

**SOIL CLASSIFICATION**

AASHTO

A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

**ROCK QUALITY DESIGNATION**

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

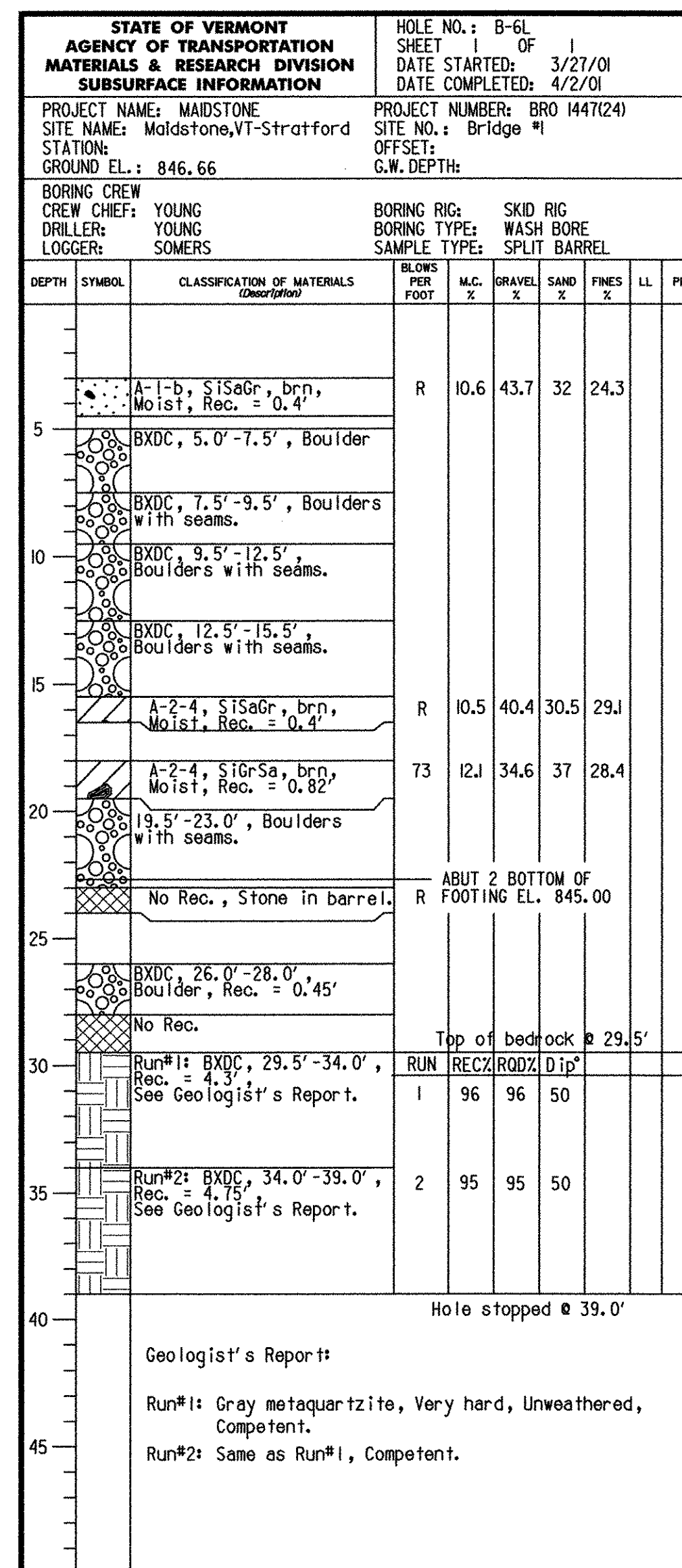
**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

DENSITY (GRANULAR SOILS)	CONSISTENCY (COHESIVE SOILS)
DESCRIPTIVE TERM	DESCRIPTIVE TERM
N <5	Very Loose
N 5-10	Loose
N 11-24	Med. Dense
N 25-50	Dense
N >50	Very Dense
N <2	Very Soft
N 2-4	Soft
N 5-8	Med. Stiff
N 9-15	Stiff
N 16-30	Very Stiff
N 31-60	Hard
N >60	Very Hard

