QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

APPROXIMATE SUMMARY OF QUANTITIES

EROSION CONTROL	BRIDGE	ROADWAY	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	DESIGN
			210	CY	COMMON EXCAVATION	203.15	14
			1350	CY	GRANULAR BORROW	203.32	15
			20	CY	TRENCH EXCAVATION OF EARTH	204.20	2
			75	CY	STRUCTURE EXCAVATION	204.25	7
			100	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	1
			* 540	CY	SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)	301.25	14
			170	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	10
			48	CY	CONCRETE, CLASS B	501.25	1.5
			5600	LB	REINFORCING STEEL	507.15	42
			115	LF	DRILLING AND GROUTING DOWELS	507.16	–
			2	GAL	WATER REPELLENT	514.10	–
			0.65	MFBM	NON-STRUCT. LUMBER - TREATED	522.35	
			48	LF	18" CSP .064	601.0015	–
			2	EACH	18" CSPES .064	601.6015	
			240	CY	* DRY RUBBLE MASONRY (MOD.)	602.20	
			6	EACH	CHANGING ELEVATION OF MANHOLE	604.23	–
			1	EACH	CAST IRON GRATE WITH FRAME, TYPE D	604.51	
			5	HOUR	ALL PURPOSE EXCAVATOR, TYPE I	608.25	
			5	HOUR	TRUCK RENTAL	608.37	
			220	CY	STONE FILL, TYPE I	613.10	20
			1100	LF	** CHAIN LINK FENCE 4 FEET (MOD.)	620.11	21
			6	EACH	BRACING ASSY. FOR CHAIN LINK FN. (4 FEET)	620.20	21
			4	LF	GATE FOR CHAIN LINK FENCE, 4 FEET	620.15	–
			75	LF	STEEL BEAM GUARD RAIL	621.20	–
			1	EACH	ANCHOR FOR STEEL BEAM GUARD RAIL	621.60	–
			70	LF	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	–
			4	EACH	GUIDE POSTS	621.85	–
			2	EACH	GUIDE POSTS (MODIFIED)	621.85	–
			40	HOUR	UNIFORMED TRAFFIC OFFICERS	630.10	–
			40	HOUR	FLAGGERS	630.15	–
			0.50	LS	TESTING EQUIPMENT - CONCRETE	631.16	
			0.50	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	
			0.65	LS	MOBILIZATION	635.10	–
			500	SY	GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR	649.11	30
			130	SY	GEOTEXTILE FOR SILT FENCE	649.51	14
			20	LB	SEED	651.15	–
			125	LB	FERTILIZER	651.18	–
BASED ON 0.25 AC. OF DISTURBED AREA			0.5	TON	AGRICULTURAL LIMESTONE	651.20	–
			0.5	TON	HAY MULCH	651.25	–
			80	CY	TOPSOIL	651.35	H
			55	SF	TRAFFIC SIGNS (TYPE A)	675.20	48
			600	LB	FLANGED CHANNEL SIGN POSTS	675.30	15

DETAILED SUMMARY OF QUANTITIES

QUANTITY	UNIT	PAY ITEM

* SEE NOTES ON SHEET 6

** ESTIMATED 467 FEET OF FENCE WORK IN GROUND WITH 612 FEET DRILLED INTO CONCRETE BLOCK RETAINING WALLS. SEE NOTE EXPLAINING MODIFICATION ON SHEET 6

GRADES AND EARTHWORK

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON V CURVE	V.C. CORR.	DIST. (FT)	TOTAL EXCAV. EARTH & ROCK AREA (SF)	TOTAL EXCAV. EARTH & ROCK VOL. (CY)	ROCK EXCAVATION AREA (SF)	ROCK EXCAVATION VOL. (CY)	EMBANKMENT AREA (SF)	EMBANKMENT VOL. (CY)

