIVE STRENGT TONS/FT ²
		RFACE ELEVATION 70	65.7 ft (233.39 m)			SAM	PLE	0 1 2 3 4 5
(METERS) STRATA DEPTH (FEET)	NOL] = 0	>			WATER CONTENT, %
(METERS) RATA DEP (FEET)	URA FICA	DESC	RIPTION OF MATERIAL	DEPTH (FEET)	PE	1BEF	GHT G/m/g/	0 10 20 30 40 50
AA E	TEXTURAL CLASSIFICATION	5200	THOU OF WATERWIE		TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	△ BLOW COUNTS
S	20				٥			0 10 20 30 40 50
0.8 1.3	0	Asphalt 10 inches Crushed stone 5 i						
1.3	\boxtimes	Hard, dark brown	and black, moist, Silty			1		
		Loam FILL		- 2.5 -				/ 16,15/14
-1	\bowtie			2	1			
	\bowtie			- 5.0 -	1	2		2,5,8
6.0	\boxtimes			0.0				
-2	\bowtie	Stiff, black, very n ORIGINAL TOPS	noist, Silty Loam FILL /		1	3		
	\bowtie	OTTION VIE TOTO	OIL.	- 7.5 -	1		1 1	2,4,5
9.0	\bowtie				+		112 pcf	
-3	× ×	Very stiff to hard, CLAY LOAM	brown and gray, SILTY	40.0	/	4	112 pcf (1800 kg/m³)	2,3,4
	X	CLAT LOAM		-10.0-				2,3,4
	× ×				1	5		
	××			-12.5-	1	-		3,5,9
-4	×				1			
	×			7272		6		
	<u>×</u>			-15.0-				4,7,7
-5 17.0	<u>×</u>						1	
17.0	×	Stiff to very stiff, g	ray, moist, SILTY LOAM	-17.5-	1			
	×_x				1			
-6	×_				1/1	7		
	× ×			-20.0-				4,6.7
	××							
	× <u>×</u>]			-22.5-				
-7	$\frac{x}{x}$							
25.0	××					8	- 1	
23.0		End of	Boring at 25 feet	25.0-				4,5,7
∑ w	ATER	LEVEL WHILE DRILLI	NG None				MARKS 179932	23.2 E 1094477.7
SPLI	T SPC	DON SHELBY TU		OCK CORE				

CLIENT	Par	sons Brinckerhoff		LOG			IG NUM	BER	DES. NO.				
PROJEC	CT NAI	ME Will County H	lighway No. 16 Bell Road		R	W-	16		PROJECT N	0.			
SITE LO	CATIC	N Homer Glen,	Illinois	STRU		RE		5	STATION 2023	+16.08	OFFSE	T -22.	.5 ft
BORING		3-6-14	RIG Diedrich D-50	FI	LE N	UMB	ER	\oplus	CALIBRATED PE	ENETRO	METER,	TONS/	/FT²
BORING	3	3-6-14	FOREMAN Jawed Ansari		100	649		0	UNCONFINED O	OMPRES	SSIVE ST	TRENG	iTH,
	SUR	FACE ELEVATION	765.9 ft (233.45 m)			SAM	PLE	0	1 2	3	4	5	6
(METERS) STRATA DEPTH (FEET)	TEXTURAL	DES	CRIPTION OF MATERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• 0 4 0.	WATER CONTE	30	40	50 1	60
0.7		Asphalt 8 inche								- 1	- 1111		
1.1 - -1		Crushed stone of Hard, dark brown Loam FILL	5 inches n and black, moist, Silty	- 2.5 -		1			121,	17.14	(Ð	
6.0				- 5.0 -		2			3,7,8		(Ð	
 2	× _ ×	Very stiff to hard SILTY CLAY LC	d, brown and gray, moist, DAM	- 7.5 -	1	3			3,4,6	• 0			
3	X X X X X X X X _			-10.0-		4			3,5,7	(O		
- - -4 -	xx x x	LL = 32, PI = 15	at appx 14 ft	-12.5-	1	5			4,7,12				0
5 17.0	x			-15.0-	<i>y</i>				4,9,				
6 	× × × × × × × × × × × × × × × × × × ×	Very stiff to stiff,	gray, moist, SILTY LOAM	-17.5- -20.0-		7			3,5,6	C	Š		
	× × × × × × × × × × × × × × × × × × ×			-22.5-		8							
20.0		End	of Boring at 25 feet	25.0-					3,4,7				
	ATER	LEVEL WHILE DRIL		CK CORE			179939		E 1094476.5		,	- K	

CLIENT P	arsons Brinckerhoff		LOG			NG NUME	BER	DES. NO.			
PROJECT N	AME Will County Hig	hway No. 16 Bell Road		R	W-	17		PROJECT	10.		
SITE LOCAT	TION Homer Glen, Illi	nois	STRU		RE		S	STATION 2023	+91.07	OFFSE	⊤ -26.8 f
BORING STARTED	3-6-14	RIG Diedrich D-50	-	LE N	UMB	ER	\oplus	CALIBRATED P	ENETRO	METER,	TONS/FT ²
BORING	3-6-14	FOREMAN Jawed Ansari		100	649		0	UNCONFINED O			
COMPLETE	J			1	SAM	PIF	0	1 2	3	4	5
		oo.o it (200.40 iii)			J. ,			WATER CONTE	ENT %	-1	1
E E E E			DEPTH (FEET)	ERY	E E	E F E	0	10 20	30	40	50
(METERS) RATA DEP (FEET) EXTURAL	DESC	RIPTION OF MATERIAL	HE HE	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	1	_11_	1		_1
STR	SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, very moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM		REC	ž	PC V	0	BLOW COUNTS	30	40	50	
1000	DESCRIPTION OF MATERIAL Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, ver moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM					Ť	20	1	Ť	1	
1.0	ED 3-6-14 FOREMAN Jawed Ansa SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, very moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM	nches	7	-							
\bowtie	ED 3-6-14 FOREMAN Jawed Ans SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, v moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM	dark brown and black, very		//	1			•		l d)
. 🔯	SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM	Ly Loam File	- 2.5 -					14,10	16	5	
1 🛞	NG TED 3-6-14 RIG Diedrich D-5 NG JOLETED 3-6-14 FOREMAN Jawed Ansa SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches 1.0 Crushed stone 4 inches Hard to very stiff, dark brown and black, very moist to moist, Silty Loam FILL Asphalt 8 inches Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM TO THE STATE OF			1	l La						
\bowtie	NG TED 3-6-14 RIG Diedrich D-5 NG J-6-14 FOREMAN Jawed Ansar SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches 1.0 Crushed stone 4 inches Hard to very stiff, dark brown and black, ve moist to moist, Silty Loam FILL Asphalt 8 inches Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY LOAM		E 0	/	2			4,5,6\	\oplus		
6.0	Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, very moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM	- 5.0 -					7,5,7				
2	SURFACE ELEVATION 766.0 ft (233.48 m) DESCRIPTION OF MATERIAL Asphalt 8 inches Crushed stone 4 inches Hard to very stiff, dark brown and black, ve moist to moist, Silty Loam FILL Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM Hard, gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM	brown and gray, moist,		1	3						-
×	SILTY CLAY LOA	IVI	- 7.5 -	/				3,6,8			0
× _	Hard to very stiff, brown and gray, moist, SILTY CLAY LOAM		100.00								2
×_	1				4						
-3	*		-10.0-	1				3,6,7			
<u>~</u>										7	
	*			/	5				Δ (Φ		
13.0	*	OII TV OI AV LOCCE	-12.5-					9,11,	15	The same	
	.0		1							6.	
	×		-15.0-	/	6			4,8,11			0.
<u>×</u> _	Ž		10.0								
5 17.0 = -	*							j/			
×	Very stiff, gray, m	oist, SILTY LOAM	-17.5-					<i>i</i> /			
×	1									.,6	
×					7				0		
6 ***	-]		-20.0-					4,5,8			
××									1 2		
××			-22.5-								
7 × ×			22.5								
× ×				1	8						
25.0		Boring at 25 feet	25.0-	1				5,5,6	C)	
				M.		AAA DIG					
☑ WATE	ER LEVEL WHILE DRILLI	NG None				MARKS 179947	3 E	1094470.4			
SPLIT SI	SPOON SHELBY TUBE A AUGER PRO		CK CORE			_	>				
_							W) K&SE	NGIN	EERS,	INC.
T PL - PLA	STIC LIMIT + LL - I	LIQUID LIMIT 74 - UNIT DRY	VVEIGH	1		-					

