FED. ROAD DIST. NO.	STATE	F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	116 (6)		1	

INDEX OF SHEETS

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL PROJECT

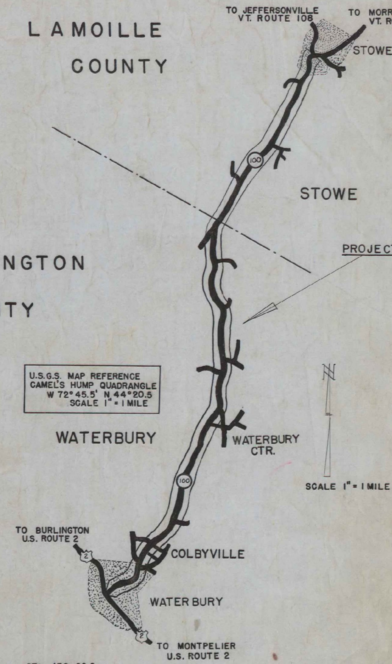
TOWNS OF WATERBURY-STOWE
COUNTIES OF WASHINGTON-LAMOILLE
VERMONT ROUTE 100
WATERBURY-NEWPORT ROAD

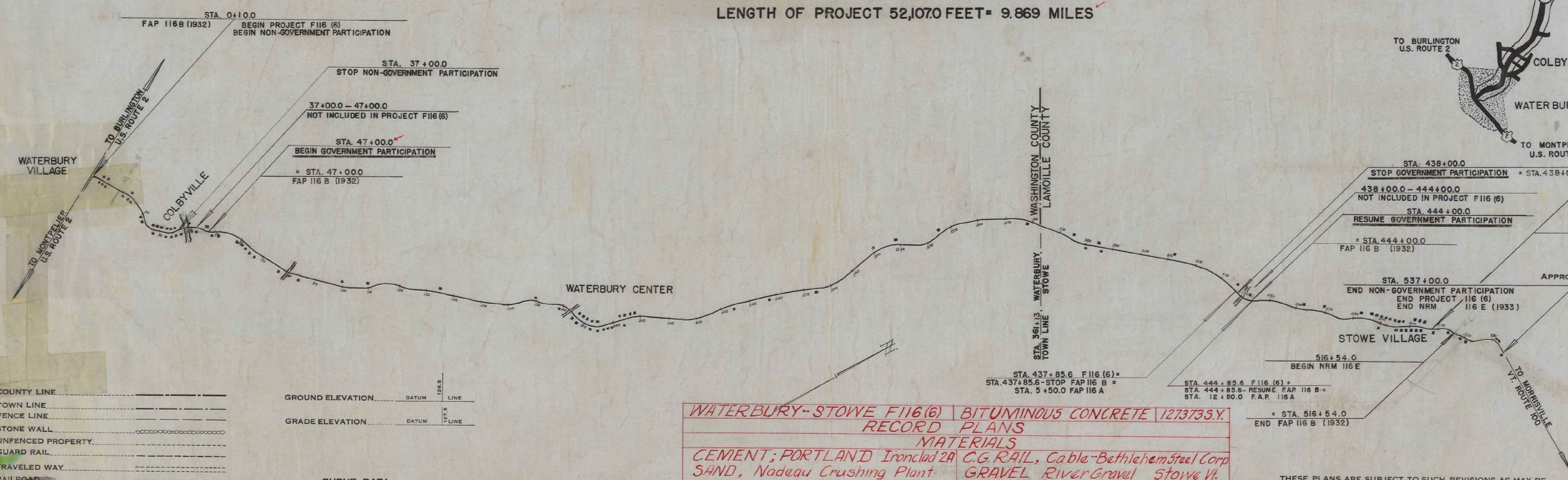
BEGINNING AT A POINT 10 FEET EASTERLY OF THE INTERSECTION OF U.S. ROUTE 2 AND VERMONT ROUTE 100 AND EXTENDING NORTHEASTERLY 52,107.0 FEET.

NON-GOVERNMENT PARTICIPATION 6,587.9 FEET= 1.248 MILES
GOVERNMENT PARTICIPATION 45,519.1 FEET= 8.621 MILES
LENGTH OF PROJECT 52,107.0 FEET= 9.869 MILES

STANDARD STRUCTURE SHEETS APPROVED BY THE CHIEF ENGINEER, VERMONT STATE DEPARTMENT OF HIGHWAYS

S-40	FEB. 28, 1949
S-46-45	FEB. 28, 1949
S-47-45	FEB. 28, 1949
S-48-46	MAY 13, 1946





APPROVED: 25 July 49
H E Sargent
CHIEF ENGINEER

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

COUNTY LINE	
TOWN LINE	
FENCE LINE	
STONE WALL	
UNFENCED PROPERTY	
GUARD RAIL	
TRAVELED WAY	
RAILROAD	
RETAINING WALL	
CENTER LINE	
SURVEY LINE	
CULVERT	
DROP INLET	
TROLLEY POLE	
POWER POLE	
TELEPHONE POLE	
TREES	
HEDGE	

GROUND ELEVATION .... DATUM .... LINE

GRADE ELEVATION .... DATUM .... LINE

CURVE DATA

DEFLECTION ANGLE	△
DEGREE OF CURVE	D.
RADIUS OF CURVE	R.
TANGENT DISTANCE	T.
LENGTH OF CURVE	L.
EXTERNAL DISTANCE	E.
POINT OF INTERSECTION	P. I.
POINT OF CURVE	P. C.
POINT OF TANGENT	P. T.
POINT ON TANGENT	P. O. T.

SCALES

TITLE	1" = 2,000'
TYPICAL	1" = 2'
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
PROFILE VERTICAL	1" = 10'
CROSS SECTIONS	1" = 5'

WATERBURY-STOWE F116 (6)	BITUMINOUS CONCRETE 127373 S.Y.
RECORD PLANS	
MATERIALS	
CEMENT; PORTLAND Ironclad 2A SAND, Nadeau Crushing Plant STONE, " " Johnson Vt. TAR, Barrett Tar Co. - Malden, Mass. ASPHALT, Shell Oil Co. - Burlington Vt. R.C.P. - Rutland Conc. Pipe Co., Rutland Vt. A.C.C.G.M.P., Berger Metal Pipe, Westminster	C.G. RAIL, Cable - Bethlehem Steel Corp. GRAVEL River Gravel Stowe Vt. Stewart Pit Moretown Vt.
CONTRACTOR, VT. FORCE ACCOUNT RES. ENG'R; R. J. BULEY RECORD PLANS BY R.J.B. & R.J.W. 2/51	CONTRACT DATED Aug 26 1949 CONTRACT STARTED Aug 30 1949 " COMPLETED Nov. 30 1950 " ACCEPTED Nov. 30 1950

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1948. AS APPROVED JULY 25, 1949 BY THE BUREAU OF PUBLIC ROADS, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

RECOMMENDED FOR APPROVAL

[redacted]
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED

[redacted]
DIVISION ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

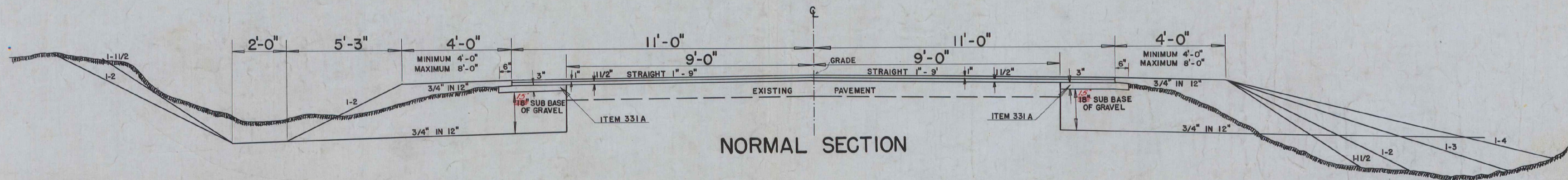
APPROVED 23 JUNE 1949	APPROVED June 23, 1949	SERIES F NO. 116 (6) FILED
H. W. Marsett HIGHWAY ENGINEER	R F Taylor DISTRICT HIGHWAY COMMISSIONER	SHEET 1 OF

FED. ROAD DIST. NO.	STATE	F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	116(6)		2	

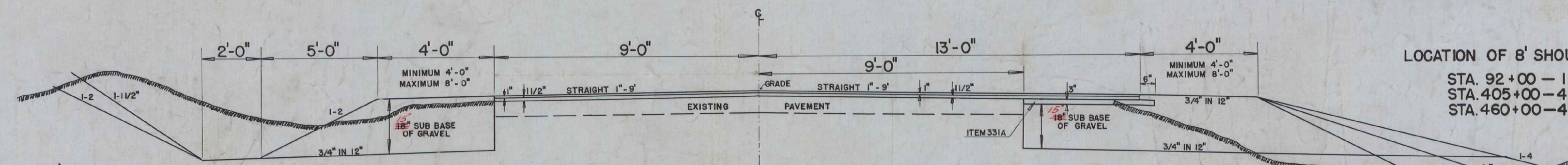
TYPICAL SECTIONS

18" & 24" SUB-BASE OF GRAVEL, ITEM 201-A

(3") PREMIXED BITUMINOUS GRAVEL SHOULDER COURSE WITH REFINED TAR, ITEM 331-A



NORMAL SECTION



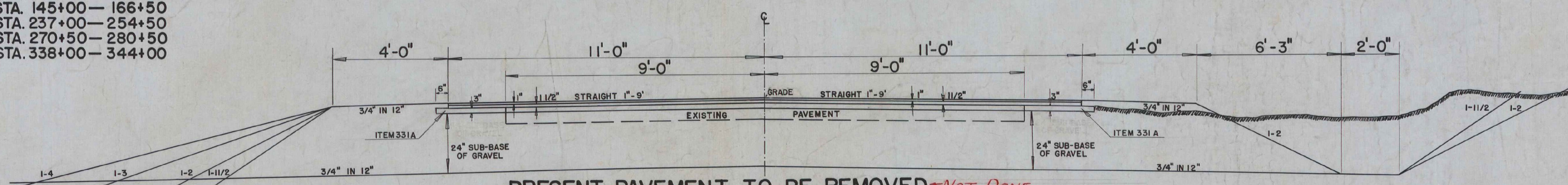
LOCATION OF 8' SHOULDERS RT.

STA. 92+00 — 111+00
STA. 405+00 — 415+50
STA. 460+00 — 488+50

LOCATION OF 8' SHOULDERS LT.

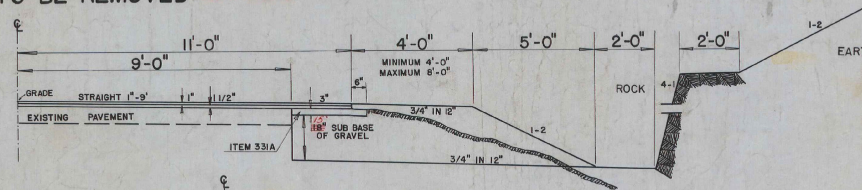
STA. 94+50 — 98+00
STA. 145+00 — 166+50
STA. 237+00 — 254+50
STA. 270+50 — 280+50
STA. 338+00 — 344+00

WIDENING ON ONE SIDE ONLY (RT. OR LT.)



PRESENT PAVEMENT TO BE REMOVED — NOT DONE

STA. 408+50 STA. 410+00

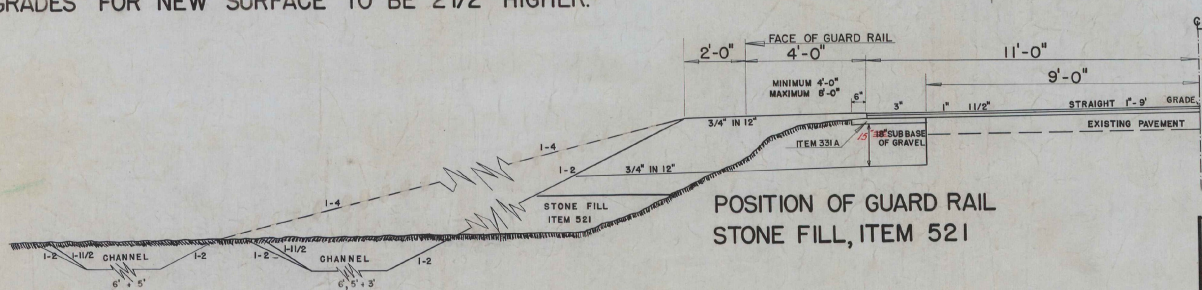


NORMAL SECTION IN SOLID ROCK EXCAVATION

GENERAL NOTES

ALL LIP CURB TO BE REMOVED.-

GRADIENTS ON PROFILE SHEETS, ARE EXISTING PAVEMENT GRADES FOR NEW SURFACE TO BE 2 1/2" HIGHER.-



POSITION OF GUARD RAIL
STONE FILL, ITEM 521

SCALE 1" = 2 FEET

WATERBURY-STOWE

Surveyed by
Designed by H. A. KENDALL 5-49
Drawn by N. L. STEVENS SR. 5-49
Traced by A. AJA
Checked by
Series F No. 116 (6) Filed
Sheet 2 of 109 Sheets

WATERBURY - STOWE F PROJECT NO. 116(6)

STATE OF VERMONT

SUMMARY SHEET NO. 3 OF 169 19

DEPARTMENT OF HIGHWAYS

APPROXIMATE SUMMARY OF QUANTITIES

QUANTITY BREAKDOWN NON-GOV'T.	QUANTITY BREAKDOWN GOV'T.	QUANTITIES	UNIT	ITEMS	ITEM NO.
2500	48000	50500	cy	Common Excavation	101-A
300	3100	3400	cy	Solid Rock Excavation	101-B
180	1500	1680	cy	Trench Excavation of Earth	103-A
30	300	330	cy	Trench Excavation of Rock	103-B
1200	3300	4500	cy	Channel Excavation	106
	350	350	cy	Structure Excavation (includes 55 cy overr.)	107
8	80	88	each	Cutting & Removing Trees (incl 7 each overr.)	110
2900	53000	55900	cy	Sub-base of Gravel	201-A
	400	400	cy	Gravel Backfill (includes 139 cy overrun)	222
7300	42000	49300	gal.	Refined Tar (includes 1500 gal overr. Gov't.) (includes 1000 gal. overrun Non.Gov't.)	321
350	2250	2600	cy	Premixed Bituminous Gravel Shoulder Course with Refined Tar	331-A
2600	15600	18200	ton	Bituminous Concrete Pavement	361-B
9	190	199	cy	Concrete Class 'B' (incl 2.9 cy overrun Non-Gov't)	401-B
700	16400	17100	lb	Reinforcing Steel (incl. 168 lb overrun Non-Gov't.)	402
9	56	65	cy	Cement Rubble Masonry (incl 6.8 cy overr. Gov't.) (includes 1.2 cy overrun Non.-Gov't.)	411
	200	200	lf	12" Reinforced Concrete Pipe (includes 44 lf overrun Gov't)	421-D
40	676	716	lf	15" Reinforced Concrete Pipe (includes 72 lf overrun Gov't.)	421-F
52	560	612	lf	18" Reinforced Concrete Pipe (includes 48 lf overrun Gov't.)	421-H
	128	128	lf	24" Reinforced Concrete Pipe (includes 12 lf overrun Gov't.)	421-K
	60	60	lf	30" Reinforced Concrete Pipe (includes 4 lf overrun Gov't.)	421-L
	20	20	lf	36" Reinforced Concrete Pipe (includes 4 lf overrun Gov't.)	421-M
	128	128	lf	48" Reinforced Concrete Pipe	421-O
58	68	126	lf	12" Asph. Ctd. Corr. Galv. Metal Pipe	425-D
4	240	244	lf	15" Asph. Ctd. Corr. Galv. Metal Pipe (includes 52 lf overrun Gov't.)	425-F
80	10	90	lf	18" Asph. Ctd. Corr. Galv. Metal Pipe (includes 24 lf overrun Non-Gov't.)	425-H
	60	60	lf	24" Asph. Ctd. Corr. Galv. Metal Pipe	425-K
	122	122	lf	72" Asph. Ctd. Corr. Galv. Metal Pipe	425-S
100	1000	1100	lf	Relaying Pipe Culverts (incl 114 lf overr. Gov't) (includes 22 lf overrun Non-Gov't.)	428
	200	200	cy	Stone Fill (includes 147 cy overrun Gov't)	521
70	1000	1070	lf	Perf. Asph. Ctd. Corr. Galv. Metal Underdrain (includes 106 lf overrun Gov't.)	531-A
27	24	51	each	Changing Elevations of Catch Basins or Manholes	537
	1	1	each	Drop Inlet Grates	538
1824	5544	7368	lf	Three Cable Guard Rail with Steel Posts	543
8	32	40	each	Anchors for Three Cable Guard Rail with Steel Posts	546
22	308	330	each	Wood Guide Posts (incl. 11 each overr. Gov't.) (includes 2 each overrun Non-Gov't.)	548
	2	2	each	Erection of Project Markers	566
20	100	120	each	Boundary Markers (Estimated)	567
2900	19000	21900	lf	Preparing Transverse Joints of Existing Pavement	595
14100	92500	106600	sy	Preparing Existing Pavement for New Wearing Surface	596
4600	62000	66600	sy	Mulch (Estimated)	622
	1500	1500	l.f.	Removal of Lip Curb (est.)	
	50	50	sy	Seeding	611
	1000	1000	sy	Sodding	612
	1000	1000	cy	Topsoil	621

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		GOV'T. PARTICIPATION
		COMMON EXCAVATION
48000	cy	As per sections (includes 3329 cy overrun
48000	cy	Total
		SOLID ROCK EXCAVATION
3100	cy	As per sections (includes 307 cy overrun)
3100	cy	Total
		TRENCH EXCAVATION OF EARTH
1410	cy	Pipe Culverts (includes 311 cy overrun)
85	cy	Box Culverts (includes 10 cy overrun)
5	cy	P.A.C.C.G.M. Underdrain
1500	cy	Total
		TRENCH EXCAVATION OF ROCK
281	cy	Pipe Culverts (includes 44 cy overrun)
17	cy	Box Culverts (includes 4 cy overrun)
2	cy	P.A.C.C.G.M. Underdrain
300	cy	Total
		CHANNEL EXCAVATION
3288	cy	As per sections (includes 185 cy overrun)
12	cy	Box Culverts
3300	cy	Total
		SUB-BASE OF GRAVEL
52880	cy	As per sections (includes 4734 cy overrun)
200	cy	Drives
20	cy	72" A.C., C.G.M.P. 247+98 & 269+17
53000	cy	Total
		CONCRETE CLASS B
20	cy	Pipe Culverts (includes 4.2 cy overrun)
170	cy	Box Culverts (includes 11.1 cy overrun)
190	cy	Total
		REINFORCING STEEL
1500	lb	Pipe Culverts (includes 260 lb overrun)
14900	lb	Box Culverts (includes 1390 lb overrun)
16400	lb	Total
		NON-GOV'T. PARTICIPATION
		COMMON EXCAVATION
2500	cy	As per sections (includes 383 cy overrun)
2500	cy	Total
		SOLID ROCK EXCAVATION
300	cy	As per sections (includes 83 cy overrun)
300	cy	Total
		TRENCH EXCAVATION OF EARTH
160	cy	Pipe Culverts (includes 29 cy overrun)
20	cy	P.A.C.C.G.M. Underdrain
180	cy	Total
		TRENCH EXCAVATION OF ROCK
27	cy	Pipe Culverts (includes 8 cy overrun)
3	cy	P.A.C.C.G.M. Underdrain (Estimated)
30	cy	Total
		CHANNEL EXCAVATION
1200	cy	As per sections (includes 79 cy overrun)
1200	cy	Total
		SUB-BASE OF GRAVEL
2800	cy	As per sections (includes 163 cy overrun)
100	cy	Drives
2900	cy	Total

TYPE OF CONSTRUCTION Bituminous Concrete Pavement, Item 361-B

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS 22'	PAVEMENT WIDTHS 28'	PAVEMENT WIDTHS Variable	EQUATIONS +	EQUATIONS −	
	NON-	GOV'T.	PARTICIPATION				
0+10	7+60.0			750.0			
						0.9	
7+60.9	27+08.0			1947.1			
						2.5	
27+10.5	32+00.0			489.5			
32+00.0	37+00.0	500.0					
37+00.0	47+00.0					1000	Bridge Project (Not included)
NON GOV'T	Sub-Total	500.0		3186.6		1003.4	
	GOV'T.	PARTICIPATION					
47+00.0	51+24.2	424.2					
					7.6		
51+16.6	61+13.7	997.1					
						1.8	
61+15.5	61+88.0	72.5					
61+88.0	63+28.0			140.0			
63+28.0	78+15.0	1487.0					
					1.3		
78+13.7	83+25.4	511.7					
						3.7	
83+29.1	118+55.7	3526.6					
					10.1		
118+45.6	148+70.4	3024.8					
						0.7	
148+71.1	168+97.6	2026.5					
						3.2	
169+00.8	182+58.9	1358.1					
						2.5	
182+61.4	187+81.9	520.5					
						2.6	
187+84.5	228+12.7	4028.2					
					9.0		
228+03.7	243+10.7	1507.0					
					1.7		
243+09.0	303+55.4	6046.4					
						3.2	
303+58.6	321+48.8	1790.2					
						8.2	
321+57.0	370+41.7	4884.7					
					7.4		
370+34.3	437+85.8	6751.5					
					2.9		
437+82.9	438+00.0	17.1					
438+00.0	444+00.0					600.0	Bridge Project (Not included)
444+00.0	471+64.1	2764.1					
						3.0	
471+67.1	495+82.1	2415.0					
					8.0		
495+74.1	508+00.0	1225.9					End of GOV'T. PART.
GOV'T.	Totals	45379.1		140.0	48.0	628.9	
	NON-	GOV'T. PARTICIPATION					
508+00.0	519+79.1	1179.1					
					1.3		Tran. 2 @ 300'×6"
519+77.8	520+00.0	22.2					
520+00.0	537+00.0		1700.0				
NON GOV'T.	Sub-Total	1201.3	1700.0		1.3		
TOTALS							

LENGTH OF PROJECT

STATIONS		FEET	MILES	REMARKS
0+10.0	37+00.0	3686.6	0.698	Non. Gov't. Participation
47+00.0	438+00.0	39114.1	7.408	Gov't. Participation
444+00.0	508+00.0	6405.0	1.213	Gov't. Participation
508+00.0	537+00.0	2901.3	0.550	Non. Gov't. Participation
TOTALS		6587.9	1.248	NON. GOV'T. PARTICIPATION
		45519.1	8.621	GOV'T. PARTICIPATION
		52107.0	9.869	GOV'T. & NON. GOV'T. PARTICIPATION

WATERBURY - STOWE SERIES F NO. 116(6) FILED SHEET 3 OF 169 SHEETS

"IMPERIAL" TRACING CLOTH B.L.M. INC.

QUANTITY SHEET

PLANIMETERED SUB-BASE OF GRAVEL

LINEAR FEET

STA	STA	18" NON. GOV.	24"		Shaping Course	EQ +	EQ −
0+10	7+60.0				750		
7+60.0	7+60.9						0.9
7+60.9	8+50				89.1		
8+50	9+67		117				
[illegible]7	15+00	533					
15+00	25+75				1075		
25+75	26+75	100					
26+75	27+08.0				33		
27+08.0	27+10.5						2.5
27+10.5	37+00				989.5		
NON GOV SUB TOTAL							
		633	117		2936.6		3.4
		GOV.	PART.				
47+00	51+24.2	424.2					
51+24.2	51+16.6					7.6	
51+16.6	61+13.7	997.1					
61+13.7	61+15.5						1.8
61+15.5	68+00	684.5					
68+00	78+15.0				1015		
78+15.0	78+13.7					1.3	
78+13.7	83+25.4				511.7		
83+25.4	83+29.1						3.7
83+29.1	109+50				2620.9		
109+50	118+55.7	905.7					
118+55.7	118+45.6					10.1	
118+45.6	148+70.4	3024.8					
148+70.4	148+71.1						0.7
148+71.1	168+97.6	2026.5					
168+97.6	169+00.8						3.2
169+00.8	182+58.9	1358.1					
GOV'T. SUB	Totals	9420.9			4147.6	19.0	9.4

GUIDE POSTS

NON GOV'T

STA	LT	RT
21+11	1	1
29+35	1	1
29+81		1
31+46		1
508+72		1
511+40		1
516+52.5		1
517+81	1	1
521+06		1
	3	9
	12	
Cable Rail	8	
Total	20	

DRAINAGE STRUCTURES

STA	STA	POS	OLD CULV	TYPE IN	TYPE OUT	ACC&CMP D	ACC&CMP L	RCP D	RCP L	R C BOX S	R C BOX L	CONC B	REINF STEEL	CRM	D I GRATE	DEPTH D I	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Changing Elev of M.H.&C.B.	Askew Lt	Askew Rt		Struc. Excav.			REMARKS
5+13		Lt		CB&G													1			1							Raise CB 6"
5+50		Rt		CB&G													1			1							Raise CB 6"
5+64		Lt		CB&G													1			1							Raise CB 6"
6+59		Lt		CB&G													1			1							Raise CB 6"
6+73		Rt		CB&G													1			1							Raise CB 6"
8+27		Rt		CB&G													1			1							Raise CB 6"
11+73		Lt	10"VCP	DI&G													2	3									Remove
13+00		℄	15"RCP	DI&G	DI&G												2			2							Retain & Raise DI's 6"
14+12		℄	12"RCP	SH																	80°						Retain
14+92		℄	15"RCP	CB&G													1			1							Retain & Raise CB 6"
16+81		℄	15"RCP	DI&G				15"	20																		Ret & Ext 20' Lt
18+60		℄	18"RCP	DI&G													1			1		85°					Retain
18+60		Rt	18"RCP	SH																							Retain
21+11		℄	15"RCP	DI&G				15"	12								1			1							Ret & Ext 12' Lt - Raise DI 6"
21+11		Rt	15"RCP	DI&T																							Retain
25+55		℄	3x3.5CB	SH																							Retain
25+61	25+83	Rt	12"RCP	DI&G													1			1							Retain & Raise DI 6"
25+67	25+91	Rt	18"RCP																								Retain
25+72.5		Lt	15"RCP	DI&G													1			1							Raise DI&G 6"
25+91	28+25	Rt	18" Tile																								Retain
28+25	30+09	Rt	18"RCP		DI&G												1			1							Retain & Raise DI 6"
29+35		℄	12"RCP	DI&T																							Retain
29+81		Rt		DI&T													1			1							Raise DI 1'
30+28		℄	12"RCP	CB													2			2	49°30'						Retain & Raise CB & DI 6"
30+40		Rt	18"CIP	SH	SH									1.9			26	1	40								Relay
31+30		Rt	Relay P																10								Retain & Relay 10' Rt.
31+32	31+89	Rt	18"RCP	DI&T													1			1							Ret & Raise outlet DI 6"
31+46		℄	15"RCP	DI&G	DI&T												1			2	47°						Retain & Raise DI 6"
31+91	32+48	Rt	18"RCP	DI&T													1			1							Retain & Raise DI's 6"
31+99		℄	15"RCP	DI&T	DI&T												2			2	63°						Retain & Raise DI's 6"
32+48	33+00	Rt	15"CMP	SH				18"	52					1.5			23										DRIVE
32+95		Rt	18"CMP														9	1									Remove
34+31		Rt	M.H.																								Retain
34+80		Rt	Relay P.	SH	SH	12"	24							2.2			15		20								DRIVE
35+25		Rt	Relay P.	SH	SH	12"	24							2.2			15										DRIVE
36+90		Rt	Relay P.																								Retain
		SUB	-TOTALS	NON GOV		12"	48	15" 18"	32 52					7.8			112	5	70	23							
47+27		℄	15"RCP	DI&G				15"	16								1			1							Ret & Ext. 16' Rt - Raise DI 6"
48+67		℄	36"RCP	SH				36"	16									5				59°					Retain & Extend 16' Rt.
52+10		℄	15"RCP	SH				15"	16																		Retain & Extend 16' Rt.
55+44		℄	15"RCP	DI&T				15"	12								1	2		1	82°						Ret & Ext. 12' Rt - Raise DI 6"
57+52		℄	3'x3'CB	DI&T																							Retain
57+56	58+50	Rt	12"RCP	DI&G													1			1							Retain & Raise DI 18"
58+50	59+94	Rt	12"RCP	DI&G													1			1							Retain & Raise DI 12"
59+10		Lt	18"CMP	SH	SH			18"	28					3.8			9	1									Drive Culvert
59+60	60+10	Lt	12"CMP					12"	52								12										Remove & Replace
59+96	61+94	Rt	12"RCP	DI&G								2	149				2	2									Retain & Rebuild DI
61+96	62+40	Rt	12"RCP	DI&G													1			1							Retain & Raise DI 6"
62+50		℄	12"RCP	DI&G																	44°						Retain
64+02		℄	12"RCP	DI&G																		66°50'					Retain
64+18		Lt	12"RCP	DI&G																							Retain
68+44		℄	15"RCP	SH				15"	24								2	2									Retain & Extend 24' Rt
71+57		℄	18"RCP	SH				18"	16								2	2									Retain & Extend 16' Rt.
79+11.5		℄	6x3'RCB	WF	WF					6x3'	13	13.5	1545											16			Ret. & Ext. 5' Lt & 8' Rt.
79+65		Lt	15"RCP	SH	SH			15"	4					3.0			1	11	20								Remove, Relay & Ext. 4'
GOV. SUB-TOTALS								12"	52'																		
								15" 18" 36	72 44 16		Boxes Pipes	13.5 2	154.5 149	6.8			33	25	20	5				16			

CUTTING & REMOVING TREES ITEM 110

NON GOVERNMENT

STA.	RT.	LT.	STA.	RT.	LT.
30+00	1				
35+59	1				
+81	1				
525+92		1			
526+69		1			
527+18		1			
SUB TOTALS	3	3			
		6			
		2 Overrun			
		8			

3 STRAND CABLE GUARD RAIL With Steel Posts

NON. GOV'T.

