ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 338	34BR	IROQUOIS	49	36
STA		TO STA		
FED. ROAD DIST. NO. *	ILLINOIS	FED. AID PROJECT-		

DWG. NO. 13 OF 13

CONTRACT NO. 66610

STRUCTURE INDEX OF SHEETS

General Plan	Dwg. No. 1 of 13
General Data	Dwg. No. 2 of 13
Stage Construction Details	Dwg. No. 3 of 13
Temporary Concrete Barrier	Dwg. No. 4 of 13
Top of Slab Elevations	Dwg. No. 5 of 13
Superstructure	Dwg. No. 6 of 13
Superstructure Details	Dwg. No. 7-8 of 13
Abutments	Dwg. No. 9 of 13
Piers	Dwg. No. 10 of 13
Metal Shell Pile Details	Dwg. No. 11 of 13
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Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

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ROUTE FA 28(US45) DESCRIPTION US ROUTE 45 OVER SPRING CREEK SOUTH OF BUCKLEY Date 8/20/03
SECTION 34 BR LOCATION SW 1/4, SEC. 3, TWP. 24N, RNG. 10E, 3rd PM LOGGED BY IDOT-LM
COUNTY IROQUOIS DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 038-0044 EXISTING
Station 2146+00
BORING NO. 02 NORTH ABUT
Station ~~4146+42~~ 2146+58
Offset 23.50ft ~~RT~~ LT
Ground Surface Elev. 696.89 ft

Surface Water Elev. 686.70 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion 689.9 ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
AUGERED Brown SANDY CLAY LOAM TILL (FILL)			
695.39			
Stiff Brown SANDY CLAY LOAM (FILL)			
-5	2		
	3	1.0	20.0
	2	P	
	2		
-10	2	1.3	23.0
	3	B	
	1		
	3	1.6	18.0
688.89	3	B	
Soft Gray CLAY LOAM			
	2		
-10	1	0.4	28.0
	2	B	
685.89			
Hard Brown SANDY CLAY LOAM TILL			
	3		
	6	7.5	18.0
	11	S	
683.39			
Hard Gray CLAY LOAM TILL			
	4		
-15	8	4.9	17.0
	9	B	
680.89			
Stiff Gray CLAY TILL			
	2		
	3	1.3	23.0
	5	B	
	1		
-20	3	2.0	22.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff Gray CLAY TILL (continued)			
	8	B	
	1		
	3	1.3	25.0
	3	S	
	1		
-35	3	1.3	26.0
	4	B	
	WOH		
-40	1	1.0	26.0
	4	S	
663.89			
Stiff Brown Layers of SILT, CLAY & Fine SAND			
	1		
-35	3	1.1	21.0
	4	B	
	10		
-40	10	-	-

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
Division of Highways
District #3, Ottawa

SOIL BORING LOG

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ROUTE FA 28(US45) DESCRIPTION US ROUTE 45 OVER SPRING CREEK SOUTH OF BUCKLEY Date 8/20/03
SECTION 34 BR LOCATION SW 1/4, SEC. 3, TWP. 24N, RNG. 10E, 3rd PM LOGGED BY IDOT-LM
COUNTY IROQUOIS DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 038-0044 EXISTING
Station 2146+00
BORING NO. 02 NORTH ABUT
Station ~~4146+42~~ 2146+58
Offset 23.50ft ~~RT~~ LT
Ground Surface Elev. 696.89 ft

Surface Water Elev. 686.70 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion 689.9 ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff Brown Layers of SILT, CLAY & Fine SAND (continued)			
655.89			
Very Stiff Brown CLAY LOAM TILL			
	10	-	
	4		
-45	6	2.9	14.0
	8	B	
	11		
-50	13	-	-
	105	-	
647.39			
Dense Brown Fine to Coarse GRAVEL			
643.89			
Medium Gray SANDY LOAM TILL			
	2		
-55	5	0.9	9.0
	4	B	
638.89			
Dense Brown Fine SAND to Coarse GRAVEL to COBBLE SIZE			
	9		
-60	26	-	6.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	22		
End of Boring 638.39			

