ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	OPTION D IN	OPTION L FT	PCCSP	CAAP	RCP	CSP	OPTION D IN	OPTION L FT	RC P CL	PCC MP	CAA TH	CP TH	NO PIPE ELBOW EA	ELBOWS D IN	ELBOWS TOP DEG	ELBOWS BOT DEG	24" CPL.	FES EA	CB TYPE	DI TYPE	DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM CY	TR EXCAV EARTH CY	TR EXCAV ROCK CY	CH EXCAV UNCL. CY	CH EXCAV ROCK CY	STRUC EXCAV (SAND BORROW) CY	GRUB MAT'L SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	EROSION MATTING SY	REMARKS
Rev. 113+97 114+00	116+67 115+50	RT																																									123.6 67	Erosion Matting
Rev. 115+50	116+73 118+07	RT																																			228	27 76	I			228	Stone Fill, Type I w/Grubbing Material & Double Width Erosion Matting
Rev. 118 115+95	120 121+60	LT																																				154.2 140	I				Stone Fill, Type I
Rev. 118 116+94	119+30 118+02	RT					24	26 46	.064	.060	III																	3.01 0.4	121 50				23.6 95									Cap Existing Drop Inlet / Remove 8' Of Existing RCP And Plug Remaining End With Concrete Class B
Rev. 116+76 118+04	117+37 118+54	RT					24	60 50	.064	.060	III														4'x4'	3.75 4.0'	2.0 21	175 193	B				23.6 12									1	
Rev. 117+37 118+54	121+50	RT																																			263	188 88	I			263	Stone Fill, Type I w/Grubbing Material & Double Width Erosion Matting
Rev. 120+40	121+50	RT																																									Special Ditch (Item 203.15)
Rev. 120 122+40	Surv 123+00	RT	RT																														115.6 36					77	I				Special Ditch w/Stone Fill, Type I (Item 204.20)
124+50.10		℄	85°-00' RT																														19.0 27										18" CMP - Remove
124+68		℄	69°-48' RT 68°-00' RT	ES/			24	124.0 134	.064	.060	III	—												1-24									69.6 51				78.6	7.4 1	I	I	I		
126+00	128+68	LT																																								119	Erosion Matting (NOT USED AT THIS LOCATION)
127+00	128+68	LT																																									Special Ditch (Item 203.15) SEE CROSS SECTIONS
128+35	129+50	RT																																	165 115			77 55	I				Realign Brook Grade to drain @ 2.000% W / Stone Fill, Type I
128+60		℄	84°-48' LT 84°-00' LT	ES/			24	84	.064	.060	III	—												1-24									22.8 23				11.6	5	I	I	I		15" CGMP - Remove, Maintain Existing Flow @ Inlet
129+60	131+26	RT																																				54.4 49	I				Stone Fill, Type I
129+69		℄	69°-00' LT 70°-00' LT				48	100	.109	.105	III	—																			1.7	77.1 75						10	II				36" CMP - REMOVE
131+26	131+66	RT		ES/			18	40	—	—	III	.064												1-18																			Drive Pipe
131+68	132+36	RT																																				20.1	I				Stone Fill Type I
132+36	132+84	RT		ES/			18	48	—	—	III	.064												1-18																			Drive Pipe
132+71		RT																																									12" ACCGMP - Remove
132+86	134+72	RT																																				55.1	I				Stone Fill, Type I
133+25		℄																															92.4			38.0							6"X46' SLEEVE — 3/4" X 240' PVC Waterpipe
134+72	135+20	RT		ES/			18	48	—	—	III	.064												1-18									7.1			7.1							Drive Pipe
135+00		RT																																									12" CMP - Remove
135+22	136+05	RT																																				25	I				Stone Fill, Type I
135+75	136+25	LT																															43.1 20										6"X50' Sleeve — Remove & Reset 50' Existing Waterline (Pold As 3/4" PVC Water Pipe)
136+00	136+50	LT-RT	65°-00 RT				36	114 110	.079(P1)	.075										1-36													383					6.3 46	II				Construct Ditch To Pond @ Outlet w/Stone Fill, Type I
136+05	136+50	RT																																									Construct Earth Berm (Subsidiary To Other Drainage Items)
136+40	139+72	RT																																				98	I				Stone Fill, Type I
137+75	140+50	LT																																				82	I				Stone Fill, Type I
139+50	140+50	LT																																									Special Ditch (Item 203.15)
140+00	140+65	RT					30	40	.079(P1)	.075										1-30																							Drive Pipe
136+09	136+57	LT					15	42				.064																					12.8										ADDED DRIVE PIPE
140+15	145+50	RT																																				111.5 120	I				Stone Fill, Type I
140+64		℄	90°-00' LT																																								18" CGMP - Remove
142+00		℄					24	68	.064	.060	III	—													4'x4'	4.0'	2.1	193	B				36						1	I	I	I		
146+00		RT																															9										15" CMP - Remove
146+08		RT					15	42			III	.064													4'x4'	5.0'	2.6	231	B				13.1										Drive Pipe
146+46		℄	51°-20 LT				18	80	.064																4'x4'	3.25'	1.8	154	B				69.7				2.6				1		
146+22	146+85	RT																																				16	I				Stone Fill, Type I
146+85	148+50	RT																																								73	Erosion Matting
Rev. 150+25	Rev. 150+77	RT		ES/			18	52	—	—	III	.064								1-18																							Drive Culvert ELIMINATED
Rev. 150+50	154+70	LT																																								187	Erosion Matting
Rev. 150+82	153+40	RT																																								115	Erosion Matting
Rev. 156+45		℄					18	82	.064	.060	III														4'x4'	3.5'	1.9	158	B				33.3 30				10.7						
							15	42			III	.064																															
							18	230			III	.064																															
							18	82	.064	.060	III																																
							24	452	.064	.060	III									4-18																	491	1027	I			1052	
SUB-TOTALS							30	40	.079(P1)	.075										2-24								6.5	594	3-B		L7	1126		115			15	II	4	4		
							36	110	.079(P1)	.075	III									1-30																							
							48	100	.109	.105	III									1-36																							

