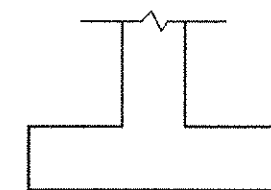


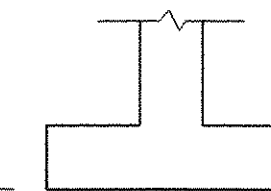
VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-1 SHEET 1 of 1 DATE STARTED: 10/05/05 DATE COMPLETED: 10/06/05			
PROJECT NAME: SPRINGFIELD SITE NAME: VT.11 STATION: 4+79.36 OFFSET: -14.00 VTSPPG:		PROJECT NUMBER: ST CULV(5) SITE NUMBER: MULTI-PLATE GROUND ELEVATION: 749.29 ft GROUNDWATER DEPTH: 15.2 ft 10/06/05					
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: RUSSELL		BORING RIG: LARGE SKID RIG w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: DLG					
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		Asphalt, 0.0 ft - 0.5 ft	22	7.4	34.0	54.3	11.7
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft					
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.5 ft	62	10.1	24.9	47.6	27.5
		Cored ahead, Cobbles, 6.5 ft - 8.5 ft					
10		No Recovery, 10.0 ft - 12.0 ft	13				
		Visual Class: A-2-4, Si Sa Gr, brn-gry, Moist, Rec. = 0.4 ft, 15.0 ft - 17.0 ft, Insufficient sample for testing.	40				
		Boulders, 18.5 ft - 22.0 ft					
		A-4, SiSa HP, gry, Moist, Rec. = 0.9 ft	95/1.0'	9.8	11.2	48.2	40.6
		A-4, SiSa HP, gry, Moist, Rec. = 1.3 ft	103/1.0'	9.7	15.8	46.1	38.1
30		A-2-4, GrSiSa HP, gry, Moist, Rec. = 1.1 ft	R	9.2	24.0	43.7	32.3
		A-4, SiSa HP, gry, Moist, Rec. = 0.5 ft	62/0.5'	9.8	12.0	50.2	37.8
		Boulders & Cobbles, 36.0 ft - 40.0 ft					
40		A-2-4, SiSa, gry, Moist, Rec. = 1.1 ft	98	19.2	7.1	66.4	26.5
		A-4, GrSiSa, gry, Moist, Rec. = 1.8 ft	83	11.8	20.7	40.9	38.4
50		A-4, GrSiSa, gry, Moist, Rec. = 1.9 ft	79	10.7	21.5	40.5	38.0
		Hole stopped @ 52.0 ft					

ABUTMENT NO. 1  
BOT. FTG 732.50



VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B-2 SHEET 1 of 1 DATE STARTED: 10/04/05 DATE COMPLETED: 10/05/05			
PROJECT NAME: SPRINGFIELD SITE NAME: VT.11 STATION: 5+21.13 OFFSET: 14.00 VTSPPG:		PROJECT NUMBER: ST CULV(5) SITE NUMBER: MULTI-PLATE GROUND ELEVATION: 747.56 ft GROUNDWATER DEPTH: Caved in @ 16.3'					
BORING CREW CREW CHIEF: GARROW DRILLER: GARROW LOGGER: RUSSELL		BORING RIG: LARGE SKID RIG w/AUTO HAMMER BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL CHECKED BY: DLG					
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		Asphalt, 0.0 ft - 0.4 ft	18	9.6	38.3	47.6	14.1
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft					
		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft	15	11.5	19.2	66.7	14.1
		A-1-b, SaGr, brn-gry, Moist, Rec. = 1.2 ft	30	9.4	44.8	40.1	15.1
		A-1-b, GrSa, gry, Moist, Rec. = 1.6 ft	47	8.6	39.4	45.0	15.6
		A-2-4, GrSa, gry, Moist, Rec. = 1.6 ft	37	9.9	32.8	48.9	18.3
10		A-1-b, GrSa, gry, Moist, Rec. = 1.3 ft	42	9.1	37.8	45.1	17.1
		A-1-b, SaGr, gry, Moist, Rec. = 1.5 ft	71	8.2	46.3	39.0	14.7
		Cobbles, 14.5 ft - 16.0 ft					
		Lost water, Possible void, No Recovery, 16.0 ft - 18.0 ft	29				
		A-1-b, SaGr, brn-gry, MTW, Rec. = 0.7 ft	7	12.2	47.0	39.9	13.1
20		A-4, GrSaSi, gry, MTW, Rec. = 1.5 ft	42	7.7	20.6	34.2	45.2
		Boulder & Hardpan, 22.0 ft - 22.5 ft	R				
		A-4, SiSa HP, gry, MTW, Rec. = 0.8 ft	59/0.3'	9.5	12.6	47.9	39.5
		A-4, SaSi HP, gry, MTW, Rec. = 1.4 ft	52/0.2'	12.6	11.5	42.6	45.9
		A-4, SiSa HP, gry, MTW, Rec. = 1.6 ft	R	10.5	8.1	47.1	44.8
30		A-2-4, SiSa HP, gry, MTW, Rec. = 1.7 ft	112/1.0'	10.4	18.4	49.3	32.3
		A-4, SiSa HP, gry, MTW, Rec. = 1.5 ft	89	11.0	15.3	43.3	41.4
40		A-2-4, SiSa HP, gry, MTW, Rec. = 0.4 ft	118/1.0'	9.0	14.9	49.8	35.3
		A-4, GrSiSa HP, gry, MTW, Rec. = 1.0 ft	R	9.7	24.6	39.4	36.0
50		A-4, SiSa HP, gry, MTW, Rec. = 2.0 ft	89	9.6	16.9	44.2	38.9
		Hole stopped @ 52.0 ft					

ABUTMENT NO. 2  
BOT. FTG 731.50



### BORING LOGS

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: ST CULV(5)	
FILE NAME: /04ci78/str/s04ci78bor.dgn	PLOT DATE: 21-MAY-2007
PROJECT LEADER: R. WHITCOMB	DRAWN BY: str3
DESIGNED BY: C. CARLSON	CHECKED BY: C. CARLSON
s04ci78bor.2i	SHEET 16 OF 52