

**BOTTOM OF ABUTMENT FOOTING
FOOTING EL. 211.30**

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CLOUGH, HARBOUR & ASSOCIATES LLP		Bennington-Hoosick D.P.J. 0146(1)	
PROJECT NUMBER: 566J42 February 1996		SUBSURFACE LOG HOLE NUMBER B-418	
LOCATION: Stations 14165 Offset: 6m Rt		PAGE 01 OF 1	
CLIENT: VAOT		DRILL FLUID: Water	
CONTRACTOR: Northeast Diamond Drilling		DRILLING METHOD: F. J. C.	
DRILLER: T.W.	INSPECTOR: S. Pidgeon	DATE: 2/2/96	TIME: 0930
START DATE: 2/9/96	FINISH DATE: 2/2/96	WATER DEPTH: 1.25m	CASING BOTTOM: 4.50m
SURFACE ELEV: 204.95m		CHECKED BY: W. Harris	
SAMP. NO.	DEPTH (meters)	DESCRIPTION AND CLASSIFICATION	ELEVATION (meters)
1	0.5	Clayey SIL, f.f. f.m.c. sand and organic trace f.c. gravel, brown, medium stiff, moist (U-4)(TLL)	204.5
2	1.0	Clayey SIL and f.m.c. SAND f.f. f.c. gravel, trace f.c. gravel, brown, medium stiff, moist (U-4)(TLL)	204
3	1.5	Becomes very stiff (U-4)(TLL)	203.5
4	2.0	COBBLE	203
5	2.5	Clayey SIL, some f.m.c. sand, f.f. f.c. gravel, olive gray, hard, moist (U-4)(TLL)	202.5
6	3.0	Becomes gray, grades to trace f.c. gravel (U-4)(TLL)	202
7	3.5		201.5
8	4.0	becomes v. hard (U-4)(TLL)	201
9	4.5		200.5
10	5.0		200
11	5.5		199.5
12	6.0	No recovery	199
13	6.5	Two attempts to recover sample, no recovery.	198.5
14	7.0	LIMESTONE, gray, medium hard, slight weathering, very thin bedding, good ROD	198
15	7.5		197.5
16	8.0		197
17	8.5	ROD becomes fair	196.5
18	9.0		196
19	9.5	ROD becomes excellent	195.5
20	10.0		195
21	10.5		194.5
22	11.0		194
23	11.5	ROD becomes good	193.5
24	12.0		193
25	12.5		192.5
26	13.0		192

CLOUGH, HARBOUR & ASSOCIATES LLP		Bennington-Hoosick D.P.J. 0146(1)	
PROJECT NUMBER: 566J42 March 1996		SUBSURFACE LOG HOLE NUMBER B-421	
LOCATION: Station 14170 Offset: 5.0m Lt		PAGE 01 OF 1	
CLIENT: VAOT		DRILL FLUID: Water	
CONTRACTOR: Northeast Diamond Drilling		DRILLING METHOD: F. J. C.	
DRILLER: T.W.	INSPECTOR: S. Pidgeon	DATE: 3/7/96	TIME: 0900
START DATE: 3/7/96	FINISH DATE: 3/13/96	WATER DEPTH: 0m	CASING BOTTOM: 3.05m
SURFACE ELEV: 205.00m		CHECKED BY: W. Harris	
SAMP. NO.	DEPTH (meters)	DESCRIPTION AND CLASSIFICATION	ELEVATION (meters)
1	0.5	Clayey SIL, f.f. f.m.c. sand, trace f.c. gravel, brown, stiff, moist (U-4)(TLL)	204.5
2	1.0	Becomes very stiff (U-4)(TLL)	204
3	1.5		203.5
4	2.0		203
5	2.5	Boulder	202.5
6	3.0		202
7	3.5	Becomes gray, v. hard (U-4)(TLL)	201.5
8	4.0		201
9	4.5	Boulder	200.5
10	5.0	L.S. SAND - Some Limestone fragments, gray, v. dense (U-4)(TLL)	200
11	5.5		199.5
12	6.0	Clayey SIL, f.f. f.m.c. sand and f.c. gravel, gray, very hard, dry (U-4)(TLL)	199
13	6.5		198.5
14	7.0	Boulder	198
15	7.5		197.5
16	8.0	LIMESTONE, gray, medium hard, very slight weathering, very thin bedding, good ROD	197
17	8.5		196.5
18	9.0	ROD becomes fair	196
19	9.5		195.5
20	10.0		195
21	10.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	194.5
22	11.0	LIMESTONE, fair ROD	194
23	11.5		193.5
24	12.0	ROD becomes good	193
25	12.5		192.5
26	13.0		192
27	13.5		191.5
28	14.0	Good ROD	191
29	14.5		190.5
30	15.0	Good ROD	190
31	15.5		189.5
32	16.0		189
33	16.5		188.5
34	17.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	188
35	17.5	LIMESTONE	187.5
36	18.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	187
37	18.5		186.5
38	19.0	LIMESTONE, calcite/quartz veins, good ROD	186
39	19.5		185.5
40	20.0	ROD becomes poor	185
41	20.5		184.5
42	21.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	184
43	21.5	LIMESTONE	183.5
44	22.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	183
45	22.5	LIMESTONE	182.5