STA	STA	LT	RT	Guide Posts	ANCH
14+22	23+50	928		2	2
23+64	25+72	208		2	2
512+26	517+70	544		2	2
520+76	522+20	144		2	2
	Totals	1824		8	8

WOOD GUARD RAIL

STA	STA	LT	RT

WATERBURY - STOWE
Series F No. 116(6)
Sheet 4 of 169

QUANTITY SHEET

PLANIMETERED SUB-BASE OF GRAVEL
LINEAR FEET

STA	STA	18" 9420.9	24"		Shaping Course ~~4147.6~~	EQ +	EQ − ~~9.4~~
182+58.9	182+61.4					19.0	2.5
182+61.4	187+81.9	520.5					
187+81.9	187+84.5						2.6
187+84.5	228+12.7	4028.2					
228+12.7	228+03.7					9.0	
228+03.7	243+10.7	1507.0					
243+10.7	243+09.0					1.7	
243+09.0	303+55.4	6046.4					
303+55.4	303+58.6						3.2
303+58.6	321+48.8	1790.2					
321+48.8	321+57.0						8.2
321+57.0	370+41.7	4884.7					
370+41.7	370+34.3					7.4	
370+34.3	408+50	3815.7					
408+50	410+00		150				
410+00	437+85.8	2785.8					
437+85.8	437+82.9					2.9	
437+82.9	438+00	17.1					
444+00	471+64.1	2764.1					
471+64.1	471+67.1						3.0
471+67.1	495+82.1	2415.0					
495+82.1	495+74.1					8.0	
495+74.1	508+00	1225.9					
END GOV.	PART.						
	SUB TOTAL	41221.5	150		4147.6	48.0	28.9
			NON GOVT.				
508+00	512+00	400					
512+00	515+00				300		
515+00	519+79.1	479.1					
519+79.1	519+77.8					1.3	
519+77.8	537+00	1722.2					
NON GOVT	SUBTOTAL	2601.3			300	1.3	
GOVT PART.		41221.5	150		4147.6	48.0	28.9
NON GOVT. PART.		3234.3	117		3236.6	1.3	3.4

GUIDE POSTS
GOVT.

STA	LT	RT
47+00	16⅔	12
48+76		
48+76	1	
52+10	1	
55+44	1	
57+52	1	
68+44	1	1
71+57	1	1
79+11.5	1	1
85+52.5	1	
87+25	16⅔	7
88+25		
90+60	1	1
95+47	1	1
99+89	1	1
102+50	16⅔	12
104+26		
105+85	1	1
110+60.5	1	1
113+50	1	
114+67	1	1
117+51	1	1
121+24	1	1
124+73	1	1
126+94	1	1
129+39	1	1
130+95	1	1
132+95	1	1
135+42	1	1
137+27	1	1
140+33	1	1
143+61	1	1
145+38	1	1
148+51	1	1
150+96	1	1
154+52	1	1
159+91	1	1
162+01	1	1
173+28	1	1
175+17		1
176+99		1
* 181+25		1
184+00	1	
186+24.5	1	1
201+58	1	1
203+86	1	1
207+50	12	16⅔
209+26		
210+50		1
216+02		1
223+30	1	
223+93	1	1
226+46	1	1
227+00	1	
233+21		1
235+63		1
238+50	1	1
239+90		1
245+08	4	4
247+98	1	1
252+82	1	1
259+17	1	1
269+17	1	1
271+77	1	1
276+43	1	1
	64	81
Total	145	

DRAINAGE STRUCTURES

STA	STA	POS	OLD CULV	TYPE IN	TYPE OUT	ACCGMP D	ACCGMP L	RCP D	RCP L	R C BOX S	R C BOX L	CONC B	REINF STEEL	CRM	D I GRATE	DEPTH D I	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Changing Elevation of CB & MH	Askew Lt	Askew Rt	Chan Excav	Struc Excav	REMARKS
85+52.5		¢	15"RCP					15"	16								4	2				67°45'			Ret & Ext 4'Lt & 12'Rt
90+60		¢	18"RCP	SH				18"	16								1	2							Ret & Ext 16 Rt
91+52	91+97	Rt	36"CMP																						Retain
95+47		¢	24"CMP			24	32										4	3							Ret & Ext 24'Rt 8'Lt to CB
95+49		Lt	1x1 S.B.																						Retain
99+89		¢	18"RCP					18"	32								2	2			85°				Ret & Ext 12'Lt & 20'Rt
105+85		¢	18"RCP					18"	20								7	2						28	Ret & Ext 8'Lt & 12'Rt
110+60.5		¢	6x4 RCB	WF	WF					6x4'	13.5	17.4	1861								58°				Ret & Ext 5'Lt & 8.5'Rt
111+05		Rt	12"CMP			12"	8												18						Remove Relay & Ext 8'
114+67		¢	18"RCP	DI & T				18"	20																Retain & Extend 20'Lt
117+51		¢	3x3 RCB	S.H.	WF					3x3'	15	13.0	928				7	3				81°30'	10		Retain & Extend 15'Lt
121+24		¢	30"RCP					30"	28								3	4							Ret & Ext 12'Rt & 16'Lt
124+73		¢	18"RCP	S.H.				18"	12								1	2							Retain & Extend 12'Lt
126+94		¢	15"RCP	S.H.				15"	16								21	1	44			85°			Remove Relay & Ext 16'
128+23.5		¢	10"VCP														21	1				78°			Remove
129+39		¢	18"RCP	SH				18"	16								8	4	16						Remove Relay & Ext 4'Lt 12'Rt
130+95		Rt	12"CMP	S.H.	S.H.									2.2			7	1	16						Remove & Relay-Drive
132+95		¢	18"RCP	SH				18"	8								1	2				64°			Retain & Extend 8'Lt
135+42		¢	15"RCP	SH																					Retain
137+27		¢	15"RCP					15"	4								2		8			86°			Remove Relay & Ext Rt
140+33		¢	15"RCP	SH				15"	4					1.5				4.3							Retain & Extend Rt
143+61		¢	18"RCP					18"	8								19	4.9	40						Remove, Relay & Extend 4'Rt 4'Lt
145+38		¢	18"RCP					18"	32									1.9				75°30'			Retain & Ext 16'Lt & 16'Rt
148+51		¢	18"RCP					18"	28								19	3.2	36						Remove, Relay & Extend 16'Lt & 12'Rt
150+96		¢	15"RCP					15"	28								6	1.5							Ret & Extend 12'Rt & 16'Lt
154+52		¢	15"RCP					15"	32								4	1.5							Ret & Ext 16'Rt & 16'Lt
159+91		¢	12"RCP	S.H.				12"	20								12	1.1	12						Remove Relay & Ext 20'Lt
162+01		¢	15"RCP	SH				15"	32								4	1.5	4			86°40'			Remove, Relay & Ext Lt
173+28		¢	15"RCP					15"	12								10	1	16		85°				Remove Relay & Ext 8'Lt & 4'Rt
175+17		¢	15"RCP	DI & T				15"	16								1	1.5				86°30'			Retain & Ext 16'Lt
176+99		¢	15"RCP	DI & T				15"	8								10		12		80°45'				Remove Relay & Ext Lt
179+41		Rt	12"CMP														4	1.3							Remove
181+05		Rt	12"CMP														5	1.3							Remove
181+35		¢	18"RCP	DI & T				18"	8								6		12		85°				Remove Relay & Ext Rt
182+35		Rt	12"CMP	DI & T													4	1.3							Remove
184+00		¢	15"RCP	DI & T				15"	12			2.8	250			5'	13	1.6	8						Remove Relay & Ext 8'Rt & 4'Lt
186+24.5		¢	18"RCP	DI & T																	83°15'				Retain
186+24.5		Rt	18"RCP	DI & T				18"	4										8	1	83°15'				Retain & Raise DI 3'
186+26	187+74	Rt	12"RCP																						Retain
187+75		¢	12"RCP	DI & G	DI & G												2			2					Retain & Raise DI's 1'
187+77	188+57	Lt	12"RCP																						Retain
188+55		¢	12"RCP	DI & G	DI & G												2			2					Retain & Raise DI's 6"
188+59	189+58	Lt	12"RCP	DI & G																					Retain
189+60	191+77	Lt	12"RCP	DI & G																					Retain
193+12		Rt	12"RCP	DI & G													1			1					Retain & Raise DI & G 6"
193+68		¢	12"RCP	DI & G	DI & G															1	48°				Raise DI 6"
193+68		Rt	10"CMP			12"	20																		DRIVE CULVERT
194+80		Rt		DI & G													1			1					Retain & Raise DI 6"
196+52		¢	12"RCP	DI & G	DI & G															2					Retain & Raise DI's 6"
201+58		¢	24"RCP	SH																					Retain
203+86		¢	15"RCP	DI & T													4		8						Remove & Relay 8'Lt
207+77		¢	15"RCP	DI & G				15"	8								4		8						Remove Relay & Ext Lt
210+50		¢	15"RCP					15"	16								8	5.8	4						Remove, Relay & Extend 8'Lt & 8'Rt
214+67		¢	12"CMP	S.H.	S.H.	15"	20							3.0			9								DRIVE CULVERT
216+02.5		¢	18"RCP	DI & T				18"	4			2.6	226			4'6"	6	2.4							Retain & Extend 4'Rt
223+93		¢	24"RCP					24"	20								12	2.9	12						Remove, Relay & Extend 12'Lt 8'Rt
225+20		Lt	12"CMP																						Retain
226+46		¢	36"RCP	SH	WF							2													Const New Wing Walls
226+90		Rt	12"CMP	SH	SH	12"	20										6								DRIVE CULVERT
SUB TOTALS						12" 15" 24"	48 20 32	12" 15" 18" 24" 30"	20 204 208 20 28		Boxes Pipes	30.4 7.4	2789 476	6.7			7 25.5	3 65	282	10			10	28	

CUTTING & REMOVING TREES ITEM 110
GOVERNMENT

STA	RT	LT	STA	RT	LT
47+42		1	+92	1	
+78		1	+94	1	
48+04		1	106	1	
+19		1	132+90		1
+50	1		154+89		1
+90	1		155+09		1
52+47	1		+45		1
69+65	1		158+19		1
+81	1		+22		1
76+29	1		+23		1
87+14		1	169+08	1	
+30		1	173+58		1
+37		1	+71		1
+94		1	175+38		1
93+80		1	204+29	1	
105+90	1		+50	1	
Sub Totals	7	9		6	10

3 STRAND CABLE GUARD RAIL WITH STEEL POSTS
GOVERNMENT

STA	STA	LT	RT	Guide Posts	ANCH
52+00	57+60		560	2	2
84+20	85+80		160	2	2
173+00	180+52	752		2	2
178+50	186+34		784	2	2
210+00	213+52	352		2	2
215+74	218+30	256		2	2
230+00	243+76	1376		2	2
278+20	279+80	160		2	2
448+26	450+50	200		2	2
466+46	467+58	112		2	2
476+00	477+76	176		2	2
476+25	477+53		128	2	2
483+72	485+32		160	2	2
483+74	484+54	80		2	2
488+50	490+26	176		2	2
499+60	500+72	112		2	2
Totals		3752	1792	32	32

~~WOOD~~ TREES ~~RAIL~~
GOVERNMENT

STA	STA	LT	RT
384+31		1	
+97			1
392+41			1
415+95		1	
473+67		1	
483+85		1	
486+50			1
487+00			1
490+22		1	
499+29		1	
Sub Totals		6	4
		9	7
		10	6
		2	13
		12	6
		39	36
Total		75	5 OVERRUN

CUTTING & REMOVING TREES (CONT'D)
GOVERNMENT

STA	RT	LT	STA	RT	LT
Brought Forward			263+83	2	
204+71	1		268+05		1
208+19	1		271+35		1
+73	1		298+71		1
209	1		+86		1
+36	1		299+02		1
+50	1		306+80	1	
225+56	1		307+15	1	
+96	1		307+50	1	
226+40	1		314+44		1
231+52	1		+46		1
+82	1		356+67		1
236	1		378+38		2
237	1	1	+60		
252		1	379+63	1	1
258+22			384+12		
Sub Totals	13	2		6	12

WATERBURY - STOWE
Series F No. 116 (6)
Sheet 5 of 169

QUANTITY SHEET

PLANIMETERED SUB-BASE OF GRAVEL

STA	STA					EQ +	EQ −

GUIDE POSTS
GOVERNMENT

STA	LT	RT
279+25 / 279+73	16'%c	4
288+19	1	1
290+91	1	1
299+55	1	1
302+14	1	2
307+38	1	
313+35	1	1
320+08	1	1
323+91	1	1
326+34	1	1
330+71	1	1
335+11.5	1	1
341+62.5	1	1
348+06	1	1
351+58	1	1
352+83		1
354+10		1
355+91	1	1
360+65	1	1
366+70	1	1
369+04	1	1
371+14.5	1	1
373+30		1
376+85	2	2
379+50	1	1
382+81.5	1	1
385+12.5	1	1
389+77	1	1
394+94	1	1
398+94	1	1
402+91	1	1
405+65	1	1
407+10	1	1
411+69	1	1
419+02.5	1	1
422+98	1	1
432+05	2	2
436+52.5	1	1
445+65	1	1
449+00		1
451+50 / 453+10	11	16'%c
458+75 / 459+71	16'%c	7
459+41	4	
461+75	1	1
467+10		1
467+80	1	
486+40 / 487+80	16'%c	5
489+70		1
495+15		1
497+65	1	1
499+73		1
503+14		1
506+47	1	
	56	64
	120	145
	265	
Cable Post	32	
Total	297	

DRAINAGE STRUCTURES

STA	STA	POS	OLD CULV	TYPE IN	TYPE OUT	ACCMP D	ACCMP L	RCP D	RCP L	R C BOX S	R C BOX L	CONC B	REINF STEEL	CRM	D I GRATE	DEPTH D I	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Changing Elev of CB & MH	Sub-base of Gravel	Chan. Exac.	Struc. Exac.	Askew Lt	Askew Rt	REMARKS
SUB-TOTAL		BROUGHT FORWARD																								
230+03.5		¢	18" RCP	DI&T													2	26								Remove DI Rt. Plug culvert
233+21		¢	24" RCP	SH.				24"	12								2	1.9	4							Remove, Relay & Ext. Lt.
235+63		¢	15" RCP					15"	4								4	2	12							Remove Relay 12' Lt. & Ext 4' Rt.
238+50		¢	18" RCP	DI&T				18"	4								2	1.9	4							Remove Relay & Ext Lt. 4'
239+90		¢	18" RCP	DI&T				18"	4								3		4							Remove Relay & Ext Lt. 4'
245+08		¢	24" RCP					24"	12								9	58	16							Remove Relay & Extend 12' Rt. Const. Inlet ditch
247+98		¢	15" RCP	SH	SH	72"	60							6.6							5		104			10' Gravel Floor-Cattle Pass
252+82		¢	15" RCP					15"	8								3	1.8							48°30'	Ret. & Ext. 8' Rt.
259+17		¢	3'x3' CB	WF	WF					3'x3'	27	16	1674					5								Ret. & Ext. 15' Lt. & 12' Rt.
269+17		¢	24" RCP	SH	SH	72"	62							6.6							5		135			10' Gravel Floor-Cattle Pass
271+77		¢	15" RCP	DI&T				15"	24								1									Ret. & Ext. 24' Lt.
276+43		¢	18" CMP in. 18" RCP out			18"	6	18"	20								3									Ext. 6' Rt. 20' Lt. Cons. Ditch
279+54.5		¢	5'x5' RCB	WF	WF					5x5	15	21	1492									3	12		85°	Ext. Box 5' Rt. & 10' Lt.
280+75		Lt.		SH	SH	12"	20																			DRIVE CULVERT
288+19		¢	15" RCP					15"	32								28	5	40							Remove, Relay & Ext. 16' Rt. & 16' Lt.
289+35		Lt.	15" CMP																							Retain
290+91		¢	18" RCP					18"	24								2								78°30'	Ext. 12' Rt. & 12' Lt. Cons. Ditch
291+00		Rt.	2-18" CMP	SH	SH									5.9			21	6	72							Remove & Relay 36" Rt.
298+94		¢	4" Tile																							To be Extended
299+55		¢	18" RCP	DI&T				18"	20			1.5	153			2	6	2	4					64°		Remove & Relay D.I. & Pipe Lt. Extend 12' Rt. Retain
302+14		¢	18" RCP	DI&T				18"	12								4	2						58°15'		Extend 12' Rt.
303+21	304+09	Lt.	10" CMP																							Retain
306+56	307+36	Lt.	12" CMP	DI&T								2.2	194			3.5	34	3	80							Remove & Relay 80' Lt.
307+00		Rt.	12" CMP														4									Remove
306+65	307+65	Rt.		DI&T		15"	100										45	4								Const. Ditch on Rt.
313+35		¢	18" RCP					18"	28								26	4	8							Remove, Relay & Ext Cons Ditch
320+08		¢	18" RCP					18"	20								33	4	48						80°	Remove, Relay & Ext Cons Ditch
323+91		¢	15" RCP					15"	16								4	3	8							DRIVE CULVERT
324+28		Rt.	12" CMP																							Retain
326+34		¢	18" RCP	DI&T				18"	12								1									Remove, Relay & Ext 12' Lt. Cons. In. Ditch
330+71		¢	18" RCP		SH			18"	8								1	2	4							Remove, Relay & Ext.
335+11.5		¢	15" RCP					15"	24								3		4							Remove, Relay & Const. In. Ext. Ditch
341+62.5		¢	18" RCP	SH																						Retain
345+45		¢	15" RCP														17	3							70°10'	Remove & Relay at Sta. 351+58 & 352+83
348+06		¢	15" RCP	DI&T				15"	20								3	2	4						61°	Remove Relay & Ext. Rt. Con. Out. Ditch
351+58		¢	15" RCP	DI&T													4	2	24							Remove & Relay 4' Rt. Extend 20' Rt. from 345+45 Relay
352+83		¢	15" RCP	Jct. Box								0.2	25				3		16							Build DI into Jct. Box. Ext. 16' Rt. with Relay from 345+45 Const. Out. Ditch.
355+91		¢	18" RCP	DI&T								0.3	50				1			1						Raise DI & T. 6"
360+65		¢	18" RCP					18"	16								40	4	40						69°	Remove, Relay & Ext. Cons. In. Ditch
366+70		¢	15" RCP					15"	8								2		4						66°15'	Remove & Relay 4' Rt. Ext. 8' Lt.
368+50		Lt.	12" CMP	SH	SH	15"	28'							30			4									DRIVE CULVERT
368+50		Rt.	24" RCP																							Retain
369+04		¢	15" RCP														8	1	24							Remove 20' Rt. & Lt. Relay 16' Rt. 8' Lt. Const. Inlet Ditch
371+14.5		¢	18" RCP	SH										0.5			1	1	4						78°45'	Remove & Relay 4' Rt.
372+82		Rt.	24" RCP																							Retain DRIVE CULVERT
373+06		¢	12" RCP														13	5								Remove Out. plugged
373+30		¢		DI&G				12"	64'			2.0	168		1	3.5	35	6							47°	DI & G. Lt.
376+85		¢	4x4 RCB	WF	WF					4x4	2	4.9	330				1							84°30'		Ext. 2' Lt. Raise HW Rt. Const. Wings at Outlet
379+50		¢						15"	56'								26	2								Const. Inlet ditch
379+77		Rt.	12" CMP														6									Remove DR. CULVERT
382+81.5		¢	15" RCP	SH				15"	12'								1							59°		Extend 12' Lt.
383+30	383+50	Lt	36" CMP														16	5								Remove
383+50	384+51	Lt.	3'x3' SB														50	40								Remove
383+22	384+50	Lt.		SH				48"	128'					10.1			176									Const. Out. Ditch
385+12.5		¢	15" RCP					15"	12'								4	2								Ext. 8' Lt. & 4' Rt. Cons. Out Ditch
385+77		Rt.	12" CMP														2									Remove
389+77		¢	30" RCP					30"	28'								9	2	4							Remove 4' Relay & Ext. 16' Lt. 12' Rt.
394+94		¢	18" RCP	SH				18"	12'								1		4							Remove Relay & Ext. Lt.
397+45		Rt.	14" CMP	SH	SH	15"	20										8									DRIVE CULVERT
SUB	TOTALS	CARRIED FORWARD				12" 15" 18" 72"	20 148 6 122	12" 15" 18" 24" 30" 48"	64 216 180 24 28 128		Boxes Pipas	4.19 6.2	3496 590	32.7	1	Boxes Pipas	1 671	5 126	432	1	10		251			

CABLE GUARD RAIL

STA	STA	LT	RT	ANCH

WOOD GUARD RAIL

STA	STA	LT	RT

WATERBURY-STOWE
Series F No. 116 (6)
Sheet 6 of 169

QUANTITY SHEET

PLANIMETERED SUB-BASE OF GRAVEL

STA	STA					EQ +	EQ −

GUIDE POSTS

STA	LT	RT

DRAINAGE STRUCTURES

STA	STA	POS	OLD CULV	TYPE IN	TYPE OUT	ACCGMP D	ACCGMP L	RCP D	RCP L	R C BOX S	R C BOX L	CONC B	REINF STEEL	CRM	D I GRATE	DEPTH D I	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Changing Elev. of CB & MH	Sub-base of Gravel	Struct Exac.	Chan. Exca.	Askew Lt.	Askew Rt.	REMARKS
398+94		¢	24"RCP	SH																				85°		Retain
402+91		¢	15"RCP					15"	16								22	6	44							Remove & Relay & Extend Construct In Ditch
405+65		¢	18"RCP					18"	16								10	2	12							Remove & Relay 12'Lt Ext 12'Lt & 4'Rt Construct In Ditch
407+10		¢	18"RCP	DI&T				18"	12								13	3	20							Remove & Relay 20'Lt Ext 12'Lt
411+69		¢	4x4 CB	WF	WF					4x4'	27.5	21.5	1974				43	3								Ext 20'Lt & 7.5'Rt Const In Ditch
419+02.5		¢	15"RCP					15"	24								4	3	4							Remove & Relay 4'Lt Ext 16'Lt & 8'Rt Const Inlet Ditch
422+98		¢	24"RCP	SH				24"	24								3	1	8							Remove & Relay 8'Lt Ext 24'Lt
432+05		¢	4x5 RCB	WF						4x5	5	7.5	526				4									Ret & Ext 5'Rt
436+52.5		¢	15"RCP					15"	16'								6	1	16							Rem. Relay 16'Rt & Ext.
																										8'Lt & 8'Rt Const In & Out Ditches
444+90		Rt		DI&G													1			1						Raise DI 1'
445+26		¢	15"RCP																						28°	Retain
445+65		Rt		Junc				15"	12'			0.2	25				4	1								Convert DI to Jct Box. Const In Ditch Const NP @ 90° from DI
449+00		¢	15"RCP	SH				15"	8'								1		4						60°10'	Remove & Relay 4'Lt Extend 8'Lt
458+37		Rt		SH	SH	15"	20							3.0			8									DRIVE CULVERT
459+41		¢	4x5 CB	WF	SH					4x5	7	9.0	654				12	1						73°15		Extend & Retain 7'Rt Const In Ditch
461+75		¢	15"RCP					15"	36'								12	1	12							Rem. & Replace 4'Rt Rem. & Relay 12'Lt Ext 12'Lt & 20'Rt Cons In Ditch
467+10		¢	24"RCP					24"	48'								3								76°15'	Ret & Ext 28'Lt & 20'Rt Construct Inlet Ditch
* 468+88		Lt	12"CMP																							Retain
474+45		Rt	12"CMP														8		24							Remove & Relay
476+47		¢	3x3 CB	WF	SH					3x3	14	8.1	860				8	1								Ext 14'Rt Ret Const In Ditch
484+12		¢	24"CMP			24"	28'										1									Extend 20'Lt & 8'Rt
489+70		¢	18"CMP	DI&T		18"	4'									5.5'	8	2							73°15'	Ret & Ext 4'Rt DI & T Rt
492+75		Rt	12"CMP														6									Remova
495+15		¢	12"RCP	DI&T	CB			12"	4							3'	7	1		1						Ret & Ext 4'Rt New DI & T Rt Raise CB Lt 6"
497+13	497+47	Rt	12"RCP	DI&G																1						Ret & Raise DI 6"
497+65		¢	15"RCP	DI&G													1			1				63°30'		Ret & Raise D.I. 1'
499+73		¢	18"RCP	Jct Box				18"	52								15							47°15'		Ret & Ext 32'Lt Convert DI Rt to Jct Box
499+80	501+24	Lt	12"RCP	DI&G																1						Retain & Raise DI 6"
501+60		¢	12"RCP	DI&G																					31°	Retain DI 501+92.5 Rt
501+89	503+12	Rt	12"RCP	Jct Box													1									Ret & Convert DI to Jct B. DI & T
503+14		Rt	12"RCP					12"	16'								1									Connect to Jct B & Ext Rt
505+00		Rt	12"RCP	DI&G																1						DI Covered Ret & Raise DI 6"
505+01	505+79	Rt	12"RCP														1									Retain
505+81	506+46	Rt	12"RCP														1									Retain
505+80		Rt		DI&G																1						Ret & Raise DI & 6"
506+47		¢	18"RCP	DI&G	Jct Box												2		8							Ret & Raise Jct Box 2' Relay 8'Lt
507+27		Rt		DI&G		End Gov't Participation											1			1						Ret & Raise DI 6"
508+72		Lt	12"CGMP	DI&G																1						Ret & Raise DI 6"
511+40		¢	15"RCP	DI&T				15"	4'			2.8	250			5		12								Ext 4'Rt Cons. DI & T Rt
516+52.5		¢	18"CMP	DI&T	Jct Box	18"	30'					3.3	282			6	5							78°45'		Const Jct Box Lt & Extend Pipe Down Slope
517+81		¢	18"CMP			18"	12'										2								84°	Ret & Ext 12'Lt
520+00		Rt	12"CMP														6									DRIVE CULVERT Remove
521+06		¢	15"RCP	SH				15"	4'								2		8							Relay 8'Lt Ext 4'Lt
522+00		¢	1.5x1.5 SB			18"	14'																			Retain & Extend 14'Lt
524+75		Lt	12"CGMP														1									Retain
530+48		¢		DI&G	DI&G												3	2		2						Ret & Raise DI's 6"
535+29		¢	3.5x4.5 SB	DI&G																1						Raise DI Lt Remove DI Rt
* 179+16		¢	9x8 RCP	WF	GOV'T							27.0	1666									16	2			Ret & Ext 7'Rt
* 467+80		Lt				12"	10'																			Ext Out of Underdrain
Sub Totals of This Sheet				Govt.		15" 18" 24"	20' 4' 28'	12" 15" 18" 24"	20 112 80 72		Boxes / Pipes	73.1 / 0.2	5680 / 25	3.0		Boxes / Pipes	67 / 140	5 / 21	152	8		16	2			
			Non	Govt.		12" 18"	10' 56'	15"	8'			6.1	532				19	14	8	4						
Totals For 4 Sheets Gov't.						12" 15" 18" 24" 72"	68 188 10 60 122	12" 15" 18" 24" 30" 36" 48"	156 604 512 116 56 16 128		Boxes / Pipes	1589 / 15.8	13510 / 1240	49.2	1	Boxes / Pipes	75 / 1099	13 / 237	886	24	10	295	12			
TOTALS FOR 4 SHEETS		NON GOV'T.				12" 18"	58' 56	15" 18"	40' 52'			6.1	532	7.8			131	19	78	27						

PERFORATED ASPHALT COATED CORRUGATED GALV. METAL UND.

