Surface Elevation: 411.99 | Completion Date: 3/22/13
Datum: msl | Latitude: 14035275.09 | Longitude: 2446984.93

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES
	Dense, gray, fine-grained SAND - SP *(continued)*		
105	Medium dense to dense, gray, medium-grained SAND, trace silt and gravel - (SP)		
		12-13-11	SS23
110	rough drilling		
115			
120	rough drilling	25-18-16	SS24
125			
130	rough drilling	7-8-7	SS25
	Core loss - possible boulders		
135	Hard, gray, aphanitic to finely crystalline, thin to thick bedded, slightly weathered to fresh LIMESTONE highly fractured - 3.5 inches gray shale seam - 2.5 inches unconfined compressive strength = 32,475 psi (4,676 ksf)	56% 0%	NQ1
		100% 79%	NQ2
140	chert nodule - 1.5 inches unconfined compressive strength = 26,998 psi (3,888 ksf)	100% 98%	NQ3
145	unconfined compressive strength = 27,410 psi (3,947 ksf) shale seam - 0.25 inch		

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 21 FEET
BF DRILLER DLD LOGGER
CME 550X DRILL RIG
HAMMER TYPE Auto
HAMMER EFFICIENCY 84 %

REMARKS:
Sta. 49+56.18
87.18' RT.

Drawn by: AGB	Checked by: CKK	App'vd. by: FC
Date: 3/29/13	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-6

Project No. J019319.01

Surface Elevation: 411.99 | Completion Date: 3/22/13
Datum: msl | Latitude: 14035275.09 | Longitude: 2446984.93

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES
	Hard, gray, aphanitic to finely crystalline, thin to thick bedded, slightly weathered to fresh LIMESTONE *(continued)* shale seam - 1 inch unconfined compressive strength = 32,182 psi (4,634 ksf)	100% 92%	NQ4
155	chert seam - 2.5 inches unconfined compressive strength = 26,467 psi (3,811 ksf)	100% 90%	NQ5
		88% 88%	NQ6
160	Core loss - 3 inches Boring terminated at 160.5 feet		
165			
170			
175			
180			
185			
190			
195			

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
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HAMMER TYPE Auto
HAMMER EFFICIENCY 84 %

REMARKS:
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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-6

Project No. J019319.01

FOR INFORMATION ONLY

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

DATE	DESCRIPTION
12/1/2015	

DATE PREPARED

ROUTE	STATE
I-64	IL
DISTRICT	SHEET NO.
STL	58

COUNTY: ST. CLAIR
JOB NO.: J612377C/J612377D
CONTRACT ID.: –
PROJECT NO.: –
BRIDGE NO.: 082-0005

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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.