# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Two Materials
Selby Twp. - SW 1/4 Sec 1 - T16N, R10E

Units English
Bridge Foundation
Boring Log

Sh. 1 of 2

PROJECT _____ BRIDGE I-80 Eastbound over Date 03/29/96
ROUTE FAI 80 Brush Creek Bored By B. Montgomery
SEC. 06-07B & 06-07F STA. 1612 + 97.40 Checked By T. Bratt
COUNTY Bureau
Boring No. B-9
Sta 1612 + 50
O/S 8' Lt

Surf Wat El. 167.4
Grndwater El.
at Compl Wash
At 24 Hrs 168.2

| DEPTH | N | Qu t/sf | W % |
|---|---|---|---|
| **Ground Surface 200.2** 0 | | | |
| Broken Concrete & Bituminous | | | |
| VERY STIFF gray CLAY LOAM | 4 4 5 | 3.7 B | 18 |
| -5 | | | |
| VERY STIFF gray CLAY TILL | 4 6 8 | 4.5 B | 14 |
| STIFF gray CLAY TILL with SILT lenses | 4 6 6 | 1.2 B | 16 |
| -10 | | | |
| HARD tan SILTY CLAY LOAM TILL | 7 6 6 | 5.7 B | 14 |
| STIFF tan/gray SILTY LOAM, oxidized & mottled | 4 6 11 | 1.5 B | 20 |
| -15 | | | |
| STIFF tan SILT | 4 5 7 | 1.7 S | 22 |
| STIFF tan SILT | 5 6 7 | 1.7 B | 21 |
| -20 | | | |
| STIFF tan/gray SILTY CLAY, mottled | 4 5 7 | 1.7 B | 23 |
| | next column | | |

| DEPTH | N | Qu t/sf | W % |
|---|---|---|---|
| MEDIUM black SILT 9.4% organics | 3 5 6 | 1.0 B | 32 |
| -25 | | | |
| MEDIUM black SILT 10.6% organics bottom 2" SAND | 3 3 5 | 0.7 S | 43 |
| MEDIUM gray SAND & GRAVEL | 3 5 7 | | |
| -30 | | | |
| SOFT gray SILT very moist & plastic | 0 2 8 | 0.5 B | 27 |
| First Encounter V | | | |
| MEDIUM gray SAND & GRAVEL | 3 10 12 | | |
| -35 | | | |
| MEDIUM gray fine grained SAND, very fluid | 8 12 15 | | |
| DENSE gray fine grained SAND | 14 20 19 | | |
| Begin Wash -40 | | | |
| DENSE gray SAND | 19 19 18 | | |
| MEDIUM gray SAND | 13 13 12 | | |
| -45 | | | |

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Units English
Project _____
Route FAI 80
Sec. 06-07B & 06-07F
County Bureau

Sh. 2 of 2

Boring No. B-9
Sta 1612 + 50
O/S 8' Lt

| | El. | N | Qu t/sf | W % |
|---|---|---|---|---|
| HARD gray CLAY TILL | -45 | 8 11 15 | 5.2 B | 14 |
| 4/2/96 | | | | |
| MEDIUM gray SAND | | 4 6 10 | | |
| | -50 | | | |
| MEDIUM gray SAND | | 12 12 15 | | |
| VERY DENSE gray SAND hard drilling | | 8 12 100/2" PEN | | |
| | -55 | | | |
| VERY DENSE gray SAND | | 21 26 27 | | |
| HARD gray CLAY TILL | | 12 21 27 | 10.3 B | 10 |
| END OF BORING | -60 | | | |
| | -70 | | | |
| | -70 | | | |
| | -75 | | | |
| | -80 | | | |
| | -85 | | | |
| | -90 | | | |
| | -95 | | | |

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District Two Materials
Selby Twp. - SW 1/4 Sec 1 - T16N, R10E

Units English
Bridge Foundation
Boring Log

Sh. 1 of 2

PROJECT _____ BRIDGE I-80 Eastbound over Date 01/02/95
ROUTE FAI 80 Brush Creek Bored By B. Montgomery
SEC. 06-07B & 06-07F STA. 1612 + 97.40 Checked By T. Bratt
COUNTY Bureau
Boring No. B-10
Sta 1613 + 50
O/S 20' Lt EB CL

