February 25, 2008

SUBJECT: FAP Route 332

Project ACHSIP-0332 (089)

Section 2007-044I Cook & Will Counties Contract No. 60D34

Item No. 92, March 7, 2008 Letting

Addendum A

#### NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

- 1. Revised pages 1 & 2 of the Schedule of Prices.
- Revised page ii of the Table of Contents to the Special Provisions.
- Revised page 12 of the Special Provisions.
- 4. Added pages 57 92 to the Special Provisions.
- 5. Revised sheets 2, 3 & 31 52 of the Plans.
- 6. Added sheet 52A to the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Eric E. Harm Interim Bureau Chief Bureau of Design and Environment

By: Ted B. Walschleger, P. E.

Tete Jalucklyon P.E.

**Engineer of Project Management** 

cc: Diane O'Keefe, Region 1, District 1; Roger Driskell; Estimates

TBW:MS:jc

## ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 60D34

State Job # - C-91-006-08

PPS NBR - 1-77710-0000

COUNTY Name - COOK- WILL-

County Name - COOK- WILL-Code - 31 - 197 -

 Code 31 - 197 

 District 1 - 1 

 Section Number 2007-044I

Project Number	Route
ACHSIP-0332/089/	FAP 332

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
* XX006937	GROUND ROD 5/8 X 10	EACH	15.000				
X0322256	TEMP INFO SIGNING	SQ FT	159.000				
X0323574	MAINTAIN LIGHTING SYS	CAL MO	6.000				
X0325589	HT CBL MEDIAN BARRIER	FOOT	58,650.000				
X0325590	HT CBL MED BAR TERM	EACH	40.000				
X0325606	HT CBL MED BAR DEMO	EACH	1.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
* X8160395	UD 3#2 #4G EPRRHW1.5	FOOT	42,849.000				
X8170100	EC C REMOV CONDUCTORS	FOOT	1,020.000				
X8250080	LTG CONTR RC D CON TY	EACH	5.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
25000750	MOWING	ACRE	14.000				
63000000	SPBGR TY A	FOOT	38.000				
63100045	TRAF BAR TERM T2	EACH	3.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	16.000				
		* REVI	SED : FEBRUARY 14, 2008				

# ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 60D34

State Job # - C-91-006-08
PPS NBR - 1-77710-0000
County Name - COOK- WILL-

Code - 31 - 197 - District - 1 - 1 - Section Number - 2007-044I

Project Number Route
ACHSIP-0332/089/ FAP 332

ltem Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
63200310	GUARDRAIL REMOV	FOOT	875.000				
64200105	SHOULDER RUMBLE STRIP	FOOT	45,100.000				
67000400	ENGR FIELD OFFICE A	CAL MO	6.000				
67100100	MOBILIZATION	L SUM	1.000				
80400100	ELECT SERV INSTALL	EACH	5.000				
80400200	ELECT UTIL SERV CONN	L SUM	1.000		15,000.000		15,000.000
81000800	CON T 3 GALVS	FOOT	1,320.000				
81018700	CON P 3 GALVS	FOOT	490.000				
81701385	EC C EPR USE 3-1C 350	FOOT	525.000				
* 81900200	TR & BKFIL F ELECT WK	FOOT	43,339.000				
* 82102310	LUM SV HOR MT 310W	EACH	162.000				
* 82102400	LUM SV HOR MT 400W	EACH	27.000				
* 83050810	LT P A 47.5MH 15MA	EACH	189.000				
* 83600400	POLE FOUNDATION METAL	EACH	189.000				
* 83800205	BKWY DEV TR B 15BC	EACH	189.000				
		* REVI	SED : FEBRUARY 14, 2008				

·	
REINFORCEMENT BARS (BDE)	47
SELF-CONSOLIDATING CONCRETE FOR CAST-IN-PLACE CONSTRUCTION (BDE	≣)48
STEEL PLATE BEAM GUARDRAIL (BDE)	52
SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)	52
STEEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)	53
SOIL BORINGS	57

Revised 2/25/08

The Contractor should make particular note of the need for the earliest attention to arrangements with ComEd for service. In the event of delay by ComEd, no extension of time will be considered applicable for the delay unless the Contractor can produce written evidence of a request for electric service within 30 days of execution.

<u>Method Of Payment.</u> The Contractor will be reimbursed to the exact amount of money as billed by ComEd for its services. Work provided by the Contractor for electric service will be paid separately as described under ELECTRIC SERVICE INSTALLATION. No extra compensation shall be paid to the Contractor for any incidental materials and labor required to fulfill the requirements as shown on the plans and specified herein.

For bidding purposes, this item shall be estimated as \$15,000.00.

<u>Basis Of Payment.</u> This work will be paid for at the contract lump sum price for **ELECTRIC UTILITY SERVICE CONNECTION** which shall be reimbursement in full for electric utility service charges.

<u>Designers Note</u>: The estimate of cost of service connections for bidding purposes shall be provided by Bureau of Electrical Operations.

#### **GROUND ROD**

Effective: January 1, 2007

<u>Description.</u> This item shall consist of furnishing, installing and connecting ground rods for the grounding of service neutral conductors and for supplementing the equipment grounding system via connection at poles or other equipment throughout the system. All materials and work shall be in accordance with Article 250 of the NEC.

Materials. Materials shall be according to the following Articles of Section 1000 - Materials

	Item	Article/Section
(a)	Grounding Electrodes	1087.01(b)
(b)	Grounding Electrode Conductors	.1087.01(a)
(c)	Access Well	1087.01(c)

#### **CONSTRUCTION REQUIREMENTS**

<u>General.</u> All connections to ground rods, structural steel or fencing shall be made with exothermic welds. Where such connections are made to insulated conductors, the connection shall be wrapped with at least 4 layers of electrical tape extended 152.4 mm (six inches) onto the conductor insulation.

Ground rods shall be driven so that the tops of the rod are 609.6 mm (24 inches) below finished grade. Where indicated, ground wells shall be included to permit access to the rod connections.

Where indicated, ground rods shall be installed through concrete foundations.

Revised 02/25/2008

### SOII

IL E	ORINGS												U	опи	acı r	40: D
1 L	Wang Engineering, INC, Consuling Generalized and Vangengs@wangeng.com 145 Main Sireet pimpard, IL-60148 elephone: 630 953-9928 ax: 630 953-9938	Client Project Locatio			lilinoi AP 33	WE s De l2 IL	l Jol partr 394,	No nen I-BO	t of Tra to God	i B-01 12-07 Insportation Insportation Includes the second	Dalum: N Elevation North: 17 East: 117 Station: 1 Offset; 5	726. 2224 8166 990+	64 f 7.21 .75 f	ft	Page	1 ol 1
Profile	SOIL AND ROCK	Depth (B)	Sample Type	Sample No.	SPT Vatues (blvvf5 in)	<b>3</b>	Moisture Content (%)	Profile	Elevation (ff)	SOIL AND ROC DESCRIPTION		Sample Type	Sample No.	SPT Values (blw/6 in)	(E)	Moisture Cartent (%)
	4-inch thick, black LOAM 720.3 —TOPS Stiff to hard, black, brown ar gray CLAY			1	3: 4. 4. 5.	1,31 B	20		Bor	ing terminated at 10.0	).ft					
	723.1 Stiff to very stiff, brown and ( CLAY	jray		2	2 5 10 9	7.79 B	19									
		6_		3	2 6 7	1.80 B	16		: : : : : : : : : : : : : : : : : : : :		15				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
				4	3 6 8	2.21 B	20									
	18.5	10		5	3 6 9 11	3.12 B.	22				20				1 - 7	
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Drilli Drilli	n Drilling 01-09-2008 ing Contractor GBE ing G&R Logger		nle	Di <b>ķ</b>	rill Rig	Died cked i	rich by N	D-50 I, Da	evis.	While Drilling At Completion of Drilling Time After Drilling	¥ NA NA	4	DF		 	

Drilling Method 2.25" ID HSA; Boring Backfilled Upon Completion .....

