	-					PAGE	1	of _	4	_
Geo Services Inc.		SOI	L E	30F	RING LOG	DATE	2/8-9/2	012		
Geo Services, Inc. Geotechnicol, Environmental & Givil Engineering 805 Amberiat Court, Suite 204 Noperville, Illinois 60565 (630) 355-2838						LOGG	ED BY DR			
Noperville, Illinois 60565 (630) 355-2838						GSI J	IOB No. <u>0</u>	9174		
ROUTE FAP 353 (US 30)	DESCR	IPTION	us	Routi	e 30 @ FJ&F/CN Raile					Т
SECTION 11-Y-A	n recommend					Pro D. Corp. W.	110. 0	0 10		_
					ow Stem Auger/Rotar		DE CHE A			_
		T ME	T	I			L CME AU	Torrid	LIC	Ŧ
Struct. No		В		М	Surface Water Elev. Stream Bed Elev.	$\frac{n/a}{n/a}$	—   <u> </u>	В	U	ı
BORING NO. BS-02	F			0	Groundwater Elevation		—   E	L	C	
Station 276+82		T W	Qu	S	First Encounter	624.4	<b>▼</b>	W S	Qu	l
Offset 25.4' Right	. [,				Upon Completion	n/a	_모			L
Ground Surface Elev. 632.4	-	ft) (/6"	(tst)	(%)				(/6-)	(tsf)	ľ
4.0" ASPHALT, 6.0" SAND & GRAVEL	31.6	_			SILTY LOAM-gray-lo	ose (A-4)	611.9	-		l
	_	╕₂					_	2		l
Clayey TOPSOIL-black	_	3	П	П	]			4		Τ
e	529.4	+	2.5P	25	-		_	5	1.0B	╀
6	23.4	_					_	1		l
SILTY CLAY-brown & gray-	_	3	_	93				2		1
stiff (A-6) Wet		_ 5	l		SILTY CLAY LOAM-g medium stiff to stif		-	5		ı
6	326.9	<u>-5 6</u>	1.8B	26	mediam still to stil	(A-4/A-0)	25	5 4	0.5B	╁
	_							1		l
SANDY CLAY LOAM-brown & gray-		1	+	$\vdash$			_	3	$\vdash$	+
very loose (A-2)	_	$-\frac{1}{2}$	1	21			_	- 4 5	1.1B	l
lacksquare	524.4			1	1			Ť	1	t
		┦					_	-		l
SILTY LOAM-gray-loose (A-4)	_	3	-	$\vdash$	1		_	3	$\vdash$	t
• ,		10 4	l	100			7/		0.5B	l
6			NP	19			30	, ,		Γ
	521.9	1	T NP	19	-			1		
			I NP	19				-		l
LOAM-gray-loose (A-2/A-4)		3 5	NP NP	19			600.4			+
	521.9	3		25			Ξ			1
		3 5					Ξ	-		<del> </del>
6	521.9	3 5					Ξ	2		 
	619.4	3 5 5 5	NP	25 106	SILTY LOAM-gray-lo	ose (A-4)	600.4	2 2		+
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5	NP	25 106	SILTY LOAM—gray—lo	ose (A-4)	Ξ	2 2	NP	
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5 5	NP	25 106	SILTY LOAM-gray-lo	ose (A-4)	600.4	2 2	NP	  -  -
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5 5 - 3 4 -15 5	NP	25 106	SILTY LOAM—gray—lo	ose (A-4)		2 2	NP	
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5 5 - 3 4 -15 5	NP 0.38	25 106 22	SILTY LOAM-gray-lo	ose (A-4)	600.4	2 2	NP	<del> </del>
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5 5 - 3 4 -15 5	NP 0.38	25 106 22	SILTY LOAM-gray-lo	ose (A-4)		2 2	NP	  -  -
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5 5 - 3 4 -15 5	NP 0.38	25 106 22	SILTY LOAM-gray-lo			2 2	NP	
6 SILTY CLAY LOAM-gray- loose (A-4)	619.4	3 5 5 5 - 3 4 -15 5	NP 0.38	25 106 22	SILTY LOAM-gray-lo			2 2	NP	

560.4  560.4  55							PAGE 2	—	of _4	1	_
CSJ .0B No09174   CSJ .0B	Geo Services, Inc.	S	OIL	. В	OF	RING LOG	DATE 2/8-	9/20	12		
