F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10K-1,60-10HB	MADISON	420	284
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 76709

Illinois Department of Transportation — SOIL BORING LOG

Page 1 of 2 — Date 4/19/01

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. 8 Center Pier N of Existing Station 19+87.5 Offset 52.00ft RT Ground Surface Elev. 565.20 ft
Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 558.7 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Rock & Sand & Some Concrete Rubble			
563.7			
Brown & Gray Silty Clay LOAM	1		
	2	1.0	
	3	S/20	29
-5	2		
	3	1.1	
	3	B	28
	2		
	4	1.7	
	4	S/15	27
-10	2		
	2	1.5	
	3	S/15	32
553.7			
Gray Silty CLAY	2		
	2	1.0	
	2	S/15	39
-15	2		
	2	0.9	
	3	S/15	44
	2		
	3	1.1	
	5	S/15	29
546.2			
Gray CLAY			
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY (continued)	0	0.5	
	0	S/15	28
	0		
	2		
	3	1.0	
	4	S/10	26
541.2			
Gray Clay LOAM			
-25	2		
	3	0.9	
	5	S/15	26
	6		
	7	2.8	
	11	S/15	14
-30	5		
	11	4.2	
	20	B	13
	7		
	11	4.6	
	18	B	20
528.2			
Brown & 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

Page 2 of 2 — Date 4/19/01

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. 8 Center Pier N of Existing Station 19+87.5 Offset 52.00ft RT Ground Surface Elev. 565.20 ft
Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 558.7 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown & Gray Silty CLAY (continued)	8	1.9	
	7	S/5	23
	10		
523.2			
Brown Clay LOAM			
-45	6		
	8	3.1	
	13	S/10	20
	16		
	27	5.7	
	27	S/15	16
513.2			
Drilled as large Gravel Layer			
512.2			
Gray Clay LOAM	6		
-55	11	3.7	
	17	S/15	17

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Clay LOAM (continued)	4	3.8	
	10	B	21
	12		
503.2			
Gray Silty CLAY with some Wood			
-65	4		
	9	2.0	
	10	S/15	25
-70	7		
	8	2.4	
494.2	12	S/15	23
End of Boring @ 71 ft			
-80			

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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. 9 Center Pier S End Station 20+11 Offset 58.00ft LT Ground Surface Elev. 565.00 ft
Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 556.5 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Rock Sand Clay Fill			
563.5			
Gray Silty Clay LOAM	1		
	1	0.4	
	2	S/10	36
-5	1		
	2	0.6	
	1	B	31
558.5			
Brown Robine SILT	2		
Burn Results: 11.0% Organics	5	1.5	
	7	S/10	52
Burn Results: 9.5% Organics	3		
-10	6	1.4	
	8	S/15	35
553.5			
Gray Silt LOAM	2		
	4	2.2	
	6	S/10	32
551.0			
Brown Robine SILT	2		
Burn Results: 4.0% Organics	2	0.8	
-15	2	S/15	56
548.5			
Gray CLAY	0		
	1	0.8	
	1	S/15	30
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray CLAY (continued)	0	0.4	
	0	S/10	31
	0		
543.5			
Gray Clay LOAM	0		
	1	1.0	
	2	S/5	24
-35	0		
	2	0.6	
	3	S/10	24
538.5			
Brown Clay LOAM	4		
	10	2.6	
	15	S/10	12
-30	6		
	13	3.7	
	18	S/10	16
533.0			
Brown & Gray Silty CLAY			
-35	5		
	10	2.6	
	12	S/10	20
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Page 2 of 3 — Date 4/20/01

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COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#
STRUCT. NO. 060-0139 Station
BORING NO. 9 Center Pier S End Station 20+11 Offset 58.00ft LT Ground Surface Elev. 565.00 ft
Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 558.5 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown & Gray Silty CLAY (continued)	4	2.6	
	6	S/10	25
	8		
523.0			
Brown Clay LOAM			
-45	8		
	15	5.1	
	15	B	16
-50			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Clay LOAM (continued)	8	4.1	
	10	S/20	20
	14		
Gray Clay LOAM			
-65	5		
	7	3.3	
	12	B	21
498.0			
Gray Silty CLAY with some Organics & Robine Silt Lenses			
-70	6		
	8	2.8	
	10	S/15	22
494.0			
Dark Brown Robine SILT			41
493.0			
Gray Silty CLAY			
-75	3		
	6	2.2	
	8	S/10	25
488.0			
Gray SHALE slighty weathered & ground up			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Illinois Department of Transportation — SOIL BORING LOG

Page 3 of 3 — Date 4/20/01

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Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 558.5 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray SHALE slighty weathered & ground up (continued)	20	NC	
	30		28
	30		
-85	36		
479.5	50/3	3.9	14
End of Boring @ 85.5 ft		S/5	
-90			
-95			
-100			

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Illinois Department of Transportation — SOIL BORING LOG

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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. Station
BORING NO. 10 SW Corner Cone Station 21+11 Offset 109.00ft LT Ground Surface Elev. 564.40 ft
Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 557.4 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty CLAY (till)			
	3		
	4	1.2	
	4	S/10	22
560.4			
Brown & Gray Silty Clay LOAM	3		
-5	4	1.2	
	4	S/20	26
	2		
	2	0.9	
	2	S/10	29
-10	2		
	3	1.8	
	3	B	29
	3		
	2	1.0	
550.9	3	S/10	32
Brown Silty Clay LOAM with Organics 550.4		1.8	
Gray Silty CLAY		S/10	43
-15	0		
	2	0.8	
	2	B	31
547.9			
Gray Clay LOAM	0		
	0	0.4	
	0	S/10	27
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Clay LOAM (continued)	2	1.0	
	3	S/15	23
	5		
	2		
	2	0.9	
	3	S/10	23
-25	4		
	5	1.1	
	7	B	15
	5		
	6	1.0	
	12	B	16
-30	5		
	8	3.4	
	13	B	13
532.4			
Brown & Gray SILT			
-35	25		
	47	3.5	
	50/4	S/5	15
527.4			
Brown Clay LOAM			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Illinois Department of Transportation — SOIL BORING LOG

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BORING NO. 10 SW Corner Cone Station 21+11 Offset 109.00ft LT Ground Surface Elev. 564.40 ft
Surface Water Elev. ft Stream Bed Elev. ft
Groundwater Elev.: First Encounter 557.4 ft Upon Completion ft After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Clay LOAM (continued)	6	3.1	
	8	S/10	22
	12		
-45	8		
	15	4.7	
	22	B	17
-50	9		
	15	4.4	
	22	B	17
-55	8		
	11	5.0	
	19	S/20	18
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Clay LOAM (continued)	5	2.3	
	7	S/10	26
	10		
-65	7		
	8	2.2	
	11	S/10	23
-70	7		
	10	2.3	
493.4	12	S/15	22
End of Boring @ 71 ft			
-75			
-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)

SHT. S-66 OF S-68

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 STATION 499+48.35
STRUCTURE NO. 060-0338

BORING LOGS

DESIGNED: BTO DRAWN: BTO
DATE: 03/06 CHECKED: JAN CHECKED: JAN