Surf Wat El. 169.0
Grndwater El.
at Compl _____
At 24 Hrs 163.6

| DEPTH | N | Qu t/sf | W % |
|---|---|---|---|
| **Ground Surface 178.6** 0 | | | |
| SOFT black SILTY LOAM dry & crumbly | | 0.5 E | 25 |
| SOFT Same as above | 8 10 9 | 0.5 E | 21 |
| SOFT black SILTY LOAM contains shells very plastic 10.3% Organics | 1 2 2 | 0.5 P | 48 |
| gray SAND & GRAVEL w/some large GRAVEL pieces | 3 9 8 | | |
| First Encounter V -10 | | | |
| gray fluid SAND, very uniform & fine | 1 1 1 | | |
| gray fine SAND & GRAVEL at base | 3 7 6 | | |
| -15 | | | |
| Same as above | 8 9 10 | | |
| Same as above | 8 8 12 | | |
| -20 | | | |
| HARD gray SILTY CLAY TILL | 8 12 18 | 4.6 B | 14 |
| | next column | | |

| DEPTH | N | Qu t/sf | W % |
|---|---|---|---|
| HARD Same as above | 11 16 16 | 4.3 B | 16 |
| -25 | | | |
| VERY STIFF Same as above, contains GRAVEL lenses | 5 12 15 | 3.3 B | 14 |
| VERY STIFF Same as above | 8 10 12 | 4.0 B | 16 |
| -30 | | | |
| VERY STIFF Same as above | 14 14 12 | 4.0 B | 16 |
| VERY STIFF Same as above | 25 44 45 | 4.0 B | 16 |
| -35 | | | |
| VERY STIFF Same as above sample deformed, unable to Rimac | 20 35 43 | 2.5 P | 14 |
| VERY STIFF Same as above | 17 27 36 | 4.4 B | 10 |
| -40 | | | |
| VERY STIFF Same as above | 18 25 32 | 4.4 B | 13 |
| VERY STIFF Same as above | 12 26 35 | 3.3 B | 10 |
| -45 | | | |

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Units English
Project _____
Route FAI 80
Sec. 06-07B & 06-07F
County Bureau

Sh. 2 of 2

Boring No. B-10
Sta 1613 + 50
O/S 20' Lt EB CL

| | El. | N | Qu t/sf | W % |
|---|---|---|---|---|
| HARD gray CLAY TILL w/large pebbles | -45 | 7 17 17 | 4.5 B | 11 |
| Same as above | | 10 14 22 | 3.0 B | 12 |
| -50 | | | | |
| VERY STIFF Same as above | | 5 8 16 | 2.8 B | 13 |
| VERY STIFF Same as above | | 5 9 14 | 2.8 B | 13 |
| -55 | | | | |
| VERY STIFF Same as above | | 12 11 13 | 3.2 B | 14 |
| VERY SOFT gray SILT very moist & plastic | | 1 2 5 | 0.2 P | 26 |
| -60 | | | | |
| MEDIUM gray SILTY CLAY TILL | | 1 3 5 | 3.2 B | 23 |
| MEDIUM gray SILTY CLAY TILL | | 2 5 8 | 3.2 B | 21 |
| -65 | | | | |
| tan SILTY CLAY TILL weathered LIMESTONE fragments | | 3 5 8 | 1.8 B | 22 |
| END OF BORING | | | | |
| | -70 | | | |
| | -70 | | | |
| | -75 | | | |
| | -80 | | | |
| | -85 | | | |
| | -90 | | | |
| | -95 | | | |

| | |
|---|---|
| DESIGNED - | SP |
| CHECKED - | PDF |
| DRAWN - | SP |
| CHECKED - | PDF |

TY·LIN INTERNATIONAL

BORING LOGS -4
STRUCTURE NO. 006-0170 EB
STRUCTURE NO. 006-0171 WB

| SHEET NO. 57 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 59 SHEETS | 80 | * | BUREAU | 349 | 151 |
| | | | CONTRACT NO. 66908 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | | |

*06-07BR & BR-1,7VB-M, 6BR & 6, 7 RS-1 & II