Surface Elevation: 411.90 | Completion Date: 4/12/13
Datum: msl | Latitude: 14035285.40 | Longitude: 2446907.96

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES
	Medium dense, gray, medium to coarse-grained SAND, trace gravel - SP *(continued)*		
105			
	rough drilling		
110		8-10-11	SS23
115			
120		10-15-12	SS24
125			
130		16-16-10	SS25
135	Hard, gray, aphantic to finely crystalline, massive bedded, slightly weathered to fresh LIMESTONE	100% 96%	NQ1
	with shale partings to 148 feet		
	unconfined compressive strength = 22,624 psi (3,258 ksf)		
140		100% 76%	NQ2
145	unconfined compressive strength = 29,532 psi (4,253 ksf)		
	unconfined compressive strength = 26,669 psi (3,840 ksf)		
	highly fractured - 2 inches		

GRAPHIC LOG

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - SV (0.5, 1.0, 1.5, 2.0, 2.5)

STANDARD PENETRATION RESISTANCE ▲ N-VALUE (BLOWS PER FOOT) (ASTM D 1586)

WATER CONTENT, % PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND/OR THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

LOG OF BORING 2002 WL J019319.01 - POPLAR STREET BRIDGE.GPJ 00 CLONE ME.GPJ

GROUNDWATER DATA

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

__ AUGER 4 1/4" HOLLOW STEM
WASHBORING FROM 20 FEET
BF DRILLER DLD LOGGER
CME 550X DRILL RIG
HAMMER TYPE Auto
HAMMER EFFICIENCY 84 %

REMARKS:
Sta. 48+79.46
99.24' RT.

Drawn by: BJS	Checked by: CKK	App'vd. by: FC
Date: 4/19/13	Date: 1/9/15	Date: 1/9/15

GEOTECHNOLOGY INC FROM THE GROUND UP

Poplar Street Bridge Widening
St. Louis, Missouri to East St. Louis, Illinois

CONTINUATION OF LOG OF BORING: I-5

Project No. J019319.01

Surface Elevation: 411.90 | Completion Date: 4/12/13
Datum: msl | Latitude: 14035285.40 | Longitude: 2446907.96

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES
	Hard, gray, aphantic to finely crystalline, massive bedded, slightly weathered to fresh LIMESTONE *(continued)*		
	unconfined compressive strength = 28,434 psi (4,094 ksf)	100% 92%	NQ3
155	chert seam - 2 inches		
	chert layer - 4 inches		
	unconfined compressive strength = 35,704 psi (5,141 ksf)		
160		100% 67%	NQ4
	Boring terminated at 161.0 feet.		
165			
170			
175			
180			
185			
190			
195			

GRAPHIC LOG

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - SV (0.5, 1.0, 1.5, 2.0, 2.5)

STANDARD PENETRATION RESISTANCE ▲ N-VALUE (BLOWS PER FOOT) (ASTM D 1586)

WATER CONTENT, % PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND/OR THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

LOG OF BORING 2002 WL J019319.01 - POPLAR STREET BRIDGE.GPJ 00 CLONE ME.GPJ

GROUNDWATER DATA

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

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HAMMER TYPE Auto
HAMMER EFFICIENCY 84 %

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GEOTECHNOLOGY INC FROM THE GROUND UP

Poplar Street Bridge Widening
St. Louis, Missouri to East St. Louis, Illinois

CONTINUATION OF LOG OF BORING: I-5

Project No. J019319.01

FOR INFORMATION ONLY

LICENSED STRUCTURAL ENGINEER STEPHEN E. ALSBURY 081-0281 STATE OF ILLINOIS
EXPIRES 11-30-16

DATE
12/1/2015
DATE PREPARED

ROUTE	STATE
I-64	IL
DISTRICT	SHEET NO.
STL	56
COUNTY	
ST. CLAIR	
JOB NO.	
J612377C/J612377D	
CONTRACT ID.	
–	
PROJECT NO.	
–	
BRIDGE NO.	
082-0005	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ABNA
4140 Lindell Boulevard
St. Louis, MO 63104
314-454-0222
Certificate of Authority: 001507

BORING DATA

Note:
For location of borings, see Sheet 1.

Detailed Nov 2015
Checked Nov 2015

Note: This drawing is not to scale. Follow dimensions.

REV.

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