ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

LABEL	STA.	STA.	POSITION	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S IN	PIPE ARCH R IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CPEP TH	CPEP SL	~~PCCSP PI TH~~	PIPE ELBOW NO-DEG	ES EA	CB	PRCCDI	DEPTH CB/MH	CONC CL B CY	REIN STEEL LBS	CB/DI GRATE TYPE	CHAN ELEV	CRM CY	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	MANHOLE COVER		REMARKS
63	45+~~50~~49.0	45+10.0	LT-RT	CB/CB						18	~~50~~ 52			III		X	RELAY PIPE			1		6.3			D		21.3	~~44.5~~			SOLID ROCK		~~7.1~~	3.8			I				63	4' DIA. PRC CB - 6' DIA. PRC CB (1 GRATE EACH)
64	46+15.0	45+10.0	RT-RT	CB/CB						24	~~102~~ 104			III		X				1		9.5			D		103.3	~~144.0~~					~~17.4~~	10.5							64	~~4'~~ 5' DIA. PRC CB - 6' DIA. PRC CB (1 GRATE EACH)
65	46+65.0	46+15.0	RT-RT	DI/CB						18	52			III		X				~~1~~		-			D		70.8	~~34.6~~	5.19				~~6.8~~	7.7					1		65	~~CONNECT TO EXIST. DI~~ 4' DIA. PRL CB - ~~4'~~ 5' DIA. PRC CB (1 GRATE ~~@46+15.0 RT) ADJUST EXIST. DI@46+65.0 RT~~ EACH)
66	47+10.0	46+15.0	RT-RT	CB/CB						24	~~93~~ 95			III		X				1		9.3			D		92.0	~~127.9~~					~~15.9~~	9.5							66	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
67	47+10.0	47+10.0	LT-RT	CB/CB						18	~~34~~ 35			III		X				1		8.4			D		27.3	~~45.7~~					~~5.1~~	2.3							67	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
68	49+40.0	47+10.0	RT-RT	CB/CB						24	~~228~~ 230			III		X				1		9.4			D		187.2	~~292.2~~					~~38.1~~	23.5						1	68	~~4'~~ 5' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH) WITH 4'DIA. PRC MH @ 48+30 RT
69	30+98.6	30+40.1	LT-RT	MH/CB						18	~~56~~ 58			III		X	6			-		8.3					72.8	~~64.0~~					~~7.9~~	4.5						1	69	4' DIA. PRC MH - 4' DIA. PRC CB (1 COVER & GRATE), PIERCE STREET INSTALL NEW MH ON EXIST. PIPE
70	30+36.2	30+40.1	LT-RT	CB/CB						18	~~18~~ 22			III		X				1		6.4			D		11.5	~~23.0~~					~~3.0~~	1.4							70	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH), PIERCE STREET
71	30+40.1	49+40.0	RT-LT	CB/CB						18	24			III		X				1		8.0			D		19.6	~~34.6~~					~~3.8~~	1.7							71	4' DIA. PRC CB - ~~4'~~ 5' DIA. PRC CB (1 GRATE EACH)
72	49+40.0	49+40.0	LT-RT	CB/CB						18	~~34~~ 36			III		X				1		8.6			D		30.8	~~46.8~~					~~5.1~~	2.6							72	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
73	50+30.0	49+40.0	RT-RT	MH/CB						18	~~86~~ 88			III		X				~~1~~		8.0			D		64.3	~~90.0~~					~~11.8~~	6.5						~~1~~	73	4' DIA. PRC ~~MANHOLE~~ CB - 4' DIA. PRC CB (~~1 COVER &~~ 1 GRATE~~)~~ EACH)
74	50+44.0	50+30.0	RT-RT	CB/MH						18	~~20~~ 23			III		X				1		6.2			D		33.6	~~25.4~~					~~3.3~~	1.6					1		74	4' DIA. PRC CB - MH (1 GRATE & COVER), INSTALL NEW PRC CB ON EXIST. PIPE
75	35+38.8	35+35.2	RT-LT	CB/CB						18	18			III		X				1		6.2			D		10.4	~~22.1~~					~~3.0~~	1.2							75	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH), GOUDREAU STREET
76	35+35.2	52+45.0	LT-RT	CB/MH						18	~~26~~ 27			III		X				1		6.5			D		13.6	~~29.0~~					~~4.0~~	2.0							76	4' DIA. PRC CB - 4' DIA. PRC MH (1 GRATE & COVER), GOUDREAU STREET REM. EXIST. DI'S & PIPE @52+45 RT- LT
77	~~52+11.4~~ 52+21.4	~~52+45.0~~ 54+00	LT-~~RT~~ LT	CB/~~MH~~ CB						18	~~46~~ 179			III		X				1		6.5			D		57.8	~~43.2~~					~~6.6~~	13.6							77	4' DIA. PRC CB - 4' DIA. PRC ~~MH~~ (1 GRATE & ~~1 COVER)~~ EACH)
