



### SOIL BORING LOG

Page 1 of 2

Date 9/6/11

ROUTE IL 9 (FAP 693) DESCRIPTION IL 9 over West Branch of Drummer Creek, 1 Mile West of IL 47 at Gibson City LOGGED BY Larry Myers

SECTION 19BR LOCATION NE 1/4, SEC. 9, TWP. 23N, RNG. 7E

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

| STRUCT. NO.   | Station | BORING NO.     | Station | Offset      | Ground Surface Elev. | (ft) | (/6") | (tsf) | (%)  | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev.: | First Encounter | Upon Completion | After | Hrs. | (ft) | (/6") | (tsf) | (%)  |
|---|---------|----------------|---------|-------------|----------------------|------|-------|-------|------|---------------------|------------------|--------------------|-----------------|-----------------|-------|------|------|-------|-------|------|
| 027-0005 (Exist.)   | 862+20  | 1 (East Abut.) | 861+59  | 12.00ft Rt. | 750.62               |      |       |       |      | 739.80              | 739.04           | 721.6              | 721.6           | 732.6           |       |      |      |       |       |      |
| Augered Bituminous Shoulder, Sand/Gravel Fill, Black Silty Clay Loam Fill |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             | 748.12               |      | 3     |       |      |                     |                  |                    |                 |                 |       |      |      | 5     | 4.5   | 12.0 |
| Very Stiff Black & Dark Brown Silty Clay Loam Fill                        |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             |                      |      | 3     |       | 24.5 |                     |                  |                    |                 |                 |       |      |      | 5     | 5.4   | 9.3  |
|   |         |                |         |             |                      |      | 4     |       |      |                     |                  |                    |                 |                 |       |      |      | 7     | 9     |      |
|   |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      | 4     |       |      |
|   |         |                |         |             |                      |      | 2     |       |      |                     |                  |                    |                 |                 |       |      |      | 5     | 5.0   | 13.1 |
|   |         |                |         |             |                      |      | 5     | 2.5   | 25.5 |                     |                  |                    |                 |                 |       |      |      | 6     |       |      |
| Soft Brown, Gray Silty Clay Loam/Silty Loam Fill                          |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             | 743.62               |      | 1     |       |      |                     |                  |                    |                 |                 |       |      |      | 4     |       |      |
|   |         |                |         |             |                      |      | 2     | 1.0   | 33.3 |                     |                  |                    |                 |                 |       |      |      | 6     | 5.2   | 12.0 |
|   |         |                |         |             |                      |      | 2     |       |      |                     |                  |                    |                 |                 |       |      |      | 7     |       |      |
| Medium Gray Fine to Medium Gravel with Free Water                         |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             |                      |      |       |       |      |                     |                  | 721.62             |                 |                 |       |      |      | 5     |       |      |
|   |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      | 8     |       | 14.3 |
|   |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      | 10    |       |      |
| Dense Gray Fine Sand to Coarse Gravel                                     |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             | 738.12               |      | 2     |       |      |                     |                  |                    |                 |                 |       |      |      | 17    |       |      |
|   |         |                |         |             |                      |      | 3     | 1.5   | 16.1 |                     |                  |                    |                 |                 |       |      |      | 18    |       | 14.9 |
|   |         |                |         |             |                      |      | 2     |       |      |                     |                  |                    |                 |                 |       |      |      | 22    |       |      |
| Washed Samples 32.5' - 39.5'  |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      | 17    |       |      |
|   |         |                |         |             |                      |      | 3     | 1.5   | 20.3 |                     |                  |                    |                 |                 |       |      |      | 18    |       | 11.5 |
|   |         |                |         |             |                      |      | 4     |       |      |                     |                  |                    |                 |                 |       |      |      | 26    |       |      |
| Very Stiff to Hard Gray Silty Loam/Silty Clay Loam Till with Silt Pockets |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|   |         |                |         |             | 733.62               |      | 3     |       |      |                     |                  |                    |                 |                 |       |      |      | 18    |       |      |
|   |         |                |         |             |                      |      | 4     | 2.5   | 13.2 |                     |                  |                    |                 |                 |       |      |      | 20    |       | 14.6 |
|   |         |                |         |             |                      |      | 5     |       |      |                     |                  |                    |                 |                 |       |      |      | 25    |       |      |
|   |         |                |         |             |                      |      |       |       |      |                     |                  |                    |                 |                 |       |      |      | 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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Page 2 of 2

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| STRUCT. NO.  | Station | BORING NO.     | Station | Offset      | Ground Surface Elev. | (ft) | (/6") | (tsf) | (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev.: | First Encounter | Upon Completion | After | Hrs. | (ft) | (/6") | (tsf) | (%)  |
|--|---------|----------------|---------|-------------|----------------------|------|-------|-------|-----|---------------------|------------------|--------------------|-----------------|-----------------|-------|------|------|-------|-------|------|
| 027-0005 (Exist.)  | 862+20  | 1 (East Abut.) | 861+59  | 12.00ft Rt. | 750.62               |      |       |       |     | 739.80              | 739.04           | 721.6              | 721.6           | 732.6           |       |      |      |       |       |      |
| Hard Gray Clay Loam Till   |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 6     |       |      |
| Washed Samples 39.5' - 44.0' (continued)                             |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 7     | 4.8   | 11.3 |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 9     |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 6     |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 8     | 4.2   | 11.7 |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 8     |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 9     |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 10    | 5.3   | 12.5 |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 12    |       |      |
| Dense Gray Fine Sand to Coarse Gravel with Layers of Sandy Loam Till |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|  |         |                |         |             | 703.62               |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 19    |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 22    |       | 12.3 |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 23    |       |      |
| Washed Samples 47.5' - 51.5'   |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 16    |       |      |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 26    |       | 13.1 |
|  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      | 36    |       |      |
| End of Boring  |         |                |         |             |                      |      |       |       |     |                     |                  |                    |                 |                 |       |      |      |       |       |      |
|  |         |                |         |             | 699.12               |      |       |       |     |                     |                  |                    |                 |                 |       |      |      |       |       |      |

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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)



|                |               |
|----------------|---------------|
| DESIGNED - TCR | REVISOR       |
| CHECKED - JML  | REVISOR       |
| DRAWN - JWK    | REVISOR       |
| DATE - 8/10/12 | CHECKED - MSW |
|                | REVISOR       |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 027-0101

SHEET NO. B20 OF 30 SHEETS

|                           |         |        |              |           |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 693                       | 19BR    | FORD   | 61           | 42        |
| CONTRACT NO. 66A12        |         |        |              |           |
| ILLINOIS FED. AID PROJECT |         |        |              |           |