CLIENT	Pa	rsons Brinckerhoff			LOG			ng num -18	BER	DES. N	10.			
PROJEC	CT NA	ME Will County Hi	ghway No. 16	Bell Road				-10		PROJE	CT NO.			
SITE LO	CATIO	ON Homer Glen, II	linois		STRU		RE			STATION	2024+66	6.07 OF	FSET -	26.1
BORING STARTE	D	3-6-14	RIG	Diedrich D-50	F	LE N	IUME	BER	\oplus		TED PENE			
BORING COMPLE	;	3-6-14	FOREMAN	Rudolf Das		10	649		0	UNCONF TONS/FT	INED COM	MPRESSI\	/E STRE	NGTH
Ŧ		FACE ELEVATION	766.3 ft (233.5	7 m)			SAN	1PLE	0	1	2	3	4	5
(METERS) STRATA DEPTH (FEET)	TEXTURAL CLASSIFICATION	DESC	CRIPTION OF M	MATERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• 0 0 0	10 BLOW CO	DUNTS	30	1	50 i
1.0		Asphalt 11.5 inc	hes			1								
1.5		Crushed stone	0.11			1	1					1,		
3.0		Hard, dark brow crushed stone F	n, moist, Silty ILL	/ Loam with	- 2.5 -	/	'				37,2	112		
-1	× ×	Very stiff, grayisl	h brown, moi	st, SILTY CLAY		1					1	y - 4"		
	× .	LL = 38, PI = 20			- 5.0 -	/	2			6,6,8	•			
6.0	× ×				3.0									
-2		Medium dense, l	brown, moist	, SANDY LOAM			3			\bigvee				
8.0		NO DECOVEDY			- 7.5 -		1			4,5,5	I			
		NO RECOVERY				7	4				1			
-3					-10.0-	/				5,7,9	7			
11.0	X	Very stiff, gray, n	noist. SILTY	CLAY LOAM		1								
	×	,,, 1			-12.5-	1	5			5,8,9	2	þ		
-4	x				12.0							1		
	× .						6					0		
	x x				-15.0-					5,8	11			
-5	× _ ×										1			
	×				-17.5-							***		
	× ;					+	200					10.4780.87879		
6	- X				-20.0-	/_	7			5,7,10		0		
	X											j		
22.0	×	Very stiff, gray, n	noiet SII TV	LOAM						ļ		Ê		
7	× <u>×</u>	very sun, gray, fi	ioist, SILTT	LOAIVI	-22.5-					1		10444		
	× ×					1	8							
25.0	× ^ ·	End o	f Boring at 2	5 feet	25.0-	/								
Ż W	ATER	LEVEL WHILE DRILL						MARKS 179954	8.0	E 10944	69.2			
SPLI	T 9P/	OON SHELBY T	UBE AUG	ER Ø PO	CK CORE	ė.								
			LIQUID LIMIT	γ_d - UNIT DRY				() K8	SENG	SINEE	RS, IN	IC.



CLIENT	Pa	rsons Brinckerhoff			LOG			IG NUM	BER	DES	. NO.				
PROJEC	CT NA	ME Will County Hig	hway No. 16	Bell Road	1	R	W-	20		PRO	JECT N	0.			
SITE LC	CATIO	ON Homer Glen, III	inois		STRU		RE		S	TATIC	N 2026	+16.09	OFFSE	⊤ -16.	3 ft
BORING		2-28-14	RIG	Diedrich D-50	-	LE N	UMB	ER	\oplus	CALIB	RATED PI	ENETRO	METER,	TONS/F	-T ²
BORING	;	2-28-14	FOREMAN	Nayeem Khaja		100	649		0	UNCO TONS/	NFINED C	OMPRES	SSIVE S	TRENGT	ΓH,
COMPLI		RFACE ELEVATION 7					SAM	PLE	0	1	2	3	4	5	6
S)					1	>			•	WATE	R CONTE	NT, %			
(METERS) RATA DEP (FEET)	JRAL	DECO	DIDTION OF I	MATERIAL	DEPTH (FEET)	TYPE	BER	THO THO B/m/g	0	10	20	30	40	50	60
(METERS) STRATA DEPTH (FEET)	TEXTURAL CLASSIFICATION	DESC	RIPTION OF I	WATERIAL		TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	Δ	BLOW	COUNTS				
'n	CF					R.			0	10	20	30	40	50	60
0.6	Ö	Asphalt 7 inches Crushed stone 7	inches						И						
	<u>x</u> x	Hard, brown and	gray, moist	, SILTY CLAY			1		N.					⊕	
	<u>×</u>	LOAM			- 2.5 -	_					1 4	0,16 17	3		
-1	× ×								И.		1		Ţ.		1
	x - x	De la companya de la			- 5.0 -		2			3,5,7			Ф		
6.0	× — X				3.0						i				
_2	X	Very stiff, brown a CLAY LOAM	and gray, m	ioist, SILTY		1	3								
	<u>×</u> ×	OLAT LOAW			- 7.5 -	1			3,	3,5					
-	× - X					1					1	%. T			
	× _ ×				40.0		4			3,5	•	ф			
-	<u>x</u> x				-10.0-				3,	3,5	1	3			
	<u>×</u>					/	5								
	× ×				-12.5-	1	-		3	,4,5		0			
- 4	×					1					1	1			
-	× ×	LL = 31, PI = 16 a	at appx. 14	ft.			6		Ш,		•	5			
	× - ×				-15.0-					2,4,5	i	1			
5 	× _ ×					11.									
- 17.0	-	Very stiff, gray, m	oist, SILTY	CLAY LOAM	-17.5-						i				
	X										1				
6	× .						7	11.77	Ш			0		-	
<u>-</u> 6	×				-20.0-					3,5,7	T	1			
- 00.6	× ×										1	7			
22.0	×	Very stiff, gray, m	oist, SILTY	LOAM	-22.5-						\	1			
- 7	×										1	F			
	× ×						8					\			
25.0	*	End of	f Boring at	25 feet	25.0-						4,6,19				
∑ v	IATE	R LEVEL WHILE DRILL	ING None			1 1 1	RE	MARKS							
<u></u> V	VAIE	VERVE WHILE DRILL	INO NOILE					179969		E 109	4475.4				
SPL	IT CD	OON SHELBY TO	UBE AU	GER Ø BO	CK CORE			-							
			LIQUID LIMIT					(W) H	(&SE	NGIN	EERS	, INC	
+ PL-	PLAS	TIC LIMIT + LL -	LIQUID LIMIT	Id - UNIT DR	VVEIGH	1		,	W						

