



Illinois Department of Transportation  
Division of Highways  
LINCOLN

## SOIL BORING LOG

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Date 1/24/12

ROUTE IL 47 (FAP 326) DESCRIPTION Traffic Signals at IL 47 & ProLogis Parkway, 1.1 Miles North of I-80 LOGGED BY Larry Myers  
(109, 110)R,R-1, 110BR & BR-1 LOCATION SW 1/4, SEC. 22, TWP. 34N, RNG. 7E

| COUNTY   | Grundy     | DRILLING METHOD    | Hollow Stem Auger                                     | HAMMER TYPE | CME Automatic      |
|--|------------|--------------------|---|-------------|--------------------|
| STRUCT. NO.  |            | D B U M            | Surface Water Elev.                                   | ft          | D B U M            |
| Station  |            | E L C O            | Stream Bed Elev.                                      | ft          | E L C O            |
| BORING NO.   | 1          | P O S I            | Groundwater Elev.:                                    |             | P O S I            |
| Station  | 8059+88    | T W S              | First Encounter                                       | Dry ft      | T W S              |
| Offset   | 26.00ft RL | H S Qu T           | Upon Completion                                       | Dry ft      | H S Qu T           |
| Ground Surface Elev.   | 554.97     | (ft) (ft) (ft) (%) | After Hrs.  | ft          | (ft) (ft) (ft) (%) |
| Augered White Shoulder Stone, Black & Brown Silty Clay Loam Fill |            |                    | Hard Gray Silty Loam/Silty Clay Loam Till (continued) |             | 21                 |
|  |            |                    | End of Boring   | 533.47      | 24 11.5** 10.5     |
|  |            |                    |   |             | 33 S               |
| Very Stiff Black & Brown Silty Clay Loam Fill                    | 552.47     |                    |   |             |                    |
|  |            | 3                  |   |             |                    |
|  |            | 3 3.0              |   |             | 20.5               |
|  |            | 4 P                |   |             |                    |
|  |            |                    |   |             |                    |
|  |            | -5                 |   |             | -26                |
|  |            | 4                  |   |             |                    |
|  |            | 4 3.5              |   |             | 22.5               |
|  |            | 4 P                |   |             |                    |
| Hard Brown Silty Clay Loam Till                                  | 547.97     |                    |   |             |                    |
|  |            | 4                  |   |             |                    |
|  |            | 5 4.1              |   |             | 13.3               |
|  |            | 7 S                |   |             |                    |
| Hard Gray Silty Clay Loam Till                                   | 545.47     |                    |   |             |                    |
|  |            | 7                  |   |             | -30                |
|  |            | 10 8.1             |   |             | 15.5               |
|  |            | 12 S               |   |             |                    |
|  |            |                    |   |             |                    |
|  |            | 7                  |   |             |                    |
|  |            | 9 8.4              |   |             | 13.4               |
|  |            | 12 S               |   |             |                    |
| Hard Gray Silty Loam/Silty Clay Loam Till                        | 540.47     |                    |   |             |                    |
|  |            | -5                 |   |             | -36                |
|  |            | 12                 |   |             |                    |
|  |            | 21 10.9*           |   |             | 10.4               |
|  |            | 29 S               |   |             |                    |
| ** Max Rimac @ 5%  |            |                    |   |             |                    |
|  |            | 16                 |   |             |                    |
|  |            | 24 11.5**          |   |             | 27.5               |
|  |            | 28 S               |   |             |                    |
|  |            |                    |   |             |                    |
|  |            | -20                |   |             | -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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| COUNTY  | Grundy     | DRILLING METHOD    | Hollow Stem Auger   | HAMMER TYPE | CME Automatic      |
|---|------------|--------------------|---|-------------|--------------------|
| STRUCT. NO.   |            | D B U M            | Surface Water Elev.   | ft          | D B U M            |
| Station   |            | E L C O            | Stream Bed Elev.  | ft          | E L C O            |
| BORING NO.  | 2          | P O S I            | Groundwater Elev.:  |             | P O S I            |
| Station   | 8060+76    | T W S              | First Encounter   | Dry ft      | T W S              |
| Offset  | 27.00ft RL | H S Qu T           | Upon Completion   | Dry ft      | H S Qu T           |
| Ground Surface Elev.  | 555.42     | (ft) (ft) (ft) (%) | After Hrs.  | ft          | (ft) (ft) (ft) (%) |
| Augered White Shoulder Stone, Black/Brown Silty Clay Loam Fill  |            |                    | Hard Gray Silty Loam/Silty Clay Loam Till with some Silt Layers (continued) |             | 23                 |
|   |            |                    | End of Boring   | 533.92      | 33 11.5** 12.2     |
|   |            |                    |   |             | 40 S               |
| Very Stiff Black & Brown Silty Clay Loam Fill                   | 552.92     |                    |   |             |                    |
|   |            | 2                  |   |             |                    |
|   |            | 3 3.0              |   |             | 17.6               |
|   |            | 4 P                |   |             |                    |
|   |            |                    |   |             |                    |
|   |            | -5                 |   |             | -26                |
|   |            | 5                  |   |             |                    |
|   |            | 4 3.8              |   |             | 21.3               |
|   |            | 4 P                |   |             |                    |
| Hard Brown Silty Clay Loam Till                                 | 547.92     |                    |   |             |                    |
|   |            | 4                  |   |             |                    |
|   |            | 5 3.9              |   |             | 17.6               |
|   |            | 6 S                |   |             |                    |
| Hard Gray Silty Clay Loam Till                                  | 545.42     |                    |   |             |                    |
|   |            | 8                  |   |             | -30                |
|   |            | 11 6.3             |   |             | 13.8               |
|   |            | 14 S               |   |             |                    |
|   |            |                    |   |             |                    |
|   |            | 9                  |   |             |                    |
|   |            | 10 8.0             |   |             | 11.4               |
|   |            | 12 S               |   |             |                    |
| Hard Gray Silty Loam/Silty Clay Loam Till with some Silt Layers | 540.92     |                    |   |             |                    |
|   |            | -5                 |   |             | -36                |
|   |            | 16                 |   |             |                    |
|   |            | 16 11.5**          |   |             | 11.7               |
|   |            | 26 S               |   |             |                    |
| ** Max Rimac @ 5%   |            |                    |   |             |                    |
|   |            | 12                 |   |             |                    |
|   |            | 14 11.5**          |   |             | 8.4                |
|   |            | 29 S               |   |             |                    |
|   |            |                    |   |             |                    |
|   |            | -20                |   |             | -40                |

