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

HOLE NO.: B-5
SHEET 1 OF 1
DATE STARTED: 1/31/96
DATE COMPLETED: 2/2/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+070.70
GROUND EL.: 214.107

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: -3.40
G.W. DEPTH:

BORING CREW
CREW CHIEF: WILLIS
DRILLER: CHABOT E J
LOGGER: KELLY .
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		Pavement	26	17.6	38.1	44.7	17.2		
		A-1-b, GrSa, MTW, brn, Rec. = 0.30 m	R						
		Field classification: GrSa, Rec. = 0.15 m							
		BXDC, boulders or block wall parts.							
		A-1-b, SaGr, moist, brn, Rec. = 0.18 m	R	11.1	50.2	34.7	15.1		
		BXDC, boulders or block wall parts.							
		A-1-a, Gr, moist, gr, Rec. = 0.15 m.	R	2.4	73.9	16.5	9.6		
				Top of bedrock @ 3.70 m					
		Run 1: BXMDC 3.20 m - 3.70 m, Rec. = 0.11 m. Boulders	Rec.%	Dip	Rqd.%				
		Run 2: BXMDC 3.70 m - 4.70 m, Rec. = 0.21 m.	21	50	8				
5		Run 3: BXMDC 4.70 m - 6.20 m, Rec. = 1.06 m	70	50	12				
		Run 4: BXMDC 6.20 m - 7.50 m, Rec. = 1.25 m	82	50	60				
				Hole stopped @ 7.50 m					
10									

ABUTMENT NO. 2
TOP OF FOOTING
ELEVATION 211.000

GEOLOGISTS REPORT:
Run 1: Recovered boulders.

Run 2: Light grey calcareous quartzite with quartz veins. Hard, fresh weathering. Poor recovery.

Run 3: Grey to dark grey interbedded siliceous limestone and phyllite. Moderately hard. Numerous fractures (some weathered) in phyllites. Poor competency.

Run 4: Light grey to grey calcareous quartzite, grey weathered phyllite and siliceous limestone, moderately hard. Weathered fractures. Competent.

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SUBSURFACE INFORMATION

HOLE NO.: B-6
SHEET 1 OF 1
DATE STARTED: 3/15/96
DATE COMPLETED: 3/16/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+070.00
GROUND EL.: 214.067

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: 2.70
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: WARREN
LOGGER: WILLIS
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		BXMDC, pavement							
		Concrete, Rec. = 0.82 m							
		Seam							
		BXMDC, portions of block wall recovered.							
		BXMDC, portions of block wall recovered.							
		BXMDC, portions of block wall recovered.							
5		BXMDC 5.79 m - 6.70 m, Rec. = 0.30 m. Boulders, bottom portion could be possible soft rock.							
				Top of bedrock @ 6.70 m					
		Run 1: BXMDC 6.70 m - 7.62 m, Rec. = 0.34 m	Rec.%	Dip	Rqd.%				
			22	20	0				
		Run 2: BXMDC 7.62 m - 9.14 m, Rec. = 1.43 m	94	20	40				
		Run 3: BXMDC 9.14 m - 10.66 m, Rec. = 0.64 m. Poor recovery due to soft seams in rock which ground up and washed away.	42	30	22				
10				Hole stopped @ 10.66 m					

ABUTMENT NO. 2
TOP OF FOOTING
ELEVATION 207.640

GEOLOGISTS REPORT:
Run 1: Grey to dark grey micaceous quartzite. Hard, fresh. Poor recovery.

Run 2: 7.62 m - 8.22 m: Grey siliceous limestone. Hard, fresh.
8.22 m - 8.94 m: Greyish brown moderately severe weathered, phyllite. Soft.
8.94 m - 9.14 m: Grey siliceous limestone. Fracture near base of core.
Weathered phyllite is not competent.

Run 3: Grey siliceous limestone. Hard, fresh fractures at 9.41 m. Competent.