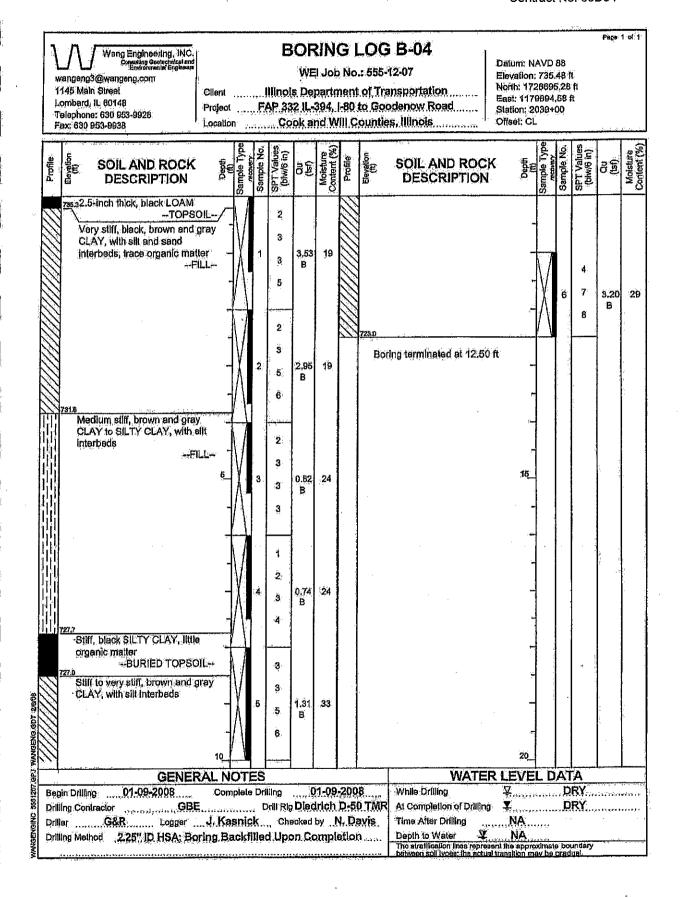
Depth to Water Y.
The stratification lines represented between soil types: the actual

NA

Page 1 of 1

Lombard, IL 60148 Telephone: 630 953-9928	Cilent Project .ocation	Illinol FAP 33	WEI s Dep 32 JL-3	Job ertm 194, l	No. ient	OG B-02  . 555-12-07  of Transportation  to Goodenow Road  ounties, Illinois	Elevation North:	NAVD ( pn: 749, 1724537 178665, 2014+( 2 RT	70 ft 7.84 ft 32 ft 00		
SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No. SPT Values (blw/6 in)	(ts)	Moisture Confent (%)	Profile	SOIL AND DESCRIP	ROCK TION	(f) Sample Type	Sample No.	(bhw/6 in)	Moisture Content (%)
749,43-inch thick, black LOAM —TOPSOI  Very soft, black and brown CLAY, little organic matter —FIL  Stiff to very stiff, black, brown		0 0 1 4	0.16 B	33		Boring terminated a	it 10:00 ft	1	and the second s	A CONTRACTOR OF THE PERSONS ASSESSMENTS AS	
and gray CLAYFiL	-  -	3								-	
		2 7 10	2.54 B	20		·		-		-	
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	-	7 11 5 18 22	4.43 B	15				20			
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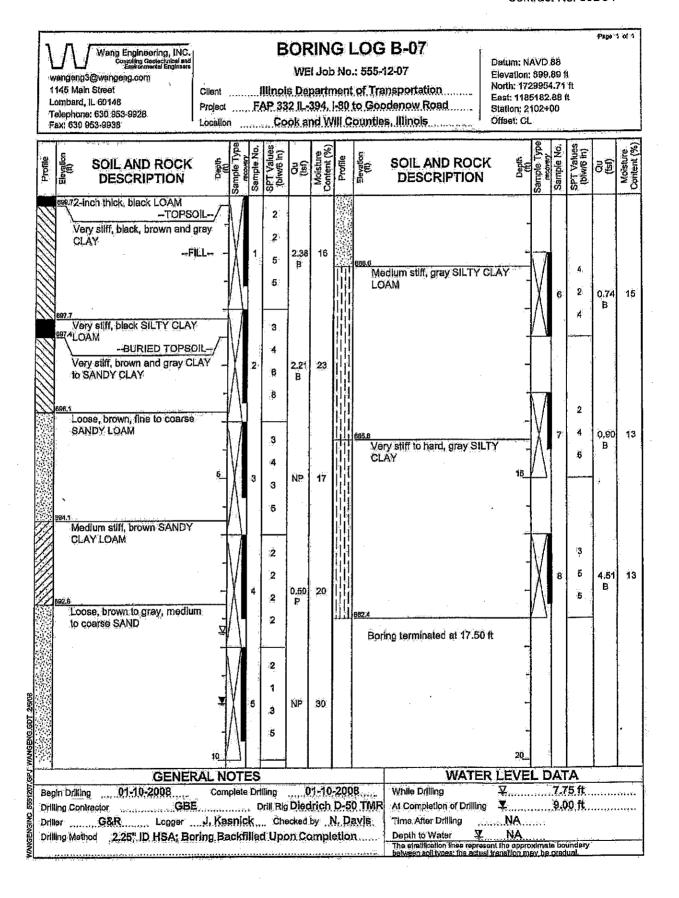
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Wang Engineering, IVC.								Datum: NAVD 88	
wangeng3@wangeng.com								Elevation: 753,89 ft North: 1724768.30 ft	
Lombard, IL 60148 Project		HIMD!	s yer 2 IL-S	281411 394. l	-80 Iaili	to Goo	denow Road	East: 1178762.98 ft.	
Telephone: 630 963-9928	*							Offset: 2 RT	
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CLAY, with silt and sand interbeds	W.	5							
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748.1 Very stiff to hard, brown and	<b> </b>	`` ;				}			
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Page 1 of 1

Wang Engineering, INC Consiling Geolechies as Engineering Contention of the Contenti	Client Project	FAF	Wi nole De 332 IL	El Joi partr 394,	o No nent 1-80	Detum: NAVD 88 Elevation; 699.39 ft North: 1729844.19 ft East: 1184907.71 ft Station: 2099+00 Offset: CL
SOIL AND ROCI		Sample No.	(blw/6 in) Qu (lef)	Moisture Content (%)	Profile	Profile  Beginn Sample Type (follows in)  Call (fat)
Soft to stiff, black, brown a gray CLAY, with allt and a interbeds	SOIL/	1	3 4 5 1.72 8	17		Boring terminated at 10,00 ft
ess.e Medium dense, brown, me	-	2	3 4 0,33 4 B	19		
SAND  Sand  Siff, brown SANDY CLAY	6	3	2 5 NP	18		15_
991.8 Hard, brown and gray CLA	- - -	4	4 4 5 1.31 6	20	,	
WAVEENG EDGE ZERGE	- 10	5 1	5.99 B	18		20_
GENE  Begin Drilling 01-10-2008  Drilling Contractor GER  Drilling Method 2.25" ID HSA: E	3E J. Kasnic	Drillin Drilli	Rig <b>Die</b> Checked	drich by J	D-5( N. Da	Davis Time After Drilling NA DRY



Pane 1 of 1

**BORING LOG B-08** Wang Engineering, INC Copuling Gaulectuled and Dalum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 700.99 ft wangeng3@wangeng.com North: 1730641.62 ft 1145 Main Street Client Illinois Department of Transportation East: 1186849.33 ft Lombard, IL 6014B Project FAP 332 IL-394, I-80 to Goodenow Road Station; 2120+00 Telephone: 630 953-9928 Location Cook and Will Counties, Illinois Offset: 1.5 RT Fax: 630 953-9938 SPT Valu (blw/6 in **SOIL AND ROCK** SOIL AND ROCK DESCRIPTION DESCRIPTION zee.s2-inch thick, black LOAM Boring terminated at 10.00 ft -TOPSOIL Stiff to very stiff, black, brown and gray CLAY, with sand lenses 2,21 20 23 1.48 24 В 2 Soft, black, brown and gray CLAY, little organic matter 28 0,33 Stiff, black, brown and gray CLAY, trace organic matter 1.64 35 В WATER LEVEL DATA **GENERAL NOTES** 01-10-2008 Complete Drilling **▼** DRY Begin Drilling 01-10-2008 While Drilling Drilling Contractor GBE Drill Rig Diedrich D-50 TWR At Completion of Drilling MARLEN NA Driller G&R Logger J. Kasnick Checked by N. Davis Time After Drilling Depth to Water Dilling Method 2,25" ID HSA; Boring Backfilled Upon Completion

