



**BORING LOG  
BB 433**

**BORING LOG (CONT'D.)  
BB 433**

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BB 433**

|   |  |  |      |  |        |  |  |
|---|--|--|------|--|--------|--|--|
| GZA GEOENVIRONMENTAL OF NEW YORK<br>3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK                                    |  | PROJECT<br>U.S. Route 7 Bennington Bypass<br>Bennington, Vermont<br>FILE NO.: 13417  |      | ROADWAY<br>Rt. 7 Bypass<br>STATION 9+281<br>OFFSET 28 MR |        | SHEET 1 of 3   |  |
| CONTRACTOR Capital Environmental Drilling Services<br>DRILLER Mark Voisine<br>GZA REPRESENTATIVE YES CHECKED BY VRK |  | BORING TYPE BB, East Rd. (Park St. Ext.) Bridge, N. Abut<br>GROUND SURFACE ELEVATION 243.0 M DATUM NYCD<br>START DATE 11/14/94 END DATE 11/14/94 |      | ENGINEERS AND SCIENTISTS                                 |        | ROADWAY<br>Rt. 7 Bypass<br>STATION 9+281<br>OFFSET 28 MR |  |
| TYPE OF DRILL RIG Mobile Drill B-53   |  | WATER LEVEL DATA   |      | EQUIPMENT<br>INSTALLATION LOG                            |        | STRATUM<br>DESCRIPTION                                   |  |
| CASING SIZE AND TYPE 4 1/2 inch I.D. Hollow Stem Augers   |  | DATE   | TIME | WATER  | CASING | REMARKS  |  |
| OVERBURDEN SAMPLING METHOD 2 inch O.D. x 24 inch Long<br>SPLIT spoon  |  | 11/14/94   | 1730 | 2'   | 25'    | unstabalized   |  |
| ROCK DRILLING METHOD  |  | 11/14/94   | 1745 | 2'   | 0'     | unstabalized   |  |

| DEPTH (M) | DEPTH (FT) | SAMPLE     |     | SAMPLE DESCRIPTION | EQUIPMENT INSTALLATION LOG | STRATUM DESCRIPTION | NOTES |
|-----------|------------|------------|-----|--------------------|----------------------------|---------------------|-------|
|           |            | BLOWS / 6" | NO. |                    |                            |                     |       |
| 0.3       | 1          |            |     |                    |                            | STONE WALL AND FILL | 1.    |
| 0.6       | 2          |            |     |                    |                            |                     |       |
| 0.9       | 3          |            |     |                    |                            |                     |       |
| 1.2       | 4          |            |     |                    |                            | 4 ft.               |       |
| 1.5       | 5          | 18         | S-1 | 5-7                | 55                         | 50                  |       |
| 1.8       | 6          | 29         |     |                    |                            |                     |       |
| 2.1       | 7          | 26         |     |                    |                            |                     |       |
| 2.4       | 8          | 19         |     |                    |                            |                     |       |
| 2.7       | 9          |            |     |                    |                            |                     |       |
| 3.0       | 10         | 4          | S-2 | 10-12              | 28                         | 50                  |       |
| 3.4       | 11         | 10         |     |                    |                            |                     |       |
| 3.7       | 12         | 18         |     |                    |                            |                     |       |
| 4.0       | 13         | 20         |     |                    |                            |                     |       |
| 4.3       | 14         |            |     |                    |                            |                     |       |