STA	STA	POS	TYPE OUT	TRENCH EARTH	DIA	LENGTH	REMARKS
8+50	9+50	¢		19	6"	58	Ext. Und. Inl. Non Gov
21+11		Lt	HW	1	6"	12	Ext. Und. Out Non Gov
113+50		Lt	HW	1	6"	10	Ext. Und. Out Gov
173+20		Lt	HW	1	6"	10	Ext. Und. Out Gov
181+25		Rt			6"	8	Ext. Und. Out Gov
223+30		Lt	HW	1	6"	16	Ext. Und. Out Gov
227+00		Lt	HW	1	6"	12	Ext. Und. Out Gov
238+55		Lt	HW	1	6"	6	Ext. Und. Out Gov
302+14		Rt	HW	1	6"	12	Ext. Und. Out Gov
354+10		Rt	HW	1	6"	20	Ext. Und. Out Gov
	Totals	GOV		7		94	
	Totals	NON GOV		20		70	

CABLE GUARD RAIL

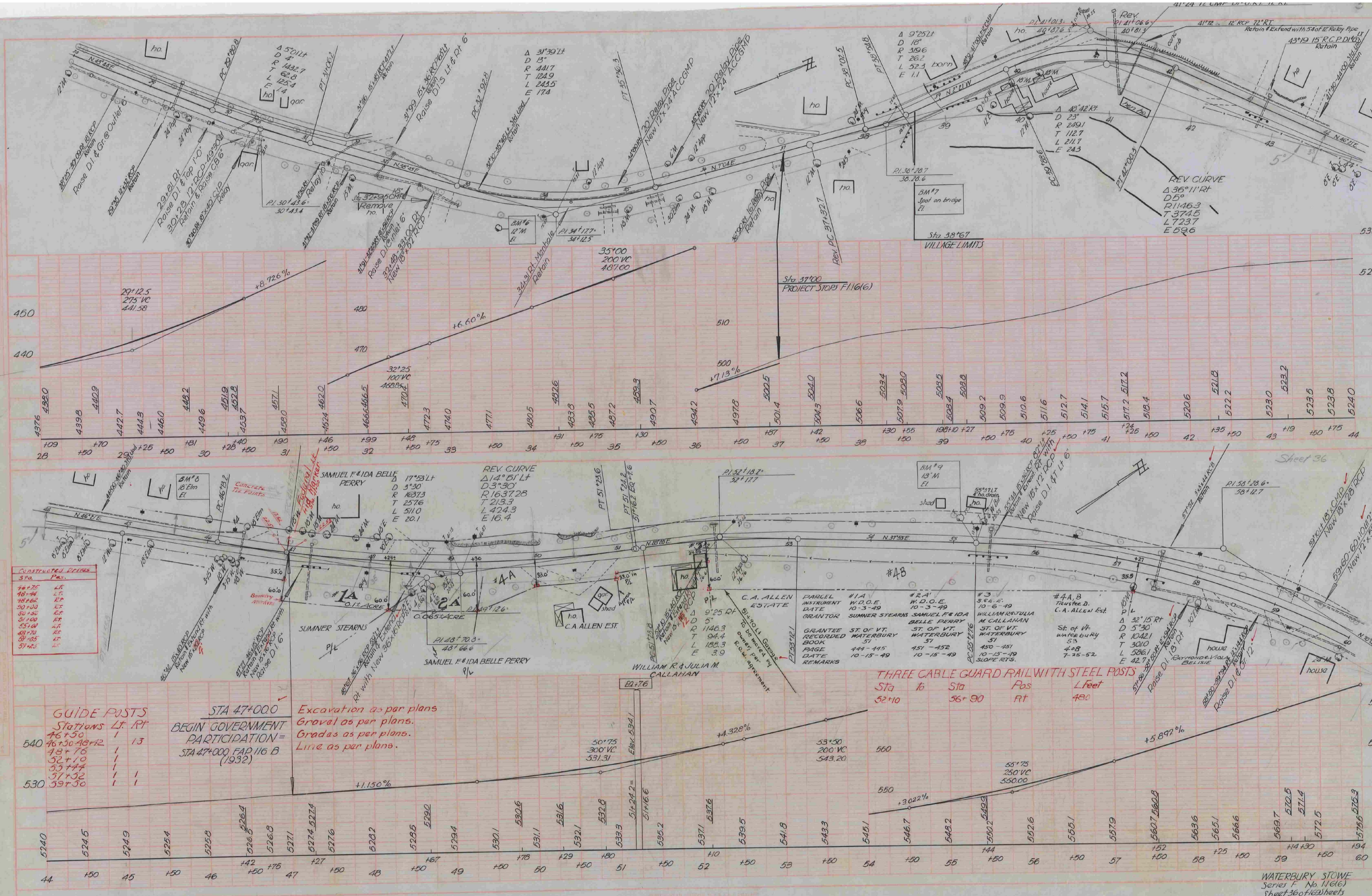
STA	STA	LT	RT	ANCH

WOOD GUARD RAIL

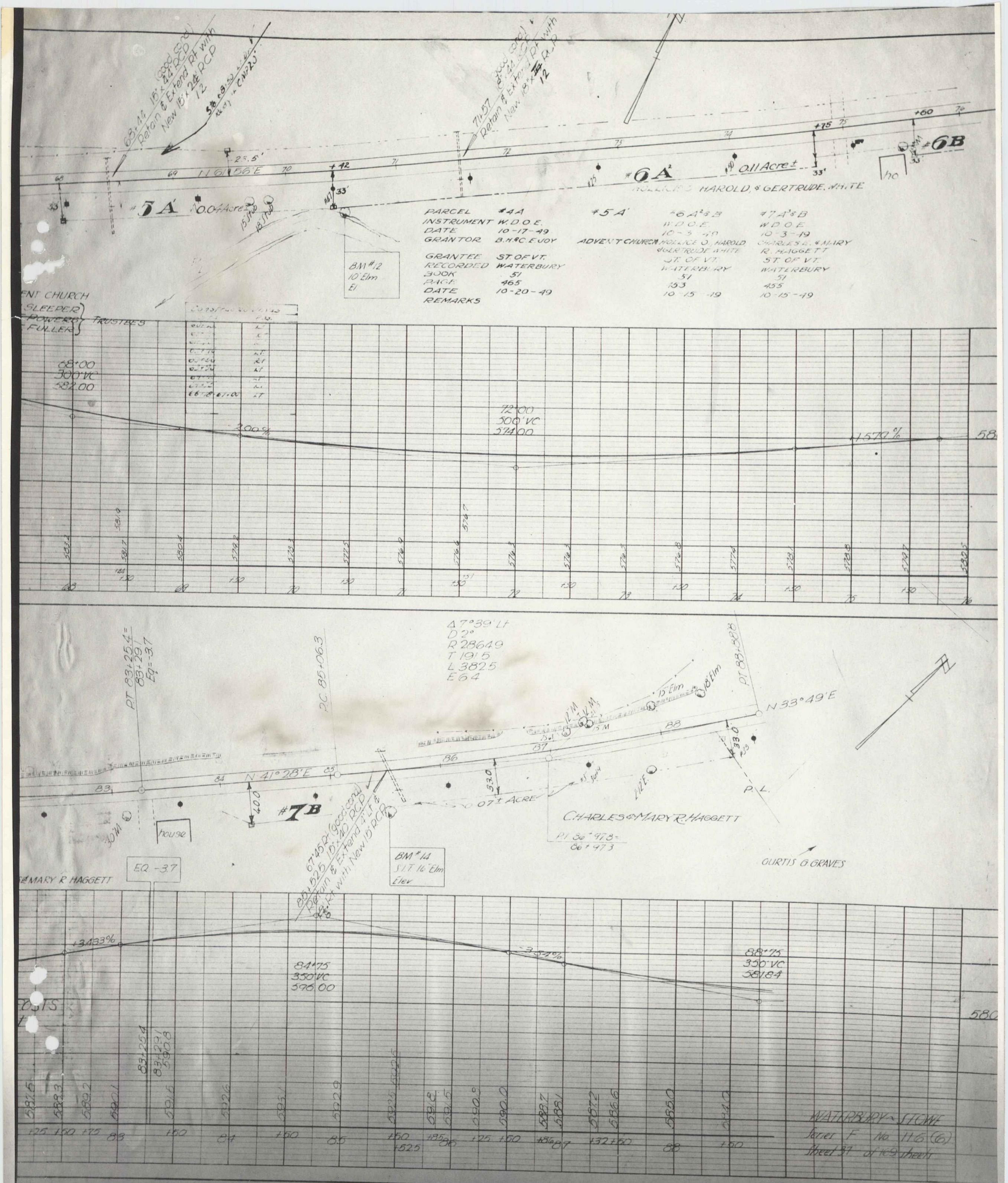
STA	STA	LT	RT

WATERBURY - STOWE
Series F No. 116 (6)
Sheet 7 of 169

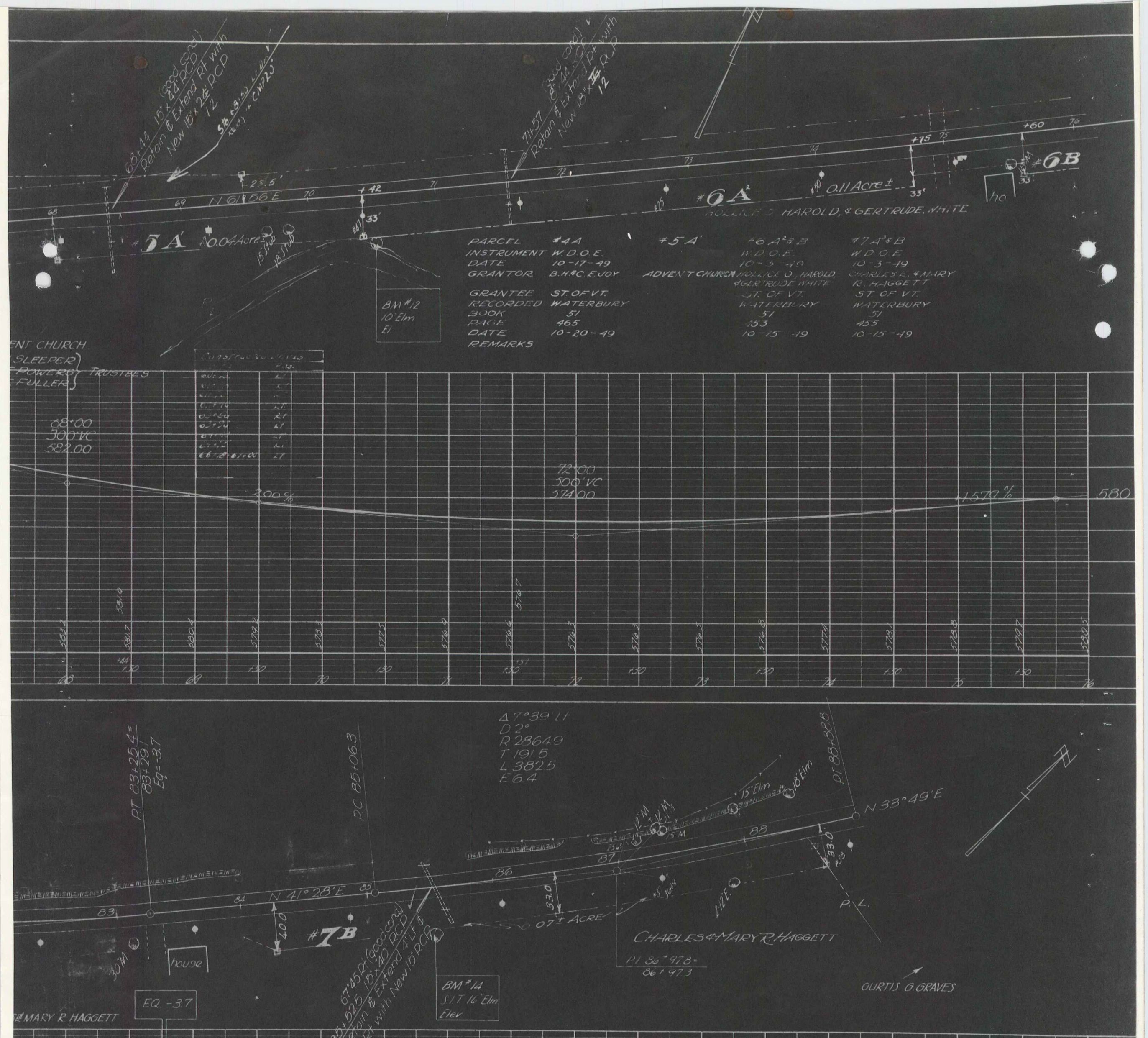

P.O.T. 0+00.0
Fill sta.
block
block
rest.
block
block
store
BM #2
Spot on wall
El. 443.63
P.C. 4+40.0
P.O.T. 4+00.0
Raise Catch Basin
Δ 2°08' Lt
D 0°40' L
R 8594.4
T 160.0
L 320.0
E 1.6
P.I. 6+00.0
6+00.0
STATE HIGHWAY BEGINS
PC 8+36.0
Raise CB 6"
Δ 11°47' Lt
D 6°
R 955.4
T 98.6
L 196.4
E 5.1
PT 10+32.4
Remove
P.I. 9+34.6
9+33.8
barn
BM #3
Spot on wall
El. 434.17
P.C. 11+83.4
Δ 39°42' Rt
D 13°
R 441.7
T 159.1
L 305.5
E 13.9
PT 14+88.9
P.I. 13+37.5
13+34.8
STA. 0+1.0
BEGIN PROJECT F 116(6) =
STA 0+10 FAP 116 B (1932)
Eq.-0.9
7+60.0
Rev. 7+60.9
+0.878%
-7.467%
-0.549%
Sewer M.H.
Stone Fill, Item 521
Channel Excavation
Item 106
P.I. 20+57.4
20+56.3
Retain
Δ 13°51' Rt
D 8°
R 716.8
T 87.1
L 173.1
E 5.3
BM #4
Spot on wall
El. 439.05
Δ 56°24' Lt
D 26°
R 220.4
T 118.2
L 216.9
E 29.7
EQ.-2.5
P.I. 26+04.3
25+84.8
27+08.0
27+10.5
+1.136%
-2.267%
+3.68%
17+00
100' VC
430.70
23+25
200' VC
437.80
26+25
300' VC
431.00
WATERBURY-STOWE
Series F No. 116(6)
Sheet 35 of 169 Sheets

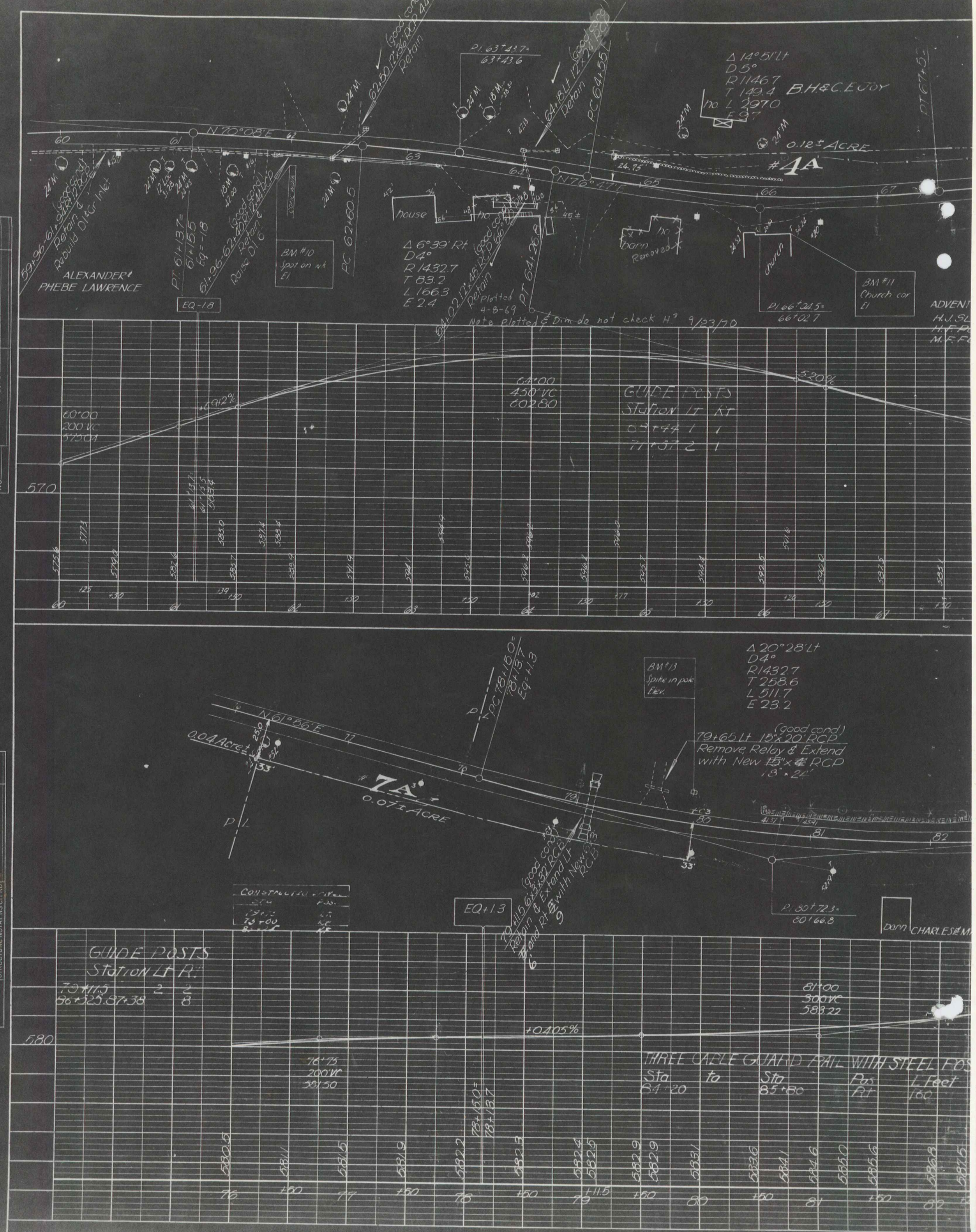


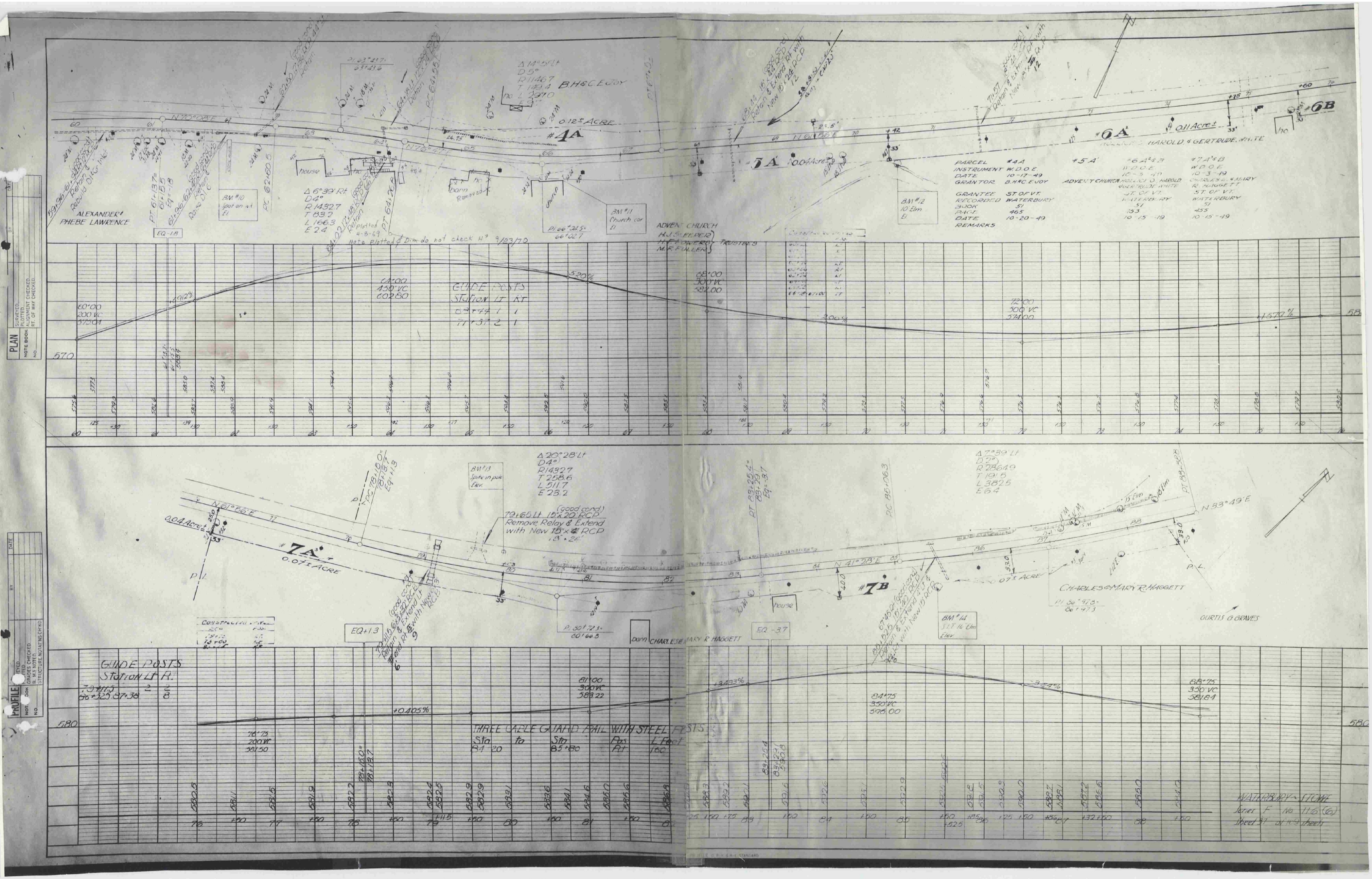
REV. CURVE
Δ 36°11' Rt
D 5°
R 1146.3
T 374.5
L 723.7
E 59.6
Sta. 38+67
VILLAGE LIMITS
Sta. 37+00
PROJECT STOPS F116(6)
BM #7
Spot on bridge
El.
BM #6
12"M
El.
29+12.5
275' VC
441.58
+8.726%
+6.60%
35+00
200' VC
487.00
32+25
100' VC
468.35
+7.13%
Sheet 36
BM #8
16" Elm
El.
BM #9
18"M
El.
Concrete Tie Points
SAMUEL F. & IDA BELLE PERRY
SUMNER STEARNS
C.A. ALLEN EST.
C.A. ALLEN ESTATE
WILLIAM R. & JULIA M. CALLAHAN
REV. CURVE
Δ 14°51' Lt
D 3°30'
R 1637.28
T 213.3
L 424.3
E 16.4
Constructed Drives
PARCEL | #1A | #2A' | #3 | #4A,B
INSTRUMENT | W.D.O.E. | W.D.O.E. | S.&E.E. | Trustee D.
DATE | 10-3-49 | 10-3-49 | 10-6-49 | C.A. Allen Est.
GRANTOR | SUMNER STEARNS | SAMUEL F. & IDA BELLE PERRY | WILLIAM R. & JULIA M. CALLAHAN |
GRANTEE | ST. OF VT. | ST. OF VT. | ST. OF VT. | St. of Vt.
RECORDED | WATERBURY | WATERBURY | WATERBURY | waterbury
BOOK | 51 | 51 | 51 | 53
PAGE | 444-445 | 451-452 | 450-451 | 408
DATE | 10-15-49 | 10-15-49 | 10-15-49 | 7-25-52
REMARKS | | | SLOPE RTS. |
P/L
Δ 32°15' Rt
D 5°30'
R 1042.1
T 301.0
L 586.1
E 42.7
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta | to | Sta | Pos | L Feet
52+10 | | 56+90 | Rt | 480
GUIDE POSTS
Stations | Lt. | Rt
46+50 | 1 |
46+50-48+42 | | 13
48+76 | 1 |
52+10 | 1 |
53+44 | 1 |
57+52 | 1 | 1
59+50 | 1 | 1
STA 47+00.0
BEGIN GOVERNMENT PARTICIPATION =
STA 47+000 FAP 116 B
(1932)
Excavation as per plans
Gravel as per plans.
Grades as per plans.
Line as per plans.
+1.150%
50+75
300' VC
531.31
+4.328%
53+50
200' VC
543.20
+3.022%
55+75
250' VC
550.00
+5.892%
WATERBURY STOWE
Series F No. 116(6)
Sheet 36 of 169 Sheets

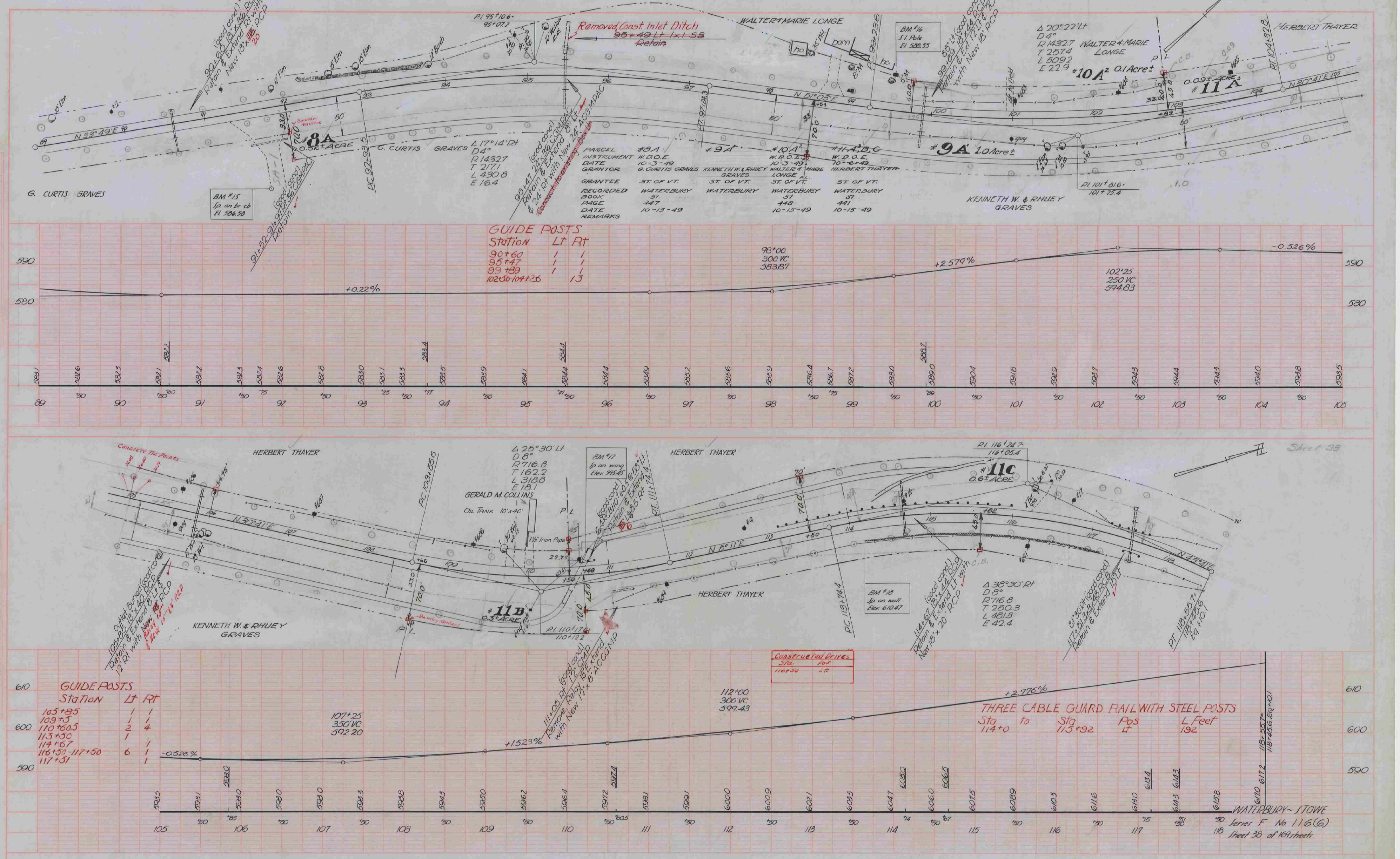


#5A
0.04 Acre±
#6A
0.11 Acre±
#6B
HOLLICE HAROLD, & GERTRUDE WHITE
N 41° 28' E
PARCEL #4A #5A #6A & B #7A & B
INSTRUMENT W.D.O.E. W.D.O.E. W.D.O.E.
DATE 10-17-49 10-5-49 10-3-49
GRANTOR B.H. & C.E. JOY ADVENT CHURCH HOLLICE O. HAROLD & GERTRUDE WHITE CHARLES & MARY R. HAGGETT
GRANTEE ST. OF VT. ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY WATERBURY
BOOK 51 51 51
PAGE 465 453 455
DATE 10-20-49 10-15-49 10-15-49
REMARKS
BM #12 10" Elm El.
ENT CHURCH
SLEEPER
POWERS
FULLER
TRUSTEES
68+00
300' VC
582.00
72+00
300' VC
574.00
+1.570%
Δ 7°39' Lt
D 2°
R 2864.9
T 191.6
L 382.5
E 6.4
PT 83+25.4±
83+29.1
Eq -3.7
PC 85+06.3
PT 88+88.8
N 33° 49' E
15" Elm
18" Elm
#7B
0.07± Acre
CHARLES & MARY R. HAGGETT
house
P.L.
CURTIS G. GRAVES
BM #14
S.I.T. 16" Elm
Elev
EQ -3.7
& MARY R. HAGGETT
+3.433%
-3.34%
84+75
350' VC
596.00
88+75
350' VC
581.84
580
WATERBURY - STOWE
Series F No. 116 (6)
Sheet 31 of 49 sheets