1145 Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9636	1	• • • • •		AP 33	2 IL-	394,	-80	to Goodenow Road	East: 1187 Station: 21	312.47 25+00	
SOIL AND ROCI	( tag	Sample Type	Sample No.	SPT Values (blw/6 in)	36	Moisture Content (%)	Profile	SOIL AND ROCK DESCRIPTION	Dept.	Sample Type recovery Sample No.	SPT Values (blw/6 in)
		1		2				Boring terminated at 10.00			
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	FILL	1 1	1	3		19			-		
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Lornbard, It. 80146 Telephone: 630 853-9928 Fax: 630 853-9938  Project Location  Cook and Will Counties, Illinois  Soil AND ROCK DESCRIPTION  Station: 2125+00 Offset: 3 RT  Soil AND ROCK DESCRIPTION  DESCRIPTION  Station: 2125+00 Offset: 3 RT  DESCRIPTION  DESCRIPTION  Station: 2125+00 Offset: 3 RT  DESCRIPTION  Boring terminated at 10.00 ft  Stiff, black, brown and gray CLAY, with silt interbeds											
gray CLAY	· · · · · · · · · · · · · · · · · · ·	V	,		4.84	19					
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Begin Drilling 01-10-2008	Con	nplel	le Di	illing Day of		01-10 442-	201-(י		¥ <b>⊻</b>	] 	JRY JRY

Wang Engineering, INC Consulting Geological and Environment Flagraces wangeing3@wangeing.com  1145 Mein Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938  Cilent Illinois Department of Transportation Project FAP 332 IL-394, I-80 to Goodenow Road Location Cook and Will Counties, Illinois  Datum: NAVD 88 Elevation: 698.46 ft North: 1737566:05 ft East: 1191712.52 ft Station: 2214+00 Offset: 7 RT												
Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (fit) Sample Type	Sample No.	(sf)	Moisture Content (%)	Profile	Elevation (ff)	SOIL AND ROC DESCRIPTION		Sample No. SPT Values (blw/6 in)	9 E	Moisture Content (%)
S	-inch thick, black LOAM TOPS liff to very stiff, black, brow nd gray CLAY to SILTY Cl ace organic matter F	vn -\/	3 4 6		26		Bor	ing terminated et 10.00	Off			
11 894.7 11 Si	off, black, brown and gray	- \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3. 4 2 5	1,23 B	22							
CI Or I I E9330	AY to SILTY CLAY, trace ganic matter Iff, black and gray SILTY: AY, trace organic matter		3 3	.0,25 P	29	<b>b</b>			16			
	iff to very stiff, brown and .AY	gray	3 4 5 6	1.97 B	25							
G88.5		- 10	3 4 5 6 8	2.05 B	23		- P. C.	·	20_			
		RAL NOT				نندي <u>ا</u> نيبت			R LEVEL I			····
Drilling Co	ing 01-10-2008 ntractor GBI G&R Logger thod 2.25" ID HSA; Bo	J. Kasnid Oring Backi	, Dall F ck, , C filled U	avis.	While Drilling At Completion of Drilling Time After Drilling Depth to Water The strailfication lines repre-	NA	DRY DRY	edyt alde Talefores	(8.4.9.9.8.9 (4.4.9.8.9			

**BORING LOG B-11** Wang Engineering, INC Dalum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 700.25 ft wangeng3@wangeng.com North: 1738016.15 ft 1145 Main Street Client Illinois Department of Transportation East: 1191704.83 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station: 2218+50 Telephone: 630 953-9928 Offset: 6 RT Cook and Will Countles, Illinois Fax: 630 953-9938 Elevation (ft) SPT Valu (blw/6 ir SOIL AND ROCK SOIL AND ROCK 3 5 DESCRIPTION DESCRIPTION 20012-inch thick, black LOAM Boring terminated at 10.00 ft -- TOPSOIL 2 Very stiff to hard, black, brown and gray CLAY 21 4.35 5 2 2.05 24 3 Stiff, black, brown and gray SILTY CLAY, trace organic matter 1.97 22 5 3 Stiff, brown and gray CLAY 1.56 26 5 Very soft, brown and gray CLAY Very stiff, brown and gray SILTY 3.85 18 В **GENERAL NOTES** WATER LEVEL DATA DRY Begin Drilling 01-10-2008 Complete Drilling 01-10-2008 While Dilling Drilling Contractor GBE Drill Rig Dledrich D-50 TMR At Completion of Drilling DRY Driller G&R Logger J. Kasnick Checked by N. Davis Time After Drilling NA Drilling Method 2.25" ID HSA; Boring Backfilled Upon Completion Depth to Water The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering, INC. Consuling Geosethnical and Environmental Engineering Wangeng3@wangeng.com 1145 Main Street Lombard, IL 60148 Telephone; 630.953-9928 Fax: 630.953-9938  Citient Project Locatio	BORING LOG B-12  WEI Job No.: 555-12-07  Illinois Department of Transportation FAP 332 IL-394, I-80 to Goodenow Road  Cook and Will Counties, Illinois  Cook and Will Counties of RT	Page 1 of 1
SOIL AND ROCK DESCRIPTION	Sample Type Sample No. Sample No. Sample No. Sample No. Spt Values Confort (%) Profile Elevation Depth Depth Sample No. Sample Type Recovery Sample No. Spt Values Confort Spt	Cou (tsf) Moisture Content (%)
708-22-inch thick, black LOAMTOPSOIL Medium stiff, black, brown and pray CLAYFILL Hard, brown and gray CLAYFILL	1 Boring terminated at 10,00 ft 3 4,51 19 6	
Stiff, brown and gray CLAY, with sand interbeds, trace organic matter	4 4 6 1.15 20 7	
Very stiff to hard, brown and gray CLAY	3 3 4 3.44 20 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	4 8 4.92 20 B	
	3 7 9 3.28 20 B 20 20 20	
GENERAL N  Begin Drilling 01-10-2008 Con  Drilling Contractor GBE  Driller G&R Logger J. Ka  Drilling Method 2.25" JD HSA; Boring B	blete Drilling 01-10-2008 While Drilling V DRY Drill Rig Diedrich D-50 TMR At Completion of Drilling V DRY Time After Drilling NA Depth to Water V NA The stratification lines represent the approximate boundary	Company of the Compan

{ }

Page 1 of 1 **BORING LOG B-13** Wang Engineering, INC Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 708.18 ft wangeng3@wangeng.com North: 1740967.81 ft 1145 Main Street Client Illinois Department of Transportation East: 1191646.98 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station; 2248+00 Telephone: 630 963 9928 Fax: 630 953 9938 Offset: 8 LT Cook and Will Counties, Illinois Moisture Content (%) **SOIL AND ROCK SOIL AND ROCK** 용된 DESCRIPTION DESCRIPTION 707.93-inch thick, black LOAM Boring terminated at 10,00 ft -TOPSOIL Very slift, black, brown and gray 3 CLAY, with sand lens 21 3.20 B Very stiff, black SILTY CLAY, little organic matter -BURIED TOPSOIL-Stiff, brown and gray CLAY 21 В Medium dense, brown and gray 5 NP 22 3 Very stiff, brown CLAY 20 3.28 2.05 21 В 10 WATER LEVEL DATA **GENERAL NOTES** Σ..... 5.30 ft Begin Drilling 01-10-2008 Complete Drilling 01-10-2008 While Drilling Drilling Contractor GBE Drill Rig Diedrich D-50 TMR DRY At Completion of Drilling Time After Dilling NA... Depth to Water Y NA Drilling Method 225" ID HSA; Boring Backfilled Upon Completion The stratification lines represent the approximate bound between soil types; the actual transition may be oraqual

