ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 361	06-00214-25-BR	KANE	220	126
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 6/12/08
ROUTE FAP 361 — BORED BY SPE
SECTION 06-00214-25-BR — BRIDGE — CHECKED BY

COUNTY Kane
BORING SB-2
STATION 500+00
OFFSET 77' R of CL

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

GROUND SURFACE EL. 740.0

Description	Depth M (Ft)	N/6"	Qu tsf	W %
Grey Crushed Limestone Screenings over CA-06: FILL				
Brown to Brown and Grey CLAY, A-6, very stiff to hard: FILL		9 8 10	4.0 P	15
	1			
		4 8 12	4.26 B	10
	(5)			
	2	10 12 26	6.59 BS	15
		10 12 12	4.5+ P	11
	3 (10)			
few Sand pockets throughout		12 19 30	4.5+ P	10
End of Boring @ 12.5'	4			
	(15)			
	5			
	6 (20)			

Depth M (Ft)	N/6"	Qu tsf	W %
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 6/12/08
ROUTE FAP 361 — BORED BY SPE
SECTION 06-00214-25-BR — BRIDGE — CHECKED BY

COUNTY Kane
BORING SB-3
STATION 501+00
OFFSET 77' R of CL

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

GROUND SURFACE EL. 738.0

Description	Depth M (Ft)	N/6"	Qu tsf	W %
Grey Crushed Limestone, CA-06: FILL				
Brown CLAY, A-6, hard: FILL		9 10 12	8.14 BS	12
	1			
Grey CLAY, A-6, hard: FILL		6 8 12	2.71 S	8
	(5)			
	2	22 10 13	4.5+ P	9
		8 9 10	3.68 B	20
few interbedded Sand pockets	3 (10)			
		6 10 12	3.80 B	9
End of Boring @ 12.5'	4			
	(15)			
	5			
	6 (20)			

Depth M (Ft)	N/6"	Qu tsf	W %
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-4
STATION 502+00
OFFSET 77' R of CL

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

GROUND SURFACE EL. 735.0

Description	Depth M (Ft)	N/6"	Qu tsf	W %
Grey Crushed Limestone, CA-06: FILL				
Grey CLAY, hard, A-6: FILL		50/3"	-	2
	1			
		13 18 19	4.03 S	7
	(5)			
	2	19 13 16	3.91 S	6
few interbedded Sand pockets				
Grey Sandy LOAM, A-2-4, dense: FILL		33 18 15	-	9
	3 (10)			
		10 13 13	-	9
End of Boring @ 12.5'	4			
	(15)			
	5			
	6 (20)			

Depth M (Ft)	N/6"	Qu tsf	W %
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

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I

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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