EARTHWORKS

% GDE	VERT CUR	STATION	GRADES ELEVATION ON TAN.	ON V.C.	CORR. V.C.	DIST.	COMMON EXC. AREA	COMMON EXC. VOLUME	GRAVEL AREA	GRAVEL VOLUME	SAND AREA	SAND VOLUME
		BEGIN APPROACH										
		2+000	365.440	365.440	0.000		0.88		0.00		0.00	
						5.00		4.53		0.00		0.00
		2+005	365.287	365.287	0.000		0.93		0.00		0.00	
-4.8910%		BEGIN PROJECT				15.00		90.47		16.89		17.38
	PVC1	2+020	364.588	364.588	0.000		10.21		2.35		2.36	
-4.8909%						20.00		219.35		52.31		56.36
		2+040	363.610	363.885	0.275		10.80		2.98		3.32	
PVI1						15.00		139.59		42.55		45.59
		2+055	363.662	363.718	0.096		7.81		2.70		2.76	
						1.00		9.54		4.74		2.64
		2+056	363.674	363.717	0.043		11.27		6.79		2.53	
						4.00		44.14		27.44		10.76
		2+060	363.720	363.731	0.011		10.79		6.93		2.85	
	PVT1	BEGIN BRIDGE				11.00		93.70		66.52		26.20
1.1523%		2+071	363.846	363.846	0.000		6.24		5.16		1.91	
		END BRIDGE										
		2+089	364.054	364.054	0.000		4.58		4.78		1.73	
						11.00		159.13		74.56		29.74
		2+100	364.180	364.180	0.000		24.36		8.78		3.68	
						4.00		101.95		35.89		14.55
		2+104	364.226	364.226	0.000		26.62		9.17		3.59	
						1.00		23.89		6.33		3.70
		2+105	364.238	364.238	0.000		21.17		9.17		3.60	
	PVC2					15.00		266.30		88.97		47.42
		2+120	364.411	364.367	-0.044		14.34		2.69		2.72	
PVI2						20.00		263.71		53.51		54.61
-2.3300%		2+140	364.293	364.249	-0.044		12.03		2.66		2.74	
		END PROJECT				10.00		111.48		26.75		27.64
	PVT2	2+150	364.060	364.060	0.000		10.27		2.69		2.79	
-2.3000%						10.00		67.28		25.29		26.28
		2+160	363.830	363.830	0.000		3.19		2.37		2.47	
-2.1000%						5.00		8.98		6.83		6.17
		2+165	363.717	363.717	0.000		0.40		0.37		0.00	
		END APPROACH				15.00		6.14		2.74		0.00
+1.2000%		2+180	363.740	363.740	0.000		0.42		0.00		0.00	
					SUBTOTAL =		1594.08		535.89		369.75	
					ROUNDED TOTAL=		1600		540		370	

EARTHWORK SUMMARY

MATERIAL REQUIRED:	PLANIMETERED FILL =	70
	FILL FACTOR (0.15) =	11
	TOTAL MATERIAL REQUIRED =	81
MATERIAL AVAILABLE:	COMMON EXCAVATION =	1600
	COFFERDAM EXC., EARTH X 30% =	216
	UNCLASS. CHANNEL EXC. X 30% =	47
	TOTAL MATERIAL AVAILABLE =	1863
BORROW OR WASTE:	MATERIAL AVAILABLE =	1863
	MATERIAL REQUIRED =	81
	WASTE =	1782

