F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1)I-1	LA SALLE	60	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 66550

SHEET NO. E7 OF 9 SHEETS

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 11/16/01

ROUTE FAP 627(IL71) DESCRIPTION RETAINING WALL AT TONTI CANYON ON ILLINOIS 71 LOGGED BY K.W.

SECTION (M)W&RS,(I-1,D)R,W&RS RET. WALLS LOCATION SE 1/4, SEC. 22, TWP. 33N, RNG. 2E, 3rd PM

COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. 5 ROCK CORE-2
Station 405+06
Offset 6.50ft LT
Ground Surface Elev. 586.93 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion NONE ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
AUGERED BITUMINOUS PAVEMENT Over Stone Base Over Gray-Brown Weathered SHALE	581.93	-5			
Stiff to Very Stiff Weathered and Reworked Gray SHALE	578.93		1 3 3	2.0 P	22.0
TOP OF ROCK Hard Gray SHALE with Limonite and Secondary Sulfur FRANCIS CREEK SHALE PENNSYLVANIAN SYSTEM	571.43	-10 -15	10 15 -	3.0 P	18.0
Black COAL (COLCHESTER NO. 2)	568.93		2 3 3	- -	-
Dense (Hard) Gray SHALE TRADEWATER FORMATION PENNSYLVANIAN SYSTEM		-20			
Dense (Hard) Gray SHALE TRADEWATER FORMATION PENNSYLVANIAN SYSTEM *(continued)*	558.93	-25	7 18 30	4.5 P	17.0
TOP OF ST. PETER SANDSTONE	556.83	-30	23 100/4" -	- -	7.0
ANCELL GROUP ORDOVICIAN SYSTEM		-35	25 100/1" -	- -	7.0
Borehole continued with rock coring.		-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
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 1 of 1

Date 11/16/01

ROUTE FAP 627(IL71) DESCRIPTION RETAINING WALL AT TONTI CANYON ON ILLINOIS 71 LOGGED BY K.W.

SECTION (M)W&RS,(I-1,D)R,W&RS RET. WALLS LOCATION SE 1/4, SEC. 22, TWP. 33N, RNG. 2E, 3rd PM

COUNTY LASALLE CORING METHOD

STRUCT. NO.
Station

CORING BARREL TYPE & SIZE 5' DOUBLE BARREL
Core Diameter 2.1 in
Top of Rock Elev. 578.93 ft
Begin Core Elev. 556.83 ft

BORING NO. 5 ROCK CORE-2
Station 405+06
Offset 6.50ft LT
Ground Surface Elev. 586.93 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
ST. PETER SANDSTONE, Iron-Stained Yellow Brown to White, Well Cemented Moisture Contents for Qu Samples = 7.5% & 6.5%	556.83	-35	1	100	72		67.5
			2	96	30		151.8
End of Boring	546.73	-40 -45 -50					

Color pictures of the cores Yes
Cores will be stored for examination until 2003
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED BY	Farnsworth GROUP	FILE NO.
J.M.L.	2708 McGraw Drive	24-6772
DRAWN BY	Bloomington, Illinois 61704	DATE
D.J.M.	309/663-8655, 309/663-1571 fax	03-24-05
CHECKED BY		SHEET NO.
M.S.W.		47 of 60

SOIL BORING/ROCK CORE LOGS
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (1-1)I-1
LA SALLE COUNTY
STATION 403+94.31 TO STATION 405+31.53
STRUCTURE NO. 050-W002