SOIL BORING LOG

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

PAGE 1 of 1
DATE August 17, 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 xx
BORING NO. SMR-22
Station Sta. 92+74
Offset 10.1 ft Right
Ground Surface Elev. 640.0 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 (%)
6.0" GRAVEL FILL	639.5				
SILT LOAM-brown-medium dense (A-4)			4		
			5		
			9	NP	7
	636.5				
CLAY-brown & gray-very stiff (A-6)			3		112
			4		
		-5	6	3.7B	19
	634.0				
CLAY-gray-hard (A-6)			7		111
			11		
			11	4.6B	17
			6		111
			10		
	630.0	-10	10	5.2B	19
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

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PAGE 1 of 1
DATE August 8, 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 xx
BORING NO. SMR-23
Station Sta. 95+73
Offset 10.8 ft Left
Ground Surface Elev. 639.0 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 (%)
Misc. CLAY, STONE, SAND & SILT FILL					
	637.5		5		107
LL=39 PL=21 PI=18			5		
CLAY-brown & gray-hard (A-6)			7	4.8B	19
			5		108
			8		
		-5	11	8.1B	19
	633.0				
CLAY-gray-very stiff (A-6)			4		104
			6		
			9	3.2B	21
			3		98
			6		
	629.0	-10	7	2.7B	23
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

SOIL BORING LOG

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PAGE 1 of 1
DATE August 4, 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 xx
BORING NO. SMR-24
Station Sta. 98+82
Offset 7.5 ft Right
Ground Surface Elev. 640.1 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 (%)
Misc. CLAY, STONE, SAND & SILT FILL			3		111
	638.6		3		
SILTY CLAY-brown & gray-stiff to hard (A-6)			4	5.3B	19
			3		111
			3		
		-5	4	1.5B	19
	634.1				
CLAY-gray-very stiff to hard (A-6)			4		110
			10		
			12	4.2B	18
			4		
			6		
	630.1	-10	9	D	17
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

BOR-8

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	427

CONTRACT NO. 60G37
ILLINOIS FED. AID PROJECT

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-08.dgn