QUANTITY SHEET

ITEM NO.	ITEM	UNIT	BRIDGE QUANTITY BREAKDOWN SUPERSTR.	ABUT. 1	ABUT. 2	CHANNEL	BRIDGE	ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	ROUNDING	TOTAL	FINAL
201.10	CLEARING AND GRUBBING, INCLUDING	LS						1				1	
	INDIVIDUAL TREES & STUMPS												
203.15	COMMON EXCAVATION	CM						1600				1600	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CM				155	155					155	
203.31	SAND BORROW	CM						370				370	
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	CM						1				1	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CM		300	195		495					495	
208.30	COFFERDAM EXCAVATION, EARTH	CM		465	255		720					720	
208.35	COFFERDAM EXCAVATION, ROCK	CM		40	30		70					70	
208.40	COFFERDAM (STA 2+071.607)	LS		1			1					1	
208.40	COFFERDAM (STA 2+089.907)	LS			1		1					1	
210.10	COLD PLANNING, BITUMINOUS PAVEMENT	SM						100				100	
301.15	SUBBASE OF GRAVEL	CM						540				540	
401.10	AGGREGATE SURFACE COURSE	CM						140				140	
406.25	BITUMINOUS CONCRETE PAVEMENT	T	21				21	244				265	
406.50	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	LU						1				1	
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CM		90	50		140					140	
507.15	REINFORCING STEEL	KG		6290	3290		9580					9580	
507.16	DRILLING AND GROUTING DOWELS	M		14	27		41					41	
514.10	WATER REPELLENT, SILANE	L	14	8	8		30					30	
519.20	SHEET MEMBRANE WATERPROOFING, TORCH APPLIED	SM	114				114					114	
524.13	JOINT SEALER, COLD POURED	M	8.5				8.5					8.5	
528.12	TEMPORARY PEDESTRIAN BRIDGE (34.5 SM-EST)	LS	1				1					1	
529.20	PARTIAL REMOVAL OF STRUCTURE	EACH	1				1					1	
531.11	BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD	EACH	8				8					8	
613.10	STONE FILL, TYPE I	CM						50				50	
613.11	STONE FILL, TYPE II	CM				290	290					290	
621.56	ENERGY ABSORPTION ATTENUATOR	EACH						3				3	
621.60	ANCHOR FOR STEEL BEAM RAIL	EACH						4				4	
621.90	TEMPORARY TRAFFIC BARRIER	M						60				60	
630.15	FLAGGERS	HR						2000				2000	
631.10	FIELD OFFICE, ENGINEERS	LS								1		1	
631.16	TESTING EQUIPMENT, CONCRETE	LS								1		1	
631.17	TESTING EQUIPMENT, BITUMINOUS	LS								1		1	
631.25	FIELD OFFICE TELEPHONE (N.A.B.I.)	LU								1		1	
635.11	MOBILIZATION/DEMOBILIZATION	LS						1				1	
641.10	TRAFFIC CONTROL	LS						1				1	
641.17	PORTABLE CHANGEABLE MESSAGE SIGN RENTAL	DAY						70				70	
649.31	GEOTEXTILE UNDER STONE FILL	SM				560	560	160				720	
649.515	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	SM							330			330	
649.61	GEOTEXTILE FOR FILTER CURTAIN	SM							60			60	
651.15	SEED	KG							10			10	
651.17	SEED, WINTER RYE	KG							5			5	
651.18	FERTILIZER	KG							80			80	
651.20	AGRICULTURAL LIMESTONE	T							1			1	
651.25	HAY MULCH	T							1			1	
651.35	TOPSOIL	CM							40			40	
651.40	GRUBBING MATERIAL	SM							310			310	
652.10	EPSC PLAN	LS							1			1	
652.20	MONITORING EPSC PLAN	HR							10			10	
652.30	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	LU							1			1	
653.20	TEMPORARY EROSION MATTING	SM							700			700	
653.25	TEMPORARY STONE CHECK DAM, TYPE I	CM							10			10	
653.50	BARRIER FENCE	M							400			400	
675.50	REMOVING SIGNS	EACH						3				3	
675.60	ERECTING SALVAGED SIGNS	EACH						3				3	
675.61	SETTING SALVAGED POSTS	EACH						3				3	
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH						1				1	
900.608	SPECIAL PROVISION (GROUT BAGS)	CM				1	1					1	
900.640	SPECIAL PROVISION (HD STEEL BEAM GUARDRAIL, WEATHERING) (WOOD POSTS)	M						142				142	
900.640	SPECIAL PROVISION (BRIDGE RAILING, WEATHERING HD STEEL BEAM/FASCIA MOUNTED)	M	42				42					42	
900.675	SPECIAL PROVISION (PRECAST PRECOMPRESSED CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE)	SM	129				129					129	

McFarland Johnson

REVISIONS
REVISED QUANTITIES.

BRIDGE(S) AT STATION(S) TH 18 OVER SOUTH BRANCH
LOCATION(S) MIDDLEBURY RIVER

PREPARED BY: W J GAYNOR
CHECKED BY: Y I LIU
SUPERVISOR: R L JOY

PROJECT: RIPTON
BR OF
PROJECT NO: FH 010-1(2)
SHEET NO: 5R OF 26