

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

Std. Macadam

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

EMONT PELIER PLAINFIELD A. P. NO.

F. A. P. NO.

Form Eng. 3A

Summary Sheet No.

192

Form Eng. 3A

Summary Sheet No.

192

APPROXIMATE SUMMARY OF QUANTITIES				APPROXIMATE SUMMARY OF QUANTITIES				Type of Road BITUMINOUS MACADAM SURFACE COURSE			
QUANTITIES	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	ITEM NUMBER	STATIONS		EQUATIONS	
								FROM	TO	+	-
		Common Excavation	10		Lin. Ft.	12"	Pipe				
1000		Solid Rock Excavation	10		Lin. Ft.	15"	Pipe				
		Borrow	11		Lin. Ft.	16"	Pipe				
27000		Common Excavation including Borrow	10-11		Lin. Ft.	18"	Pipe				
		Sub-base of Field or Quarry Stone	12A		Lin. Ft.	24"	Pipe				
		Sub-base of Crushed Rock or Slag	12B		Lin. Ft.	30"	Pipe				
					Lin. Ft.	36"	Pipe				
30,000		Sub-base of Gravel	12B		Lin. Ft.	12" Reinf. Conc	Pipe	49A			
		Telford Base Course	12D		Lin. Ft.	15"	Pipe	49B			
		Sub-base of Sand	12E		Lin. Ft.	16"	Pipe				
15	Days	Patrol Maintenance	13		Lin. Ft.	18"	Pipe	49C			
		Structure Excavation	15		Lin. Ft.	24"	Pipe	49D			
3049		Broken Stone Base Course (3)	16		Lin. Ft.	30"	Pipe				
					Lin. Ft.	36"	Pipe				
		Gravel Surface Course	20A								
		Gravel Surface Course (Crushed)	20B								
		Gravel Shoulders	21		Lin. Ft.	Relaying Pipe Culverts		51			
2542		Bituminous Macadam Surface Course 2 1/2"	22A								
100722		Oil Asphalt	22C			Lump		55			
		Refined Tar	23A			Sum		56			
		One Course Cement Concrete Pavement Type A	23B		Lin. Ft.	Temporary Bridge		57			
		One Course Cement Concrete Pavement Type B			M. B. M.	Timber Piling					
		Bituminous Concrete Surface Course				Timber Grillage					
		Single Bituminous Surface Treatment	25		Cu. Yds.	Stone Fill		60			
		Double Bituminous Surface Treatment	26		Cu. Yds.	Plain Rip Rap		61			
		Natural Rock Asphalt Surface	27		Cu. Yds.	Rip Rap for Bank Protection (Est)		62			
		Concrete Class AA (1-1-3)	34AA		Lin. Ft.	Std		65B			
175		Concrete Class A	34A		Lin. Ft.	Un'ndrain with 6" P.C.G.M.P. BIT. COATED		66			
		Concrete Class B (1-2-3)	34B		Lin. Ft.	Wood Guard Rail		67A			
7500		Reinforcing Steel	34		Lin. Ft.	Cable Guard Rail WITH WOOD POSTS		68A			
		Structural Steel	36A		Each	Guide Posts of Wood		70A			
		Lump			Cu. Yds.	Plain Rubble Paving		70B			
		Sum	36B		Cu. Yds.	Grouted Rubble Paving		69			
		Steel Superstructure				EACH STATE OR FEDERAL AID MARKERS		73			
		Waterproofing Membrane	37		Sq. Yds.	Plain Cement Concrete Gutter		74A			
					Sq. Yds.	Plain Cobble Gutter		74B			
350		Cement Rubble Masonry	43		Sq. Yds.	Grouted Cobble Gutter		75			
		Dry Rubble Masonry	44		Each	Leaching Basins		76A			
		Repainting Masonry	45		Each	Catch Basins OF BRICK		77			
					Each	Changing Elevations of Manholes and Catch Basins		78			
		6" Vitrified Clay Pipe	50B		Each	Drop Inlet Grates					
		8" Vitrified Clay Pipe	50C								
		10" Vitrified Clay Pipe	50D								
		12" Vitrified Clay Pipe	50E								
Contract Total				DETAILED SUMMARY OF QUANTITIES							
500	cy	Solid Rock Excavation		42.1	cy	Concrete Class A					
167	"	Roadway (Est)		8.1	"	Pipe Culverts					
333	"	Culverts x Factors		97.5	"	Box Culverts (Repairs)					
1000	"	Overrun		27.3	"	Wall at Plainfield					
		Total		175.0	"	Curb & Gutter & Overrun					
						Total					
13821	cy	Common Excav. Incl. Borrow		3620	lbs	Reinforcing Steel					
3321	"	Roadway as per plans		600	"	Pipe Culverts					
2635	"	Borrow		1300	"	Boxes					
1360	"	Culverts x Factor		1980	"	Wall at Plainfield					
261	"	Underdrain x Factor		7500	"	Curb, Gutter, & Overrun					
5602	"	Retaining Walls				Total					
27000	"	Overrun				Cement Rubble Masonry					
		Total		14.0	cy	Culvert Headwalls					
				293.5	"	Retaining Walls					
				42.5	"	Overrun					
				350.0	"	Total					
25881	cy	Sub-base of Gravel				Grouted Cobble Gutter					
1000	"	Roadway as per plans				As per plans					
261	"	Driveways & Culverts		229	sayds	Overrun					
2858	"	Ret. Wall Backfill		271	"	Total					
30,000	"	Overrun		500	"						
		Total									

Government Participation

Common Excavation Incl. Borrow
 137094 Roadway as per Section
 24954 Borrow
 26354 Culverts x Factor
 1360 Underdrain x Factor
 261 Retaining Walls
 5040 Overrun
 25500 Total

Sub-base of Gravel
 25384 Roadway as per plans
 1000 Driveway & Culverts
 261 Ret. Wall - Backfill
 2755 Overrun
 29400 Total

Broken Stone Base Course

2898 y

Broken Stone Surface Course

2416 y

68A Oil Asphalt

95744 gals

Non-Govt. Participation

Common Excavation Incl. Borrow
 1124 Roadway as per Sections
 846 Borrow
 562 Overrun

Sub-base of Gravel
 4974 Roadway as per plans
 1036 Overrun

600 y

Broken Stone Base Course

151 y

Broken Stone Surface Course

126 y

Oil Asphalt

4978 gals