STATE OF VERMONT **DEPARTMENT OF HIGHWAYS** Asphalt Emulsion

E. MONTPELIER – PLAINFIELD F. A. P. NO. 97-E

Form Eng. 3A Summary Sheet No. 192

APPROXIMATE SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS	ITEM NUMBER
	Cu. Yds.	Common Excavation	10
1,000	Cu. Yds.	Solid Rock Excavation	10
	Cu. Yds.	Borrow	11
27,000	Cu. Yds.	Common Excavation including Borrow	10–11
	Cu. Yds.	Sub-base of Field or Quarry Stone	12A
	Cu. Yds.	Sub-base of Crushed Rock or Slag	12B
30,000	Cu. Yds.	Sub-base of Gravel	12[redacted] B
	Cu. Yds.	Telford Base Course	12D
	Cu. Yds.	Sub-base of Sand	12E
15	Days	Patrol Maintenance	13
	Cu. Yds.	Structure Excavation	15
3049	Cu. Yds.	Broken Stone Base Course (3")	16
2542	" "	"Crushed" Stone Penetration Surface Course (2½")	22B
	Cu. Yds.	Gravel Surface Course	20A
	Cu. Yds.	Gravel Surface Course (Crushed)	20B
	Cu. Yds.	Gravel Shoulders	21
	Cu. Yds.	Bituminous Macadam Surface Course	22A
95228	Gals.	[redacted] Asphalt Emulsion Binder	22[redacted] E
	Gals.	Refined Tar	
	Cu. Yds.	One Course Cement Concrete Pavement Type A	23 A
	Cu. Yds.	One Course Cement Concrete Pavement Type B	23B
	Sq. Yds.	Bituminous Concrete Surface Course	
	Sq. Yds.	Single Bituminous Surface Treatment	25
	Sq. Yds.	Double Bituminous Surface Treatment	26
	Sq. Yds.	Natural Rock Asphalt Surface	27
	Cu. Yds.	Concrete Class AA (1-1½-3)	34AA
175	Cu. Yds.	Concrete Class A [redacted]	33A [redacted]
	Cu. Yds.	Concrete Class B (1-2½-5)	34B
9500	lbs.	Reinforcing Steel	34 [redacted]
	lbs.	Structural Steel	36A
	Lump Sum	Steel Superstructure	36B
	Sq. Yds.	Waterproofing Membrane	37
350	Cu. Yds.	Cement Rubble Masonry	43
	Cu. Yds.	Dry Rubble Masonry	44
	Sq. Yds.	Repointing Masonry	45
	Lin. Ft.	6" Vitrified Clay Pipe	50B
	Lin. Ft.	8" Vitrified Clay Pipe	50C
	Lin. Ft.	10" Vitrified Clay Pipe	50D
	Lin. Ft.	12" Vitrified Clay Pipe	50E

APPROXIMATE SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS		ITEM NUMBER
	Lin. Ft.	12"	Pipe	
	Lin. Ft.	15"	Pipe	
	Lin. Ft.	16"	Pipe	
	Lin. Ft.	18"	Pipe	
	Lin. Ft.	24"	Pipe	
	Lin. Ft.	30"	Pipe	
	Lin. Ft.	36"	Pipe	
912	Lin. Ft.	12" Reinf Conc	Pipe	49A
1040	Lin. Ft.	15"	Pipe	49B
	Lin. Ft.	16"	Pipe	
608	Lin. Ft.	18"	Pipe	49C
20	Lin. Ft.	24"	Pipe	49D
	Lin. Ft.	30"	Pipe	
	Lin. Ft.	36"	Pipe	
150	Lin. Ft.	Relaying Pipe Culverts		51
	Lump Sum	Temporary Bridge		55
	Lin. Ft.	Timber Piling		56
	M. B. M.	Timber Grillage		57
	Cu. Yds.	Stone Fill		60
	Cu. Yds.	Plain Rip Rap		61
75	Cu. Yds.	Rip Rap for Bank Protection (Est)		62
1175	Lin. Ft.	3 Std [redacted] Underdrain With 6" P.C.G.M.P. Bit. Coated		65 B
216	Lin. Ft.	Wood Guard Rail		66
1480	Lin. Ft.	Cable Guard Rail With Wood Posts		67 A
20	Each	Guide Posts of Wood		68 A
	Cu. Yds.	Plain Rubble Paving		70A
	Cu. Yds.	Grouted Rubble Paving		70B
1	Each	State or Federal Aid Markers		69
	Sq. Yds.	Plain Cement Concrete Gutter		73
	Sq. Yds.	Plain Cobble Gutter		74A
500	Sq. Yds.	Grouted Cobble Gutter		74B
	Each	Leaching Basins		75
11	Each	Catch Basins of Brick		76 A
	Each	Changing Elevations of Manholes and Catch Basins		77
13	Each	Drop Inlet Grates		78

DETAILED SUMMARY OF QUANTITIES

Contract Total

Solid Rock Excavation

500	cy	Roadway (Est)
167	"	Culvert x Factor
333	"	Overrun
1000	"	Total

Common Excav Incl Borrow

13821	cy	Roadway as per plans
3321	"	Borrow
2635	"	Culverts x Factor
1360	"	Underdrain x Factor
261	"	Retaining Walls
5602	"	Overrun
27000	"	Total

Sub-base of Gravel

25881	cy	Roadway as per plans
1000	"	Driveways + Culverts
261	"	Ret Wall Backfill
2858	"	Overrun
30,000	"	Total

Concrete Class A

42.1	cy	Pipe Culverts
8.1	"	Box Culverts (Repairs)
97.3	"	Wall at Plainfield
27.3	"	Curb + Gutter + Overrun
175.0		Total

Reinforcing Steel

3620	lbs.	Pipe Culverts
600	"	Boxes
1300	"	Wall at Plainfield
1980	"	Curb, Gutter + Overrun
7500		Total

Cement Rubble Masonry

14.0	cy	Culvert Headwalls
293.5	"	Retaining Wall
42.5	"	Overrun
350.0		Total

Grouted Cobble Gutter

22.9	sq/yds	As per plans
27.1		Overrun
500		Total

STATE OF VERMONT **DEPARTMENT OF HIGHWAYS**

F. A. P. NO.

Form Eng. 3A Summary Sheet No. 192

Type of Road CRUSHED STONE PENETRATION SURFACE COURSE WITH ASPHALT EMULSION BINDER

STATIONS FROM	STATIONS TO		EQUATIONS +	EQUATIONS −
		Government Participation		
		Common Excavation Incl Borrow		
13709 cy		Roadway as per Section		
2495 "		Borrow		
2635 "		Culvert x Factor		
1360 "		Underdrain x Factor		
261 "		Retaining Walls		
5040 "		Overrun		
25500 "		Total		
		Sub base of Gravel		
25384 cy		Roadway as per plans		
1000 "		Driveway + Culverts		
261 "		Ret Wall Backfill		
2755 "		Overrun		
29400 cy		Total		
		Broken Stone Base Course		
2898 cy				
		Broken Stone Surface Course		
2416 cy				
		Asphalt Emulsion		
90522 gal.				
		Non-Govt. Participation		
		Common Excavation Incl Borrow		
112 cy		Roadway as per sections		
826 "		Borrow		
562 "		Overrun		
1500 cy				
		Sub-base of Gravel		
497 cy		Roadway as per plans		
103 "		Overrun		
600 cy				
		Broken-Stone Base Course		
151 cy				
		Broken Stone Surface Course		
126 cy				
		Asphalt Emulsion		
4706	gals			