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

**NOTES:** 1. 0-3 ft. hand excavated through stone wall, 3 in. to 16 in. stones and organic type soil.

**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+281

**BOTTOM OF ABUT. 2 FOOTING  
EL. 237.150 m**

|   |  |  |      |  |        |  |  |
|---|--|--|------|--|--------|--|--|
| GZA GEOENVIRONMENTAL OF NEW YORK<br>3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK                                    |  | PROJECT<br>U.S. Route 7 Bennington Bypass<br>Bennington, Vermont<br>FILE NO.: 13417  |      | ROADWAY<br>Rt. 7 Bypass<br>STATION 9+281<br>OFFSET 28 MR |        | SHEET 2 of 3   |  |
| CONTRACTOR Capital Environmental Drilling Services<br>DRILLER Mark Voisine<br>GZA REPRESENTATIVE YES CHECKED BY VRK |  | BORING TYPE BB, East Rd. (Park St. Ext.) Bridge, N. Abut<br>GROUND SURFACE ELEVATION 243.0 M DATUM NYCD<br>START DATE 11/14/94 END DATE 11/14/94 |      | ENGINEERS AND SCIENTISTS                                 |        | ROADWAY<br>Rt. 7 Bypass<br>STATION 9+281<br>OFFSET 28 MR |  |
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| DEPTH (M) | DEPTH (FT) | SAMPLE     |     | SAMPLE DESCRIPTION | EQUIPMENT INSTALLATION LOG | STRATUM DESCRIPTION | NOTES |
|-----------|------------|------------|-----|--------------------|----------------------------|---------------------|-------|
|           |            | BLOWS / 6" | NO. |                    |                            |                     |       |
| 4.6       | 15         | 26         | S-3 | 15-17              | 81                         | 70                  |       |
| 4.9       | 16         | 42         |     |                    |                            |                     |       |
| 5.2       | 17         | 55         |     |                    |                            |                     |       |
| 5.5       | 18         |            |     |                    |                            |                     |       |
| 5.8       | 19         |            |     |                    |                            |                     |       |
| 6.1       | 20         | 27         | S-4 | 20-22              | 98                         | 75                  |       |
| 6.4       | 21         | 43         |     |                    |                            |                     |       |
| 6.7       | 22         | 55         |     |                    |                            |                     |       |
| 7.0       | 23         | 64         |     |                    |                            |                     |       |
| 7.3       | 24         |            |     |                    |                            |                     |       |
| 7.6       | 25         | 52/0"      | S-5 | 25-25              | 100+                       | 0                   |       |
| 7.9       | 26         | 83         | S-6 | 25.5-26.2          | 100+                       | 100                 |       |
| 8.2       | 27         | 100/2"     |     |                    |                            |                     |       |
| 8.5       | 28         |            |     |                    |                            |                     |       |
| 8.8       | 29         |            |     |                    |                            |                     |       |
| 9.1       | 30         | 93         | S-7 | 30-30.7            | 100+                       | 100                 |       |
| 9.4       | 31         | 100/2"     |     |                    |                            |                     |       |
| 9.7       | 32         |            |     |                    |                            |                     |       |
| 10.0      | 33         | 89         | S-8 | 33-34.4            | 100+                       | 100                 |       |

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

**NOTES:** 2. Water used to help augers cut through soil.  
3. Roller bit through boulder, 25.0 ft. to 25.5 ft.  
4. Roller bit to 30.0, hole collapse, spin 5 in. casing to 30 ft.

**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+281

|   |  |  |      |  |        |  |  |
|---|--|--|------|--|--------|--|--|
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|-----------|------------|------------|-----|--------------------|----------------------------|---------------------|-------|
|           |            | BLOWS / 6" | NO. |                    |                            |                     |       |
| 10.3      | 34         | 163        |     |                    |                            |                     |       |
| 10.6      | 35         | 200/5"     |     |                    |                            |                     |       |
| 10.9      | 36         |            |     |                    |                            |                     |       |
| 11.2      | 37         |            |     |                    |                            |                     |       |
| 11.5      | 38         |            |     |                    |                            |                     |       |
| 11.8      | 39         |            |     |                    |                            |                     |       |
| 12.1      | 40         |            |     |                    |                            |                     |       |
| 12.4      | 41         |            |     |                    |                            |                     |       |
| 12.7      | 42         |            |     |                    |                            |                     |       |
| 13.0      | 43         |            |     |                    |                            |                     |       |
| 13.3      | 44         |            |     |                    |                            |                     |       |
| 13.6      | 45         |            |     |                    |                            |                     |       |
| 13.9      | 46         |            |     |                    |                            |                     |       |
| 14.2      | 47         |            |     |                    |                            |                     |       |
| 14.5      | 48         |            |     |                    |                            |                     |       |
| 14.8      | 49         |            |     |                    |                            |                     |       |
| 15.1      | 50         |            |     |                    |                            |                     |       |
| 15.4      | 51         |            |     |                    |                            |                     |       |
| 15.7      | 52         |            |     |                    |                            |                     |       |

**LEGEND**  
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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.               | B11             |
| Highway No.                        | TH 5                      | Log Sta.                 |                 |
|                                    |                           | Surv. Sta.               |                 |
| <b>EAST ROAD OVER VT ROUTE 279</b> |                           |                          |                 |
| <b>BORING LOGS (1 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\ER\ER-Borel.dgn | Plot Date:               | 5/25/2011       |
| Bridge Sheet No.                   | BR605                     | Sheet                    | 252 of 577      |



V:\953\active\953\0002\transportation\structural\Design\ER\ER-Borel.dgn