CLIENT	Pai	rsons Brinckerhoff			LOG			NG NUM	BER	DES.		neet			
PROJEC	CT NA	ME Will County High	ghway No. 16 B	ell Road		R	W-	-21		PRO	JECT N	0.			
SITE LC	CATIO	ON Homer Glen, III	linois		STRU		RE		S	TATIO	N 2026	⊦76.06	OFFSI	ET -31.	0 ft
BORING		2-28-14	RIG	Diedrich D-50	100,000,000	HALL SAGE	UMB	ER	\oplus	CALIBR	ATED PE	NETRO	METER	, TONS/I	-T ²
BORING	3	2-28-14	FOREMAN	Jawed Ansari		10	649		0	UNCON TONS/F	IFINED C	OMPRE	SSIVE S	TRENG	ΓH,
	SUR	FACE ELEVATION 7	766.5 ft (233.63	m)			SAM	PLE	0	1	2	3	4	5	
(METERS) STRATA DEPTH (FEET)	TEX	Asphalt 7.5 inche		TERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• • •	10	20 COUNTS	NT, %	40	50	
-1.C -1 -2 -3		Crushed stone 4 Hard to very stiff, SILTY CLAY LO	.5 inches , brown and gr AM	ray, moist,	- 2.5 - - 5.0 - - 7.5 -		2 3			4.5,7 3,6,8	11.13.12	0	0	⊕	
4 13.5 -5 17.0	×	Low Recovery Sa Very stiff, grayish LOAM		, SILTY CLAY	-12.5- -15.0-		5			5,71		Sec.	0	Service Control of the Control of th	
-6 -7	X	Very stiff, gray, m	noist, SILTY C	LAY LOAM	-17.5- -20.0- -22.5-		7		3	2,5,5	•				
25.0			(D. 1)		25.0	/	8			5,6,10		C)		
		End of	f Boring at 25	reet											
SPLI	IT SPC			R	CK CORE			179975	7.8		459.2 & S EI	NGINE	EERS	, INC	

CLIENT Pa	rsons Brinckerhoff		LOG			IG NUMI	BER	DES.	NO.				
PROJECT NA	ME Will County Hig	hway No. 16 Bell Road		R	W-	22		PRO	JECT N	0.			
SITE LOCATION	ON Homer Glen, Illi	nois	STRU		RE		S	TATIO	N 2027-	+66.07	OFFSE	⊤ -28.8	ft
BORING STARTED	2-14-14	RIG Diedrich D	-50 FI	LE N	UMB	ER	\oplus	CALIBR	RATED PE	NETRO	METER,	TONS/F	T ²
BORING COMPLETED	2-14-14	FOREMAN Jawed Ans	sari	100	649		0	UNCON TONS/	NFINED C	OMPRE	SSIVE ST	FRENGT	Н,
SUE	RFACE ELEVATION 7	66.6 ft (233.66 m)			SAM	PLE	0	1	2	3	4	5	
STRATA DEPTH (FEET) TEXTURAL ASSIFICATION	W		Τ.	>	1		•	WATER	R CONTE	NT, %			
RATA DEP (FEET) EXTURAL	DESC	DIDTION OF MATERIAL	DEPTH (FEET)	PE	BER	GHT g/m/g	0	10	20	30	40	50	
TRA]	DESC	RIPTION OF MATERIAL		TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m ³)	Δ	BLOW	COUNTS				
S LA	Asphalt 9.5 inches Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.		2			0	10	20	30	40	50		
0.8	The state of the s												
×	Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.		1/	1									
20×	Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	- 2.5 -	1						7.21	,17			
<u>x</u>	Asphalt 9.5 inches Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.		+					1		175			
<u>x_</u>	Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	F.0	/	2			3,5,7	•	Ф				
<u>x</u>	Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	- 5.0 -					3,3,4	1					
<u> </u>	Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.		1	3				i					
<u>x</u>	Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	- 7.5 -	1				3,4,6	9	0				
xx	Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.		1							19.			
				/	4				2			0	
11.0			-10.0-					3,5,9	1			1	
71.0 X	Asphalt 9.5 inches Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	Y	1	5				i l					
× ×	Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	-12.5-	/ _	,			3,6,8	7					
, <u>x</u>	Crushed stone 4 inches Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft. Hard to very stiff, gray, moist, SILTY CLAY							1					
× - ×	Hard, dark brown and gray, moist, SILTY LOAM Very stiff to hard, brown and gray, moist, SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.			6						0			
x x	SILTY CLAY LOAM LL = 29, PI = 12 at appx. 4 ft.	-15.0-					3,5,7						
<u>x</u>	Hard to very stiff, gray, moist, SILTY CLAY							1					
X			-17.5-						1				
x									1	1			
x x					7					0			
8 - X			-20.0-					3,5,7	T				
x x									1. I				
x - x			-22.5-						i l				
7			22.0						1				
x					8				1				
25.0	End of	Boring at 25 feet	25.0-	/				46,8					
✓ WATER	R LEVEL WHILE DRILL	NG None				MARKS		E 400	1450.2				_
	ATER LEVEL WHILE DRILLING None			IN	179984	H. 9	= 1094	44 09.2					
SPLIT SP	OON SHELBY TU	JBE AUGER	ROCK CORE			6		12	005	NOW	EEDO	INIO	
+ PL - PLAS	TIC LIMIT + LL -		IT DRY WEIGH			(<i>K</i>	&SE	NGIN	EEKS	, INC.	

