ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE D mm	PIPE L m	ALLOWABLE OPTIONS RCP TH	CAAP TH	CSP TH	CPEP TH	PCCSP TH	PIPE ELBOW NO-DEG	ES EA	CB	PCCSD	DEPTH DI	CONC CL B CM	REINF STEEL	DI GRATE TYPE	CHAN ELEV	CRM CM	TR EXCAV EARTH CM	TR EXCAV ROCK CM	COMM EXCAV CM	MUCK EARTH CM	STRUC EXCAV CM	GRAN BKF STRUC CM	GRAN BORR CM	EROS MAT SM	STONE FILL CM	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	REMARKS
0+004.5	0+004.5	LT – RT		ES/ES			300	9.0		1.6	1.7	X			2																				
0+048.6	0+057.5	LT – RT	53°	ES/ES			450	11.4		1.6	1.7	X			2																3.7	I			
0+179.8	0+192.0	LT																							6.8						6.8	I			NEW TYPE I STONE SWALE IN DRAINAGE DITCH
0+179.8	0+192.0	RT																							12.1						12.1	I			NEW TYPE I STONE SWALE IN DRAINAGE DITCH
0+216.0	0+219.8	LT																							2.7						2.7	I			NEW TYPE I STONE SWALE IN DRAINAGE DITCH
0+216.0	0+219.8	RT																							2.7						2.7	I			NEW TYPE I STONE SWALE IN DRAINAGE DITCH
0+555	0+560	LT																						10.8											18 m NEW TYPE IA DRAINAGE SWALE
0+560	0+560	RT – LT	90°	ES/ES		X	300	8.8		1.6	1.7	X			2									5.4							3.6	I			
0+660.3	0+664.5	RT – LT	61°	ES/ES		X	450	13.5		1.6	1.7	X			2									0.0							3.7				
0+664.5	0+674.5	LT																						1.0											18 m NEW TYPE IA DRAINAGE SWALE
0+740		LT		ES/			300	8.6				X			1									2.0							3.6	I			CONNECT TO EXISTING 300 mm CPEP
0+881.0	0+901.0	RT																						18.0						21.2					
0+893.1	0+901.5	RT – LT	38°	ES/ES			450	12.6		1.6	1.7	X			2									1.0							3.7	I			
1+022.5		RT	38°	ES/			300	3.5				X			1									1.0											CONNECT TO EXISTING 300 mm CPEP
1+163	1+163	RT – LT	90°	ES/ES			450	13.0		1.6	1.7	X			2									0.0							3.7	I			
1+236	1+240	LT																						5.6											9 m NEW TYPE IA DRAINAGE SWALE
1+240	1+240	RT – LT	90°	ES/ES		X	450	9.8		1.6	1.7	X			2									1.0							3.7	I			
1+340	1+400	LT																						16.0						53.0					
1+340	1+390	RT																						16.0						53.0					
1+371.3	1+380	RT – LT	56°	ES/ES			1350	11.7		2.7	2.8				2											32.8		32.8			14.1	I			
SPUR LINE																																			
10+180	10+180	LT – RT	90°	ES/ES		X	300	7.8		1.6	1.7	X			2									0.0							3.6	I			
10+180	10+185	RT																						5.9											27 m NEW TYPE IA DRAINAGE SWALE
10+278	10+282.4	RT – LT	58°	ES/ES		X	300	9.0		1.6	1.7	X			2									4.0							3.6	I			
10+282.4	10+297	LT																						11.0											14.5 m NEW TYPE IA DRAINAGE SWALE
10+297		LT		ES	X		300					X			1																				CONNECT TO EXISTING 300 mm CPEP
TOTALS							300	12.1				X			3																				
							300	34.6		1.5	1.7	X			8																				
							450	60.3		1.6	1.7	X			10																				
							1350	11.7		2.7	2.8				2																				
TOTALS															23									98.7		26.3	32.8		32.8		127.2	73.3			

GUARD RAIL

STA	STA	LT	RT	MEDIAN	ANCHORS

UNDERDRAIN / CARRIER PIPE

STA	STA	TYP	POS	D	L	TRENCH E	TRENCH R	GRAN BKF	FB	MKR PST
0+060	0+160	U	L	150	100	121.5	0		2	
0+060	0+160	U	R	150	100	121.5	0		2	
0+220	0+300	U	L	150	80	97.2	0		2	
0+160	0+180	C	L	150	25.5	31	0		1	
0+160	0+180	C	R	150	25.5	31	0		1	
0+215	0+220	C	L	150	3.5	4.3	0		1	
TOTALS						334.5	406.5		9	

FAST Metric

PROJECT NAME WILLISTON TRANSPORTATION PATH
PROJECT NUMBER 93064 STP BIKE (9)