

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |         |           |                  |           |
|-----------------------|---------|-----------|------------------|-----------|
| ROUTE NO.             | SECTION | COUNTY    | TOTAL SHEETS     | SHEET NO. |
| F.A.P. 315            | 55-2    | McDONOUGH | 1025             | 515       |
| FED. ROAD DIST. NO. 4 |         | ILLINOIS  | FED. AID PROJECT |           |

SHEET NO. 15  
16 SHEETS

Contract # 68205

Illinois Department of Transportation  
Division of Highways  
SOIL BORING LOG  
Page 1 of 3  
Date 4/7/04

ROUTE FAP 315 (IL 336) DESCRIPTION IL 336 Macomb to Carthage LOGGED BY KJT  
SECTION 24.31.32 LOCATION SEC. TWP. RNG.  
COUNTY McDonough DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTO

STRUCT. NO. BNSF RR  
Station (Ramp I)  
BORING NO. BB791 (BB91)  
Station 924+50  
Offset 91.00H ft  
Ground Surface Elev. 590.50 ft

| DEPTH (ft) | DIAMETER (in) | UNIT | MOISTURE (%) | SOIL DESCRIPTION                                 | DEPTH (ft) | DIAMETER (in) | UNIT | MOISTURE (%) | SOIL DESCRIPTION |
|------------|---------------|------|--------------|--|------------|---------------|------|--------------|------------------|
| 0          |               |      |              | Surface Water Elev. _____ ft                     | 0          |               |      |              |                  |
|            |               |      |              | Stream Bed Elev. _____ ft                        |            |               |      |              |                  |
|            |               |      |              | Groundwater Elev.: _____ ft                      |            |               |      |              |                  |
|            |               |      |              | First Encounter _____ ft                         |            |               |      |              |                  |
|            |               |      |              | Upon Completion _____ ft                         |            |               |      |              |                  |
|            |               |      |              | After 24 Hrs. _____ ft                           |            |               |      |              |                  |
| 16         |               | S    |              | Brown & Reddish-Brown CLAY LOAM TILL (continued) | 16         |               | S    |              |                  |
| 3          |               |      |              |  | 6          |               |      |              |                  |
| 3          | 2.5           |      | 24.0         |  | 15         | 3.9           |      | 11.0         |                  |
| 4          |               | S    |              |  | 14         |               | S    |              |                  |
| 686.50     |               |      |              |  | 666.50     |               |      |              |                  |
| 2          |               |      |              | Brown & Gray Mottled SILTY CLAY LOAM             | 5          |               |      |              |                  |
| 2          | 0.7           |      | 28.0         |  | 12         | 5.6           |      | 13.0         |                  |
| 2          |               | S    |              |  | 13         |               | S    |              |                  |
| 1          |               |      |              |  | 4          |               |      |              |                  |
| 2          | 2.1           |      | 27.0         |  | 8          | 7.2           |      | 13.0         |                  |
| 3          |               | S    |              |  | 13         |               | S    |              |                  |
| 1          |               |      |              |  | 5          | 4.5           |      | 13.0         |                  |
| 1          | 0.6           |      | 25.0         |  | 12         |               | S    |              |                  |
| 2          |               | S    |              |  | 21         |               |      | 19.0         |                  |
| 679.00     |               |      |              |  | 659.00     |               |      |              |                  |
| 1          |               |      |              | Brown & Gray SANDY CLAY LOAM                     | 4          |               |      |              |                  |
| 3          | 2.7           |      | 25.0         |  | 7          | 4.5           |      | 15.0         |                  |
| 5          |               | S    |              |  | 11         |               | S    |              |                  |
| 2          |               |      |              |  | 3          |               |      |              |                  |
| 2          | 1.5           |      | 25.0         |  | 7          | 3.9           |      | 19.0         |                  |
| 5          |               | B    |              |  | 10         |               | S    |              |                  |
| 2          |               |      |              |  | 7          |               |      |              |                  |
| 6          | 1.5           |      | 18.0         |  | 8          | 1.0           |      | 25.0         |                  |
| 10         |               | S    |              |  | 8          |               | P    |              |                  |
| 671.50     |               |      |              |  | 654.00     |               |      |              |                  |
| 6          |               |      |              | reddish-brown                                    | 7          |               |      |              |                  |
| 8          | 3.5           |      | 13.0         |  | 8          | 1.0           |      | 25.0         |                  |
| 8          |               | S    |              |  | 8          |               | P    |              |                  |
|            |               |      |              |  | 3          |               |      |              |                  |
|            |               |      |              |  | 6          | 3.5           |      | 17.0         |                  |

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, from 137 (Rev. 8-99)

