ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 361	06-00214-25-BR	KANE	220	128
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

Contract # 63076

MIDLAND STANDARD ENGINEERING & TESTING, INC.

STRUCTURAL BORING LOG

SHEET 1 OF 1

PROJECT Stearns Road Bridge Corridor - Stage 5 — DATE 6/11/08
ROUTE FAP 361 — BORED BY SPE
SECTION 06-00214-25-BR — BRIDGE — CHECKED BY

COUNTY Kane
BORING SB-9
STATION 507+00
OFFSET 91' R of CL

WATER SURFACE EL. -
GROUND WATER AT
COMPLETION none
AFTER - HOURS -

GROUND SURFACE EL. 724.0

Depth	N/6"	Qu tsf	W %
M (Ft)			
Grey Crushed Limestone, CA-06: FILL			
	50/0"	-	5
Brown and Grey CLAY, A-6, hard: FILL			
1			
	7 8 15	4.5+ P	5
(5)			
2	6 8 9	3.75 P	8
Grey CLAY, A-6, stiff to firm: FILL			
3	4 3 4	1.36 B	10
(10)			
4	3 3 3	0.81 B	19
	1 2 3	0.78 B	21
(15)			
5	1 2 3	1.12 B	17
6	3 4 5	1.5 P	15
(20)			

CONTINUED
End of Boring @ 20.0'

Depth	N/6"	Qu tsf	W %
M (Ft)			
7			
(25)			
8			
9			
(30)			
10			
(35)			
11			
12			
(40)			

N-Standard Penetration Test-
Blows per foot to drive 2 inch
O.D. Split Spoon Sampler 12 inches
with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive
Strength (tsf)
W- Water Content-percentage
of oven dry weight (%)
ST- Shelby tube sample

Type failure:
B- Bulge Failure
S- Shear Failure
E- Estimated Value
P-Penetrometer

MIDLAND STANDARD ENGINEERING & TESTING, INC.

STRUCTURAL BORING LOG

SHEET 1 OF 1

PROJECT Stearns Road Bridge Corridor - Stage 5 — DATE 6/11/08
ROUTE FAP 361 — BORED BY SPE
SECTION 06-00214-25-BR — BRIDGE — CHECKED BY

COUNTY Kane
BORING SB-10
STATION 508+00
OFFSET 116' R of CL

WATER SURFACE EL. 713.6
GROUND WATER AT
COMPLETION 3.4'
AFTER - HOURS -

GROUND SURFACE EL. 717.0

Depth	N/6"	Qu tsf	W %
M (Ft)			
Grey Crushed Limestone CA-06 over Grey Crushed Limestone mixed with Grey CLAY, A-6: FILL			
	5 10 15	-	6
1			
Grey GRAVEL, A-1-a: FILL			
	4 5 8	-	9
(5)			
Grey CLAY, A-6, firm: FILL			
2	2 2 2	0.5 P	16
stiff			
3	2 3 3	1.55 B	17
(10)			
soft	1 2 1	0.25 P	12
4			
stiff	2 3 3	1.25 P	14
(15)			
End of Boring @ 15.0'			
5			
6			
(20)			

Depth	N/6"	Qu tsf	W %
M (Ft)			
7			
(25)			
8			
9			
(30)			
10			
(35)			
11			
12			
(40)			

N-Standard Penetration Test-
Blows per foot to drive 2 inch
O.D. Split Spoon Sampler 12 inches
with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive
Strength (tsf)
W- Water Content-percentage
of oven dry weight (%)
ST- Shelby tube sample

Type failure:
B- Bulge Failure
S- Shear Failure
E- Estimated Value
P-Penetrometer

MIDLAND STANDARD ENGINEERING & TESTING, INC.

STRUCTURAL BORING LOG

SHEET 1 OF 1

PROJECT Stearns Road Bridge Corridor - Stage 5 — DATE 6/11/08
ROUTE FAP 361 — BORED BY SPE
SECTION 06-00214-25-BR — BRIDGE — CHECKED BY

COUNTY Kane
BORING SB-11
STATION 508+60
OFFSET 91' R of CL

WATER SURFACE EL. -
GROUND WATER AT
COMPLETION none
AFTER - HOURS -

GROUND SURFACE EL. 725.0

Depth	N/6"	Qu tsf	W %
M (Ft)			
±14" Grey Crushed Limestone, CA-06: FILL			
Brown CLAY, A-6, very stiff: FILL	13 8 6	-	10
1			
Grey Crushed Limestone, CA-06	10 18 13	-	5
(5)			
2	7 3 5	1.75 P	14
Brown and Grey CLAY, A-6, stiff: FILL			
3	3 4 4	1.75 P	19
(10)			
	3 3 4	1.0 P	19
4			
(15)			
5			
6			
(20)			

Depth	N/6"	Qu tsf	W %
M (Ft)			
7			
(25)			
8			
9			
(30)			
10			
(35)			
11			
12			
(40)			

End of Boring @ 12.5'

N-Standard Penetration Test-
Blows per foot to drive 2 inch
O.D. Split Spoon Sampler 12 inches
with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive
Strength (tsf)
W- Water Content-percentage
of oven dry weight (%)
ST- Shelby tube sample

Type failure:
B- Bulge Failure
S- Shear Failure
E- Estimated Value
P-Penetrometer

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS III

STEARNS ROAD (FAP 361) RETAINING WALL
STA. 499+20 TO STA. 508+60
SECTION 06-00214-25-BR KANE COUNTY
STRUCTURE NUMBER 045-7000

SCALE: None — DRAWN BY: C. Cooney
DATE: March 30, 2009 — CHECKED BY: G. Hatlestad

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