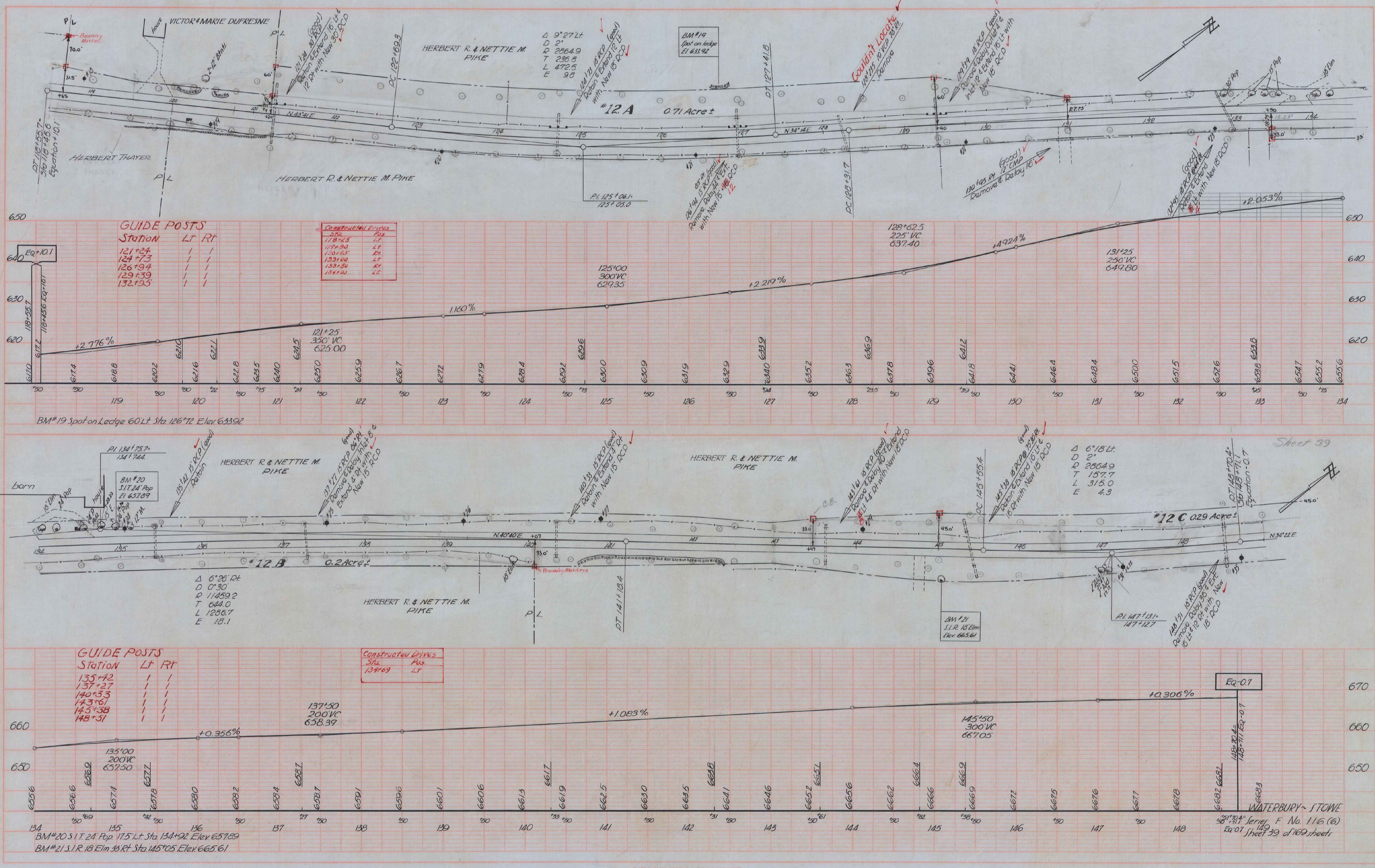

#5A
0.04 Acre±
#6A
0.11 Acre±
#6B
HOLLICE O. HAROLD, & GERTRUDE WHITE
N 61°56' E
BM #12
10" Elm
El
PARCEL #4A #5A #6A & B #7A & B
INSTRUMENT W.D.O.E. W.D.O.E. W.D.O.E.
DATE 10-17-49 10-3-49 10-3-49
GRANTOR B.H.&C.E.JOY ADVENT CHURCH HOLLICE O. HAROLD, & GERTRUDE WHITE CHARLES & MARY R. HAGGETT
GRANTEE ST OF VT. ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY WATERBURY
BOOK 51 51 51
PAGE 465 453 455
DATE 10-20-49 10-15-49 10-15-49
REMARKS
ADVENT CHURCH
SLEEPER
POWERS
FULLER
TRUSTEES
68+00
300' VC
582.00
72+00
300' VC
574.00
3.00%
+1.570%
580
Δ 7°39' Lt
D 2°
R 2864.9
T 191.6
L 382.5
E 6.4
PT 83+25.4=
83+29.1
Eq. -3.7
PC 85+06.3
PT 88+88.8
N 41°28' E
N 33°49' E
#7B
0.07± Acre
CHARLES & MARY R. HAGGETT
CURTIS G. GRAVES
house
EQ -3.7
BM #14
S.I.T. 16" Elm
Elev.
MARY R HAGGETT
+3.433%
-3.547%
84+75
350' VC
596.00
88+75
350' VC
581.84
580
WATERBURY - STOWE
Series F No. 11-6 (6)
Sheet 39 of 169 sheets

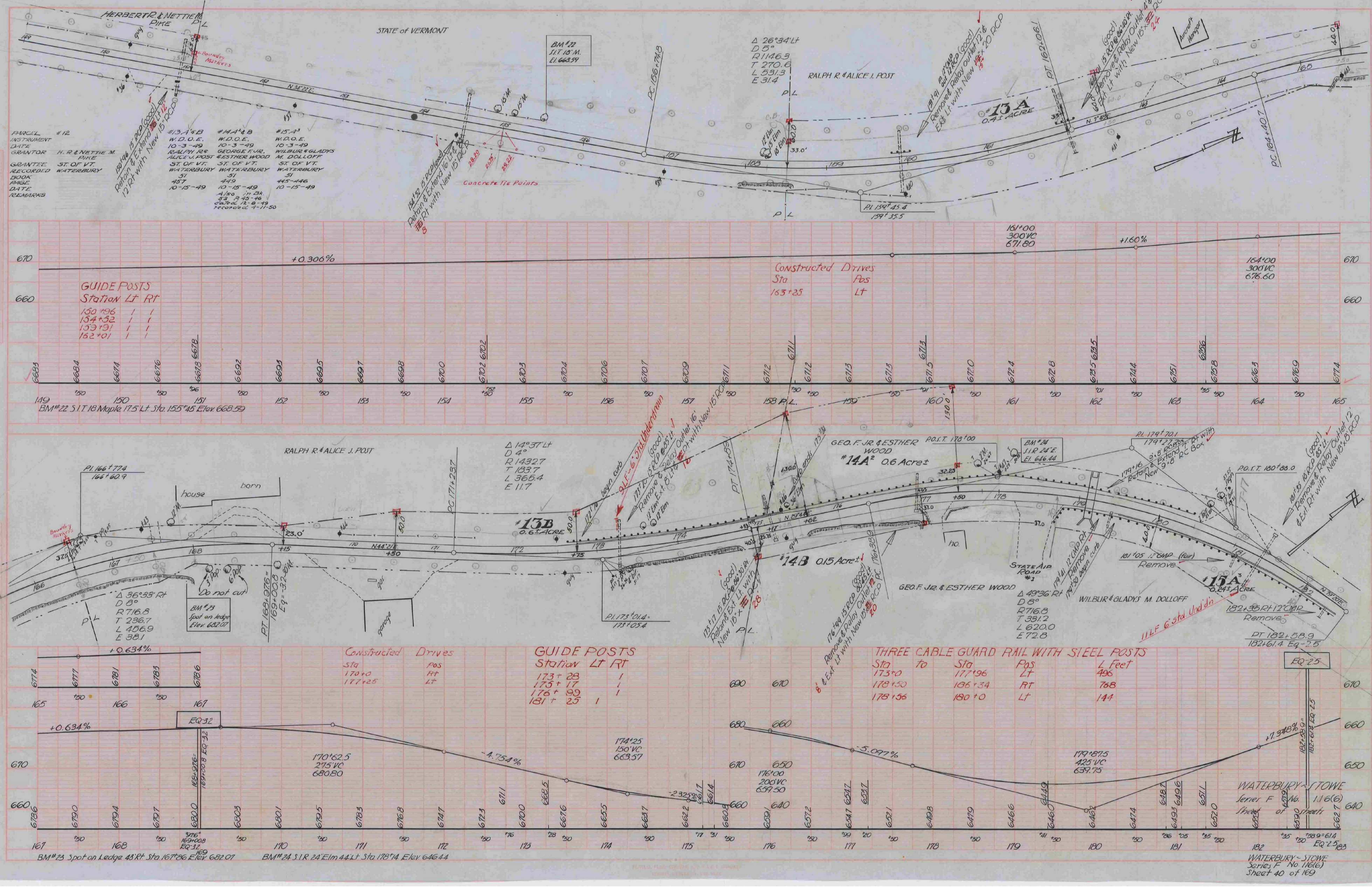

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE
N 70°08'E
Δ 14°51' Lt
D 5°
R 1146.7
T 149.4
L 297.0
E 9.7
B.H.&C.E.JOY
0.12± ACRE
#4A
P.I. 63+43.7=
63+43.6
ALEXANDER &
PHEBE LAWRENCE
house
barn
Removed
church
BM #10
Spot on Inl
El
BM #11
Church cor
El
Δ 6°39' Rt
D 4°
R 1432.7
T 83.2
L 166.3
E 2.4
PT 61+13.7=
61+15.5
Eq -1.8
EQ -1.8
PC 62+60.5
PT 64+26.8
PC 64+55.1
P.I. 66+24.5=
66+02.7
Plotted
4-8-69
Note Plotted & Dim do not check H° 9/23/70
ADVENT
60+00
200 VC
575.01
+0.12%
64+00
450 VC
602.80
-5.20%
GUIDE POSTS
Station Lt Rt
570
Δ 20°28' Lt
D 4°
R 1432.7
T 258.6
L 511.7
E 23.2
BM #13
Spike in pole
Elev.
N 61°06'E
0.04 Acre±
#7A
0.07± ACRE
PC 78+15.0=
78+13.7
Eq +1.3
EQ +1.3
79+65 Lt 15"x20" RCP (good cond)
Remove, Relay & Extend
with New 18" x 24" RCP
P.I. 80+72.3=
80+66.8
barn
CHARLES & M
PROFILE
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
GUIDE POSTS
Station Lt Rt
580
+0.405%
76+75
200 VC
581.50
81+00
300 VC
583.22
THREE CABLE GUARD RAIL WITH STEEL POS
Sta to Sta Pos L Feet
84+20 85+80 Rt 160
76
77
78
79
80
81


PLAN
PROFILE
#4A
0.12± ACRE
B.H. & C.E. JOY
ALEXANDER & PHEBE LAWRENCE
house
barn
church
ADVENT CHURCH
H.J. SLEEPER
M.F. FULLER
TRUSTEES
#5A
#6A
0.11 Acre±
HAROLD & GERTRUDE WHITE
#6B
PARCEL #4A #5A #6A & B #7A & B
INSTRUMENT W.D.O.E.
GRANTOR B.H. & C.E. JOY
GRANTEE ST. OF VT.
RECORDED WATERBURY
REMARKS
GUIDE POSTS
#7A
0.07± ACRE
#7B
Remove Relay & Extend with New 15"x 24" RCP
CHARLES & MARY R. HAGGETT
CURTIS O. GRAVES
N 33° 49' E
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
84+20 85+80 Rt 160
WATERBURY - STOWE

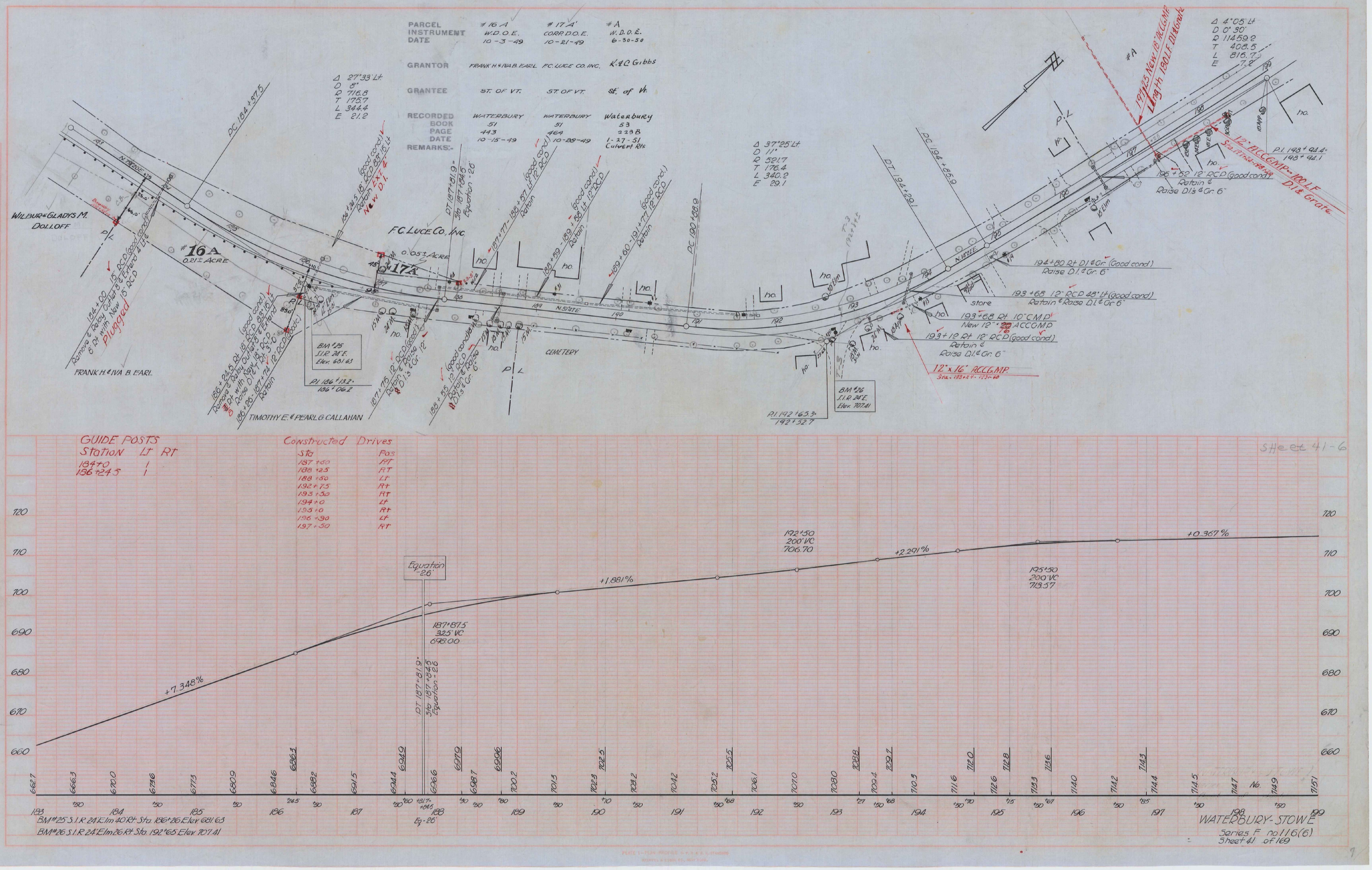


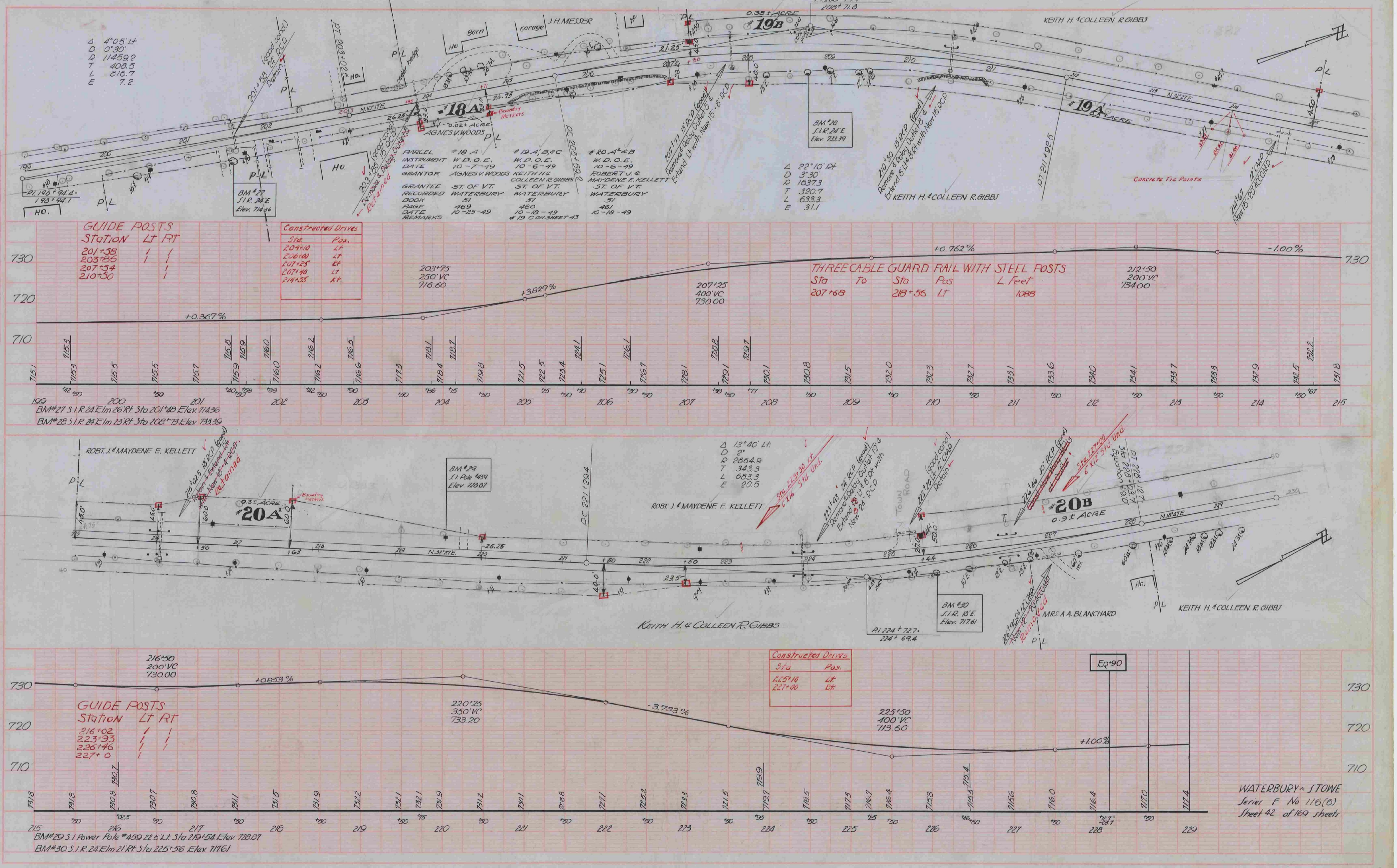
Removed Const. Inlet Ditch
95+49 Lt 1x1 SB
Retain
WALTER & MARIE LONGE
HERBERT THAYER
G. CURTIS GRAVES
KENNETH W. & RHUEY GRAVES
#8A 0.52± ACRE
#9A 1.0 Acre±
#10A 0.1 Acre±
#11A 0.09± ACRE
Δ 17°14' Rt
D 4°
R 1432.7
T 217.1
L 430.8
E 16.4
Δ 20°22' Lt
D 4°
R 1432.7
T 257.4
L 509.2
E 22.9
BM #15
Sp. on br cb
El 586.58
BM #16
S.I. Pole
El 588.55
PARCEL #8A #9A #10A #11-A, B, C
INSTRUMENT W.D.O.E. W.D.O.E. W.D.O.E.
DATE 10-3-49 10-3-49 10-6-49
GRANTOR G. CURTIS GRAVES KENNETH W. & RHUEY GRAVES WALTER & MARIE LONGE HERBERT THAYER
GRANTEE ST. OF VT. ST. OF VT. ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY WATERBURY WATERBURY
BOOK 51 51 51
PAGE 447 449 441
DATE 10-15-49 10-15-49 10-15-49
REMARKS
GUIDE POSTS
Station Lt Rt
90+60 1 1
95+47 1 1
99+89 1 1
102+50-104+26 13
98+00
300 VC
583.87
102+25
250 VC
594.83
+0.22%
+2.579%
-0.526%
HERBERT THAYER
GERALD M. COLLINS
Oil Tank 10'x40'
Δ 25°30' Lt
D 8°
R 716.8
T 162.2
L 318.8
E 18.1
BM #17
Sp. on wing
Elev. 595.45
#11C 0.6± ACRE
#11B 0.3± ACRE
Δ 38°30' Rt
D 8°
R 716.8
T 250.3
L 481.3
E 42.4
BM #18
Sp. on wall
Elev. 610.47
Constructed Drives
Sta. Pos.
116+50 Lt.
GUIDE POSTS
Station Lt Rt
105+85 1 1
109+5 1 1
110+60.5 2 4
113+50 1
114+67 1
116+50-117+50 6 1
117+31 1
107+25
350 VC
592.20
112+00
300 VC
599.43
-0.526%
+1.523%
+2.776%
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
114+0 115+92 Lt 192
WATERBURY-STOWE
Series F No. 116(6)
Sheet 38 of 164 sheets

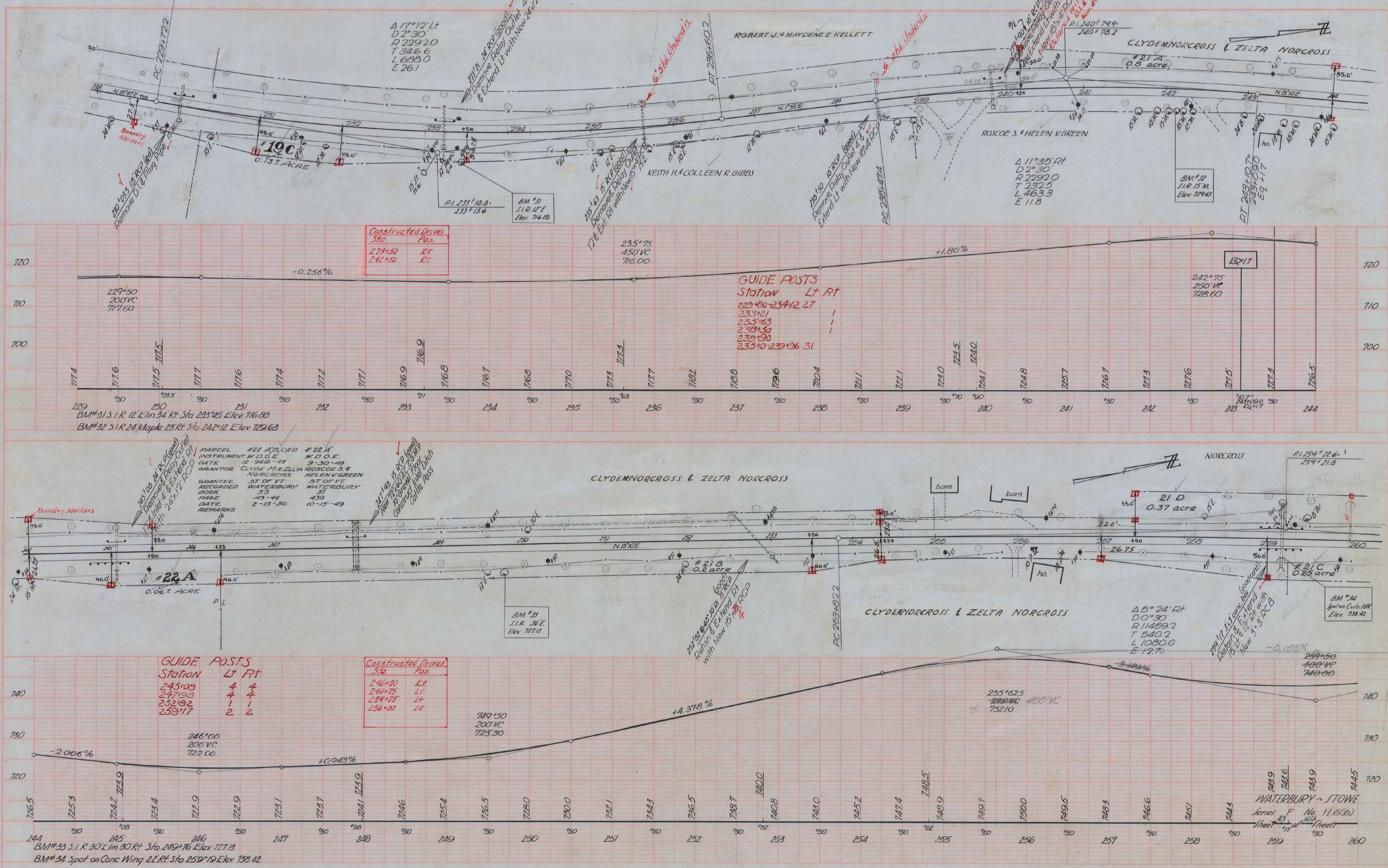

VICTOR & MARIE DUFRESNE
HERBERT R. & NETTIE M. PIKE
HERBERT THAYER
HERBERT R. & NETTIE M. PIKE
#12 A 0.71 Acre ±
Δ 9°27' Lt.
D 2°
R 2864.9
T 235.8
L 472.5
E 9.8
BM#19 Spot on ledge El 633.92
Couldn't Locate
P.I. 125+06.1-125+05.0
PC 122+69.3
DT 127+41.8
PC 128+31.7
N 45°41' E
N 34°14' E
GUIDE POSTS
Station Lt Rt
121+24 1 1
124+73 1 1
126+94 1 1
129+39 1 1
132+95 1 1
Constructed Drives
Eq+10.1
121+25 350' VC 625.00
125+00 300' VC 629.35
128+62.5 225' VC 637.40
131+25 250' VC 649.80
+2.776%
1.160%
+2.219%
+4.92%
+2.053%
BM#19 Spot on Ledge 60' Lt Sta. 126+72 Elev 633.92
Sheet 39
HERBERT R. & NETTIE M. PIKE
P.I. 134+75.7-134+74.4
BM#20 S.I.T. 24" Pop El 657.89
barn
Δ 6°18' Lt.
D 2°
R 2864.9
T 157.7
L 315.0
E 4.3
#12 C 0.29 Acre ±
#12 B 0.2 Acre ±
Δ 6°26' Rt.
D 0°30'
R 11459.2
T 644.0
L 1286.7
E 18.1
N 40°40' E
N 34°22' E
DT 141+18.4
PC 145+55.4
P.I. 147+13.1-147+12.7
BM#21 S.I.R. 18" Elm Elev. 665.61
Boundary Marker
GUIDE POSTS
Station Lt Rt
135+42 1 1
137+27 1 1
140+33 1 1
143+61 1 1
145+38 1 1
148+51 1 1
Constructed Drives
Sta. Pos.
134+69 Lt.
Eq-0.7
135+00 200' VC 657.50
137+50 200' VC 658.39
145+50 300' VC 667.05
+0.356%
+1.083%
+0.306%
WATERBURY - STOWE
Series F No. 116 (6)
Sheet 39 of 169 sheets
BM#20 S.I.T. 24" Pop. 17.5' Lt. Sta. 134+92 Elev 657.89
BM#21 S.I.R. 18" Elm 38' Rt. Sta. 145+05 Elev 665.61



