ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 1 Of 2 — Date 6/13/06

ROUTE FAU 1566 (95th Street) — DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 — STRUCTURE NO. — DRILLED BY KL&ES
COUNTY Cook — LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-1 — Station 212+00 — Offset 8' L — Surface El. +702.03 +/- M.S.L.

Surf. Wat. El. — Groundwater Elev.: When Drilling Dry — at Completion Dry — After — Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
13" BITUMINOUS CONCRETE PAVEMENT				FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Very Stiff to Medium to Very Stiff to Stiff, Moist (A-6)			
1.0				22.0	2		24.7
5" CONCRETE PAVEMENT					3	2.10 B/S	
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff, Moist (A-6)				23.0	5		
2.0		1.75 P	21.8	24.0	3		
3.0					4	2.80 B/S	22.7
FILL: CLAY, Brown and Gray, Trace Dark Gray, Trace Sand and Gravel, Stiff to Very Stiff to Medium to Very Stiff to Stiff, Moist (A-6)	6			25.0	7		
4.0	5	1.50 P	25.6	26.0	3		
(Hit rock at 3.5' to 5')	2				4	1.50 S	19.1
5.0				27.0	5		
6.0	6	1.50 P		28.0			
(Hit rock at 6' to 7.5'--sample disturbed)	5	3.00 P	23.8	29.0	4		
7.0	3				3	1.80 S	17.8
(Dry Density = 99.9 pcf) (Little Dark Gray 7-7.5')		0.50 P		30.0	7		
8.0				31.0			
(Hit rock at 8.5' to 9'-Highly disturbed)	7			32.0	3		
9.0	4	1.75 P	19.7		4	2.50 P	18.6
10.0	4	3.00 P		33.0	6		
				34.0	3	1.20 S	21.6
11.0				35.0	4	2.30 B/S	
(Hit rock at 11' to 12.5')	4			36.0			
12.0	3	2.50 P	18.9		4		
13.0	3			37.0	6	3.00 S	19.0
(No recovery-switched to wider plug in HSA. Took auger sample)				38.0			
14.0	5			39.0	4		
	4	1.00 P	21.1		5	1.50 B	20.2
15.0	3			40.0	6		
(Trace Brick Fragment at 35 feet)				41.0			
16.0	4				7		
	3	1.70 B/S	17.1	42.0	10	1.50 S	12.6
17.0	4						
(Dry Density = 106.0 pcf)							
18.0							
19.0	2						
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff, Moist (A-6)	2	1.40 B/S	19.5				
20.0	5						
21.0							
(Little Black, Trace Fibers Mixed in at 39.5')							

N=Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 2 Of 2 — Date 6/13/06

ROUTE FAU 1566 (95th Street) — DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 — STRUCTURE NO. — DRILLED BY KL&ES
COUNTY Cook — LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-1 — Station 212+00 — Offset 8' L — Surface El. +702.03 +/- M.S.L.

Surf. Wat. El. — Groundwater Elev.: When Drilling Dry — at Completion Dry — After — Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
	18	3.80 S					
43.0				64.0	10	3.80 B/S	12.1
	5				13		
44.0	8	1.60 B/S	17.1	65.0	17	5.20 B/S	
	8						
45.0				66.0			
20" ORGANIC CLAY, Black, Medium, Wet (A-7-5)					9		
46.0	1			67.0	10	4.70 B/S	14.5
	1	0.50 B	52.3		15		
(Dry Density = 73.3 pcf) (Organic Content = 5.3%) (Atterberg Limit)	2		51.4	68.0			
47.0			51.6				
18" ORGANIC CLAY, Dark Gray, Trace Fibers, Medium, Wet (A-7-5)				69.0	5		
48.0					6	4.00 B	14.3
	3	0.50 B	51.3	70.0	11		
49.0	2						
CLAY, Gray, Trace Dark Gray, Soft, Moist (A-7-6)	5	0.43 B	24.0	71.0			
50.0					6		
(Organic Content = 2.2%)					9	3.90 B/S	14.9
CLAY, Gray, Trace Sand and Gravel, Very Stiff to Hard to Very Stiff, Moist (A-6)	1			72.0	12		
51.0	5	2.00 B/S	19.0				
	5			73.0			
52.0							
53.0				74.0	7	2.60 B/S	14.2
	4				7		
54.0	4	1.50 B	18.6	75.0	9	2.10 S	13.5
	7						
55.0				76.0			
56.0					9		
	7				12	4.90 B	12.7
57.0	12	3.80 B/S	15.2	77.0	16		
	13						
58.0				78.0			
59.0	5						
	9	4.50 B/S	16.1	79.0	7		
60.0	12				11	3.00 B	14.4
				80.0	18		
61.0	7						
	10	3.50 B/S	15.5	81.0			
62.0	15						
63.0				82.0			
				83.0			
				84.0			

