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 9, 2011
LOGGED BY JW
OBA JOB No. 11584

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

STRUCT. NO. xx
Station Lawrence Avenue
BORING NO. SMR-31
Station Sta. 11+46
Offset 26.5 ft Right
Ground Surface Elev. 642.3 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 (%)
10.0" TOPSOIL	641.5				
			4		89
LL=46 PL=25 PI=21			4		
SILTY LOAM-brown & black-very stiff (A-7) FILL wet			6	2.5P	29
	638.3		2		97
			3		
		-5	3	1.4B	24
CLAY-brown & gray-stiff to hard (A-6)			4		100
wet			3		
			4	2.25P	25
			6		104
	631.3	-10	9		
			13	7.0B	20
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

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

STRUCT. NO. xx
Station Lawrence Avenue
BORING NO. SMR-32
Station Sta. 14+46
Offset 23.0 ft Left
Ground Surface Elev. 641.1 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 (%)
4.0" ASPHALT, 4.0" CONCRETE, 12.0" STONE BASE	639.4		3		93
			4		
CLAY-brown & black-very stiff (A-6) FILL wet			6	2.25P	25
			3		98
			3		
		-5	4	1.8B	24
	635.6				
End of Boring @ -5.5'/obstruction CME Automatic Hammer					
		-10			
		-15			
		-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

SOIL BORING LOG

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PAGE 1 of 1
DATE August 23, 2011
LOGGED BY TOB
OBA JOB No. 11584

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

STRUCT. NO. xx
Station xx
BORING NO. SMR-33
Station Sta. 76+75
Offset 54.0 ft Left
Ground Surface Elev. 641.0 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 (%)
Black SAND & GRAVEL FILL, trace granite and asphalt	639.5		3		96
			4		
CLAY, trace wood-mottled gray & brown-very stiff (A-7) Fill			5	2.4B	24
	637.5		2		99
			3		
CLAY-brown & gray-very stiff to hard (A-6)		-5	4	2.0B	25
wet					
			6		106
			8		
			13	5.6B	20
			6		112
	631.0	-10	10		
			13	7.5B	18
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

BOR-11

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS-1	COOK	605	430

CONTRACT NO. 60G37
ILLINOIS FED. AID PROJECT

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-11.dgn