STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 1
Date Started 8/17/04
Date Completed 8/17/04

ROUTE F.A.U. 2509 DESCRIPTION CC & P Railroad over McLean Boulevard
SECT. 98-00214-02-BR STRUCT. NO. 045-3163 DRILLED BY TSC L-60,393
COUNTY Kane LOCATION North End East Abutment S. 3 - NW 1/4 , TWP. 40 N , RNG. 8 E

Boring No. CNMC-4
Station 6+72 CL CC & P RR
Offset 19.00ft LT
Surface Elev. 761.90 ft

Surface Water Elev. ____
Groundwater Elev.:
when drilling 718.9
at Completion 718.9
after ____ Hrs. ____

DEPTH	BLOWS	Qu tsf	W %	DEPTH	BLOWS	Qu tsf	W %
	5 6 6	S 3.0	16.1		3 3 5	B 2.8	21.9
		10%				15%	
FILL - Brown to dark brown CLAY and CLAY LOAM, trace gravel and cinders, moist A-6							
	6 5 10	S 2.7	14.8	Very stiff gray CLAY, trace gravel, moist A-6	3 4 7	B 2.9	22.0
-5		10%		-30		15%	
756.40				728.90			
	5 9 10	B 8.9	14.6				
		15%					
	5 9 15	B 9.3	16.5	Very dense brown and gray GRAVEL, occasional Cobbles, (rock fragments recovered), moist A-1-a	29 28 50/3"		5.6
Hard brown CLAY, trace gravel, moist A-6		15%					
-10				-35			
	4 8 12	B 9.1	17.4				
		15%		724.90			
748.90							
	3 5 9	B 8.7	17.6	Very dense gray GRAVEL, little sand, occasional Cobbles, moist A-1-a	16 28 38		6.2
Hard gray CLAY, trace gravel, moist A-6		15%					
-15				-40			
	3 4 6	B 4.1	17.9				
		15%		719.90			
743.90							
	3 5 7	B 3.5	19.5	Very dense clayey SAND and GRAVEL, occasional Cobbles and Boulders, saturated A-1	50/6"		23.7
-20		15%		716.90			
Very stiff gray CLAY, trace gravel, moist A-6 (Qp = 3.5 tsf)				-45 Auger Refusal at 45.0'			
	3 4 7	B 2.7	18.7	CME 55 on Remote Controlled ATV Carrier (#242) CME Automatic Hammer			
		15%					
	3 5 6	B 3.9	22.0	3.25" (83 mm) ID HSA			
-25		15%		-50			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

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ROUTE F.A.U. 2509 DESCRIPTION CC & P Railroad over McLean Boulevard
SECT. 98-00214-02-BR STRUCT. NO. 045-3163 DRILLED BY TSC L-60,393
COUNTY Kane LOCATION South Wall East Abutment S. 3 - NW 1/4 , TWP. 40 N , RNG. 8 E

Boring No. CNMC-5
Station 6+76 CL CC & P RR
Offset 21.00ft RT
Surface Elev. 758.65 ft

Surface Water Elev. ____
Groundwater Elev.:
when drilling 727.7
at Completion 727.7
after ____ Hrs. ____

DEPTH	BLOWS	Qu tsf	W %	DEPTH	BLOWS	Qu tsf	W %
FILL - Black clayey Topsoil 758.25							
	5 5 4	P 4.5	16.7		3 4 7	B 3.1	21.2
FILL - Brown and gray CLAY and CLAY LOAM, trace gravel, moist A-6				Very stiff gray CLAY, trace gravel, moist A-6		15%	
	5 8 11	S 3.3	13.6		2 4 7	B 3.9	21.9
-5		10%		-30		15%	
753.15				727.65			
	5 8 13	B 8.9	16.1				
		15%					
	6 9 14	B 9.1	14.8	Hard brown CLAY LOAM, trace gravel, moist A-6	3 7 11	P 4.5	10.2
Hard brown CLAY, trace gravel, moist A-6		15%					
-10				-35			
	6 8 11	B 6.7	17.6				
		15%		721.65			
	4 5 8	B 4.5	19.4	Very hard brown CLAY, little gravel, damp A-6	14 26 43	S 14.3	15.0
		15%				10%	
-15				-40			
743.15				717.65			
	3 4 6	B 2.8	20.6	Very dense Cobbles and Boulders, (rock fragments recovered), possible fractured bedrock			
Very stiff gray CLAY, trace gravel, moist A-6		15%					
	3 4 6	B 3.4	20.3	715.15 Auger Refusal at 43.5'	50/3"		
		15%					
-20				-45			
738.15				CME 55 on Remote Controlled ATV Carrier (#242) CME Automatic Hammer			
Stiff gray CLAY, trace gravel, moist A-6	2 3 4	B 1.8	22.4				
		15%					
735.65				3.25" (83 mm) ID HSA			
ery stiff gray CLAY, moist A-6	2 4 5	B 3.3	21.1				
		15%					
-25				-50			
733.65							

SPT. (N) = Sum of last two blow values in sample (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

81

DESIGNED	JCE/KJH
CHECKED	PMH
DRAWN	JCE/PMH
CHECKED	KJH

200

EXAMINED
ENGINEER OF BRIDGE DESIGN

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

CN North America's Railroad
FREEPORT SUBDIVSION
BRIDGE NO. W40.07

SOIL BORING LOGS
STRUCTURE NO. 045-3163

SHEET NO. S21 S21 SHEETS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	361	06-00214-02-BR	KANE	219	148
		SN 045-3263	CONTRACT NO. 63073		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		