Wang Engineering

wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148

Telephone: 630 953-9928 Fax: 630 953-9938

BORING LOG SB-05

WEI Job No.: 486-11-01

Client Collins Engineers, Inc.
Project I-90/94 (Kennedy Expressway) at Ontario Street
Location NE1/4, Sec. 8, R14E and T39N of 3rd PM

Datum: NAVD 88 Elevation: 585.46 ft North: 1904460.02 ft East: 1168902.48 ft Station: 110+69 Offset: 15 LT

Profile	SOIL AND ROCK DESCRIPTION	Depth (#)	Sample Lype	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND RO		Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture
5	\$\$6.23-inch thick, black SILTY CLAY LOAM TOPSOIL Very stiff to hard, black and dar gray SILTY CLAY, trace gravel and brick fragments FILL	-/- k	1	7 6 6	2.00 P	12		1	S _{u remold}	, 20.0 fee = 1448 psi = 931 psi vity = 1.56	f f	X	9	1 2 2	0.49 B	24
	580.0	5_	<u></u>	4 5 9	4.25 P	14		1	n-Situ Vane Shear,	. 25.0 fee	- - - 25_ t	X	10	1 2 2	0.41 B	25
	Stiff to very stiff, gray to dark gray SILTY CLAY, trace gravel		3	10 7 7	1.50 P	16			S _{u undis} =	= 1137 ps = 724 ps vity = 1.57	f f	X	11	1 1 3	0.49 B	25
		10_		3 3 4	2.05 B	18		1	n-Situ Vane Shear,			X	12	1 1 2	0.49 B	23
	Soft to medium stiff, gray SILTY CLAY, trace gravel	 	<u> </u>	1 2 3	0.74 B	21			S _{u remold}	= 1344 ps = 930 ps vity = 1.44 Y, trace	f					
	la City Vena Chang 45 5 5 5	15	6	1 1 2	0.49 B	24					35_	<u>V</u>	13	3 4 4	1.80 B	10
	In-Situ Vane Shear, 15.5 feetS _{u unds} = 1502 psfS _{u remoid} = 958 psfSensitivity = 1.57	- 🕇	7	1 1 3	0.82 B	18		548.5 Stit	ff, gray CLAY, trace	e gravel	- - -					
		20	8	3	0.49 B	25					40_	X	14	2 3 5	1.31 B	2*
	GENERA									TER L		L C				_
Begin Drilling 10-10-2011 Complete Drilling 10-10-2011 Drilling Contractor WTS Drill Rig D-50 ATV Driller K&K Logger C. Davis Checked by S. Sugiarto Drilling Method 3.25 IDA HSA; Boring backfilled upon completion							While Drilling At Completion of D Time After Drilling Depth to Water The stratification lines	Ā	NA NA		VAS	RY SHE				



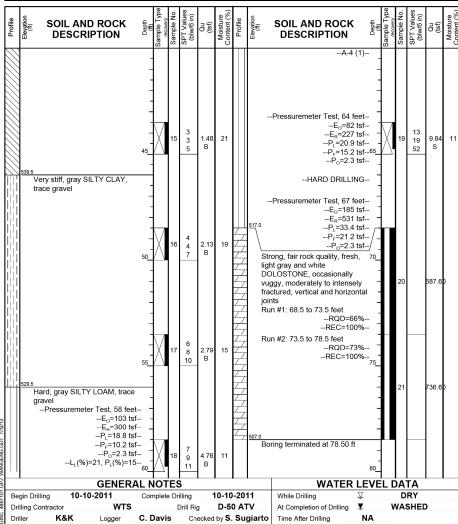
wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938

BORING LOG SB-05

WEI Job No.: 486-11-01

Client Collins Engineers, Inc.
Project I-90/94 (Kennedy Expressway) at Ontario Street
Location NE1/4, Sec. 8, R14E and T39N of 3rd PM

Datum: NAVD 88
Elevation: 585.46 ft
North: 1904460.02 ft
East: 1168902.48 ft
Station: 110+69
Offset: 15 LT



Depth to Water <u>▼</u>

NA

Wang Engineerin

wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938 BORING LOG SB-08
WEI Job No.: 486-11-01

WEI Job No.: 486-11-01 Collins Engineers, Inc. Elevation: 573.56 ft North: 1904556.30 ft East: 1169292.19 ft Station: 106+38 Offset: 1 LT

Datum: NAVD 88

Project I-90/94 (Kennedy Expressway) at Ontario Street
Location NE1/4, Sec. 8, R14E and T39N of 3rd PM

_														
Profile	SOIL AND ROCK Hamp DESCRIPTION	Sample I ype recovery Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ff)	SOIL AND ROCK DESCRIPTION	Depth (#)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
### ### ###	12-inch thick, reinforced 172,6CONCRETE 172,0 -PAVEMENT 6-inch thick, CRUSHED STONE -BASE COURSE Brown, medium SAND, some	G 1	59,27	NP	9					X	11	3 3 4	0.74 B	
	669.9gravelFILL Medium stiff, gray CLAY 5 568.1DISTURBED SAMPLE	2	2 2 2	0.50 P	20				30_	X	12	4 4 5	1.80 B	23
	Very soft to soft, gray SILTY CLAY, trace gravel	3	0 0 0	0.49 B	25		541.6 Stiff gra	f, gray SILTY LOAM, trac vel	- -					
	10_	4	P U S H	0.25 P	26			L _L (%)=24, P _L (%)= %Gravel=: %Sand=18 %Silt=60	3.9 3.735 <u> </u>	X	13	4 4 6	1.31 B	16
		5	0 0 0	0.41 B	20		537.6 Ver	%Clay=10 A-4 y stiff, gray SILTY CLAY						
	15_/	6	0 0 0	0.33 B	28				40	X	14	4 6 8	3.28 B	16
	555.6	7	0 0 0	0.41 B	25		531.6 Ver	y stiff, gray CLAY	-					
	Medium stiff to stiff, gray SILTY CLAY 20	8	P U S H	1.05 B	20			y stiff to hard, gray SILTY AY, trace gravel	45_	X	15	4 5 11	2.71 B	18
OT 6/27/12	1	9	0 0 2	0.66 B	20				-					
4861101.GPJ WANGENG.GDT	25	10	4	0.98 B	19			WATER	50 <u></u>	X	16	8 9 11	5.00 B	12
<u>2</u>	GENERAL NOTES						WATER LEVEL DATA							
91 Be		olete D			10-05			While Drilling	<u> </u>			50 ft		
	Drilling Contractor WTS Drill Rig Mobile B-57							At Completion of Drilling WASHED						
Dr	Driller R&N Logger E. Datz Checked by S. Sugiarto							Time After Drilling NA						
NANGENGINC TO TO	filling Method 3.25 IDA HSA; Boring b	ackfi	lled u	pon	com	ple	tion	Depth to Water						
≷								between soil types: the actual transition may be gradual.						



USER NAME =	DESIGNED	-	MAH	REVISED
	CHECKED	-	LDB	REVISED
PLOT SCALE =	DRAWN	-	DR	REVISED
PLOT DATE =	CHECKED	-	JMH	REVISED

Drilling Method 3.25 IDA HSA; Boring backfilled upon completion