

SOIL CLASSIFICATION

COMMONLY USED SYMBOLS

Table with 2 columns: AASHTO (A1-A7) and descriptions (Gravel and Sand, Fine Sand, etc.)

Table with 2 columns: UNIFIED SOIL SYSTEM (GW/GP, GM/GC, etc.) and descriptions (Clean Gravels, Gravels, etc.)

Table with 3 columns: MOISTURE (DESCRIPTIVE TERM, OBSERVED IN FIELD, % ± BY ANALYSIS)

Table with 2 columns: ROCK QUALITY DESIGNATION (R.O.D., ROCK DESCRIPTION)

Table with 2 columns: SHEAR STRENGTH (UNDRAINED SHEAR STRENGTH IN P.S.F., CONSISTENCY)

Table with 2 columns: CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY (DENSITY GRANULAR SOILS, CONSISTENCY COHESIVE SOILS)

Table with 2 columns: COMMONLY USED SYMBOLS (Water Elevation, Standard Penetration Boring, etc.)

Table with 2 columns: COLOR (blk Black, pu Purple, etc.)

DEFINITIONS (AASHTO)

- BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.
BOULDER - A rock fragment with an average dimension > 12 inches.
COBBLE - Rock fragments with an average dimension between 3 and 12 inches.
GRAVEL - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
SAND - Particles of rock < 0.075" (#10 sieve) and > 0.0029" (#200 sieve).
SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
VARVED - Alternate layers of silt and clay.
HARDPAN - Extremely dense soil, cemented layer, not softened when wet.
MUCK - Soft organic soil (containing > 10% organic material).
MOISTURE CONTENT - Weight of water divided by dry weight of soil.
FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.
DIP - Inclination of bed with a horizontal plane.

HOLE NO. B-1 STA. 51+90 OFFSET LT 5'
DRILLER McGLYER
LOG APPROVED BY GREGG BACHELDER-ADAMS
DATE: START 3/12/87 FINISH 3/12/87
SURFACE ELEVATION 1159.0 FT

Soil log table for Hole B-1 with columns: DEPTH, BLOW COUNT, STANDARD PENETRATION, LIQUID PLASTICITY INDEX, MOISTURE, COLOR, CLASSIFICATION AND PROPERTIES OF SOIL AND ROCK

HOLE STOPPED @ 45.0' IN BOULDERS
GROUND WATER ELEV. 1148.5' 3/12/87

HOLE NO. B-2 STA. 51+90 OFFSET RT 11'
DRILLER McGLYER
LOG APPROVED BY GREGG BACHELDER-ADAMS
DATE: START 3/12/87 FINISH 3/12/87
SURFACE ELEVATION 1158.9'

Soil log table for Hole B-2 with columns: DEPTH, BLOW COUNT, STANDARD PENETRATION, LIQUID PLASTICITY INDEX, MOISTURE, COLOR, CLASSIFICATION AND PROPERTIES OF SOIL AND ROCK

HOLE STOPPED @ 67.5' IN BEDROCK
RUN #1 QUARTZ, FELDSPAR, MUSCOVITE, PEGMATITE VERY HARD ROCK BUT BRITTLE.
RUN #2 PEGMATITE CONTACT WITH 2 MICA GRANITE. ROCK IS VERY COMPETENT.

HOLE NO. B-3 STA. 52+65 OFFSET LT 7'
DRILLER McGLYER
LOG APPROVED BY GREGG BACHELDER-ADAMS
DATE: START 3-8-87 FINISH 3-8-87
SURFACE ELEVATION 1157.6'

Soil log table for Hole B-3 with columns: DEPTH, BLOW COUNT, STANDARD PENETRATION, LIQUID PLASTICITY INDEX, MOISTURE, COLOR, CLASSIFICATION AND PROPERTIES OF SOIL AND ROCK

