EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GRADES V.C.	GRADES % GRADE	GRADES STA	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	GRADES CORR. V.C.	GRADES DIST	COMMON EXCAVATION AREA SM	COMMON EXCAVATION QUANTITY CM	ROCK EXCAVATION AREA SM	ROCK EXCAVATION QUANTITY CM	EMBANKMENT AREA SM	EMBANKMENT QUANTITY CM	GRAVEL SUBBASE AREA SM	GRAVEL SUBBASE QUANTITY CM
		0+003.5					0.00				0.00		0.00	
						16.5 m		58.91				0.00		24.34
		0+020					7.14				0.00		2.95	
						20 m		85.90				1.00		59.00
		0+040					1.45				0.10		2.95	
						20 m		16.20				7.20		50.50
		0+060					0.17				0.62		2.10	
						20 m		107.60				6.20		42.00
		0+080					10.59				0.00		2.10	
						20 m		308.70				0.00		42.00
		0+100					20.28				0.00		2.10	
						20 m		395.80				0.00		42.00
		0+120					19.40				0.00		2.10	
						20 m		237.60				0.00		42.00
		0+140					4.36				0.00		2.10	
						20 m		44.80				9.20		50.50
		0+160					0.12				0.92		2.95	
						20 m		55.90				9.20		59.00
		0+180					5.47				0.00		2.95	
						17.3 m		64.36				55.62		51.04
		0+197.3					1.97				6.43		2.95	
							BRIDGE							
		0+212.7					3.61				5.75		2.95	
						7.25		24.29				19.36		17.33
		0+220					3.09				0.19		1.83	
						20 m		267.90				1.90		36.60
		0+240					23.70				0.00		1.83	
						20 m		408.30				0.00		36.60
		0+260					17.13				0.00		1.83	
						20 m		296.80				0.00		36.60
		0+280					12.55				0.00		1.83	
						20 m		239.90				0.00		36.60
		0+300					11.44				0.00		1.83	
						20 m		197.30				0.00		39.00
		0+320					8.29				0.00		2.07	
						20 m		88.90				0.00		41.40
		0+340					0.60				0.00		2.07	
						20 m		6.00				22.80		41.40
		0+360					0.00				2.28		2.07	
						20 m		0.00				73.60		41.40
		0+380					0.00				5.08		2.07	
						20 m		0.00				94.80		41.40
		0+400					0.00				4.40		2.07	
						20 m		0.00				60.10		41.40
		0+420					0.00				1.61		2.07	
						20 m		15.10				16.10		41.40
		0+440					1.51				0.00		2.07	
						20 m		48.40				0.00		41.40
		0+460					3.33				0.00		2.07	
						20 m		83.60				0.00		41.40
		0+480					5.03				0.00		2.07	
						20 m		82.30				0.00		41.40
		0+500					1.20				0.00		2.07	
						20 m		14.80				19.90		41.40
		0+520					0.28				1.99		2.07	
						20 m		16.70				19.90		41.40
		0+540					1.39				0.00		2.07	
						20 m		44.80				0.00		41.40
		0+560					3.09				0.00		2.07	
						20 m		33.40				27.40		41.40
		0+580					0.25				2.74		2.07	
						20 m		2.50				74.60		41.40
		0+600					0.00				4.72		2.07	
						20 m		23.00				47.20		41.40
		0+620					2.30				0.00		2.07	
						20 m		33.30				2.70		41.40
		0+640					1.03				0.27		2.07	
						20 m		10.30				55.90		41.40
		0+660					0.00				5.32		2.07	
						20 m		13.20				54.80		41.40
		0+680					1.32				0.16		2.07	
						20 m		29.70				1.60		41.40
		0+700					1.65				0.00		2.07	
		TOTALS						3337.26				681.08		1451.71