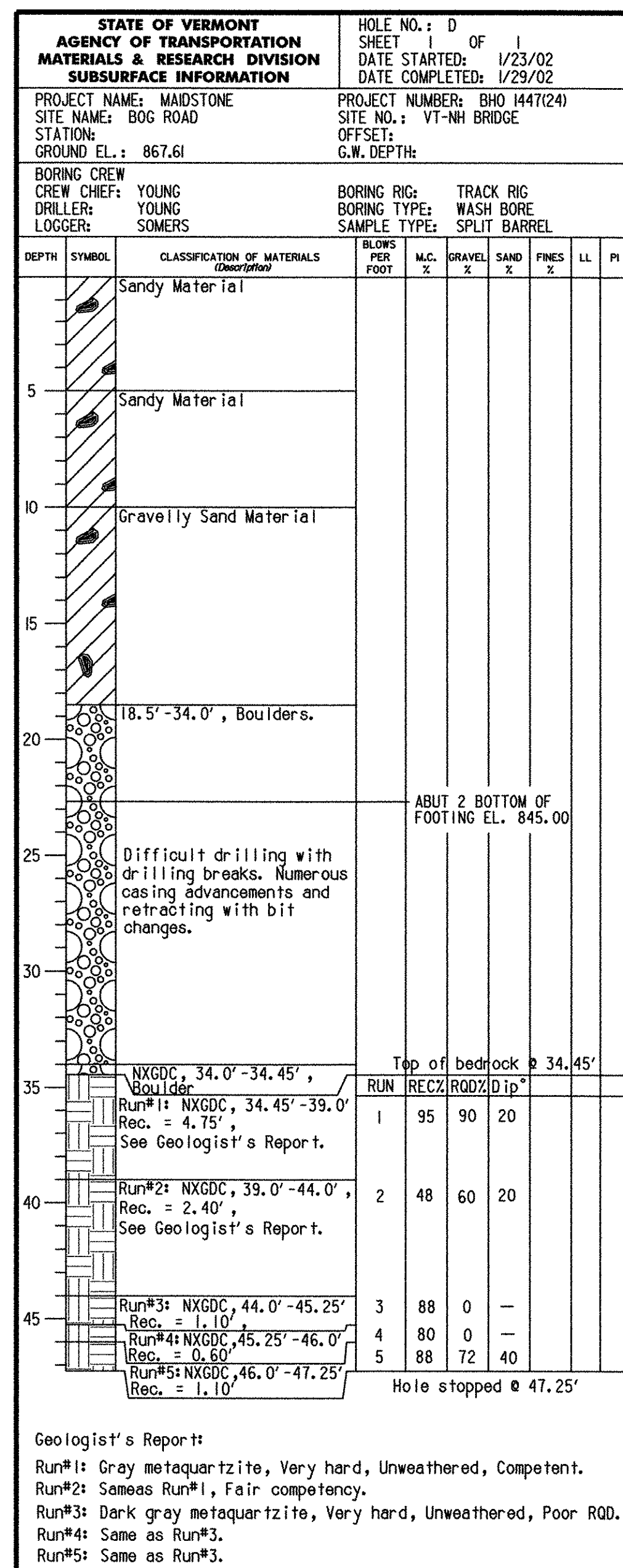
**COMMONLY USED SYMBOLS**

▼	Water Elevation
⊙	Standard Penetration Boring
⊕	Auger Boring
⊖	Rod Sounding
○	Sample
S	Standard Penetration Test
N	Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HTA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 3/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Sl	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	To Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)