CLIENT	Pa	rsons Brinckerhot	ff	LOG			NG NUM	BER	DES.	NO.				
PROJEC	CT NA	ME Will County	Highway No. 16 Bell Road		R	W-	23		PROJ	ECT NO	0.			
SITE LC	CATIO	ON Homer Glen ,	Illinois	STRU		RE		5	TATIO	V 2028+	41.06	OFFSE	⊤ -29.6	6 ft
BORING		2-14-14	RIG Diedrich D-50	F	ILE N	UMB	ER	\oplus	CALIBR	ATED PE	NETRO	METER,	TONS/F	-T ²
BORING	3	2-14-14	FOREMAN Jawed Ansari		10	649		0	UNCON TONS/F	FINED C	OMPRES	SSIVE S	FRENGT	ΓH,
	TO SOLVE SE	RFACE ELEVATION	766.8 ft (233.72 m)	1		SAM	PLE	0	1	2	3	4	5	6
(METERS) STRATA DEPTH (FEET)	NO			T	>			•	WATER	CONTE	NT, %			
(METERS) RATA DEP (FEET)	CAT		ACDIDION OF MATERIAL	DEPTH (FEET)	PE	BER	ENS FINE	0	10	20	30	40	50	60
RA FA	SSF	DE	SCRIPTION OF MATERIAL	급	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	Δ	BLOW	COUNTS				
S	CLA			March 1	8		L . 0	0	10	20	30	40	50	60
0.8	8				Π									
1.2		Asphalt 10 inches Crushed stone 4 inches	4 inches		-//	1								
3.0	\times	MAME Will County Highway No. 16 Bell Road TION Homer Glen, Illinois 2-14-14 RIG Diedrich D-1 2-14-14 FOREMAN Jawed Ansa JRFACE ELEVATION 766.8 ft (233.72 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown, very moist, Silty Loam FILL / ORIGINAL TOPSOIL Very stiff, brown and gray, moist, SILTY CLAY LOAM Low Recovery Sample S-6 Medium stiff, gray, moist, SILTY LOAM Lu = 23, Pl = 7 Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM Very stiff, gray, moist, SILTY LOAM	- 2.5 -	71					9	7.7	1,28	₽		
-1	\otimes	ATION Homer Glen, Illinois 2-14-14 RIG Diedrich D-50 2-14-14 FOREMAN Jawed Ansar SURFACE ELEVATION 766.8 ft (233.72 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown, very moist, Silty Loam FILL / ORIGINAL TOPSOIL Very stiff, brown and gray, moist, SILTY CLAY LOAM Low Recovery Sample S-6 Medium stiff, gray, moist, SILTY LOAM LL = 23, PI = 7 Wery stiff, gray, moist, SILTY LOAM End of Boring at 25 feet ATER LEVEL WHILE DRILLING None	T	1					1		8"			
4.0		NAME Will County Highway No. 16 Bell Road ATION Homer Glen, Illinois 2-14-14 RIG Diedrich D-5 2-14-14 FOREMAN Jawed Ansar URFACE ELEVATION 766.8 ft (233.72 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown, very moist, Silty Loam F Stiff, black, moist, Silty Loam, FILL / ORIGINAL TOPSOIL Very stiff, brown and gray, moist, SILTY CLAY LOAM Low Recovery Sample S-6 Medium stiff, gray, moist, SILTY LOAM Medium stiff, gray, moist, SILTY LOAM The state of the state o	1	1/	2			5)				
	x-j	2-14-14 RIG Diedrich D-5 2-14-14 FOREMAN Jawed Ansa URFACE ELEVATION 766.8 ft (233.72 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown, very moist, Silty Loam F Stiff, black, moist, Silty Loam, FILL / ORIGINAL TOPSOIL Very stiff, brown and gray, moist, SILTY CLAY LOAM LL = 23, PI = 7	- 5.0 -	1				2,5,6						
	× .				1					1	N.			
_2 -	×			- 7.5 -	1	3		Ш	3,4,6	•	0	(cal		
	× .			7.5					1,1,0	1		N.		
	X				-//	4	119 pc							
_3	×			-10.0-	1		kg/m³)		3,5,7	7		Ψ		
	_ ×				1			П		X				
	- ×				1/	5			4		(
				-12.5-	+				5,8	,10				
<u>-4</u>	x	Low Recovery	Sample S-6		<u> </u>		l l			$^{\prime}$				
	××	Low Moderaly	Sample S	-15.0-	-/ $ $	6			5.5.7	•				
	×			-15.0					3,3,1	İ				1
	×							Н		1				
	× ×			-17.5					1	<i>i</i>				
18.	5 2							Н	11 !					
	×	Medium stiff, g	ray, moist, SILTY LOAM	7		7			2					
- 6 -	×_x			-20.0-	+	1		3,	3,4					
	× ×.							H	1					
22.	×-	Very stiff gray	moist SILTY LOAM	-22.5				Ш	1	1	1			
_ 7	×	vo., oun, gray	,	_22.0							N _E			
	××			V E	-//	8					1			
25.	0×~	Enc	of Paring at 25 fact	25.0-	7	•			5,6,	3	C)		
		Enc	of Boring at 25 feet			II.						- 4		
ΔV	VATE	R LEVEL WHILE DR	RILLING None				EMARKS 17999		E 1094	1456.5				
		Sa Ten	D 73	20213 504	25.7	+	-							
SPI				OCK COR			(W) K	&SE	NGIN	EERS	, INC	
+ PL -	PLAS	STIC LIMIT + L	L - LIQUID LIMIT 🥻 - UNIT D	RY WEIGH	HT		,	W	/					

CLIENT	Pa	rsons Brinckerhoff		LOG	OF B	ORI	NG NUM	BER	DES.	NO.				
PROJEC	T NA	ME Will County Hig	hway No. 16 Bell Road		R	W-	24		PRO	JECT N	0.			
SITE LO	CATIO	ON Homer Glen, Illi	nois	STRU		RE		5	OITAT	N 2029	+16.06	OFFSE	T -29.	9 ft
BORING STARTE		2-14-14	RIG Diedrich D-50	F	ILE N	UMB	ER	\oplus	CALIBR	ATED PE	ENETRO	METER,	TONS/I	FT ²
BORING		2-14-14	FOREMAN Jawed Ansari		10	649		0	UNCON TONS/F	IFINED C	OMPRES	SSIVE ST	RENG	гн,
	SUF	RFACE ELEVATION 7	66.9 ft (233.75 m)			SAM	PLE	0	1	2	3	4	5	6
(S) EPTI	NO			In	>		L ^	•	WATER	CONTE	NT. %			
(METERS) RATA DEP (FEET)	URAI	DESC	RIPTION OF MATERIAL	DEPTH (FEET)	TYPE	NUMBER	SH P	0	10 1	20	30 1	40	50 I	60
(METERS) STRATA DEPTH (FEET)	SS	DESC	NIFTION OF WATERIAL	0.5	TYPE	NCN	DRY UNIT WEIGHT pcf (kg/m³)	Δ	BLOW	COUNTS				
ω'.	CLA				2			0	10	20	30	40	50	60
0.8	0	Asphalt 10 inches												
_ 1.3	\otimes	Crushed stone 6 Hard to very stiff,	dark brown and black, Loam FILL		1/	1						P	a	
	\bowtie	moist, Silty Clay I	Loam FILL	- 2.5 -		1				7		11,20,25		
-1	\bowtie				1				4	1	100			
	\bowtie			- 5.0 -		2			4,6,8	1	Ð			
6.0	\bowtie			3.0	H					Ì	5			
- 2	× ×	Very stiff to hard, SILTY CLAY LOA	brown and gray, moist,		-//	3								
	× ×	SILTI CLAT LOA	NVI	- 7.5 -	7				4,5,7		Ψ.			
	× ×				1					1				
-	× ;	LL = 32, PI = 14 a	at appx. 9 ft.	1 V27 To	1/1	4						0		
_ 3	× ×			-10.0-					4,5,8	χI			-	
	× ×				1/	5				1			13	
	× ×			-12.5-	1				9	,8,12				9
_4	× ,				1	-	1							1
	xx				1/1	6					2			0
	× - ×			-15.0-						6,11,17	1		1	
	x - x									1				
- 17.0	×	Very stiff, gray, m	oist, SILTY LOAM	-17.5-	1					1			ř	
	×									1/				
	× ×					7			1	4				
- 6	*-*			-20.0-					4,5,9	T 1				
	××.													
	×			-22.5-							1			
- 7	× - x													
	×				1/	8			4					
25.0	×	End or	f Boring at 25 feet	25.0-	+				4,6,	9				
Δ N	ATF	R LEVEL WHILE DRILL	ING None				EMARKS							
						N	17999	97.8	E 109	4454.4				
SPL	IT SP	OON SHELBY TO	JBE AUGER RO	CK COR	E		1	(T)	١.					
			LIQUID LIMIT Ya - UNIT DR				(I) K	&SE	NGIN	EERS	, INC	•

