OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

SOIL BORING LOG

PAGE 1 of 2
DATE August 18, 2011
LOGGED BY AO
OBA JOB No. 11585

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Culvert
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. CB-02
Station 140+60
Offset 8.2 ft Left
Ground Surface Elev. 642.2 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" Black TOPSOIL FILL	641.7				
SILTY CLAY-brown & gray- stiff to hard (A-6)			6		
			6 8	3.5P	17
			4		108
		-5	5 7	4.4B	19
			4		105
			6 9	1.9B	22
			3		112
		-10	3 5	2.4B	18
			2		110
			3 5	1.0B	20
			2		104
		-15	2 3	1.2B	22
	626.2				
CLAY-gray- stiff to very stiff (A-6)			5		113
			8 10	2.5B	18
			8		
		-20	9 11	--	21
CLAY-gray- stiff to very stiff (A-6)			5		
			6 8	--	21
			4		11
		-25	6 8	1.9B	16
			6		
			6 9	--	25
			5		10
		-30	9 13	3.3B	19
	608.7				
SILTY LOAM-gray- medium dense (A-4)			6		
		-35	9 10	NP	16
	603.7				
SILTY CLAY-gray- stiff (A-6)			6		11
		-40	5 6	1.8B	16

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) NP=Non-Plastic VS=Vane Shear Test
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 (%)
NR-No Recovery LL=Liquid Limit PL=Plastic Limit PI=Plasticity Index

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-gray- hard (A-6)					
			8		121
		-45	8 9	7.9B	14
			8		121
	592.2	-50	8 8	5.9B	14
End of Boring @ -50.0'					
4.0" Hollow Stem to -6.0'					
Rotary Drilling Started at -6.0'					
CME Automatic Hammer					
		-55			
		-60			

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FILE NAME = c:\cadd1ib\pw\kkhan@great_lakes\dms47849\60P35-S6-Soil Borings 2.dgn	USER NAME = kkhan	DESIGNED - SK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MANNHEIM RD OVER O'HARE DITCH CULVERT SOIL BORING LOGS 2	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SK	REVISED -				0105-WRS	COOK	537	325
DELTA ENGINEERING GROUP, LLC	PLOT SCALE = $SCALE$	CHECKED - GBC	REVISED -					CONTRACT NO. 60P35		
	PLOT DATE = 10/10/2012	DATE - 06/25/12	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		