| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.I. 80/94 | 2626.2-R-2 | LAKE COUNTY, INDIANA | 452 | 296 |
| | | R.I.D.NO.S | FED. AID PROJECT- | |

SHEET NO. S-64

72 SHEETS

CONTRACT NO. 62113 INDOT DES. NO. 0100987

## BORING NO. AB-14 (1 OF 2)

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

### BORING LOG AB-14

WEI Job No.: 255-08-01

Client: American Consulting Engineers
Project: FAI 80/94, I-294 to US 41
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD
Elevation: 180.73 m
North: 545289.70 m
East: 367887.88 m
Station: 8+481.25
Offset: 21.98 LT

Page 1 of 2

| Elevation (m) | SOIL AND ROCK DESCRIPTION | Sample No. | N Values (blw/150 mm) | Qu (kPa) | Moisture Content (%) |
|---|---|---|---|---|---|
| 180.4 | Black SILTY LOAM --TOPSOIL-- | | | | |
| | Medium stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace cinders --FILL-- | 1 | 3 5 6 | 383 P | 16 |
| | | 2 | 1 2 2 | 55 B | 24 |
| | | 3 | 2 3 3 | 79 B | 23 |
| 178.3 | Very loose, gray, brown, and green LOAM | 4 | 2 1 2 | NP | 30 |
| 177.5 | Very loose, brown and gray SANDY LOAM | 5 | 2 1 1 | NP | 23 |
| 176.8 | Stiff to very stiff, gray CLAY | 6 | 3 4 6 | 103 B | 20 |
| | | 7 | 3 2 5 | 142 B | 20 |
| | | 8 | 3 4 5 | 196 B | 19 |
| 174.5 | Stiff to very stiff, gray SILTY CLAY | 9 | 9 8 9 | 165 S | 22 |
| | | 10 | 7 6 6 | 283 S | 21 |
| 172.2 | Medium dense, gray SILT | 11 | 4 5 5 | 103 B | 15 |
| | | 12 | 4 5 5 | NP | 23 |
| 171.0 | Stiff to very stiff, gray CLAY | 13 | 4 6 7 | 133 B | 21 |
| | | 14 | 4 5 7 | 172 B | 22 |
| | | 15 | 5 6 9 | 220 B | 22 |
| | | 16 | 5 6 9 | 157 B | 21 |

Profile | Recovery

**GENERAL NOTES**

Begin Drilling 01-11-2002 Complete Drilling 01-11-2002
Drilling Contractor TSC Drill Rig B-61
Driller G&D Logger D. Peterson Checked by B. Fugiel
Drilling Method Mud Rotary; Grouted upon completion

**WATER LEVEL DATA**

While Drilling ▽ 3.35 m
At Completion of Drilling ▽ 3.05 m
Time After Drilling - hours
Depth to Water ▽ m

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

## BORING NO. AB-14 (2 OF 2)

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

### BORING LOG AB-14

WEI Job No.: 255-08-01

Client: American Consulting Engineers
Project: FAI 80/94, I-294 to US 41
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD
Elevation: 180.73 m
North: 545289.70 m
East: 367887.88 m
Station: 8+481.25
Offset: 21.98 LT

Page 2 of 2

| Elevation (m) | SOIL AND ROCK DESCRIPTION | Sample No. | N Values (blw/150 mm) | Qu (kPa) | Moisture Content (%) |
|---|---|---|---|---|---|
| 164.9 | Very stiff to hard, gray SILTY CLAY | 17 | 9 22 32 | 558 B | 13 |
| | | 18 | 13 13 16 | 471 B | 15 |
| | | 19 | 11 12 19 | 354 B | 15 |
| | | 20 | 15 21 30 | 550 S | 14 |
| | | 21 | 13 24 31 | 479 S | 13 |
| 156.3 | Boring terminated at 24.38 m | 22 | 17 38 34 | >431 P | 12 |

Profile | Recovery

**GENERAL NOTES**

Begin Drilling 01-11-2002 Complete Drilling 01-11-2002
Drilling Contractor TSC Drill Rig B-61
Driller G&D Logger D. Peterson Checked by B. Fugiel
Drilling Method Mud Rotary; Grouted upon completion

