ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	COPPER TUBE LF	COPPER TUBE DIA	UTIL SLVS. LF	2" GATE VALVE EA	PIPE INSUL. FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP	PCCSP PI TH	PIPE ELBOW NO--DIA	ES EA	CB	PROJ	DEPTH DI	CONC CL. B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM	TR EXCAV EARTH CY	TR EXCAV ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUC EXCAV CY	GRAN BKF STRUC CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	GUARDRAIL ITEMS 621.15 PLANK RAIL	621.20 STEEL BEAM GUARDRAIL	621.505 MANUFACTURED TERMINAL SECTION	621.60 ANCHOR FOR STEEL BEAM RAIL	621.74 ALUMINUM APPROACH RAILING (MOD. 1)	621.74 ALUMINUM APPROACH RAILING (MOD. 2)	621.80 REMOVAL AND DISPOSAL OF GUARDRAIL	621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS	REMARKS
125+53	125+56	LT		DI/SF						18	42	0.064	0.060									7.0	3.78	296	D			48	5				5			1	I	1									CONSTRUCT 3' X 6' STONE FILL PAD TYPE I @ OUTLET
127+00		RT		DI/DI						18	14	0.064	0.060	III		SL						5.5	2.80	239	D			17					1		47				1								EROSION MATTING @ INLET -- REV 128+30 TO 127+00
127+00		CL		DI/DI						18	30	0.064	0.060	III		SL						6.0	3.34	265	D			18					3														
127+00		LT		DI/SF						18	26	0.064	0.060									7.0	3.78	296	D			3																			OUTLET ONTO CHANNEL BANK LINED WITH STONE FILL, TYPE IV
128+38	128+88	RT																										58								30	II										CONSTRUCT SPECIAL DITCH
128+95.5		CL		DI/DI						18	40	0.064	0.060	III		SL						6.0	3.34	265	D			19					5														
128+95.5	128+42	RT		DI/SF						18	54	0.064	0.060									7.0	3.78	296	D			38					5														OUTLET ONTO CHANNEL BANK LINED WITH STONE FILL, TYPE IV
129+48	131+60	RT																										65								60	I										CONSTRUCT SPECIAL DITCH
129+56	129+69	RT		ES/ES					18	24	14				0.064				2													2														NEW END SECTIONS @ INLET & OUTLET
131+00		LT		DI/SF						18	52				0.064							3.0	1.70	150	D			32					7			1	I										CONSTRUCT 3' X 7' STONE FILL PAD TYPE I @ OUTLET
131+00	131+70	LT																																	47												CONSTRUCT SPECIAL DITCH
10+55		CL		ES/SF						24	56				0.064				1									34					9					1	1								NEW END SECTION @ INLET
									WATER SYSTEMS																																							
129+13		RT						1																															1								CONNECT TO EXISTING WATER LINE
129+13		RT/LT			130	1"	90																					77																			
129+13		RT							10																																						INSULATE AS NECCESARY IN THE VICINITY OF THE 24" CULVERT @ STA 10+55 RT
129+13		LT						1																															1								CONNECT TO MOBILE HOME
129+13	129+30	LT			38	3/4"																						18																			
129+13		RT/LT																										15																			FOR EXPLORATORY EXCAVATION
									GUARDRAIL ITEMS																																							
125+75	126+87.5	LT																																							112.5		1					TERMINATE W/ 16' RADIUS PER STD G-1D
126+36	127+25	LT/RT																																												89		
126+87.5	127+12.5	LT																																										25				
127+05	127+20	RT																																												15		
127+25	127+29.79	RT																																											21'-9"			
128+53	128+72	RT																																												19		
128+57	129+22	RT/LT																																												64		
128+64	129+05	RT																																											50'-11"			
128+78.5	129+03.5	LT																																									25				
129+03.5	131+70	LT																																							266.5		1					TERMINATE W/ 16' RADIUS PER STD G-1D
TOTALS					130	1"				18	52				0.064																																
										18	84	0.064	0.060	III		SL																																
										18	122	0.064	0.060																							62	I										
					38	3/4"	90	2	10	24	70				0.064				3			22.52	1807	7-D				438	5				37		94	30	II	3	3		379		2	50'	72'-8"	187		

UNDERDRAIN

STA.	STA.	POSITION	TYPE	D	L	TR EXCAV EARTH	TR EXCAV ROCK	GRAN BKF	FB		MKR PST
125+75	127+00	LT	U	6	125	28			1		1
126+50	127+00	RT	U	6	50	11			1		1
128+95.5	129+05	RT	C	6	12	4					
129+05	130+25	RT	U	6	120	26			1		1
ESTIMATED UNDERDRAIN			U	6	100	22			2		2
			C	6	50	11					
TOTALS			U	6	395	102			5		5
			C	6	62						

PROJECT NAME ROYALTON
PROJECT NUMBER BRS 0147(5) S