Christian County Bridge
Buckhart Township, Bridge #12,
County Road 2400N
Project # 181-0468

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

DATE: March 13 - 14, 2008
BORING TECH.: A. Staggemeyer
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2
STATION: 9+66, 4.5' LT
SURFACE ELEV.: 100.0 ft.

GROUNDWATER ELEV.
COMP.: - 24.9 ft.
AFTER 24 HRS.: --

Depth	Description	N Value	Qu (tsf)	W (%)	REC (%)
0	Oil and Chip Roadway				
	CLAY LOAM (CL), Dark Brown, Moist, Soft		B		
		3	1.62	17.4	55
			B		
5		3	0.61	19.6	55
	SILTY CLAY (CL), Black, Moist, Soft		B		
		4	1.09	26.1	75
	Gray, Reddish Brown, Mottled		B		
10		4	0.77	25.5	35
			B		
		2	0.61	26.5	100
	SANDY CLAY LOAM (CL), Gray, Moist, Soft, Trace of Wood		B		
15		2	0.48	27.6	95
	SILTY CLAY (CL), Gray, Moist to Wet, Soft		B		
		4	1.21	20.3	100
	CLAY TILL (CL), Very Stiff, (Presumed)				
20		19	NS	--	0

Depth	Description	N Value	Qu (tsf)	W (%)	REC (%)
20	Hard				
		43	NS	--	0
			B		
25	CLAY TILL (CL), Brown, Dry to Moist, Hard, Trace of Sand and Gravel	20	>5.05	11.3	90
			B		
	Gray	21	>5.05	12.0	100
			S		
30		76	>5.05	10.4	100
	Sand Seam, Gray, Moist, Very Dense, Fine	100/10"	NP	--	100
35					
	Possible Thin Gravel Layer				
	Small Sand Seams/Layers				
40		84	NP	--	100

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

RQD: Rock Quality Determination

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

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SURFACE ELEV.: 100.0 ft.

GROUNDWATER ELEV.
COMP.: - 24.9 ft.
AFTER 24 HRS.: --

Depth	Description	N Value	Qu (tsf)	W (%)	REC (%)
40	CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand and Gravel				
45		70	NP	--	100
	End of Exploration at 45.0 ft.				
50					
55					
60					

Depth	Description	N Value	Qu (tsf)	W (%)	REC (%)
60					
65					
70					
75					
80					

Notes:
1) Borehole backfilled with soil cuttings upon completion.
2) Local benchmark equal to 100.0 ft. provided by county highway department was used to determine elevations.
3) Center of bridge was assigned a station of 10+00 with stationing increasing to the east.
4) Creek flowline elevation = 91.2 ft. at the time of investigation.

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