STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB		DEPTH DI	CONC CLASS B	REINF STEEL	DI GRATE	CHAN ELEV	REPAIR STONE MASON.	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REHAB. DI,CB,MH	DRAINAGE NOTE	REMARKS
			NO. DEG.	INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	NO. DEG.	EA	EA		FT	B CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	CY	CY	TYPE	LT EA	RT EA			
45+87.74	45+93.45	RT-LT	87.7091			X					18	60					X												66.0		3.3			62.1					1	1		1	REMOVE EXISTING PIPE, INSTALL 18" CPEP (60'-0") INV. IN = 2042.29' / INV. OUT = 2031.48'
53+10.36	53+36.16	RT-LT	62.0794			X					18	56					X												50.7		4.8			47.0			7.7	II	1	1		2	REMOVE EXISTING PIPE, INSTALL 18" CPEP (56'-0") INV. IN = 2105.13' / INV. OUT = 2103.73' STONE FILL ON CUT SLOPE LT
67+62.66	67+95.74	LT-RT	62.8575			X					18	72					X												102.5		1.1			97.8					1	1		3	REMOVE EXISTING PIPE, INSTALL 18" CPEP (72'-0") INV. IN = 2056.05' / INV. OUT = 2052.60'
92+71.27		LT																										5										1	1		4	REPAIR EXISTING HEADWALL. ITEM 602.40
111+84.05		LT																						8.20	990				51.0	5.0				45.3					1	1		5	REMOVE EXISTING HEADWALL INSTALL NEW HEADWALL FOR 42" PIPE
122+21.5	122+65.39	LT-RT	55.5344			X					48	78						X											191.1		8.1			154.8					1	1		6	REMOVE EXISTING PIPE, INSTALL 48" PCCSP (78'-0") INV. IN = 1527.98' / INV. OUT = 1526.31'
132+21.05		LT		CB																																		1	1	1	7	ADJUST CATCH BASIN ELEVATION, ITEM 604.412
136+23.83		LT		CB																																		1	1	1	8	ADJUST CATCH BASIN ELEVATION, ITEM 604.412
140+44.00		LT																										5										1	1		9	REPAIR EXISTING HEADWALL, ITEM 602.40
142+92.1		RT																													3.1			3.1			8.2	II	1	1		10	RESET OUTLET SECTION OF 48" RCP STONE FILL AT OUTLET
173+59.44	173+98.82	LT-RT				X					24	4					X												0.8		0.2			0.4					1	1		11	EXTEND 24" CMP 4'-0" RT INV. IN = 1258.95' / INV. OUT = 1256.91'
207+02.74	207+37.58	LT&RT				X					18	55					X												49.2		3.6			45.6			9.5	II	1	1		12	REMOVE EXISTING PIPE, INSTALL 18" CPEP (55'-0") INV. IN = 1194.90' / INV. OUT = 1192.19'
214+78.95	214+86.65	RT&LT																													9.0						8.7	II					STONE FILL FOR 1:1 SIDE SLOPES
218+32.45	218+50.93	RT&LT				X					18	3				X													0.8		2.7			0.4			7.5	II	1	1		13	EXTEND 18" CSP 3'-0" LT INV. IN = 1168.36'
250+27.16	250+47.34	RT&LT																													4.8						5.4	II					STONE FILL FOR 1:1 SIDE SLOPES
253+78.39	253+99.39	RT&LT																													3.3						4.8	II					STONE FILL FOR 1:1 SIDE SLOPES
281+23.78		LT				X																		2.05	376				16.6		9.2			14.5					1	1		14	CONSTRUCT CONCRETE REINFORCED HEADWALL PER STD. D-33. USE SCHED. & DIM. FOR 18" PIPE, LT
294+14.03	294+14.24	RT-LT	89.6875			X					18	39					X							5.63	800				65.8		8.1			57.6			9.1	II	1	1		15	REMOVE EXISTING PIPE, INSTALL 18" CPEP (39'-0") INV. IN = 1001.64' / INV. OUT = 1000.93' CONSTRUCT CONCRETE REINFORCED HEADWALL PER STD. D-33. USE SCHED. & DIM. FOR 36" PIPE, LT
297+90.03	297+90.85	RT-LT	88.9399			X	X				18	39					X							5.63	800				58.1		7.3			49.9			9.0	II	1	1		16	REMOVE EXISTING PIPE, INSTALL 18" CPEP (39'-0") INV. IN = 997.61' / INV. OUT = 996.20' CONSTRUCT CONCRETE REINFORCED HEADWALL PER STD. D-33. USE SCHED. & DIM. FOR 36" PIPE, LT
299+38.09	299+44.59	LT-RT	81.0943			X					18	42					X												20.8		0.1			18.1					1	1		17	REMOVE EXISTING PIPE, INSTALL 18" CPEP (42'-0") INV. IN = 997.29' / INV. OUT = 996.54'
301+66.87		LT				X																		5.63	800				30.9		1.0			25.0					1	1		18	CONSTRUCT CONCRETE REINFORCED HEADWALL PER STD. D-33. USE SCHED. & DIM. FOR 36" PIPE, LT
305+63.88	305+63.91	RT-LT									18	50					X												36.9		3.0			34.1			9.9	II	1	1		19	REMOVE EXISTING PIPE, INSTALL 18" CPEP (50'-0") INV. IN = 992.05' / INV. OUT = 991.74
313+07.17	313+27.48	LT-RT																													8.5						8.4	II					STONE FILL FOR 1:1 SIDE SLOPES
328+51.49		LT																						8.20	990				32.2					5.9					1	1		20	CONSTRUCT CONCRETE REINFORCED HEADWALL PER STD. D-33. USE SCHEDULING AND DIMENSIONS FOR 42"
339+25.81		LT				X																		5.63	800				30.6					5.9					1	1		21	CONSTRUCT CONCRETE REINFORCED HEADWALL PER STD. D-33. USE SCHEDULING AND DIMENSIONS FOR 36"
344+74.96	344+76.63	LT-RT	87.7559			X					18	42					X												34.6		9.1			31.8			13.3	II	1	1		22	REMOVE EXISTING PIPE, INSTALL 18" CPEP (42'-0") INV. IN = 948.34' / INV. OUT = 948.19'
349+97.87	349+98.07	LT-RT	89.7565			X					18	46					X												33.9		0.4			30.9					1	1		23	REMOVE EXISTING PIPE, INSTALL 18" CPEP (46'-0") INV. IN = 942.22' / INV. OUT = 940.56'
362+22.88	362+43.1	LT-RT																													6.4						5.5	II					STONE FILL FOR 1:1 SIDE SLOPES
SUBTOTAL THIS SHEET																								40.97	5556			10.0	872.5	5.0	97.1			730.2			107.0		23	23	2		** SEE QUANTITY SHEETS FOR ROUNDING AND TOTALS
ROUNDING																								4.03	44			0.0	**	**	**			19.8			**		**	**	0		
TOTALS																								45	5600			10	872.5	5.0	97.1			750.0			107.0		23	23	2		

PROJECT NAME: HANCOCK
PROJECT NUMBER: STP 2923 (1)

FILE NAME: z10c252det.dgn
PROJECT LEADER: C. LATHROP
DESIGNED BY: B. MARTIN
DRAINAGE DETAIL SHEET

PLOT DATE: 3/18/2015
DRAWN BY: J. GOODALL
CHECKED BY: C. LATHROP
SHEET 25 OF 207