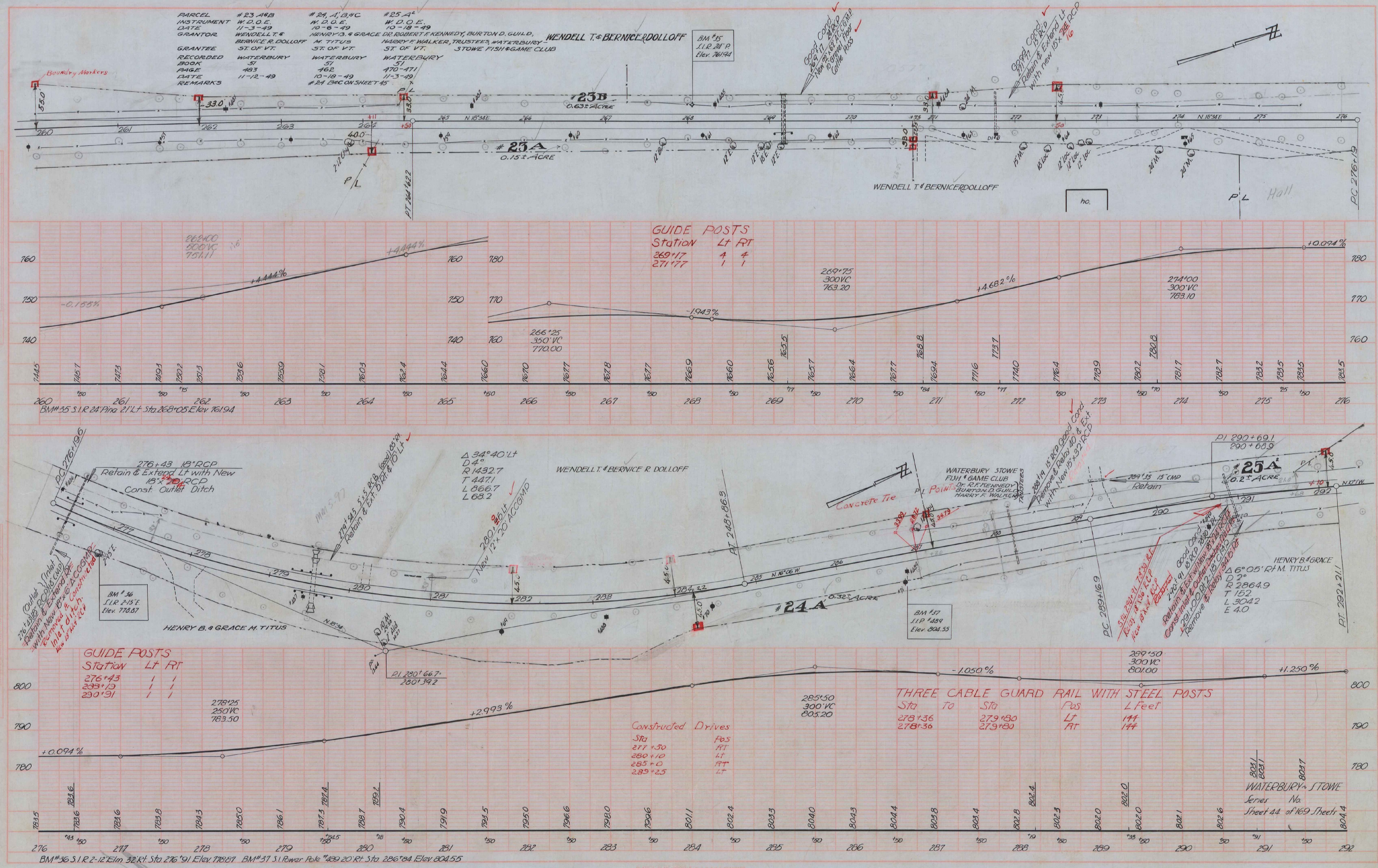
HERBERT R. & NETTIE M. PIKE
STATE of VERMONT
BM #22 S.I.T. 18"M. El. 668.59
Δ 26°34' Lt
D 5°
R 1146.3
T 270.6
L 531.3
E 31.4
RALPH R. & ALICE J. POST
#13A 0.4± ACRE
P.I. 159+45.4
159+35.5
Concrete Tie Points
PARCEL #12
INSTRUMENT
DATE
GRANTOR H.R. & NETTIE M. PIKE
GRANTEE ST. OF VT.
RECORDED WATERBURY
BOOK
PAGE
DATE
REMARKS
#13A & B W.D.O.E. 10-3-49 RALPH R. & ALICE J. POST ST. OF VT. WATERBURY 51 457 10-15-49
#14A & B W.D.O.E. 10-3-49 GEORGE F. JR. & ESTHER WOOD ST. OF VT. WATERBURY 51 449 10-15-49
#15A W.D.O.E. 10-3-49 WILBUR & GLADYS M. DOLLOFF ST. OF VT. WATERBURY 51 445-446 10-15-49
+0.306%
161+00 300 VC 671.80
+1.60%
164+00 300 VC 676.60
GUIDE POSTS
Station Lt Rt
150+36 1 1
154+32 1 1
159+91 1 1
162+01 1 1
Constructed Drives
Sta Pos
163+25 Lt
BM #22 S.I.T. 18 Maple 17.5 Lt Sta. 155+45 Elev. 668.59
RALPH R. & ALICE J. POST
P.I. 166+77.4
166+60.9
house
barn
Δ 14°37' Lt
D 4°
R 1432.7
T 183.7
L 365.4
E 11.7
#13B 0.6± ACRE
GEO. F. JR. & ESTHER WOOD
#14A 0.6 Acre±
#14B 0.15 Acre±
BM #24 S.I.R. 24" Elm El. 646.44
P.O.S.T. 176+00
P.I. 179+70.1
P.O.T. 180+88.0
Δ 36°33' Rt
D 8°
R 716.8
T 236.7
L 456.9
E 38.1
BM #23 Spot on Ledge Elev. 682.07
Do not cut
garage
P.I. 173+01.4
173+05.4
GEO. F. JR. & ESTHER WOOD
STATE AID ROAD #3
Δ 49°36' Rt
D 8°
R 716.8
T 331.2
L 620.0
E 72.8
WILBUR & GLADYS M. DOLLOFF
#15A 0.24± ACRE
181+05 15" CMP (Fair) Remove
182+35 Rt 12" CMP Remove
PT 182+58.9
182+61.4 Eq. -2.5
+0.634%
EQ. -3.2
Constructed Drives
Sta Pos
170+0 Rt
177+25 Lt
GUIDE POSTS
Station Lt Rt
173+28 1
173+17 1
176+89 1
181+25 1
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
173+0 177+96 Lt 496
178+50 186+34 Rt 788
178+56 180+0 Lt 144
EQ. -2.5
170+62.5 275 VC 680.80
-4.754%
174+25 150 VC 663.57
176+00 200 VC 637.50
-5.097%
179+87.5 425 VC 639.75
+7.348%
BM #23 Spot on Ledge 43' Rt Sta. 167+86 Elev. 682.07
BM #24 S.I.R. 24" Elm 44' Lt Sta. 178+14 Elev. 646.44
WATERBURY - STOWE
Series F No. 116(6)
Sheet 40 of 169

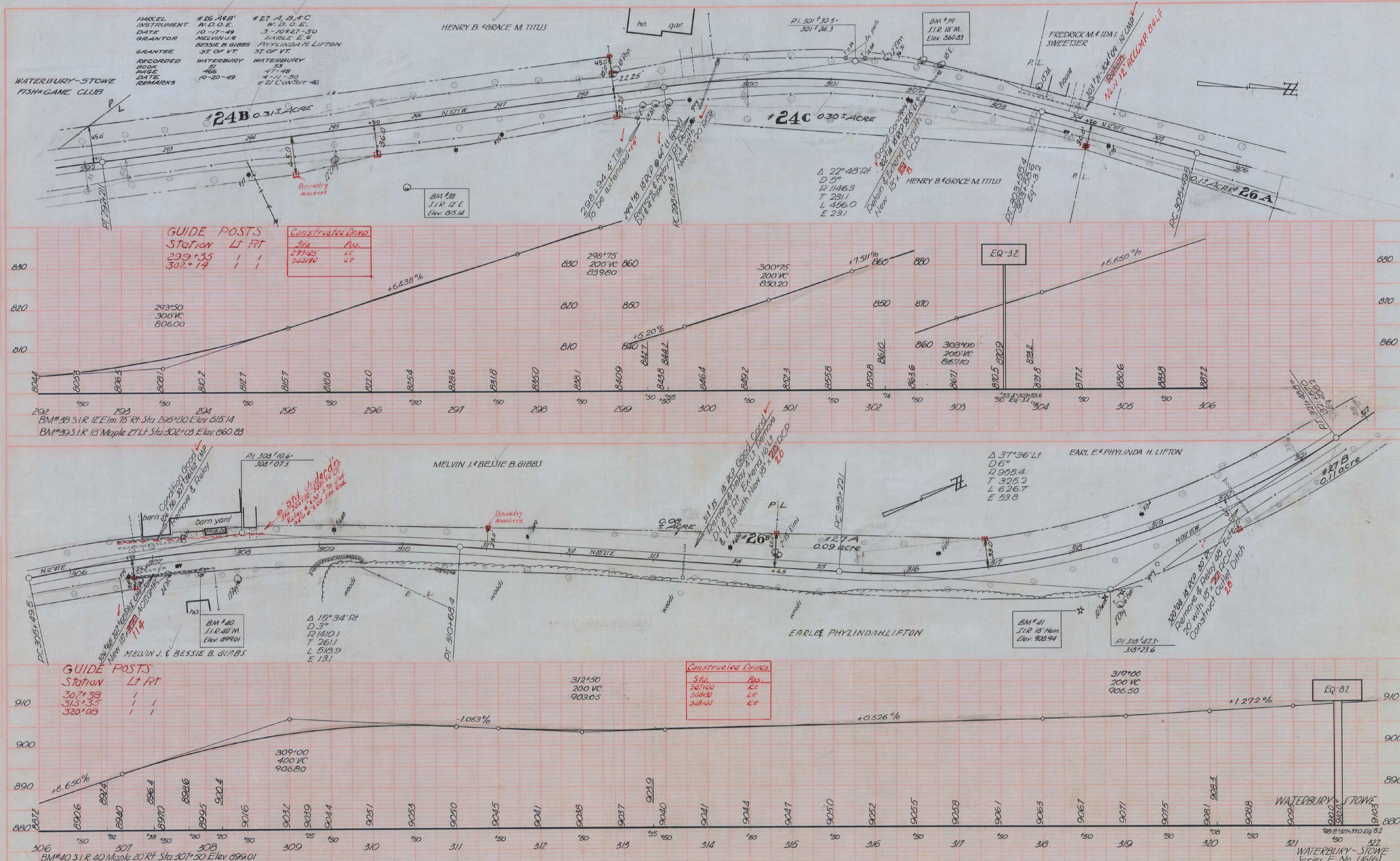

PARCEL #16 A #17 A' #A
INSTRUMENT W.D.O.E. CORP. D.O.E. W.D.O.E.
DATE 10-3-49 10-21-49 6-30-50
GRANTOR FRANK H. & IVA B. EARL F.C. LUCE CO. INC. K. & C. Gibbs
GRANTEE ST. OF VT. ST. OF VT. St. of Vt.
RECORDED WATERBURY WATERBURY Waterbury
BOOK 51 51 53
PAGE 443 464 223B
DATE 10-15-49 10-28-49 1-27-51
REMARKS:- Culvert Rts
Δ 27°33' Lt
D 8°
R 716.8
T 175.7
L 344.4
E 21.2
Δ 37°25' Lt
D 11°
R 521.7
T 176.4
L 340.2
E 29.1
Δ 4°05' Lt
D 0°30'
R 11459.2
T 408.5
L 816.7
E 7.2
PC 184+37.5
DT 187+81.9 = Sta 187+84.5 Equation -2.6
PC 190+88.9
DT 194+20.1
PC 194+85.9
WILBUR & GLADYS M. DOLLOFF
FRANK H. & IVA B. EARL
TIMOTHY E. & PEARL G. CALLAHAN
F.C. LUCE CO., INC.
#16A 0.21± ACRE
#17A 0.05± ACRE
N. STATE
CEMETERY
store
BM #25 S.I.R. 24" E. Elev. 681.63
BM #26 S.I.R. 24" E. Elev. 707.41
P.I. 186+13.2 = 186+06.2
P.I. 192+63.3 = 192+32.7
P.I. 198+94.4 = 198+94.1
184+00 15" RCP (good cond.) Remove & Relay Outlet & Extend 6' Rt with New 15" RCP
Plugged
186+24.5 18" RCP (good cond.) Remove & Relay Outlet & Extend 8' Rt with New 18" RCP Raise D.I. & Gr.
186+26 - 187+74 12" RCP (good cond.) Retain
186+24.5 18" (good cond.) Retain EXT. 4' New D.I.
187+75 12" RCP (good cond.) Retain & Raise D.I. & Gr. 12"
188+55 12" RCP (good cond.) Retain & Raise D.I. & Gr. 6"
187+77 - 188+57 Lt 12" RCP (good cond.) Retain
188+59 - 189 Lt 12" RCP (good cond.) Retain
189+60 - 191+77 Lt 12" RCP (good cond.) Retain
193+12 Rt 12" RCP (good cond.) Retain & Raise D.I. & Gr. 6"
193+68 Rt 10" C.M.P. New 12" ACCGMP
193+68 12" RCP 48" Lt (good cond.) Retain & Raise D.I. & Gr. 6"
194+80 Rt D.I. & Gr. (good cond.) Raise D.I. & Gr. 6"
196+82 12" RCP (good cond.) Retain & Raise D.I. & Gr. 6"
12" x 16" ACCGMP
12" ACCGMP - 100 L.F. D.I. & Grate
197+25 New 18" ACCGMP Length 130 L.F. D.I. & Grate
GUIDE POSTS
Station Lt Rt
184+0 1
186+24.5 1
Constructed Drives
Sta Pos
187+60 RT
188+25 RT
188+50 Lt
192+75 Rt
193+50 Rt
194+0 Lt
195+0 Rt
196+90 Lt
197+50 Rt
Sheet 41-6
+7.348%
+1.881%
+2.291%
+0.367%
187+87.5 325' VC 698.00
192+50 200' VC 706.70
195+50 200' VC 713.57
Equation -2.6
DT 187+81.9 = Sta 187+84.5 Equation -2.6
662.7 666.3 670.0 673.6 677.3 680.9 684.6 686.3 688.2 691.5 694.4 694.9 696.6 697.9 698.7 699.6 700.2 701.5 702.5 702.9 703.2 704.2 705.2 705.5 706.1 707.0 708.0 708.8 709.1 709.4 710.3 711.6 712.0 712.6 712.8 713.3 713.6 714.0 714.2 714.3 714.4 714.5 714.7 714.9 715.1
183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199
Eq. -2.6
BM #25 S.I.R. 24" Elm 40' Rt. Sta. 186+26 Elev. 681.63
BM #26 S.I.R. 24" Elm 26' Rt. Sta. 192+65 Elev. 707.41
WATERBURY-STOWE
Series F no 116(6)
Sheet 41 of 169


Δ 4°05' Lt
D 0°30'
R 11459.2
T 408.5
L 816.7
E 7.2
J. H. MESSER
KEITH H. & COLLEEN R. GIBBS
AGNES V. WOODS
#18A
#19B
#19A
0.38± ACRE
P.I. 208+79.9
P.I. 198+94.4
BM #27 S.I.R. 24"E Elev. 714.36
BM #28 S.I.R. 24"E Elev. 733.39
PARCEL #18 A | #19 A, B & C | #20 A & B
INSTRUMENT W. D. O. E. | W. D. O. E. | W. D. O. E.
DATE 10-7-49 | 10-6-49 | 10-6-49
GRANTOR AGNES V. WOODS | KEITH H. & COLLEEN R. GIBBS | ROBERT J. & MAYDENE E. KELLETT
GRANTEE ST. OF VT. | ST. OF VT. | ST. OF VT.
RECORDED WATERBURY | WATERBURY | WATERBURY
BOOK 51 | 51 | 51
PAGE 469 | 460 | 461
DATE 10-25-49 | 10-18-49 | 10-18-49
REMARKS | #19 C ON SHEET 43 |
Δ 22°10' Rt
D 3°30'
R 1637.3
T 320.7
L 633.3
E 31.1
Concrete Tie Points
GUIDE POSTS
Station Lt Rt
201+38 1 1
203+36 1 1
207+34 1
210+30 1
Constructed Drives
Sta Pos.
204+10 Lt
206+90 Lt
207+25 Rt
207+40 Lt
214+55 Rt
203+75 250' VC 716.60
207+25 400' VC 730.00
212+50 200' VC 734.00
+0.367%
+3.829%
+0.762%
-1.00%
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta To Sta Pos L Feet
207+68 218+56 Lt 1088
BM #27 S.I.R. 24" Elm 26' Rt Sta 201+48 Elev. 714.36
BM #28 S.I.R. 24" Elm 23' Rt Sta 208+73 Elev. 733.39
ROBT. J. & MAYDENE E. KELLETT
#20A
#20B
0.9± ACRE
BM #29 S.I. Pole #459 Elev. 728.87
Δ 13°40' Lt
D 2°
R 2864.9
T 343.3
L 683.3
E 20.5
KEITH H. & COLLEEN R. GIBBS
MRS. A. A. BLANCHARD
BM #30 S.I.R. 15"E Elev. 717.61
P.I. 224+72.7
216+50 200' VC 730.00
220+25 350' VC 733.20
225+50 400' VC 713.60
+0.853%
-3.793%
+1.00%
Eq. 90
GUIDE POSTS
Station Lt Rt
216+02 1 1
223+93 1 1
226+46 1 1
227+0 1
Constructed Drives
Sta Pos.
225+10 Lt
227+00 Lt
BM #29 S.I. Power Pole #459 22.5' Lt. Sta. 219+54. Elev. 728.87
BM #30 S.I.R. 24" Elm 21' Rt Sta 225+56 Elev. 717.61
WATERBURY - STOWE
Series F No 116(6)
Sheet 42 of 169 sheets

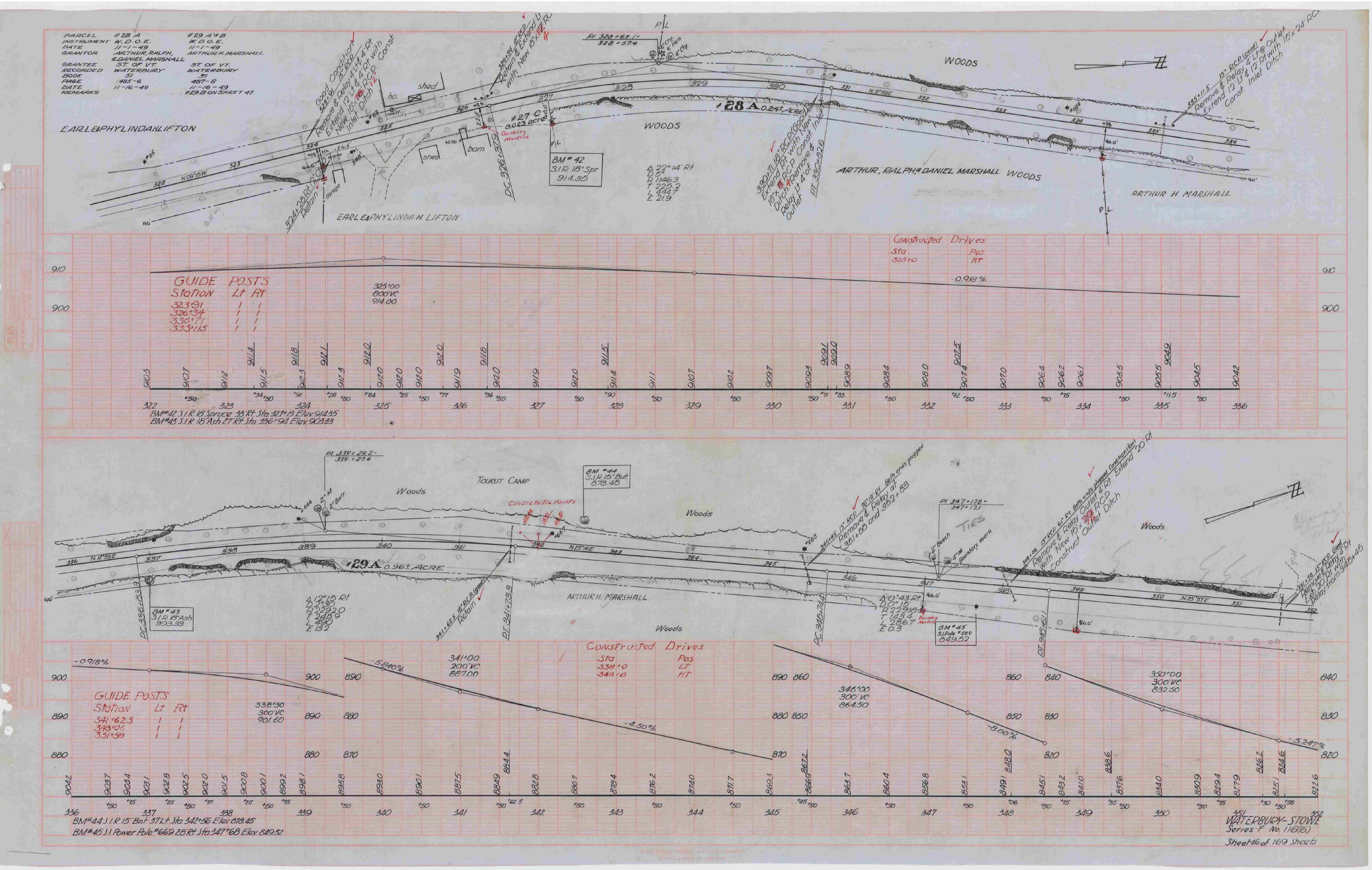


Δ 17°12' Lt
D 2°30'
R 2292.0
T 346.6
L 688.0
E 26.1
ROBERT J. & MAYDENE E. KELLETT
CLYDE M. NORCROSS & ZELTA NORCROSS
#21 A
0.5 acre
#19C
0.73± ACRE
Boundry Markers
ROSCOE S. & HELEN V. GREEN
KEITH H. & COLLEEN R. GIBBS
Δ 11°35' Rt
D 2°30'
R 2292.0
T 232.5
L 463.3
E 11.8
BM #31
S.I.R. 12' E
Elev. 716.88
BM #32
S.I.R. 15' M.
Elev. 729.68
Constructed Drives
Sta. Pos.
239+50 Rt.
242+50 Rt.
235+75
450' VC
716.00
-0.256%
+1.80%
229+50
200' VC
717.60
242+75
250' VC
728.60
Eq. 17
GUIDE POSTS
Station Lt Rt
229+80-234+12 27
233+21 1
235+63 1
238+50 1
239+90
235+0-239+96 31
BM #31 S.I.R. 12' Elm 34' Rt. Sta. 233+45 Elev. 716.88
BM #32 S.I.R. 24' Maple 23' Rt. Sta. 242+12 Elev. 729.68
PARCEL #21 A,B,C,D #22 A
INSTRUMENT W.D.O.E. W.D.O.E.
DATE 12-9&12-49 9-30-49
GRANTOR CLYDE M. & ZELTA NORCROSS ROSCOE S. & HELEN V. GREEN
GRANTEE ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY
BOOK 53 57
PAGE 43-44 439
DATE 2-13-50 10-15-49
REMARKS
NORCROSS
CLYDE M. NORCROSS & ZELTA NORCROSS
21 D
0.37 acre
barn
#22 A
0.06± ACRE
#21 B
0.2 acre
#21 C
0.85 acre
BM #33
S.I.R. 36' E
Elev. 727.13
BM #34
Spot on Culv. H.W.
Elev. 738.42
Δ 5°24' Rt
D 0°30'
R 11459.2
T 540.2
L 1080.0
E 12.7
GUIDE POSTS
Station Lt Rt
245+08 4 4
247+98 4 4
252+82 1 1
259+17 2 2
Constructed Drives
Sta. Pos.
246+00 Rt.
246+75 Lt.
254+75 Lt
256+00 Lt.
-2.006%
246+00
200' V.C
722.00
+0.943%
249+50
200' VC
725.30
+4.378%
255+62.5
400' VC
752.10
-3.129%
-0.155%
BM #33 S.I.R. 30' Elm 30' Rt. Sta. 249+76 Elev. 727.13
BM #34 Spot on Conc. Wing 22' Rt. Sta. 259+19 Elev. 738.42
WATERBURY ~ STOWE
Series F No. 11 6(6)
Sheet 43 of 169 Sheets