PROJECT SITE LOCA BORING STARTED BORING COMPLETE S	TION			6 Bell Road		R	W-	25		PROJ	FOT NO				
BORING STARTED BORING COMPLETE	E D		llinois							FROS	ECLINC).			
STARTED BORING COMPLETE		2-14-14			STRU		RE		9	TATION	2029+	91.06	OFFSE	T -30.2	ft.
BORING COMPLETE			RIG	Diedrich D-50		LE N	UMB	ER	\oplus	CALIBRA	ATED PE	NETRO	METER,	TONS/F	T ²
9		2-14-14	FOREMAN	Jawed Ansari		10	649		0	UNCON		OMPRE	SSIVE ST	RENGT	H,
	SURFACE ELEVATION 767.0 ft (233.78 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty C Loam FILL		1		SAM	PLE	0	1	2	3	4	5	6		
STRATA DEPTH (FEET) TEXTURAL	Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty (Loam FILL) Hard to stiff, brown and gray, moist, SILT		1	>			•	WATER	CONTEN	NT, %					
(WETERS) RATA DEP (FEET) EXTURAL	Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty CLOAM Hard to stiff, brown and gray, moist, SILT CLAY LOAM	MATERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	0	10	20	30	40	50	61		
TRA TEXT	SSIF	DES	CKIPTIONO	WATERIAL		_	NON	ORY WEI		BLOW C	OUNTS				
ço _						1 2			0	10	20	30	40	50	6
0.8		2-14-14 RIG Diedrich D- 2-14-14 FOREMAN Jawed Ans URFACE ELEVATION 767.0 ft (233.78 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty CLAY LOAM Hard to stiff, brown and gray, moist, SILTY CLAY LOAM													
1.0	\otimes F	Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty C Loam FILL Hard to stiff, brown and gray, moist, SILTY CLAY LOAM	, moist, Silty Clay			1						100	A		
8	X ∟	IAME Will County Highway No. 16 Bell Road FION Homer Glen, Illinois 2-14-14 RIG Diedrich D- 2-14-14 FOREMAN Jawed Ans JRFACE ELEVATION 767.0 ft (233.78 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty CLOAM FILL Hard to stiff, brown and gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY CLAY LOAM Total Right Diedrich D- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		- 2.5 -	1	1				T	19	121,21			
1	2-14-14 RIG Diedrich D- DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty C Loam FILL Hard to stiff, brown and gray, moist, SILTY CLAY LOAM			+			H								
*	NAME Will County Highway No. 16 Bell Road TION Homer Glen, Illinois 2-14-14 RIG Diedrich D-6 2-14-14 FOREMAN Jawed Ansa URFACE ELEVATION 767.0 ft (233.78 m) DESCRIPTION OF MATERIAL Asphalt 10 inches Crushed stone 4 inches Hard, dark brown and black, moist, Silty C Loam FILL Hard to stiff, brown and gray, moist, SILTY CLAY LOAM Very stiff, gray, moist, SILTY CLAY LOAM		- 5.0 -	1	2		11.	3,4,6\	9	(Ð				
6.0	Loam FILL Hard to stiff, brown and gray, moist, SILTY		0.0						/		7				
-2	1	lard to stiff, bro	wn and gray	, moist, SILTY		1	3				4		6		
<u>x</u>	Hard to stiff, brown and gray, moist, SILTY CLAY LOAM			- 7.5 -	1	1			4,6,8						
-	Hard to stiff, brown and gray, moist, SILTY CLAY LOAM				+	-						1,1,1,4,1			
-3	Hard to stiff, brown and gray, moist, SILT CLAY LOAM		-10.0-	\sqrt{L}	4			5,6,8			C)			
					-10.0-					3,0,0	1	. r =	77"		
						1	5			6	1				
13.0	3				-12.5-	1	-		Ш	3,5,6	Y				
-4 x	- V	ery stiff, gray, r	moist, SILTY	CLAY LOAM		1					1 1				
×					-15.0-	V	6			5.6.9		0			
<u>x</u>	<u> </u>				-15.0-					9,0,9	i				
-5											i	00			
					-17.5-	-					1	4			
<u>x</u>	= 3					1									
6 -	=				00.0		7	1	Ш	4,4,6		Ć			
_					-20.0-					4,4,0	1				
<u>×</u>											i	1			
					-22.5-						i	2			
7 🗷						1					1				
25.0						1	8			. •		0			
20.0		End o	of Boring at	25 feet	25.0-					4,7,					
∑ WA	NATER LEVEL WHILE DRILLING None							18000		E 1094	452.2				
SPLIT	SPOO	N SHELBY	JGER RO	CK COR	<u> </u>	-		(III)	١	&SE					

