

QU (TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 421.9
	DEPTH	BLOWS/6"	
1.5P	3.5	8-16-17	Brown, Dense, Medium SAND, Moist, (SW)
	8		
1.5P	13		Elev. 408.9
	18.5	3-3-3	Brown, Dense to Loose, Fine SAND, Moist, (SP)
	23.5	2-3-5	
	28.5	7-5-9	Elev. 393.4
	33.5	2-6-2	Brown, Medium Dense, Medium to Coarse SAND, Wet, (SW) Elev. 388.4
	38.5	9-10-11	Brown, Loose to Medium Dense, Fine SAND, Wet, (SP) - gray lean clay seam at 34.5 ft.
	43.5	17-16-16	Elev. 378.9
	48.5	15-16-20	Gray, Dense, Fine SAND, Wet, (SP) Elev. 373.4
	53.5	12-13-14	Gray, Dense to Medium Dense, Medium to Coarse SAND, Wet, (SW), Few Gravel
	58.5	11-14-14	
	63.5	10-11-13	Elev. 358.4
	68.5	15-19-33	Gray, Medium to Very Dense, Medium SAND, Wet, (SP) - fine sand below 69.5 ft.
	73.5	14-16-16	Elev. 348.4
	78.5	18-22-28	Gray, Dense to Very Dense, Medium to Coarse SAND, Wet, (SW), Trace Gravel
	83.5	21-23-25	
	88.5	10-11-14	Elev. 333.4
	93.5	20-37-33	Black to Gray, Medium to Very Dense, Fine to Medium SAND, Wet, (SP)
	98.5	19-50/4"	Elev. 323.4
	103.5	47-22-21	Gray, Very Dense, Medium to Coarse SAND, Wet, (SW), Few Gravel Elev. 318.4
	108.5	20-24-22	Gray, Dense, Coarse SAND, Wet, (SP), Few Gravel Elev. 313.4
	113.5	22-27-30	Gray, Dense to Very Dense, Coarse SAND, (SW), Some Gravel
	118.5	37-40-50	
	123.5	50/1"	
ROCK CORE			Elev. 298.4
	DEPTH	REC%	ROD%
325.4L	129	97	83
389.3L	134	98	90
228.1L	139	98	95
	144	100	100
578.3L	149	100	97
	154	97	97
1047.7L	159	100	97
	164	100	95
160.8L	169	100	98
396.9L	174	100	90
	179	100	87
926.1L	184	100	87
	189	100	93
	194	100	62

Boring No. EAC-2
Anchor Pier 13
Sta. 102+16.29, 40.33' Rt.

QU (TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 420.7
	DEPTH	BLOWS/6"	
	3.5	7-11-12	Brown, Medium Dense, Medium to Fine SAND, Moist, (SP)
	8.5	4-8-9	
	13.5	4-4-4	Elev. 408.7
	18.5	3-4-4	Light Brown to Brown, Loose, Fine SAND, Moist to Wet, (SP), Trace Organics
	23.5	3-2-4	
	28.5	6-6-6	Elev. 393.7
	33.5	4-5-6	Brown to Gray, Medium Dense, Fine SAND, Wet, (SP) - 0.5" Layer of Organic Material at 35.0'
0.25P	38.5	2-2-2	Elev. 382.2
0.5P	43		Gray, Very Soft, Fat CLAY, Moist, (CH) Elev. 377.7
1.0P	48		Gray, Soft, Lean Sandy CLAY, Moist, (CL) Elev. 372.7
	53.5	18-30-26	Gray, Firm, Fat Sandy CLAY, Moist, (CH) Elev. 367.2
	58.5	8-13-15	Gray, Very Dense, Fine Silty SAND, Wet, (SM) Elev. 362.2
	63.5	6-18-31	Gray, Medium Dense to Dense, Fine to Medium SAND, Wet, (SW), Trace to Some Gravel Elev. 353.7
	68.5	16-15-14	Gray, Medium Dense, Medium Silty SAND, Wet, (SM), Trace Gravel Elev. 348.7
	73.5	14-14-17	Gray, Dense, Fine to Medium SAND, Wet, (SW), Trace Gravel
	78.5	16-16-20	
	88.5	16-22-18	Elev. 333.7 Gray, Dense, Fine Silty SAND, Wet, (SM) Elev. 325.7
	98.5	14-25-41	Gravel- Cobbles - rough drilling Elev. 322.7
	108.5	24-19-15	Gray, Very Dense, Medium SAND, Wet, (SP) - cobble at 100.0 ft. Elev. 317.7
	118.5	31-28-23	Gravel- Cobbles - rough drilling Elev. 316.7
	126	100	53
	131	100	87
	136	98	98
	141	100	95
	146	100	100
	151	100	98
	156	100	100
	161	100	100
	166	100	98
	171	100	100
	176	100	80
	181	100	88
	186	100	77
	191	100	87
	194	100	75

Boring No. EA-3
Anchor Pier 13
Sta. 102+35.52, 0.17' Rt.

QU (TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 420.1
	DEPTH	BLOWS/6"	
	3.5	5-7-7	Brown, Medium Dense, Medium to Fine SAND, Moist, (SP)
	8.5	4-7-7	
	13.5	5-8-8	Brown, Medium Dense, Medium to Fine SAND, Moist, (SP)
	18.5	3-5-9	
	23.5	4-6-9	Elev. 388.1
	28.5	4-5-7	Dark Gray to Gray, Loose to Medium Dense, Fine Silty SAND, Wet, (SM), Trace Wood
	33.5	4-4-6	
	38.5	4-7-6	Elev. 376.1
0.5P	43.5	5-3-3	Gray, Soft, Fat CLAY, Moist, (CH) Elev. 372.1
1.0P	48		Dark Gray, Stiff, Fine Sandy SILT, (ML) Elev. 367.1
	53		Gray, Medium Dense, Fine SAND, Wet, (SP) Elev. 361.6
	58.5	7-8-7	Gray, Medium Dense, Medium to Fine SAND, Wet, (SW), Trace Fine Gravel Elev. 356.6
	63.5	16-20-22	Gray, Dense to Medium Dense, Medium to Fine SAND, Wet, (SP)
	68.5	18-19-21	
	73.5	9-12-15	Elev. 341.6
	78.5	7-12-15	Gray, Medium Dense, Medium to Fine SAND, (SW) Elev. 336.6
	83.5	10-16-13	Dark Gray, Medium to Very Dense, Fine SAND, Wet, (SP), Trace Organics, Clay - rough drilling from 94.5 to 95.0 and 98.0 to 98.5 ft., gravel, cobbles and boulders
	93.5	16-38-50/0"	
	103.5	16-17-17	Elev. 316.6
	113.5	21-34-42	Gray, Dense, Coarse to Fine SAND, Wet, (SW), Little Fine Gravel Elev. 306.6
	124.5	100	39
	129.5	100	100
	134.5	100	98
	139.5	100	95
	144.5	100	100
	149.5	100	68
	154.5	100	98
	159.5	100	100
	164.5	100	85
	169.5	100	100
	174.5	100	97
	179.5	100	97
	184.5	100	92
	189.5	100	88
	194.5	95	80

Boring No. EA-4
Anchor Pier 13
Sta. 102+49.80, 41.16' Lt.

Detailed JUL 2009
Checked JUL 2009

Boring No. EAC-2
Anchor Pier 13
Sta. 102+16.29, 40.33' Rt.

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

Note:
For Typical Boring and General Notes, see Sheet No. 9.
Sheet No. 10 of 152

BORING DATA (2 OF 7)

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jlliff	
PLOT SCALE = *SCALE*	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
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	