

FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	870	706
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**W** Wang Engineering, INC.  
 Consulting Geotechnical and Environmental Engineers  
 wangeng@wveng.com  
 100 Fairbank Street  
 Addison, IL 60101  
 Telephone: 630 458-0700  
 Fax: 630 458-0900

**BORING LOG HL-01**  
 WEI Job No.: 665-05-03  
 Client: HNTB Corporation  
 Project: IL 394 (FAP 94) IDOT D-91-012-01  
 Location: Sections 25&26, T36N, R14E, Cook Co.

Datum: NGVD  
 Elevation: 183.77 m  
 North: 548375.93 m  
 East: 352483.73 m  
 Station: 441 + 118.039  
 Offset: 24.308 LT

Profile Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth (m)	Sample No.	N Value (Blows/30 mm)	Cu (kPa)	Moisture Content (%)	Profile Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth (m)	Sample No.	N Value (Blows/30 mm)	Cu (kPa)	Moisture Content (%)
183.77	Medium stiff, black CLAY LOAM ---TOPSOIL---	0.0					183.77	Medium stiff, black CLAY LOAM ---TOPSOIL---	0.0				
183.3	Medium dense, brown, fine SAND	0.5	1	3	71	17	183.3	Medium dense, brown SAND	0.5	1	4	6	26
182.4	Hard, brown and gray CLAY to SILTY CLAY	1.0	2	12	NP	12	182.4	Hard, brown and gray CLAY	1.0	2	6	10	17
181.5	Very dense, brown SILT	1.5	3	9	240	19	181.5	Medium stiff to stiff, gray CLAY	1.5	3	5	7	21
180.6	Very stiff to hard, brown CLAY to SILTY CLAY	2.0	4	8	>431	17	180.6	Stiff, gray SILTY CLAY	2.0	4	3	8	25
179.7	Stiff, gray CLAY	2.5	5	4	172	19	179.7	Loose, gray SILT	2.5	5	2	4	22
178.8		3.0	6	4	125	20	178.8	Stiff to very stiff, gray CLAY to SILTY CLAY	3.0	6	2	3	19
177.9		3.5	7	3	110	20	177.9		3.5	7	2	6	15
177.0		4.0	8	2	118	19	177.0		4.0	8	4	7	18
176.1		4.5	9	2	172	20	176.1		4.5	9	1	4	21
175.2		5.0	10	3	196	21	175.2		5.0	10	3	4	21

<b>GENERAL NOTES</b>	<b>WATER LEVEL DATA</b>
Begin Drilling: 03-31-2003 Complete Drilling: 03-31-2003 Drilling Contractor: Patrick Drilling Driller: K&J Logger: S. Patel Checked by: B. Fugiel Drilling Method: 3.25-inch ID HSA; Boring grouted upon completion	While Drilling: <input checked="" type="checkbox"/> DRY At Completion of Drilling: <input checked="" type="checkbox"/> DRY Time After Drilling: NA Depth to Water: <input checked="" type="checkbox"/> NA <small>The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.</small>

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**BORING LOG HL-02**  
 WEI Job No.: 665-05-03  
 Client: HNTB Corporation  
 Project: IL 394 (FAP 94) IDOT D-91-012-01  
 Location: Sections 25&26, T36N, R14E, Cook Co.

Datum: NGVD  
 Elevation: 183.86 m  
 North: 548322.83 m  
 East: 352481.28 m  
 Station: 440 + 975  
 Offset: 28.73 LT

