

testing engineers, inc. 1417 CHICAGO AVE., P.O. BOX 548 DIXON, ILLINOIS 61021 PHONE 815/228-1489
 FOUNDATION BORINGS AND REPORTS 2447 N. CENTRAL AVENUE ROCKFORD, ILLINOIS 61101 PHONE 815/964-8030
 MATERIAL TESTING AND REPORTS
 SOIL SURVEYS AND ANALYSIS

LOG OF BORING NO. B1

PROJECT: PROPOSED BRIDGE, SEC. 98-20101-00-BR, PRINCETON R.D. JOB NO. 4868.01
 OWNER: BUREAU COUNTY HIGHWAY DEPT. / PRINCETON TOWNSHIP ORDER NO.
 ARCHITECT-ENGINEER: WILLETT, HOFMANN & ASSOCIATES, INC.
 LOCATION: SE 1/4 OF SEC. 7, T16N, R9E OF THE 4TH P.M.; BUREAU COUNTY, ILLINOIS

BORING LOCATED 15' LEFT OF STATION 14+19

DATUM: B.M. = CHISELED SQUARE ON SE WINGWALL OF EXISTING STRUCTURE; ELEVATION = 582.17

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DIST.	REC.	N	Q _u	w%
588.9	Loose to dense brown SAND and GRAVEL, wet at -4.5'	0.0	1	SS			7		
584.4	Hard pinkish gray SILTY CLAY, trace sand, trace gravel	4.5	2	SS			23	4.85	10.7
		5	3	SS			20	7.18	11.1
		10	4	SS			17	5.77	10.4
579.9	Hard pinkish gray CLAYEY SILT, trace sand, trace gravel	11.0	5	SS			18	8.45	9.6
		15	6	SS			28	5.02	8.8
550.4	Hard pinkish gray SILTY CLAY, trace sand, trace gravel	18.5	7	SS			49	5.04	10.1
		20	8	SS			16	5.24	10.1
		25	9	SS			20	4.85	10.7
		30	10	SS			22	5.77	10.0
530.4	Hard gray CLAYEY SILT, some sand, trace gravel	38.5	11	SS			47	4.5+ P	9.2

Drilled By GROFF Checked JAC
 Inspector
 Boring Started 9/22/04
 Boring Completed 9/22/04
 Sheet 1 of 2 Sheets



WATER LEVELS
 While Drilling -43.5' (525.4)
 On Completion
 After Hours BACKFILLED
 After Hours

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LOG OF BORING NO. B2

PROJECT: PROPOSED BRIDGE, SEC. 98-20101-00-BR, PRINCETON R.D. JOB NO. 4868.01
 OWNER: BUREAU COUNTY HIGHWAY DEPT. / PRINCETON TOWNSHIP ORDER NO.
 ARCHITECT-ENGINEER: WILLETT, HOFMANN & ASSOCIATES, INC.
 LOCATION: SE 1/4 OF SEC. 7, T16N, R9E OF THE 4TH P.M.; BUREAU COUNTY, ILLINOIS

BORING LOCATED 25' LEFT OF STATION 13+10

DATUM: B.M. = CHISELED SQUARE ON SE WINGWALL OF EXISTING STRUCTURE; ELEVATION = 582.17

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DIST.	REC.	N	Q _u	w%
584.5	Brown SAND and GRAVEL	0.0	1	SS			12	4.57	12.0
583.5		1.0	2	SS			19	6.17	11.0
		5	3	SS			20	5.24	11.2
		10	4	SS			23	5.36	11.0
		15	5	SS			22	5.04	10.3
		20	6	SS			23	5.02	9.1
	Hard pinkish gray SILTY CLAY, trace sand, trace gravel	20	7	SS			20	5.15	10.0
		25	8	SS			24	5.98	10.7
		30	9	SS			32	6.38	10.7
530.0	Medium dense gray SANDY SILT, trace gravel (moist)	34.5	10	SS			24	5.77	12.0
		35						0.87	16.5
526.0	Medium dense to very dense gray fine SAND (wet)	38.5	11	SS			18		23.2

Drilled By GROFF Checked JAC
 Inspector
 Boring Started 9/23/04
 Boring Completed 9/23/04
 Sheet 1 of 2 Sheets



WATER LEVELS
 While Drilling -38.5' (526.0)
 On Completion
 After Hours BACKFILLED
 After Hours

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LOG OF BORING NO. B3

PROJECT: PROPOSED BRIDGE, SEC. 98-20101-00-BR, PRINCETON R.D. JOB NO. 4868.01
 OWNER: BUREAU COUNTY HIGHWAY DEPT. / PRINCETON TOWNSHIP ORDER NO.
 ARCHITECT-ENGINEER: WILLETT, HOFMANN & ASSOCIATES, INC.
 LOCATION: CITY BRUSH PIT SITE AT NE CORNER OF EPPERSON ROAD AND RAILROAD AVENUE PRINCETON, ILLINOIS; BORING LOCATED 50' N & 120' W OF BRUSH PIT ENTRANCE

