| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0085 | 00-00246-01-FP | MCHENRY | 236 | 165 |
| STA. 109+80.00 TO STA. 112+00.00 | | | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | | |

CONTRACT NO: 63266

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAINS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

## STRUCTURE FOUNDATION BORING LOG

Page: 1 of 1

Project: McHenry County Walkup Road Phase II; Retaining Wall/Bike Path
Teng Job No: 19-3100-03
County: McHenry
Client: Teng & Associates, Inc.
OBA Job No.: 09587
Date: August 31, 2009
Bored By: MR
Checked By: DOB

BORING No.: ST-26
Station: 109+80
Offset: 41.0' Right
Ground Surface Elevation: 863.8'
Surface Water Elev.: n/a
Groundwater Elevation: 861.3' WD
Groundwater Elevation: 860.8' ACR
Cave in Elevation:

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | | | | Black Organic TOPSOIL–wet |
| | 1 | | | organic content: 46% |
| | 1 | | 125 | |
| | 1 | | | |
| –5 | 1 4 | | 88 | |
| 857.8' | | | | |
| | 1 | | | SANDY LOAM w/Gravel–brown to dark brown–very loose to loose (A–1–b) |
| | 2 5 | NP | 13 | |
| | 1 | | | |
| –10 | 2 2 | | NR | |
| | 5 | | | |
| | 5 5 | NP | 7 | |
| | 7 | | | |
| | 5 | | | |
| –15 | 4 | NP | 10 | |
| 847.8' | | | | |
| | 1 | | | SANDY LOAM–brown–loose to dense (A–2) |
| | 1 6 | NP | 19 | |
| | 7 | | | |
| | 28 | | | |
| –20 | 31 | NP | 13 | |
| 842.8' | | | | |
| | 25 | | 125 | SANDY CLAY–brown–stiff to very stiff (A–6) |
| | 9 10 | 3.5B | 13 | |
| | 13 | | | |
| | 15 | | | |
| –25 | 15 | 1.0P | 14 | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | | | | SANDY CLAY–brown–stiff to very stiff (A–6) |
| 835.3' | | | | |
| | 10 | | | |
| | 13 | | | CLAY–gray–stiff (A–6) |
| 833.8' | 14 | 1.0P | 17 | |
| –30 | | | | End of Boring @ –30.0' Hollow Stem Augers D–50 Automatic Hammer |
| –35 | | | | |
| –40 | | | | |
| –45 | | | | |
| –50 | | | | |

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

## STRUCTURE FOUNDATION BORING LOG

Page: 1 of 1

Project: McHenry County Walkup Road Phase II; Retaining Wall/Bike Path
Teng Job No: 19-3100-03
County: McHenry
Client: Teng & Associates, Inc.
OBA Job No.: 09587
Date: August 31, 2009
Bored By: MR
Checked By: DOB

BORING No.: ST-27
Station: 110+55
Offset: 40.0' Right
Ground Surface Elevation: 860.0'
Surface Water Elev.: n/a
Groundwater Elevation: 856.5' WD
Groundwater Elevation: 854.0' ACR
Cave in Elevation:

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | 1 | | | Black Organic TOPSOIL–wet |
| | 2 3 | 0.5P | 43 | organic content: 14% |
| | 1 | | | organic content: 14% |
| –5 | 1 | 0.75P | 48 | |
| | 2 | | | |
| | 4 | | | |
| 852.0' | 8 | | NR | |
| | 2 | | | SAND & GRAVEL–brown–medium dense to dense (A–1–b) |
| | 4 | | | |
| –10 | 8 | NP | 10 | |
| | 7 | | | |
| | 15 | | | |
| | 15 | NP | 7 | |
| | 7 | | | |
| | 10 | | | |
| –15 | 13 | | NR | |
| 844.0' | | | | |
| | 8 | | | CLAY–gray–very stiff to hard (A–6) |
| | 13 | | | |
| | 14 | 2.0P | 20 | |
| | 4 | | 114 | |
| | 8 | | | |
| –20 | 12 | 4.9B | 18 | |
| | 3 | | 107 | |
| | 5 | | | |
| | 8 | 2.2B | 21 | |
| | 3 | | 111 | |
| 835.0' | 5 | | | |
| –25 | 8 | 2.4B | 19 | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | | | | End of Boring @ –25.0' Hollow Stem Augers D–50 Automatic Hammer |
| –30 | | | | |
| –35 | | | | |
| –40 | | | | |
| –45 | | | | |
| –50 | | | | |

