STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	**	*	196	196
STA. 420+00.00 TO STA. 454+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* BROWN & SCHUYLER CONTRACT NO. 72432
** 9RS-4, (10,11) RS-3; (10B-1) R
SHEET 123OF 123

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 5/2/07

ROUTE FAP 317 (US 24) DESCRIPTION US 24 Soil Survey LOGGED BY M. Tappan

SECTION 10(B-1)R LOCATION NE 1/4, SEC. 33, TWP. 1 N, RNG. 2 W, 4 PM

COUNTY Brown DRILLING METHOD HSA HAMMER TYPE 140 lb Auto

STRUCT. NO. _____
Station _____

BORING NO. 16
Station 443+50
Offset 81.0ft Lt
Ground Surface Elev. 508.5 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
▽ First Encounter No Encounter ft
▽ Upon Completion Cored ft
▽ After 3 Days Hrs. Dry ft

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown Moist SILTY CLAY LOAM Ref Classification 23-2		1		
		1 2	1.1 B	22
		1		
	5	1 2	0.8 B	24
502.50				
Brown and Gray Moist SAND LOAM w/ angular LS. Clasts CLASSIFICATION 16-1		1		
		4 3	0.7 P	11
456.50				
Brown and Lt Gray Poorly Indurated Fine Grained SANDSTONE		21		
	-10	29		
498.00		65		
Borehole continued with rock coring.				
	-15			
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

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District 6

ROCK CORE LOG

Page 2 of 2

Date 5/2/07

ROUTE FAP 317 (US 24) DESCRIPTION US 24 Soil Survey LOGGED BY M. Tappan

SECTION 10(B-1)R LOCATION NE 1/4, SEC. 33, TWP. 1 N, RNG. 2 W, 4 PM

COUNTY Brown CORING METHOD Water

STRUCT. NO. _____
Station _____

CORING BARREL TYPE & SIZE NQ2WL

BORING NO. 16
Station 443+50
Offset 81.0ft Lt
Ground Surface Elev. 508.5 ft

Core Diameter 1.97 in
Top of Rock Elev. 498.50 ft
Begin Core Elev. 499.00 ft

	DEPTH (ft)	CORE (ft)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Tan & Light Grey to Dark Grey & Grey Very Poorly Indurated Fine Grained SANDSTONE Joints spaced at <2" filled with dark grey shaley clay	499.00 -10	1	56	38		
	496.00					3.5
Dk Grey to V. Dk Grey Very Poorly Indurated Clayey SHALE (Alternating bands of thinly bedded Lt. Grey & V. Dk. seams) Joints spaced at <2"	494.00 -15					6.2
Br and Dk Grey Poorly to Moderately Indurated Fine to Medium Grained SANDSTONE with multiple weathered zones and fractures. Open & Closed Joints Spaced 2" to 12". Open joints filled with Dk Grey shaley clay. 1.6 ft Broken Zone with 0.25" to 1.5" limestone clasts (sandstone conglomerate)		2	100	50		21
Tan & Light Grey Moderately Indurated Fine Grained SANDSTONE. Open joints spaced at 2" to 12"	490.40 -20					85
	-25	3	92	66		259
Tan and Light Grey Cherty LIMESTONE Conglomerate. Very Fractured Void - No Water Return Broken Formation - Jammed Core Barrel	485.40 -25	4	20	0		
Dark Grey & Dark Grey & Brown Very Well Indurated Calcareous SHALE Open joints spaced 2" to 12" filled with cherty limestone. Broke Water Passage Tube - Core hole ran too far from vertical - Abandoned hole	481.20 480.20	5	100	70		226

Color pictures of the cores Y
Cores will be stored for examination until 5 Yrs After Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 128 (Rev. 8-99)

GENERAL NOTES

US 24 OVER LAMOINE RIVER
F.A.P. RTE 317 (US RTE 24) SECTION (10B-1) R
BROWN & SCHUYLER COUNTY