Contract #76267

F.A.P. RTE.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
592	121-1R, 121HVB	ST. CLAIR	239	156
F.H.W.A. REGION 7	ILLINOIS	FED. AID PROJECT		

SHEET NO.: 20

SHEETS: 23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION

District Eight Materials

Sheet 1 of 3

Date 12/8/00 & 12/11/00

PROJECT FAP 592
ROUTE Illinois Route 157
SECTION 121RS-2
COUNTY St. Clair County
STRUCTURE NO.

DESCRIPTION Alternate Route 5
LOCATION Cahokia, Illinois
DRILL METHOD CME 750 Drill Rig/Hollow stem auger (4.25)
HAMMER TYPE Cathead Hammer

Drilled By Harriss Drillings Svcs
Checked By SCI

Boring No.: B-109
Station: 5028+76
Offset: 29.5 RT.
Ground Surface El. 407.9 ft.

Surface Water Elevation:
Groundwater Elevation:
First Encountered: 394.4
Upon Completion:
After 24 Hours: 398.5/Collapse @ 397.1
Mud Rotary Start @ Elevation: 392.9

Depth (ft) El.	N	Qu t/sf	W %	Soil Description
407.65				3" TOPSOIL
				Dark brown high plastic CLAY (A-7)
	2	3.5 P		
	5		30	
405.9				
	6	1.75 P		Gray and brown high plastic CLAY (A-7)
				LL-81
				PL-30
				PI-49
	2			
	3	1.30 B	38	
5	5			
401.4				
	2			Gray and brown low plastic SILTY CLAY
	2	0.85 B	43	(A-6)
	2			
398.9				
	2			Gray and brown high plastic CLAY (A-7)
	2	0.39 B	34	
10	3			
	2			
	3	0.65 B	35	
395.9				
	8			Brown, loose, fine to medium SAND (A-3)
				w/ trace gravel
GW 394.4				
	0			
	2			
15	4			
391.9				
	5			Brown, medium dense, fine to medium SAND
	7			(A-3)
	10			
	6			
	10			
20	12			
	7			
	13			
	15			

Depth (ft) El.	N	Qu t/sf	W %	Soil Description
384.9				Brown, very dense, fine SAND (A-3)
	16			
	31			
25	54			
382.4				Gray, medium dense, fine SAND (A-3)
	12			
	12			
	14			
379.9				Brown, medium dense, fine to coarse SAND
	8			w/ little gravel (A-1-b)
	8			
30	7			
375.9				Gray, dense, fine SAND (A-3)
	10			
	17			
35	21			
370.9				Gray, loose, fine SAND (A-3)
	4			
	3			
40	5			
366.4				Gray, medium dense, fine to medium SAND
	11			(A-3)
	15			
45	13			

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless determined by laboratory analysis

ILLINOIS DEPARTMENT OF TRANSPORTATION

District Eight Materials

Sheet 2 of 3

Date 12/8/00 & 12/11/00

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ROUTE Illinois Route 157
SECTION 121RS-2
COUNTY St. Clair County
STRUCTURE NO.

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LOCATION Cahokia, Illinois
DRILL METHOD CME 750 Drill Rig/Hollow stem auger (4.25)
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Ground Surface El. 407.9 ft.

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Mud Rotary Start @ Elevation: 392.9

Depth (ft) El.	N	Qu t/sf	W %	Soil Description
				COAL noted in washed cuttings from 45'-48.5'
	11			
	11			
50	8			
355.9				
				Gray, dense, fine SAND (A-3)
	8			
	14			
55	24			
350.9				
				Gray, very dense, fine SAND (A-3)
	9			
	26			
60	43			
346.4				
				Gray, dense, fine to medium SAND
				(A-3)
	11			
	16			
65	15			
				GRAVELY per drillers observation from 67'-68.5'

Depth (ft) El.	N	Qu t/sf	W %	Soil Description
339.9				GRAVEL (A-1)
	96			
	60			Loosing "mud" per driller's
70	35			observation from 67.5'-72'
335.9				
				Gray, very dense, fine to coarse SAND
				w/ little gravel (A-1-b)
	7			
	15			
75	36			
				GRAVELY per driller's observation from 75'-80'
327.9	80			
				Gray, medium dense, fine to coarse SAND
				w/ trace gravel (A-3)
	5			
	10			
85	13			
90				

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
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W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless determined by laboratory analysis

SOIL BORING LOGS
F.A.P. 592 (IL Rte. 157) OVER
UNION PACIFIC RAILROAD
SECTION 121-1R, 121HVB
ST. CLAIR COUNTY
STATION 5029+64.85
STRUCTURE NO. 082-0303

BLOCK NAME
NORTH6 PARELEY SETATPAR FLOYNOTL

PLOT DATE = 03/21/2007
FILE NAME = H:\P\2005\Microstat\Struct\0303borings\h1.dgn
PLOT SCALE = 1.0000 IN / IN.
USER NAME = $USER$