STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET #1

LAYOUT CODE (#)	STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS				PIPE ELBOW	ES	DMH	CB	DI	PRCDT	DEPTH DI / DMH	SPECIAL PROVISION (FLOWABLE FILL)	REINF STEEL	GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
				NO. DEG.	INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	SPECIAL PROVISION (TRENCHLESSS PIPE)	CPEP SL	PVC	NO. DEG.	EA	EA	EA	EA		FT		LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	
1	111+31		LT		DI							18	8									X		5			D		5.73 ~~10~~	~~3.2~~ 2.67				~~5~~ 1.79							REMOVE EXIST DI. NEW RCDI. CONNECT TO EXISTING 15" RCP.
												24	6																											
2	111+64		RT		DI																	X		6			D		~~8.1 11~~	~~3.5~~ 2.96				~~5~~ 1.79							REMOVE EXIST DI. NEW RCDI. CONNECT EXISTING 24" & 6" PIPES.
3	111+66	111+31	LT		DI	DI						18	32			X						X		5			D		14.53 ~~20~~					~~13~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
4	113+37	113+64	RT		DI	MH						18	~~23~~	24		X						X		7			D		13.53 ~~4~~					~~2~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
5	113+38	113+67	LT		DI	MH						18	~~25~~	26		X						X		7			D		18.1 ~~7~~					~~3~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
6	113+64	111+64	RT		MH	DI						24	~~105~~	196		X								7					12.56 ~~102~~	12.56				~~80~~ 0							NEW 24" CPEP(SL) (OVERFLOW FOR DMH #7).
7	113+64	SL 11+02	RT		MH	CB						36	~~61~~	62		X					X			7			MH COVER		68.46 ~~35~~	5.33				~~15~~ 3.01							REMOVE EXIST JCT BOX & 24" RCP. NEW 36" CPEP(SL) WITH CONCRETE DMH (6').
8	113+67	113+64	LT-RT		MH	MH						30	~~52~~	56		X					X			7			MH COVER		39.8 ~~20~~	8.0				~~16~~ 3.0							REMOVE EXIST JCT BOX & 2-18" RCP'S. NEW 30" CPEP(SL) WITH CONC. DMH (6'). CONNECT EXIST 18" RCP.
9	114+78	113+64	RT		CB	MH						30	~~110~~	112		X							X	8			2-D		70.8 ~~52~~	~~4.5~~ 3.6				~~20~~ 3.0							REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST 6" VCT.
10	114+80	113+67	LT		CB	MH						30	~~100~~	108		X							X	8			2-D		69.5 ~~62~~	~~4.1~~ 3.9				~~20~~ 3.0							REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST 4" & 6" PIPES.
11	115+69	114+78	RT		CB	CB						30	88			X							X	8			2-D		54 ~~43~~	~~4.2~~ 3.6				~~23~~ 3.0							REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST DRAIN PIPE.
												18	20	CONNECTED DI@ BURGER KING TO CB#11																										
12	115+84	114+80	LT		CB	CB						30	~~101~~	102		X							X	7			2-D		26.7 ~~44~~	~~4.2~~ 3.9				~~22~~ 3.0							REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB.
13	116+42	115+84	LT		MH	CB						30	~~53~~	52		X					X			6			MH COVER		3.8 ~~27~~					~~12~~ 0							NEW 30" CPEP(SL) WITH CONCRETE DMH (6').
14	116+80	115+69	RT		CB	CB						30	~~107~~	108		X							X	8			2-D		68.2 ~~49~~	3.6				~~25~~ 3.0							REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST DRAIN PIPES.
15	117+01	116+42	LT		CB	MH						30	54			X							X	7			2-D		36.7 ~~27~~	2.37				~~12~~ 3.0							NEW 30" CPEP(SL) WITH CONCRETE CB.
16	117+23	116+80	RT		CB	CB						30	40			X							X	7			2-D		37.24 ~~23~~	~~2.3~~ 2.37				~~12~~ 3.0							REMOVE EXIST DI. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST DRAIN PIPE.
17	117+17	117+01	LT		DI	CB						18	~~18~~	12		X						X		6.0			D		0 ~~21~~	10.0				~~15~~ 0							NEW 18" CPEP(SL) WITH RCDI.
18	117+70	117+23	RT		CB	CB						30	~~44~~	46		X							X	7			2-D		37.25 ~~24~~					~~12~~ 3.0							NEW 30" CPEP(SL) WITH CONCRETE CB.
19	117+86	117+01	LT		CB	CB						30	~~81~~	80		X							X	7			2-D		69.22 ~~33~~	0				~~15~~ 3.0							NEW 30" CPEP(SL) WITH CONCRETE CB. • REMOVED EXISTING 4'X4'X4' CB
20	117+63	117+70	RT		DI	DI						18	~~13~~	16		X								7					10.1 ~~0~~					~~7~~ 0							NEW 18" CPEP(SL). CONNECT TO EXIST DI.
21	117+86	117+86	LT		DI	CB						18	~~10~~	20		X						X		7.0			D		0 ~~16~~	13.5				~~9~~ 0							NEW 18" CPEP(SL) WITH RCDI. REMOVED EXISTING TELEPHONE MH
22	119+25	117+70	RT		DI	CB						24	~~151~~	152		X						X		7			D		71.04 ~~53~~	4.74				~~34~~ 1.79							REMOVE 2-EXIST DI'S. NEW 24" CPEP(SL) WITH RCDI.
23	119+25	117+86	LT		CB	CB						30	~~135~~	136		X							X	7			2-D		64.78 ~~48~~	2.4				~~20~~ 3.0							NEW 30" CPEP(SL) WITH CONCRETE CB.
