

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG B-20 (Page 1 of 4)

ROUTE FAI-899 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 81-2, 82R LOCATION SEC. 18, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger and Mud Rotary HAMMER TYPE Automatic Hammer

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	SOIL CLASSIFICATION				SURFACE WATER ELEV.	STREAM BED ELEV.	GROUNDWATER ELEV.	FIRST ENCOUNTER	UPON COMPLETION	AFTER	
						D	B	U	M							
082-0377	NA	B-20	6+11	47.00ft Right	415.80					Unknown	Unknown					
Stiff, dark brown, SILTY CLAY Started Mud Rotary Drilling @ 20' 395.30 Medium dense, brown, FINE GRAINED SAND with layer of brown silt at 21.5' to 21.75' 2 5 1.8 23 8 P 412.80 Loose to medium dense, brown, SANDY LOAM 3 5 13 5 5 4 5 11 7 407.80 Loose, brown, SANDY LOAM with seams of gray, silt and Fe staining at 11' to 15' 2 4 8 5 -10 4 4 12 5 2 3 13 4 -15 400.30 Medium stiff, gray, SILTY LOAM with Fe staining 2 2 1.0 27 4 P 397.80 Medium stiff, brown/gray, SILTY CLAY with sand and Fe staining 3 2 1.3 4 S -20																

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 137 (Rev. 8-99)

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						D	B	U	M							
082-0377	NA	B-20	6+11	47.00ft Right	415.80					Unknown	Unknown					
Loose, gray, SANDY LOAM (continued) 73.80 Loose, gray, SANDY LOAM See Attached Gradation Test Results 4 4 4 4 -5 388.80 Medium dense to very dense, gray, FINE GRAINED SAND, Gravel @ 55', MEDIUM GRAINED SAND @ 56' to 60' and 67' to 72'. Laminations of black organic material @ 62' to 90' (continued) See Attached Gradation Test Results 5 10 12 -20 315.80 Very dense, gray, FINE GRAINED SAND and lenses of light gray, weathered limestone 16 18 20 -28 40 299.80 GRAVEL, BOULDERS (glacial outwash) 296.90 -120																

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ZROKA
Engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

3-31-2010

BORING LOGS 1
STRUCTURE NO. 082-0377

SHEET NO. 42	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
44 SHEETS	64	82-1-2HB	ST. CLAIR	345	249
CONTRACT NO. 76C49					
ILLINOIS FED. AID PROJECT					