F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-1(K,BY&AC-B)	COOK	497	319
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
Sheet S-20 of S-21		CONTRACT 80906		

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1238 E. DAVIS STREET, ARLINGTON HTS, IL 60005
(847) 392-1441

Bridge Foundation Boring Log

Sh. 1 of 1 Sh.

Job No. 0-91-425-90
PROJECT I-80 and I-55 BRIDGE SN 099-0042 and 43 Date 2-14-92
Existing & Proposed Bridge
ROUTE FAI-80 Over West Frontage Road Bored By TDB
Township 35 N,
SEC. Range 9 E, 28 & 27 STA. 1932+00 Checked By DMB
COUNTY Will

Boring No. 47
Station 1931+81.25
Offset 141.25' LT

Surface Water El.
Groundwater El. at
Completion 580.0
After 48 Hours 579.8

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 588.0			
	3	B	
	5	20% 2.04	22
Black & brown SILTY CLAY (Topsoil Fill) Very Stiff			
584.5	6	B	
	8	20% 1.79	28
Brown & gray CLAY Stiff			
	6	B	
	6	20%	25
581.0	7	1.98	
Brown & gray SILTY CLAY	7	B	
	9	15%	21
Hard	11	2.67	
-10	7	B	
	9	20%	17
	13	7.03	
	10	S 15%	
▽ Stiff 574.5	11	1.69	22
Brown poorly graded SAND (A-3) -15	11	NP	18
572.5	9	NP	21
Gray poorly graded SAND with gravel Med.	11	NP	18
	13		
569.5	10	NP	15
Gray SILTY CLAY-some Very Stiff	16	4.0+P	18
568.5 sand & gravel Dense -20	21	NP	21
Brown poorly graded sand (possible wash-in) Very	28	NP	10
568.0 Gray fractured limestone Dense	22		
with gravel, sand & cobbles	08		--
567.0 Light to med. gray DOLOMITE (continued)			

Surface Water El.
Groundwater El. at
Completion 580.0
After 48 Hours 579.8

Slightly fossiliferous-dark gray argillaceous banding throughout-slightly vertical fracturing throughout

100% Recovery
48% RQD

End of Boring at -31.0'

Elevation	N	Qu t/s.f.	w (%)
-25			
-30			
-35			
-40			
-45			

N-Standard Penetration Test-
Blows per foot to drive 2"
O.D. Split Spoon Sampler 12" with
140 No. hammer falling 30".

Qu-Unconfined Compressive
Strength - t/sf

w - Water Content - percentage
of oven dry weight-%

Type failure:
B - Bulge Failure
S - Shear Failure
E - Estimated Value
P - Penetrometer
NP-Non Plastic

BD 137 (Rev. 4-78)

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS

Bridge Foundation Boring Log

Sh. 1 of 2 Sh.

Job No. 0-91-425-90
PROJECT I-80 & I-55 BRIDGE SN 099-0042 and 43 Date 2-14-92
Existing & Proposed Bridge
ROUTE FAI-80 Over West Frontage Road Bored By TDB
Township 35 N,
SEC. Range 9 E, 28 & 27 STA. 1932+00 Checked By DMB
COUNTY Will

Boring No. 48
Station 1931+71.92
Offset 141.25' LT

Surface Water El.
Groundwater El. at
Completion
After Hours

Elevation	N	Qu t/s.f.	w (%)
Ground Surface			
Black SILTY CLAY (Topsoil) (F.11) Very Stiff			
587.6			
Dark gray to brown & gray SILTY CLAY (F.11)			
	4	B	
	5	20% 1.04	21
Very Stiff	7	1.34	
	4	B	
	5	20%	16
Med.	5	0.45	
	7		
Stiff	2	2.0	17
▽ -15	3	B	
	4	15%	21
Stiff	6	1.16	
	3	15%	21
Med.	3	0.54	
	4	100	13
5" Brown clayey Med.	3	0.19	30
sand "layer" Stiff	4	0.19	30
Dark gray & brown -20	3	B	
to brown CLAY	5	15%	
Med.	5	0.74	21

Surface Water El.
Groundwater El. at
Completion
After Hours

Trace shale fragments

Elevation	N	Qu t/s.f.	w (%)
-25			
Very Stiff	7	B	
	9	20%	19
Med.	13	2.00	
Brown poorly graded SAND -30	11	NP	19
	16	NP	19
Gray poorly graded SAND Dense	25	NP	17
Gray SANDY CLAY Hard	10	B	
	15	20%	13
	30	2.98	
-35			
	29		
	40	E	
Gray GRAVEL with fractured limestone, clay & sand	19	4.5+	8
	100/	E	
Gray SANDY CLAY "Hardpan" with fractured limestone fragments	1.5"	4.5+	13
	100/	E	
-40	1.5"	4.5+	8
	3.5"	E	
Dark gray DOLOMITE-dark gray, argillaceous banding throughout-slightly fossiliferous			08

(continued)

Elevation	N	Qu t/s.f.	w (%)
-45			

*NOTE: Sample Disturbed P=4.0

N-Standard Penetration Test-
Blows per foot to drive 2"
O.D. Split Spoon Sampler 12" with
140 No. hammer falling 30".

Qu-Unconfined Compressive
Strength - t/sf

w - Water Content - percentage
of oven dry weight-%

Type failure:
B - Bulge Failure
S - Shear Failure
E - Estimated Value
P - Penetrometer
NP-Non Plastic

BD 137 (Rev. 4-78)

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1238 E. DAVIS STREET, ARLINGTON HTS, IL 60005
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Sh. 2 of 2 Sh.

Job No. 0-91-425-90
Project FAI-80
Boring 48
Station 1931+71.92 Centerline

Will County
Dated Bored 2-14-92
Bridge SN 099-0042 and SN 099-0043

Elevation	N	Qu t/s.f.	w (%)
(continued)			
-46			
Dark gray DOLOMITE			
		100% Recovery	
		83.5% RQD	
552.6 -50			
End of Boring at -55.5'			
-55			
-60			
-65			
-70			

Elevation	N	Qu t/s.f.	w (%)
-75			
-80			
-85			
-90			
-95			

BD 137 (Rev. 4-78)

DATE: 1/3/2005
FILENAME: n:\proj\2890\2890-05\design\structural\2890-02-s-20-borings2.dgn

REVISIONS	
NAME	DATE

Ciorba Group, Inc.
CONSULTING ENGINEERS
5807 NORTH CUMBERLAND AVENUE :: CHICAGO, ILLINOIS 60656 :: (773) 775-4900

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS 2
FAI-80 OVER WEST FRONTAGE ROAD
FAI-80 SECTION 99-1 (K,BY & AC-B)
WILL COUNTY
FAI-80 STA. 1931+99.35
STRUCTURE NO. 099-0042, 099-0043, 099-0308
SCALE: NONE DRAWN BY BWS
DATE: OCTOBER 2004 CHECKED BY GDW