SILTY CLAY, Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)

CLAY, Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6)
(Contains Coarse Gravel at 76' to 77.5')

End of Boring @ 80.0 Feet

N=Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 1 Of 1 — Date 6/12/06

ROUTE FAU 1566 (95th Street) — DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 — STRUCTURE NO. — DRILLED BY KL&ES
COUNTY Cook — LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-3 — Station 213+65 — Offset 12' L — Surface El. +703.75 +/- M.S.L.

Surf. Wat. El. — Groundwater Elev.: When Drilling Dry — at Completion Dry — After — Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
12" BITUMINOUS CONCRETE PAVEMENT				24" PEAT, Dark Brown, Fiberous, Soft, Wet (A-8)			
1.0				22.0	2		284.3
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Very Stiff to Hard, Moist (A-6)	2			(Dry Density 18.4 pcf)	2		
2.0	2	1.30 S	23.0	23.0	3		
3.0	3						
	4			24.0	1	0.20 B	21.0
4.0	5	3.50 S	18.1		2		
(Dry Density 108.7 pcf) (Combined Analysis) (Amerberg Limit)	7			25.0	4	3.30 B/S	18.4
5.0							
6.0	3	2.75 P		26.0	2	1.20 B/S	
(3" Fill: Sandy Clay at 6'9" to 7')	2	0.25 P	23.2		3		23.0
7.0	3		19.0	27.0	3	1.50 B/S	
		5.10 S					
8.0				28.0			
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Medium to Soft to Medium, Moist (A-6)	2				3		
9.0	2	2.50 B/S	22.3	29.0	4	1.10 B	19.8
(Dry Density 103.6 pcf)	3				5		
10.0				30.0			
11.0	1				5		
	2	0.60 B/S	25.4	31.0	5	3.30 B/S	15.6
12.0	4				9		
13.0				32.0			
	1				4		
14.0	2	0.43 B/S	22.5	33.0	4	3.10 B	18.8
15.0	3				6		
(Low Recovery--Hit rock while sampling at 16.5'-17.5')				34.0			
16.0	4				4		
	8	0.43 B/S	24.1	35.0	6	4.40 B/S	15.5
17.0	7				6		
18.0				36.0			
	2						
19.0	1	0.50 B/S	23.5	37.0	4		
	3				6	2.80 B/S	17.0
20.0				38.0	8		
21.0							
(Trace Dark Gray at 20 feet)				39.0			
				40.0			
				End of Boring @ 40.0 feet			
				41.0			
				42.0			

N=Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 1 Of 2 — Date 6/12/06

ROUTE FAU 1566 (95th Street) — DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 — STRUCTURE NO. — DRILLED BY KL&ES
COUNTY Cook — LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-2 — Station 212+85 — Offset 9.5' L — Surface El. +702.77 +/- M.S.L.

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
14" BITUMINOUS CONCRETE PAVEMENT							
1.0				22.0	3		
2" CRUSHED STONE BASE COURSE					3	1.50 S	23.1
FILL: SILTY CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Very Stiff to Hard, Moist (A-6)	2			23.0	5		
2.0	3	1.90 B/S	19.8	24.0	3		
3.0	3				3	1.60 S	21.7
	2			25.0	5		
4.0	2	2.70 B/S	20.1				
(Dry Density = 109.1 pcf) (Combined Analysis)	3			26.0			
5.0					3		
6.0	4			27.0	3	2.10 B/S	20.2
	3	5.00 B/S	16.7		4		
7.0	6		22.4	28.0		1.25 P	21.9
FILL: CLAY, Brown, Gray and Dark Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)				29.0	4		
8.0					5	1.50 B/S	20.2
	2	1.50 P	24.8	30.0	5		
9.0	2			31.0			
FILL: CLAY, Gray, Trace Dark Gray, Trace Sand and Gravel, Stiff, Moist (A-6)		0.50 P	45.3				
10.0	2			32.0	3		
FILL: PEAT, Dark Brown and Dark Gray, Some Gray Clay, Trace Sand, Medium, Wet (A-8)					5	2.70 S	19.9
11.0				33.0	6		
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Stiff to Medium, Moist (A-6)	2						
12.0	2	1.10 B/S	19.5	34.0	3		
	3				5	2.80 B/S	16.5
13.0				35.0	7		
(Atterberg Limits)	2						
14.0	2	0.90 B/S	20.8	36.0			
	2				6		
15.0				37.0	6	2.40 B/S	18.0
16.0					8		
FILL: CLAY, Brown and Gray, Little to Trace Dark Brown, Trace Sand and Gravel, Very Stiff to Hard to Stiff, Moist (A-6)	2			38.0			
17.0	3	2.00 P	20.2		3		142.3
	4	4.00 P		39.0			
18.0					6	0.50 B	44.2
	2			40.0			
19.0	3	1.50 S	18.1				
(Dry Density = 106.1 pcf)	5			41.0			
20.0					2		
21.0					3	0.52	21.9