24	119+25	119+25	LT		DI	CB						18	10			X						X		7.0			D		16.43 ~~13~~					~~8~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
25	120+73	119+25	RT		DI	DI						24	~~145~~	144		X						X		7			D		68.76 ~~50~~	~~5.0~~ 4.7				~~20~~ 1.79							REMOVE 2-EXIST DI'S. NEW 24" CPEP(SL) WITH RCDI.
26	120+74	119+25	LT		CB	CB						30	~~146~~	146		X							X	7			2-D		58.79 ~~40~~					~~10~~ 3.0							NEW 30" CPEP(SL) WITH CONCRETE CB.
27	121+70	120+74	LT		DI	CB						24	~~83~~	94		X						X		7			D		37.38 ~~32~~					~~17~~ 1.78							NEW 24 CPEP(SL) WITH RCDI.
28	121+75	120+73	RT		DI	DI						24	~~96~~	102		X						X		7			D		49.83 ~~37~~	~~2.5~~ 2.4				~~21~~ 1.79							REMOVE EXIST DI. NEW 24" CPEP(SL) WITH RCDI.
29	120+75	120+74	LT		DI	CB						18	12			X						X		7.0			D		25.27 ~~15~~					9							NEW 18" CPEP(SL) WITH RCDI / REMOVE EXIST 8" VCT, CONNECTED EXISTING STRUCTURE TO DS#29 USING 5 LF OF 8" SDR 35
30	120+75		LT		MH																						~~MH COVER~~	ELIMINATED												~~REMOVE DI GRATE AND FRAME. NEW DMH COVER AND FRAME.~~ ELIMINATED
31	121+70	121+70	LT		DI	CB						18	~~13~~	14		X						X		7.0			D		41.00 ~~18~~	3.89				~~11~~ 1.79							NEW 18" CPEP(SL) WITH RCDI, TRENCH ROCK - REMOVED BURIED CONCRETE WALL
32	122+30	122+45	LT		DI	CB						18	~~18~~	20		X						X		7.0			D		33.84 ~~21~~	7.56				~~16~~ 1.79							NEW 18" CPEP(SL) WITH RCDI, TRENCH ROCK - REMOVED BURIED STONE FOUNDATION
33	122+45	121+70	LT		DI	DI						24	~~71~~	72		X						X		7			D		33.32 ~~28~~					~~16~~ 1.78							REMOVE EXIST 12" RCP. NEW 24" CPEP(SL) WITH RCDI.
34	122+71	121+75	RT		DI	DI						24	~~95~~	94		X						X		7			D		41.59 ~~36~~					~~20~~ 1.79							NEW 24" CPEP(SL) WITH RCDI.
35	122+95	122+45	LT		MH	DI						24	~~46~~	48		X					X			8			MH COVER		25.74 ~~19~~	4.5				~~10~~ 3.0							REMOVE EXIST DMH & 12" RCP. NEW 24" CPEP(SL) WITH CONCRETE DMH (8'). CONNECT EXIST 10" VCT.
36	123+28	122+95	LT		DI	MH						18	30			X							X	7			D		19.07 ~~12~~	~~5.4~~ 0				~~7~~ 1.79							REMOVAL OF EXISTING DMH WAS DOCUMENTED BY DUFRESNS GROUP ON 4/30/12 REMOVE EXIST DMH. NEW 18" CPEP(SL) WITH RCDI.
37	123+76	122+71	RT		DI	DI						24	102			X							X	7			D		43.57 ~~36~~	2.37				~~20~~ 1.79							NEW 24" CPEP(SL) WITH RCDI CB.
38	124+65	123+76	RT		DI	DI						24	86			X							X	7			D		38.03 ~~32~~	0				~~10~~ 1.79							NEW 24" CPEP(SL) WITH RCDI.
39	125+35	SL 50+35	RT-LT		MH	DI						18	~~12~~	14		X					X			7			MH COVER		7.86 ~~14~~	~~3.7~~ 0				~~9~~ 1.79							REMOVE EXIST DMH & 10" VCT. NEW 18" CPEP(SL) WITH DMH (4'). CONNECT EXIST 6" CIP.
40	125+70	125+70	LT-RT		DI	DI						18	~~30~~	40		X						X		6			D		16.05 ~~9~~					~~5~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
41	125+70	125+35	RT		DI	MH						18	32			X						X		6			D		13.52 ~~10~~					~~13~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
42	127+00	125+70	RT		DI	DI						18	~~127~~	128		X						X		7			D		33.26 ~~28~~					~~16~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
43	128+55	128+89	LT		DI	MH						18	~~30~~	31		X						X		7.0			D		15.86 ~~14~~					~~8~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
44	128+78	129+90	RT		DI	DI						18	~~108~~	106		X						X		7.0			D		35.10 ~~26~~					~~16~~ 1.79							NEW 18" CPEP(SL) WITH RCDI.
																					5	11	25				47													TYPE D GRATES
																											6													DRAIN MANHOLE COVERS
DRAINAGE DETAIL SHEET #1 SUBTOTAL:																												1538.22 ~~1248~~		~~47.1~~ 101.97				~~709~~ 84.95							
												18	~~551~~ 595			X																									
												24	~~1082~~ 1096			X																									
												30	~~1119~~ 1128			X																									
												36	~~61~~ 62			X																									

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	**BARRE CITY**
PROJECT NUMBER	**FEGC F 026-1(34) C/2**
FILE NAME: z85b010dds.xls	PLOT DATE: **3/21/2011**
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
DRAINAGE DETAIL SHEET #1	SHEET **19** OF **339**