

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	15VB-1-R	COOK	243	204
STA. 4+655.229		TO STA. 4+777.600		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

MIRZA ENGINEERING, INC. CHICAGO, ILLINOIS		BORING LOG		BORING NO: B-9				
JOB NO: 9737 CLIENT: CHRISTIAN-ROGE & ASSOCIATES, INC.		STATION: 4+687		OFFSET: 7.8m Lt				
PROJECT: FAU 3578 (Southwest Highway) over B & O CT RR and Stony Creek		SURF ELEV: 180.07		BORING RIG & METHOD: Mobile B-57 w/Hollow Stem Augers				
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _s kPa	STRAIN %	WATER CONTENT %
			0.00-0.30	Auger				18
FILL: Dark Br to Br Clay A-B; Organic matter noted			0.30-0.78	406	2-2	67	15	22
	178.38		1.07-1.52	358	1-1	48	15	22
Very Soft Br & Gr to Gr Clay A-7-B		2	1.83-2.29	457	1-1	19	15	29
			2.59-3.05	432	1-1	19	19	31
Shells noted at 3.7m			3.35-3.66	457	1/457	10	15	34
	175.92		4.11-4.67	406	1/457	10	15	76
Very Soft Gr Organic Clay A-7-B; Marl seams & Shells noted			4.88-5.33	358	1-1	10	15	229
Peat seam noted at 5.2m			5.64-6.10	457	2	10	15	233
	173.82		6.40-6.86	406	5	230	15	17
Very Stiff Gr Silt A-4; Silt lenses noted			7.16-7.62	457	12-11	259	15	18
		8	7.92-8.38	406	4	328	15	21
	171.35		8.69-9.14	457	4			20
Medium Dense Gr Silt A-4			9.45-9.91	381	8			5
Dense Gr Sand A-1-s; Cobbles noted		10	10.21-10.67	406	12			6
Dense Gr Sand A-1-s; Cobbles noted			10.97-11.43	381	34			6
Very hard drilling below 10.7m			11.73-11.83	76	100/78			9
Extremely Dense Gr Sand A-1-s; Cobbles noted								
Boring terminated at 11.8m								
REMARKS								
* Denotes Calibrated Penetrometer Estimate								
WATER 9.4 m ELEV. 170.62 DURING DRILLING √ CORE SIZE mm DATE: OCT 13 97								
WATER 10.9 m ELEV. 169.16 AT COMPLETION √ CASING LENGTH m DRILLER: Roessel								
WATER 4.4 m ELEV. 175.68 AFTER 24 HRS. √ CASING DIAMETER mm INSPECTOR: Mauser								

MIRZA ENGINEERING, INC. CHICAGO, ILLINOIS		BORING LOG		BORING NO: B-10				
JOB NO: 9737 CLIENT: CHRISTIAN-ROGE & ASSOCIATES, INC.		STATION: 4+680		OFFSET: 11.3m Rt				
PROJECT: FAU 3578 (Southwest Highway) over B & O CT RR and Stony Creek		SURF ELEV: 179.69		BORING RIG & METHOD: Mobile B-57 w/Hollow Stem Augers				
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _s kPa	STRAIN %	WATER CONTENT %
			0.00-0.30	Auger				11
FILL: Dark Br to Br Clay A-B; Organic matter noted			0.30-0.78	406	4-4	88	15	18
	177.83		1.07-1.52	358	2-2	67	15	20
		2	1.83-2.29	406	1-1	19	15	39
Very Soft Gr Organic Clay A-7-B; Shells & Peat seams noted			2.59-3.05	203	1-1	10	15	173
	178.49		3.35-3.81	279	1-1			344
Br Fibrous Peat; Shells noted			4.11-4.67	381	1/457	10	15	248
	175.54		4.88-5.33	406	3	211	15	18
Very Soft Gr Organic Silt A-7-5; Peat & Marl seams noted			5.64-6.10	457	11	354	15	14
Very Stiff Gr Silt A-4(8); Silt lenses noted		8	6.40-6.86	381	67-42			5
Very hard drilling below 6.2m			7.16-7.62		41	42-39		8
Extremely Dense Gr Sand A-1-s; Cobbles noted								
Refusal to drilling equipment at 7.8m								
REMARKS								
* Denotes Calibrated Penetrometer Estimate								
WATER 5.6 m ELEV. 174.11 DURING DRILLING √ CORE SIZE mm DATE: OCT 14 97								
WATER 7.0 m ELEV. 172.68 AT COMPLETION √ CASING LENGTH m DRILLER: Roessel								
WATER 3.7 m ELEV. 175.97 AFTER 24 HRS. √ CASING DIAMETER mm INSPECTOR: Mauser								

MIRZA ENGINEERING, INC. CHICAGO, ILLINOIS		BORING LOG		BORING NO: B-11				
JOB NO: 9737 CLIENT: CHRISTIAN-ROGE & ASSOCIATES, INC.		STATION: 4+695		OFFSET: 9.0m Lt				
PROJECT: FAU 3578 (Southwest Highway) over B & O CT RR and Stony Creek		SURF ELEV: 180.25		BORING RIG & METHOD: Mobile B-57 w/Hollow Stem Augers				
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _s kPa	STRAIN %	WATER CONTENT %
			0.00-0.30	Auger				18
FILL: Br Clay A-B; Organic matter noted			0.30-0.78	406	2-2	48	15	18
	178.37		1.07-1.52	457	1-2	39	15	22
		2	1.83-2.29	358	3	67	15	24
Medium Stiff Br & Gr to Gr Silt A-B; Roots & shells noted			2.59-3.05	330	1-1	48	15	20
	177.02		3.35-3.81	457	1-1	19	15	42
Very Soft Gr Organic Clay A-7-B; Shells, Peat seams & Marl seams noted			4.11-4.67	406	1/457			289
Br Fibrous Peat; Shells & Marl seams noted			4.88-5.33	457	1-1			185
	174.53		5.64-6.10	457	4	230	15	19
Very Stiff to Hard Gr Clayey Silt A-4; Sand & Silt lenses noted			6.40-6.86	406	7	412	12	20
	172.46		7.16-7.62	457	6	440	15	17
Medium Dense Gr Silt A-4		8	7.92-8.38	457	7			19
Hard drilling below 8.6m			8.69-9.14	406	12			7
Dense Gr Sand A-1-s; Cobbles noted			9.45-9.91	457	16			8
	170.17		10.21-10.45	229	55			6
Extremely Dense Gr Sand A-1-s; Cobbles noted		10	10.82-10.85	25	100/25			8
Refusal to drilling equipment at 10.9m								
REMARKS								
* Denotes Calibrated Penetrometer Estimate								
WATER 8.6 m ELEV. 171.70 DURING DRILLING √ CORE SIZE mm DATE: OCT 14 97								
WATER 9.6 m ELEV. 170.60 AT COMPLETION √ CASING LENGTH m DRILLER: Roessel								
WATER 5.2 m ELEV. 174.99 AFTER 24 HRS. √ CASING DIAMETER mm INSPECTOR: Mauser								

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS
 SOUTHWEST HIGHWAY OVER
 B. & O.C.T. RAILROAD AND MELVINA DITCH
 F.A.U. ROUTE 3578 SEC. 15VB-1-R
 COOK COUNTY STATION 4+716.471
 STRUCTURE NO. 016-0463
 SCALE: DATE: 6/17/09 DRAWN BY: F. MUNIR
 CHECKED BY: B. SHAH
 CHRISTIAN - ROGE & ASSOC.
 CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

FOR INFORMATION ONLY