	1 5	6.5	·	ΔE	MAI	(C)	O C	B-14	-,			Page	1 0/1
Wang Engineering, INC. Conguling Geoleta-hict and Environment Engineers wangengs@wangerig.com							.: 555-		Datum: I				
1145 Main Street	Client		Illinoi	s De	partn	nent	of Tre	nsportation	North: 1' East: 11				
rejeptione: 030 903-9926								odenow Road s, Illinois	Stailon: Offset: 6	2291+0			
Fax: 630 953-9938	Location	***		ok ą	ių v	111.15	ounte	S/,10000S,	Oliser o	1-1			
SOIL AND ROCK DESCRIPTION	Depth (ff)	Sample Type recovery	SPT Values (blw/6 in)	الع) ( <del>الع</del> )	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type recovery	Sample No. SPT Values (blw/6 in)	<b>8</b>	Moisture Content (%)
72271,5-Inch thick, black LOAM TOPSO	L/		2				Bo	ing terminated at 10.0	Ö ft				
Stiff to very stiff, black, brown and gray CLAY to SILTY CLA	v 1	$\bigvee$	3							1		:	- 1
trace organic matter	` -	I	1. 4	1.80 B	21					1			
721.4	1277		5							.			
Hard, brown and gray CLAY, with silt and send interbeds	1												
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7129	10	4							20	-			
GENER.									R LEVI	EL D		41 pr. 194	
Begin Drilling 01-10-2008 Drilling Contractor GBE	Comp		Orilling Orill Rig					While Drilling At Completion of Drillin	¥ a	edele ret	DRY DRY	والوائد ماله بها الأدواع	
Driller G&R Logger	J. Kas	nick	Chi	cked	by 1	i, Di	avis.	Time After Drilling	NA.	ikai nandit Kastoria napaga	· 4.67264.5744	1,42,1,442	· 4 \$ . \$ \$ . \$ \$
									NA sent the app ial transition	roximate	bounden	F"	
	Constitution of the Consti								ial transition.	nav be c	redual.		

Wang Engineering INC.	!	E	3OR	IŃC	a LO	G B-15		<del> </del>		Paga 1 of	
Wang Engineering, INC. Consiling Geolacinical and Environmental Engineering Wangeng3@wangeng.com 1145 Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9936	Client Project Location	Illino FAP.3;	WE Is Dep 32 IL-3	Job artm 194, I-	No.: 55 ent of T 80 to G		Datum: N Elevation: North: 17- East: 119 Station: 2 Offset: 6 I	: 717,36 ( 48365,11 1543,65 ( 302+00	Ħ	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No. SPT Values (blw/6 in)	39	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type recovery Sample No.	SPT Vafues (blw/6.in)	Ou (Ef) Moisture	
715.5 Stiff to very stiff, black, brow and gray CLAY, with lenses black SILTY CLAY, trace	ILL	3 4 1 5 8		21	В	oring terminated at 10.0	Ö.İt				
organic matter	-1	3 4 2 5	3.69 B	22	a company	•					
Stiff, black, brown and gray CLAY, trace organic matter	5.	3 5 5	2.71 B	20			15		The second secon	Plantin and the state of the st	
Stiff to hard, brown and gray CLAY	-	3 4 5 7	1.48 £ -B	26							
7074	10		5.82 1 B	В	The state of the s		20				
	AL NOTE				<del>                                     </del>	WATER LEVEL DATA					
Begin Drilling 01-10-2008  Drilling Contractor GBE  Drilling Contractor Logger  Drilling Method 2.25" ID HSA; Bori	J. Kasnick	Drill Rig I Chec	Diedric ked by	N, I	50 TMR Davis	While Drilling At Completion of Drilling	▼ NA NA	DR DR	Y Y	**************************************	

Pinge 1 of 1 **BORING LOG B-16** Wang Engineering, INC. Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation; 701.13 ft North: 1749590.67 ft 1145 Main Street Client Illinois Department of Transportation East: 1191483.22 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Stallon: 2334+25 Telephone: 630 953-9928 Location Cook and Will Counties, Illinois Offset: 6 RT Fax: 630 953-9938 **SOIL AND ROCK** SOIL AND ROCK DESCRIPTION DESCRIPTION 700.93-inch thick, black LOAM Boring terminated at 10.00 ft --TOPSOIL Stiff, black, brown and gray CLAY, little gravel 1.89 23 Very stiff, black SILTY CLAY, little organic matter -BURIED TOPSOIL-3 Hard, brown and gray CLAY, with sand interbeds 5,74 19 8,36 17 10 21 8.61 17 18 5 10 NP 20 Medium dense, brown and gray 16 **GENERAL NOTES** WATER LEVEL DATA Begin Orllling 01-10-2008 ∇ DRY Complete Drilling 01-10-2008 While Drilling Drilling Contractor GBE Drill Rig Diedrich D-50 TMR At Completion of Drilling Driller G&R Logger J. Kasnick Checked by N. Davis Time After Drilling .....NA Drilling Method 2,25" ID HSA; Boring Backfilled Upon Completion .... Depth to Water

		<del>25,</del>	<del></del>						******		Page 1	of T		
Wang Engineering, INC. Consisting Gestechnical and Environmental Engineers		B	OR	IN(	3 l	_OG	B-17	Datum: NA	MAIN GO					
			WE	Job	Nô	: 555-1	2-07	Elevation:	4 5 5 4 5	<b>)</b> .		5		
wangeng3@wangeng.com 1145 Main Street Client		Illinoi	s Der	artn	ient	of Tran	rsportation	North: 175	., ., ., .			- 1		
Lombard, IL 50148 Project							denow Road	East: 1191 Station: 23		ı				
Telephone: 630 953-9928 Fex: 630 953-9938 Locati							, Illinois	Offset: 9.5	LT					
	10 T	. ] 6	T					1000	2 7	v)		ੂ		
를 를 SOIL AND ROCK 등	Sample Type	SPT Values (blw/6 in)	- 10	# (%	<b>a</b>	Egon (	SOIL AND ROC	K €∈	Sample Typ recovery Sample No	SPT Values (blw/6 in)	<b>3</b> 5	Moisture Content (%)		
SOIL AND ROCK E DESCRIPTION	Tiple T	\     \   \   \   \   \   \   \   \ 	93	Moisture Content (%	Profile	Elevation (ft)	DESCRIPTION		mple T recovery ample N	PT	ပ္	Mor		
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oss.i2,5-inch thick, black LOAM TOPSOIL/	-( /	2	H			Bori	ng terminated at 10.0	O fit				1		
Stiff, black, brown and gray	-\/							•		:				
CLAY, with sand interbed	. ₩.	2	2.00	23				<u></u>			•			
GOZ.1	<b>]</b>	4	1.39 B	20	i.			į						
Very sliff to hard, brown and gray CLAY, with sand and slit	-//\	8	i.		ŀ			-						
Interbeds	<b>//</b>													
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GENERAL 04 40 2008		7.	**	01.41	. <b>.</b>	08	While Drilling	ᄝ		DRY.		<del></del>		
Begin Drilling 01-10-2008 Ci Drilling Contractor : GBE	mplete (						ON DESTRUCTION OF SECURITION O							
	Driller G&R Logger J. Kasnick Checked by N. Davis								Time After DrillingNA					
Drilling Method 2.25" JD HSA; Borling	n	Depth to Water Y NA												
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.												

Page 1 of 1 **BORING LOG B-18** Wang Engineering, INC Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 666.82 fl wangeng3@wangeng.com 1145 Main Street North: 1755962,25 ft Client Illinois Department of Transportation East: 1191363.99 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station: 2398+00 Telephone: 630 953-9928 Fax: 630 953-9938 Location Cook and Will Counties, Illinois Offset: 10 LT SPT Values (biwi6 in) Qu SOIL AND ROCK **SOIL AND ROCK** DESCRIPTION DESCRIPTION 71.5-inch thick, black LOAM Boring terminated at 10.00 ft -- TOPSOIL Stiff, black and brown CLAY 3 Very stiff to hard, brown and 2.46 25 gray CLAY 5.90 18 В 15 18 8.45 8.53 18 5.99 19 В 17 **GENERAL NOTES** While Drilling Begin Drilling 01-11-2008 Complete Drilling 01-11-2008 Σ DRY Drilling Contractor GBE Drill Rig Diedrich D-50 TMR ▼ DRY At Completion of Drilling Driller G&R Logger J. Kasnick Checked by N. Davis NA..... Time After Drilling Depth to Water Drilling Method 2,25" ID HSA; Boring Backfilled Upon Completion

