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 16, 2011
LOGGED BY JW
OBA JOB No. 11585

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

STRUCT. NO. –
Station –
BORING NO. NMR-13
Station 159+02
Offset 9.3 ft Right
Ground Surface Elev. 641.3 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 (%)
6.0" Black TOPSOIL FILL	640.8				
CLAY-brown & gray, spotted black- very stiff (A-6) FILL			4		
			9		
			4	2.5P	22
			4		
wet			5		
		–5	6	3.0P	25
	635.3				
CLAY-brown & gray- very stiff to hard (A-6)			4		108
			5		
			9	4.4B	20
			5		107
			8		
	631.3	–10	8	2.8B	21
End of Boring @ –10.0' CME Automatic Hammer					
		–15			
		–20			

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

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SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Straight Flight Auger
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. NMR-14
Station 162+01
Offset 9.2 ft Left
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 (%)
6.0" Black TOPSOIL & GRAVEL FILL	641.8				
SILTY CLAY-brown & gray, spotted black- hard (A-7) FILL			4		116
LL=43 PL=21 PI=22			6		
			7	6.9B	16
	638.8				
			3		102
CLAY-brown & gray- very stiff to hard (A-6)			5		
		–5	5	2.3B	24
			6		115
			9		
			10	7.2B	17
			2		110
			5		
	63.2.3	–10	9	6.9B	20
End of Boring @ –10.0' CME Automatic Hammer					
		–15			
		–20			

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

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SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Straight Flight Auger
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. NMR-15
Station 165+19
Offset 49.7 ft Right
Ground Surface Elev. 642.1 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 (%)
6.0" Black TOPSOIL FILL	641.6				
CLAY-brown & black- very stiff (A-6) FILL			4		
			5		
			6	4.0P	18
	638.1		3		97
Black TOPSOIL wet			5		
Organic Content = 3.8%		–5	7	2.8B	27
	636.6				
CLAY-brown & gray- hard (A-6)			7		115
			10		
			14	8.7B	17
			4		112
			8		
	632.1	–10	14	6.9B	19
End of Boring @ –10.0' CME Automatic Hammer					
		–15			
		–20			

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

BOR-5

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

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	336
		CONTRACT NO. 60P35		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47849\D160P35-sht-bor-05.dgn