CLIENT	Par	sons Brinckerhoff	f		LOG			IG NUM	BER	DES.	NO.				
PROJECT	Γ NΑI	ME Will County F	lighway No. 1	6 Bell Road		R	W-	26		PRO	JECT N	0.			
SITE LOC	ATIC	ON Homer Glen,	Illinois		STRU		RE		8	TATIO	N 2030	+66.05	OFFSE	T -31.7	ft ft
BORING STARTED)	2-13-14	RIG	Diedrich D-50		LE N	UMB	ER	\oplus	CALIBR	RATED PI	ENETRO	METER,	TONS/F	T ²
BORING COMPLE		2-13-14	FOREMA	N Rudolf Das		100	649		0	UNCO!	NFINED C	OMPRE	SSIVE S	TRENGT	Ή,
	SUR	FACE ELEVATION	767.0 ft (233	.78 m)			SAM	PLE	0	1	2	3	4	5	6
S) EPTH	NO.]	>			•	WATE	R CONTE	NT, %			
(METERS) RATA DEP (FEET)	CAT	DES	SCRIPTION OF	MATERIAL	DEPTH (FEET)	TYPE	BER	GHT GMT	0	10	20 I	30	40	50 I	60
(METERS) STRATA DEPTH (FEET)	ASSIFICATION	DES	CKIF HON OF	WATERIAL	۵۳.	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	Δ	BLOW	COUNTS				
, N	CF					2			0	10	20	30	40	50	60
0.8		Asphalt 10 inch													
1.05	\bowtie	Crushed stone Hard, dark brow	∠ incnes vn, moist, Si	Ity Clay Loam			1				6			h a	
3.0	\bowtie	FILL			- 2.5 -	+					7		11	25,26	
_1 [× _ ×	Hard to very stir	ff, brown an	d gray, moist,		1					1				
		SILTI CLATEC	JAIVI .			1	2				7,10,2				6.5
	× ;				- 5.0 -						1,10,12				123.5
_2	× - ×					1	3			/	1		~ .		
	× - ×				- 7.5 -	1	٥			2,4,6	9	(). I		
8.0	×	Stiff, brown, mo	ist, SILTY C	CLAY LOAM						1					
	×						4								
_3	×				-10.0-	f +				9,	10,11				
11.0	(<u> </u>	Very stiff to har	d, gray, moi	st, SILTY LOAM		1	100				/				
- -	<u>×</u>		, 0		-12.5-		5			4,5,7	90				
_4 ×	× ×				12.0					,,,,,	V	11/2-48	-		
- *	·	LL = 28, PI = 13	Ratianny 14	1 ft		1	6				1				
	<u>×</u>	20,11	у ас аррх. Т		-15.0-	1					5,8,12				4
- ×	×										$i \mid I$				4
	×				-						11				
	(<u>~</u>)				-17.5-						1 /			2	
×	<u>×</u>					1	7								
_6 ×	×				-20.0-	1	1,42.1				4,10,1	6		Ψ	
	<u>×</u>										11/			X.	
×	× .										1/		7		
_7 ×	×				-22.5-						11		1		
	× -				<u> </u>	1					1/		, T		
25.0	<u>×</u>				25.0-	/	8				16	C)		
		End	of Boring at	t 25 feet	20,0										
Ā W	ATER	LEVEL WHILE DRI	LLING 24 feet					180014		E 109	4448.9				
SPLIT			TUBE A AI		CK CORE			(T) к	&SE	NGIN	EERS	, INC	

CLIENT	Par	sons Brinckerho	off		LOG				G NUM	BER	DI	ES. NO.					
PROJE	CT NAN	ME Will County	Highway No. 16	Bell Road			RV	V-2	27		PI	ROJEC	T NO.				
SITE LO	OCATIO	N Homer Glen	, Illinois		STRU		JRE			- 3	STA	TION 20	31+26	6. 05 O	FFSE	T -32.0)
BORIN		3-7-14	RIG	Diedrich D-50	100000000000000000000000000000000000000	A/45/2/A	NUN	ИВЕ	ER	\oplus	CAI	IBRATE	D PENE	TROM	ETER,	TONS/F	T ²
BORIN		3-7-14	FOREMAN	Rudolf Das		1	064	9		0		CONFINE	ED COM	PRESS	SIVE S	TRENGT	Ή,
		FACE ELEVATION					SA	MF	PLE	0			2	3	4	5	
STRATA DEPTH	TEXTURAL	DE	ESCRIPTION OF	MATERIAL	DEPTH (FEET)	TYPE	RECOVERY	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• • •	BLO	DM CON	o L NTS	% 30 30	40	50	
0.																	
3.		Hard, dark bro Loam with cru	own and gray, shed stone FII	moist, Silty Clay LL	- 2.5 -	1		1					17,14,7	6	(Ð	
1	×	Asphalt 9.5 inches Hard, dark brown and gray, moist, Silty Loam with crushed stone FILL Hard, brown, moist, SILTY CLAY LOAM Stiff, brown, moist, SANDY LOAM	CLAY LOAM				2				6						
2	×				- 5.0 -			0				10,10,10					
8.	0 3	Stiff brown m	noist SANDVI	OAM	- 7.5 -	/		3				5)7,13	4	and the second	.0		
3		Sun, brown, m	ioist, GANDT	LOAW	-10.0-	1		4				5,7,10)				
11.	0 × × × × ×	Very stiff, gray	v, moist, SILTY	'LOAM	-12.5-	/		5				517,12	\	0			
4	× -× × -× × -×				-15.0-	/		6				6,8,10		0			
5 18.	× × × × × × × × × × × × × × × × × × ×				-17.5-												
6	× × × × × × × × × × × × × × × × × × ×	Stiff to very sti	ff, gray, moist,	, SILTY LOAM	-20.0-			7			3,4						
7 25.	× × × × × × × × × × × × × × × × × × ×	L			-22,5- -25.0-	1		8				8,11,	ho)			
		End	d of Boring at	25 feet													_
		LEVEL WHILE DE						RE N	MARKS 18002	5 07.7	E 1	09444	7.1				

CLIENT Parsons Brinckerhoff PROJECT NAME Will County Highway No. 16 Bell Road SITE LOCATION Homer Glen, Illinois					RW-28 STRUCTURE NUMBER					DES. NO. PROJECT NO.					
										BORING	n.	2-13-14	RIG	Diedrich D-50	11 11 11 11 11 11 11
BORING		2-13-14	FOREMA	N Rudolf Das		106	349		0	UNCONFINED C	OMPRES	SIVE STR	ENGTH,		
		FACE ELEVATION	767.1 ft (233	.81 m)		3	SAM	PLE	0	1 2	3	4	5		
(METERS) STRATA DEPTH (FEET)	TEXTURAL	DE	SCRIPTION OF	MATERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	• .J \	WATER CONTE	30	40	50 6		
0.5		Asphalt 6 inche	26		-				0	10 20	30	40	50 6		
3.0	0	Crushed stone	2.5 feet		- 2.5 -		1				1	50)	15-		
-1	x x x x x x x x _	Hard to very st SILTY CLAY L	d gray, moist,	- 5.0 -		2			5,8,91		0				
- 2	x _ x _ x _ x _ x _ x _ x _ x _ x _ x _				- 7.5 -		3			3,6,9		0			
- 3	X				-10.0-		4			419,12					
13.0	- x - x - x - x	Very stiff, gray	, moist, SILT	YLOAM	-12.5-		5			3 6,8 1		O			
	× _ x x x x x x x x x x				-15.0-	1	6			3,6,8					
6	× × × × × × × × × × × × × × × × × × ×				-17.5- -20.0-	1	7			3,6,9		O Sell-seller			
-7 25.0	× × × × × × × × × × × × × × × × × × ×		1, 0		-22.5-		8			4,8,8	0				
		End	of Boring at	t 25 feet	20.0										
y y The state of the s		LEVEL WHILE DR		JGER 🖟 RO	CK CORE			18003		E 1094444.5					

