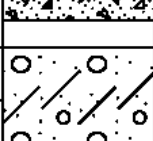
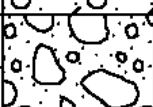
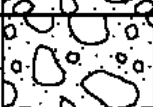
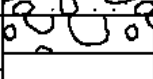
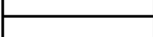
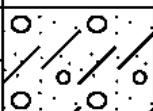
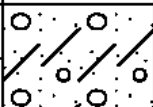
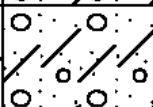
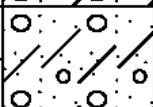
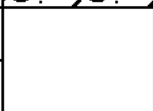
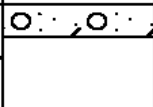


BOTTOM OF PILE CAP = 575.00

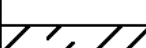
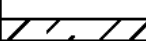
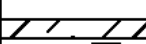
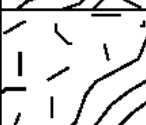
		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-105 SHEET 1 of 1 DATE STARTED: 2/11/09 DATE COMPLETED: 2/13/09			
PROJECT NAME: CHESTER SITE NAME: VT-103 STATION: 13+90 OFFSET: -11.00 VTSPG: N 276233.15 ft E 1617057.43 ft				PROJECT NUMBER: BRF 025-1(37)SC SITE NUMBER: BR-9 GROUND ELEVATION: 584.84 ft GROUNDWATER DEPTH: PROJECT PIN NUMBER: 95B168			
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: MAHMUTOVIC				BORING RIG: LARGE SKID RIG w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: NSM			
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		Asphalt Pavement, 0.0 ft - 0.7 ft					
		Field Note: No Recovery	R				
		BXDC, Concrete, 1.5 ft - 2.5 ft					
5		A-2-4, SiGrSa, gry, MTW, Rec. = 1.2 ft	49	13.3	26.9	46.6	26.5
		A-1-b, SaGr, gry, Wet, Rec. = 0.5 ft	13	10.5	55.5	33.5	11.0
		A-1-b, SaGr, gry, Wet, Rec. = 1.1 ft	22	9.5	47.1	40.7	12.2
10		A-1-a, SaGr, gry, Wet, Rec. = 0.7 ft	R	9.7	63.9	25.9	10.2
		Field Note: BXDC, Cleaned out casing to 10.5 ft.					
		A-2-4, GrSa, gry, Wet, Rec. = 0.4 ft	12	15.1	32.8	49.9	17.3
15		Field Class: BXDC, Cobbles					
		A-2-4, SiGrSa, gry, Wet, Rec. = 1.3 ft	43	12.5	36.6	41.1	22.3
		A-2-4, GrSiSa, gry, Wet, Rec. = 1.4 ft	64	10.8	20.8	47.8	31.4
20		A-2-4, SiSa, gry, Wet, Rec. = 1.2 ft	34	17.3	11.1	68.3	20.6
25		A-2-4, GrSa, gry, Wet, Rec. = 0.6 ft	R	13.2	32.6	54.8	12.6
30		Field Class: BXDC, Cobbles, Cored ahead.					
35		Field Class: BXDC, Cobbles, Changed bit. Very hard drilling.					
		Field Note: Casing broke off. About 5 ft of casing remains in hole. Hole stopped @ 35.0 ft					

LOG OF BORING CHESTER BRF 025-1(37)SC.CP-1 VT AOT.G001 5/13/09

LOG OF BORING CHESTER BRF 025-1(37)SC.GPJ VT AOT.GDT 5/13/09

BOTTOM OF PILE CAP = 575.00

ESTIMATED PILE TIP

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-105A SHEET 1 of 1 DATE STARTED: 2/13/09 DATE COMPLETED: 3/18/09			
PROJECT NAME: CHESTER SITE NAME: VT-103 STATION: 13+86 OFFSET: -10.00 VTSPG: N 276236.57 ft E 1617053.20 ft				PROJECT NUMBER: BRF 025-1(37)SC SITE NUMBER: BR-9 GROUND ELEVATION: 584.9 ft GROUNDWATER DEPTH: 15.5 ft 3/18/09 PROJECT PIN NUMBER: 95B168			
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: MAHMUTOVIC				BORING RIG: LARGE SKID RIG w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: NSM			
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)
10		BXDC, Cobbles, 2.5 ft - 9.5 ft					
		BXDC, Cobbles, 13.0 ft - 14.0 ft					
		BXDC, Cored ahead, 17.2 ft - 19.0 ft					
		BXDC, Cored ahead, 19.1 ft - 21.0 ft					
		BXDC, Cobbles, 22.5 ft - 24.0 ft					
		BXDC, Boulder, 25.0 ft - 27.0 ft					
		BXDC, Cobbles, 27.0 ft - 31.0 ft					
		BXDC, Cored ahead, 33.5 ft - 35.0 ft					
		A-1-b, GrSa, gry, Wet, Rec. = 0.9 ft	R	11.2	42.4	42.9	14.7
		Field Note: Pulled out casing. Changed bit. Changed casing from 4" to 3.5".					
40		No Recovery, 40.0 ft - 41.0 ft	R				
		BXMDC, Cobbles, 41.0 ft - 42.5 ft					
		A-4, SiSa, gry, Wet, Rec. = 0.6 ft	84	21.5	2.8	60.2	37.0
		A-3, Sa, gry, Wet, Rec. = 0.8 ft	R	23.6	0.0	92.4	7.6
60		A-4, SaSi, gry, MTW, Rec. = 0.6 ft	R	27.6	0.0	26.7	73.3
		A-4, SaSi, gry, MTW, Rec. = 0.7 ft	R	22.5	0.0	24.0	76.0
		Gray, Biotite Gneiss, Competent, Very hard, Unweathered, BXMDC, 60.7 ft - 65.7 ft, Rec. = 4.8 ft	1	96	60	35	5 5 10 10 12
		Gray, Biotite Gneiss, Competent, Very hard, Unweathered, BXMDC, 65.7 ft - 70.7 ft, Rec. = 4.85 ft	2	97	70	35	7 11 10 12 18
70		Hole stopped @ 70.7 ft					

LOG OF BORING CHESTER BRF 025-1(37)SC.CPJ VT AOT.GDT 5/13/09

LOG OF BORING CHESTER BRF 025-1(37)SC.GPJ VT AOT.GDT 5/13/09

PROJECT NAME: CHESTER
 PROJECT NUMBER: BRF 025-1(37)

FILE NAME: s95b168bor.dgn
 PROJECT LEADER: C.P.WILLIAMS
 DESIGNED BY: H.J.SALLS
 BRIDGE 9 BORING LOG - SHEET 2

PLOT DATE: 20-SEP-2010
 DRAWN BY: D.D.BEARD
 CHECKED BY: R.S.YOUNG
 SHEET 76 OF 124