Profile Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth (m)	Sample No.	N Value (Blows/30 mm)	Cu (kPa)	Moisture Content (%)	Profile Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth (m)	Sample No.	N Value (Blows/30 mm)	Cu (kPa)	Moisture Content (%)
183.86	Medium stiff, black CLAY LOAM ---TOPSOIL---	0.0					183.86	Medium stiff, black CLAY LOAM ---TOPSOIL---	0.0				
183.3	Medium dense, brown SAND	0.5	1	4	71	26	183.3	Medium dense, brown SAND	0.5	1	4	6	26
182.4	Hard, brown and gray CLAY	1.0	2	6	707	17	182.4	Hard, brown and gray CLAY	1.0	2	6	10	17
181.5	Medium stiff to stiff, gray CLAY	1.5	3	5	116	21	181.5	Medium stiff to stiff, gray CLAY	1.5	3	5	7	21
180.6	Stiff, gray SILTY CLAY	2.0	4	3	94	25	180.6	Stiff, gray SILTY CLAY	2.0	4	3	8	25
179.7	Loose, gray SILT	2.5	5	2	118	22	179.7	Loose, gray SILT	2.5	5	2	4	22
178.8	Stiff to very stiff, gray CLAY to SILTY CLAY	3.0	6	2	NP	19	178.8	Stiff to very stiff, gray CLAY to SILTY CLAY	3.0	6	2	3	19
177.9		3.5	7	2	204	15	177.9		3.5	7	2	6	15
177.0		4.0	8	4	155	18	177.0		4.0	8	4	7	18
176.1		4.5	9	1	189	21	176.1		4.5	9	1	4	21
175.2		5.0	10	3	196	21	175.2		5.0	10	3	4	21

<b>GENERAL NOTES</b>	<b>WATER LEVEL DATA</b>
Begin Drilling: 03-31-2003 Complete Drilling: 03-31-2003 Drilling Contractor: Patrick Drilling Driller: K&J Logger: S. Patel Checked by: B. Fugiel Drilling Method: 3.25-inch ID HSA; Boring grouted upon completion	While Drilling: <input checked="" type="checkbox"/> DRY At Completion of Drilling: <input checked="" type="checkbox"/> DRY Time After Drilling: NA Depth to Water: <input checked="" type="checkbox"/> NA <small>The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.</small>

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**BORING LOG HL-03**  
 WEI Job No.: 665-05-03  
 Client: HNTB Corporation  
 Project: IL 394 (FAP 94) IDOT D-91-012-01  
 Location: Sections 25&26, T36N, R14E, Cook Co.

Datum: NGVD  
 Elevation: 184.17 m  
 North: 548114.85 m  
 East: 352490.28 m  
 Station: 440 + 880  
 Offset: 25.92 LT

Profile Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth (m)	Sample No.	N Value (Blows/30 mm)	Cu (kPa)	Moisture Content (%)	Profile Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth (m)	Sample No.	N Value (Blows/30 mm)	Cu (kPa)	Moisture Content (%)
184.17	Dark gray SILTY CLAY ---TOPSOIL---	0.0					184.17	Dark gray SILTY CLAY ---TOPSOIL---	0.0				
183.8	Very stiff, brown and gray CLAY to SILTY CLAY	0.5	1	3	220	18	183.8	Very stiff, brown and gray CLAY to SILTY CLAY	0.5	1	3	7	18
183.3	Medium stiff, gray CLAY to SILTY CLAY	1.0	2	4	200	19	183.3	Medium stiff, gray CLAY to SILTY CLAY	1.0	2	4	7	19
182.8	Medium stiff, gray CLAY to SILTY CLAY	1.5	3	4	212	22	182.8	Medium stiff, gray CLAY to SILTY CLAY	1.5	3	4	7	22
182.3	Medium dense, gray SILT	2.0	4	2	220	23	182.3	Medium dense, gray SILT	2.0	4	2	8	23
181.8	Stiff, gray CLAY	2.5	5	1	94	29	181.8	Stiff, gray CLAY	2.5	5	1	4	29
181.3		3.0	6	1	94	28	181.3		3.0	6	1	2	28
180.8		3.5	7	2	NP	20	180.8		3.5	7	2	8	20
180.3		4.0	8	1	118	21	180.3		4.0	8	1	2	21
179.8		4.5	9	3	186	28	179.8		4.5	9	3	8	28
179.3		5.0	10	2	157	20	179.3		5.0	10	2	4	20

<b>GENERAL NOTES</b>	<b>WATER LEVEL DATA</b>
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-94 EAST BOUND / IL 394 SOUTH BOUND

**BORING LOGS  
 HL-01, HL-02 & HL-03**

HORIZ SCALE:  
 VERT SCALE:  
 DATE: JUL 18, 2005

DRAWN BY: LK  
 CHECKED BY: AFC

**HNTB**