CLIENT Parsons Brinckerhoff PROJECT NAME Will County Highway No. 16 Bell Road SITE LOCATION Homer Glen, Illinois					RW-29 STRUCTURE NUMBER					DES. NO.						
										PROJECT NO.						
										STATION 2033+04.38 OFFSET -32.8 ft						
BORING		2-13-14	RIG Diedric		Name of the Park	LE N	UMB	ER	0	CALIBRA	ATED PEN	NETRO	METER,	TONS/F	2	
TARTE		2-13-14	FOREMAN Rudolf			10	649		0	UNCON	FINED CO					
OMPLE		FACE ELEVATION	767.3 ft (233.87 m)	Das	-		SAM	PIF	O 1 2 3 4 5							
PTH	-	I ACE ELEVATION	707.5 11 (255.67 11)			1.	[WATER	CONTEN	T %	1			
STRATA DEPTH (FEET)	RAL				DEPTH (FEET)	ERY	ER	FI F	0	10	20	30	40	50		
SAT/	SIFIC	DE	SCRIPTION OF MATERIAL		HE.	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)		BLOW C	OUNTS				_	
STE	TEXTURAL CLASSIFICATION					RE	Z	5 2	0	10	20	30	40	50		
0.7		Asphalt 8 inche	es						I	r		11		1	_	
1.0		Crushed stone	4 inches	1 10						- 1					8.	
	\bowtie	very moist, Silty	ff, black and gray, mois y Clay Loam FILL	110	- 2.5 -		1		H		•		1	3,28,25	(
	\bowtie				2.0						1					
	\bowtie					1	2				1		122			
	\bowtie				- 5.0 -	1				46,8	9					
6.0	\bowtie	V/		-4		<u> </u>				/	1					
2		Very stiff to har SILTY CLAY LO	d, brown and gray, moi DAM	St,			3			A	0	1				
	× - ×				- 7.5 -				3	,4,5	T					
	× ×					 			Ш		1					
3	×				40.0		4			3,4,6	•					
,	× ;				-10.0-					3,4,0	VI .	9				
	x .						5				1	do				
40.0	× -				-12.5-	/_				10	4,10,1A	21	0			
13.0	×	Very stiff to har	d, gray, moist, SILTY L	OAM							' /	.,				
	×						6			1	10	2.1				
	^ x .			-	-15.0-	+				4,7,	11					
	**											5. 3.				
5	××				12.5					į į		1				
	××				-17.5-							123				
	×					1	7						1			
6	× <u>×</u>	LL = 29, PI = 1	3 at appx. 19 ft.		-20.0-	1	7	1		3,6,1	1		φ			
	× x										1		- 1			
	^ <u>~</u>										$ \cdot $					
	×-×				-22.5-						1			1		
	××					1								1		
25.0	××]				5.00		8				8,12			0		
25.0	× -	End	of Boring at 25 feet		-25.0-					5,	8,12					
WATER LEVEL WHILE DRILLING None								18003	RKS 00385.9 E 1094441.9							
							1									
SPL		and the same of th		ROCK				(W) K	& S El	IGIN	EERS	, INC.		

CLIENT Parsons Brinckerhoff PROJECT NAME Will County Highway No. 16 Bell Road SITE LOCATION Homer Glen, Illinois BORING 2-28-14 RIG Diedrich D-50					RW-30 STRUCTURE NUMBER					DES. NO. PROJECT NO. STATION 2033+79.70 OFFSET -30.8 ft																		
																	FILE NUMBER					\oplus	CALIBR	ATED PI	ENETRO	METER	, TONS/I	FT ²
																	STARTE BORING	}	2-28-14	FOREMA	N Jawed Ansari		10	0649			0	UNCON
					COMPLE		FACE ELEVATION						AMF	PLE	0 1 2 3 4 5													
(METERS) STRATA DEPTH (FEET)				T	Ť	W-2.10			WATER	CONTE	NT. %																	
(METERS) RATA DEP (FEET)	TEXTURAL ASSIFICATION		DEPTH (FEET)	ШÉ	Z Z	ER	DRY UNIT WEIGHT pcf (kg/m³)	0	10	20	30	40	50	e														
SATA FE	SEL	DE	SCRIPTION OF	MATERIAL	믬삔	TYPE	AECOVER)	NUMBER	RY U		BLOW (COUNTS			-1-													
STR	CLAS		130	Ĺ	Y H	Z	₽ > 9	0	10	20	30	40	50	6														
0.6	1	Asphalt 7 inche	es			H	+			1				1	-	_												
1.2		Crushed stone	7 inches			+	-																					
	\bowtie	Hard, brown, m	noist, Silty Cl	ay Loam FILL	1			1)	\triangle	\oplus													
3.0					- 2.5 -							1	16 18,	19														
-1	\bowtie	Medium stiff, b moist, Silty Cla		1	1					1																		
	\bowtie	FILL	.,		- 5.0 -	$\sqrt{}$		2		4,3	0																	
	\bowtie				- 5.0 -					14,0		1																
-2 70	\bigotimes					1		3					1															
7.0		Medium stiff to	very stiff, br	own and gray,	- 7.5 -	1		3		3	4.5																	
	× .	moist, SILTY C	CLAÝ LOÁM	0 ,	7.0							1																
	×					1		4			11.	1																
-3					-10.0-	1	4	7		3,	4.4	٩, ا	9															
	-3																											
	× ×					1	1	5																				
	× ×				-12.5-	71	_	8		2	,3,6√	Ψ																
-4	x					1						1																
	X							6				1 6																
	X				-15.0-	1					3,5,7																	
_	× ·						1																					
⁻⁵ 17.0) /	11 1166	LA OU TV		11						ì																
	x_x	Very stiπ to me	eaium stiff, gr	ay, moist, SILTY	-17.5-	11						1																
	× _x					1					1	1	4 4 4 7 8															
-6	[× ×]				00.0	$\sqrt{ }$		7		,	.4,5																	
	× -*				-20.0-					٥	,4,5	1 3																
	××					11					1	11																
	××				-22.5-							F																
-7	××				22.0							3																
	[×_x]					1	٦,	8		И.,		<u>i</u>																
25.0	×_		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05.6	25.0-	1		•		3,3	,4																	
		End	of Boring a	t 25 feet												W3.												
∑ v	VATER	R LEVEL WHILE DR	ILLING None						MARKS 180046		≣ 1094	1441.8																
SPL SPL	IT SP	OON SHELBY	TUBE A A	JGER RO	CK COR		-		6						S, INC													

