Christian County Bridge
Greenwood Township
Existing Structure No. 011-3247
Project #181-2979

ATLAS SOILS, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: September 17, 2009
BORING TECH.: M. Malisia
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2
Station: 15 ft. W. of W.
Abutment; 11 ft. N. of Centerline
SURFACE ELEV.: 612.3 ft.

GROUNDWATER ELEV.
COMP.: -10.1 ft.; Bridge @ -16.3 ft.
AFTER 24 HRS.: --

	N Value	Qu (tsf)	W (%)	REC (%)
0				
SILTY LOAM (ML), Dark Brown, Dry, Medium Stiff		P		
	6	1.0	15.9	20
		P		
SILTY CLAY LOAM (CL), Dark Brown, Dry to Moist, Medium Stiff 5	3	2.0	18.5	85
		P		
SILTY CLAY (CL), Dark Brown, Moist, Stiff, Trace of Sand	3	3.0	17.7	95
Medium Stiff		P		
10	5	1.75	19.3	100
		P		
SILTY CLAY LOAM (CL), Gray, Reddish-Brown, Mottled, Moist to Wet, Soil, Trace of Sand	2	0.5	23.0	95
SAND (SP), Light Brown, Saturated, Very Loose, Fine, Trace of Fines 15	1	NP	24.0	50
		P		
SILTY LOAM (ML), Gray, Wet, Very Soft, Trace of Sand	1	0.75	28.6	55
SAND (SP), Gray, Saturated, Very Loose, Fine, Trace of Clay 20	1	NP	29.7	100

	N Value	Qu (tsf)	W (%)	REC (%)
20				
Loose				
SILTY CLAY (CL), Gray, Dry to Moist, Hard, Trace of Sand	7	NP	17.2	80
		P		
25	43	>4.5	13.4	85
Very Stiff		P		
	22	>4.5	14.2	70
		P		
30	14	4.0	16.4	85
		P		
CLAY (CL), Gray, Moist, Stiff, Trace of Sand				
35	9	2.5	15.8	90
SAND (SW), Gray, Saturated, Very Dense, Fine to Medium Coarse				
40	100/10"	NP	12.2	90

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

RQD: Rock Quality Determination

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40				
SAND (SW), Gray, Saturated, Very Dense, Fine to Medium Coarse				
SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand		P		
45	36	>4.5	12.2	100
		P		
50	26	>4.5	12.5	100
		P		
SILTY LOAM TILL (ML), Gray, Dry to Moist, Very Stiff				
55	21	>4.5	16.3	80
		P		
SILTY CLAY TILL (CL), Gray, Dry to Moist, Stiff, Trace of Sand 60	13	3.5	23.5	80

	N Value	Qu (tsf)	W (%)	REC (%)
60				
Very Stiff, Trace of Gravel		P		
65	24	>4.5	13.4	100
		P		
70	28	>4.6	14.3	95
Hard		P		
75	35	>4.5	11.1	100
		P		
80	37	>4.5	12.8	95
End of Exploration at -80.0 ft.				

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80				
Notes: 1) Boring backfilled with soil cuttings upon completion of final groundwater measurement. 2) Creek flowline at approximate elevation of 601.1 ft. at time of boring activities. 3) Elevations based on local benchmark provided by Christian County Highway Dept.				
85				
90				
95				
100				

	N Value	Qu (tsf)	W (%)	REC (%)
100				
105				
110				
115				
120				

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GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
3500 CONSTITUTION DRIVE
SPRINGFIELD, ILLINOIS 62711-7007
PROFESSIONAL DESIGN FIRM NO. 184-0073
PROFESSIONAL & STRUCTURAL ENGINEERING CORPORATION
(217) 793-3848, (217) 793-3237 (FAX) E-MAIL - mail@greenebradford.com

FILE NAME = J:\09029\CADD\CADsheets\SN 011-3417\08104118-09029-Sht-Boring.dgn	USER NAME = amandah	DESIGNED - NIEWINSKI	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BORING LOG NO. 2 STRUCTURE NO. 011-3417**	T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.1 ' / in.	DRAWN - VERENSKI	REVISED -			307A	08-04118-00-BR	CHRISTIAN	26	18
	PLOT DATE = 5/3/2011	CHECKED - TRELLO	REVISED -		SHEET NO. 10 OF 10 SHEETS				CONTRACT NO. 93567	
								ILLINOIS	FED. AID PROJECT: BROS-0021 (178)	

PLOT DRIVER = V8.PDF.pltcfg