Christian County Bridge
Stonington Township
Existing Structure No. 011-3172
Project #181-2979

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

DATE: October 5, 2009
BORING TECH.: T. Bradburn
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 1 Station: 50 ft. S. of Chiseled "X" in N.W. Wingwall, 20 ft. E. of Centerline SURFACE ELEV.: 603.1 ft.	N Value	Qu (tsf)	W (%)	REC (%)
0 SILTY CLAY (CL), Brown, Dry, Soft				
	2	–	10.0	20
Gray, Reddish-Brown & Black, Mottled, Moist, Few Sand, Trace of Gravel		P		
5	2	0.5	10.3	65
SILTY LOAM (ML), Gray, Moist to Wet, Soft		P		
	2	0.75	20.5	65
		P		
10	2	0.5	32.3	65
SILT (ML), Gray, Saturated, Stiff				
	14	NP	15.1	90
		P		
CLAY (CL), Gray, Moist, Stiff, Trace of Gravel 15	5	1.75	9.4	90
SILTY CLAY LOAM TILL (CL), Gray, Moist, Stiff, Trace of Sand & Gravel		P		
	12	3.5	16.8	100
SILTY CLAY LOAM (CL), Gray, Wet, Medium Stiff, Trace of Gravel 20		P		
	9	0.5	16.7	95

GROUNDWATER ELEV. COMP.: -4.7 ft.; Bridge @ -25.5 ft. AFTER 24 HRS.: -2.2 ft.; Bridge @ -16.4 ft.	N Value	Qu (tsf)	W (%)	REC (%)
20				
SILTY CLAY LOAM TILL (CL), Gray, Dry to Moist, Hard		P		
	16	>4.5	12.2	70
SILT (ML), Gray, Dry, Very Stiff				
25	25	NP	17.5	95
	23	NP	12.6	95
		P		
SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Few Sand, Trace of Gravel 30	50	>4.5	19.0	95
SILTY LOAM (ML), Gray, Dry to Moist, Hard		P		
35	43	>4.5	23.1	100
Brown, Moist, Stiff		P		
40	12	2.25	30.4	100

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 SILTY LOAM (ML), Brown, Moist, Stiff				
Wet, Trace of Sand & Gravel		P		
45	33	1.25	28.6	100
SILTY CLAY TILL (CL), Brown, Dry to Moist, Hard, Trace of Sand & Gravel 50	54	>4.5	25.7	100
		P		
SILTY LOAM TILL (ML), Gray, Dry to Moist, Hard, Few Sand	100/7"	>4.5	14.3	60
End of Exploration at -54.1 ft. 55				
60				

GROUNDWATER ELEV. COMP.: -4.7 ft.; Bridge @ -25.5 ft. AFTER 24 HRS.: -2.2 ft.; Bridge @ -16.4 ft.	N Value	Qu (tsf)	W (%)	REC (%)
60				
65				
70				
75				
80				

Notes:
1) Borehole backfilled with soil cuttings upon completion of final groundwater measurement.
2) Surface water at approximate 599.7 ft. elevation at time of boring activities.
3) Elevations based on local benchmark in NW wingwall provided by Christian County Highway Department.

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FILENAME: I:\jobs\christiancounty\166 tr 126 over buckhart creek\cadd\cadd sheets\011-3418-000000.dgn

USER NAME = dheberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
PLOT SCALE = 0.1.0000 '' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 8/25/11	REVISED

WHKS & co.
ENGINEERING

7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
TR 216 OVER BUCKHART CREEK

SCALE: | SHEET NO. 8 OF 9 SHEETS | ℄ STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	12
S.N. - 011-3418		CONTRACT 93559		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		