78	52+45.0	54+00.0	RT-RT	~~MH~~ CB/CB						18	153			III		X				~~1~~		6.9			D		60.2	~~124.3~~					~~20.5~~	11.6						~~1~~	78	4' DIA. PRC ~~MANHOLE~~ CB - 4' DIA. PRC CB (1 COVER & ~~1 GRATE)~~ EACH)
79	54+00.0	54+00.0	LT-RT	CB/CB						18	~~34~~ 38			III		X				1		6.3			D		16.1	~~33.2~~					~~5.1~~	2.6							79	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
80	54+00.0	55+12.0	RT-RT	CB/MH						18	~~108~~ 111			III		X				1		6.8			D		43.0	~~90.1~~					~~14.6~~	8.3							80	4' DIA. PRC CB - 4' DIA. PRC MANHOLE (1 GRATE & 1 COVER)
81	40+36.1	40+36.1	RT-LT	CB/CB						18	~~14~~ 15			III		X				1		6.2			D		9.3	~~19.3~~					~~2.5~~	1.0							81	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH), DEVIN STREET
82	40+36.1	55+12.0	LT-RT	CB/MH						18	20			III		X				1		6.5			D		10.5	~~24.8~~					~~3.3~~	1.1							82	4' DIA. PRC CB - 4' DIA. PRC MANHOLE (1 GRATE & 1 COVER), DEVIN STREET
83	55+12.0	55+12.0	LT-RT	CB/MH						18	~~32~~ 35			III		X				1		6.2			D		15.8	~~32.3~~					~~4.8~~	2.5							83	4' DIA. PRC CB - 4' DIA. PRC MANHOLE (1 GRATE & 1 COVER)
84	55+12.0	56+00.0	RT-RT	MH/CB						18	~~84~~ 87			III		X				-		6.9					45.8	~~76.1~~					~~11.5~~	6.6						1	84	4' DIA. PRC MANHOLE - 4' DIA. PRC CB (1 COVER & 1 GRATE)
85	56+00.0	56+77.7	RT-RT	CB/CB						18	~~74~~ 76			III		X				1		7.3			D		43.5	~~72.1~~					~~10.2~~	5.6							85	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
86	56+00.0	56+77.7	LT-LT	CB/CB						18	~~74~~ 76			III		X				1		5.6			D		23.8	~~57.2~~					~~10.2~~	5.6							86	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
87	56+77.7	56+77.7	LT-RT	CB/CB						18	36			III		X				1		7.3			D		23.4	~~40.9~~					~~5.3~~	2.5							87	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
88	56+77.7	58+40.0	RT-RT	CB/CB						18	~~158~~ 160			III		X				1		7.6			D		89.6	~~158.4~~	2.29		1.56		~~21.1~~	11.6							88	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH)
89	45+35.2	45+37.3	RT-LT	CB/CB						18	~~12~~ 14			III		X				1		6.4			D		9.5	~~18.3~~					~~2.2~~	1.0							89	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH), ADVENT LANE
90	45+37.3	58+40.0	LT-RT	CB/CB						18	~~18~~ 20			III		X				1		6.7			D		11.9	~~23.8~~					~~3.0~~	1.3							90	4' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH), ADVENT LANE
91	58+65.0	58+40.0	LT-RT	CB/CB						18	44			III		X				1		8.2			D		31.9	~~54.0~~					~~6.4~~	3.0							91	4' DIA. PRC CB - ~~4'~~ 5' DIA. PRC CB (1 GRATE EACH)
92	58+40.0	60+91.7	RT-RT	CB/CB						24	~~250~~ 248			III		X				1		9.3			D		337.1	~~361.6~~					~~41.7~~	15.8							92	~~4'~~ 5' DIA. PRC CB - 4' DIA. PRC CB (1 GRATE EACH), REM. EXIST. PIPES
93	60+91.7	60+98.7	RT-LT	CB/MH						24	60		0.075		0.079		0.109			1		11.8			D		117.8	~~119.8~~	6.14		0.96		~~10.5~~	0.6		12.0	I				93	4' DIA. PRC CB - 4' DIA. PRC MANHOLE (1 GRATE & 1 COVER)
94	60+98.7	61+02.0	LT-LT	MH/OL						24	~~30~~ 32.5		0.075		0.079		0.109		1			14.5					136.7	~~51.1~~					~~5.6~~	6.16		126.2	II			1	94	4' DIA. PRC MANHOLE - OUTLET (1 COVER) TYPE II STONE @ OUTLET
																				3 -5'ø 26-4'ø																				4 -4'ø		
										18	1325			III		X																										
TOTALS										24 24	673 90		0.075	III	0.079	X	0.109		1	26			94.72	7106	24-D			2424.3					317.4						2	5		

