ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

LAYOUT CODE	STATION	STATION	POSITION	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS							PIPE ELBOW	ES	MH			DI		CB				DEPTH DI/CB	DI/CB GRATE(1)	CHAN ELEV	CRM	TR EXCAV (2)		COMM EXC	UNCH CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP TH	CAAP TH	RCP CL	CSP TH	OPT.	CPEP SL	PCCSP PI TH	NO-DEG	EA	48" EA	60" EA	72" EA	30"x30" EA	(MOD.) EA	48" EA	60" EA	72" EA	96" EA	FT	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT	
H-2	~~292+65~~ 292+75	~~292+65~~ 292+75	37' LT	CB/CB						30	70					X											1		12.5	E			96											30" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
H-3	~~292+65~~ 292+75	292+65	37' ~~LT~~ RT	CB/OUT						30	46					X				1							1		13	E			78							13	I/II			30" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E, W/NEW OPTION END SECTIONS
H-4	292+61		CL																																									REMOVE EXISTING 24" RCP AND HEADWALL
H-5	292+63		63' RT																																									REMOVE EXISTING PIPE AND HEADWALL
H-6	294+10		34' LT																																									REMOVE EXISTING 18" CMP AND HEADWALL
H-7	294+70	292+65	37' LT	CB/CB						18	203					X										1				10	E			131											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
H-8	294+70	292+65	37' RT	CB/CB						18	203					X										1				9	E			118											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
H-9	295+35	294+70	37' ~~RT~~ LT	CB/CB						18	63					X										1				10	E			41											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
H-10	295+35	294+70	37' RT	CB/CB						18	63					X										1				8.5	E			30											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
H-11	292+66	292+49	65' LT	MES/DI						24	17					X				1										2.5				8									24~~18~~"		18" OPTION PIPE, W/NEW OPTION END SECTION
I-1	297+05	297+57	59' LT	DI/DI						18	50					X							1							5.5	A			8											18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
I-2	300+05	297+84	37' LT	CB~~DI~~/CB						18	219					X										1				9.5	E			97											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
I-3	81+40		17' LT																																									EXISTING PIPE TO REMAIN
I-4	297+30		35' LT																																									REMOVE EXISTING 18" CMP
I-5	81+46	80+85	17' RT	IN/OUT						18	62					X				2										2				12											18" OPTION PIPE, W/NEW OPTION END SECTIONS
I-6																																												DID NOT USE
I-7	297+57	297+84	60' LT	DI/CB						18	33					X							1							6	A			28											18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
I-8	297+84	295+35	37' LT	CB/CB						18	247					X										1				9.5	E			113											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
I-9	298+48	295+35	37' RT	CB/CB						18	311					X										1				8.5	E			97											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
I-10	300+05	300+05	55' LT	DI/CB						18	16					X							1							6.5	A			19											18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
I-11	300+30		CL																																									REMOVE EXISTING 15" CMP WITHIN THE LIMITS OF CONSTRUCTION.PLUG THE EXISTING PIPE AT THE R.O.W. AND ABANDON IN PLACE
I-12	301+08	301+36	88' LT	CB/CB						18	27					X										1				8	E			16											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
I-13	301+36	301+70	99' LT	CB/CB						18	69					X										1				8	E			70											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
I-14	301+70	304+60	39' LT	CB/CB						18	288					X										1				9.5	E			212											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
J-1	304+60	308+27	41.5' LT	CB/CB						18	365					X										1				8.5	E			214											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
J-2	304+60	308+27	37' RT	CB/CB						18	365					X										1				8.5	E			108											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
J-3	305+20		38' RT																																									REMOVE EXISTNIG 15" CMP
J-4	307+00		37' RT																																									REMOVE EXISTNIG 15" RCP AND HEADWALLS
J-5	308+27	310+04	37' LT	CB/CB						18	175					X										1				8.5	E			58											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
J-6	308+27	310+04	37' RT	CB/CB						18	175					X										1				8.5	E			61											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
J-7	309+15		37' RT																																									REMOVE EXISTING 24" RCP AND HEADWALLS
J-8	309+00		35' LT																																									REMOVE EXISTING 15" CMP AND HEADWALLS
K-1	311+30	312+32	41.5' LT	CB/CB						18	100					X										1				10.0	E			54											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
K-2	311+30	314+40	37' RT	CB/CB						18	308					X										1				8.5	E			96											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
K-3	311+50	311+30	63' LT	DI/CB						18	29					X							1							6.0	A			28											18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
K-4	312+00		40' RT																																									REMOVE EXISTING 15" CMP AND HEADWALLS
K-5	312+25	312+32	57' LT	DI/CB						18	21					X							1							6.5	A			22											18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
K-6	313+00		34' LT																																									REMOVE EXISTING 18" CMP AND HEADWALLS
K-7	314+40	316+11	37' LT	CB/CB						18	169					X										1				9.0	E			59											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
K-8	314+40	316+11	37' RT	CB/CB						18	169					X										1				8.5	E			56											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
K-9	310+04	310+04	37' LT	CB/CB						18	72					X										1				8.5	E			32											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
K-10	310+04	310+04	37' RT	CB/OUT						18	70					X				1						1				9.0	E			48								3	I			18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E, W/NEW OPTION END SECTIONS
K-11	312+32	314+40	37'~~25~~' LT	CB/CB						18	208					X										1				9.0	E			77											18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
L-1	317+00	316+11	65' LT	DI/CB						18	92					X							1							4.0	A			62											18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
COLUMN #1: SUB-TOTAL											4305									5			6			21		2					2149								16			

RECORD DRAWING REVISIONS

NO	DATE	DESCRIPTION
1.	7/24/09	FIELD MARK UPS ADDED TO THE PLANS

NOTES: * = SIDE STREET OR JUGHANDLE OR DRIVE

(1) = GRATES ARE INCIDENTAL TO CATCH BASINS / DROP INLETS.

(2) = TRENCH ITEMS TO BE INCIDENTAL TO CULVERTS, STORM DRAINS, UNDERDRAIN AND STONE OUTLETS. QUANTITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.

PROJECT NAME: U.S. ROUTE 7: SHELBURNE ROAD (F.A.P.)

PROJECT NUMBER: NH-EGC-019-4 (27)

7/20/04

DRAINAGE
ITEM DETAIL DRAWING NO. 2
SHEET 69 OF 537 SHEETS