**WATER LEVEL DATA**

While Drilling ▽ 3.35 m
At Completion of Drilling ▽ 3.05 m
Time After Drilling - hours
Depth to Water ▽ m

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

## BORING NO. AB-15 (1 OF 3)

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
100 Fairbank Street
Addison, IL 60101
Telephone: 630 458-0700
Fax: 630 458-0900

### BORING LOG AB-15

WEI Job No.: 255-08-01

Client: American Consulting Engineers
Project: FAI 80/94, I-294 to US 41
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD
Elevation: 190.86 m
North: 545294.99 m
East: 367814.75 m
Station: 8+410.56
Offset: 2.52 LT

Page 1 of 3

| Elevation (m) | SOIL AND ROCK DESCRIPTION | Sample No. | N Values (blw/150 mm) | Qu (kPa) | Moisture Content (%) |
|---|---|---|---|---|---|
| 190.4 | 229-mm thick CONCRETE --PAVEMENT-- | | | | |
| 190.4 | Medium dense, gray CRUSHED STONE --BASE COURSE-- | 1 | 13 10 9 | NP | 12 |
| | Medium dense, brown SANDY LOAM --FILL-- | 2 | 7 7 8 | NP | 18 |
| 188.9 | Medium dense, brown, medium SAND --FILL-- | 3 | 5 6 8 | NP | 5 |
| | | 4 | 5 5 6 | NP | 5 |
| | | 5 | 7 9 9 | NP | 8 |
| 186.9 | Very stiff, brown and gray CLAY LOAM --FILL-- | 6 | 4 5 5 | 263 P | 18 |
| 185.1 | Medium dense, brown, medium SAND --FILL-- | 7 | 6 9 10 | NP | 20 |
| | | 8 | 5 6 6 | NP | 24 |
| | | 9 | 7 11 13 | NP | 21 |
| 183.9 | Very stiff, brown and gray CLAY LOAM --FILL-- | 10 | 3 6 8 | 196 P | 20 |
| 183.1 | Very stiff, gray SILTY CLAY to CLAY --FILL-- | 11 | 6 7 10 | 236 S | 14 |
| | | 12 | 5 6 7 | 260 B | 22 |
| | | 13 | 3 4 5 | 314 B | 19 |
| 180.5 | Loose, black LOAM --BURIED TOPSOIL-- | 14 | 3 4 4 | NP | 32 |
| 180.0 | Very stiff, dark gray and brown CLAY LOAM | 15 | 3 3 6 | 196 B | 36 |
| 178.7 | Very stiff, brown CLAY | 16 | 3 3 5 | 212 B | 30 |
| | | 17 | 4 5 6 | 236 B | 20 |
| 176.5 | Stiff, gray SILTY CLAY | 18 | 4 4 5 | 172 B | 14 |

Profile | Recovery

**GENERAL NOTES**

Begin Drilling 01-21-2002 Complete Drilling 01-21-2002
Drilling Contractor TSC Drill Rig CME 75
Driller C&J Logger B. Fugiel Checked by N. Davis
Drilling Method Mud Rotary; Grouted after final water reading

**WATER LEVEL DATA**

While Drilling ▽ -
At Completion of Drilling ▽ -
Time After Drilling 24 hours
Depth to Water ▽ 4.88 m

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

| | |
|---|---|
| DESIGNED | BHS |
| CHECKED | KFA |
| DRAWN | CAK MJB |
| CHECKED | GSP |

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (BORMAN EXPRESSWAY)
OVER LITTLE CALUMET RIVER & N.I.C.T.D. R.O.W.

**BORING LOGS (2 OF 10)**
**SECTION 2626.2-R-1**
**LAKE COUNTY, INDIANA**
**STATION 8+470.000**
**STRUCTURE NO. I-80-1-8460 (EB & WB)**
DATE 07/04 **(016-I003 & 016-I004)**

AMERICAN CONSULTING ENGINEERS