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 24, 2011
LOGGED BY TOB
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-10
Station 150+25
Offset 97.0 ft Left
Ground Surface Elev. 637.5 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 (%)
Black SAND & GRAVEL FILL	636.0		4		111
CLAY-brown & gray- very stiff to hard (A-6)			5 6	3.2B	19
			4		111
		–5	6 6	4.3B	18
			5		113
			10 14	6.0B	18
			6		106
	627.5	–10	9 14	5.7B	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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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-11
Station 153+11
Offset 42.0 ft Right
Ground Surface Elev. 639.8 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	639.3				
CLAY-brown, spotted black- hard (A-6) FILL	637.3		5 5 7	4.5P	16
CLAY-brown & gray- very stiff to hard (A-6)			4		113
		–5	5 7	3.5B	18
			5		111
			7 7	4.9B	19
			5		111
	629.8	–10	8 10	4.2B	19
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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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-12
Station 156+03
Offset 54.2 ft Right
Ground Surface Elev. 640.4 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	639.9				
CLAY-mottled brown & gray- hard (A-6) FILL	637.9		3 3 3	4.4B	109 20
CLAY-brown & gray- very stiff to hard (A-6)			3		
wet		–5	4 5	2.25P	28
			4		111
			6 8	6.6B	19
			4		109
	630.4	–10	6 9	4.2B	20
End of Boring @ –10.0' CME Automatic Hammer		–15			
		–20			

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

BOR-4

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	335

CONTRACT NO. 60P35
ILLINOIS FED. AID PROJECT

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47849\D160P35-sht-bor-04.dgn