

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	38-3,38-51L	IROQUOIS	18	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Existing Structure No. 038-0031 Built as F.A.I. Route 57, Sec. 38-3,38-51L. The Substructure consists of a reinforced concrete deck 22'-0" wide in 24' increments by 21" to 24" in depth supported by 4 feet wide rectangular pile bents. Traffic load is to be applied during rehabilitation of the structure, by stage construction. The Contractor shall remove the Existing Sheet Pile Walling and Piles and deliver them to the closest maintenance yard in season.

PROFILE GRADE F.A.I. RTE. 57 UNDER U.S. 24

PROFILE GRADE U.S. 24 OVER F.A.I. RTE. 57

ELEVATION

PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY	PRICE	TOTAL
Structural Expansion	sq. ft.	100	2.00	200.00
Reinforcing Steel	lb.	1000	0.50	500.00
Concrete	cu. yd.	100	10.00	1000.00
Formwork	sq. ft.	1000	0.20	200.00
Gravel	cu. yd.	100	1.00	100.00
Asphalt	sq. yd.	100	0.50	50.00
Paint	gal.	100	0.10	10.00
Other				

DESIGN SPECIFICATIONS

LOADING HS20-44

DESIGN STRESSES

SEISMIC DATA

GENERAL PLAN AND ELEVATION

SECTION 38-5 HRR-2

IROQUOIS COUNTY

STATION 20+00

STRUCTURE NO. 038-0031

APPROVED

RC ENGINEERS LTD.

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Three Materials
NW1/4 NW1/4 SECTION 7 T26N R12E 3PM

PROJECT: BRIDGE 038-0031 EXISTING Date: 08/25/60

ROUTE FAL 57 US 24 OVER FAL 57 Bored By: ON NEW CADD P.

SEC. 38-SHR-2 STA. 647+34.20 Checked By: T. McCleary

COUNTY IROQUOIS PIER 2

Boring No. 2 Sta 20+58 O/S 21.5' AT CL

Surf Mat. H.L. MONK	at Compl. HRR	HL	N	Qu	W	HL	N	Qu	W
ft	ft	t/ft	%	t/ft	%	t/ft	%	t/ft	%
Stiff Gray CLAY (TILL)	637.04	13	B	21		13	B	21	
Very Stiff Yellowish Brown & Gray CLAY (TILL)	654.54	15	B	22		15	B	22	
Hard Yellowish Brown & Gray CLAY (TILL)	652.04	23	B	19		23	B	19	
Hard Gray CLAY (TILL)	649.54	24	B	20		24	B	20	
Very Stiff Gray CLAY (TILL)	639.54	14	B	22		14	B	22	
Stiff Gray CLAY (TILL)	622.04	13	B	22		13	B	22	
Stiff Gray CLAY (TILL)	639.54	15	B	22		15	B	22	

N-Std Rammer Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, 3-Bulge S-Shear E-Estimated P-Penetrometer)

RC ENGINEERS LTD.

Project: Route FAL 57, Sec. 38-SHR-2, County IROQUOIS

Boring No. 1 Sta 20+58 O/S 21.5' AT CL

Surf Mat. H.L. MONK	at Compl. HRR	HL	N	Qu	W	HL	N	Qu	W
ft	ft	t/ft	%	t/ft	%	t/ft	%	t/ft	%
Stiff Gray CLAY (TILL)	614.54	14	B	23		14	B	23	
Very Stiff Gray CLAY (LACUSTRINE)	609.54	20	B	24		20	B	24	
Very Stiff Gray CLAY (LACUSTRINE)	604.54	24	B	22		24	B	22	
Medium Gray SILT to FINE SAND (WATER BEARING)	602.03	11	B	21		11	B	21	
Very Stiff Gray CLAY (VARVED)	599.54	26	B	25		26	B	25	
Stiff Gray CLAY (VARVED)	592.03	23	B	21		23	B	21	
Stiff Gray CLAY (TILL)	592.03	13	B	23		13	B	23	

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ILLINOIS DEPARTMENT OF TRANSPORTATION
District Three Materials
NW1/4 NW1/4 SECTION 7 T26N R12E 3PM

PROJECT: BRIDGE 038-0031 EXISTING Date: 08/25/60

ROUTE FAL 57 US 24 OVER FAL 57 Bored By: ON NEW CADD P.

