SOIL BORING LOG

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

PAGE 1 of 1
DATE August 10, 2011
LOGGED BY JW
OBA JOB No. 11585

ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Cantilever Sign
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. SG-CN2
Station 122+03
Offset 76.3 ft Right
Ground Surface Elev. 637.9 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 605.9 ft
Upon Completion Dry
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Misc. CLAY, SILT & STONE FILL			6		120
			7		
			12	7.2B	15
	633.9		5		
SANDY LOAM-brown- medium dense (A-2) Possible Fill		-5	6		
			6	NP	21
	631.9				
CLAY-brown & gray- very stiff (A-6)			3		115
			7		
			9	3.3B	17
			4		
		-10	5		
			7	3.0P	21
			4		106
			4		
			7	2.1B	22
			4		111
		-15	5		
			6	2.8B	19
	622.4				
SANDY LOAM-gray- medium dense (A-2)			8		
			6		
			6	NP	16
	619.4				
CLAY-gray- very stiff to hard (A-6)			5		116
			5		
		-20	7	2.3B	17
CLAY-gray- very stiff to hard (A-6)			3		115
			4		
			8	2.3B	17
			5		119
		-25	9		
			13	6.2B	15
	611.9				
SANDY LOAM-gray- medium to very dense (A-2)			27		
			42		
			50/ 4"	NP	16
			32		
		-30	50/ 5"	NP	14
			7		
wet		-35	8		
			7	NP	30
	600.9				
SILTY CLAY-gray- hard (A-6)			6		123
			8		
End of Boring @ -40.0' CME Automatic Hammer	597.9	-40	15	5.6B	14

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DATE August 24, 2011
LOGGED BY TOB
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ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Cantilever Sign
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. SG-CS1
Station 164+14
Offset 53.5 ft Left
Ground Surface Elev. 643.5 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 (%)
Black SAND & GRAVEL FILL	642.5				
CLAY-brown & black- hard (A-6) FILL			4		
			5		
			7	4.5P	18
	639.5		3		
Black TOPSOIL wet		-5	4		
			4	1.5P	38
	638.0				
CLAY-brown & gray- stiff to hard (A-6)			3		101
			4		
			5	2.4B	24
			3		106
		-10	5		
			8	3.5P	20
			7		113
			11		
			16	4.8B	17
	629.5		7		116
CLAY-gray- very stiff (A-6)			9		
		-15	13	3.8B	17
			6		114
			8		
			8	2.0B	17
			3		101
			7		
		-20	13	3.7B	24
CLAY-gray- very stiff (A-6)	622.5				
			11		
SILTY LOAM-gray- medium dense (A-2)			9		
			8	NP	21
	620.0				
			5		119
CLAY-gray- hard (A-6)		-25	9		
			11	4.0B	15
			12		
	616.5		50/ 5.5"		NR
SILTY LOAM-gray- medium to very dense (A-4)					
			40		
		-30	50/ 5"	NP	15
			42		
		-35	50/ 5.5"	NP	16
			4		
			8		
		-40	6	NP	19

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM-gray- medium to very dense (A-4)					
	600.0				
			20		127
SILTY CLAY-gray- very stiff to hard (A-6)		-45	40	4.7B	11
			12		116
	593.5	-50	16 22	3.3B	16
End of Boring @ -50' 4.0" Hollow Stem to -6.0' Rotary Drilling Started at -6.0' CME Automatic Hammer					
		-55			
		-60			
		-65			
		-70			
		-75			
		-80			

BOR-17

DELTA ENGINEERING GROUP, LLC

USER NAME = kkhan	DESIGNED	REVISED -
	DRAWN	REVISED -
PLOT SCALE = $SCALE$	CHECKED	REVISED -
PLOT DATE = 10/10/2012	DATE 10/19/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
MANNHEIM ROAD SIGN STRUCTURE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS	COOK	537	348
		CONTRACT NO. 60P35		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47849\D160P35-sht-bor-17.dgn