



**PARTIAL BORING LOG  
BB 438**

**PARTIAL BORING LOG (CONT'D.)  
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GZA GEDENVIRONMENTAL OF NEW YORK 3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK		PROJECT U.S. Route 7 Bennington Bypass Bennington, Vermont FILE NO.: 13417		ROADWAY Rt. 7 Bypass STATION 9+278 OFFSET 14.7 ML		SHEET 1 of 5				
ENGINEERS AND SCIENTISTS		BORING TYPE BB East Rd. (Park St. Ext.) Bridge Center		GROUND SURFACE ELEVATION 241.3 M DATUM WVD Pier		START DATE 2/8/95 END DATE 2/10/95				
CONTRACTOR Capital Environmental Drilling Services		DRILLER Steve Clavelle		GZA REPRESENTATIVE MJS		CHECKED BY VRK				
TYPE OF DRILL RIG Mobile Drill B-53		CASING SIZE AND TYPE 4 inch I.D. Flush Joint Casing		OVERBURDEN SAMPLING METHOD 2 inch O.D. x 24 inch Long Split Spoon		ROCK DRILLING METHOD				
DATE		TIME		WATER LEVEL DATA		REMARKS				
02/09/95		0755		11.2'		40* 15 hrs. stabilized				
02/10/95		1145		9.7'		0' After casing pulled				
D E P T H (M)	D E P T H (FT)	SAMPLE		SAMPLE DESCRIPTION		EQUIPMENT INSTALLATION LOG		STRATUM DESCRIPTION		N O T E S
		BLOWS / 6"	NO.	DEPTH (FT)	N-VALUE / RSD(%)	REC (%)				
0.3	1								Asphalt Concrete	1.
0.6	2								Fine to coarse GRAVEL and fine to coarse Sand. FILL.	GRANULAR FILL
0.9	3									
1.2	4	3	S-1	4-6	8	35			Loose, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt & Clay, moist.	
1.5	5									
1.8	6									WEATHERED GLACIAL TILL
2.1	7									
2.4	8									
2.7	9	35	S-2	9-11	24	0			No recovery.	3.
3.0	10									
3.4	11	31	S-3	11-13	45	30			Dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt & Clay, moist.	
3.7	12									
4.0	13									13.5 ft.
4.3	14	38	S-4	14-16	65	60			Very dense, brown, fine to coarse SAND, some Silt & Clay, trace fine Gravel, moist.	GLACIAL TILL

LEGEND  
S - Split Spoon Soil Sample  
U - Undisturbed Soil Sample  
C - Rock Core Sample

NOTES: 1. Pavement 0 - .6 ft. (measured).  
2. Fill .6 - 2.2 ft. (measured).  
3. Driller believes he drove a cobble with spoon (piece stuck in spoon, S-2).

GENERAL 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.  
NOTES: 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA BORING No. 9+278

BOTTOM OF PIER FOOTING  
EL.233J00 m

GZA GEDENVIRONMENTAL OF NEW YORK 3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK		PROJECT U.S. Route 7 Bennington Bypass Bennington, Vermont FILE NO.: 13417		ROADWAY Rt. 7 Bypass STATION 9+278 OFFSET 14.7 ML		SHEET 2 of 5				
ENGINEERS AND SCIENTISTS		BORING TYPE BB East Rd. (Park St. Ext.) Bridge Center		GROUND SURFACE ELEVATION 241.3 M DATUM WVD Pier		START DATE 2/8/95 END DATE 2/10/95				
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		BLOWS / 6"	NO.	DEPTH (FT)	N-VALUE / RSD(%)	REC (%)				
4.6	15									
4.9	16									
5.2	17									
5.5	18									
5.8	19	27	S-5	19-21	41	40			Hard, yellowish-brown, SILT & CLAY and fine to coarse Sand, trace fine Gravel, moist.	
6.1	20									
6.4	21									
6.7	22									
7.0	23									
7.3	24	27	S-6	24-26	96	65			Hard, yellowish-brown, SILT & CLAY and fine to coarse Sand, trace fine Gravel, moist.	
7.6	25									
7.9	26									
8.2	27									
8.5	28									
8.8	29									
9.1	30									
9.4	31	51	S-7	30.5-32.5	100+	50			Hard, yellowish-brown, SILT & CLAY and fine to coarse Sand, trace fine Gravel, moist.	
9.7	32									
10.0	33									

LEGEND  
S - Split Spoon Soil Sample  
U - Undisturbed Soil Sample  
C - Rock Core Sample

NOTES: 4. Boulder at 29-30.2 ft.

GENERAL 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.  
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		BLOWS / 6"	NO.	DEPTH (FT)	N-VALUE / RSD(%)	REC (%)				
10.3	34									
10.6	35	57	S-8	34.5-35.8	100+	40			Hard, yellow-brown, SILT & CLAY and fine Sand, trace fine Gravel, moist.	
10.9	36									
11.2	37									
11.5	38									
11.8	39	200/4"								
12.1	40									
12.4	41									GLACIAL TILL
12.7	42									
13.0	43									
13.3	44	107	S-10	44-44.8	100+	75			Very dense, yellow-brown, fine to coarse SAND and fine to coarse Gravel, little Silt & Clay, moist.	
13.6	45	100/3"								
13.9	46									
14.2	47									
14.5	48									
14.8	49	108	S-11	49-51	100+	80			Very dense, orange-brown, fine to coarse SAND, some fine to coarse Gravel, some Silt & Clay, moist.	
15.1	50									
15.4	51									
15.7	52									

LEGEND  
S - Split Spoon Soil Sample  
U - Undisturbed Soil Sample  
C - Rock Core Sample

NOTES: 5. Boulder at 33.5 to 34.5 ft.  
6. Telescoped 3-in. casing at 34 ft.  
7. Large stone stuck in end of spoon, S-10.  
8. Driller noted cobbles from 44 to 49 ft.

GENERAL 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.  
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NOTE:  
ENGLISH AND METRIC UNITS THAT WERE USED ON THE ORIGINAL BORING LOGS HAVE BEEN RETAINED.

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	BII
Highway No.	TH 5	Log Sta.	
		Surv. Sta.	
EAST ROAD OVER VT ROUTE 279			
<b>BORING LOGS (5 OF 9)</b>			
Designed By	S. BURBANK	Drawn By	A. THIBAUT
Checked By	Date	Bridge Design Supervisor	Date
M. CHENETTE	11/04	G. BOGUE	03/07
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-1(53)
Dgn.	...Design\VER-Bore5.dgn	Plot Date:	5/25/2011
Bridge Sheet No.	BR609	Sheet	256 of 577



VA1953\active\953\0002\transportation\structure\01\Design\VER-Bore5.dgn