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HOLE NO.: B-7
SHEET 1 OF 1
DATE STARTED: 2/7/96
DATE COMPLETED: 2/8/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+072.00
GROUND EL.: 213.982

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: 6.00
G.W. DEPTH:

BORING CREW
CREW CHIEF: WILLIS
DRILLER: CHABOT E J
LOGGER: KELLY .
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, GrSa, moist, brn, Rec. = 0.17	34	13.1	36.5	47.5	16.5		
		BX 2.75 m - 3.35 m, concrete							
		BXMDC 3.35 m - 4.87 m, concrete							
5		BXMDC 4.87 m - 6.40 m, concrete							
		BXMDC 6.40 m - 7.25 m, concrete							
				Top of bedrock @ 7.25 m					
		Run 1: BXMDC 7.25 m - 7.92 m, Rec. = 0.62 m	Rec.%	Dip	Rqd.%				
			43		17				
		Run 2: BXMDC 7.92 m - 9.44 m, Rec. = 1.09 m	72		16				
		Run 3: BXMDC 9.44 m - 10.97 m, Rec. = 1.50 m	99	40	37				
10				Hole stopped @ 10.97 m					

ABUTMENT NO. 2
TOP OF FOOTING
ELEVATION 207.640

GEOLOGISTS REPORT:
Run 1: Light grey siliceous limestone. Moderately hard. Fresh weathering. Few weathered fractures. Competent.

Run 2: Light grey to grey siliceous limestone with calcite veins. Moderately hard. Fresh weathering. Fracturing at 0.05 m intervals. Competent.

Run 3: 7.44m - 10.04 m: Grey siliceous limestone. Moderately hard. Fresh weathering.
10.04 m - 10.74 m: Grey phyllite interbedded with siliceous limestone.
10.74 m - 10.97 m: Light grey siliceous limestone.
Competent.

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SUBSURFACE INFORMATION

HOLE NO.: B-8
SHEET 1 OF 1
DATE STARTED: 2/9/96
DATE COMPLETED: 2/15/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+082.10
GROUND EL.: 214.110

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: 6.70
G.W. DEPTH:

BORING CREW
CREW CHIEF: WILLIS
DRILLER: CHABOT E J
LOGGER: KELLY .
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, SiGrSa, moist, brn, Rec. = 0.30 m	R	23.6	35.1	40.6	24.3		
		Boulders or possible broken ledge. No sample.	R						
				Top of bedrock @ 5.02 m					
5		Run 1: BXMDC 5.02 m - 6.51 m, Rec. = 1.39 m	Rec.%	Dip	Rqd.%				
			91	50	85				
		Run 2: BXMDC 6.52 m - 8.02 m, Rec. = 1.35 m	88	30	78				
				Hole stopped @ 8.02 m					
10									

ABUTMENT NO. 2
TOP OF FOOTING
ELEVATION 207.640

GEOLOGISTS REPORT:
Run 1: 5.02 m - 6.47 m: Grey siliceous micaceous limestone. Moderately hard, unweathered. Fractures along bedding planes at 6.12 m and 6.16 m.
6.47 m - 6.52 m: Dark grey phyllite with porphyroblasts of biotite. Moderately hard, unweathered.
Competent.

Run 2: 6.52 m - 7.05 m: Dark grey phyllite with porphyroblasts of biotite.
7.05 m - 8.02 m: grey slightly calcareous quartzite with fine pinstripe mica banding. Hard, unweathered.
Fractures at 6.67 m, 7.12 m and 7.84 m. Competent.

NOTE:
THE STATION AND OFFSETS GIVEN IN THE BORING LOGS ON THIS SHEET ARE NOT RELATIVE TO THE PROPOSED CENTERLINE SHOWN ON THESE PLANS. THE CORRECT STATION AND OFFSET INFORMATION FOR THESE BORINGS IS SHOWN IN THE BORING CHART INCLUDED ON THE BORING LAYOUT SHEET.

VAOT Metric

PROJECT: EAST MONTPELIER	PROJECT NO.: BRF 037-2(8)
DESIGN FILE NAME: 86e054/structures/se054bor.dgn	
IPARM FILE NAME: se054bo3.i	PLOT DATE: 18-AUG-2010
DRAWN BY: S.COENYE	
BORING LOGS (B-5 THROUGH B-8)	SHEET: 19 OF 63