

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| Geo Services, Inc.<br>Geotechnical, Environmental & Civil Engineering<br>806 Parkview Court, #204<br>Naperville, Illinois 60565<br>(630) 251-1888 |  | SOIL BORING LOG   |  | PAGE 1 of 2              |  |
|---|--|---|--|--------------------------|--|
| ROUTE <u>F.A.I. RTE. 55</u>   |  | DESCRIPTION <u>Central Avenue Over Interstate 55 Ramp Reconstruction</u>            |  | DATE <u>7/15-16/2010</u> |  |
| SECTION <u>9(H, HB &amp; SB)R-1</u>   |  | LOCATION <u>SEC. 4 &amp; 5, TWP. 38 N., RNG. 13 E., 3rd P.M., Stickney Township</u> |  | LOGGED BY <u>RJ</u>      |  |
| COUNTY <u>Cook</u>  |  | DRILLING METHOD <u>Hollow Stem Auger/Rotary</u> HAMMER TYPE <u>CME Automatic</u>    |  | GSI JOB No. <u>10098</u> |  |
| STRUCT. NO. <u>016-1306</u>   |  | Surface Water Elev. <u>n/a</u>  |  | D B U M                  |  |
| Station <u>202+34 to 203+79</u>   |  | Stream Bed Elev. <u>n/a</u>   |  | E L C O                  |  |
| BORING NO. <u>RW-13</u>   |  | Groundwater Elevation:  |  | P O S I                  |  |
| Station <u>202+53</u>   |  | First Encounter <u>n/a</u>  |  | T W S I                  |  |
| Offset <u>39.0' Left</u>  |  | Upon Completion <u>n/a</u>  |  | H S Qu T                 |  |
| Ground Surface Elev. <u>600.7</u>   |  | After _____ Hrs. <u>    </u>  |  | (ft) (6") (tsf) (%)      |  |
| 6.0" ASPHALT, 8.0" CONCRETE,<br>3.0" CRUSHED STONE  |  | 599.3   |  | 15                       |  |
|   |  | 6   |  | 7                        |  |
|   |  | 6   |  | 4.5+P 17                 |  |
|   |  | 3   |  | 10 1.7B 22               |  |
| CLAY LOAM with Cinders-brown & gray-<br>medium stiff to hard (A-6) Fill   |  | 3   |  | 107                      |  |
|   |  | 4   |  | 6                        |  |
|   |  | 5   |  | 2.25B 21                 |  |
|   |  | 2   |  | 5                        |  |
|   |  | 2   |  | 8                        |  |
|   |  | 4   |  | 0.75B 22                 |  |
|   |  | 12  |  | 2.0B 20                  |  |
|   |  | 572.7   |  |                          |  |
|   |  | 2   |  | 112                      |  |
|   |  | 2   |  | 1.2B 19                  |  |
|   |  | -10   |  | 2 2                      |  |
|   |  | 3   |  | 110                      |  |
|   |  | 4   |  | 1.1B 19                  |  |
|   |  | 587.7   |  |                          |  |
| SILTY CLAY-brown & gray-<br>stiff (A-6)   |  | 2   |  | 95                       |  |
|   |  | 2   |  | 5                        |  |
|   |  | -15   |  | 4 0.7B 27                |  |
|   |  | 585.2   |  |                          |  |
|   |  | 4   |  | 107                      |  |
|   |  | 5   |  | 7 1.9B 21                |  |
| CLAY-gray-<br>stiff to very stiff (A-6)   |  | 2   |  | 8                        |  |
|   |  | 4   |  | 16 2.25@                 |  |
|   |  | -20   |  | 5 NR                     |  |
|   |  | -40   |  | 30 12.7% 15              |  |

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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|---|--|---|--|--------------------------|--|
| ROUTE <u>F.A.I. RTE. 55</u>   |  | DESCRIPTION <u>Central Avenue Over Interstate 55 Ramp Reconstruction</u>            |  | DATE <u>7/15-16/2010</u> |  |
| SECTION <u>9(H, HB &amp; SB)R-1</u>   |  | LOCATION <u>SEC. 4 &amp; 5, TWP. 38 N., RNG. 13 E., 3rd P.M., Stickney Township</u> |  | LOGGED BY <u>RJ</u>      |  |
| COUNTY <u>Cook</u>  |  | DRILLING METHOD <u>Hollow Stem Auger/Rotary</u> HAMMER TYPE <u>CME Automatic</u>    |  | GSI JOB No. <u>10098</u> |  |
| STRUCT. NO. <u>016-1306</u>   |  | Surface Water Elev. <u>n/a</u>  |  | D B U M                  |  |
| Station <u>202+34 to 203+79</u>   |  | Stream Bed Elev. <u>n/a</u>   |  | E L C O                  |  |
| BORING NO. <u>RW-13</u>   |  | Groundwater Elevation:  |  | P O S I                  |  |
| Station <u>202+53</u>   |  | First Encounter <u>n/a</u>  |  | T W S I                  |  |
| Offset <u>39.0' Left</u>  |  | Upon Completion <u>n/a</u>  |  | H S Qu T                 |  |
| Ground Surface Elev. <u>600.7</u>   |  | After _____ Hrs. <u>    </u>  |  | (ft) (6") (tsf) (%)      |  |
| SILTY CLAY-gray-<br>stiff to very stiff (A-6)   |  | 558.7   |  |                          |  |
|   |  | 28  |  | 23                       |  |
| SILTY CLAY LOAM-gray-<br>very dense (A-4)   |  | 39  |  | 38                       |  |
|   |  | -45   |  | 35 4.5P 14               |  |
|   |  | 553.7   |  |                          |  |
|   |  | 17  |  | 1001"                    |  |
| SANDY LOAM-gray-dense (A-2)   |  | 23  |  |                          |  |
|   |  | -50   |  | 25 NP 19                 |  |
|   |  | 548.7   |  | 530.7 -70 NR             |  |
|   |  | 10  |  |                          |  |
|   |  | 24  |  |                          |  |
| CLAY to CLAY LOAM-gray-<br>very stiff to hard (A-6)   |  | -55   |  | 26 4.5P 15               |  |
|   |  | 9   |  | 116                      |  |
|   |  | 18  |  | 3.1S@                    |  |
|   |  | -60   |  | 27 12.7% 13              |  |
|   |  | -80   |  |                          |  |

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

**BORING LOGS 1**  
**STRUCTURE NO. 016-1306**

**TYLIN INTERNATIONAL**

| DESIGNED -        | REVISIONS |      |
|-------------------|-----------|------|
|                   | NAME      | DATE |
| CHECKED - AMD,    |           |      |
| DRAWN -           |           |      |
| CHECKED - AMD,    |           |      |
| DATE - 03/25/2011 |           |      |

|   |                    |                    |        |              |           |
|---|--------------------|--------------------|--------|--------------|-----------|
| SHEET NO. 8                                     | F.A.I. RTE.        | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|   | 55                 | 0711.2R & 1011.1BR | COOK   | 741          | 591       |
| 9 SHEETS  | CONTRACT NO. 60999 |                    |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                    |                    |        |              |           |

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