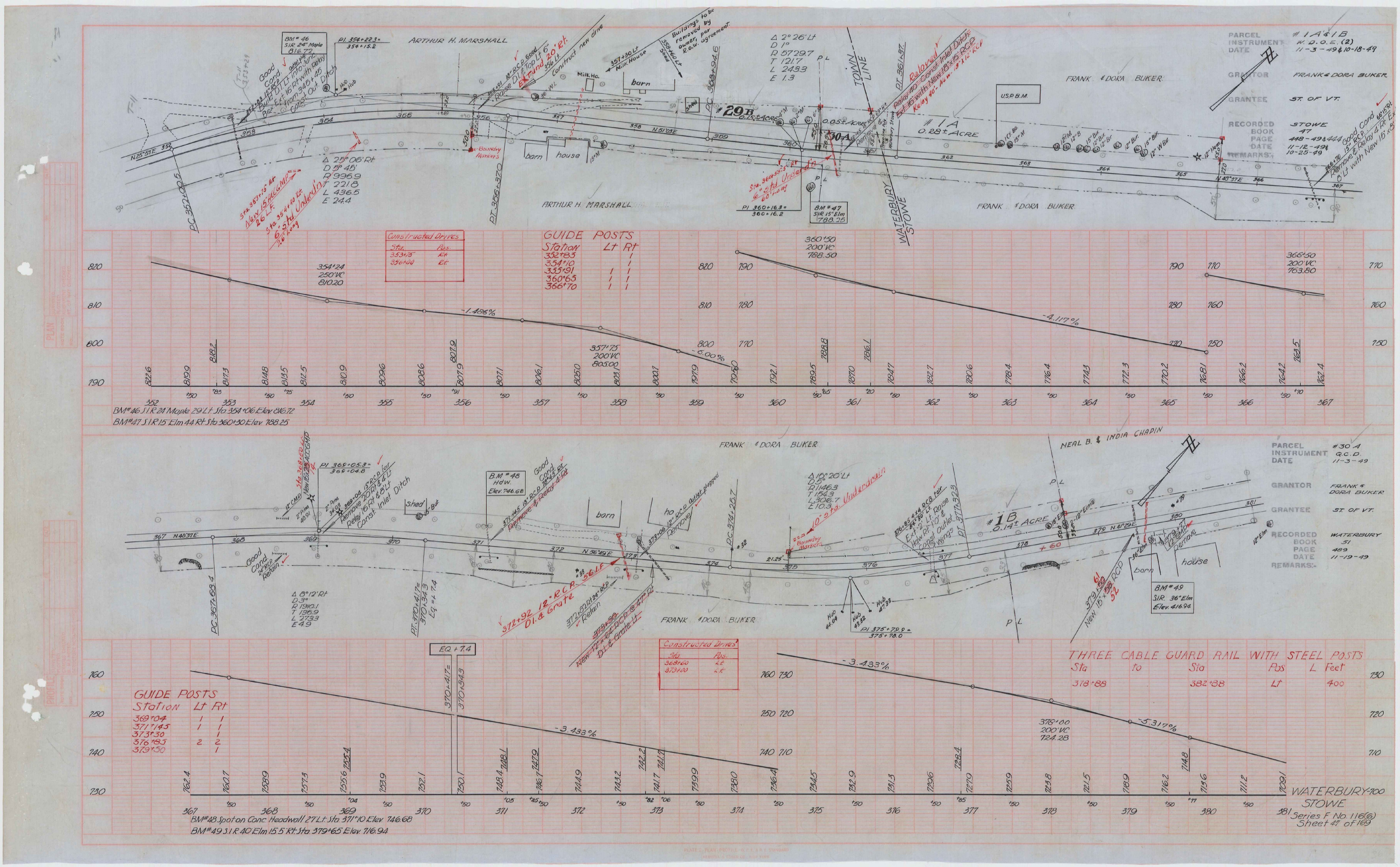

PARCEL #23 A&B #24, A', B, &C #25 A²
INSTRUMENT W.D.O.E. W.D.O.E. W.D.O.E.
DATE 11-3-49 10-6-49 10-18-49
GRANTOR WENDELL T. & BERNICE R. DOLLOFF HENRY B. & GRACE M. TITUS DR. ROBERT F. KENNEDY, BURTON D. GUILD, HARRY F. WALKER, TRUSTEES, WATERBURY-STOWE FISH & GAME CLUB
GRANTEE ST. OF VT. ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY WATERBURY
BOOK 51 51 51
PAGE 483 462 470-471
DATE 11-12-49 10-18-49 11-3-49
REMARKS #24 B&C ON SHEET 45
WENDELL T. & BERNICE R. DOLLOFF
Boundry Markers
#23B 0.63± ACRE
#23A 0.15± ACRE
WENDELL T. & BERNICE R. DOLLOFF
P/L
PC 276+19
GUIDE POSTS
Station Lt Rt
269+17 4 4
271+77 1 1
269+75 300'VC 763.20
274+00 300'VC 783.10
266+25 350'VC 770.00
+4.444%
-1.943%
+4.682%
+0.094%
BM #35 S.I.R. 24" Pine 21' Lt. Sta. 268+05 Elev. 761.94
WENDELL T. & BERNICE R. DOLLOFF
WATERBURY STOWE FISH & GAME CLUB
HENRY B. & GRACE M. TITUS
#25A² 0.2± ACRE
#24A' 0.32± ACRE
Δ 34°40' Lt
D 4°
R 1432.7
T 447.1
L 866.7
E 68.2
Δ 6°05' Rt
D 2°
R 2864.9
T 152
L 304.2
E 4.0
PI 290+69.1
BM #36 S.I.R. 2-15" E. Elev. 778.87
BM #37 S.I.P. #489 Elev. 804.55
276+43 18" RCP Retain & Extend Lt with New 18"x 24" RCP Const. Outlet Ditch
Concrete Tie
GUIDE POSTS
Station Lt Rt
276+43 1 1
288+19 1 1
290+91 1 1
278+25 250'VC 783.50
285+50 300'VC 805.20
289+50 300'VC 801.00
+2.993%
-1.050%
+1.250%
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta To Sta Pos L Feet
278+36 279+80 Lt 144
278+36 279+80 Rt 144
Constructed Drives
Sta Pos
277+50 RT
280+10 Lt
285+0 RT
289+25 Lt
WATERBURY ~ STOWE
Series No.
Sheet 44 of 169 Sheets
BM #36 S.I.R. 2-12" Elm 32' Rt. Sta. 276+91 Elev. 778.87 BM #37 S.I. Power Pole #489 20' Rt. Sta. 286+84 Elev. 804.55

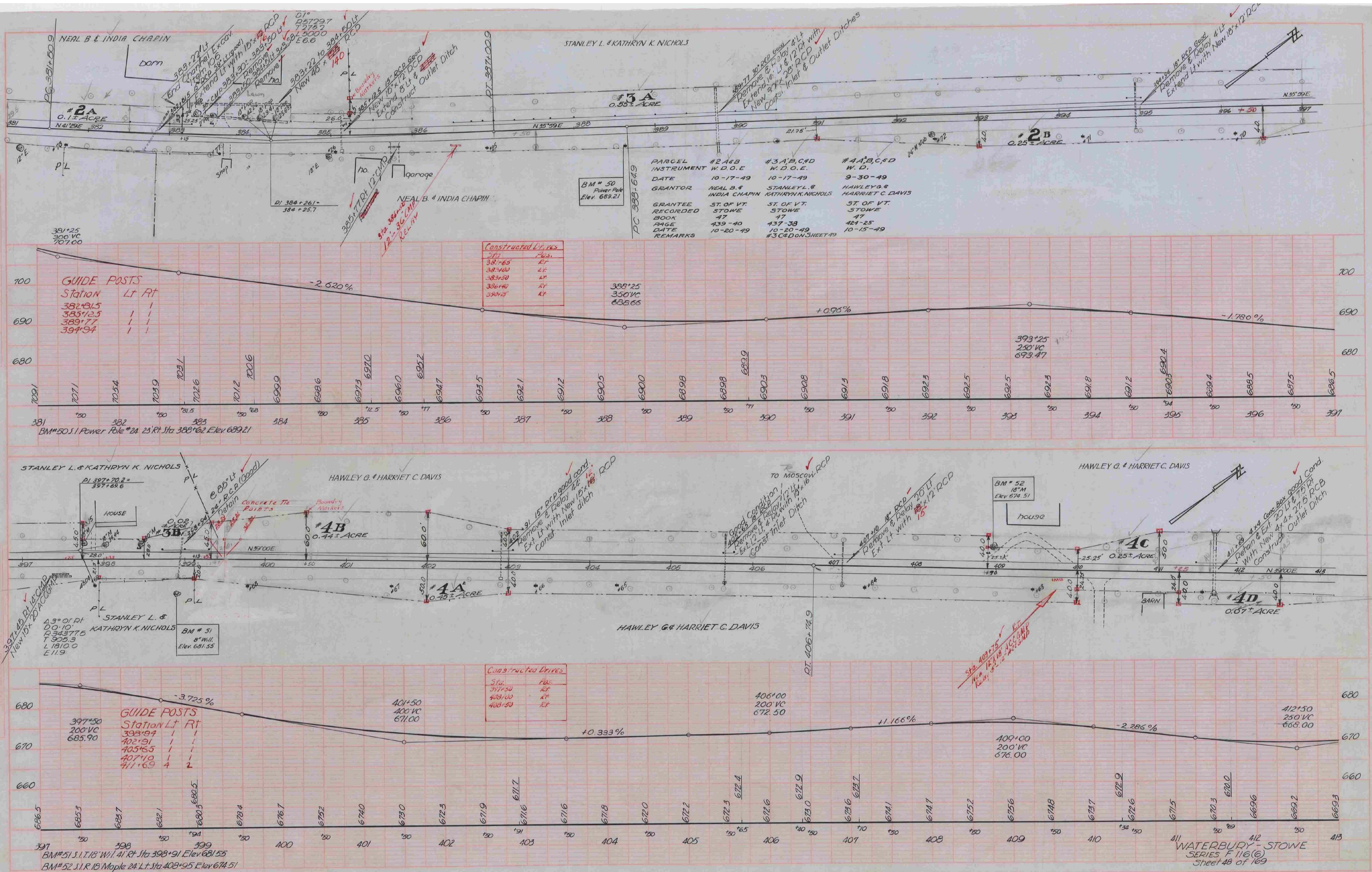


PARCEL #26 A&B' #27 A, B, & C
INSTRUMENT W.D.O.E. W.D.O.E.
DATE 10-17-49 3-10&27-50
GRANTOR MELVIN J.& BESSIE B. GIBBS EARL E.& PHYLINDA H. LIFTON
GRANTEE ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY
BOOK 51 53
PAGE 466 47-48
DATE 10-20-49 4-11-50
REMARKS #21 CONST. 46
WATERBURY-STOWE FISH & GAME CLUB
HENRY B. & GRACE M. TITUS
#24B 0.31± ACRE
#24C 0.30± ACRE
FREDRICK M. & IDA I. SWEETSER
BM #38 S.I.R. 12" E. Elev. 815.14
BM #39 S.I.R. 18" M. Elev. 860.83
P.I. 301+30.5 301+24.3
Δ 22°48' Rt. D 5° R 1146.3 T 231.1 L 456.0 E 23.1
PC 305+49.5
#26 A
Boundry Markers
GUIDE POSTS
Station Lt Rt
299+35 1 1
302+14 1 1
Constructed Drives
Sta. Pos.
299+25 Lt
303+30 Lt
EQ-32
+6.438%
+5.20%
+7.511%
+6.650%
293+50 300'VC 806.00
298+75 200'VC 839.80
300+75 200'VC 850.20
303+00 200'VC 867.10
BM #38 S.I.R. 12" Elm 15' Rt. Sta. 295+80 Elev. 815.14
BM #39 S.I.R. 18" Maple 27' Lt. Sta. 302+03 Elev. 860.83
MELVIN J. & BESSIE B. GIBBS
EARL E. & PHYLINDA H. LIFTON
P.I. 308+10.6 308+07.5
Δ 37°36' Lt D 6° R 955.4 T 325.2 L 626.7 E 53.8
Δ 15°34' Rt D 3° R 1910.1 T 261.1 L 518.9 E 13.1
BM #40 S.I.R. 40" M. Elev. 899.01
BM #41 S.I.R. 18" Hem. Elev. 908.94
P.I. 318+47.3 318+23.6
PT 310+68.4
PC 315+72.1
0.08± ACRE
#26B
#27 A 0.09 acre
#27 B 0.11 acre
EARL E. & PHYLINDA H. LIFTON
MELVIN J. & BESSIE B. GIBBS
GUIDE POSTS
Station Lt Rt
307+38 1
315+35 1 1
320+05 1 1
Constructed Drives
Sta. Pos.
307+00 Rt.
308+00 Lt.
318+00 Rt.
312+50 200 VC 903.05
319+00 200 VC 906.50
309+00 400'VC 906.80
EQ-82
+6.650%
-1.063%
+0.526%
+1.272%
BM #40 S.I.R. 40 Maple 20' Rt. Sta. 307+50 Elev. 899.01
BM #41 S.I.R. 18" Hem. 10' Rt. Sta. 318+00 Elev. 908.94
WATERBURY-STOWE
Series F No. 116(6)
Sheet 45 of 169 sheets

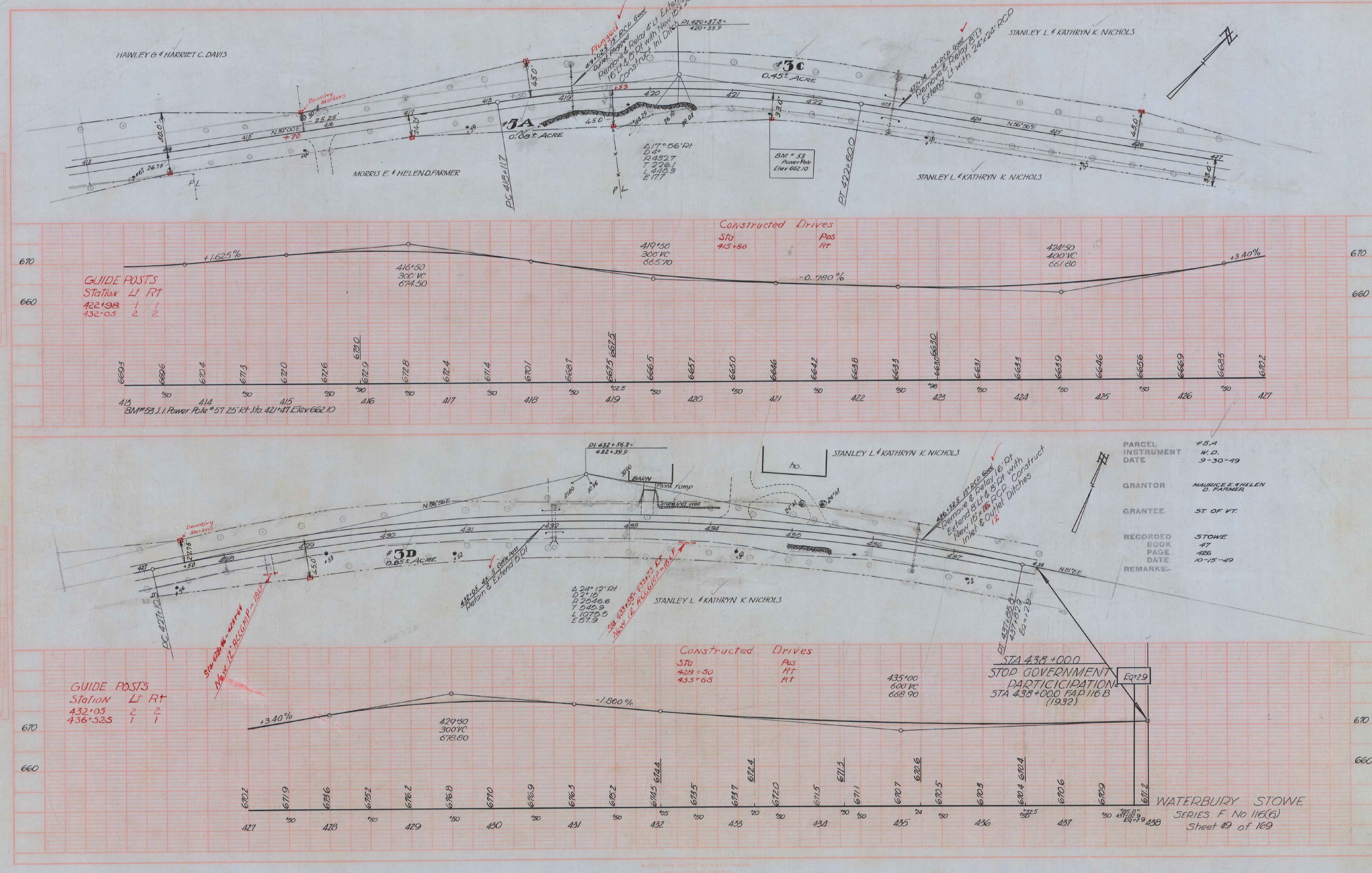


PARCEL #28 A #29 A & B
INSTRUMENT W.D.O.E. W.D.O.E.
DATE 11-1-49 11-1-49
GRANTOR ARTHUR, RALPH, & DANIEL MARSHALL ARTHUR H. MARSHALL
GRANTEE ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY
BOOK 51 51
PAGE 485-6 487-8
DATE 11-16-49 11-16-49
REMARKS #29 B ON SHEET 47
EARLE & PHYLINDA H. LIFTON
WOODS
ARTHUR, RALPH & DANIEL MARSHALL WOODS
ARTHUR H MARSHALL
#28 A 0.24± Acre
#27 C 0.023 acre
BM# 42 S.I.R 18" Spr 914.35
Constructed Drives
Sta Pos
325+0 Rt
GUIDE POSTS
Station Lt Rt
323+91 1 1
326+34 1 1
330+71 1 1
335+11.5 1 1
325+00 600' VC 914.00
-0.918%
BM#42 S.I.R 18" Spruce 38 Rt Sta 327+15 Elev 914.35
BM#43 S.I.R 18" Ash 27 Rt Sta 336+94 Elev 903.33
TOURIST CAMP
Woods
29 A 0.96± ACRE
ARTHUR H. MARSHALL
BM #44 S.I.R 15" But 878.45
BM #43 S.I.R 18" Ash 903.33
BM #45 S.I. Pole #669 849.52
Concrete Tie Points
TIES
Constructed Drives
Sta Pos
338+0 Lt
348+0 Rt
GUIDE POSTS
Station Lt Rt
341+62.5 1 1
348+06 1 1
351+58 1 1
338+50 300' VC 901.60
341+00 200' VC 887.00
346+00 300' VC 864.50
350+00 300' VC 832.50
-0.918%
-5.840%
-4.50%
-8.00%
-5.247%
BM#44 S.I.R 15" Bnt 57 Lt Sta 342+56 Elev 878.45
BM#45 S.I. Power Pole #669 28 Rt Sta 347+68 Elev 849.52
WATERBURY-STOWE
Series F No. 116(6)
Sheet 46 of 169 Sheets

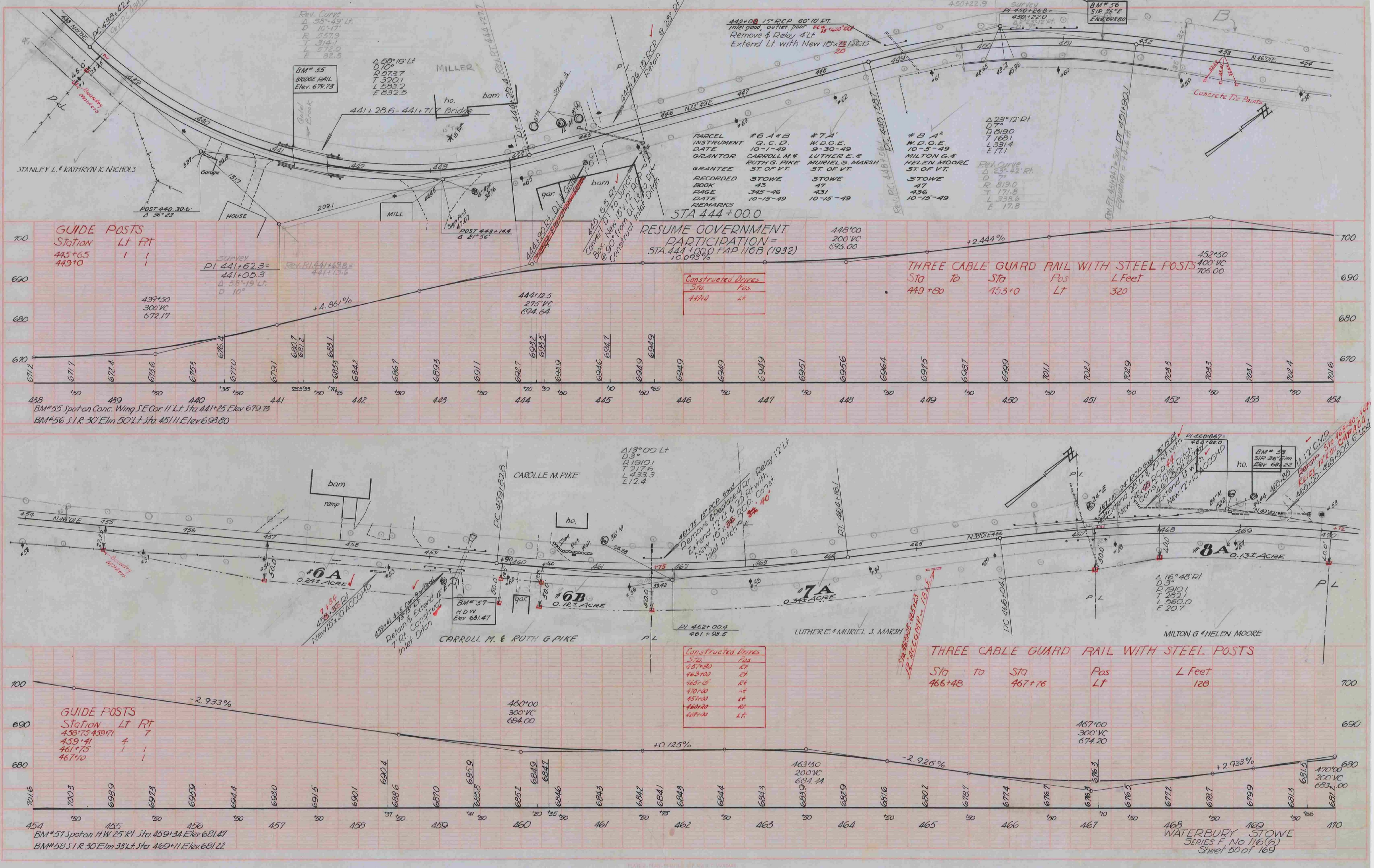

ARTHUR H. MARSHALL
FRANK & DORA BUKER
PARCEL #1A & 1B
INSTRUMENT W. D. O. E. (2)
DATE 11-3-49 & 10-18-49
GRANTOR FRANK & DORA BUKER
GRANTEE ST. OF VT.
RECORDED STOWE
BOOK 47
PAGE 448-49 & 444
DATE 11-12-49 & 10-25-49
REMARKS:
#1A 0.28± ACRE
#29B
TOWN LINE
WATERBURY
STOWE
USP B.M.
Milk Ho.
barn
house
BM #46 S.I.R. 24" Maple 816.72
BM #47 S.I.R. 15" Elm 788.25
PI 354+22.3 = 354+15.2
PI 360+16.3 = 360+16.2
Δ 25°06' Rt
D 5° 48'
R 996.9
T 221.8
L 436.5
E 24.4
Δ 2° 26' Lt
D 1°
R 5729.7
T 121.7
L 243.3
E 1.3
Constructed Drives
Sta. Pos.
353+15 Rt
356+40 Rt
GUIDE POSTS
Station Lt Rt
352+85 1
354+10 1
355+91 1
360+65 1 1
366+70 1 1
354+24
250' VC
810.20
357+75
200' VC
805.00
360+50
200' VC
788.50
366+50
200' VC
763.80
-1.486%
-6.00%
-4.117%
BM #46 S.I.R. 24 Maple 29 Lt Sta 354+06 Elev 816.72
BM #47 S.I.R. 15 Elm 44 Rt Sta 360+30 Elev 788.25
FRANK & DORA BUKER
NEAL B. & INDIA CHAPIN
PARCEL #30 A
INSTRUMENT Q.C.D.
DATE 11-3-49
GRANTOR FRANK & DORA BUKER
GRANTEE ST. OF VT.
RECORDED WATERBURY
BOOK 51
PAGE 489
DATE 11-19-49
REMARKS:
#1B 0.14± ACRE
PI 369+05.3 = 369+04.8
PI 375+79.9 = 375+78.0
B.M. #48 Hdw. Elev. 746.68
BM #49 S.I.R. 36" Elm Elev. 716.94
Δ 8° 12' Rt
D 2°
R 1910.1
T 136.9
L 273.3
E 4.9
Δ 10° 20' Lt
D 5°
R 1146.3
T 154.3
L 306.7
E 10.3
EQ + 7.4
370+41.7 = 370+34.3
Constructed Drives
Sta. Pos.
368+60 Lt
373+00 Lt
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
378+88 382+88 Lt 400
GUIDE POSTS
Station Lt Rt
369+04 1 1
371+45 1 1
373+30 1 1
376+85 2 2
379+30 1
-3.433%
-5.317%
376+00
200' VC
724.28
BM #48 Spot on Conc Headwall 27 Lt Sta 371+10 Elev 746.68
BM #49 S.I.R. 40 Elm 15.5 Rt Sta 379+65 Elev 716.94
WATERBURY-STOWE
Series F No. 116(6)
Sheet 47 of 169



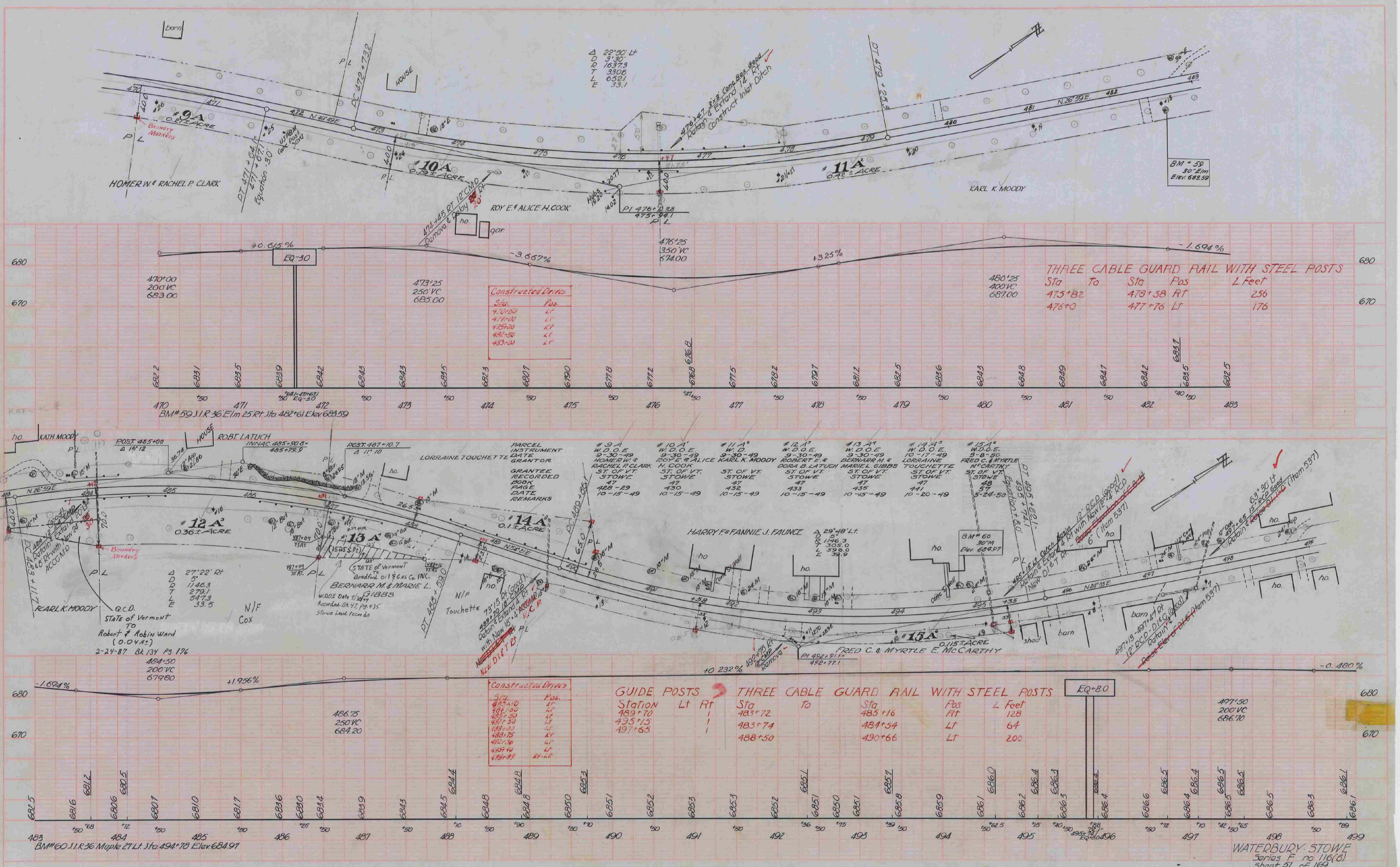
NEAL B. & INDIA CHAPIN
STANLEY L. & KATHRYN K. NICHOLS
#2A 0.1± ACRE
#3A 0.55± ACRE
#2B 0.25± ACRE
N 41°29'E
N 35°59'E
PC 381+80.9
PT 387+00.9
PC 388+64.9
BM # 50 Power Pole Elev. 689.21
PARCEL #2 A&B #3 A', B, C&D #4 A, B, C & D
INSTRUMENT W.D.O.E. W.D.O.E. W.D.
DATE 10-17-49 10-17-49 9-30-49
GRANTOR NEAL B. & INDIA CHAPIN STANLEY L. & KATHRYN K. NICHOLS HAWLEY G. & HARRIET C. DAVIS
GRANTEE ST. OF VT. ST. OF VT. ST. OF VT.
RECORDED STOWE STOWE STOWE
BOOK 47 47 47
PAGE 439-40 437-38 424-25
DATE 10-20-49 10-20-49 10-15-49
REMARKS #3 C & D ON SHEET 49
Constructed Drives
GUIDE POSTS
Station Lt Rt
382+81.5 1 1
385+25 1 1
389+77 1 1
394+94 1 1
-2.620%
+0.96%
-1.780%
381+25 300'VC 707.00
388+25 350'VC 688.66
393+25 250'VC 693.47
BM#50 S.I. Power Pole #24 23' Rt Sta 388+62 Elev 689.21
HAWLEY G. & HARRIET C. DAVIS
#4B 0.44± ACRE
#4A' 0.49± ACRE
#3B
#4C 0.25± ACRE
#4D 0.67± ACRE
N 39°00'E
PT 406+74.9
BM # 51 8" Wil. Elev. 681.55
BM # 52 18" M Elev. 674.51
TO MOSCOW
Constructed Drives
GUIDE POSTS
Station Lt Rt
398+94 1 1
402+91 1 1
405+55 1 1
407+10 1 1
411+69 4 2
-3.725%
+0.333%
+1.166%
-2.286%
397+50 200'VC 685.90
401+50 400'VC 671.00
406+00 200'VC 672.50
409+00 200'VC 676.00
412+50 250'VC 668.00
BM#51 S.I.T. 18" Wil. 41' Rt Sta 398+91 Elev 681.55
BM#52 S.I.R. 18 Maple 24' Lt Sta 408+95 Elev 674.51
WATERBURY - STOWE
SERIES F 116(6)
Sheet 48 of 169