CLIENT Pa	LOG O			G NUM	BER [DES. NO.						
PROJECT NA	RW-31 PROJECT NO.											
SITE LOCATION	ON Homer Glen, I	STRUCTURE STATION 2034+55.36 OFFSET							SET -46	.1 ft		
BORING STARTED	2-28-14	RIG Diedrich D-50		NU	MB	ER	⊕ c/	ALIBRATED	PENETR	ROMETE	R, TONS	/FT²
BORING COMPLETED	2-28-14	FOREMAN Jawed Ansari		106	0649			NCONFINED	COMPR	RESSIVE	STREN	STH,
SHE	RFACE ELEVATION	765.9 ft (233.45 m)		S	AMF	PLE	0	1 2	3	4	5	
(METERS) STRATA DEPTH (FEET) TEXTURAL CLASSIFICATION	DES	CRIPTION OF MATERIAL	DEPTH (FEET)	RECOVERY	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	W0△ BI0	10 20 .OW COUNT	30	40		
1.0 °	Gravel			П								
3.0	Hard, brown, mo	oist, Silty Clay Loam FILL	2.5		1			7,9,71	•		. 🕀	
1	Very stiff, black Clay Loam FILL	and brown, very moist, Silty		H					i			
	LL = 47, Pl = 23		5.0		2		2,4,5					
8.0	0.00		7.5		3		2,4,4		•			
3	Stiff, brown and CLAY LOAM	gray, very moist, SILTY	-10.0		4		2,3,4		•			
4 🗷	Hard to very stif SILTY CLAY LO	f, brown and gray, moist, DAM	-12.5		5			2,6,8			0	
5 ×			-15.0		6			4,619		0		
6		-17.5- -20.0-	/	7			4,6,17	1	0			
22.0 × × × × × × × × × × × × × × × × × × ×	Stiff, gray, moisi	t, SILTY LOAM	-22.5-		8							
25.0× ^ -	End	of Boring at 25 feet	25.0				3,5	5,6				
V WATER				MARKS 180053	5.5 E	E 1094423.5						
¥ WATER			CK CORE Y WEIGHT				5.5 E	K&S		NEEF	RS, INC	2

CLIENT Parsons Brinckerhoff						LOG OF BORING NUM					MBER DES. NO.					
PROJEC	T NAI	ME Will County Hi	ghway No. 16	Bell Road		R	W-	32	PROJECT NO.							
SITE LOCATION Homer Glen, Illinois						STRUCTURE NUMBER					STATION 2035+30.36 OFFSET -28.1 f					
BORING STARTED 2-28-14 RIG Diedrich D-50					FILE NUMBER				\oplus	CALIBR	RATED PE	NETRO	METER,	TONS/F	T ²	
BORING COMPLE	7	2-28-14	FOREMAN	Jawed Ansari		106	0649		0	UNCO!	NFINED C FT ²	OMPRE	SSIVE ST	RENGT	H,	
	SUR	FACE ELEVATION	767.9 ft (234.0	06 m)			SAM	PLE	0	1	2	3	4	5		
(METERS) STRATA DEPTH (FEET)	TEXTURAL	DESC	CRIPTION OF I	MATERIAL	DEPTH (FEET)	TYPE	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	· 0 0 0-	10	20 COUNTS	30	40	50 1		
0.6	0	Asphalt 7 inches Crushed stone 7														
3.0		Hard, brown, mo	y Loam FILL	- 2.5 -	1	1				0.1	5,14	7	0			
-1		Medium stiff, bla Clay Loam FILL	, moist, Silty		1					1	.00					
6.0		Clay Loan Fill	ONIONAL	TOI SOIL	- 5.0 -	1	2		2,2							
-2	× × × × × × × × × × × × × × × × × × ×	Medium stiff, bro SILTY CLAY LO	wn and gray AM	/, very moist,	- 7.5 -	1	3		2,2	2,5)	,				
—3 —4	Hard to very stiff, brown and gray, mo			gray, moist,	-10.0- -12.5- -15.0-		5			3,4,6 4,5,8	• 0		0			
-5 -6 -7	x x x x x x x x x x x x x x x x x x x				-17.5- -20.0- -22.5-		7			3,61		Explored and the second and the seco				
25.0	×	End o	of Boring at 2	DE foot	25.0-		8		8	4,5,5			0			
				EU IEEL				MARKS								
SPLI	IT SPO				CK CORE			180061				NGIN	EERS	, INC.		

CLIENT Pa	LOG	OF BO	ORIN	IG NUMI	DES. NO.						
PROJECT NA		R	W-	33	PROJECT NO.						
SITE LOCAT	ION Homer Glen, I	llinois	STRUC		E		STATION 2036+05.52 OFFSET -25.5 ft				
BORING STARTED		LE N	JMB	ER	CALIBRATED PENETROMETER, TONS/FT2						
BORING	2-28-14	FOREMAN Jawed Ansari		10649			UNCONFINED COMPRESSIVE STRENGTH, TONS/FT ²				
COMPLETED SU	SURFACE FLEVATION 768 0 ft (234 09 m)				SAMI	PLE	0 1 2 3 4 5				
		The second secon		>			WATER CONTENT, %				
(METERS) STRATA DEPTH (FEET) TEXTURAL CLASSIFICATION	DES	CRIPTION OF MATERIAL	DEPTH (FEET)	TYPE RECOVERY	NUMBER	DRY UNIT WEIGHT pcf (kg/m³)	0 10 20 30 40 50 A BLOW COUNTS 0 10 20 30 40 50				
0.6	Asphalt 7 inches	3					0 10 20 30 40 50				
1.2	Crushed stone 7	7 inches		H							
3.0	FILL	n, moist, Silty Clay Loam	- 2.5 -		1		12,19,77				
1	Very stiff, dark b										
\bowtie	Siltý Clay Loam			2							
			- 5.0 -	H			2,3,5				
6.0	Stiff to hard, bro	wn and gray, moist, SILTY			3						
8	CLAY LOAM		- 7.5 -		3		3,3,5				
x											
×	LL = 29, PI = 10	at appx. 9 ft.			4						
3 ==			-10.0-				3,5,6				
x											
<u>x</u>			-12.5-		5		5,7,3				
4											
<u>x</u>					6		6.				
<u>x</u> _	<u> </u>		-15.0-	H			4,7,10				
5											
<u>x</u>			-17.5-								
<u>x</u>			17.0								
x					7						
6	×		-20.0-	H			2,4,4				
× _											
x			-22.5-								
7			22.0				l l				
x	×				8						
25.0 🔀	End	of Boring at 25 feet	25.0				2,6,9				
	R LEVEL WHILE DRIL	LING None			RE N	MARKS 180068	85.8 E 1094435.3				
[7]		-va- [] [7]	A14 2 2								
+ PL - PLAS		TUBE A AUGER RO - LIQUID LIMIT Ya - UNIT DR'	CK CORE			(K & S ENGINEERS, INC.				
I L-FLA	O TO CHANT I LL	Elacib Elivii da - Olvii DK				•					