

DRAINAGE STRUCTURES

STATION km + m	STATION km + m	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS							PIPE ELBOW NO. DEG	E S	PRC CB (MOD. 1) EA	PRC CB (MOD. 2) EA	P R C D I	DEPTH DI mm	CONC CL B m ³	REINF STEEL kg	GRATE TYPE	CHAN ELEV EA	CRM m ³	TRENCH EXCAVATION		COMM EXC m ³	UNC CHAN EXC m ³	STRUCT EXCAV m ³	GRAN BK FILL STRUCT m ³	GRAN BORR m ³	GEO FABRIC m ²	STONE FILL		MARKER POSTS		REMARKS
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CPEP (SL)	CPEP (SL)	PCCSP PI mm	EARTH m ³												ROCK m ³	m ³							m ³	m ³	m ³	m ³	
I+049.7	I+052.3	RT		(RCDI)																																	REMOVE EXISTING 1.5 m x 1.5 m DI & 600 mm CMP.						
I+049.7	I+052.2	RT		CB	ES	X					600	6.6	7	1.63	1.52	III	X	X			I	I														INSTALL CB WITH TYPE D FRAME & GRATE. INSTALL 600 mm PIPE TO OUTLET INTO DITCH WITH A STONE PAD. INSTALL 30F SNOUT OVER PIPE INLET.							
I+052.2	I+054.0	RT/LT		RCDI	CB						600	7.5	8			III		X																	CONSTRUCT RCDI WITH TYPE D FRAME & GRATE. INSTALL 600 mm PIPE TO OUTLET INTO CB.								
I+052.3	I+056.3	RT/LT		(ES)	(RCDI)																														REMOVE EXISTING 1.5 m x 1.5 m DI & 600 mm CMP AT INLET & OUTLET.								
I+054.0	I+056.3	LT		ES	RCDI	X					600	8.1	9	1.63	1.52	III	X	X			I														INSTALL 600 mm PIPE TO OUTLET INTO RCDI.								
I+054.0	I+107.0	LT		RCDI	RCDI						450	53				III		X																	CONSTRUCT RCDI WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.								
I+185.0	I+227.0	LT		RCDI	CB						450	42	1.63	1.52	III	X	X																		CONSTRUCT RCDI WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO CB.								
I+224.4	I+227.0	RT/LT		CB	ES						450	15	1.63	1.52	III	X	X			I	I														INSTALL CB WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET TO SLOPE WITH A STONE PAD. INSTALL 24F SNOUT OVER PIPE INLET.								
I+224.4	I+227.4	RT/LT		(RCDI)																															REMOVE EXISTING 1.2 m x 1.5 m DI & 450 mm CMP.								
I+229.8	I+233.4	RT		(RCDI)																															REMOVE EXISTING 1.2 m x 1.5 m DI & 450 mm CMP.								
I+229.8	I+233.4	RT		CB	ES						450	10	1.63	1.52	III	X	X			I	I														INSTALL CB WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET TO SLOPE WITH A STONE PAD. INSTALL 24F SNOUT OVER PIPE INLET.								
I+233.4	I+335.8	RT		(RCDI)	(RCDI)																														REMOVE EXISTING 1.2 m x 1.2 m DI & 450 mm RCP.								
I+233.4	I+307.0	RT		RCDI	CB						450	73	74	1.63	1.52	III	X	X																	CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO CB.								
I+307.0	I+307.0	LT/RT		RCDI	RCDI						450	6.1	7	1.63	1.52	III	X	X																	CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.								
I+307.0	I+384.0	RT		RCDI	RCDI						450	76.6	77	1.63	1.52	III	X	X																	CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.								
I+335.8	I+339.3	RT/LT		(RCDI)	(RCDI)																														REMOVE EXISTING 1.2 m x 1.2 m DI & PLUG 450 mm CMP WITH CONCRETE								
I+384.0	I+384.0	LT/RT		RCDI	RCDI						450	6.4	7	1.63	1.52	III	X	X																	CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.								
TOTALS											450	232		1.63	1.52	III	X	X			2	1	2												12.6	2	1	3					
											450	53				III		X																									
											600	16		1.63	1.52	III	X	X			2																						
											600	6				III		X																									
												22.2																															

VERMONT AGENCY OF TRANSPORTATION

PROJECT NAME: OLD BENNINGTON
PROJECT NUMBER: STP 1400(5)

FILE NAME: /pave/97d228/p97d228.dgn
PROJECT LEADER: J.P.K.
DESIGNED BY: J.S.P.
PLOT DATE: 05-MAY-2008 14:00
DRAWN BY: C.A.K.
CHECKED BY: D.E.G.
SHEET 6 OF 48

CHA CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
WINNERS CIRCLE ALBANY, NEW YORK, 12208

NOTE:
AN ESTIMATED QUANTITY OF ITEM 204.30 GRANULAR BACKFILL FOR STRUCTURES HAS BEEN INCLUDED FOR USE IN LOCATIONS AS DIRECTED BY THE RESIDENT ENGINEER.