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
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 2

ROUTE FA 28(US45) DESCRIPTION US ROUTE 45 OVER SPRING CREEK SOUTH OF BUCKLEY Date 8/19/03
SECTION 34 BR LOCATION SW 1/4, SEC. 3, TWP. 24N, RNG. 10E, 3rd PM LOGGED BY IDOT-LM
COUNTY IROQUOIS DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 038-0044 EXISTING
Station 2146+00
BORING NO. 01 SOUTH ABUT
Station ~~2146+81~~ 2146+39
Offset 17.00ft ~~LT~~ RT
Ground Surface Elev. 697.54 ft

Surface Water Elev. 686.70 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 643.5 ft
Upon Completion ft
After 24 Hrs. 685.0 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
AUGERED SHOULDER STONE Over Brown SANDY CLAY LOAM			
696.04			
Very Stiff Brown SANDY CLAY LOAM (FILL)			
	2		
	2	2.2	20.0
	3	S	
694.04			
Stiff Brown & Gray SANDY CLAY LOAM (FILL)			
	2		
-5	2	1.0	19.0
	2	B	
691.54			
Soft Black CLAY LOAM			
	1		
	1	0.3	25.0
	3	B	
	1		
-12	2	0.4	33.0
	3	B	
	WOH		
	WOH	0.3	28.0
	WOH	B	
	WOH		
-15	7		
	-		38.0
682.54			
GROUT & CONCRETE			
681.54			
Stiff Gray CLAY TILL			
	2		
	4	-	-
	5	-	
-20	3	2.0	18.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff Gray CLAY TILL (continued)			
	5	B	
	2		
	2	1.5	25.0
	4	B	
	WOH		
-25	2	1.2	26.0
	3	B	
	1		
	2	1.8	26.0
	4	B	
	WOH		
-30	2	1.1	25.0
	4	B	
	WOH		
	2	1.4	28.0
	3	B	
663.54			
Very Stiff Gray CLAY LOAM TILL			
	1		
-35	3	2.2	17.0
	4	B	
-40	5	3.3	19.0

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

Page 2 of 2

ROUTE FA 28(US45) DESCRIPTION US ROUTE 45 OVER SPRING CREEK SOUTH OF BUCKLEY Date 8/19/03
SECTION 34 BR LOCATION SW 1/4, SEC. 3, TWP. 24N, RNG. 10E, 3rd PM LOGGED BY IDOT-LM
COUNTY IROQUOIS DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 038-0044 EXISTING
Station 2146+00
BORING NO. 01 SOUTH ABUT
Station ~~2145+81~~ 2146+39
Offset 17.00ft ~~LT~~ RT
Ground Surface Elev. 697.54 ft

Surface Water Elev. 686.70 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 643.5 ft
Upon Completion ft
After 24 Hrs. 685.0 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff Gray CLAY LOAM TILL (continued)			
	10	B	
	2		
-45	4	2.9	13.0
	6	B	
649.54			
Very Stiff Brown SANDY LOAM TILL			
	7		
647.54	13	3.3	10.0
Loose Brown Fine SAND	13		
644.54			
Soft Gray SANDY LOAM TILL			
	WOH		
-55	5	0.3	12.0
	8	B	
640.54			
Dense Gray Fine SAND, Slightly LOAMY Coarse GRAVEL (COBBLE SIZE GRAVEL FELT WHILE DRILLING)			
	11		
-60	21	-	9.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	20		
	50		
-65	55	-	8.0
	43		
End of Boring 632.04			

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)

ESCA CONSULTANTS, INC.

DESIGNED BY:	ELH	12/04
DRAWN BY:	RJT	01/05
CHECKED BY:	ELH	04/06
APPROVED BY:	RDP	04/06

SOIL BORINGS
US ROUTE 45 OVER
SPRING CREEK
FAS ROUTE 338-SECTION 34BR
IROQUOIS COUNTY
STATION 2146+00
STRUCTURE NO. 038-0214