1145 M Lombar Telepho	Wang Engineering, INC, Consulting Section call and Section Call and Bay Section Call and Bay Section Call and Street Call III. 80148 une; 630 953-9928 0 953-9938	Cilent	: 555-12 of Tran	Datum: NAVD 88 Ejevation: 656.15 ft. North: 1757915.09 ft East; 1191341,67 ft Station: 2411+50 Offset: 7 LT									
Profile Elevation (ff)	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type recovery Sample No.	SPT Values (blw/6 in)	10 (ES)	Moisture Content (%)	Profile	Eevation (ff)	SOIL AND ROC DESCRIPTION	K tag	Sample lype recovery Sample No.	SPT Values (blw/6 in)	og (sj.	Moisture Content (%)
655.8	Finch thick, black LOAM FTOPS lard, brown and gray CLA	OIL-	3 6 11	5.74 B	19		Borir	g terminated at 10.00	Dft:				
			10 17 29	9.78 B	18		Carl Surface Control of the Control		, ,				
		5 1	,6 39 15 23	5:90 B	19				15				
			5 9 15	7,13 B	9				The state of the s				
		5	4 9 12 19	5.90 B	19		The state of the s		- - - - 20_				
Driller .	rilling 01-11-2008 Contractor GE	Complete D	Orilling Drill Ri Ch	ig Die recked	ı oy	1 D. N.,[	50 TMR Davis	While Orlling	ER LEVE	20124 1 A. F.	DRY DRY	23 - 22 - 22	

Page 1 of 1 **BORING LOG B-20** Wang Engineering, INC Dalum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 663,46 ft North: 1760313.64 ft 1145 Main Street Client Illinois Department of Transportation East: 1191284.89 ft Lomburd, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station: 2441+50 Telephone: 630 953-9928 Location Cook and Will Countles, Illinois Offset: 8 LT Fax: 630 953-9938 SPT Values (blw/6 in) SPT Value (bhw/6 in) **SOIL AND ROCK SOIL AND ROCK** DESCRIPTION **DESCRIPTION** 13,23-inch thick, black LOAM Boring terminated at 10,00 ft -- TOPSOIL 2 Very stiff, black and brown SILTY CLAY 28 3,50 Stiff to hard, black, brown and gray CLAY, with sand interbeds 3 21 1.56 5 ₿ 2,46 20 В 8 24 2,62 3.89 23 7 В 10 WATER LEVEL DATA **GENERAL NOTES** ▼ DRY While Drilling Begin Drilling 01-11-2008 Complete Drilling 01-11-2008 Drilling Contractor GBE Drill Rig Diedrich D-50 TMR **▼**.....DRY At Completion of Drilling Time After Drilling .....NA Driller ..... G&R Logger J. Kasnick Checked by N. Davis Depth to Water Drilling Method 2,25" ID HSA; Boring Backfilled Upon Completion

1145 Ma Lombard Telephor	Wang Engineering, INC.  Consuling Geolegandent and Employmental Engineers  Wangang3@wangeng.com  1145 Main Street  Lombard, IL 80148  Project  FAP 332 IL-394, J-80 to Goodenow.Road  Fax: 630 953-9938  Cook and Will Counties, Illinois  Datum: NAVD 88  Elevation: 650.92 ft  North: 1761962.14 ft  East: 1191258.09 ft  Station: 2458+00  Offset: 6.5 RT													
Profile Elevation (ff)	SOIL AND ROCK DESCRIPTION	Depth (ff) Sample Type	Sample No.	SPT Values (blw/6 in)	og (tel)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type	Sample No.	SPT Values (blw/6 in)	3
850,72,	5-inch thick, black LOAM TOPS			2				Bori	ng terminated at 10.00	D ft			,	
	lff to very stiff, black, brov id gray CLAY	vin ]		3		:					1			
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Begin Driji	no 01-11-2008	RAL NOT Complete	e Dri	lling		01-11	20	)8,,.	While Drilling	₹		<u>, , r</u>	PRY	<del>.</del>
Drilling Co	ntractor	E J, Kasni	. I	rili Rig	Dle	drich	D.	O TWR	At Completion of Drilling	ng ¥. NA		J.	PRY	·*. • •. • (
Driller Drilling Me	1 19 10 10 10 10 10 10 10 10 10 10 10 10 10	oring Back	vi fille	, yn d Dae	nn C	omni omni	etic	exis. O	Depth to Water 2					

Page 1 of 1 **BORING LOG B-22** Wang Engineering, INC Consulting Geolophical and Environmental Engineer Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 639.89 ft wangeng3@wangeng.com North: 1763463.05 ft Illinois Department of Transportation 1145 Main Street East: 1191235.91 ft Lombard, IL 60148 Project FAP 332 JL-394, I-80 to Goodenow Road Station: 2473+00 Telephone: 630 953-9928 Cook and Will Counties, Illinois Offset: 6 RT Fax: 630 953-9938 SPT Values (blw/6 in) **SOIL AND ROCK** Elevador (A) SOIL AND ROCK DESCRIPTION DESCRIPTION 639.72-inch thick, black LOAM Boring terminated at 10:00 ft --TOPSOIL-Soft, black, brown and gray 2 CLAY -FILL-0.33 28 2 ß Very stiff, black, brown and gray CLAY, with gravel --FILL--3 19 2.25 5 31 2.79 Stiff to very stiff, brown and gray CLAY, with sand and slit interpeds 2 1.97 24 5 R 3 22 1.72 5 В 5 WATER LEVEL DATA GENERAL NOTES ¥.....DRY Complete Drilling 01-11-2008 While Drilling Begin Drilling 01-11-2008 Drilling Confractor GBE Drill Rig Djedrich D-50 TMR At Completion of Drilling Time After Drilling ....NA Depth to Water Drilling Method 2.25" JD HSA; Boring Backfilled Upon Completion ..... The stralification lines represent the approximate to hetween soil types; the actual transition may be our

Page 1 of 1

**BORING LOG B-23** Wang Engineering, INC. Consuling Geotechnical and Engineering Engineering Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 640.21 ft wangeng3@wangeng.com North: 1763712.38 ft Client Illinois Department of Transportation 1145 Main Street East: 1191231.90 ft Project FAP 332 IL-394, I-80 to Goodenow Road Lombard, IL 80148 Station: 2475+50 Telephone: 630 953-9928 Location Cook and Will Counties, Illinois Offset: 7 RT Fax: 630 953-9938 Sample Typi recovery Sample No. SPT Values (blw/6 ln) SPT Values (blw/67in) (tst) Moisture Content (%) Profile **SOIL AND ROCK** Sample h 2 (E Profile SOIL AND ROCK DESCRIPTION DESCRIPTION 840.02-inch thick, black LOAM Boring terminated at 10,00 ft --TOPSOIL Stiff to very stiff, black, brown and gray CLAY 2.21 23 7 3 5 2.21 23 6 15 Medium dense, brown, fine to medium SAND with clay Interbeds 8: --FILL--11 ΝP 9 18 14 ΝP 12 Very stiff, black and gray, gravelly CLAY 17 -FILL Stiff, brown and gray CLAY with silt interbeds 2 Approximately 11 Inch thick ASPHALT over 18 inch thick 3 CONCRETE Obstruction at 7.5 1.07 26 bgs, Offset 7.75 ft East, 2.0 ft 3 North and Continued 3 WATER LEVEL DATA **GENERAL NOTES** ∇.....DRY Complete Drilling 01-11-2008 While Drilling Begin Drilling ..... 01-11-2008..... Drilling Contractor GBE, Drill Rig Diedrich D-50 TMR ¥.....DRY At Completion of Drilling NA.... Onlier G&R Logger J. Kasnick Checked by N. Davis Time After Drilling Depth to Water Y. NA

The strellication lines represent the approximate boundary between soil types: the actual transition may be gradual. Drilling Method 225" ID HSA; Boring Backfilled Upon Completion.....

