

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	634	1360
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 68200

Time: 05:25 PM

Date: 11/22/2004

Filename: P:\643996\struc\ur\072-8561-Wall #12-sheet\Tracings\BL0001A072-8561.dgn

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWB4-2	STATION: 10+685	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp B-4 SN 072-8561			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 189.88						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q <sub>u</sub> kPa	STRAIN %	WATER CONTENT %
160mm Bituminous Concrete	189.71		0.00-0.16	Auger 3				
			0.30-0.76	305	6-10	163	15	16
Stiff to Very Stiff Br to Gr Clay Loam A-6			1.07-1.52	356	5	239	15	11
			1.83-2.29	356	5-5	192	15	25
	186.98		2.59-3.05	406	8-20			7
Medium Dense to Dense Br Sand A-1-b			3.35-3.81	457	12-21			8
Medium Dense Br Sand A-1-b	185.92		4.11-4.57	406	14-12			10
Stiff to Very Stiff Gr to Br & Gr Clay Loam A-6	185.15	5	4.88-5.33	457	5-6	172	15	22
Stiff Br & Gr Silty Clay Loam A-6	183.63		5.64-6.10	457	7-12	316	15	23
Stiff Br & Gr Silty Clay Loam A-6			6.40-6.86	457	7-7	134	15	26
Medium Dense Br Sand A-1-a	192.41		7.16-7.62	457	11-14			8
	192.11		7.92-8.38	457	17-17			4
Dense Br Sandy Loam A-2-4			8.69-9.14	432	16-23			13
			9.45-9.91	457	15-23			16
		10	10.21-10.67	457	11-19			16
Medium Dense Gr Silt A-4	178.75		10.97-11.43	457	10-15			20
Dense Gr Sandy Loam A-2-4	178.30		11.73-12.19	457	17-20			21
REMARKS * Water introduced into borehole below 14.0m. # Denotes Calibrated Penetrometer Estimate								
WATER	8.5m ELEV.	181.34 DURING DRILLING	CORE SIZE	mm	DATE: Apr 24, 00			
WATER	m ELEV.	AT COMPLETION	CASING LENGTH	m	DRILLER: Fehl			
WATER	*m ELEV.	AFTER HRS.	CASING DIAMETER	mm	INSPECTOR: Shook			

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWB4-2	STATION: 10+685	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp B-4 SN 072-8561			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 189.88						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q <sub>u</sub> kPa	STRAIN %	WATER CONTENT %
	177.23		12.50-12.95	457	11			17
Dense Gr Silt A-4			13.26-13.72	457	12			17
	176.01		14.02-14.48	457	7-10	172	15	18
Stiff to Medium Stiff Br Clay Loam A-6			14.78-15.24	457	7-9	48	15	16
	174.49	15	15.54-16.00	457	7-9	144	15	17
Stiff Br Clay Loam A-6			16.31-16.76	457	6-9	96	15	15
	172.20		17.07-17.53	457	5-6	96	15	17
Medium Dense Gr Sandy Loam A-2-4	171.44		17.83-18.29	457	7-10			27
Medium Dense Gr Silty Loam A-4			18.59-19.05	457	7-7			18
	170.37		19.35-19.81	457	8-11	259	15	13
Very Stiff to Stiff Br Loam A-4		20	20.12-20.57	457	11-16	172	15	13
Very Dense Gr Silt A-4	169.15		20.88-21.34	457	12-46			15
Very Stiff Br Loam A-4	168.39		21.64-22.10	457	13-16	211	15	13
	167.02		22.40-22.86	457	16-21	278	15	13
Boring terminated at 22.9m								
REMARKS * Water introduced into borehole below 14.0m. # Denotes Calibrated Penetrometer Estimate								
WATER	8.5m ELEV.	181.34 DURING DRILLING	CORE SIZE	mm	DATE: Apr 24, 00			
WATER	m ELEV.	AT COMPLETION	CASING LENGTH	m	DRILLER: Fehl			
WATER	*m ELEV.	AFTER HRS.	CASING DIAMETER	mm	INSPECTOR: Shook			

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWB4-3	STATION: 10+708	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp B-4 SN 072-8561			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 189.39						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q <sub>u</sub> kPa	STRAIN %	WATER CONTENT %
150mm Bituminous Concrete	189.24		0.00-0.15	Auger 5				
			0.30-0.76	279	7-9	373	15	10
Very Stiff to Stiff Br Clay Loam A-6			1.07-1.37	381	6-11	239	15	18
			1.83-2.29	457	9-10	259	15	19
	185.73		2.59-3.05	457	8-13	201	15	18
			3.35-3.81	457	10-21	172	15	18
Dense to Medium Dense Br Sand A-1-b			4.11-4.57	457	8-11			8
	183.90	5	4.88-5.33	254	8-9			11
Very Stiff Br to Br & Gr Clay Loam A-6			5.64-6.10	457	4-6	220	15	22
	182.38		6.40-6.86	457	7-10	201	15	18
Medium Dense Gr Sand A-1-a			7.16-7.62	406	13-12			7
Dense Gr & Br Sand A-1-b	181.62		7.92-8.38	381	18-23			4
	180.85		8.69-9.14	330	18-18			7
Dense to Medium Dense Gr & Br Sand A-1-a			9.45-9.91	279	11-16			9
	179.33	10	10.21-10.67	457	18-13			13
Dense to Medium Dense Br to Gr Sandy Loam A-2-4			10.97-11.43	457	9-19			10
	177.35		11.73-12.19	356	14			11
Dense Gr Silt A-4	177.04							
REMARKS * Water introduced into borehole below 11.0m. # Denotes Calibrated Penetrometer Estimate								
WATER	8.5m ELEV.	180.85 DURING DRILLING	CORE SIZE	mm	DATE: Apr 25, 00			
WATER	m ELEV.	AT COMPLETION	CASING LENGTH	m	DRILLER: Fehl			
WATER	*m ELEV.	AFTER HRS.	CASING DIAMETER	mm	INSPECTOR: Shook			

**LEGEND**

A-1 to A-7 Engineering classifications of soil samples in accordance with AASHTO M 145 (and subgroups)

BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

q<sub>u</sub>, kPa Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification.

STRAIN, % Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification).

WATER CONTENT, % Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification.

Penetrometer Estimate An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device.

50 mm ST 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.

Yd Dry unit weight of soil specimen in kilograms per cubic meter.

REC. Length of sample recovered in millimeters.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
BORING LOGS I			
WALL NO. 12 - RAMP B-4 F.A.I. ROUTE 74 SECTION (72-7) R-3 PEORIA COUNTY STA. 10+670 TO STA 10+720 (RAMP B-4) STRUCTURE NUMBER 072-8561			
PARSONS TRANSPORTATION GROUP CHICAGO, ILLINOIS			
DRAWING NO. 4	SCALE N.T.S.	DATE 6/25/04	SHEET NO. 4