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT	
TOTALS					

UNDERDRAIN

	STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	12" RISER LEN.	FB	MKR PST
42	42+00	44+54	U	LT	8	252	105.1			6	1	1
43	41+25	44+00	U	RT	8	276	143.6			6	1	1
45	44+00	44+90	U	RT	8	90	47.4			8	1	1
47	45+12	47+12	U	RT	8	202	111.0			8	1	1
49A	47+12	49+46	U	RT	8	235	120.3			8	1	1
49B	49+46	50+30	U	RT	8	83	42.5			8	1	1
50	45+29	47+10	U	LT	8	180	64.1			6	1	1
52	47+10	48+83	U	LT	8	172	75.4			6	1	1
54	49+43	51+50	U	LT	8	206	78.1			6	1	1
55	51+50	54+00	U	LT	8	250	92.7			-		
56	54+00	56+75	U	LT	8	274	105.2			6	1	1
58	50+45	51+85	U	RT	8	138	45.1			6	1	1
59	52+45	54+60	U	RT	8	214	63.0			6	1	1
62	55+12	56+77.7	U	RT	8	166	53.6			6	1	1
64	56+77.7	57+89	U	RT	8	112	36.4			6	1	1
66	58+43	59+50	U	RT	8	106	63.2			6	1	1
	TOTAL 8"	UNDERDRAIN (MOD.)				2956	1246.7			98	15	15
44	44+00	44+00	C	RT	8	4	2.2			8	1	1
46	45+10	45+12	C	RT	8	4	2.2			8	1	1
48	47+10	47+12	C	RT	8	4	2.1			-		
49C	49+40	49+46	C	RT	8	6	2.0			-		
51	47+10	47+10	C	LT	8	4	1.8			8	1	1
53	49+40	49+43	C	LT	8	4	1.9			8	1	1
57	50+30	50+45	C	RT	8	14	6.6			6	1	1
60	54+60	40+36	C	RT	8	22	9.0			6	1	1
61	56+75	56+77.7	C	LT	8	4	1.6			6	1	1
63	56+77.7	56+77.7	C	RT	8	4	1.4			6	1	1
65	58+40	58+43	C	RT	8	4	1.5			6	1	1
	TOTAL 8"	CARRIER PIPE (MOD.)				74	32.3			62	9	9
	TOTAL 12"	CARRIER PIPE (MOD.) FOR RISERS								160		
	TOTALS											

PROJECT NAME: HARTFORD
PROJECT NUMBER: RS 0113(40)

FILE NAME: z86c027qty.DGN
PROJECT LEADER: KEN UPMAL
DESIGNED BY: E. ATKINS
PLOT DATE: 1/31/2007
DRAWN BY: A. DUMITRU
CHECKED BY: E. ATKINS
SHEET 14 OF 239