HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax



# Bridge Foundation Boring Log

Project: H-10064 Bridge Over Sugar Creek Date: 4/2/2010
Section: 09-02117-00-BR Station
Structure: Bored by: J. Carter
County: Edwards Checked By: T. Holcomb

Boring No: 2
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 395.5
Upon Completion 408.5

| Elevation | N | Qu tsf | w % | Elevation | N | Qu tsf | w % |
|---|---|---|---|---|---|---|---|
| Ground Surface 411.5 | | | | clay (continued) | | | |
| 0 | | | | | | | |
| 1" A-3 Surface over 4" Gravel 411.0 | | | | | | | |
| Brown Sandy CLAY (A-6) with sand | 8 | -- | 22 | -25 | 23 | 4.3B | 17 |
| | 4 | 1.0S | 26 | | 24 | 4.0B | 16 |
| -5 | | | | 382.5 | | | |
| 404.5 | 7 | 2.3B | 20 | Gray Fine to Medium SAND (A-2-4) | 27 | 1.9B | 18 |
| Gray Silty CLAY (A-6) with sand | | | | -30 | | | |
| -10 | 6 | 2.2B | 20 | | | | |
| 399.5 | 5 | 1.6B | 21 | | 44 | -- | 12 |
| Brown Clayey SAND (A-2-4) with clay seams | | | | -35 | | | |
| | 18 | -- | 16 | 373.0 | | | |
| -15 | | | | Gray Sandy CLAY (A-6) | | | |
| 394.5 | 25 | -- | 18 | -40 | 25 | 3.5B | 18 |
| Brown Sandy CLAY (A-6) | | | | | | | |
| 393.0 | | | | | | | |
| Gray Silty CLAY (A-6) with sand lenses | 30 | 2.5S | 12 | | | | |
| -20 | | | | | | | |
| | 30 | 5.1B | 15 | | | | |

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%
B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer

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| Elevation | N | Qu tsf | w % | Elevation | N | Qu tsf | w % |
|---|---|---|---|---|---|---|---|
| sandy clay (continued) | 17 | 3.1B | 17 | clay (continued) | | | |
| -45 | | | | | | | |
| | | | | 341.5 -70 | 6 | -- | 25 |
| | | | | End of Boring @ -70.0' | | | |
| -50 | 24 | 4.3B | 17 | | | | |
| | | | | -75 | | | |
| -55 | 25 | 3.7B | 22 | | | | |
| | | | | -80 | | | |
| -60 | 22 | 2.8B | 21 | | | | |
| | | | | -85 | | | |
| 348.0 | | | | | | | |
| Gray Mottled Brown Silty CLAY (A-6) with fine sand | | | | | | | |
| -65 | 16 | 3.1B | 19 | | | | |

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%
B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer

*BORING 2*

| | | | | |
|---|---|---|---|---|
| FILE NAME = 100059-sht-bridge.dgn | USER NAME = | DESIGNED - D.W.T. | REVISED - | **STATE OF ILLINOIS EDWARDS COUNTY HIGHWAY DEPARTMENT** |
| HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000969 | | CHECKED - S.W.M. | REVISED - | |
| | PLOT SCALE = | DRAWN - D.A.B. | REVISED - | |
| | PLOT DATE = 5/23/2011 | CHECKED - S.W.M. | REVISED - | |

**BORINGS**
**STRUCTURE NO. 024-3139**
SHEET NO. 9 OF 9 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 25 | 09-02117-00-BR | EDWARDS | 13 | 13 |
| ROAD DISTRICT #2 | | CONTRACT NO. 95661 | | |
| | ILLINOIS FED. AID PROJECT | | | |