

| | | | | |
|-----------------------|---------|----------|-------------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 3578 | 1327B | COOK | 76 | 22 SHEETS |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT- | |

PAGE 1 of 2

DATE September 30, 2004

LOGGED BY Patrick

GSI JOB No. 0444

SOIL BORING LOG

ROUTE IL Route 7 DESCRIPTION Retaining Wall

TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL

COUNTY Cook DRILLING METHOD 4.0" Hollow Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 016-W970

Station

BORING NO. **R-4**

Northing 1809762.4, Sta. 1508+98.63

Easting 1114789.7, offset 12.04' LT.

Ground Surface Elev. **681.7**

| DEPTH (ft) | BULGE (in) | UCS (tsf) | MOIST (%) | DESCRIPTION | DEPTH (ft) | BULGE (in) | UCS (tsf) | MOIST (%) |
|------------|------------|-----------|-----------|---|------------|------------|-----------|-----------|
| | | | | Surface Water Elev. <i>n/a</i> | | | | |
| | | | | Stream Bed Elev. <i>n/a</i> | | | | |
| | | | | Groundwater Elevation: | | | | |
| | | | | First Encounter 643.2 | | | | |
| | | | | Upon Completion <i>Dry</i> | | | | |
| | | | | After Hrs. | | | | |
| 680.4 | | | | 6.0" ASPHALT, 9.0" CRUSHED STONE | 660.7 | | | |
| 9 | | | | ORGANIC CLAY-- peat--dark brown & gray--(A-8) | | | | |
| 4 | 3.0P | 15 | | ORGANIC CLAY-- dark gray to black (A-8) | 659.2 | 1 | 0.25P | 58 |
| 5 | | | | ORGANIC CLAY--dark brown (A-8) | | | | |
| 4 | | | | | | | | |
| -5 | 2.5P | 24 | | | 655.7 | | | |
| 4 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | 2.5P | 23 | | | | | | |
| 3 | | | 99 | SANDY LOAM--brown & gray-- loose (A-2) | | | | |
| 3 | | | | | | | | |
| -10 | 1.0B | 26 | | | | | | |
| 2 | | | | | 669.7 | | | |
| 2 | | | | | | | | |
| 3 | 0.25P | 57 | | | | | | |
| 2 | | | | ORGANIC CLAY-- dark gray to black (A-8) | 648.2 | | | |
| 2 | | | | | | | | 110 |
| -15 | 0.25P | 62 | | CLAY--gray--stiff (A-6) | | | | |
| 165.7 | | | | | | | | |
| 0 | | | | | 644.7 | | | |
| 1 | | | | | | | | |
| 2 | 0.25P | 96 | | ORGANIC CLAY with fibrous peat--dark brown & gray-- (A-8) | | | | |
| 0 | | | | | | | | |
| 0 | | | | CLAY--gray--very stiff to hard (A-6) | | | | |
| -20 | 0.25P | 180 | | | | | | 119 |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B--Bulge, S--Shear, P--Penetrometer) ST--Shelby Tube Sample VS--Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR--No Recovery

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DATE September 30, 2004

LOGGED BY Patrick

GSI JOB No. 0444

SOIL BORING LOG

ROUTE IL Route 7 DESCRIPTION Retaining Wall

TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL

COUNTY Cook DRILLING METHOD 4.0" Hollow Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 016-W970

Station

BORING NO. **R-4**

Northing 1809762.4, Sta. 1508+98.63

Easting 1114789.7, offset 12.04' LT.