CLOUGH, HARBOUR & ASSOCIATES LLP		Bennington-Hoosick D.P.J. 0146(1)	
PROJECT NUMBER: 566J42 March 1996		SUBSURFACE LOG HOLE NUMBER B-423	
LOCATION: Station 14170 Offset: 5.0m Rt		PAGE 02 OF 2	
CLIENT: VAOT		DRILL FLUID: Water	
CONTRACTOR: Northeast Diamond Drilling		DRILLING METHOD: F. J. C.	
DRILLER: T.W.	INSPECTOR: S. Pidgeon	DATE: 3/4/96	TIME: 0700
START DATE: 3/4/96	FINISH DATE: 3/7/96	WATER DEPTH: 0.6m	CASING BOTTOM: 8.23m
SURFACE ELEV: 205.00m		CHECKED BY: W. Harris	
SAMP. NO.	DEPTH (meters)	DESCRIPTION AND CLASSIFICATION	ELEVATION (meters)
1	0.5	SILTY CLAY, f.f. f.m.c. sand and organic, dark brown (U-4)	204.5
2	1.0	Clayey SIL, f.f. f.m.c. sand, trace f.c. gravel, light brown, medium stiff, moist (U-4)(TLL)	204
3	1.5	Clayey SIL, f.f. f.m.c. sand and f.c. gravel, grayish-brown, v. stiff, wet (U-4)(TLL)	203.5
4	2.0		203
5	2.5		202.5
6	3.0		202
7	3.5		201.5
8	4.0	Clayey SIL, f.f. f.m.c. sand, trace f.c. gravel, gray, hard (U-4)(TLL)	201
9	4.5		200.5
10	5.0	similar siltst (U-4)(TLL)	200
11	5.5		199.5
12	6.0	becomes v. hard (U-4)(TLL)	199
13	6.5		198.5
14	7.0		198
15	7.5		197.5
16	8.0	LIMESTONE, gray, medium hard, very slight weathering, very thin bedding, moderate fracture spacing, fair ROD	197
17	8.5		196.5
18	9.0		196
19	9.5		195.5
20	10.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	195
21	10.5	ROD becomes good	194.5
22	11.0		194
23	11.5	ROD becomes excellent	193.5
24	12.0		193
25	12.5		192.5
26	13.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	192
27	13.5		191.5
28	14.0		191
29	14.5		190.5
30	15.0	L.S. SAND, f.f. f.m.c. clayey silt, trace f.c. gravel, greenish gray, moist wet (U-4)	190
31	15.5	ROD becomes very poor, moderately weathered	189.5
32	16.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	189
33	16.5		188.5
34	17.0	LIMESTONE, dark gray, very slightly weathered, excellent ROD	188
35	17.5		187.5
36	18.0	becomes severely weathered, very poor ROD	187
37	18.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	186.5
38	19.0		186
39	19.5	LIMESTONE, v. slightly weathered, fair ROD	185.5
40	20.0		185
41	20.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	184.5
42	21.0	LIMESTONE, ROD becomes excellent	184
43	21.5		183.5
44	22.0	Weathering becomes v. severe, with many fine calcite veins, fair ROD, high angle	183
45	22.5		182.5

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PROJECT NUMBER: 566J42 March 1996		SUBSURFACE LOG HOLE NUMBER B-423	
LOCATION: Station 14170 Offset: 5.0m Rt		PAGE 2 OF 2	
CLIENT: VAOT		DRILL FLUID: Water	
CONTRACTOR: Northeast Diamond Drilling		DRILLING METHOD: F. J. C.	
DRILLER: T.W.	INSPECTOR: S. Pidgeon	DATE: 3/4/96	TIME: 0700
START DATE: 3/4/96	FINISH DATE: 3/7/96	WATER DEPTH: 0.6m	CASING BOTTOM: 8.23m
SURFACE ELEV: 205.00m		CHECKED BY: W. Harris	
SAMP. NO.	DEPTH (meters)	DESCRIPTION AND CLASSIFICATION	ELEVATION (meters)
1	22.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	182.5
2	23.0	LIMESTONE, COMPLETELY WEATHERED, VERY poor ROD	182
3	23.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	181.5
4	24.0		181
5	24.5		180.5
6	25.0		180
7	25.5		179.5
8	26.0	LIMESTONE, very slightly weathered, poor for ROD	179
9	26.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	178.5
10	27.0	LIMESTONE	178
11	27.5		177.5
12	28.0	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	177
13	28.5		176.5
14	29.0	LIMESTONE	176
15	29.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	175.5
16	30.0	LIMESTONE	175
17	30.5	SILTY CLAY, f.f. f.m.c. sand, orange brown, moist (U-4)	174.5

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	BR400
Highway No.	VT. RTE. 9	Log Sta.	
		Surv. Sta.	14+140
VT. RTE. 9 OVER AIRPORT BROOK WEST			
SOIL BORING LOGS			
Designed By	W. HARRIS	Drawn by	M. CUEVAS/B. WEATHERBY
Checked By	M. QUINN	Date	11/01
		Bridge Design Supervisor	M. OLSTAD
		Date	11/01
PROJECT	BENNINGTON-HOOSICK	PROJECT NO.	D.P.J. 0146(1)
I.G.C. info.			
Bridge Sheet No. BR407		Sheet 196 OF 473	

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DATE/TIME = 10/17/2001
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