STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL AND DRAINAGE SHEET

STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		PIPE		ALLOWABLE OPTIONS				REHAB. DI ITEM	ES	CB	MH	DEPTH DI	CONC CLASS B	REINF STEEL	DI GRATE	MANHOLE COVER	CRM	TRENCH EXCAVATION		GRAN BKFILL STRUCT	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
			NO. DEG.	INLET	OUTLET	D IN	L FT	RCP CLASS	CAAP TH	CPEP SL	PCCSP TH	604.12	EA	EA	EA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	SY	CY	TYPE	LT EA	RT EA	
EXISTING DRAINAGE																														* REFER TO ROADWAY LAYOUT SHEETS FOR REMOVAL OR ABANDONMENT REQUIREMENT FOR EXISTING PIPES. QUANTITY OF PIPE REMOVAL IS INCLUDED IN TRENCH EXCAVATION WHERE APPLICABLE
US ROUTE 2																														
1	6+97.3	6+51.9	LT-RT		HW	HW																								RETAIN BOX CULVERT AND HEADWALLS
2	9+63.4	8+34.6	LT		PIPE	PIPE																								RETAIN PIPE
3	9+37.6	9+62.0	LT		DI	DI																								RETAIN PIPE AND STRUCTURE AT 9+37.6 LT
4	9+62.0	9+88.9	LT		DI	PIPE																								RETAIN PIPE AND STRUCTURE AT 9+62.0 LT
5	14+40.4	14+76.3	LT		DI	PIPE																								RETAIN PIPE AND STRUCTURE AT 14+40.4 LT
9	23+16.5	22+93.4	LT-RT		HW	HW																								RETAIN BOX CULVERT AND HEADWALLS
RAMP "D"																														
6	53+58.5	53+38.9	LT-RT		DI	PIPE																								REHAB STRUCTURE AT 53+58.5 LT. CONVERT DI TO MANHOLE (SEE BELOW). RETAIN PIPE.
14	50+65.0	53+58.5	LT-LT		PIPE	DI																								RETAIN UNDERDRAIN
15	54+00.0	53+58.5	LT-LT		PIPE	DI																								RETAIN UNDERDRAIN
RAMP "B"																														
7	60+91.2	60+80.1	LT-RT		HW	HW																								REMOVE HEADWALL AND INSTALL NEW CB (CMG PARK (31) SHEET 101)
8	60+98.1	60+90.8	LT-RT		PIPE	PIPE																								RETAIN PIPE. ABANDONED BY RECORD.
PROPOSED DRAINAGE																														
RAMP "D"																														
1	53+58.5	53+58.5	LT		DI	MH	18	~~10~~ 15	III		X	0.064			1					B			17.3					1		4' DIAMETER PRECAST REINFORCED CONCRETE CATCHBASIN (1 GRATE).
6	53+58.5		LT		MH	HW							1								1									CONVERT EXISTING DI TO MANHOLE. REMOVE EXISTING GRATE AND REPLACE WITH MANHOLE COVER.
TOTALS						18 18 18	10 15 ~~10~~ 10	RCP CLASS III CPEP(SL) PCCSP (0.064)				1		1						B=1	1		17.3					1		2	3 ~~2~~

STEEL BEAM GUARDRAIL, GALVANIZED					
BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	END TREATMENT LEFT FT	END TREATMENT RIGHT FT
US ROUTE 2					
6+06.0	10+95.1		475		
13+83.0	15+21.0		137.5		
13+93.8	17+58.0	375			
18+08.0	61+98.9	462.5			
21+76.0	22+26.0		12.5		
VT ROUTE 117 TO RAMP "A"					
30+53.6	35+71.1	237.5			
TOTALS		1075	625		

CURB
SEE ROADWAY LAYOUT SHEET AND CURB TIE AND LAYOUT SHEET FOR ADDITIONAL DETAILS
TOTALS

UNDERDRAIN

BEGIN STATION	END STATION	POSITION	TYPE	DIA IN.	LENGTH FT	TRENCH EARTH CY.	TRENCH ROCK CY.	GRAN BKFILL CF	FB EA	MRK. POST EA
12 15+60.8	17+64.5	RT-RT	U	6	215	79.6			~~2~~ 1	~~2~~ 1
		TOTAL 6 INCH UNDERDRAIN PIPE			215	79.6			~~2~~ 1	~~2~~
	16+50	RT								1
	17+45	RT								1
	17+40.8	RT		6					1	
TOTALS					215	79.6			2	~~3~~ ~~2~~

KEY	DATE	BY	REVISION
1	11/17/2015	VTRANS	DRAINAGE SHEET UPDATES

PROJECT NAME: **RICHMOND**
PROJECT NUMBER: **STP 0284 (17)**

FILE NAME: **Z97C186ITEMDET.XLS**
PROJECT LEADER: **ERIK ATKINS**
DESIGNED BY: **T. BIGELOW**
ITEM DETAIL AND DRAINAGE SHEET

PLOT DATE: **11/15/2012**
DRAWN BY: **T. BIGELOW**
CHECKED BY: **E. ATKINS**
SHEET **40** OF **133**