Page 1 of 1

**BORING LOG B-24** Wang Englineering, INC. Consuling Geolechnical and Environmental Engineers Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 637.42 ft wangeng3@wangeng.com North: 1765315:36 ft Client Illinois Department of Transportation 1145 Main Street East: 1191207.93 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station: 2491+50 Telephone: 630 953-9928 Location Cook and Will Counties, Illinois Offset; 7 RT Fax: 630 953-9938 SPT Values (blw/6 in) SOIL AND ROCK Sample 1 Elevatio (ft) SOIL AND ROCK 98 DESCRIPTION DESCRIPTION 37,23-inch thick, black LOAM Boring terminated at 10.00 ft -TOPSOIL-Very stiff, black, brown and gray 20 --FILL--2.05 5 7 Medium stiff, black, brown and gray SILTY CLAY, with silt and sand interbeds 0.90 23 4 5 2 3 0.82 23 2 0.57 23 Soft to very stiff, black, brown and gray CLAY 4FILL-2 29 2.54 Utility Obstruction Encountered 9 В at 8.9 bgs, Offset 5.42 West, 0.5 North and Continued WATER LEVEL DATA **GENERAL NOTES** Begin Drilling 01-11-2008 Complete Drilling 01-11-2008
Drilling Contractor GBE Drill Rig Diedrich D-50 TMR У DRY While Drilling At Completion of Drilling Driller G&R Logger J, Kasnick Checked by N, Davis Time After Orlling NA.... Depth to Water Drilling Method 2.25" ID HSA; Boring Backfilled Upon Completion ..... The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual.

		DODIN	NG LOG	D OF		Page 1 of 1								
Wang Engineering, INC. Consuling Geolectrical and Environmental Engineers		1-1.5		15	alum: NAVD 88									
wangeng3@wangeng.com	-1-	a	ob No.: 555-1		levation: 636.96 ft lorth: 1765470.48 ft	9								
1145 Main Street Clie Lombard, IL 80148			tment of Tra	ilspoilation E	net: 1191207.50 ft									
Telephone: 630 953-9928			vill Countle		tation; 2493+00 ffset: 7 LT									
Fax: 630 953-9938	ation	COOK AND.	yyıı Counde	Signification Control of the Control	njoer i Ci									
	e j	s e	8	V	y No.	e (%)								
SOIL AND ROCK DESCRIPTION	Depth (ff) Sample Typ Sample No	(tsh) Clu (tsh) Moisture	Profile Profile Elevation (ff)	SOIL AND ROCK	Depth (ff) Sample Type recovery Sample No. SPT Values (blw/6 in)	Qu (tsf) Moisture Content (%)								
E E DESCRIPTION	Sample Type	(blw/6 in). Cu (tsr) Moisture	8 - 5	DESCRIPTION	Sam Sam	\$ \$								
636,73-inch thick, black LOAM														
TOPSOIL Very stiff, black, brown and gray	/	2			- 1									
CLAY	W	3												
FILL-	1	5 2.05 2:	2											
		171		÷	1\/    1									
835.2	_/\	B.				0,57 27								
Medium stiff to stiff, black, brown and gray CLAY to SILTY			625.0	rý loosé, brown, fine SAN	$\frac{\nabla}{\partial x} / \frac{\nabla}{\partial x} $	В								
CLAY, with slit and sand		3		A ideal of programme delice	″ / /									
InterbedsFILL-	. 1//	2												
	- 1 2	0.00	2 624.0	e										
	-  ∧¶	3 B 2	1/2/ 2m	f, gray CLAY, with slit and interbeds										
	4///	4												
				•	1// 4									
7 3 1,15 2														
3 3 0.80 24														
621.5														
	4 Medium dense, gray, fine SAND													
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		4												
GENERAL NOTES WATER LEVEL DATA														
GENERAL				The state of the s										
	Complete Drilli		14-2008 h D-50 TMR	While Drilling At Completion of Drilling	又 12,00 ft ¥ 10.00 ft	T 17 CO. 10 L 0 L 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1								
Drilling Contractor GBE  Driller GBR Logger J				Time After Drilling	NA	ggggggeggdalla								
Orilling Method 2.25" ID HSA: Boring Backfilled Upon Completion Depth to Water Y NA														
Section 2014 and the section of the	•		·	The stratification lines represent between soil types: the actual tru	the approximate boundary ansition may be oreduel.									
	· · · · · · · · · · · · · · · · · · ·		The second second											

Wang Engineering, INC. Consults Gesteendest and Environmental Engineers wangeng3@wangeng.com 1145 Main Street Lombard, IL 60148 Telephone; 630 953-9928 Fax: 630 953-9938	Client III Project FA Location	OG B-26 : 555-12-07 of Transportation to Goodenow Road ounties, Illinois	5-12-07   Datum: NAVD 88   Elevation: 854.10 ft   North: 1768769.25 ft   East: 1190599.58 ft   Station: 2527+00   Olfset: 6 LT						
SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type receivery Sample No.	SPI Values (blw/6 in) Qu	Moisture Content (%)	Profile	SOIL AND RO		Sample No. SPT Values (blw/6 in)	8£	Moisture Content (%)
033.03-inch thick, black LOAM -TOPS		3			\ trace organics Boring terminated ED1T	OMESICIL/			
Stiff to very stiff, black, brov									
and gray CLAY	-u_l	3 2.7	1 26			<del>( i</del> .			•
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Utility Obstruction Encount	gred					7			1
at 9.0 bgs, Offset 2.75 We	st, / ] \ 6	4 3.1 P				4			
Very stiff, black SILTY CLA	Y, 10	X/				20			
CENE	RAL NOTES			1_	I WA		_ DATA	<del> </del>	<u>I</u>
Regin Drilling 01-14-2008	Complete Dri	Ning	01-1	4-20	08 While Drilling	<u>∑</u>	DRY		
Drilling Contractor GE	3E	riii Rig D	edric	ı D.	50 TMR At Completion of C	and - 10400000 a	DRY.	erten tita b	, r je j
Driller G&R Logger	J. Kasnick	Check	ed by	Ŋ,Į	Davis Time After Drilling	NA Y NA	. #14		
Drilling Method 2,25", ID HSA; E			yomr	Hetic	The straillication lines hatween soil types; the	represent the approx	ximale bounder	у	

Page 1 of 1

1 L T	Wang Engineering, INC; Describing Geotophical and Proposed States of the Control	Client Project Docation			ilinoi AP. 33	We s De 2 IL:	Joi partr 394,	No neni	.: 555- of Tra	B-27 12-07 ensportation odenow Ress, Illinois	oad	Datum: N Elevation North: 17 East: 119 Station: 2 Offset: 8	; 632 6900 0492 629+	75 f 0,71 ,35 f	fí		
Profile	SOIL AND ROCK DESCRIPTION	, Geo	Sample Type	Sample No.	SPT Values (blw/6 in)	9 (S	Moisture Content (%)	Profile	Elevation (ft)		ND ROC RIPTION		Sample Type	Sample No.	SPT Values (blw/6 in)	Our (fst)	Moisture Content (%)
	832,52,55-inch thick, black LOAMTOPS Very stiff, black, brown and CLAY to SILTY CLAY, with InterbedsF	gray		1	3 5 8	2.79 B	18		522.7 Sti	lff, gray CL/	AY:	,		ß	3 5	1,56 B	22
	<sub>eze.e</sub> Medium stiff to stiff, black,	-		2	6 B	3.53 B	20		<u>620,2</u> Bor	ing termina	ited at 12:50	)A	/\ -		5		,
	brown and gray SILTY CLAY CLAY, with silt interbeds F				1 <u>5</u>												
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
	Soft, brown and gray SILTY Soft, brown and gray SILTY CLAY Loose, brown, fine SANDY LOAM				20												
Drill Drill	GENEI in Drilling 01-14-2008 ling Contractor GBI er G&R Logger ling Method 2.25" ID HSA: Br	Com E J. Ka oring Ba	pleti shiq icki	e Drii D Ck filled	Che	Diec cked	irich by j	D-5	OTMR avis	Time After Depth to V	ing filon of Drilling Drilling	NA NA	embares.	D D	RY	2, a ( k + 4)	60 = 100) (148 = 1)