GRADES V.C.	GRADES % GRADE	GRADES STA	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	GRADES CORR. V.C.	GRADES DIST	COMMON EXCAVATION AREA SM	COMMON EXCAVATION QUANTITY CM	ROCK EXCAVATION AREA SM	ROCK EXCAVATION QUANTITY CM	EMBANKMENT AREA SM	EMBANKMENT QUANTITY CM	GRAVEL SUBBASE AREA SM	GRAVEL SUBBASE QUANTITY CM
		0+720				20 m	0.89	25.40			0.47	4.70	2.07	41.40
		0+740				20 m	0.00	8.90			7.50	79.70	2.07	41.40
		0+760				20 m					5.13	126.30	2.07	41.40
		0+780				20 m					4.81	99.40	2.07	41.40
		0+800				20 m					5.40	102.10	2.07	41.40
		0+820				20 m					5.15	105.50	2.07	41.40
		0+840				20 m					5.05	102.00	2.07	41.40
		0+860				20 m					3.38	84.30	2.07	41.40
		0+880				20 m	0.00	33.60			0.57	39.50	2.07	41.40
		0+900				20 m	3.36	68.80			0.00	5.70	2.07	41.40
		0+920				20 m	3.52	74.10				0.00	2.07	41.40
		0+940				20 m	3.89	69.30					2.07	41.40
		0+960				20 m	3.04	50.40					2.07	41.40
		0+980				20 m	2.00	29.80			0.00	29.80	2.07	41.40
		1+000				20 m	0.98	19.80			2.98	101.00	2.07	41.40
		1+020				20 m	1.00	25.10			7.12	71.20	2.07	41.40
		1+040				20 m	1.51	15.10			0.00	10.60	2.07	41.40
		1+060				20 m	0.00				1.08	67.20	2.07	41.40
		1+080				20 m					5.64	164.30	2.07	41.40
		1+100				20 m					10.79	201.40	2.07	41.40
		1+120				20 m					9.35	179.00	2.07	41.40
		1+140				20 m					8.55	189.20	2.07	41.40
		1+160				20 m					10.37	165.80	2.07	41.40
		1+180				20 m					6.21	76.80	2.07	41.40
		1+200				20 m					1.47	32.40	2.07	41.40
		1+220				20 m	0.00	7.20			1.77	25.40	2.07	41.40
		1+240				20 m	0.72	23.70			0.77	7.70	2.07	41.40
		1+260				20 m	1.65	16.50			0.00	26.40	2.07	41.40
		1+280				20 m	0.00	0.00			2.64	54.00	2.07	41.40
		1+300				20 m	0.00	8.70			2.76	30.90	2.07	41.40
		1+320				20 m	0.87	15.80			0.33	15.80	2.07	41.40
		1+340				20 m	0.71	7.10			1.25	104.30	2.07	41.40
		1+360				20 m	0.00	10.80			9.18	143.30	2.07	41.40
		1+380				20 m	1.08	23.90			5.15	51.50	2.07	36.70
		1+400				20 m	1.31	38.20			0.00	0.00	1.60	32.00
		1+420				20 m	2.51	58.20			0.00	0.00	1.60	32.00
		1+440					3.31	630.40			0.00	2497.40	1.60	1508.30

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								8.28				0.00		8.00
		1+445					0.00					0.00		1.60
							SPUR LINE							
		10+001.5					0.00					0.00		0.00
						18.5 m		2.41						19.15
		10+020					0.26				1.76		2.07	
						20 m		6.00				24.90		41.40
		10+040					0.34				0.73		2.07	
						20 m		8.60				12.10		41.40
		10+060					0.52				0.48		2.07	
						20 m		24.20				5.70		41.40
		10+080					1.90				0.09		2.07	
						20 m		19.00				9.30		41.40
		10+100					0.00				0.84		2.07	
						20 m		0.00				26.90		41.40
		10+120					0.00				1.85		2.07	
						20 m		0.00				37.00		41.40
		10+140					0.00				1.85		2.07	
						20 m		0.00				23.80		41.40
		10+160					0.00				0.53		2.07	
						20 m		5.20				6.00		41.40
		10+180					0.52				0.07		2.07	
						20 m		17.70				1.50		41.40
		10+200					1.25				0.08		2.07	
						20 m		25.60				1.20		41.40
		10+220					1.31				0.04		2.07	
						20 m		29.30				0.40		41.40
		10+240					1.62				0.00		2.07	
						20 m		25.90				2.20		41.40
		10+260					0.97				0.22		2.07	
						20 m		25.70				4.40		36.70
		10+280					1.60				0.22		1.60	
						19 m		35.82				2.09		30.40
		10+299					2.17				0.00		1.60	
		TOTALS						233.71				173.77		591.05

SUMMARY BY COLUMNS

SHEET NO	COL NO	EXCAVATION TOTAL CUBIC METERS	EXCAVATION ROCK CUBIC METERS	EMBANKMENT CUBIC METERS
7	1	3 337		681
	2	630		2 497
	3	234		174
TOTAL		4 201		3 352

- REMARKS -

COMMON EXCAVATION	4 201
SOLID ROCK EXCAVATION	0
COMMON EXCAVATION	4 201
PLANIMETERED FILL	3 352
LESS FACTORED SOLID ROCK	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	3 352
FACTOR (+15%)	503
PLANIMETERED FILL INCLUDING FACTOR	3 855
MATERIALS AVAILABLE FOR FILLS	0
COMMON EXCAVATION	4 201
TRENCH EXCAVATION	505
UNDERDRAIN EXCAVATION	407
STRUCTURE EXCAVATION	0
TOTAL MATERIAL AVAILABLE FOR FILL	5 113
TOTAL FILL INCLUDING FACTOR	3 855
TOTAL MATERIAL FOR FILL	5 113
BORROW	0
EXCESS EXCAVATION	1 258

VAOT Metric

PROJECT NAME - WILLISTON TRANSPORTATION PATH

PROJECT NUMBER STP BIKE (9) 93-064

SHEET 7 OF 36 SHEETS