N=Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

Page 2 Of 2 — Date 6/12/06

ROUTE FAU 1566 (95th Street) — DESCRIPTION Proposed Improvements (Contract No. 62377)
SECTION 29R-N-1 — STRUCTURE NO. — DRILLED BY KL&ES
COUNTY Cook — LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-2 — Station 212+85 — Offset 9.5' L — Surface El. +702.77 +/- M.S.L.

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
	4	B					
43.0				64.0	7	2.70 B/S	
SANDY CLAY, Gray, Medium, Moist (A-6)	3				9		12.9
	3	0.62 B/S	18.7	65.0	12	4.90 B/S	
(Dry Density = 117.2 pcf)	4						
45.0				66.0			
46.0					13		
CLAY, Gray, Trace Sand and Gravel, Very Stiff to Hard, Moist (A-6)	4			67.0	15	8.10 B/S	13.3
	5	2.30 B/S	14.9		16		
(Dry Density = 115.8 pcf)	7			68.0			
48.0							
49.0	6			69.0	9		
	10	5.20 B/S	15.9		10	4.30 B/S	13.8
50.0	12			70.0	14		
(Dry Density = 118.9 pcf)							
51.0				71.0			
52.0	6						
	8	5.00 B/S	16.2	72.0			
53.0	9						
				73.0			
54.0	7						
	12	5.10 B/S	13.0	74.0			
55.0	13						
(Dry Density = 119.7 pcf)				75.0			
56.0							
57.0	5			76.0			
	7	4.00 B	14.8				
58.0	9			77.0			
59.0	5			78.0			
	8	4.30 B	14.3				
60.0	12			79.0			
61.0	9			80.0			
	9	3.60 B/S	14.0				
62.0	13			81.0			
63.0							
				82.0			
				83.0			
				84.0			

(Dry Density = 121.6 pcf)

(Dry Density = 123.5 pcf)

End of Boring @ 80.0 feet

N=Standard Penetration Test-Blows per foot to drive 2° O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

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STRUCTURE BORING LOG

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SECTION 29R-N-1 — STRUCTURE NO. — DRILLED BY KL&ES
COUNTY Cook — LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. SB-4 — Station 214+45 — Offset 17' L — Surface El. +704.82 +/- M.S.L.

Surf. Wat. El. — Groundwater Elev.: When Drilling 25.5' — at Completion 19.33' — After — Hrs

DEPTH	BLOWS	QU TSF	W %	DEPTH	BLOWS	QU TSF	W %
11" BITUMINOUS CONCRETE PAVEMENT				SILTY CLAY, Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)			
1.0				22.0	5		
2" CRUSHED STONE BASE COURSE					8	3.00 B	14.3
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Stiff, Moist (A-6)	4			23.0	9		
2.0	4	3.50 B	13.6	24.0	3		
	5				5	2.40 B	15.3
3.0					7		
4.0	2	2.25 P		25.0			
(Dry Density = 119.5 pcf) (Combined Analysis)	2		21.2	26.0			
5.0	2	1.50 P			8		
SANDY LOAM, Brown and Gray, Some Gravel, Medium Dense, Saturated (A-2-4)				27.0	5	2.90 B	20.5
6.0					6		
(Grain Size)	2			28.0			12.9
7.0	2	1.50 B/S	19.3				
SILTY CLAY LOAM, Gray, Little Sand, Trace Gravel, Very Stiff, Moist (A-6)	4			29.0	3		
(Dry Density = 109.4 pcf)					4	3.40 B	14.1
8.0				30.0	6		
9.0	2						
	3	0.60 B	26.7	31.0	6		
10.0	6				7	2.50 B	15.5
30" CLAY (Transition Material), Dark Gray, Trace Brown, Trace Sand and Gravel, Medium, Moist (A-6)				32.0	8		
11.0							
(Dry Density = 93.4 pcf) (Organic Content = 2.6%)	3			33.0			
12.0	5	3.60 B/S	20.1		6		
CLAY, Brown and Gray, Trace Sand and Gravel, Very Stiff to Hard to Stiff, Moist (A-6)	7			34.0	7		19.9
13.0					15		13.9
(Dry Density = 102.64 pcf)	5			35.0			
14.0	6	6.80 B/S	20.3				
(Trace Dark Gray at 13.5'-14')	9			36.0	6		
15.0					10		16.4
16.0	9			37.0	11	4.10 S	12.8
(Hit rock--Low recovery)	10	1.50 P	24.7				
17.0	15			38.0			
18.0					7		
	5			39.0	5	2.20 B	14.7
19.0	6	6.40 B/S	12.4		8		
CLAY, Brownish Gray, Trace Sand and Gravel, Hard, Moist (A-6)	9			40.0			
20.0							
(Dry Density = 123.5 pcf)				41.0			
21.0							
				42.0			