Wang Engineering, INC. Consulting Geolechnical and Engineers Wangengs@wangengs.com 1145 Main Street Lombard, IL 60148 Telephone: 630.953-9938  Client   Illinois Department of Transportation   Station: 2559+50   Datum: NAVD 88 Elevation: 633.91 ft North: 1771893.13 ft East: 1189878.61 ft Station: 2559+50   Offset: 6 RT													
SOIL AND F		SPT Values (blw/6 in)	Qu (tsf) Moisture	Profile	BESCRIPTION BESCRIPTION	Ou (tsf) Moisture	Moisture Content (%)						
Very stiff, black, bro CLAY to SILTY CLA interbeds	OAMTOPSOIL/ wn and grayFILL	3 4 7	3.85 18 B		FILL 2	1,48 B	25						
brown and gray CLAY  -FILL-  2 5 0,66 25 5 5 5 5 5 5 5 6 7 1													
53 0.82 8 30 15													
		1 3 4 3	0.66 24 B										
5 2 0,41 29 3 Stiff, black, brown and gray CLAY 10 20													
Begin Drilling 01-14-2 Drilling Contractor Driller G&R	GENERAL NOTE 008 Complete GBE Logger J. Kasnick HSA; Boring Backfil	Drilling Drill Ri k Ch lled Upi	Diedric ecked by on Com	:h D: I.И.	50 TMR At Completion of Drilling T. DRY.  Davis. Time After Drilling NA	enenentario ha	koje t						

Page 1 of 1 **BORING LOG B-29** Wang Engineering, Inc. Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 634,49 ft wangeng@wangeng.com North: 1772032,59 ft Client Illinois Department of Transportation 1145 North Main Street East: 1189872.03 ft Lombard, Illinois 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Slation; 2560+75 Telephone: 630,953,9928 Fax: 630,953,9938 Cook and Will Counties, Illinois Offset: 7 RT SOIL AND ROCK **SOIL AND ROCK 2**5 S S DESCRIPTION **DESCRIPTION** 68441,5-inch thick, black LOAM -- TOPSOIL-Very stiff, black, brown and gray 3.85 В 28 0.82 Medium stiff to stiff, black, brown and gray CLAY 0.90 23 В 20 0.90 32 0.66 3 3 1.23 23 0.06 28 Very stiff, gray CLAY 2 0.66 31 3 В 21 3.53 8 WATER LEVEL DATA **GENERAL NOTES** 01-14-2008 **Σ** DRY 01-14-2008 Complete Drilling While Drilling GBE Dill Rip Diedrich D-50 TMR At Completion of Drilling ¥ DRY Time After Drilling ....NA Depth to Water Y NA.
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. Depth to Water 2:25" ID HSA; Boring Backfilled Upon Completion ...

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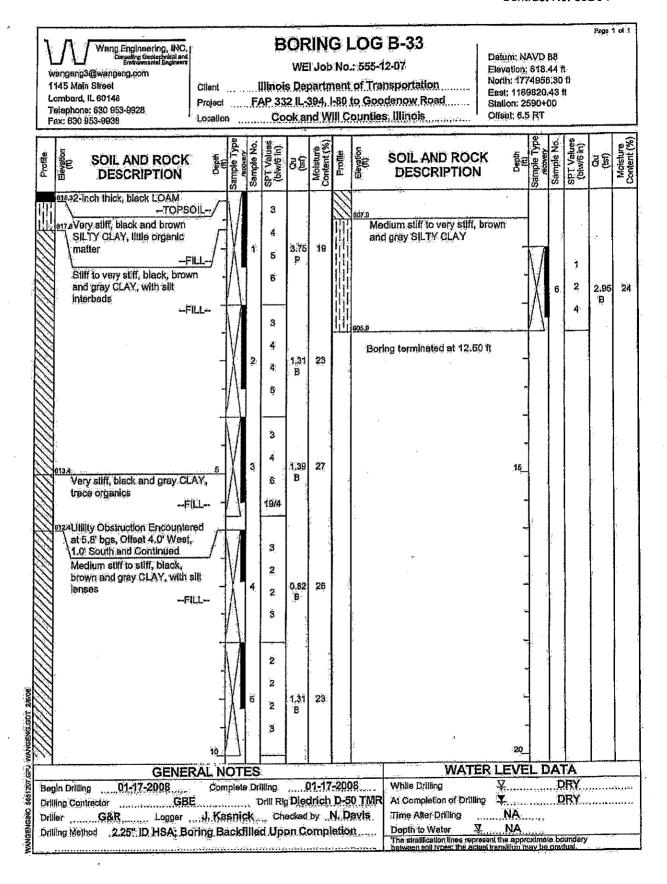
**BORING LOG B-30** Wang Engineering, INC Consuling Geolectrical and Environmental Engineers Datum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 627.12 ft wangeng3@wangeng.com North: 1773309.86 ft Client Illinois Department of Transportation 1145 Main Street East: 1189850,43 ft Preject FAP 332 IL-394, I-80 to Goodenow Road Lombard, IL 60148 Station: 2573+50 Telephone: 630 953-9928 Offset: 7 RT Location Cook and Will Countles, Illinois Fax: 630 953-9938 Moisture Content (%) SPT Values (blw/6 in) Elevator (III) SOIL AND ROCK £ € evatio (ft) SOIL AND ROCK DESCRIPTION DESCRIPTION 626.92-Inch thick, black LOAM -- TOPSOIL 3 Stiff, black and gray CLAY 6: 16 3.77 Very stiff, brown and gray SILT) 8 В CLAY to CLAY Very soft, gray CLAY --FILL--10 25 0.16 2 2.79 6 Medium stiff to stiff, brown and gray CLAY to SILTY CLAY, with Stiff to very stiff, gray SILTY CLAY, with sand interbeds 2 0.08 22 sand and slit interbeds 3 1.97 16 В 6 2 1.75 23 2 0.90 22 3 Boring terminated at 17.50 ft 2 20 0.74 B WATER LEVEL DATA **GENERAL NOTES** DRY Complete Drilling 01-14-2008 While Drilling Begin Drilling 01-14-2008 Al-Completion of Drilling Driller G&R Logger ... J. Kasnick ... Checked by N. Davis Time After Drilling NA Depth to Water Drilling Method 2.25" ID HSA; Boring Backfilled Upon Completion..... The stratilication lines represent the approximation may

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**BORING LOG B-31** Wang Engineering, INC. Consuling Spotestrated and Environmental Engineers Datum; NAVD 88 WEI Job No.: 555-12-07 Elevation: 625,28 ft wangeng3@wangeng.com North: 1773558.33 ft Illinois Department of Transportation 1145 Main Street Client East: 1189844.92 ft Project FAP 332 IL-394, I-80 to Goodenow Road Lombard, IL 60148 Station: 2576+00 Telephone: 630 953-9928 Cook and Will Counties, Illinois Offset: 6 RT Fax: 630 953-9938 SPT Values (blw/6 in) Qu (tsf) SOIL AND ROCK SOIL AND ROCK Elevati (f) DESCRIPTION DESCRIPTION 2512.0-Inch thick, black LOAM --TOPSOIL 3 Stiff to hard, black, brown, gray à and greenish-gray CLAY, with 4.76 silt interbeds 6 -47111 P 25 0.82 3 3 1.72 B 24 0.98 3 2 1.15 B 20 5 Hard, gray CLAY 2 Stiff, gray CLAY, with sand interbeds 4.18 20 2 1,30 22 3 Ħ 5 Soft to medium stiff, gray CLAY Boring terminated at 17.50 ft 2 2 0.49 23 2 В 3 WATER LEVEL DATA **GENERAL NOTES** 又\_\_\_\_\_13.00 ft\_\_\_\_\_\_ Complete Drilling 01-14-2908 While Drilling Begin Drilling ..... 01-14-2008 .... ¥ 16.00 ft Drilling Contractor GBE Drill Rig Diedrich D-50 TMR At Completion of Drilling ....NA Doller \_\_\_\_\_G&R \_\_\_\_Logger \_\_\_J. Kasnick Checked by N. Davis Time After Drilling Y NA
present the appro-Depth to Water Drilling Method 2:25" ID HSA; Boring Backfilled Upon Completion... The stratification lines repres