COLUMN TOTALS

EARTHWORK SUMMARY

EARTH AND ROCK EXCAVATION	0 CY
SOLID ROCK EXCAVATION	0 CY
EARTH EXCAVATION	191 CY
PLANIMETERED FILL	1161 CY
LESS FACTORED SOLID ROCK	0 CY
LESS DISPLACEMENT OF LARGE STRUCTURES	0 CY
NET PLANIMETERED FILL	1161 CY
FACTOR (0.15 x NET PLANIMETERED FILL)	174 CY
PLANIMETERED FILL INCLUDING FACTOR	1335 CY
MATERIALS AVAILABLE FOR FILLS:	
EARTH EXCAVATION	191 CY
CHANNEL EXCAVATION (%x CY)	0 CY
UNDERDRAIN EXCAVATION (%x CY)	0 CY
STRUCTURE EXCAVATION (%x CY)	68 CY
TOTAL MATERIAL AVAILABLE FOR FILLS	259 CY
TOTAL FILL	1335 CY
TOTAL MATERIAL FOR FILLS	259 CY
BORROW REQUIRED *	1076 CY
EXCESS EXCAVATION	CY
LESS FACTORED DEDUCTIBLE GRANULAR BORROW	CY
NET EARTH BORROW	CY
NET EXCESS EXCAVATION	CY

* USE GRANULAR BORROW FOR FILLS

UNDERDRAIN AND CARRIER PIPE

STATION TO STATION	TYPE U	TYPE B	POS	D (IN)	L (FT)	TRENCH EXC. EARTH (CY)	TRENCH EXC. ROCK (CY)	GRAN BKF (CY)	FB (EA)	MKR POSTS (EA)
COLUMN TOTALS										

GUARD RAIL, THREE CABLE W/LT.____POSTS

STATION TO STATION	POS	MEASURED LENGTH (FT & IN)	POST SPACING (FT & IN)	FACTOR	PAY LENGTH (LF)	ANCHORS 621.66 (EA)	ANCHORS 621.67 (EA)
COLUMN TOTALS							

GUARD RAIL, BOX BEAM W/ST POSTS

STATION TO STATION	POS	POST SPACING (FT & IN)	PAY LENGTH (LF)	REMARKS
COLUMN TOTALS				

DRAINAGE STRUCTURES

STATION	POS	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	RCP D (IN)	RCP L (FT)	RCP CL	CSP D (IN)	CSP L (FT)	CSP THKNS	OPTION PIPES D (IN)	OPTION PIPES L (FT)	OPTION PIPES RCP CL	OPTION PIPES CGMP TH	OPTION PIPES CGMP TH	RCD DEPTH	MES. (EA)	PROC DEPTH (FT)	CONC CL B (CY)	REINF STEEL (LB)	CB GRATE TYPE	CRM (CY)	TRENCH EXC. EARTH (CY)	TRENCH EXC. ROCK (CY)	ST FILL TYPE (CY)	GRAN. BKF STRUCT.	MKR POST LT	MKR POST RT	REMARKS
1+25	℄	90°	MES/MES						18	28	.064							2						0	0		0			NO EXCAVATION REQUIRED IN FILL
3+50	℄	90°	RCD1/						18	20	.064						3.0			3.0	173	D		18			12			REMOVING RIPRAP IN TRENCH EXCVTN.
COLUMN TOTALS									48									2		3.0	173	D		18			12			

GUARD RAIL, HEAVY DUTY STEEL BEAM WITH WOOD POSTS, TYPE II

STATION	TO STATION	POS	MEASURED LENGTH (FT & IN)	POST SPACING (FT & IN)	FACTOR	PAY LENGTH (LF)	ANCHORS 621.60 (EA)	ANCHORS 621.61 (EA)	REMARKS
11+08	11+31	LT	25	6'-3"	1.0	27	1		FIELD CHECK LOCATION PRIOR TO CONSTRUCTION
11+27	11+65	RT	45	6'-3"	1.0	45			FIELD CHECK LOCATION PRIOR TO CONSTRUCTION
11+08 LT	11+65 RT	—	70	6'-3"					REMOVE THIS 70'± SECTION OF GUARD RAIL
COLUMN TOTALS						72	1		

TYPE OF CONSTRUCTION: ____

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS –	REMARKS

AUG 9 1994

REVISED 10-25-91
REVISED 9-27-91

STATE OF VERMONT — CHARLES A. GRENIER NO. 5848 — REGISTERED PROFESSIONAL ENGINEER

Charles Grenier

TOWN OF STOWE - RIVER WALK
"QUANTITY SHEET"

CHARLES GRENIER
CONSULTING ENGINEER
BOX 445, WATERBURY, VERMONT
244-6413

PROJECT BW-RS-BIKE (2S)

DATE = 8-23-91
DRN BY = N.A.
SCALE = N.A.
SHT 6 OF 32

JUN 30 1992

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