CSJ .0B No09174   CSJ .0B	Geotechnical, Environmental & Civil Engineering 805 Amberst Court, Suite 204						LOGGED BY	DR			
DESCRIPTION US Route 30	(630) 355-2838						GSI JOB No.	09	174		
SECTION   11-Y-A	ROUTE _FAP 353 (US 30)	DESCRIPT	ION _	US F	Route	30 @ EJ&E/CN Railroad, IDG	OT Job No. D	-91-	046-	-12	
DRILLING METHOD   Hollow Stem Auger/Rotory   HAMMER TYPE   CME Automatic											
STRUCT. NO. ——   Station ——								F Aut	oma	tic	
Steam Bed Elev.				-	110111				I		Π
BORINC NO. BS—02 Station 276+82 Othest 254 Right Ground Surface Elev. 632.4  (ft) //e* (tef) (%)  SILTY CLAY—gray— medium stiff (A−6) Wet  SAND—gray— loose to medium dense (A−3)  SAND—gray— medium dense (A−3)  SAND—gray— medium dense (A−1)  SAND—gray— medium dense (A−1)  SSLTY LOAM—gray— medium dense (A−1)  SSLTY LOAM—gray— medium dense (A−4)  SILTY LOAM—gray— medium dense to dense (A−4)  SILTY CLAY—gray— medium dense to dense (A−4)											
Station 276-82 Offset 25.4' Right Ground Surface Elev. 632.4 (ft) /6" (tef) (%) First Encounter Upon Completion After Hrs. 24 (ft) /6" (tef) (%) After Hrs. 25.4' Right (%) After Hrs.		P	0	Š	1	Groundwater Elevation:		P	0		1
Cround Surface Elev.   G32.4   (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%) (%)   After   Hrs.   \( \subseteq \) (ft) (/e*) (tsf) (%) (%) (**) (**) (**) (**) (**) (**)	Station 276+82			Qu		First Encounter 624.4				Qu	T
SAND-gray- medium stiff (A-6) Wet  SAND-gray- medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND-gray-  SAND-gray-  SAND-gray-  SAND-gray-  SAND-gray-  SAND-gray-  SAND & GRAVEL-gray-  medium dense (A-1)  SILTY LOAM-gray-  medium dense to dense (A-2)  III  III  III  III  III  III  III		(#)	(/e")	(+of)	(%)	The control of the co		(#1	/e"\	(+of)	19
SAND-gray- loose to medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND & GRAVEL-gray- medium dense (A-1)  SAND & GRAVEL-gray- medium dense (A-1)  SAND & GRAVEL-gray- medium dense (A-1)  SILTY LOAM-gray- medium dense (A-4)  SILTY LOAM-gray- medium dense (A-4)  SILTY CLAY-gray- medium stiff (A-6) Wet  7  99  -70  11  -75  20  NP  21  SILTY LOAM-gray- medium dense (A-4)  SILTY CLAY-gray- medium stiff (A-6) Wet  7  99  -70  11  -71  17  -70  17  -70  -71  -71	Ground Surface Elev. 632.4	100	/ 4	((31)	(~)	After Hrs		CO	/* 1	(tai)	(~)
SAND-gray- loose to medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND & GRAVEL-gray- medium dense (A-1)  SAND & GRAVEL-gray- medium dense (A-1)  SAND & GRAVEL-gray- medium dense (A-1)  SILTY LOAM-gray- medium dense (A-4)  SILTY LOAM-gray- medium dense (A-4)  SILTY CLAY-gray- medium stiff (A-6) Wet  7  99  -70  11  -75  20  NP  21  SILTY LOAM-gray- medium dense (A-4)  SILTY CLAY-gray- medium stiff (A-6) Wet  7  99  -70  11  -71  17  -70  17  -70  -71  -71		_				SII TV CLAV aray		$\dashv$			