SILT, Gray, Medium Dense, Moist (A-4)
(Dry Density = 109.8 pcf)

SANDY LOAM, Brownish Gray, Some Gravel, Medium Dense, Saturated (A-1-b)
(Grain Size)
(SANDY CLAY LOAM (A-6), Brownish Gray, Little Gravel at 36'-36.5'--Grain Size)

CLAY, Brownish Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6)
(Dry Density = 124.2 pcf)

End of Boring @ 40.0 feet

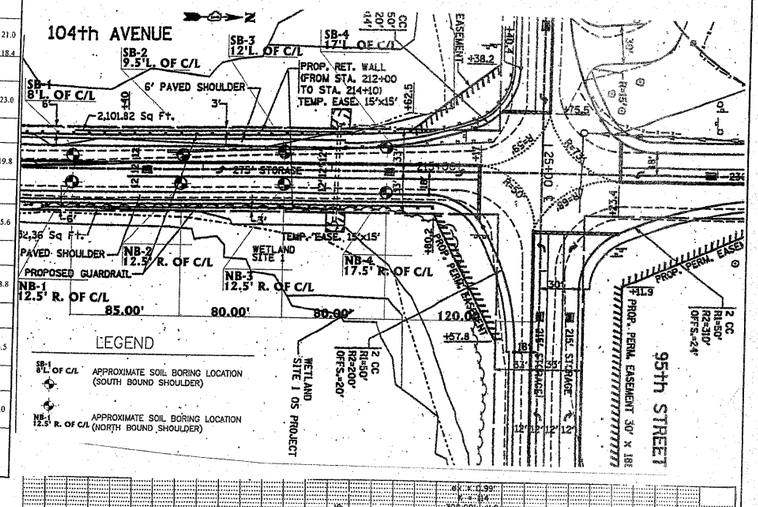
N=Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

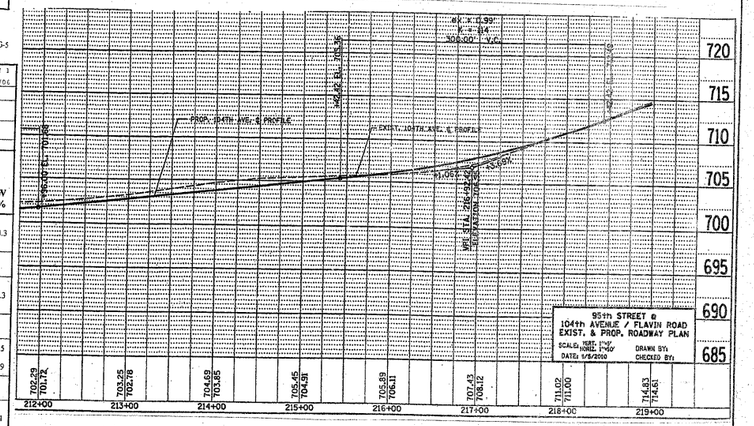
(QU)B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet Offset is from Centerline of Existing Road

SEECO Job No. 7891G-5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	56
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D1-91-026-02	CONTRACT NO. 62377			

SHEET S7 OF S7





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

95TH STREET AT 104TH AVENUE/FLAVIN ROAD NORTHBOUND AND SOUTHBOUND RETAINING WALLS SOIL BORINGS

SCALE: VERT. HORIZ.

DRAWN BY : MVT
CHECKED BY:

6/7/2010
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