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**BORING LOG B-32** Wang Engineering, INC Consuling Sedechales and Engineering Property Dalum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 617.65 ft wangeng3@wangeng.com North: 1774804.97 ft Illinois Department of Transportation 1145 Main Street East: 1189822.45 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station: 2588+50 Telephone: 630 953-9928 Cook and Will Counties, Illinois Offset: 6 RT Fax: 630 953-9938 SPT Vatu (blw/6 in Elevætion (ft) SOIL AND ROCK **SOIL AND ROCK** 35 DESCRIPTION DESCRIPTION መረ 51,5-inch thick, black LOAM Stiff, black, brown and gray CLAY to SILTY CLAY, with silt interbeds 1.80 23 --FILL-В 1,31 22 ₿ 1.89 21 3 В 23 1.80 Stiff, brown and gray CLAY 1.15 24 В Medium dense, brown and gray Boring terminated at 15.00 ft SILT, with sand interbeds 2 n NP 25 Soft, black and gray CLAY, with brown, silt interbeds 0.33 28 1 В 3 Stiff, gray CLAY WATER LEVEL DATA **GENERAL NOTES** ☑ 5.00 ft While Drilling Begin Drilling 01-17-2008 Complete Drilling 01-17-2008 ¥ 12.00 ft At Completion of Drilling Driller \_\_\_\_\_G&R \_\_\_\_Logger \_\_\_J. Kasnick \_\_ Checked by N. Davis Time After Drilling NA.. The strallication lines represent the approximation in the actual transition me Drilling Method 2.25" ID HSA; Boring Backfilled Upon Completion



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**BORING LOG B-34** Wang Engineering, INC. Dalum: NAVD 88 WEI Job No.: 555-12-07 Elevation: 618.91 ft wangeng3@wangeng.com North: 1776695.23 ft Illinois Department of Transportation 1145 Main Street East: 1189788.12 ft Project FAP 332 IL-394, I-80 to Goodenow Road Lombard, IL 60148 Station: 2607+50 Telephone: 630 953-9928 Offset: 5 RT Gook and Will Counties, Illinois Fax: 630 953-9938 SPT Values (btw/6 in) SOIL AND ROCK SOIL AND ROCK 35 DESCRIPTION DESCRIPTION 01072-inch thick, black LOAM -- TOPSOIL Very stiff, black, brown and gray CLÁY, trace organic matter 18 3 53 6 В Medium stiff to stiff, brown and gray CLAY 23 0.51 2 3.94 23 5 В 5 2 Medium stiff, black, brown and gray CLAY, with sand interbeds 21 1,64 19 0.86 В Boring terminated at 15.00 ft 2 Soft to medium stiff, black, brown, gray and greenish-gray CLAY, with sand and slit 22 0.82 3 interbeds 3 Utility Obstruction Encountered at 6.7' bgs, Offset 5.0' West, 7.2' South and Continued 16 15 0.25 15 7 В WATER LEVEL DATA **GENERAL NOTES** Begin Drilling 01-17-2008 Complete Drilling 01-17-2008 While Drilling At Completion of Drilling **▼** DRŸ Drilling Contractor GBE Drill Rig Diedrich D-50 TMR Driller \_\_\_\_\_\_ G&R \_\_\_\_ Logger \_\_\_\_ J, Kasnick \_\_ Checked by \_N. Davis Time After Drilling NA.... Depth to Water Drilling Method 225" ID HSA; Boring Backfilled Upon Completion.... NA.. Depth to vivater X. NA.

The shallingation lines represent the approximate boundary between sell types; the actual transition may be gradual.

Begin Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BISA; Borling Backfilled, Upon Completion Time After Drilling Method 2,257.0 BIS	1 L	1145 Me Lombard Felephor	Wang Engineering, Consulting Geoductuml Environmental Engi (3@wangeng.com) In Street , IL 60148 Ie; 630 953-9928 953-9938	Cilent			Ilinol AP 33	: 555-/ of Tra to Goo	Datum: NAVD 88 Elevation: 622:25 it North: 1779888.40 ft East: 1189535.34 ft Station: 2639+50 Offsel: 7 RT								
Silf, black and birown SILTY Salf, black brown and gray SANDY CLAY, little organic matter SILTY CLAY, with sand Interbeds  SILTY CLA	Profile		DESCRIPTIO	N a	Sample Type	Sample No.	SPT Values (blw/6 in)	<b>3</b>	Mofsture Confent (%)	Profile	Elevation (ft)		K s	Sample Type recovery Sample No.	SPT Values (blw/6 in)	(E)	Moisture Content (%)
Begin Drilling Dri-17-2008 Complete Drilling Dri-17-2008 While Drilling Contractor Order ORK Drilling Contractor ORK Drilling Management Drilling ORK Drilling Management Drilling Drilling Drilling Drilling Management Drilling Dr		St. St. St. St. St. St. St. St. St. St.	Ti  Iff, black and brown s .AY, little organic ma  Iff, black, brown and NDY CLAY  by stiff, black, brown	OPSOIL-/ BILTY tterFILL-/ grayFILL-		1	,5 .6.		13		Bor	ing terminated at 10.0	0 ft				
Interpeds  4 1.48 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18		818.5 Me	edjum stiff to stiff, bro	wn and		2	7		17								
Sliff to very stiff, brown and gray CLAY, trace organic matter  1 2 1.64 27  5 2 1.64 27  3 3 0.90 19  8 27  5 2 1.64 27  5 2 1.64 27  8 20 WATER LEVEL DATA  Begin Drilling D1-17-2008 Complete Drilling D1-17-2008 While Drilling DRY.  Drilling Contractor GBE Drill Rig Diedrich D-50 TMR At Completion of Drilling DRY.  Drilling G&R Logger J. Kasnick Checked by N. Davis Drilling NA  Drilling Melhod 2.25* ID HSA; Boring Backfilled Upon Completion.				\$ and \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		3	4.		16				15				
GENERAL NOTES  GENERAL NOTES  Begin Drilling		Sil	if to very stiff, brown AY, trace organic ma	and gray tter		4	3		19	11.3.13.1							
Begin Drilling 01-17-2008 Complete Drilling 01-17-2008 While Drilling ♀ DRY.  Drilling Contractor GBE Drilling Diedrich D-50 TMR At Completion of Drilling ▼ DRY.  Drilling Method 2,25" ID HSA; Boring Backfilled Upon Completion Depth to Water ♀ NA  The stratification lines represent the approximate boundary.		612.3		40		5	2		27				20_				
	Dril	lling Cor ller	np 01-17-2008 hractor G&R Log hod 2,25" JD HSA	Con GBE per J. Ka y Boring Ba	pleto Sinic acki	e Dr L Sk Tille	illing Orill Rig Gho d <b>Up</b> r	Died ocked	irich by!	D-5 V. D	0 TMR avis	While Drilling At Completion of Drilling Time After Drilling Depth to Water	¥ 19 ¥ NA Z NA		ORY ORY	**************************************	e de de de

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**BORING LOG B-36** Wang Engineering, INC Datum: NAVD 88 WEI Job No.; 555-12-07 Elevation: 621.50 ft wangeng3@wangeng.com North: 1783236.14 ft 1145 Main Street Client Illinois Department of Transportation East: 1189435.54 ft Lombard, IL 60148 Project FAP 332 IL-394, I-80 to Goodenow Road Station: 2673+00 Telephone: 630 953-9928 Offset: 8 RT Location Cook and Will Counties, Illinois Fax: 630 953-9938 Sample No. SPT Values (blw/6 in) SPT Value (blw/6 in) Moisture Content (\*) Profile **SOIL AND ROCK** SOIL AND ROCK Elevatio 98 98 DESCRIPTION DESCRIPTION 921-92-inch thick, brown LOAM Boring terminated at 10:00 ft -- TOPSOIL Very stiff, black and brown 6 SILTY CLAY, trace organic 3.25 14 matter. 6 Medium dense, brown and gray, fine SAND, trace organic matter Very loose to loose, black and brown, fine SAND 18 -FILL. ΝP 5 5 2 ΝP 24 4 0 Stiff, gray CLAY --FILL-Very loose, brown, black and 1.07 23 gray SAND Ò 0 Utility Obstruction Encountered at 7.5' bgs, Offset 5.75' West, 1.0' North and Continued O Stiff, gray CLAY 22 1,56 Ž В: 3 WATER LEVEL DATA **GENERAL NOTES** Begin Drilling 01-17-2008 01-17-2008 While Drilling 5.00 ft Complete Drilling Drilling Contractor GBE Drill Rig Diedrich D-50 TMR At Completion of Drilling Driller G&R Logger J. Kasnick Checked by N. Davis Time After Drilling NA. Drilling Method 225" ID HSA; Boring Backfilled Upon Completion ....