

ITEM DETAIL AND DRAINAGE SHEET

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

DRAINAGE STRUCTURES

STEEL BEAM GUARD RAIL

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN OUT	PIPE ARCH		PIPE		ALLOWABLE OPTIONS					GATE VALVE EA	PIPE ELBOW NO-DEG	E S CB	P R C O P	DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV CY	TR EXCAV EARTH CY	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	MRKR POSTS LT	RELAY PIPE LF	CONC RMVL CY	EXC RNTL HR	TRK RNTL HR	REMARKS	STA.	STA.	LT.	RT.	END TREATMENT																							
						S IN	R IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH																														PVC CL																						
SHOREHAM																													SHOREHAM																																					
-1+50		CL	76-00 RT	DI/	X			18	84	.064	.060							4-0	2.4	228	1-D																EXIST. DI & STONE BOX ~ REMOVE																													
-0+90		RT		DI/DI																	1															EXIST. DI & 12' CMP ~ CHANGE ELEV. OF DI	99+06	102+43		337																										
2+25		RT																																		EXIST. 15' CGMP ~ REMOVE	100+18	103+56	338																											
6+00		CL		DI/	X			18	8			III																									EXIST. 18" RCP ~ RETAIN, EXTEND W/8" RCP & TYPE I STONE PAD @ OUTLET, LOWER DI WALLS 1' & REPLACE COVER W/ NEW CI GRATE	142+50	146+50	400																										
8+72		CL	85-15 RT	CHW/	X X			24	32			III									1.0	19	3				5										EXIST. 24" RCP ~ RETAIN, RELAY 8' & EXTEND 20' LT, REMOVE HDL & EXTEND 12' RT	281+04	283+29		225																									
10+25	11+75	RT																																			CONSTRUCT SPECIAL DITCH W/ STONE FILL, TYPE I	282+29	283+79	150																										
11+07			66-12 RT	ES/	X X			36	98	.079	.105																										REMOVE EXIST PIPE TYPE II STONE FILL @ INLET AND OUTLET	284+42	285+92		150																									
11+20	11+48		60-30 RT					24	44																											TEMPORARY PIPE FOR DETOUR	284+42	286+92	250																											
14+50								18	4			III																								EXTEND EXIST PIPE 4' LT, W/TYPE I STONE PAD @ OUTLET	284+42	286+92	250																											
14+50	16+65	RT																																		ADDISON																														
18+25		RT		X	X																																EXIST 12' ACCGMP ~ RETAIN	303+50	313+00		950																									
23+45	24+80	LT																																			DITCHING	304+50	309+50	500																										
24+80		LT		X	X			15	6			.064																									REMOVE HEADWALL & EXTEND OUTLET 6'																													
25+03	27+35	LT																																			DITCHING																													
26+50		RT		X	X																																EXISTING 18' ACCGMP ~ RETAIN																													
31+20	31+46	RT		X	X																																EXISTING 18' CMP ~ RETAIN																													
40+00	41+65	RT																																			CONSTRUCT SPECIAL DITCH W/ STONE FILL, TYPE I																													
41+46		CL																																			EXISTING 24' RCP ~ REMOVE																													
41+50		CL		ES/	X X			36	80	.079	.075																											TYPE II STONE FILL @ INLET, 12' X 14'	45+46	46+00	U	RT	6	54	17		1	2																		
41+50		LT																																			TYPE II STONE PAD @ OUTLET	307+50	308+00	C	LT	6	60	18			1	2																		
43+68		RT		X	X																																CONSTRUCT SPECIAL DITCH W/DOUBLE WIDTH EROS. MATT.	308+00	312+50	U	LT	6	460	295			1	1																		
45+46		CL		X	X			18	8			III																									EXISTING 15' CMP ~ RETAIN																													
45+49	45+76	RT																																			EXIST. 18" RCP RETAIN, EXTEND 8' @ OUTLET, REMOVE "L" PORTION OF L HDL @ INLET	496+44	496+44	C	LT	6	98																							
45+78		RT																																				EXISTING 12' CMP ~ REMOVE, EXC. INCL. W/UNDER DRAIN EXC.	TOTAL DESIGNED		C		6	158																						
50+46		CL		X	X																																EXISTING SPRING ~ LOWER WALLS TO ELEV. 496.0 & BKFL W/STONE FILL TYPE I	ESTIMATED		U		6	486	297			1	3																		
52+33		CL		X	X																																EXISTING 18' RCP ~ RETAIN	ESTIMATED		C		6	142	68			1	2																		
53+00		RT		X	X																																EXISTING 15' CMP ~ RETAIN																													
58+61		CL		X	X			42	44			.109																									EXIST 4' X 5' CONC. BOX EXTEND LT.																													
SHEET TOTAL								15	6			.064																									W/20' PIPE, EXTEND RT. W/24' PIPE																													
								18	20			III																																																						
								18	84	.064	.060																																																							
								24	32			III																																																						
								24	44			.064 (MODIFIED)																																																						
								36	80	.079	.075																																																							
								36	98	.079	.105																																																							
								42	44			.109																																																						
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