



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 5/17/12

ROUTE I-80 (FAI 80) DESCRIPTION Lisbon Road over I-80, 0.7 miles West of IL 47 LOGGED BY Larry Myers

SECTION (32-2)HBR-6 LOCATION NW 14, SEC. 33, TWP. 34N, RNG. 7E, Latitude 41.383168, Longitude -88.433161

COUNTY Grundy DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 032-0041 (Exist.) Station 14+45.40
 BORING NO. 1 (N. Abut.) Station 12+78, Offset 14.0 ft Ft., Ground Surface Elev. 567.07 ft (ft) (6") (tsf) (%)

| DEPTH (ft) | BULGE (ft) | SHEAR (tsf) | PENETROMETER (ft) | DESCRIPTION | DEPTH (ft) | BULGE (ft) | SHEAR (tsf) | PENETROMETER (ft) |
|------------|------------|-------------|-------------------|---|------------|------------|-------------|-------------------|
| 0 | | | | Surface Water Elev. _____ ft | 0 | | | |
| 0 | | | | Stream Bed Elev. _____ ft | 0 | | | |
| 0 | | | | Groundwater Elev.: _____ ft | 0 | | | |
| 0 | | | | First Encounter _____ 527.1 ft | 0 | | | |
| 0 | | | | Upon Completion _____ 528.1 ft | 0 | | | |
| 0 | | | | After _____ Hrs. | 0 | | | |
| 0 | | | | Augered Millings and Sand & Gravel Shoulder Gravel & Brown Silty Clay Loam TILL FILL | 6 | 5.8 | 16 | |
| 0 | | | | Some Larger Rocks in Fill up to Cobble Size (continued) | 12 | | | |
| 564.57 | | | | Hard Black Silty Clay Loam Topsoil | 8 | | | |
| | | | | Some Larger Rocks in Fill up to Cobble Size | 10 | 5.4 | 21 | |
| | | | | Hard Gray & Brown Silty Clay Loam TILL FILL | 12 | | | |
| | | | | Some Larger Rocks in Fill up to Cobble Size | 12 | | | |
| | | | | Hard Gray & Brown Silty Clay Loam TILL with Minor Loamy Sand & Gravel at 25' & Silt Pockets | 4 | | | |
| | | | | | 8 | 4.0 | 14 | |
| | | | | | 10 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | 6.1 | 20 | |
| | | | | | 14 | | | |
| | | | | Hard Brown & Gray Silty Clay with Layers of Silty Loam & Silt | 9 | | | |
| | | | | | 12 | 4.5 | 21 | |
| | | | | | 15 | | | |
| | | | | Hard Gray Clay with minor Silt Seams & Silty Clay Pockets | 8 | | | |
| | | | | | 8 | 4.3 | 25 | |
| | | | | | 9 | | | |
| | | | | | 6 | | | |
| | | | | | 8 | 4.1 | 24 | |
| | | | | | 10 | | | |
| | | | | | 7 | | | |
| | | | | | 9 | 4.3 | 25 | |
| | | | | | 11 | | | |
| | | | | | 40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



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| DEPTH (ft) | BULGE (ft) | SHEAR (tsf) | PENETROMETER (ft) | DESCRIPTION | DEPTH (ft) | BULGE (ft) | SHEAR (tsf) | PENETROMETER (ft) |
|------------|------------|-------------|-------------------|---|------------|------------|-------------|-------------------|
| 0 | | | | Surface Water Elev. _____ ft | 0 | | | |
| 0 | | | | Stream Bed Elev. _____ ft | 0 | | | |
| 0 | | | | Groundwater Elev.: _____ ft | 0 | | | |
| 0 | | | | First Encounter _____ 527.1 ft | 0 | | | |
| 0 | | | | Upon Completion _____ 528.1 ft | 0 | | | |
| 0 | | | | After _____ Hrs. | 0 | | | |
| 0 | | | | Dense to Very Dense Gray Loamy Fine Sand to Coarse Gravel with Loam & Sandy Loam Layers (continued) | 14 | | | |
| | | | | | 25 | | | 11 |
| | | | | | 25 | | | |
| | | | | | 21 | | | |
| | | | | | 37 | | | 8 |
| | | | | | 52 | | | |
| | | | | | -45 | | | |
| | | | | | 60 | | | |
| | | | | | 65 | | | 9 |
| | | | | | 81 | | | |
| | | | | | 520.07 | | | |
| | | | | Dense Gray Blocky Micaceous Shale - Weathered & Reworked in Top 1' | 71 | | | |
| | | | | | 100.5 | | | 11 |
| | | | | End of Boring | 518.65 | | | |
| | | | | | -50 | | | |
| | | | | | -55 | | | |
| | | | | | -60 | | | |

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 BBS, form 137 (Rev. 8-99)

DESIGNED -
 CHECKED -
 DRAWN -
 CHECKED -

EXAMINED -
 PASSED -

DATE - OCTOBER 9, 2014

REVISED -
 REVISED -

ACTING ENGINEER OF BRIDGE DESIGN
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 STRUCTURE NO. 032-0124

SHEET NO. 23 OF 24 SHEETS

| | | | | |
|--------------------|--------------|--------|---------------------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 5966 | (32-2) HBR-6 | GRUNDY | 98 | 70 |
| CONTRACT NO. 66B27 | | | ILLINOIS FED. AID PROJECT | |