| ROUTE NO. | SECT. | COUNTY | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| F.A.I. 74 | (72-7) R-3 | PEORIA | 621 | 1360 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT | |

CONTRACT NO. 68200

## LEGEND - RSV ENGINEERING INC. (NOW BLOOM CONSULTANTS, LLC) TEST BORING LOGS

| | |
|---|---|
| A-1 to A-7 (and subgroups) | Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification. |
| BLOWS/150mm | Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification. |
| $q_u$, kPa | Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification. |
| STRAIN, % | Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification). |
| WATER CONTENT, % | Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification. |
| Penetrometer Estimate | An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device. |
| 50 mm ST | 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification. |
| Yd | Dry unit weight of soil specimen in kilograms per cubic meter. |
| REC. | Length of sample recovered in millimeters. |

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION — BORING NO: RWB6-2
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois — STATION: 10+255
LOCATION: Retaining Wall Ramp B-6 SN 072-8559 — OFFSET: 2.0m Rt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers — SURF ELEV: 197.57

| SOIL DESCRIPTION | ELEV. | DEPTH | SAMPLE FROM - TO | REC. mm | BLOWS/ 150mm | $q_u$ kPa | STRAIN % | WATER CONTENT % |
|---|---|---|---|---|---|---|---|---|
| Very Stiff to Hard Br to Gr Silty Clay Loam A-4 | 183.46 | | 12.50-12.95 | 457 | 3 5-8 | 239 | 15 | 13 |
| | | | 13.26-13.72 | 119 | 5 14-10 | 450 | 15 | 14 |
| Medium Dense Br Sand A-1-b | 182.72 | | 14.02-14.48 | 457 | 5 10-12 | | | 21 |
| Medium Dense Gr Sandy Loam A-2-4 | 182.33 | 15 | 14.78-15.24 | 457 | 3 5-6 | | | 17 |
| Boring terminated at 15.2m | | | | | | | | |

REMARKS: CME Automatic Hammer Used. — *Denotes Calibrated Penetrometer Estimate

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WATER | 14.4m | ELEV. | 183.18 | DURING DRILLING | ℄CORE SIZE | mm | DATE: Mar 1, 00 |
| WATER | m | ELEV. | | AT COMPLETION | ℄CASING LENGTH | m | DRILLER: Winslow |
| WATER | 14.3m | ELEV. | 183.24 | AFTER 1/4 HRS. | ℄CASING DIAMETER | mm | INSPECTOR: Nelson |

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION — BORING NO: RWB6-3
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois — STATION: 10+278
LOCATION: Retaining Wall Ramp B-6 SN 072-8559 — OFFSET: 2.0m Rt
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers — SURF ELEV: 197.51

| SOIL DESCRIPTION | ELEV. | DEPTH | SAMPLE FROM - TO | REC. mm | BLOWS/ 150mm | $q_u$ kPa | STRAIN % | WATER CONTENT % |
|---|---|---|---|---|---|---|---|---|
| 150mm Bituminous Concrete | 197.36 | | 0.00-0.30 | | Auger | | | |
| Stiff Br Clay Loam A-6 | 196.59 | | 0.30-0.76 | 381 | 4 6-8 | 172 | 15 | 21 |
| | | | 1.07-1.52 | 457 | 13 12-21 | | | 5 |
| Dense to Medium Dense Br Sand A-1-a | 194.76 | | 1.83-2.29 | 457 | 7 10-10 | | | 14 |
| Stiff Br Loam A-4 | 194.31 | | 2.59-3.05 | 457 | 5 7-10 | 153 | 15 | 17 |
| Medium Dense Br Sand A-1-b | 193.24 | | 3.35-3.81 | 457 | 8 12-11 | | | 14 |
| | | | 4.11-4.57 | 457 | 4 7-11 | 469 | 15 | 15 |
| | | 5 | 4.88-5.33 | 432 | 8 8-12 | 393 | 15 | 14 |
| | | | 5.64-6.10 | 457 | 8 6-10 | 440 | 15 | 16 |
| | | | 6.40-6.86 | 457 | 6 8-12 | 421 | 15 | 15 |
| | | | 7.16-7.62 | 457 | 8 12-20 | 402 | 15 | 12 |
| Hard to Very Stiff Br Loam A-4 | | | 7.92-8.38 | 457 | 12 18-21 | 488 | 15 | 13 |
| | | | 8.69-9.14 | 457 | 9 13-16 | 460 | 15 | 12 |
| | | 10 | 9.45-9.91 | 457 | 7 10-11 | 354 | 15 | 14 |
| | | | 10.21-10.67 | 457 | 5 8-12 | 259 | 15 | 13 |
| | 186.38 | | | | | | | |
| Dense Br Sand A-1-b | | | 10.97-11.43 | 457 | 17 18-20 | | | 13 |
| | 185.47 | | | | | | | |
| Dense Br Silt A-4 | | | 11.73-12.19 | 457 | 11 15-19 | | | 9 |

REMARKS — *Denotes Calibrated Penetrometer Estimate

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WATER | 11.6m | ELEV. | 185.93 | DURING DRILLING | ℄CORE SIZE | mm | DATE: Apr 4, 00 |
| WATER | m | ELEV. | | AT COMPLETION | ℄CASING LENGTH | m | DRILLER: Fehl |
| WATER | Caved in 10.7m | ELEV. | 186.84 | AFTER 1/4 HRS. | ℄CASING DIAMETER | mm | INSPECTOR: Shook |

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION — BORING NO: RWB6-3
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois — STATION: 10+278
LOCATION: Retaining Wall Ramp B-6 SN 072-8559 — OFFSET: 2.0m Rt
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers — SURF ELEV: 197.51

| SOIL DESCRIPTION | ELEV. | DEPTH | SAMPLE FROM - TO | REC. mm | BLOWS/ 150mm | $q_u$ kPa | STRAIN % | WATER CONTENT % |
|---|---|---|---|---|---|---|---|---|
| Dense Br Silt A-4 | 184.40 | | 12.50-12.95 | 457 | 9 13-21 | | | 23 |
| Very Dense Br Sand A-1-b | | | 13.26-13.72 | 457 | 22 27-28 | | | 16 |
| | 183.03 | | 14.02-14.48 | 457 | 13 21-36 | | | 17 |
| Boring terminated at 14.5m | | | | | | | | |

REMARKS — *Denotes Calibrated Penetrometer Estimate

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WATER | 11.6m | ELEV. | 185.93 | DURING DRILLING | ℄CORE SIZE | mm | DATE: Apr 4, 00 |
| WATER | m | ELEV. | | AT COMPLETION | ℄CASING LENGTH | m | DRILLER: Fehl |
| WATER | Caved in 10.7m | ELEV. | 186.84 | AFTER 1/4 HRS. | ℄CASING DIAMETER | mm | INSPECTOR: Shook |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS II

WALL NO. 10 - RAMP B-4
F.A.I. ROUTE 74 SECTION (72-7)R-3
PEORIA COUNTY
STA. 10+149.813 TO STA 10+281.377 (RAMP B-4)
STRUCTURE NUMBER 072-8559

PARSONS TRANSPORTATION GROUP
CHICAGO, ILLINOIS

| DRAWING NO. | SCALE | DATE | SHEET NO. |
|---|---|---|---|
| 7 | N.T.S. | 6/25/04 | 7 |

Date: 11/22/2004 Time: 01:50:04 PM

Filename: P:\643996\structural\072-8559-Wall #10\sheet\Tr-oalngs\BL0002-1A0728559.dgn