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. 11584

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Truss Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG TN 2-2
Station Sta. 97+76
Offset 120.6 ft Right
Ground Surface Elev. 643.9 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 (%)
SILTY CLAY-brown & gray-stiff to very stiff (A-6) FILL			4		99
			6		
wet			7	2.3B	26
			3		
	638.9	-5	2	1.25P	19
SILTY CLAY-gray-hard (A-6)			3		108
			6		
			9	5.7B	21
	635.4				
SILTY CLAY-gray-very stiff to hard (A-6)			6		110
			10		
		-10	14	4.0B	20
			4		111
			6		
			9	2.7B	19
			4		
			5		
		-15	8	2.75P	21
			3		
			10		
			7	2.75P	10
	625.9				
SILT-gray-medium dense (A-4)			4		
			6		
		-20	7	NP	17
SILT-gray-medium dense (A-4)	622.9				
SILTY CLAY-gray-very stiff to hard (A-6)			8		111
			13		
			10	2.1B	19
			6		119
			9		
		-25	10	4.7B	15
			9		
			13		
			15	D	20
			5		115
			9		
		-30	13	4.9B	17
	610.4				
SILT-gray-very dense (A-4)			36		
			50/5"		
		-35		NP	16
SAND & GRAVEL-gray-medium dense (A-2)	605.4				
			11		
			12		
End of Boring @ -40' 4.0" Hollow Stem to -5.0' Rotary Drilling Started at -5.0' CME Automatic Hammer	603.9	-40	14	NP	14

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DATE August 8, 2011
LOGGED BY JW
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ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Truss Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG TN 3-1
Station Sta. 103+84
Offset 103.0 ft Left
Ground Surface Elev. 642.5 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Misc. CLAY, STONE & SILT FILL			4		100
	641.0				
SILTY CLAY-mottled brown & gray-very stiff (A-6)			6		
			8	3.8B	21
	639.0				
SILTY CLAY-brown & gray-very stiff to hard (A-6)			3		101
			5		
		-5	7	3.5B	22
			3		105
			5		
			10	7.3B	20
			6		108
			10		
		-10	13	6.5B	17
	631.5				
SILTY CLAY-gray-very stiff to hard (A-6)			3		103
			6		
			9	4.0B	20
			4		104
			6		
		-15	13	2.5B	21
			3		97
stiff			6		
			7	1.9B	24
			4		102
			6		
		-20	9	2.7B	23
SILTY CLAY-gray-very stiff to hard (A-6)			4		114
			8		
			12	5.4B	15
			5		116
			9		
		-25	14	6.1B	15
			5		113
			9		
			16	7.2B	16
	614.0				
SILT-gray-very dense (A-4)			30		
			50/5"	NP	15
	612.5	-30			
End of Boring @ -30.0' CME Automatic Hammer		-35			
		-40			

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PAGE 1 of 1
DATE August 4, 2011
LOGGED BY JW
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ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Truss Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG TN 3-2
Station Sta. 103+75
Offset 97.2 ft Right
Ground Surface Elev. 641.4 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 623.4 ft
Upon Completion Dry
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" TOPSOIL FILL	640.4		3		
Misc. CLAY, STONE & SILT FILL			6		
			10	3.5P	20
	637.9				
SANDY SILTY CLAY-brown & gray-stiff (A-6)			1		102
			2		
		-5	3	1.0B	24
			1		88
			2		
wet			3	1.0B	34
	632.9				
SILTY CLAY-brown & gray-hard (A-6)			5		106
			8		
		-10	11	6.0B	22
			4		106
			8		
			12	5.2B	22
	627.9				
SILTY CLAY-gray-very stiff to hard (A-6)			3		99
			5		
wet		-15	6	2.0B	26
			3		119
			5		
			8	4.2B	15
			6		120
			10		
		-20	15	4.3B	15
SILTY CLAY-gray-very stiff to hard (A-6)			6		120
			12		
			16	5.1B	15
			6		119
			9		
		-25	13	5.3B	15
			8		124
			12		
			22	7.1B	13
	613.4				
SILT-gray-very dense (A-4)			41		
			50/4"	NP	14
	611.4	-30			
End of Boring @ -30.0' CME Automatic Hammer		-35			
		-40			

BOR-16

DELTA ENGINEERING GROUP, LLC	USER NAME = kkhan	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 10/10/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
MANNHEIM ROAD SIGN STRUCTURE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS-1	COOK	605	435
		CONTRACT NO. 60G37		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-16.dgn