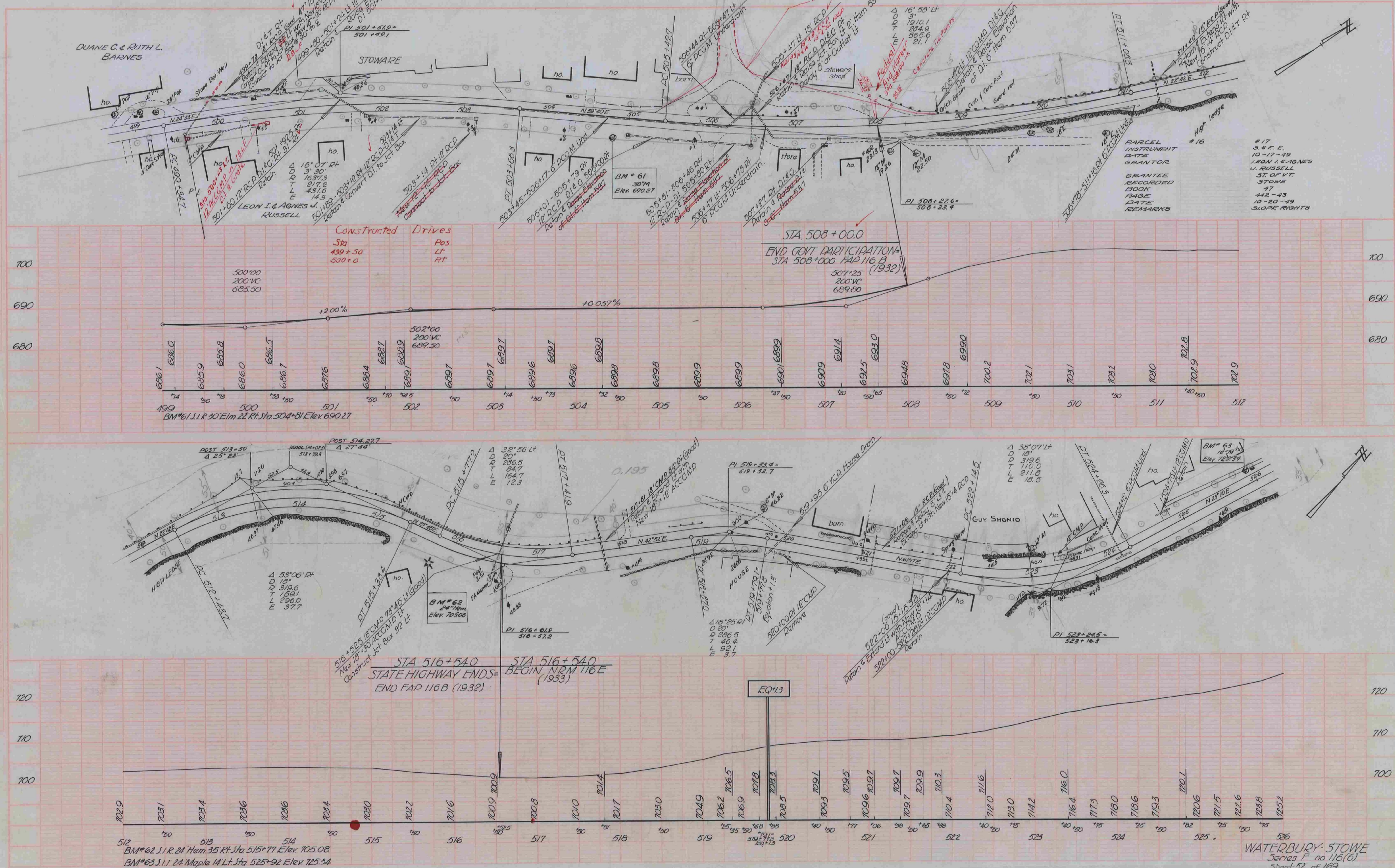
HAWLEY G. & HARRIET C. DAVIS
MORRIS E. & HELEN D. FARMER
STANLEY L. & KATHRYN K. NICHOLS
#3A 0.06± ACRE
#3C 0.45± ACRE
#3D 0.85± ACRE
Plugged
Remove & Relay 4' Lt Extend 16' Lt & 8' Rt with New 18"x24" RCP Construct Inl. Ditch
Remove & Relay 8' Lt Extend Lt with 24"x24" RCP
Δ17° 56' Rt
D 4°
R 1432.7
T 226.1
L 448.3
E 17.7
BM #53 Power Pole Elev 662.10
PC 418+11.7
PT 422+60.0
Constructed Drives
Sta 415+80 Pos Rt
GUIDE POSTS
Station Lt Rt
422+98 1 1
432+05 2 2
+1.625%
416+50 300' VC 674.50
419+50 300' VC 665.70
-0.780%
424+50 400' VC 661.80
+3.40%
BM #53 S.1. Power Pole #57 25' Rt Sta. 421+47 Elev 662.10
PI 432+56.8 432+39.9
BARN
ho.
PARCEL #3A
INSTRUMENT W.D.
DATE 9-30-49
GRANTOR MAURICE E. & HELEN D. FARMER
GRANTEE ST. OF VT.
RECORDED STOWE
BOOK 47
PAGE 486
DATE 10-15-49
REMARKS:-
Δ24° 12' Rt
D 2° 10'
R 2546.6
T 545.9
L 1075.5
E 57.9
Retain & Extend DDI
Remove & Relay 16' Rt Extend 8' Lt & 8' Rt with New 15"x18" RCP Construct Inlet & Outlet Ditches
PC 427+10.5
Constructed Drives
Sta 428+50 Pos Rt
433+65 Rt
GUIDE POSTS
Station Lt Rt
432+05 2 2
436+52.5 1 1
+3.40%
429+50 300' VC 678.80
-1.800%
435+00 600' VC 668.90
STA 438+00.0
STOP GOVERNMENT PARTICIPATION
STA 438+00.0 FAP 116 B (1932)
Eq. 29
WATERBURY STOWE
SERIES F No 116(6)
Sheet 49 of 169



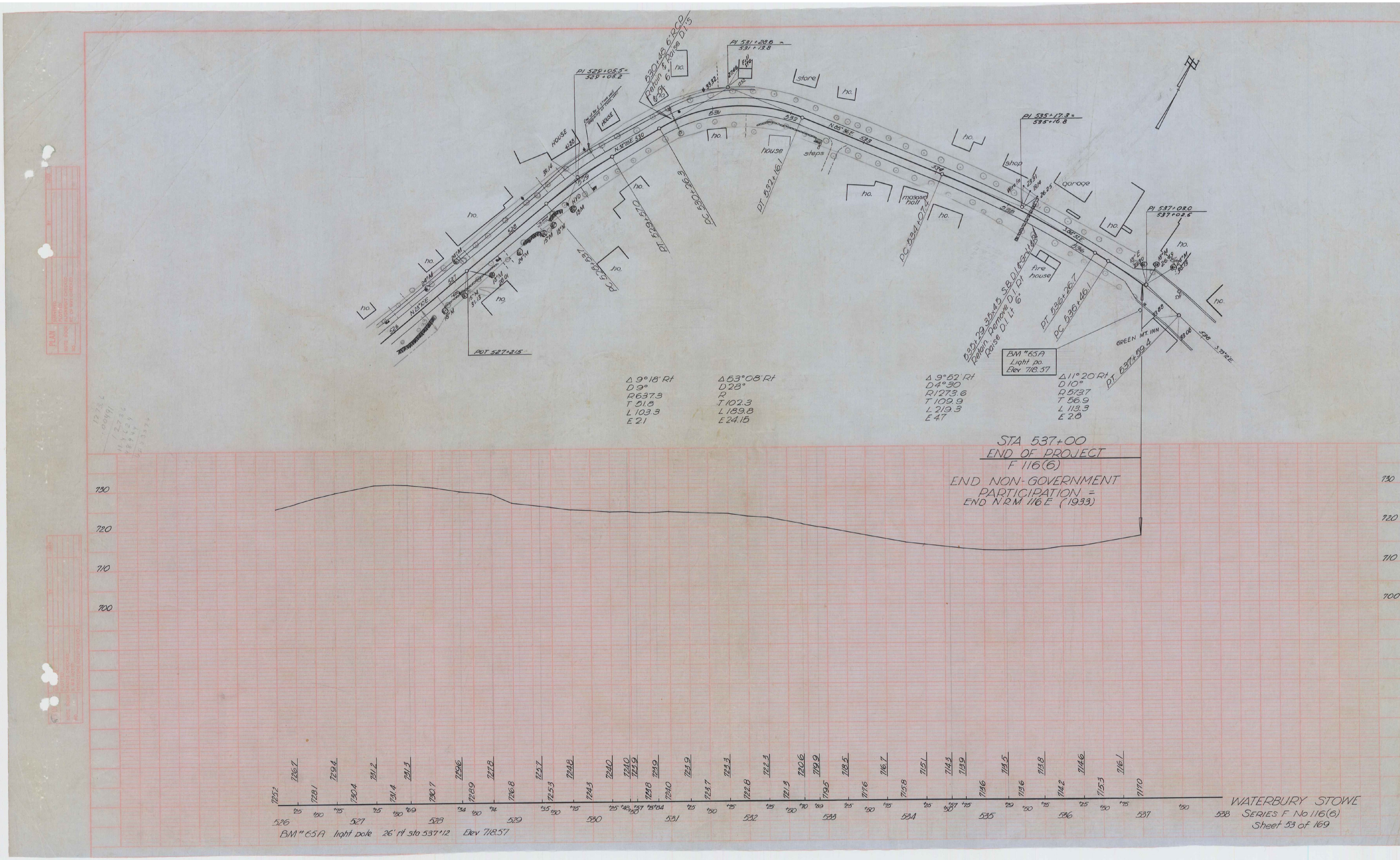
STANLEY L. & KATHRYN K. NICHOLS
BM# 55 BRIDGE RAIL Elev. 679.73
MILLER
441+28.6 - 441+71.7 Bridge
POST 440+30.6 Δ 36°23'
POST 443+16.4 Δ 21°36'
HOUSE
MILL
gar.
barn
STA 444+00.0
RESUME GOVERNMENT PARTICIPATION = STA 444+00.0 FAP 116B (1932)
440+00 15" RCP 60'10' Rt. Remove & Relay 4' Lt. Extend Lt. with New 15" RCP
Concrete Tie Points
BM# 56 SIR 36"E Elev. 693.80
PARCEL | #6 A & B | #7 A' | #8 A²
INSTRUMENT | Q. C. D. | W. D. O. E. | W. D. O. E.
DATE | 10-1-49 | 9-30-49 | 10-5-49
GRANTOR | CARROLL M. & RUTH G. PIKE | LUTHER E. & MURIEL S. MARSH | MILTON G. & HELEN MOORE
GRANTEE | ST. OF VT. | ST. OF VT. | ST. OF VT.
RECORDED | STOWE | STOWE | STOWE
BOOK | 43 | 47 | 47
PAGE | 345-46 | 431 | 436
DATE | 10-15-49 | 10-15-49 | 10-15-49
REMARKS
GUIDE POSTS
Station Lt Rt
445+65 1 1
449+0 1
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
449+80 453+0 Lt 320
Constructed Drives
Sta. Pos.
444+10 Lt
BM# 55 Spot on Conc. Wing S.E. Cor. 11 Lt. Sta. 441+25 Elev. 679.73
BM# 56 S.I.R. 30" Elm 50 Lt. Sta. 451+11 Elev. 693.80
CARROLLE M. PIKE
CARROLL M. & RUTH G. PIKE
LUTHER E. & MURIEL S. MARSH
MILTON G. & HELEN MOORE
#6A 0.24± ACRE
#6B 0.12± ACRE
#7A 0.34± ACRE
#8A² 0.13± ACRE
BM# 57 H.D.W. Elev. 681.47
BM# 58 SIR 36"E Elev. 681.22
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
466+48 467+76 Lt 128
GUIDE POSTS
Station Lt Rt
458+75 459+71 7
459+41 4
461+75 1 1
467+10 1
Constructed Drives
BM# 57 Spot on H.W. 25' Rt. Sta. 459+34 Elev. 681.47
BM# 58 S.I.R. 30" Elm 33 Lt. Sta. 469+11 Elev. 681.22
WATERBURY - STOWE
SERIES F. No 116(6)
Sheet 50 of 169



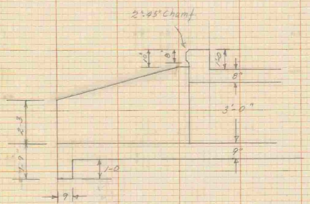
Δ 22°50' Lt
D 3°30'
R 1637.3
T 330.6
L 652.1
E 33.1
HOUSE
PL
PC 472 +73.2
PT 479 +25.5
476+47 3'x3' Conc Box Good Retain & Extend 14' Rt Construct Inlet Ditch
9A 0.07± ACRE
10A 0.29± ACRE
11A 0.16± ACRE
HOMER W. & RACHEL P. CLARK
ROY E. & ALICE H. COOK
KARL K. MOODY
PI 476+03.38
BM # 59 30" Elm Elev. 683.59
474+46 Rt 12" CMP Remove & Relay
+0.615%
-3.667%
+3.25%
-1.694%
EQ -30
470+00 200'VC 683.00
473+25 250'VC 685.00
476+25 350'VC 674.00
480+25 400'VC 687.00
Constructed Drives
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta To Sta Pos L Feet
475+82 478+38 Rt 256
476+0 477+76 Lt 176
BM # 59 31 R 36 Elm 25' Rt Sta 482+61 Elev 683.59
KATH. MOODY
ROBT. LATUCH
HOUSE
POST 485+00 Δ 1°12'
POST 487+10.7 Δ 11°10'
LORRAINE TOUCHETTE
PARCEL
INSTRUMENT
DATE
GRANTOR
GRANTEE
RECORDED
BOOK
PAGE
DATE
REMARKS
12A 0.36± ACRE
13A
14A 0.17± ACRE
15A 0.115± ACRE
Δ 27°22' Rt
D 5°
R 1146.3
T 279.1
L 547.3
E 33.5
HARRY F. & FANNIE J. FAUNCE
Δ 29°48' Lt
D 5°
R 1146.3
T 305.0
L 596.0
E 39.9
BM # 60 30" M Elev. 684.97
STATE of Vermont
BERNARR M. & MARIE L. GIBBS
KARL K. MOODY
Q.C.D.
STATE of Vermont TO Robert & Robin Ward (0.04 A±) 2-24-87 Bk. 134 Pg. 176
N/F Cox
N/F Touchette
FRED C. & MYRTLE E. McCARTHY
PI 492+91.1
-1.694%
+1.956%
+0.232%
-0.480%
484+50 200'VC 679.80
486+75 250'VC 684.20
497+50 200'VC 686.70
EQ +8.0
Constructed Drives
GUIDE POSTS
Station Lt Rt
489+70 1
495+15 1
497+85 1
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta To Sta Pos L Feet
483+72 485+16 Rt 128
483+74 484+54 Lt 64
488+50 490+66 Lt 200
BM # 60 31 R 36 Maple 27 Lt Sta 494+78 Elev 684.97
WATERBURY-STOWE
Series F no 116(8)
Sheet 51 of 169

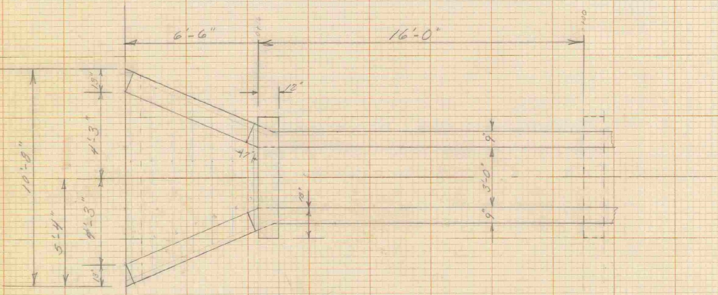


DUANE C. & RUTH L. BARNES
STOWARE
LEON I. & AGNES J. RUSSELL
BM # 61 30"M Elev. 690.27
Constructed Drives
Sta Pos
499+50 Lt
500+0 Rt
STA 508+00.0
END GOVT PARTICIPATION= STA 508+000 FAP 116 B (1932)
PARCEL
INSTRUMENT
DATE
GRANTOR
GRANTEE
RECORDED
BOOK
PAGE
DATE
REMARKS
#17
3,4 E.E.
10-17-49
LEON I. & AGNES J. RUSSELL
ST. OF VT.
STOWE
47
442-43
10-20-49
SLOPE RIGHTS
High ledge
+2.00%
+0.057%
BM #61 S.I. R 30 Elm 22 Rt Sta 504+81 Elev 690.27
HIGH LEDGE
GUY SHONIO
HOUSE
STA 516+54.0
STATE HIGHWAY ENDS=
END FAP 116B (1932)
STA 516+54.0
BEGIN NRM 116E
(1933)
EQ #13
BM #62 S.I. R 24 Hem 35 Rt Sta 515+77 Elev 705.08
BM #63 S.I. T 24 Maple 14 Lt Sta 525+92 Elev 725.34
WATERBURY-STOWE
Series F no 116(6)
Sheet 52 of 169

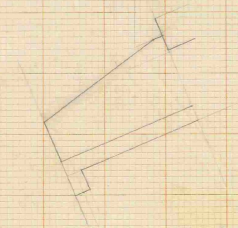


PI 529+05.5= 529+05.2
PI 531+28.6= 531+13.8
PI 535+17.3= 535+16.8
PI 537+08.0 537+02.6
530+48 6' RCO Retain & Raise D15
POT 527+21.5
PC 529+53.7
PT 529+97.0
PC 530+26.3
PT 532+16.1
PC 534+07.4
535+29.35+45 S.B. D1 Remove D1 Rt Raise D1 Lt 6'
PT 536+26.7
PC 536+46.1
PT 537+59.4
BM "65A Light po. Elev 718.57
GREEN MT. INN
house
steps
store
shop
garage
masonic hall
fire house
HOUSE
Δ 9°18' Rt
D 9°
R 637.3
T 51.8
L 103.3
E 2.1
Δ 53°08' Rt
D 28°
R
T 102.3
L 189.8
E 24.15
Δ 9°52' Rt
D 4°30
R 1273.6
T 109.9
L 219.3
E 4.7
Δ 11°20' Rt
D 10°
R 573.7
T 56.9
L 113.3
E 2.8
STA 537+00
END OF PROJECT
F 116(6)
END NON-GOVERNMENT PARTICIPATION =
END N.R.M. 116 E (1933)
730
720
710
700
BM "65A light pole 26' rt sta 537+12 Elev 718.57
WATERBURY STOWE
SERIES F No 116(6)
Sheet 53 of 169





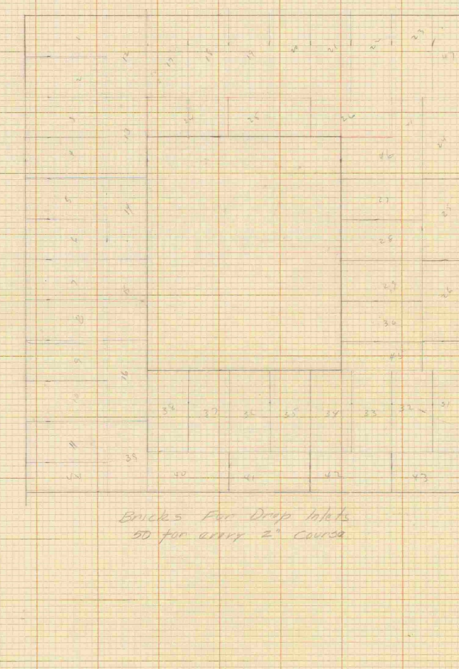
V_1 10-0
V_2 8-9
V_3 8-3
V_4 7-6
V_5 6-6
V_6 5-8
V_7 4-9



117+51
3×3 R.C.B.

0+00	26.0	
16		16
0+16	26.0	
7.5		10
0+23.5	52.0	
	T.E	26 C.Y

T.R = $1\frac{1}{2}$ C.Y



Bricks For Drop Inlets
50 for every 2" Course

1" Mortar - 3 courses

Waterbury Stowe
F 116 (6)

State of Vermont — Department of Highways

WATERBURY-STOWE — F. ~~A.P.~~ No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 29 — 1949

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		534+57					18						19	
						18		12						13
		+75					18						20	
						25		17						18
		535					18						19	
						50		33						36
		+50					18						20	
						25		17						18
		+75					18		C	135			19	
						25		17	SB	141				17
		536					18		Fac	1.2			18	
						25		17	ExC	135				18
		+25					18						20	
						25		17						18
		+50					18						18	
						25		17						17
		+75					18						18	
						25		17						17
		537					18						19	
		CARRIED FORWARD												
		COLUMN FOOTINGS						164						172

END OF PROJECT F 116(6)
END NON GOV'T PARTICIPATION

GRAVEL BACKFILL

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		428+00									0			
						50						17		
		+50									18			
						50						47		
		429+00									33			
						50						57		
		+50									29			
						50						53		
		430+00									28			
						50						56		
		+50									33			
						50						31		
		431+00									0			
								TOTAL				261		
								STONE FILL (GOV)						
		370+50							0					
						50				7				
		371+00							8					
						05				2				
		+05							11					
						45				19				
		+50							12					
						50				16				
		372+00							5					
						50				7				
		+50							3					
						32				2				
		+82							0					
								TOTAL		53				
								STONE FILL NON GOV.						
		16+00					0							
						50		49						
		+50					53							
						50		107						
		17+00					63							
						50		123						
		+50					70							
						50		131						
		18+00					72							
						50		67						
		+50					0							
							TOTAL	477						
		CARRIED FORWARD												
		COLUMN FOOTINGS												

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

State of Vermont — Department of Highways

WATERBURY - STOWE F. ~~A. P.~~ No. 116(6)

FORM ENG. 1A EARTHWORK SHEET NO. 30 1949

1

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		CHANNEL EXCAVATION												
		15+25	LEFT				0							
						25		2						
		+50					4							
						50		27						
		16					25							
						50		96						
		+50					79							
						50		218						
		17					156							
						50		294						
		+50					162							
						50		317						
		18					180							
						50		167						
		+50					0							
					Total			1121						
	+0.125%	92+25	RIGHT				0							
						25		1						
		+50	575.5				3							
						50		9						
		93	575.6				7							
						50		13						
		+25	575.6				7							
						50		12						
		+50	575.6				6							
						50		19						
		+77	575.7				14							
						50		20						
		94	575.7				8							
						50		19						
		+50	575.8				13							
						50		26	119					
		95	575.8				15							
		+47	575.9			50		36						
		+50	575.9				24							
						50		34						
		96	575.9				13							
						50		19						
	+1.1786%	+50	576.0				8							
						50		22						
		97	576.6				16							
						50		30						
		+50	577.2				16							
						50		32						
		98	577.8				19							
						50		35						
		+50	578.4				19							
						25		16						
		+75	578.7				16							
						25		32						
		99	578.9				54							
						50		69	325					
		+50	579.5				20							
					Sub-Total			444						
		CARRIED FORWARD												
		COLUMN FOOTINGS												

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
					Sub-Total			444						
	+1.1786%	99+50	579.5				20							
						50		29						
		100	580.1				11							
						50		45						
		+50	580.7				38							
						50		50						
		101	581.3				16							
						50		72						
		+50	581.9				62							
						50		115						
		102	582.5				62							
						50		72						
		+50	583.1				16							
						50		22						
		103	583.7				8							
						50		12						
		+50	584.3				5							
						50		16						
		104	584.8				12							
						50		32						
		+50	585.4				23							
						50		41						
		105	586.0				21							
						50		44	505					
		+50	586.6				26							
						35		45						
		+85	587.0				44							
						15		19						
		106	587.2				26							
						50		26						
		+50	587.8				2							
						50		8						
		107	588.4				7							
						50		8						
		+50	588.9				2							
						50		17						
		108	589.6				16							
						50		18						
		+50	590.1				3							
						50		8						
		109	590.7				6							
						50		11						
		+50	591.3				6							
						50		17						
		110	591.9				12							
						50		31	221					
		+50	592.5				21							
						10.5		4						
		+60.5					0							
					Total			1206						
	+1.1548%	110+60.5	LEFT				0							
						39.5		22						
		111	591.6				30							
						50		58						
		+50	592.1				33							
						50		58						
		112	592.7				30							
						50		50						
		+50	593.3				24							
						50		34						
		113	593.9				13							
					Sub-Total			222						
		CARRIED FORWARD												
		COLUMN FOOTINGS												

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

State of Vermont — Department of Highways

WATERBURY ~ STOWE — F. A. P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 31 — 1949

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Earth and Rock Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
				CHANNEL				Excavation						
					Sub Total			222						
	1.548%	113	593.9				13							
						50		75						
		+50	594.4				68							
						50		112						
		114	595.0				53							
						14		32						
		+14	595.2				70							
						36		83						
		+50	595.6				55							
						17		26						
		+67	595.8				28							
				Total				550						
	+1.800%	121+24Lt	617.50				0							
						26		6						
		+50	618.00				13							
						50		44						
		122	618.90				35							
						50		49						
		+50	619.80				18							
						50		26						
		123	620.70				10							
						50		46						
	+1.500%	+50	621.60				40							
						50		50						
		124	622.35				14							
						50		29						
		+50	623.10				17							
						23		22						
		+73	623.45				34							
						27		40	312					
		125	623.85				45							
						50		81						
		+50	624.60				43							
						50		49						
		126	625.35				10							
						50		28						
		+50	626.10				20							
						44		28						
		+94	626.76				14							
						6		4						
		127	626.85				18							
						50		33						
		+50	627.60				18							
						50		17						
		128	628.10				0							
				Total				552						
					CARRIED FORWARD									
					COLUMN FOOTINGS									

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Earth and Rock Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		287+50Rt					0							
						50		5						
		288					5							
						50		10						
		+50					6							
						50		13						
		289					8							
						33		15						
		+33					16							
						17		10						
		+50					17							
						50		26	79					
		290					11							
						50		21						
		+50					12							
						41		14						
		+91					6							
						9		1						
		291					0							
						50		6						
		+50					6							
						50		6						
		292					0							
					Total			127						
	-5.00%	378+00Lt					0							
						50		15						
		+50	714.5				16							
						50		40						
		379	712.0				27							
						50		49						
		+50	709.5				26							
						27		24						
		+77	708.15				22							
						23		9	137					
		380	707.0				0							
						50		36						
	-3.0%	+50	704.5				39							
						50		65						
	-4.15%	381	703.0				31							
						50		65						
		+50	700.9				39							
						50		65						
		382	698.8				31							
						50		70						
		+50	696.8				45							
						50		94						
		+95	694.9											
						50		136						
		383	694.7				57							
		+22	693.78				90							
					Total			668						
					CARRIED FORWARD		Gov		3103					
					COLUMN FOOTINGS		Non Gov		1121					

GRAND TOTAL - 4224 CU YDS.

Revisions — By — Volumes — Computed by — Checked by — Vertical Curves — Computed by — Checked by — Grades — Computed by — Checked by

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

Waterbury - Stowe F. A. P. No. F-116(6)

Form Eng. 1 A EARTHWORK SHEET NO. 32 1949

SUMMARY OF BALANCES

Station	to Station	Total Excav. Earth & Rock Cu. Yds.	Rock Excav. Cu. Yds.	Embankment Cu. Yds.	Excesses Cut	Excesses Fill	Accumulative Excesses Cut	Accumulative Excesses Fill	Shaping Course of Gravel Cu. Yds.
0 + 10	5								
5	10	239	31		239		239		188
10	15	146		135		16	223		163
15	20	25		1050		1235		1012	107
20	25			586		703		1715	87
25	30	59		56		8		1723	63
30	35	37		64		40		1763	71
35	37	9		18		13		1776	45
47	50	411	14	829		584		2360	333
50	55	396	10	814		581		2941	528
55	60	371		249	72			2869	523
60	65	266		0	222			2647	304
65	70	476		298	118			2529	344
70	75	31		168		171		2700	72
75	80	25		174		184		2884	134
80	85	430	406	289	83			2801	159
85	90	291	270	1	290			2511	96
90	95	138	24	280		198		2709	308
95	100	169		1156		1218		3927	497
100	105	398		743		494		4421	242
105	110	99		529		536		4957	335
110	115	428		1314		1149		6106	561
115	120	394		859		637		6743	455
120	125	694	99	357	266			6477	583
125	130	536		605		190		6667	575
130	135	520		51	459			6208	526
135	140	533		58	463			5745	589
140	145	747	280	86	644			5101	561
145	150	361		375		89		5190	803
150	155	365		361		68		5258	871
155	160	523	20	1198		915		6173	684
160	165	395		790		553		6726	666
sub-totals		9,468	1,154	13,493					11,473

Revisions / Volumes / Vertical Curves / Grades — Computed by / Checked by

SUMMARY OF BALANCES

Station	to Station	Total Excav. Earth & Rock Cu. Yds.	Rock Excav. Cu. Yds.	Embankment Cu. Yds.	Excesses Cut	Excesses Fill	Accumulative Excesses Cut	Accumulative Excesses Fill	Shaping Course of Gravel Cu. Yds.
165	170	395		136	232			6494	481
170	175	365		1209		1086		7580	531
175	180	390	50	3035		3252		10832	424
180	185	293		1370		1351		12183	467
185	190	283		622		463		12646	390
190	195	272		0	272			12374	388
195	200	379		0	379			11995	474
200	205	602	32	7	594			11401	457
205	210	764	159	262	450			10951	492
210	215	698	130	347	282			10669	537
215	220	466		709		385		11054	549
220	225	846		75	756			10298	525
225	230	454		483		126		10424	584
230	235	853		535	211			10213	551
sub-totals		16,528	1,525	22,283					18,323

SUMMARY BY COLUMNS

Sheet No.	Col. No.	Excavation Total Cu. Yds.	Excavation Rock Cu. Yds.	Embankment Cu. Yds.	Shaping Course of Gravel Cu. Yds.