DATUM: NONE

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DIST.	REC.	N	Q _u	w%
	Brown CLAYEY SILT	0.0							
	Very stiff brown SILTY CLAY, trace sand, trace gravel	0.5	1	SS			20	3.92	10.8
		3.5	2	SS			17	4.65	10.0
		5	3	SS			17	5.24	10.5
		10	4	SS			16	4.07	11.1
		15	5	SS			14	4.46	10.7
	Hard pinkish gray SILTY CLAY, trace sand, trace gravel	15	6	SS			16	4.85	11.3
		20	7	SS			19	4.07	10.8
		25	8	SS			17	4.07	11.4
		30	9	SS			25	4.85	11.9

Drilled By GROFF Checked JAC
 Inspector
 Boring Started 9/22/04
 Boring Completed 9/22/04
 Sheet 1 of 1 Sheets



WATER LEVELS
 While Drilling NONE
 On Completion NONE
 After Hours BACKFILLED
 After Hours

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LOG OF BORING NO. B1

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 LOCATION: SE 1/4 OF SEC. 7, T16N, R9E OF THE 4TH P.M.; BUREAU COUNTY, ILLINOIS

BORING LOCATED 15' LEFT OF STATION 14+19

DATUM: B.M. = CHISELED SQUARE ON SE WINGWALL OF EXISTING STRUCTURE; ELEVATION = 582.17

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DIST.	REC.	N	Q _u	w%
	Continued from Sheet 1	40							
525.4	Hard gray CLAYEY SILT, some sand, trace gravel	43.5	12	SS			1*		
		45	13	SS			88		
	Very dense to medium dense gray fine SAND (wet)	50	14	SS			50		
		55	15	SS			16		
508.9	END OF BORING	60.0							

Drilled By GROFF Checked JAC
 Inspector
 Boring Started 9/22/04
 Boring Completed 9/22/04
 Sheet 2 of 2 Sheets



WATER LEVELS
 While Drilling -43.5' (525.4)
 On Completion
 After Hours BACKFILLED
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LOG OF BORING NO. B2

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 LOCATION: SE 1/4 OF SEC. 7, T16N, R9E OF THE 4TH P.M.; BUREAU COUNTY, ILLINOIS

BORING LOCATED 25' LEFT OF STATION 13+10

DATUM: B.M. = CHISELED SQUARE ON SE WINGWALL OF EXISTING STRUCTURE; ELEVATION = 582.17

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DIST.	REC.	N	Q _u	w%
	Continued from Sheet 1	40							
	Medium dense to very dense gray fine SAND (wet)	45	12	SS			56		
514.5	END OF BORING	50.0	13	SS			52		

Drilled By GROFF Checked JAC
 Inspector
 Boring Started 9/23/04
 Boring Completed 9/23/04
 Sheet 2 of 2 Sheets



WATER LEVELS
 While Drilling -38.5' (526.0)
 On Completion
 After Hours BACKFILLED
 After Hours

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LOG OF BORING NO. B4

PROJECT: PROPOSED BRIDGE, SEC. 98-20101-00-BR, PRINCETON R.D. JOB NO. 4868.01
 OWNER: BUREAU COUNTY HIGHWAY DEPT. / PRINCETON TOWNSHIP ORDER NO.
 ARCHITECT-ENGINEER: WILLETT, HOFMANN & ASSOCIATES, INC.
 LOCATION: CITY BRUSH PIT SITE AT NE CORNER OF EPPERSON ROAD AND RAILROAD AVENUE PRINCETON, ILLINOIS; BORING LOCATED 60' N & 300' E OF BRUSH PIT ENTRANCE

DATUM: NONE

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DIST.	REC.	N	Q _u	w%
		0.0	1	SS			16	1.75	19.6
	Medium dense to loose brown SILT, trace fine sand, trace clay, seam of saturated fine sand at -9.0' (wet below -4.5')	5	2	SS			8	1.31	23.7
		5	3	SS			6	0.97	23.9
		10	4	SS			11	1.0 P	21.6
	Stiff gray SILTY CLAY, seams of gray saturated silt	11.0	5	SS			5	1.55	23.6
	Medium dense gray SAND and GRAVEL, trace clay	14.5	6	SS			16		
		15							
		18.5	7	SS			17	5.43	11.4
	Hard to very stiff pinkish gray SILTY CLAY, trace sand, trace gravel	20	8	SS			23	4.85	11.7
		25							
		30.0	9	SS			21	2.33	12.3

Drilled By GROFF Checked JAC
 Inspector
 Boring Started 9/22/04
 Boring Completed 9/22/04
 Sheet 1 of 1 Sheets



WATER LEVELS
 While Drilling -4.5'
 On Completion DCI -8.0'
 After Hours BACKFILLED
 After Hours

SECTION	COUNTY	SHEETS	SHEET
98-20101-00-BR	BUREAU	65	58
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-BROS-011(62)	

STRUCTURAL SHEET 25 OF 25

BORING LOGS
 SECTION 98-20101-00-BR
 T.R. 245 OVER BIG BUREAU CREEK
 STA. 13+70 (S.N. 006-4288)
 BUREAU COUNTY
 WHA # 1104004