SAND-gray- loose to medium dense (A-3)  SAND-gray- loose to medium dense (A-3)  SAND-gray-dense (A-3)  SAND-gray-d			Ц					コ			L
SAND-gray-loose to medium dense (A-3)  SAND-gray-dense (A-3)  -45 5 NP 23  -45 5 NP 23  -56 4 NP 20  SAND & GRAVEL-gray-medium dense (A-1)  -50 6 NP 20  SAND & GRAVEL-gray-medium dense (A-1)  -70 11 NP 19  -70 11 NP 21  -71 1575 20 NP 21  SILTY CLAY-gray-medium stiff (A-6) Wet  -7 99  -7 99  -7 -60 10 0.68 26  -60 21 NP 20		-					570.4	1			
SAND-gray-loose to medium dense (A-3)  SAND-gray-dense (A-3)  -45 5 NP 23  -45 5 NP 23  -56 4 NP 20  SAND & GRAVEL-gray-medium dense (A-1)  -50 6 NP 20  SAND & GRAVEL-gray-medium dense (A-1)  -70 11 NP 19  -70 11 NP 21  -71 1575 20 NP 21  SILTY CLAY-gray-medium stiff (A-6) Wet  -7 99  -7 99  -7 -60 10 0.68 26  -60 21 NP 20		_						$\exists$			H
SAND-gray-loose to medium dense (A-3)  SAND-gray-dense (A-3)  -45 5 NP 23  -45 5 NP 23  -56 4 NP 20  SAND & GRAVEL-gray-medium dense (A-1)  -50 6 NP 20  SAND & GRAVEL-gray-medium dense (A-1)  -70 11 NP 19  -70 11 NP 21  -71 1575 20 NP 21  SILTY CLAY-gray-medium stiff (A-6) Wet  -7 99  -7 99  -7 -60 10 0.68 26  -60 21 NP 20		_						コ			
SAND—gray—		-	4		_	SAND-grav-dense (A-3)		-			⊢
SAND gray— loose to medium dense (A-3)				NP	23	<b>3, (,</b>		-65		NP	18
3			Ĭ	7,1				Ĭ		.,,	Ĭ
Sillty CLAy-gray- medium stiff (A-6) Wet	loose to medium dense (A-3)	_						-			
Sillty CLAy-gray- medium stiff (A-6) Wet		_	$\dashv$				565.4	<i>,</i> $\dashv$	$\dashv$		$\vdash$
Sillty CLAy-gray-medium stiff (A-6) Wet  -50 6 NP 20 -50 6 NP 24 -50 6 NP 24 -50 6 NP 24 -50 6 NP 24 -50 7 89 -50 10 0.68 26 -50 6 NP 20 -70 11 NP 19		_									L
Sillty CLAy-gray-medium stiff (A-6) Wet  -50 6 NP 20 -50 6 NP 24 -50 6 NP 24 -50 6 NP 24 -50 6 NP 24 -50 7 89 -50 10 0.68 26 -50 6 NP 20 -70 11 NP 19		_						-			
		_	3					⊢	11		
560.4  560.4  560.4  550.4  SiLTY CLAY-gray-medium stiff (A-6) Wet  7 -60 10 0.68 26  -70 11 NP 19 -70 11 NP		_	$\overline{}$					コ	9		Г
SiLTY CLAY-gray- medium stiff (A-6) Wet  7 -60 10 0.68 26  -5 9 NP 24 SILTY LOAM-gray- medium dense to dense (A-4)		50	6	NP	20	medium dense (A-1)		-70	11	NP	19
SiLTY CLAY-gray- medium stiff (A-6) Wet  7 -60 10 0.68 26  -5 9 NP 24 SILTY LOAM-gray- medium dense to dense (A-4)		_						⊢			
SiLTY CLAY-gray- medium stiff (A-6) Wet  7 -60 10 0.68 26  -5 9 NP 24 SILTY LOAM-gray- medium dense to dense (A-4)		_	$\Box$					$\neg$	Ц		ᆫ
SiLTY CLAY-gray-medium stiff (A-6) Wet 7 -60 10 0.68 26 -50 9 NP 24 SILTY LOAM-gray-medium stiff (A-6) Wet 18 -7 -60 10 0.68 26 -50 21 NP 20							560.4	į.			