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Ground Surface Elev. 590.50 ft

| DEPTH (ft) | DIAMETER (in) | UNIT | MOISTURE (%) | SOIL DESCRIPTION                        | DEPTH (ft) | DIAMETER (in) | UNIT | MOISTURE (%) | SOIL DESCRIPTION |
|------------|---------------|------|--------------|---|------------|---------------|------|--------------|------------------|
| 8          |               | B    |              | Gray & Brown CLAY LOAM TILL (continued) | 9          |               | B    |              |                  |
| 849.00     |               |      |              |   | 4          |               |      |              |                  |
| 7          |               |      |              | Gray & Greenish-Gray CLAY LOAM TILL     | 7          |               |      |              |                  |
| 9          | 3.3           |      | 14.0         |   | 7          | 3.3           |      | 23.0         |                  |
| 17         |               | S    |              |   | 9          |               | S    |              |                  |
| 646.50     |               |      |              |   | 4          |               |      |              |                  |
| 12         |               |      |              | Gray Fine SAND                          | 4          |               |      |              |                  |
| 645.75     |               |      |              |   | 6          | 3.5           |      | 25.0         |                  |
| 11         |               |      |              | Gray & Greenish-Gray CLAY LOAM TILL     | 7          |               |      |              |                  |
| 14         | 4.6           |      | 14.0         |   | 13         |               | S    |              |                  |
| 644.00     |               |      |              |   | 3          |               |      |              |                  |
| 5          |               |      |              | Gray Fine SAND                          | 3          |               |      |              |                  |
| 643.25     |               |      |              |   | 6          | 2.6           |      | 25.0         |                  |
| 22         |               |      |              | Brown & Gray CLAY LOAM TILL             | 18         |               | B    |              |                  |
| 18         |               | B    |              |   | 4          |               |      |              |                  |
| 6          |               |      |              |   | 5          | 3.3           |      | 23.0         |                  |
| 9          | 3.8           |      | 15.0         |   | 9          |               | S    |              |                  |
| 15         |               | S    |              |   | 15         |               |      | 19.0         |                  |
| 7          |               |      |              |   | 3          |               |      |              |                  |
| 12         | 4.1           |      | 15.0         |   | 5          | 3.3           |      | 19.0         |                  |
| 13         |               | S    |              |   | 7          |               | B    |              |                  |
| 7          |               |      |              |   | 3          |               |      |              |                  |
| 7          |               |      |              |   | 4          | 2.3           |      | 19.0         |                  |
| 10         | 2.9           |      | 14.0         |   | 7          |               | B    |              |                  |
| 14         |               | S    |              |   | 5          |               |      |              |                  |
| 654.00     |               |      |              |   | 5          |               |      |              |                  |
| 5          |               |      |              | Greenish-Gray CLAY LOAM TILL            | 11         | 3.3           |      | 14.0         |                  |
| 8          | 3.9           |      | 14.0         |   | 12         |               | B    |              |                  |
| 10         |               | B    |              |   | 4          |               |      |              |                  |
| 3          |               |      |              |   | 9          | 3.1           |      | 14.0         |                  |
| 5          | 3.1           |      | 17.0         |   |            |               |      |              |                  |

dark gray

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Ground Surface Elev. 590.50 ft

| DEPTH (ft)    | DIAMETER (in) | UNIT | MOISTURE (%) | SOIL DESCRIPTION                         | DEPTH (ft) | DIAMETER (in) | UNIT | MOISTURE (%) | SOIL DESCRIPTION |
|---------------|---------------|------|--------------|--|------------|---------------|------|--------------|------------------|
| 12            |               | B    |              | Greenish-Gray CLAY LOAM TILL (continued) | 6          | 2.9           |      | 14.0         |                  |
| 6             |               |      |              |  | 15         | 6.4           |      | 21.0         |                  |
| 8             |               | B    |              | Gray & Dk. Brown SILTY LOAM w/ organics  | 6          |               |      |              |                  |
| 15            |               | S    |              |  | 9          | 3.3           |      | 37.0         |                  |
| 6             |               |      |              |  | 13         |               | B    |              |                  |
| 9             | 3.3           |      | 37.0         |  | 5          |               |      |              |                  |
| 13            |               | B    |              |  | 9          | 5.0           |      | 18.0         |                  |
| 16            |               | B    |              |  | 6          |               |      |              |                  |
| 601.50        |               |      |              |  | 6          |               |      |              |                  |
| 6             |               |      |              | Gray CLAY                                | 9          | 3.9           |      | 20.0         |                  |
| 9             |               | B    |              |  | 12         |               | B    |              |                  |
| 589.00        |               |      |              |  | 6          |               |      |              |                  |
| 6             |               |      |              | Brown & Gray CLAY LOAM TILL              | 9          | 5.8           |      | 22.0         |                  |
| 9             |               | S    |              |  | 14         |               |      |              |                  |
| 10            |               |      |              |  | 10         |               |      |              |                  |
| 4             | 2.3           |      | 19.0         |  | 19         | 5.8           |      | 21.0         |                  |
| 7             |               | B    |              |  | 19         |               | S    |              |                  |
| 594.00        |               |      |              |  | 594.00     |               |      |              |                  |
| 593.80        |               |      |              | Gray SANDSTONE/SANDY SHALE               | 0002'      |               |      |              |                  |
| End of Boring |               |      |              |  |            |               |      |              |                  |

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|          |     |
|----------|-----|
| DESIGNED | PJL |
| CHECKED  | WDL |
| DRAWN    | MGM |
| CHECKED  | PJL |

BORING LOGS  
BURLINGTON NORTHERN  
SANTA FE RAILROAD OVER  
RAMP I  
F.A.P. ROUTE 315 SECT. 55-2  
McDONOUGH COUNTY  
STATION 21+61.48  
STRUCTURE NO. 055-9902  
B.N.S.F. LINE SEGMENT 0011  
B.N.S.F. BRIDGE NO. 206.13

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