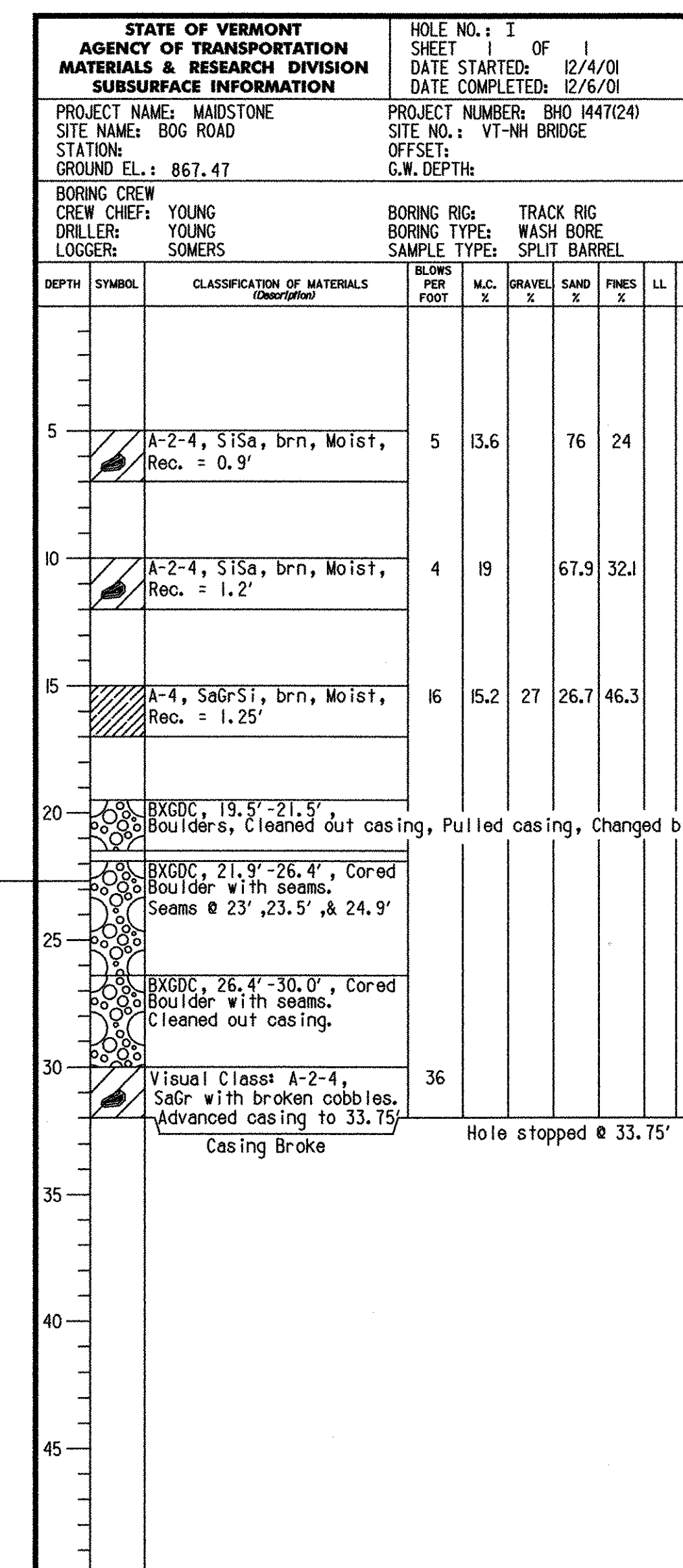
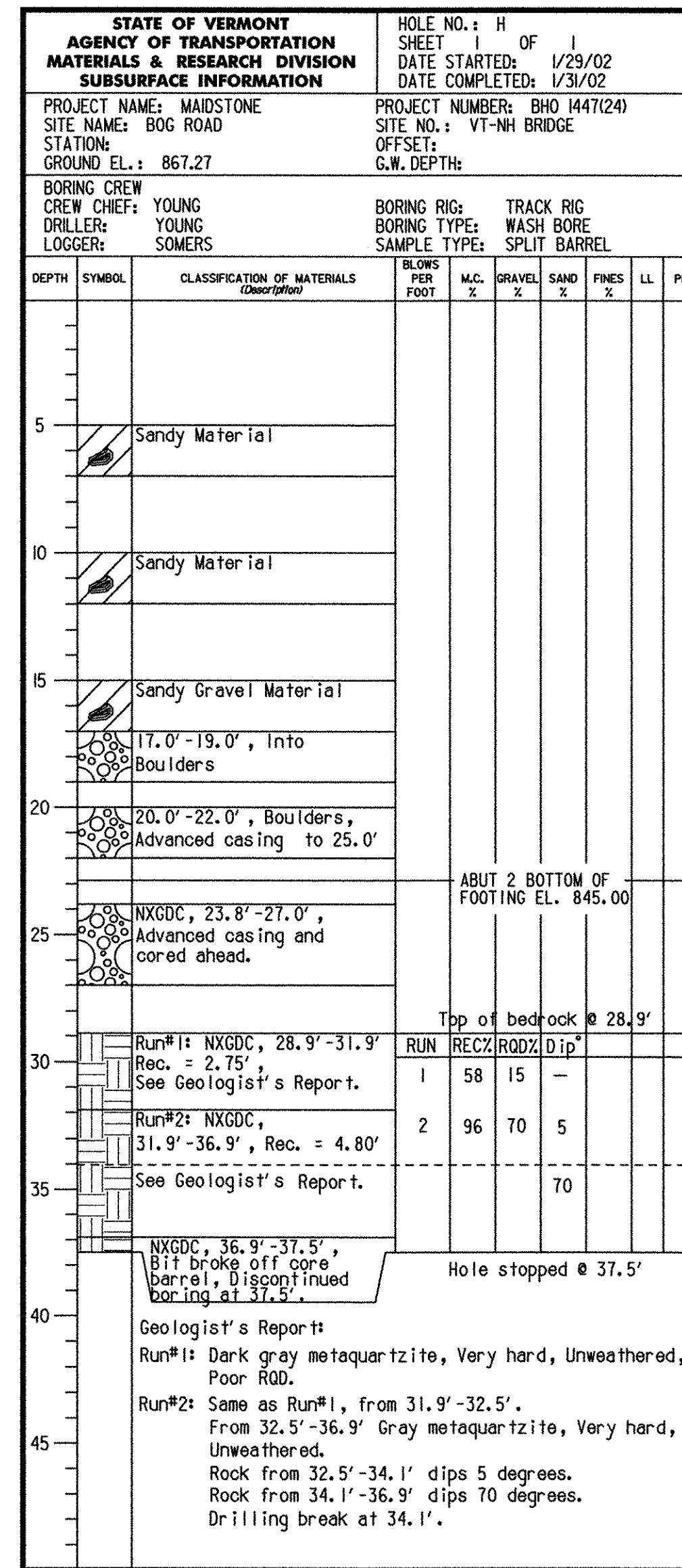
COLOR	
Symbol	Color
bk	Black
bl	Blue
brn	Brown
dk	Dark
gry	Gray
gn	Green
lt	Light
or	Orange
pnk	Pink
pu	Purple
rd	Red
tn	Tan
wh	White
yel	Yellow
mitc	Multicolored



