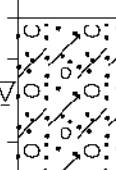
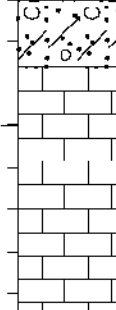


NOTE:
SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-324 SHEET 1 of 1 DATE STARTED: 6/30/09 DATE COMPLETED: 6/30/09			
PROJECT NAME: BARRE CITY SITE NAME: US-302 STATION: 421+97.00 OFFSET: 40.00 VTSPG NAD83			PROJECT NUMBER: FEGC F 026-1(34) SITE NUMBER: GROUND ELEVATION: 607.78 ft GROUNDWATER DEPTH: 4.0 ft 6/30/09 PROJECT PIN NUMBER: 85B010				
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: MAHMUTOVIC			BORING RIG: LARGE SKID RIG w/AUTO HAMMER BORING TYPE: HOLLOW STEM AUGER SAMPLE TYPE: SPLIT BARREL CHECKED BY: CAA				
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
2.5		A-2-4, GrSiSa, brn, Moist, Rec. = 1.4 ft	2	13.6	22.9	45.6	31.5
5.0		A-1-b, SiGrSa, brn, Moist, Rec. = 1.2 ft	9	9.8	37.5	41.2	21.3
7.5		A-1-b, SiGrSa, brn, Moist, Rec. = 1.1 ft	9	11.7	36.1	42.1	21.8
10.0		A-1-b, GrSa, brn, Wet, Rec. = 1.0 ft	13	22.9	39.0	41.9	19.1
12.5		A-2-4, SiSa, brn, Wet, Rec. = 0.4 ft	R	30.5	14.0	82.3	23.7
12.5		Meta-Limestone, (Geologist's determination), BXDC, 11.8 ft - 14.8 ft					10
							10
							10
15.0		Hole stopped @ 14.8 ft					
17.5							

LOG OF BORING: BARRE CITY, FEGC F 026-1(34), GRA, VT AGT 6/30/09

LOG OF BORING BARRE CITY FEGC F 026-1(34) C/2, VT AOT GDT 3/9/11

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

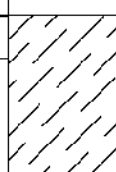
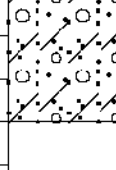
BARRE CITY
FEGC F026-1(34)

Boring No.: **B-401**
Page No.: **1 of 1**
Pin No.: **85B010**
Checked By: **TDE**

Boring Crew: **PORTER, GARROW, HOLT**
Date Started: **3/02/11** Date Finished: **3/03/11**
VTSPG NAD83:
Station: **14+82** Offset: **126.00**
Ground Elevation:

Casing: **H.S.A.** Sampler: **SS**
I.D.: **4.25 in** **1.5 in**
Hammer Wt: **N.A.** **140 lb**
Hammer Fall: **N.A.** **30 in**
Hammer/Rod Type: **Auto/AWJ**
Rig: **CME 45C TRACK** $C_u = 1.34$

Groundwater Observations
Date Depth (ft) Notes
03/03/11 9.32 9:00AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		No sampling performed, 0.0 ft - 5.0 ft					
5.0		A-4, SiSa, brn, Moist. Rec. = 1.5 ft	2-2-3-2 (5)	24.0	1.9	50.8	47.3
7.5		A-2-4, Sa, brn, Moist. Rec. = 1.3 ft	3-3-3-3 (6)	16.1	2.7	84.3	13.0
10.0		A-2-4, Sa, gry-brn, Wei. Rec. = 0.6 ft	2-3-1 (4)	28.4	0.6	83.9	15.5
12.5		Hole stopped @ 10.5 ft					
15.0		Remarks: Water levels were taken through hollow stem auger one day after drilling.					
17.5							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C_u is the hammer energy correction factor.
3. 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.

BORING LOG - BARRE CITY FEGC F026-1(34) GP1 VERMONT AOT GDT 3/09/11

BORING LOG - 2 BARRE CITY FEGC F026-1(34) C/2, VERMONT AOT GDT 3/9/11

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

BARRE CITY
FEGC F026-1(34)

Boring No.: B-402

Page No.: 1 of 1

Pin No.: 85B010

Checked By: TDE

Boring Crew: PORTER, GARROW, HOLT

Date Started: 3/02/11 Date Finished: 3/03/11

VTSPG NAD83:

Station: 15+6.5 Offset: 162.64

Ground Elevation:

Casing Sampler
Type: H.S.A. SS
I.D.: 4.25 in 1.5 in
Hammer Wt: N.A. 140 lb
Hammer Fall: N.A. 30 in
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C TRACK C_g = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
03/02/11	9.38	1:30PM
03/03/11	9.32	9:00AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		No sampling performed, 0.0 ft - 5.0 ft					
5.0		A-4, SiSa, brn, Moist. Rec. = 1.4 ft	3-3-3-3 (6)	22.4		55.2	44.8
7.5		A-4, SiSa, brn, Moist. Rec. = 1.3 ft	1-2-2-2 (4)	28.1	1.5	56.0	42.5
10.0		A-2-4, SiSa, gry-brn, Wet. Rec. = 0.9 ft	1-2-2 (4)	38.9	1.3	70.0	28.7
12.5		Hole stopped @ 10.5 ft					
15.0		Remarks: Water levels were taken through hollow stem auger immediately after drilling and again one day after drilling.					
17.5							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C_g is the hammer energy correction factor.
3. 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.

BORING LOG 2 BARRE CITY FEGC F026-1(34) GP1 VERMONT AOT GDI 38911

BORING LOG - 2 BARRE CITY FEGC F026-1(34) C/2, VERMONT AOT GDT 3/9/11

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 52 OF 339