



Illinois Department
of Transportation

Division of Highways
SCI Engineering, Inc.

FAP 665 (IL 116) & FAP

SOIL BORING LOG

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Date 1/7/09

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION (136, 137)W&RS-3; 136R; 109BR-2 LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

| STRUCT. NO. | DEPT H | BLOW | U | M | Surface Water Elev. | DEPT H | BLOW | U | M |
|--|--------|-------|-------|-----|--|--------|-------|-------|-----|
| Station | S | W | Qu | T | ft | S | W | Qu | T |
| BORING NO. | | | | | Groundwater Elev.: | | | | |
| Station | | | | | First Encounter | | | | |
| Offset | | | | | Upon Completion | | | | |
| Ground Surface Elev. | (ft) | (/6") | (tsf) | (%) | After | (ft) | (/6") | (tsf) | (%) |
| 036-0034 (existing) | | | | | 733.10 | | | | |
| 53 | | | | | 724.1 | | | | |
| 19+67 | | | | | 733.1 | | | | |
| 11 ft Lt | | | | | | | | | |
| 742.1 | | | | | | | | | |
| ASPHALT - 2 inches | | | | | SANDY LOAM: Gray (A-2) | | | | |
| FILL: Milled asphalt and crushed rock | | | | | (continued) | | | | |
| 740.1 | 4 | | | | | 16 | | | |
| FILL: Brown and dark brown sandy clay loam (A-6) | 5 | 2.5 | 19 | | | 26 | 1.3 | 20 | |
| 738.6 | 5 | P | | | | 40 | S | | |
| FILL: Dark brown clay loam (A-7) | 3 | | | | | 18 | | | |
| No recovery - auger cuttings obtained. | 3 | | 30 | | | 100 | | 18 | |
| 736.6 | -5 | 4 | | | | -25 | | | |
| CLAY: Dark brown (A-7) | | | | | Trace thin organic deposits | | | | |
| 734.1 | 1 | | | | | 28 | | | |
| SILTY CLAY LOAM: Gray (A-7) | 3 | 0.9 | 33 | | | 100 | 0.9 | 21 | |
| 731.6 | 3 | B | | | | | | | |
| SANDY CLAY LOAM: Gray, trace to some fine gravel (A-6) | 1 | | | | | 5 | | | |
| Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730. | 1 | 0.3 | 27 | | | 9 | | 28 | |
| 729.1 | -10 | 3 | B | | | -30 | | | |
| SANDY CLAY LOAM: Gray, trace to some fine gravel (A-6) | | | | | Harder drilling at 32 feet. | | | | |
| Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730. | 2 | 1.2 | 13 | | SILTSTONE WITH SANDY SHALE: Gray | | | | |
| 728.4 | | | | | | 100 | | 10 | |
| SANDY LOAM: Gray (A-2) | 2 | | | | Upon removal of lead auger, carbide teeth were worn off. | | | | |
| 707.6 | 4 | | 20 | | End of Boring at 34.5 ft. | | | | |
| | -15 | 4 | | | | -35 | | | |
| | | | | | | | | | |
| | 2 | | | | | | | | |
| | 5 | 0.8 | 20 | | | | | | |
| | 7 | S | | | | | | | |
| | | | | | | | | | |
| | 12 | | | | | | | | |
| | 14 | 0.9 | 20 | | | | | | |
| | 18 | 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)
AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



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COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

| STRUCT. NO. | DEPT H | BLOW | U | M | Surface Water Elev. | DEPT H | BLOW | U | M |
|--|--------|-------|-------|-----|--|--------|-------|-------|-----|
| Station | S | W | Qu | T | ft | S | W | Qu | T |
| BORING NO. | | | | | Groundwater Elev.: | | | | |
| Station | | | | | First Encounter | | | | |
| Offset | | | | | Upon Completion | | | | |
| Ground Surface Elev. | (ft) | (/6") | (tsf) | (%) | After | (ft) | (/6") | (tsf) | (%) |
| 036-0034 (existing) | | | | | 733.10 | | | | |
| 54 | | | | | 730.4 | | | | |
| 20+38 | | | | | 729.4 | | | | |
| 13 ft Rt | | | | | | | | | |
| 741.4 | | | | | | | | | |
| CRUSHED ROCK - 8 inches estimated | | | | | SANDY LOAM: Gray (A-2) | | | | |
| FILL: Brown silty clay loam (A-7) | | | | | (continued) | | | | |
| 740.7 | | | | | | 6 | | | |
| | 3 | | | | | 15 | 2.8 | 19 | |
| | 2 | 2.0 | 24 | | | 28 | P | | |
| | 3 | P | | | | | | | |
| | | | | | | | | | |
| | 1 | | | | | 17 | | | |
| FILL: Brown and dark brown silty clay (A-6) | 2 | 0.5 | 29 | | | 46 | 0.7 | 20 | |
| 737.4 | 3 | P | | | | 97 | S | | |
| | -5 | | | | | -25 | | | |
| CLAY LOAM: Dark brown (A-7) | | | | | | | | | |
| 735.9 | | | | | | | | | |
| | 1 | | | | | 27 | | | |
| | 1 | 0.4 | 32 | | | 100 | | 17 | |
| | 2 | B | | | | | | | |
| SANDY CLAY LOAM: Gray, trace organics (A-7) | 1 | | | | Becomes light brown, trace to some organics and trace fine gravel | | | | |
| 733.4 | | | | | | 4 | | | |
| | 2 | 0.6 | 20 | | | 5 | | 24 | |
| SANDY LOAM: Gray, trace fine gravel (A-2) | 4 | B | | | | 8 | | | |
| 731.9 | -10 | | | | | -30 | | | |
| CLAY LOAM: Brown (A-7) | | | | | Harder drilling at 32 feet. | | | | |
| 730.9 | | | | | | | | | |
| | 1 | | | | | | | | |
| Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730. | 2 | 1.9 | 17 | | | | | | |
| 730.4 | 3 | B | | | SILTSTONE WITH SANDY SHALE: Gray | | | | |
| Becomes gray and brown | | | | | | 100 | | 18 | |
| 728.4 | | | | | Carbide teeth on lead auger worn off in B-53. Additional augering with second lead auger in B-54 stopped at 33.5 feet due to possible breakage or excessive wear on carbide teeth. | | | | |
| SANDY LOAM: Gray (A-2) | 2 | | | | End of Boring at 34.0 ft. | | | | |
| | 4 | 2.5 | 20 | | | 100 | | 16 | |
| | 5 | P | | | | | | | |
| | -15 | | | | | -35 | | | |
| | | | | | | | | | |
| | 3 | | | | | | | | |
| | 5 | 2.5 | 19 | | | | | | |
| | 6 | P | | | | | | | |
| | | | | | | | | | |
| | 5 | | | | | | | | |
| | 9 | 0.8 | 21 | | | | | | |
| | 12 | S | | | | | | | |
| | -20 | | | | | -40 | | | |

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