

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = Jjolliff
PLOT SCALE = *SCALE*
PLOT DATE = 4/14/2010
DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 405.3
	DEPTH	BLOWS/6"	
1.0P	3.5	2-3-2	Dark Gray, Silt, Moist (FILL), Little Roots, Grass, Gravel Elev. 404.8
1.0P	5.5		
0.75P	8.5	1-2-3	Dark Gray, Lean Clay, Moist (FILL), Little Roots Elev. 401.8
	10.5		
	13.5	3-5-4	Gray to Brown to Dark Gray, Firm, Lean CLAY, Moist, (CL) Elev. 393.8
0.25P	18.5	2-2-6	Dark Gray, Loose, Fine SAND, Wet, (SP) Elev. 386.8
	23.5	6-12-13	Dark Gray, Loose, SILT, Wet, (ML), Little Fine Sand Elev. 381.8
	28.5	9-13-12	
	33.5	5-7-9	
	38.5	10-4-3	
	43.5	10-14-16	Dark Gray, Medium Dense, Fine SAND, Wet, (SP) Few to Trace Fine Gravel
	48.5	12-15-15	
	53.5	11-13-15	
	58.5	14-25-24	Elev. 349.3
	63.5	11-16-19	
	68.5	9-12-16	Dark Gray, Dense to Medium Dense, Fine to Medium SAND, Wet, (SP), Trace to Little Fine Gravel
	73.5	16-14-19	
	78.5	1-1-6	Elev. 326.8
	83.5	19-24-24	
	88.5	19-30-35	Dark Gray, Loose to Very Dense, Fine to Coarse SAND, Wet, (SW), Little Fine to Coarse Gravel
	93.5	35-50-64	
	98.5	28-29-23	Elev. 306.8
	103.5	50/5"	
	108.5	42-66-50/0"	Dark Gray, Very Dense, Fine to Coarse GRAVEL, Wet, (GW), Little Fine to Coarse Sand, Trace Limestone Pieces
			Elev. 295.3
	ROCK CORE		
	DEPTH	REC%	RQD%
900.5L	115	100	83
	120	100	92
398.7L	125	100	97
	130	100	95
387.3L	135	100	100
	140	100	90
229.0L	145	100	88
	150	100	93
455.8L	155	100	98
	160	100	93

Boring Number ILC-11
Pier 23
Sta. 127+81.70, 44.86' Lt.

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 405.6
	DEPTH	BLOWS/6"	
			(Note: The stratigraphy described on this boring log is based on the drill cuttings observed at the ground surface and the action of the drilling tools and is only approximate.)
			Grayish-brown SAND, some clay and silt layers
			- rough drilling occurring intermittently from 82.0 to 100.0 ft.
			- very rough drilling from 100.0 to 110.0 ft., probable boulders.
			Elev. 295.6
	ROCK CORE		
	DEPTH	REC%	RQD%
	115	100	82
	120	100	70
	125	100	77
	130	100	80
	135	100	83
	140	100	73
			Elev. 268.0
			DOLOMITE, gray, hard, finely crystalline, medium bedded, slightly weathered - highly fractured from 138.2 to 140.0 ft. - 1.0" gray, soft, shale seam at 138.6 ft. - 0.12" gray, soft, shale seam at 138.8 ft. Elev. 265.6

Boring Number ILC-11A
Pier 23
Sta. 127+75.10', 44.00' Lt.

Note: For Typical Boring and General Notes, see Sheet No. 9.