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	CAAP	RCP	CSP	OPT.	CPEP	PCCSP PI	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	CY	SY	CY	TYPE	LT	RT	
							IN	IN	FT	IN	FT	TH	TH	CL	TH		SL	TH																											
R-4	353+50	351+25	37' RT	CB/CB						24	223					X										1				11.0	E			224												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
R-5	353+50	353+50	54' RT	DI/CB					12 ~~18~~		16					X							1							6.5	A			16												~~36~~ OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A 12" CPEP SL
R-6	357+00		38' RT																																									REMOVE EXISTING 15" CGMP AND EXISTING STRUCTURE
R-7	351+25	349+25	42' RT	CB/CB						24	198					X										1				9.5	E			102												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
R-8	356+65	353+50	37' RT	CB/CB						24	313					X										1				12.5	E			280												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-1	357+43		38' RT																																									REMOVE EXISTING STRUCTURE, 15" CGMP TO THE NORTH, AND 15" CGMP TO THE SOUTH
S-2	359+15	*281+00	37' LT	CB/OUT						24	54					X				1						1				10.0	E			56								2	I			24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E, W/ NEW OPTION END SECTION
S-3	359+10	356+65	37' RT	CB/CB						18	245					X										1				10.0	E			208												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-4	359+98	359+15	37 LT	CB/CB					18 ~~24~~		81					X										1				9.5	E			59												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-5	359+98	359+10	37' RT	CB/CB						24	88					X										1				9.5	E			65												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-6	360+05		41' RT																																									REMOVE EXISTING STRUCTURE, 24" RCP TO THE WEST, AND 15" CMP TO THE SOUTH
S-7	360+25	359+98	60' RT	DI/CB						18	36					X								1							6.5	A			31												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
S-8	360+55	359+98	37' LT	CB/CB						18	55					X										1				9.0	E			30												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-9	360+55	359+98	37' RT	CB/CB						18	55					X										1				9.0	E			29												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-10	361+50		44' RT																																									REMOVE EXISTING PIPE
S-11	362+30	360+55	37' LT	CB/CB						18	173					X										1				9.0	E			65												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-12	362+30	360+55	37' RT	CB/CB						18	173					X										1				9.0	E			64												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
S-13	359+50		79' LT																																									REMOVE EXISTING PIPE
T-1	363+75		120' RT																																									EXISTING PIPE TO REMAIN
T-2	363+78	364+44	74' RT	DI/DI						18	64					X								1							7.0	A			29												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
T-3	367+93	367+80	56' RT	DI/~~D~~CB						18	22					X										1				10.6	E			35												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
T-4	NA																																											DID NOT USE
T-5	364+20		58' RT																																									REMOVE EXISTING PIPE AND HEADWALLS
T-6	364+44	364+70	74' RT	DI/CB						18	40					X								1							6.5	A			35												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
T-7	364+35	362+30	37' LT	CB/CB						18	203					X										1				8.5	E			69												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
T-8	364+65	362+30	41.5' RT	CB/CB						18	233					X										1				8.5	E			104												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
T-9	366+20		34' RT																																									REMOVE EXISTING 18" RCP
T-10	367+50		34' RT																																									REMOVE EXISTING PIPE
T-11	367+80	369+00	37' LT	CB/CB						18	118					X										1				8.5	E			43												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
T-12	367+80	369+35	37' RT	CB/CB						18	153					X										1				8.5	E			52												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
T-13	369+00	371+40	37' LT	CB/CB						18	238					X										1				8.5	E			159												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
U-1	369+98		29' RT																																									REMOVE EXISTING STRUCTURE , 18" RCP SOUTH, AND 18" RCP TO THE NORTH
U-2	NA																																											DID NOT USE
U-3	371+40	374+55	41.5' LT	CB/CB						18	313					X												1		10.5	E			144												18" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
U-4	371+50	371+40	37' RT	CB/CB						18	76					X												1		10.0	E			52												18" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
U-5	320+92		12' LT																													1												ADJUST EXISTING DI TO GRADE
U-6	371+88		32' RT																																									REMOVE EXISTING STRUCTURE, 18" RCP NORTH, AND 18" RCP TO THE SOUTH
U-7	NA																																											DID NOT USE
U-8	372+24		33' RT																																									REMOVE EXISTING STRUCTURE, 18" RCP NORTH, AND 18" CMP TO THE EAST
U-9	372+75		35' RT																																									REMOVE EXISTING STRUCTURE AND 18" CMP NORTH
U-10	374+55	376+10	37' LT	CB/CB						18	153					X												1		9.0	E			65												18" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
U-11	374+55	374+55	7' RT	DI(MOD)/CB						18	42					X								1							9.0	A			24												18" OPTION PIPE, 30" X 30" DI (MOD.) WITH CI GRATE – TYPE E
U-12	374+55	374+55	37' RT	CB/DI(MOD)						18	26					X										1				9.0	E			20												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
U-13	374+55		37' RT																																									REMOVE EXISTING STRUCTURE, 18" CMP NORTH, AND 24" RCP TO THE WEST
COLUMN #3: SUB-TOTAL											3391									1				5		18		3				1		4120								2			

RECORD DRAWING REVISIONS

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

* = 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. 5
SHEET 72 OF 537 SHEETS