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

## STRUCTURE FOUNDATION BORING LOG

Page: 1 of 1

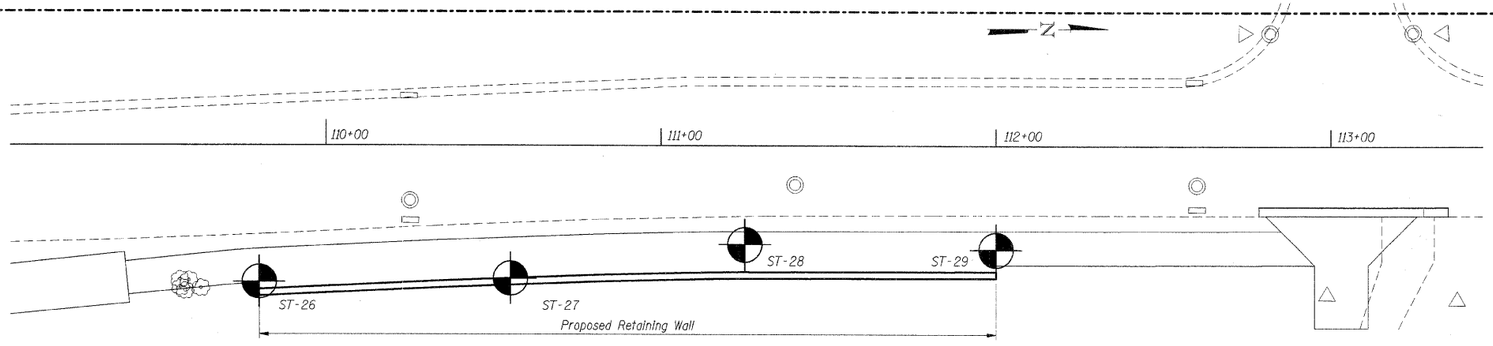
Project: McHenry County Walkup Road Phase II; Retaining Wall/Bike Path
Teng Job No: 19-3100-03
County: McHenry
Client: Teng & Associates, Inc.
OBA Job No.: 09587
Date: Sept. 1, 2009
Bored By: MR
Checked By: DOB

BORING No.: ST-28
Station: 111+28
Offset: 30.0' Right
Ground Surface Elevation: 858.8'
Surface Water Elev.: n/a
Groundwater Elevation: 852.8' WD
Groundwater Elevation: 852.0' AB
Cave in Elevation:

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | 2 | | | CLAYEY TOPSOIL–dark brown to black–stiff (A–6) |
| | 4 6 | 2.0P | 17 | |
| | 2 | | | SANDY LOAM w/GRAVEL–dark brown–loose (A–2–4) |
| –5 | 3 | 2.0P | 16 | |
| 853.8' | | | | |
| | 2 | | | SANDY LOAM w/Gravel–brown–very loose (A–1–b) |
| wet | 2 2 | NP | 37 | |
| | 2 | | | |
| | 2 | | | |
| –10 | 2 | NP | 12 | |
| | 1 | | 106 | |
| 847.8' | 2 | | | |
| | 2 | 0.3B | 22 | CLAY LOAM–gray–soft to stiff (A–6) |
| –15 | ST | 1.25P | 22 | |
| 844.3' | | | | |
| | 7 | | | SANDY LOAM to SAND & GRAVEL–gray–medium dense to dense (A–2) |
| | 10 12 | NP | 9 | |
| | 8 | | | |
| | 10 | | | |
| –20 | 12 | NP | 11 | |
| | 5 | | | |
| | 8 | | | |
| | 8 | NP | 11 | |
| | 25 | | | |
| | 20 | | | |
| –25 | 22 | NP | 11 | |

| DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) | |
|---|---|---|---|---|
| | | | | SANDY LOAM to SAND & GRAVEL–gray–medium dense to dense (A–2) 833.8' |
| | 6 | | | |
| | 13 | | | CLAY–gray–very stiff (A–6) |
| | 26 | 3.25P | 13 | |
| 836.3' | | | | |
| | 25 | | | SAND w/GRAVEL–gray–dense (A–3) |
| | 21 | | | |
| 828.8' | 19 | NP | 9 | |
| –30 | | | | End of Boring @ –30.0' Hollow Stem Augers D–50 Automatic Hammer |
| –35 | | | | |
| –40 | | | | |
| –45 | | | | |
| –50 | | | | |

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




**SOIL BORING PLAN**

SHT. SD-5

| REVISIONS | |
|---|---|
| NAME | DATE |

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
SECTION 00-00246-01-FP
STATION 109+80.00 TO 112+00.00
RETAINING WALL

SOIL BORING LOGS I

SCALE:
DRAWN BY: TCG
DATE: 12/01/09
CHECKED BY:

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

⚠1 REVISED 02/09/2010, TCG

STANKRJ

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