SiLTY CLAY-gray-medium stiff (A-6) Wet 7 -60 10 0.68 26 -50 9 NP 24 SILTY LOAM-gray-medium stiff (A-6) Wet 18 -7 -60 10 0.68 26 -50 21 NP 20		_	$\dashv$						$\vdash$		$\vdash$
SiLTY CLAY-gray-medium stiff (A-6) Wet 7 -60 10 0.68 26 -50 9 NP 24 SILTY LOAM-gray-medium stiff (A-6) Wet 18 -7 -60 10 0.68 26 -50 21 NP 20								$\neg$			
SILTY CLAY-gray- medium stiff (A-6) Wet			$\overline{}$					$\dashv$			$\vdash$
SILTY CLAY-gray- medium stiff (A-6) Wet  7 99		-55	-	NP	24	SILTY LOAM-gray-		-75	10000	NP	21
SILTY CLAY-gray- medium stiff (A-6) Wet  7 99 11 17 -60 10 0.68 26 -80 21 NP 20						medium dense to dense (A-	-4)				<u> </u>
SILTY CLAY-gray- medium stiff (A-6) Wet  7 99 11 17 -60 10 0.68 26 -80 21 NP 20								$\dashv$			
SILTY CLAY-gray- medium stiff (A-6) Wet  7 99 11 17 -60 10 0.68 26 -80 21 NP 20		575.4	$\dashv$					Ⅎ	$\dashv$		$\vdash$
medium stiff (A-6) Wet 7 98 11 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19			Ш					$\neg$	Щ		L
medium stiff (A-6) Wet 7 98 11 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	SILTY OLAY							$\dashv$			
		_	7		99				11		L
			7					$\Box$	17		
	The Unconfined Compressive Strength (UCS) Faile	-60	10	0.6B	26 3-But	ne. S-Shear. P-Penetrometer\ ST-Si	nelby Tube Sample				20 Test

						PAGE 3	_	of _4	1	_
Geo Services, Inc.	S	OII	L E	BOF	RING LOG	DATE _2/8-	9/20	12		_
Geo Services, Inc. Geotechnical, Erivironmental & Givil Engineering 805 Arpheris: Court, Salte 204 Naperville, Illingis 60565						LOGGED BY	DR			
(630) 355+2838						GSI JOB No.	_09	174		_
ROUTE FAP 353 (US 30) DES	CRIPT	ПОП	US F	Route	30 @ EJ&E/CN Railroad, ID	OT Job No. D-	-91-	046-	12	
SECTION 11-Y-A LOC	OITA	N_SE	C 20	& 2	29. T 35 N. R 15 E. 3rd P	M				_
COUNTY Cook DRII	LLING	MET	HOD _	Hollo	ow Stem Auger/Rotary HAMM	IER TYPE <u>CM</u> E	E Aut	oma	tic	_
STRUCT. NO	D	В	C	M	Surface Water Elev. $n/a$		D	В	U	м
Station	E	0 1 0	c	0	Stream Bed Elev. $n/a$		Ē	LO	Č S	0 -
BORING NO. <b>BS-02</b> Station 276+82	Т	₩ s	Qu	S	Groundwater Elevation: First Encounter <u>624.4</u>	_	T	w s	Qu	S
Offset 25.4' Right	н				Upon Completion $\frac{\partial Z}{n/a}$		н	-		
Ground Surface Elev. 632.4	(ft)	(/6")	(tsf)	(%)	After Hrs		(ft)	(/6")	(tsf)	(%)
	_						_			
	$\equiv$				CLAY-gray-very stiff (A-6)	)	$\exists$			
	_					530.4	t			
	_							$\dashv$	$\neg$	
						·	L			
SILTY LOAM-gray-	_	7		-		9	-	32	$\dashv$	137
medium dense to dense (A-4)	-85	13	NP	26			-105		1.9B	9
	-						-			
	$\equiv$				SANDY CLAY LOAM with Gre	avel-gray-	$\exists$			
	_				very dense (A-2)		_			
	_						_	$\dashv$	$\dashv$	
	$\Box$									
	_	12		Н			-	32 50/5	-	
	-90		NP	22			-110	30,5	NP	10
	_						-			
540.4	1					,	-			
	_							$\Box$	$\neg$	
	1			1012			ī			
	-	5 9		101			$\dashv$	50/3	-	Н
	-95	11	2.0B	25			-115	Ш	NP	14
CLAY-gray-very stiff (A-6)	_					516.4	, =			
	$\equiv$				Drillers Observation: Appare			Ш		
	_				Dimera Observation. Appare	515.4	t	$\perp$		
	_			$\vdash$	Silurian System, Niagaran S RUN 1 (-117.0' to -127.0')	eries Dolomite	. –			
	_						=	,	RUN 1	
	-	6 10		112	bedding becoming light gra	y mottled	$\dashv$			
	_100		2 40	1.0	gray & slightly porous @ -		_120			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Yane Shear Te
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist
NB-NA-Penetry

	V3 Companies of Hillnois Ltd.
<b>/</b> >	7325 Janes Avenue
	Woodridge, IL 60517
	630.724.9200 phone
\ <b>\ \</b>	630.724.9202 fax
	www.v3co.com

USER NAME =	DESIGNED - EVS	REVISED
	CHECKED - WJV	REVISED
PLOT SCALE =	DRAWN - EVS	REVISED
PLOT DATE =	CHECKED - WJV	REVISED

SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 016-1279	353	11-Y-A	соок	354	239
31NUCTURE NO. 010-12/3			CONTRACT	NO.	60R19
SHEET NO. 19 OF 35 SHEETS		ILLINOIS FED. A	D PROJECT		