GUARD RAIL

STA.	STA.	LT.	RT.	MEDIAN	ANCHORS
TOTALS					

UNDERDRAIN

STA.	STA.	TYP.	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
Rev. 114+00	120+25	U	RT	6	425	227	155		2	2
Rev. 116+00	120+25	U	LT	6	425	105	155		1	1
Rev. 120+25	120+50	C	RT	6	30	8				1
Rev. 120+25	120+50	C	LT	6	30	8				1
130+00	130+25	C	RT	6	30	8				1
130+25	136+40	U	RT	6	615	376			2	1
136+75	142+00	U	RT	6	525	321			2	2
145+50	Rev. 149+50	U	RT	6	400	195			1	1
Rev. 149+50	154+25	U	LT	6	475	290			1	1
Rev. 154+25	154+50	C	LT	6	30	8				1
Rev. 155+50	165+00	U	RT	6	900	456	110		2	2
Rev. 160+25	164+25	U	LT	6	400	182	62		1	1
Rev. 164+25	164+50	C	LT	6	30	8				1
Rev. 165+00	171+40	U	RT	6	640	325	50		2	1
Rev. 171+40	171+65	C	RT	6	30	8				1
Rev.										
Rev. 176+78 177+65	182+34	U	RT	6	557 740	462 452	5		2	2
182+34	182+53	C	RT	6	15	4				1
136+50	136+75	C	RT	6	30	8				1
Designed Underdrain				6	5745	3004	532		16	19
Designed Carrier Pipe				6	225	60				
TOTALS										

PROJECT NAME EAST MONTPELIER
PROJECT NUMBER RS 0246(1)

D-4 JAN 85

BRUNING 65083