Ground Surface Elev. **681.7**

| DEPTH (ft) | BULGE (in) | UCS (tsf) | MOIST (%) | DESCRIPTION | DEPTH (ft) | BULGE (in) | UCS (tsf) | MOIST (%) |
|------------|------------|-----------|-----------|--------------------------------------|------------|------------|-----------|-----------|
| | | | | Surface Water Elev. <i>n/a</i> | | | | |
| | | | | Stream Bed Elev. <i>n/a</i> | | | | |
| | | | | Groundwater Elevation: | | | | |
| | | | | First Encounter 643.2 | | | | |
| | | | | Upon Completion <i>Dry</i> | | | | |
| | | | | After Hrs. | | | | |
| 683.2 | | | | CLAY--gray--very stiff to hard (A-6) | 613.2 | | | |
| 7 | | | | | | | | |
| 12 | | | | | | | | |
| -50 | 14 | NR | NR | | | | | |
| 3 | | | | | | | | |
| 15 | | | | | | | | |
| -45 | 19 | 2.5P | 13 | | | | | |
| 6 | | | | | | | | |
| 22 | | | | | | | | |
| -65 | 25 | NP | 12 | | | | | |
| 6 | | | | | | | | |
| 13 | | | | | | | | |
| -70 | 16 | NP | 35 | | | | | |
| 6 | | | | | | | | |
| 13 | | | | | | | | |
| -75 | 18 | NP | 21 | | | | | |
| 606.7 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| -55 | 8 | 1.5P | 11 | | | | | |
| 7 | | | | | | | | |
| 14 | | | | | | | | |
| -60 | 13 | NP | 10 | | | | | |
| 623.2 | | | | | | | | |
| 7 | | | | | | | | |
| 14 | | | | | | | | |
| -80 | 13 | NP | 10 | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B--Bulge, S--Shear, P--Penetrometer) ST--Shelby Tube Sample VS--Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR--No Recovery

PAGE 1 of 2

DATE August 30-- 9/14, 2004

LOGGED BY AD

GSI JOB No. 0444

SOIL BORING LOG

ROUTE IL Route 7 DESCRIPTION Retaining Wall

TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL

COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic

STRUCT. NO. 016-W970

Station

BORING NO. **R-5**

Northing 1809824.4, Sta. 1509+73.80

Easting 1114832.8, Offset 19.29' LT.

Ground Surface Elev. **681.1**

| DEPTH (ft) | BULGE (in) | UCS (tsf) | MOIST (%) | DESCRIPTION | DEPTH (ft) | BULGE (in) | UCS (tsf) | MOIST (%) |
|------------|------------|-----------|-----------|--------------------------------|------------|------------|-----------|-----------|
| | | | | Surface Water Elev. <i>n/a</i> | | | | |
| | | | | Stream Bed Elev. <i>n/a</i> | | | | |
| | | | | Groundwater Elevation: | | | | |
| | | | | First Encounter <i>n/a</i> | | | | |
| | | | | Upon Completion <i>n/a</i> | | | | |
| | | | | After Hrs. | | | | |
| 677.6 | | | | CRUSHED STONE--loose (Fill) | 660.1 | | | |
| 9 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | NP | 5 | | | | | | |
| 3 | | | 94 | | | | | |
| 3 | | | | | | | | |
| -5 | 5 | 1.25B | 30 | | | | | |
| 3 | | | 94 | | | | | |
| 5 | | | | | | | | |
| 5 | 1.1B | 25 | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| -10 | 4 | 0.75P | 22 | | | | | |
| 2 | | | 96 | | | | | |
| 3 | | | | | | | | |
| 3 | 0.5B | 28 | | | | | | |
| 3 | | | | | | | | |
| 3 | | | | | | | | |
| -15 | 3 | 0.5P | 26 | | | | | |
| 3 | | | 98 | | | | | |
| 2 | | | | | | | | |
| 3 | 0.7B | 27 | | | | | | |
| 2 | | | 98 | | | | | |
| 2 | | | | | | | | |
| -20 | 4 | 0.9B | 27 | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B--Bulge, S--Shear, P--Penetrometer) ST--Shelby Tube Sample VS--Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR--No Recovery

| | |
|----------|-----|
| DESIGNED | - |
| CHECKED | - |
| DRAWN | MD |
| CHECKED | SRT |

B Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS R-4 & R-5
NORTHWEST RETAINING WALL
IL. 7 (Southwest Highway)
F.A.U. ROUTE 3578 SECTION 1327B
COOK COUNTY
STA. 1505+40.00 to STA. 1515+78.21
STRUCTURE NUMBER 016-W970