Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 5/22/12

ROUTE FAP 320 (IL 48) DESCRIPTION Traffic Signal Mast Arm Foundations: Pershing Rd and 22nd Street LOGGED BY E. Sandschafer

SECTION 126N LOCATION S 1/2 - Sec 36 - T 17 N; NE 1/4 - Sec 1 - T 16 N, SEC. , TWP. , RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. N/A
Station
BORING NO. 1 NW
Station *
Offset
Ground Surface Elev. ft 663.70 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 656.0 ft
Upon Completion 659.1 ft
After 48 Hrs. 659.1 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
2" asphalt on 11" concrete pavement. 6" crushed stone subbase.	662.10				
Stiff, damp, very dark brown to gray, CLAY.			2		
			3	1.9	26
			4	B	
		-5	1		
	658.00		2	1.2	25
			2	B	
Gray, CLAY LOAM.	656.70				
Medium to stiff, damp, gray, SILTY LOAM.	656.00		1		
			0	1.0	23
Brown, wet, fine grained, SAND. 11% passing #200 sieve.			1	B	
10% passing #200 sieve.	653.50	-10	1		
			1	0.6	17
Medium, damp, gray, LOAM.			2	B	
	651.70				
Very stiff, damp, gray, LOAM TILL.			2		
			3	2.3	13
			15	B	
	649.20				
Very stiff, damp, gray, SILTY LOAM TILL. Weak in horizontal plane.		-15	5		
			5	2.5	17
			5	B	
	646.70				
Hard, damp, gray, CLAY LOAM TILL.			8		
			9	5.0	10
			13	B	
	644.20				
		-20	10		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Hard, damp, gray, SANDY CLAY LOAM TILL. (continued)	642.70		18	6.1	8
			20	S	
Extent of exploration.					
Benchmark: Chiseled square on headwall of culvert under IL 48, in NW quadrant of IL 48/IL 121 intersection = 662.13' elevation.		-25			
* B1 Location: 14' S and 12.5' W of existing traffic signal mast arm foundation in NW quadrant.					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2012 MAST ARM FOUNDATIONS PERSHING AND 22ND (MACON 265).GPJ Data Template DGTEMPLT.GDT Date Printed 6/7/12
Latitude W 80 deg 55.487 min Longitude N 39 deg 52.664 min Datum Job Number

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COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. N/A
Station
BORING NO. 2 SE
Station *
Offset
Ground Surface Elev. ft 663.90 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 655.9 ft
Upon Completion 659.7 ft
After 48 Hrs. 659.4 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3" topsoil.	663.60				
Hard, very moist, brown, Gravelly CLAY.					
			2		
			2	+4.5	10
			2	PP	
	659.40				
Medium to soft, very damp, gray, CLAY.		-5	1		
			1	0.5	26
			0	B	
	656.90				
Soft, damp, brown marbled gray, SILTY LOAM.			1		
	655.90		2	0.3	25
Brown, SANDY LOAM.			1	B	
	654.40				
Soft to medium, damp, gray, LOAM.		-10	1		
			1	0.5	22
			1	B	
			2		
			3	0.5	15
			4	B	
	648.90	-15	5		
Very stiff, damp, gray, CLAY LOAM TILL.			4	3.1	13
			9	B	
	646.90				
Hard, damp, gray, SANDY CLAY LOAM TILL.			6		
			12	+4.5	9
			14	PP	
	644.40				
		-20	9		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Stiff, very damp, gray, SANDY LOAM w/ small gravel. (continued)			16		17
			18		
	641.90				
Hard, damp, gray, SANDY CLAY TILL.			12		
			23	9.7	9
			32	B	
	640.40				
Extent of exploration.					
		-25			
Benchmark: Chiseled square on headwall of culvert under IL 48, in NW quadrant of IL 48/IL 121 intersection = 662.13' elevation.					
* B2 Location: 1.5' N and 8' E of existing traffic signal mast arm foundation in SE quadrant.					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude W 80 deg 55.487 min Longitude N 39 deg 52.651 min Datum Job Number

FILE NAME = c:\pw_work\pwidot\steffenmk\d0247536\D774510-sht-ts.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL BORING LOGS
INTERSECTION OF PERSHING AVE & 22nd STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	126N	Macon	39	27

CONTRACT NO. 74510
ILLINOIS FED. AID PROJECT