F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	•	MADISON	420	297
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 60-10K-1, 60-10HB CONTRACT NO. 76709

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 4/15/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #2 NW Ramp Station 1352+55 (I-55/70) Offset 63.00ft RT Ed. Pav. (I-55/70) Ground Surface Elev. 560.5 ft

Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 534.5 ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Gray Silty Clay LOAM			2 / 2 / 3	0.8 / S/20	28
		-5	2 / 3 / 3	1.8 / S/20	27
			0 / 2 / 3	1.2 / S/20	33
	551.0	-10	0 / 2 / 2	0.8 / S/20	34
Brown Silty LOAM			0 / 2 / 3	1.2 / S/10	58
		-15	0 / 2 / 2	0.9 / S/20	31
	543.5		0 / 3 / 4	1.6 / S/20	29
Brown Silty CLAY		-20	2		
Brown Silty CLAY (continued)			2 / 3 / 3	0.8 / S/20	31
			2 / 3 / 3	1.5 / S/20	30
		-25	0 / 3 / 3	1.1 / S/20	26
			3 / 6 / 7	2.9 / S/20	14
		-30	5 / 7 / 9	2.6 / S/20	14
			12 / 24 / 20	4.0 / S/5	18
		-35	12		
		-40	4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 4/15/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #2 NW Ramp Station 1352+55 (I-55/70) Offset 63.00ft RT Ed. Pav. (I-55/70) Ground Surface Elev. 560.5 ft

Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 534.5 ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Brown Silty CLAY (continued)			8 / 11	3.8 / S/10	20
		-45	5 / 9 / 14	3.8 / S/15	19
		-50	6 / 12 / 16	3.6 / S/20	19
	509.5				
End of Boring		-55			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 6/16/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #5 SW Ramp Station 1354+08 (I-55/70) Offset 61.00ft RT. Ed. Pav. (I-55/70) Ground Surface Elev. 560.0 ft

Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 542.5 ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Brown Silty LOAM			2 / 2 / 2	1.4 / S/20	28
		-5	2 / 2 / 2	1.3 / S/20	32
			2 / 3 / 3	1.6 / S/20	30
		-10	2 / 2 / 2	1.4 / S/20	30
			0 / 0 / 4	1.3 / S/20	27
	546.0				
Gray Silty LOAM, Sample ST #1, Recovery = 2.5 ft, Qu = 0.5 tsf		-15			
	543.5				
Gray Silty LOAM, Sample ST #2, Recovery = 2.5 ft, Qu = 1.0 tsf					
	541.0				
Gray Silty LOAM		-20			
Gray Silty LOAM (continued), Sample ST #3, Recovery = 2.5 ft, Qu = 1.0 tsf	538.5				
Gray Sandy LOAM, Sample ST #4, Recovery = 2.0 ft, Qu = 1.5 tsf	536.0				
Brown Silty CLAY (Till)		-25	6 / 8 / 12	2.3 / S/20	14
			7 / 14 / 20	5.8 / S/20	13
		-30	6 / 12 / 14	4.0 / S/20	13
		-35	7 / 9 / 17	3.5 / S/15	17
		-40	7		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 6/16/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #5 SW Ramp Station 1354+08 (I-55/70) Offset 61.00ft RT. Ed. Pav. (I-55/70) Ground Surface Elev. 560.0 ft

Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 542.5 ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Brown Silty CLAY (Till) (continued)			14 / 16	4.2 / S/15	17
		-45	8 / 13 / 16	2.8 / S/15	17
		-50	7 / 12 / 18	4.2 / S/15	17
	509.0				
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 4/18/01

ROUTE FAP 586 DESCRIPTION IL 162 over FAI 55/70 @ Troy LOGGED BY Mark Denton

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0139 Station ____

BORING NO. 7 W Abutment Station 21+22 Offset 31.00ft LT Ground Surface Elev. 581.00 ft

Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 559.5 ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Asphalt Shoulder Fill Sand & Rock	579.0				
Gray Silty CLAY (fill) Bridge Core			3 / 4 / 5	2.6 / S/10	24
		-5	4 / 6 / 7	3.1 / S/15	23
			4 / 7 / 9	2.0 / S/10	28
		-10	4 / 8 / 10	3.1 / S/15	22
			5 / 6 / 7	1.9 / S/15	20
		-15	5 / 6 / 7	2.1 / S/15	23
			5 / 7 / 8	3.5 / S/10	25
	562.5				
Dark Gray Silty Clay LOAM	561.5				
Gray Silty CLAY		-20			
Gray Silty CLAY (continued)	559.5		4 / 6 / 8	1.8 / S/10	28
Gray Silty Clay LOAM			1 / 2 / 3	0.8 / S/10	30
	557.0				
Gray Silt LOAM		-25	3 / 6 / 7	1.4 / S/15	27
			2 / 3 / 5	1.6 / S/20	29
	551.0	-30	1 / 2 / 3	0.9 / S/20	31
Gray & Brown Silty Clay LOAM			2 / 3 / 8	1.5 / B	27
	544.0				
Dark Gray Silty CLAY		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 4/18/01

ROUTE FAP 586 DESCRIPTION IL 162 over FAI 55/70 @ Troy LOGGED BY Mark Denton

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0139 Station ____

BORING NO. 7 W Abutment Station 21+22 Offset 31.00ft LT Ground Surface Elev. 581.00 ft

Surface Water Elev. ____ ft; Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 559.5 ft; Upon Completion ____ ft; After ____ Hrs. ____ ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Dark Gray Silty CLAY (continued)			4 / 5 / 6	1.9 / S/5	23
		-45	3 / 5 / 5	1.5 / S/10	22
Gray & Brown Clay LOAM	535.0				
		-50	8 / 13 / 17	4.5 / B	13
		-55	4 / 6 / 9	2.9 / S/15	22
	505.0				
End of Boring @ 76 ft					
Gray & Brown Clay LOAM (continued)			5 / 7 / 11	2.4 / S/10	22
		-65	11 / 17 / 23	4.7 / B	16
		-70	7 / 11 / 25	5.7 / B	16
		-75	4 / 8 / 17	2.4 / S/10	18
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

NOTE:

1. Structure Number listed on boring logs as 060-W001 is SN 060-W004.

Sht. R-11 of R-14

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 162 OVER I-55/70 IN TROY
F.A.I ROUTE 70 SECTION 60-10K-1, 60-10HB
MADISON COUNTY STA. 18+50 TO STA. 17+00
STRUCTURE NO. 060-W004

BORING LOGS

DATE: 05/2006 DRAWN: BTO CHECKED: JAN