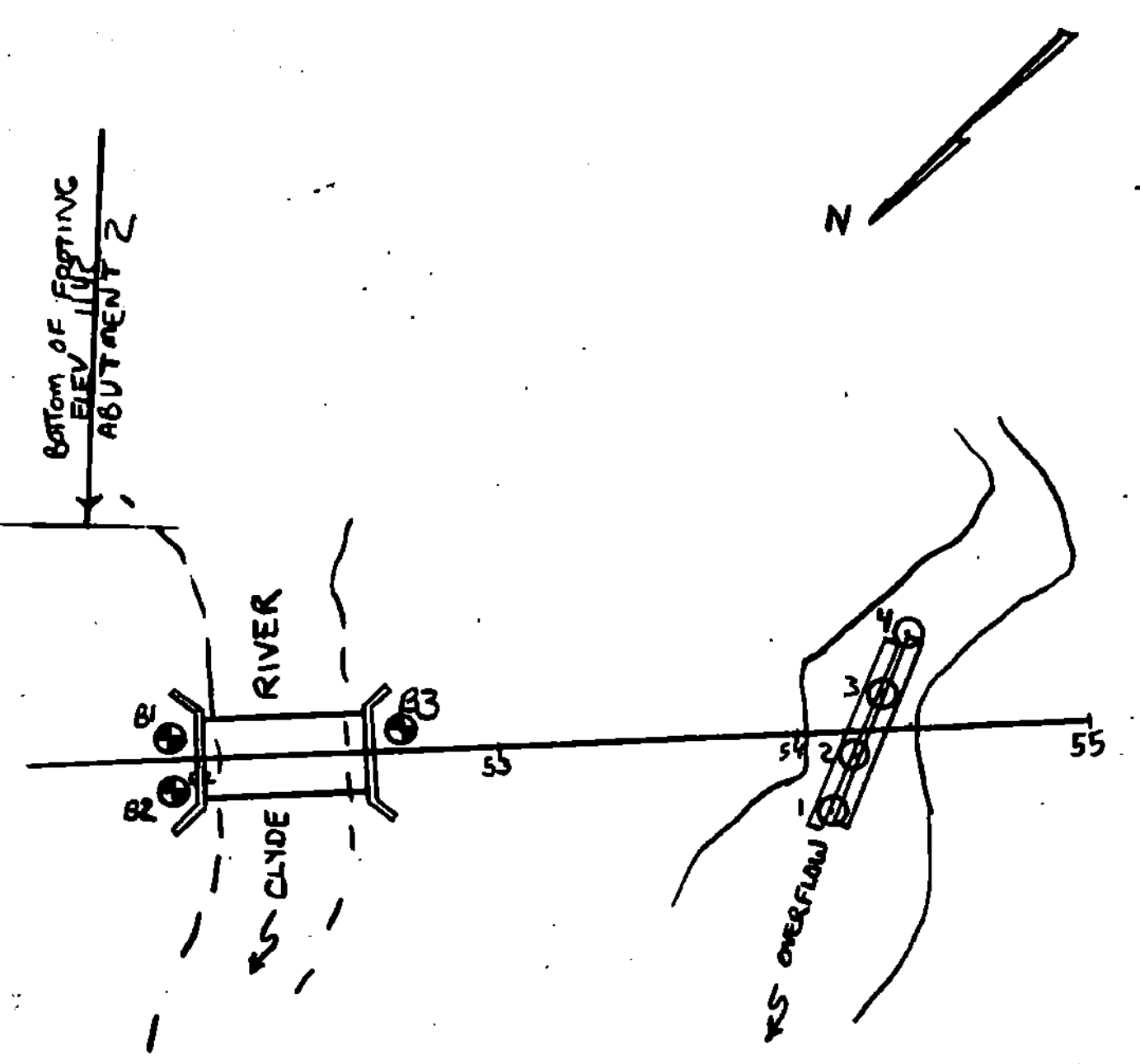


Table with 3 columns: HOLE, STATION, OFFSET (B-1: 51+90, 5' LT; B-2: 51+90, 11' RT; B-3: 52+65, 7' LT)

HAND SOUNDING DATA

Table with 5 columns: BOREHOLE #, STATION, OFFSET, DEPTH, MATERIAL DESCRIPTION

GENERAL NOTES

- 1. The subsurface explorations shown herein were made between 2-88 and 2-88 by the Agency.
2. 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.
3. 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.
4. Engineering judgement 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 judgement by the Contractor.
5. 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.

STATE OF VERMONT AGENCY OF TRANSPORTATION

Form with fields: Town Of CHARLESTON, Bridge No. 24 & 25, Highway No. TH 3, Log Sta. 52+28, BORING INFORMATION SHEET, Designed By A CHURCH, Drawn By A CHURCH, Checked By C. WILLIAMS, Date 12-88, Bridge Design Supervisor R. GENORAN, Date 1-89, PROJECT CHARLESTON, PROJECT NO. BRZ 1449 (14), L.C. Info. 05A130.25BORINGSTD.DGN, R. S. HAUP, 2-85, Bridge Sheet No. 5 of 33