SEC. 38-SHR-2 STA. 647+34.20 Checked By: T. McCleary

COUNTY IROQUOIS PIER 3

Boring No. 2 Sta 20+58 O/S 21.5' AT CL

Surf Mat. H.L. MONK	at Compl. HRR	HL	N	Qu	W	HL	N	Qu	W
ft	ft	t/ft	%	t/ft	%	t/ft	%	t/ft	%
Very Stiff Yellowish Brown & Black CLAY	657.04	13	B	25		13	B	25	
Stiff Yellowish Brown & Gray CLAY (TILL)	654.54	10	B	21		10	B	21	
Hard Yellowish Brown & Gray CLAY (TILL)	652.04	27	B	20		27	B	20	
Hard Gray CLAY (TILL)	649.54	27	B	19		27	B	19	
Very Stiff Gray CLAY (TILL)	644.54	17	B	23		17	B	23	
Stiff Gray CLAY (TILL)	642.04	12	B	21		12	B	21	
Very Stiff Gray CLAY (TILL)	600.03	29	B	21		29	B	21	

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ILLINOIS DEPARTMENT OF TRANSPORTATION
District Three Materials
NW1/4 NW1/4 SECTION 7 T26N R12E 3PM

PROJECT: BRIDGE 038-0031 EXISTING Date: 08/25/60

ROUTE FAL 57 US 24 OVER FAL 57 Bored By: ON NEW CADD P.

SEC. 38-SHR-2 STA. 647+34.20 Checked By: T. McCleary

COUNTY IROQUOIS PIER 1

Boring No. 1 Sta 20+58 O/S 21.5' AT CL

Surf Mat. H.L. MONK	at Compl. HRR	HL	N	Qu	W	HL	N	Qu	W
ft	ft	t/ft	%	t/ft	%	t/ft	%	t/ft	%
Very Stiff Yellowish Brown & Gray CLAY (TILL)	655.79	14	B	21		14	B	21	
Hard Yellowish Brown & Gray CLAY (TILL)	650.79	31	B	18		31	B	18	
Hard Gray CLAY (TILL)	648.29	23	B	18		23	B	18	
Very Stiff Gray CLAY (TILL)	644.54	17	B	21		17	B	21	
Stiff Gray CLAY (TILL)	640.79	11	B	23		11	B	23	
Stiff Gray CLAY (TILL)	615.79	12	B	23		12	B	23	

N-Std Rammer Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, 3-Bulge S-Shear E-Estimated P-Penetrometer)

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Project: Route FAL 57, Sec. 38-SHR-2, County IROQUOIS

Boring No. 2 Sta 20+58 O/S 21.5' AT CL

Surf Mat. H.L. MONK	at Compl. HRR	HL	N	Qu	W	HL	N	Qu	W
ft	ft	t/ft	%	t/ft	%	t/ft	%	t/ft	%
Very Stiff Gray CLAY (TILL)	615.79	15	B	19		15	B	19	
Very Stiff Gray CLAY (LACUSTRINE)	600.79	24	B	23		24	B	23	
Hard Gray CLAY (LACUSTRINE)	604.29	25	B	25		25	B	25	
Medium Gray SILT (WATER BEARING)	600.79	34	B	21		34	B	21	
Very Stiff Gray CLAY (VARVED)	598.79	29	B	20		29	B	20	

N-Std Rammer Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, 3-Bulge S-Shear E-Estimated P-Penetrometer)

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△ SHEET ADDED