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|--|------------|--------------------|---|-------------|--------------------|
| STRUCT. NO.  |            | D B U M            | Surface Water Elev.                                   | ft          | D B U M            |
| Station  |            | E L C O            | Stream Bed Elev.                                      | ft          | E L C O            |
| BORING NO.   | 3          | P O S I            | Groundwater Elev.:                                    |             | P O S I            |
| Station  | 8062+19    | T W S              | First Encounter                                       | Dry ft      | T W S              |
| Offset   | 26.00ft RL | H S Qu T           | Upon Completion                                       | Dry ft      | H S Qu T           |
| Ground Surface Elev.   | 555.29     | (ft) (ft) (ft) (%) | After Hrs.  | ft          | (ft) (ft) (ft) (%) |
| Augered White Shoulder Stone, Black & Brown Silty Clay Loam Fill |            |                    | Hard Gray Silty Clay Loam/Silty Loam Till (continued) |             | 31                 |
|  |            |                    | End of Boring   | 533.79      | 58 12.1** 6.5      |
|  |            |                    |   |             | 79 S               |
| Very Stiff Black & Brown Silty Clay Loam Fill                    | 552.79     |                    |   |             |                    |
|  |            | 3                  |   |             |                    |
|  |            | 4 3.0              |   |             | 23.8               |
|  |            | 5 P                |   |             |                    |
|  |            |                    |   |             |                    |
|  |            | -5                 |   |             | -26                |
|  |            | 4                  |   |             |                    |
|  |            | 4 3.5              |   |             | 15.2               |
|  |            | 5 P                |   |             |                    |
| Hard Brown Silty Loam/Silty Clay Loam Till                       | 545.79     |                    |   |             |                    |
|  |            | 4                  |   |             |                    |
|  |            | 4 3.0              |   |             | 17.4               |
|  |            | 3 P                |   |             |                    |
| Hard Brown Silty Loam/Silty Clay Loam Till                       | 543.29     |                    |   |             |                    |
|  |            | 4                  |   |             | -30                |
|  |            | 5 4.1              |   |             | 13.7               |
|  |            | 6 S                |   |             |                    |
| Hard Gray Silty Clay Loam/Silty Loam Till                        |            |                    |   |             |                    |
|  |            | 8                  |   |             |                    |
|  |            | 9 7.6              |   |             | 12.2               |
|  |            | 10 S               |   |             |                    |
| ** Max Rimac @ 5%  |            |                    |   |             |                    |
|  |            | 21                 |   |             |                    |
|  |            | 32 11.5**          |   |             | 8.3                |
|  |            | 37 S               |   |             |                    |
| *** Max Rimac @ 0%   |            |                    |   |             |                    |
|  |            | 22                 |   |             |                    |
|  |            | 41 12.1**          |   |             | 5.4                |
|  |            | 42 S               |   |             |                    |
|  |            |                    |   |             |                    |
|  |            | -20                |   |             | -40                |

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