ABUTMENT 2, WW3 & WW4  
BOTTOM OF FOOTING EL. 845.00



Geologist's Report:  
Run#1: Gray metaquartzite, Very hard, Unweathered, Competent.  
Run#2: Same as Run#1, Fair competency.  
Run#3: Dark gray metaquartzite, Very hard, Unweathered, Poor RQD.  
Run#4: Same as Run#3.  
Run#5: Same as Run#3.



BORINGS B-1, B-2, B-3, B-4, B-4A, B-5, B-5A, & B-5B DONE ON 03/27/01 - 04/12/01.  
BORINGS B-1L, B-2L, B-3L, B-4L, & B-6L DONE ON 03/12/01 - 04/05/01.  
BORINGS D, H, I, E, J, L, & A DONE ON 12/4/01 - 02/20/02.

**GENERAL NOTES**

- The subsurface explorations shown herein were made between SEE ABOVE and SEE ABOVE by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.



**STATE OF VERMONT AGENCY OF TRANSPORTATION**

Town Of	MAIDSTONE, VT STRATFORD, NH	Bridge No.	1
Highway No.	MAIDSTONE STATE HWY	Log Sta.	
		Surv. Sta.	

**BORING SHEET 5**

Designed By	J. MESSIER	Drawn By	C. DONOHUE
Checked By	Date	Bridge Design Supervisor	Date
D.B.	SULLIVAN 08/01/03		
PROJECT	MAIDSTONE-STRATFORD	PROJECT NO.	BHO 1447 (24)
I.G.C. Info.			
Bridge Sheet No.		Sheet	32 of 65