

BRIDGE FOUNDATION BORING LOG
 BRIDGE Mannheim Road Date 1-22-71
 ROUTE FA-45 Over C.M.St.P.&P.R.R. Dored By J.E. & R.H. Checked By S.S. & R.B.
 COUNTY Cook
 Doring No. SB-20
 Station See Sheet 2
 Offset

| Elevation | N | Qu 1/2 ft. | w (%) | Surface Water El. | Groundwater El. at Completion | After Hours |
|------------|-----|------------|-------|-------------------|-------------------------------|-------------|
| 0 | | | | | | |
| 12 | 2.3 | 18 | | | | |
| -2.5 | | | | | | |
| 10 | 2.0 | 19 | | | | |
| 13 | 2.5 | 17 | | | | |
| -30 | | | | | | |
| 14 | 2.9 | 14 | | | | |
| -10 | | | | | | |
| 6 | 0.5 | 34 | | | | |
| -35 | | | | | | |
| 87 | 2.8 | 16 | | | | |
| -15 | | | | | | |
| 15 | 2.0 | 16 | | | | |
| -40 | | | | | | |
| 13 | 2.6 | 20 | | | | |
| -20 | | | | | | |
| 11 | 2.1 | 19 | | | | |
| -45 | | | | | | |
| 37 | 6.1 | 21 | | | | |
| 39 | 5.1 | 17 | | | | |
| -50 | | | | | | |
| 56 | 5.2 | 13 | | | | |
| 100 for 5" | | 12 | | | | |
| -55 | | | | | | |

BRIDGE FOUNDATION BORING LOG
 BRIDGE Mannheim Road Date 1-21-71
 ROUTE FA-45 Over C.M.St.P.&P.R.R. Dored By J.E. & R.H. Checked By S.S. & R.B.
 COUNTY Cook
 Doring No. SB-21
 Station See Sheet 2
 Offset

| Elevation | N | Qu 1/2 ft. | w (%) | Surface Water El. | Groundwater El. at Completion | After 25 Hours |
|-----------|------|------------|-------|-------------------|-------------------------------|----------------|
| 0 | | | | | | |
| 20 | 2.9 | 18 | | | | |
| -25 | | | | | | |
| 11 | 2.8 | 17 | | | | |
| 17 | 2.3 | 17 | | | | |
| -30 | | | | | | |
| 21 | 1.2 | 17 | | | | |
| -10 | | | | | | |
| 32 | 3.1 | 16 | | | | |
| -35 | | | | | | |
| 122 | | 15 | | | | |
| -15 | | | | | | |
| 5 | 1.0 | 23 | | | | |
| -40 | | | | | | |
| 18 | 2.8 | 13 | | | | |
| -20 | | | | | | |
| 26 | 4.1 | 12 | | | | |
| -45 | | | | | | |
| 33 | 7.0 | 12 | | | | |
| 39 | 6.8 | 12 | | | | |
| -50 | | | | | | |
| 35 | 8.0 | 10 | | | | |
| 68 | 10.1 | 8 | | | | |
| -55 | | | | | | |
| 102 | | 8 | | | | |
| -60 | | | | | | |

BRIDGE FOUNDATION BORING LOG
 BRIDGE Mannheim Road Date 1-20-71
 ROUTE FA-45 Over C.M.St.P.&P.R.R. Dored By J.E. & R.H. Checked By R.B. & S.S.
 COUNTY Cook
 Doring No. SB-22
 Station See Sheet 2
 Offset

| Elevation | N | Qu 1/2 ft. | w (%) | Surface Water El. | Groundwater El. at Completion | After Hours |
|-----------|-----|------------|-------|-------------------|-------------------------------|-------------|
| 0 | | | | | | |
| 14 | 2.9 | 20 | | | | |
| -25 | | | | | | |
| 14 | 3.5 | 21 | | | | |
| 13 | 3.2 | 22 | | | | |
| -30 | | | | | | |
| 13 | 3.5 | 21 | | | | |
| -10 | | | | | | |
| 22 | 3.9 | 18 | | | | |
| -35 | | | | | | |
| 89 | | 17 | | | | |
| -15 | | | | | | |
| 63 | 5.6 | 16 | | | | |
| -40 | | | | | | |
| 16 | 4.8 | 16 | | | | |
| -20 | | | | | | |
| 33 | 5.2 | 16 | | | | |
| -45 | | | | | | |
| 31 | 4.9 | 16 | | | | |
| 42 | 5.6 | 13 | | | | |
| -50 | | | | | | |
| 46 | 5.3 | 12 | | | | |
| 77 | 7.9 | 10 | | | | |
| -55 | | | | | | |
| 90 | 8.8 | 9 | | | | |
| -60 | | | | | | |

BRIDGE FOUNDATION BORING LOG
 BRIDGE Mannheim Road Date 1-19-71
 ROUTE FA-45 Over C.M.St.P.&P.R.R. Dored By J.E. & R.H. Checked By S.S. & R.B.
 COUNTY Cook
 Doring No. SB-23
 Station See Sheet 2
 Offset

| Elevation | N | Qu 1/2 ft. | w (%) | Surface Water El. | Groundwater El. at Completion | After Hours |
|-----------|-----|------------|-------|-------------------|-------------------------------|-------------|
| 0 | | | | | | |
| 13 | 2.9 | | | | | |
| -25 | | | | | | |
| 13 | 4.5 | | | | | |
| 14 | 3.3 | | | | | |
| -30 | | | | | | |
| 13 | 3.1 | | | | | |
| 36 | | | | | | |
| -35 | | | | | | |
| 154 | 8.8 | | | | | |
| -15 | | | | | | |
| 78 | 6.9 | | | | | |
| -40 | | | | | | |
| 22 | 5.5 | | | | | |
| -20 | | | | | | |
| 31 | 6.0 | | | | | |
| -45 | | | | | | |
| 35 | 6.3 | | | | | |
| 42 | 7.1 | | | | | |
| -50 | | | | | | |
| 55 | 8.1 | | | | | |
| 165 | | | | | | |
| -55 | | | | | | |

KEY TO NOTATION:
 N - Standard Penetration Test - blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 pound hammer falling 30"
 Qu - Unconfined Compressive Strength - tons/sq. ft.
 w - Water Content - percentage of oven dry weight - %

| REVISIONS | NAME | DATE |
|-----------|------|------|
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 SOIL BORING LOGS SB-20, SB-21, SB-22 & SB-23
 FAP 330 US 12/45 (MANNHEIM RD.) OVER 500 LINE RR & FRANKLIN AVE. STRUCTURE NO. 016-2815
 SECTION 465 VB-R-1 STA. 183+33.30
 DATE 7/2009

COOK COUNTY
 DRAWN BY JHR
 CHECKED BY DSB

EARTH TECH | AECOM