REMARKS

Total Excav. (Earth and Rock)
Total Rock Excav.
Bal. Earth Excav.

Total Planim. Fill
Factor
Fill incl. Factor
Total Excav. (Earth and Rock).
Borrow

Shaping Course

Total Excav. (Earth and Rock)
Total Fill incl. Factor
Excess cut

STATE OF VERMONT **DEPARTMENT OF HIGHWAYS**

WATERBURY - STOWE F. A. P. No. F 116(6)

Form Eng. 1 A EARTHWORK SHEET NO. 34 1949

SUMMARY OF BALANCES

REVISIONS / VOLUMES / VERTICAL CURVES / GRADES — Computed by / Checked by

Station to Station		Total Excav. Earth & Rock Cu. Yds.	Rock Excav. Cu. Yds.	Embankment Cu. Yds.	Excesses Cut	Excesses Fill	Accumulative Excesses Cut	Accumulative Excesses Fill	Shaping Course of Gravel Cu. Yds.
470	475	411		151	230		441		682
475	480	387		943		745		304	663
480	485	416		1025		814		1118	635
485	490	424	29	1494		1369		2487	657
490	495	296		215	38			2449	479
495	500	357		4	352			2097	469
500	505	357		6	350			1747	501
505	510	348	59	61	275			1472	405
510	515	252	107		252			1220	234
515	520	321	8	1858		1909		3129	385
520	525	307			307			2822	339
525	530	330			330			2492	357
530	535	333			333			2159	346
535	540	135			135			2024	141
TOTALS		49,796	3,010	43,192					50,683

SUMMARY BY COLUMNS

Sheet No.	Col. No.	Excavation Total Cu. Yds.	Excavation Rock Cu. Yds.	Embankment Cu. Yds.	Shaping Course of Gravel Cu. Yds.
12	1	1628		1975	1850
	2	2932		777	1753
13	1	1462	129	511	1273
	2	1216	59	979	1549
14	1	1235	210	383	1165
	2	1722	337	658	1546
15	1	2939	60	675	1599
	2	1304		455	1569
16	1	1567		1347	1622
	2	2402	93	1641	2062
17	1	1196	118	1837	1591
	2	2271	276	241	1486
18	1	726		448	997
	2	1590		1090	1641
19	1	1222		1146	1966
	2	888	29	2702	1394
20	1	714		10	970
	2	853	166	1899	943
21	1.	494	8	20	552
	2	515			540
22	1	164			172
Totals		49,796	3,010	43,192	50,683

REMARKS

	Govt. Partic.	Non. Govt. Part.	Total
Total Excav. (Earth and Rock)	47,462	2334	49,796
Total Rock Excav.	2,793	217	3,010
Bal. Earth Excav.	~~44,671~~ 44,662	2117	46,786
	810		
Total Planim. Fill	39.425	3,767	43,192
Factor	1.20	1.20	1.20
Fill incl. Factor	47,310	4,520	51,830
Total Excav. (Earth and Rock)		2,334	49,796
Borrow		2,186	2,034
Channel Excavation		1,121	
Net Borrow	157	1,065	
Shaping Course	48,046	2,637	50,683
Total Excav. (Earth and Rock)	47,462		
Total Fill incl. Factor	47,310		
Excess cut	152		
Channel Excavation	3,103	1,121	4224
Net Excess Cut	3,255		2,190

NON GOV.
NET BORROW 1066
LESS STONE FILL + FACTOR 1.20 (477+95) 572
GRAND NET BORROW 493

COST RECORDS

STATE OF VERMONT **DEPARTMENT OF HIGHWAYS**

Waterbury - Stowe F. A. P. No. 116 (6)

Form Eng. 1 A EARTHWORK SHEET NO. 19 50

REVISIONS

VOLUMES

Computed by Checked by

VERTICAL CURVES

Computed by Checked by

GRADES

Computed by Checked by

SHOVEL

SUMMARY OF BALANCES

STATION TO STATION		DOZER TOTAL EXCAV. EARTH & ROCK CU. YDS.	ROCK EXCAV. CU. YDS.	EMBANKMENT CU. YDS.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL		BACKHOE SHAPING COURSE OF GRAVEL CU. YDS.
46+0	62+0	369		575						246
62+0	101+50	0		558						307
101+50	117+50	393		720						98
117+50	133+50	512		1371						56
133+50	149+50	274		1741						50
149+50	165+50	734		505						287
165+50	181+50	220		1014						220
181+50	198+0	203		341						663
198+0	214+0	249		1742						512
214+0	230+0	707		1291						93
230+0	246+0	767		1066						276
246+0	262+0	551		1047						266
262+0	278+0	589		1459						380
278+0	294+0	976		2061						248
294+0	310+0	459		1311						232
310+0	326+0	457		861						41
326+0	342+0	61		1445						203
342+0	358+0	346		2037						156
358+0	374+0	0		2047						39
374+0	390+0	273		833						318
390+0	406+0	500		1581						49
406+0	422+0	363		804						393
422+0	438+0	223		1653						18
438+0	454+0	154		513						197
454+0	470+0	321		1164						252
470+0	486+0	356		817						53
486+0	502+0	245		88						739
502+0	508+0	0		0						428
		10302		30645						6820
		Less Ledge		3428						
		Net Earth Excav.			27217					
Add Ledge Previously Deducted				244						
		Total Ledge Excav.			3672					

Total Excavation 48 011 incl. Ledge

Net Total Earth Excav. 44 339

Diff.

SUMMARY OF BALANCES

STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CU. YDS.	ROCK EXCAV. CU. YDS.	EMBANKMENT CU. YDS.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL		SHAPING COURSE OF GRAVEL CU. YDS.

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CU. YDS.	EXCAVATION ROCK CU. YDS.	EMBANKMENT CU. YDS.	SHAPING COURSE OF GRAVEL CU. YDS.

REMARKS

Total Excav. (Earth and Rock)
Total Rock Excav.
Bal. Earth Excav.

Total Planim. Fill
Factor
Fill incl. Factor
Total Excav. (Earth and Rock).
Borrow

Shaping Course

Total Excav. (Earth and Rock)
Total Fill incl. Factor
Excess cut

Unit Costs

State of Vermont Department of Highways

Waterbury-Stowe Project No. 116 (6)

FORM ENG. 1A EARTHWORK SHEET NO. 1 19

DOZER SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (DOZER) AREA	Total Excavation CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Excav. (SHOVEL) AREA	CU. YDS.	~~Sub-Base of Gravel~~ Excav. (BACKHOE) AREA	CU. YDS.
		46+0												
						50								
		+50												
						50	Rt.						Lt.	
		47+0					7						6	
						50		14						13
		+50					8						8	
						50		16						25
		48+0					9						19	
						50		17						26
		+50					9						9	
						50		17			Lt			23
		49+0					9		48+98 to 50+92 Lt 56 c.y. Ledge				14	
						50		17				25		
		+50					9				13			
						50		19				23		
		50+0					12				12			
						50		28				27		
		+50					18				17			
						50		31				26		
		51+0					16				11			
						50		22				22		
		+50					8				13			
						50		18				20		
		52+0					11				9			
						50		19				16		
		+50					10				8			
						50		19				16		
		53+0					10				9			
						50		19				18		
		+50					10				10			
						50		19				22		
		54+0					10				14			
						50		17				28		
		+50					8				16			
						50		17				32		
		55+0					10				19			
						50		19				25		
		+50					11				8			
						50		19				16		
		56+0					9				9			
						50		22				23		
		+50					15				16			
						50						40		
		57+0									27			
						50						47		
		+50									24			
						50				Lt & Rt		44		
		58+0									24			
						50						37		
		+50									16			
						50						37		
		59+0									24			
						50						31	Lt	
		+50								Rt	10		9	
						50								28
		60+0											21	
						50								36
		+50											18	
						50								32
		61+0										Rt & Lt	17	
						50								35
		+50											21	
						50								28
		62+0											9	
		CARRIED FORWARD												
		COLUMN FOOTINGS						369				575		246

DOZER SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (DOZER) AREA	Total Excavation CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Excav (SHOVEL) AREA	CU. YDS.	~~Sub-Base of Gravel~~ Excav (BACKHOE) AREA	CU. YDS.
		62+0											9	
						50								17
		+50											9	
						50								19
		63+0											11	
						50						Lt & Rt		27
		+50											18	
						50								33
		64+0											18	
						50								33
		+50									Lt		18	Rt
						50					10	31	8	18
		65+0									23		11	
						50						70		18
		+50									53		8	
						50						120		15
		66+0									77		8	
						50			66+12-66+66 Lt 57 yd L			35 yd L. Deducted 59		16
		+50									25		9	
						50						22 yd L. Deducted 24		17
		67+0									25		9	
						50								16
		+50									25		8	
						50								16
		68+0									10		9	
							No Excavation							
											Lt			
		92+0									10			
						50						18		
		+50									9			
						50						18		
		93+0									10			
						50			93+0 to 94+0 Lt 95 c.y. Ledge			24		
		+50									16			
						50						21		
		94+0								Nothing on the Right	7			
						50						20		
		+50									15			
						50						25		
		95+0									12			
						50						17		
		+50									6			
						50						18		
		96+0									13			
						50						20		
		+50									9			
						50						18		
		97+0									10			
						50						25		
		+50									17			
						50						30		
		98+0									15		Lt	
						50								27
		+50											14	
						50								24
		99+0											12	
						50								11
		+50											0	
		100+0					No Excavation							
		+50												
		101+0						Lt				Lt		Lt.
		101+50	None on Right				3				6		3	
		CARRIED FORWARD												
		COLUMN FOOTINGS						0				558		307
								1/4 Total				1/2 Total		1/4 Total

Unit Costs

State of Vermont Department of Highways

Waterbury - Stowe Project No. 116 (6)

FORM ENG. 1A EARTHWORK SHEET NO. 2 1950

DOZER — SHOVEL — BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (DOZER) AREA	CU. YDS.	Rock Excavation AREA	CU. YDS.	~~Embankment~~ Excav (SHOVEL) AREA	CU. YDS.	~~Sub-Base of Gravel~~ Excav (BACKHOE) AREA	CU. YDS.
								Lt				Lt		Lt
		101+50			Nothing on the Right		3				6		3	
						50		7				16		7
		102+0					5				11		5	
						50		11				23		11
		+50					7				14		7	
						50		21				43		21
		103+0					16				32		16	
						50		25				50		25
		+50					11				22		11	
						50		17				34		17
		104+0					7				15		7	
						50		8				18		8
		+50					2				4		2	
						50		5				9		5
		105+0					3				6		3	
						50		4				7		4
		+50					1				2		1	
		106+0												
		+50												
		107+0			No Excavation									
		+50												
		108+0												
		+50												
								Rt				Lt		
		109+0					0				0			
						50		12				13		
		+50					13				14			
						50		25				30		
		110+0					14				18			
						50		23				29		
		+50					11				13			
						50		25				20		
		111+0					16				9			
						50		18				26		
		+50					10				12			
						50		19				21		
		112+0					11				11			
						50		22				23		
		+50					13				14			
						50		20				33		
		113+0					9				22			
						50		16				44		
		+50					8				26			
						50		16				47		
		114+0					9				25			
						50		14				41		
		+50					6				19			
					50	Lt		11				30		
		115+0					6			Rt	13			
						50		12				31		
		+50					7				20			
						50		14				32		
		116+0					8				15			
						50		16				29		
		+50					9				16			
						50		16				37		
		117+0					8				24			
						50		16				34		
		+50					9				13			
					CARRIED FORWARD									
					COLUMN FOOTINGS			393				720		98

DOZER — SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (DOZER) AREA	CU. YDS.	Rock Excavation AREA	CU. YDS.	~~Embankment~~ Excav (SHOVEL) AREA	CU. YDS.	~~Sub-Base of Gravel~~ Excav (BACKHOE) AREA	CU. YDS.
		117+50					9				13			
					50 Lt.			17				31		
		118+0					9				20			
					50			18				32		
		+50					10				15			Lt
						50				Rt		27		18
		119+0									14		9	
						50						27		19
		+50									15		11	
						50						25		19
		120+0									12		9	
						50						94		
		+50								Lt & Rt	81			
						50						120		
		121+0					Lt				49			
						50		36				39		
		+50					8				24			
						50		18				42		
		122+0					11				21			
						50		18				41		
		+50					8				23			
						50		19				40		
		123+0					13				20			
						50		23				39		
		+50					12				22			
						50		19				39		
		124+0					9				20			
						50		17				42		
		+50					9				25			
						50		19				42		
		125+0					11				20			
						50		20				35		
		+50					11				18			
						50		22				33		
		126+0					13				18			
						50		22				44		
		+50					11			Rt	29			
						50		23				39		
		127+0					14				14			
						50		21				38		
		+50					9				27			
						50		16				42		
		128+0					8				18			
						50		16				41		
		+50					9				26			
						50		20				48		
		129+0					13				26			
						50		20				38		
		+50					9				15			
						50		20				32		
		130+0					13				20			
						50		25				37		
		+50					14				20			
						50		26				28		
		131+0					14				10			
						50		28				31		
		+50					16				23			
						50		29				44		
		132+0					15				25			
						50						40		
		+50									32			
						50						56		
		133+0									29			
						50				Lt & Rt		65		
		+50									41			
						50								
					CARRIED FORWARD									
					COLUMN FOOTINGS			512				1371		56

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

Unit Costs ~~DOZER~~

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 3 — 19 50

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	DOZER Total Excavation Earth and Rock AREA	DOZER Total Excavation Earth and Rock CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	SHOVEL ~~Embankment~~ Excav AREA	SHOVEL ~~Embankment~~ Excav CU. YDS.	BACKHOE ~~Sub-Base of Gravel~~ Excav AREA	BACKHOE ~~Sub-Base of Gravel~~ Excav CU. YDS.
		133+50									41			
										Lt & Rt		73		
		134+0									38			
												69		Lt
		+50									25 (36)		11	
												44		23
		135+0								Rt.	22		14	
												44		27
		+50									25		15	
												75		
		136+0									41			
												74		
		+50									39			
												70		
		137+0									37			
												69		
		+50									38			
												66		
		138+0									33			
												57		
		+50									29			
												51		
		139+0									26			
										Lt & Rt.		46		
		+50									24			
												47		
		140+0									27			
												66		
		+50									44			
												120		
		141+0									86			
												155		
		+50									81			
												115		
		142+0									43			
												73		
		+50									36			
												70		
		143+0						Lt			40			
								27				34		
		+50					11				15			
								20				32		
		144+0					11				20			
								19				33		
		+50					9				16			
								19				30		
		145+0					12				16			
								23				34		
		+50					13				21			
								21				38		
		146+0					10				20			
								19				31		
		+50					10				14			
								19				22		
		147+0					10			Rt	10			
								19				18		
		+50					11				9			
								20				17		
		148+0					11				9			
								25				22		
		+50					16				15			
								24				24		
		149+0					10				11			
								19				22		
		+50					11				13			
		CARRIED FORWARD												
		COLUMN FOOTINGS						274				1741		50

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	DOZER Total Excavation Earth and Rock AREA	DOZER Total Excavation Earth and Rock CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	SHOVEL Embankment AREA	SHOVEL Embankment CU. YDS.	BACKHOE Sub-Base of Gravel AREA	BACKHOE Sub-Base of Gravel CU. YDS.
								Lt				Rt		
		149+50					11				15			
								19				22		
		150+0					9				11			
								18				24		
		+50					10				15			
								23				26		
		151+0					15				13			
								23				21		
		+50					10				10			
								19				22		
		152+0					11				14			
								19				24		
		+50					10				12			
								19				21		
		153+0					11				11			
								20				21		
		+50					11				12			
								19				21		
		154+0					10				11			
								19				19		
		+50					10				10			Rt
								21						19
		155+0					13						11	
								23						19
		+50					12						10	
								19						15
		156+0					9						6	
								18				Rt.		15
		+50					10						10	
								19				38		
		157+0					10				31			
								22				73		
		+50					14				48			
								27				61		
		158+0					15				18			
								32				26		
		+50					20				10			Rt
								36						19
		159+0					19						10	
								31						22
		+50					15						14	
								24						21
		160+0					11						9	
								24						17
		+50					15						9	
								27						18
		161+0					14						10	
								31						19
		+50					20						10	
								28						19
		162+0					10						10	
								19						19
		+50					10						10	
								23						19
		163+0					15						10	
								26						21
		+50					13						13	
								21						25
		164+0					10					Rt	15	
								20				28		
		+50					12				15			
								18				29		
		165+0					7				16			
								27				29		
		+50					22				15			
		CARRIED FORWARD												
		COLUMN FOOTINGS						734				505		287

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

Unit Costs

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 4 — 19 50

DOZER — SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ AREA	~~Embankment~~ CU. YDS.	~~Sub-Base~~ of Gravel AREA	~~Sub-Base~~ of Gravel CU. YDS.
												Rt		
		165+50					22				15			
								31				28		
		166+0					12				15			
								22				27		
		+50					12				14		Lt.	
												27		23
		167+0									15		13	
												28		21
		+50									15		10	
												25		20
		168+0									12		12	
												23		20
		+50									13		10	
												44		20
		169+0					Lt.				34		12	
								22				47		
		+50					12				17			
								19				30		
		170+0					9				15 Rt + 11 Lt			
												47		
		+50									27			
												55		
		171+0									32			
												51		
		+50									23			
												42		
		172+0									22			
												49		
		+50									31			
												48		
		173+0									21			
												37		
		+50									19			
												35		
		174+0									19			
												33		
		+50									17			
												35		
		175+0									21			
												49		
		+50								175+23 – 176+62 36 c.y. ledge	32			
												62		
		176+0									35			
												61		
		+50									31			
												46		
		177+0									12		Rt + Lt.	
														35
		+50											19	
														35
		178+0											19	
														39
		+50					Rt				Lt.		23	
								19				19		
		179+0					10				10			
								19				18		
		+50					10				9			
								20				20		
		180+0					12				13			
								22				20		
		+50					12				9			
								23				8		
		181+0					13				0		Lt	
								23						7
		+50					12				0		8	
		CARRIED FORWARD												
		COLUMN FOOTINGS						220				1014		220

DOZER — SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA	~~Embankment~~ Cut CU. YDS.	Sub-Base of Gravel Cut AREA	Sub-Base of Gravel Cut CU. YDS.
								22						17
		182+0					12						10	
								22						19
		+50					12						10	
								23						19
		183+0					13						10	
								21						17
		+50					10						8	
								17						13
		184+0					8						6	
								13						29
		+50					6				Lt		25	
								13				41		
		185+0					8				19			
								17				41		
		+50					10				25			
								19				48		
		186+0					10				27		Lt	
								17						
		+50					8						0	0
								19						
		187+0					12				Rt.		0	0
												22		
		+50									12		0	0
												25		7
		188+0									15		8	
												24		15
		+50									11		8	
												19		15
		189+0									10		8	
												19		14
		+50									10		7	
												19		13
		190+0									10		7	
												19		13
		+50									11		7	
												18		13
		191+0									8		7	
												15		13
		+50									8		7	
												14		14
		192+0									7		8	
												17		15
		+50									12		8	Rt + Lt.
														32
		193+0											15	
														26
		+50											13	
														29
		194+0											18	
														33
		+50											18	
														37
		195+0											22	
														40
		+50											21	
														42
		196+0											24	
														44
		+50											23	
														44
		197+0											24	
														45
		+50											25	
														45
		198+0											24	
		CARRIED FORWARD												
		COLUMN FOOTINGS						203				341		663

State of Vermont Department of Highways

Waterbury - Stowe Project No. 116(6)

FORM ENG. 1A EARTHWORK SHEET NO. 5 1950

DOZER — SHOVEL — BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (DOZER) AREA	CU. YDS.	Rock Excavation AREA	CU. YDS.	~~Embankment~~ Cut (SHOVEL) AREA	CU. YDS.	Sub-Base of Gravel Cut (BACKHOE) AREA	CU. YDS.
													Lt & Rt	
		198+0											24	
						50								41
		+50											20	
						50								36
		199+0											19	
						50								32
		+50											16	
						50								33
		200+0											20	
						50								37
		+50											20	
						50								36
		201+0											19	
						50								38
		+50											22	
						50								44
		202+0											25	
						50								51
		+50											30	
						50								48
		203+0										Rt	22	Lt
						50						19		25
		+50									8		17	
						50						57		25
		204+0									54		10	
						50						105		17
		+50									59		8	
						50						164		16
		205+0									118		9	
						50						183		17
		+50									80		9	
						50						144		16
		206+0						Lt			75		8	
						50						102		
		+50					9				35			
						50		17				54		
		207+0					9				23			
						50		14				31		
		+50					6				10			
						50		13				46		
		208+0					8				40			
						50		16				69		
		+50					9				35			
						50		16				65		
		209+0					8				35			
						50		16				89		
		+50					9				61			
						50		19				107		
		210+0					12				55			
						50		21				102		
		+50					11				55			
						50		18				76		
		211+0					8				27			
						50		15				50		
		+50					8				27			
						50		15				45		
		212+0					8				22			
						50		14				53		
		+50					7				35			
						50		14				68		
		213+0					8				38			
						50		19				60		
		+50					12				27			
						50		22				53		
		214+0					12				30			
		CARRIED FORWARD												
		COLUMN FOOTINGS						249				1742		512

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (DOZER) AREA	CU. YDS.	Rock Excavation AREA	CU. YDS.	~~Embankment~~ Cut (SHOVEL) AREA	CU. YDS.	Sub-Base of Gravel Cut (BACKHOE) AREA	CU. YDS.
								Lt				Rt.		
		214+0					12				30			
						50		20				54		
		+50					10				28			
						50		19				49		
		215+0					10				25			
						50		19				37		
		+50					11				15			
						50		20				26		
		216+0					11				13			
						50		19				19		
		+50					10				8			
						50		19				16		
		217+0					10				9			
						50		19				19		
		+50					10				11			
						50		17				19		
		218+0					8				9			
						50		18				16		
		+50					11				8			
						50		19				28		
		219+0					10				22			
						50		19				57		
		+50					10				40			
						50		21				81		
		220+0					13				48			
						50		25				113		
		+50					14				74			
						50		31				133		
		221+0					19				70			
						50		32				116		
		+50					16				55			
						50		28				68		
		222+0					14				18			
						50		25				26		
		+50					13				10			
						50		21				23		
		223+0					10				15			
						50		22				26		
		+50					14				13			
						50		22				26		
		224+0					10				15			
						50		20				65		
		+50					12				55			
						50		20				88		
		225+0					10				40			
						50		21				69		
		+50					13				35			
						50		22				46		
		226+0					11				15			
						50		20				24		
		+50					11				11			Rt
						50		22						20
		227+0					13						11	
						50		22						19
		+50					11						9	
						50		22						18
		228+0					13						10	
						50		25						18
		+50					14						9	
						50		26				Rt		18
		229+0					14						10	
						50		26				23		
		+50					15				15			
						50		26				24		
		230+0					13				11			
		CARRIED FORWARD												
		COLUMN FOOTINGS						707				1291		93

REVISIONS — By

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Waterbury - Stowe — Project No. 116(2)

FORM ENG. 1A — EARTHWORK SHEET NO. 6 — 1950

V. C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (Cut) — DOZER AREA	CU. YDS.	Rock Excavation AREA	CU. YDS.	Embankment (Cut) — SHOVEL BACKHOE AREA	CU. YDS.	Sub-Base of Gravel (Fill) AREA	CU. YDS.
							Lt.				Rt.			
		230+0					13				11			
		+50					10	21			30	38		
		231+0					12	20			62	85		
		+50					15	25			100	150		
		232+0					13	26			62	150		
		+50					12	23			25	81		
		233+0					13	23			18	40		
		+50					11	22			21	36		
		234+0					11	20			25	43		
		+50					15	24			23	44		
		235+0					15	28			18	38		
		+50					16	29			13	29		
		236+0					15	29			19	30		
		+50					15	28			20	36		
		237+0					13	26			25	42		
		+50					11	22			31	52		
		238+0					11	20			39	65		
		+50					15	24			15	50	Rt.	
		239+0					13	26					14	27
		+50					13	24					14	26
		240+0					8	19					8	20
		+50					13	19					10	17
		241+0					15	26					9	18
		+50					14	27					10	18
		242+0					15	27					15	23
		+50					15	28					20	32
		243+0					15	28					12	30
		+50					12	25					9	19
		244+0					11	21					15	22
		+50					12	21			Rt.		11	24
		245+0					13	23			9	19		
		+50					11	22			10	18		
		246+0					12	21			12	20		
		CARRIED FORWARD												
		COLUMN FOOTINGS						767				1066		276

V. C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock (Cut) — DOZER AREA	CU. YDS.	Rock Excavation AREA	CU. YDS.	Embankment (Cut) — SHOVEL BACKHOE AREA	CU. YDS.	Sub-Base of Gravel (Fill) AREA	CU. YDS.
								Lt.			Rt.			
		246+0					12				12			
		+50					10	20			20	30		
		247+0					10	19			40	56		
		+50					10	19			10	46		
		248+0					12	20			14	22		
		+50					10	20			9	21		
		249+0					11	19			23	18 Rt&Lt		
		+50									34	53		
		250+0									33	62		
		+50									39	67		
		251+0									53	85		
		+50									66	110		
		252+0									56	113		
		+50									33	92		
		253+0									22	51		
		+50									24	43		
		254+0									27	47		
		+50									57	78		Rt&Lt
		255+0											19	37
		+50											23	39
		256+0											28	47
		+50											27	51
		257+0					10	Lt.					20	44 Rt.
		+50					14	22					14	22
		258+0					27	24 Rt&Lt					14	26
		+50					25	48						
		259+0					25	46						
		+50					30	51						
		260+0					39	64						
		+50					34	68						
		261+0					27	56 Lt.			Rt.			
		+50					15	27			15	28		
		262+0					15	28			12	25		
		CARRIED FORWARD												
		COLUMN FOOTINGS						551				1047		266

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State of Vermont Department of Highways

Waterbury - Stowe Project No. 116(6)

FORM ENG. 1A EARTHWORK SHEET NO. 7 1950

DOZER SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Cut Earth and Rock (DOZER) AREA	CU. YDS. Lt.	Rock Excavation AREA	CU. YDS.	Embankment Cut (SHOVEL) AREA Rt.	CU. YDS.	Sub-Base Cut of Gravel (BACKHOE) AREA	CU. YDS.
		262+0					16				12			
								28				34		
		+50					14				25			
								37				60		
		263+0					15				40			
								22				74		
		+50					9				40			
								17				77		
		264+0					9				43			
								18				95		
		+50					10				60			
								18				131		
		265+0					9				82			
								25				154		
		+50					18				84			
								31				147		
		266+0					16				75	Rt&Lt		
												180		
		+50									103			
												185		
		267+0									97			
												134		
		+50									48			
												61		
		268+0									18	Lt	Rt.	
												17		17
		+50									9		9	
												23		19
		269+0									16		11	
												25		22
		+50									11		13	
												21		41
		270+0									12		31	
												20		58
		+50									10		32	
												21		43
		271+0						Lt			13		14	
								22						22
		+50					11						10	
								19						19
		272+0					9						11	
								17						19
		+50					9						9	
								13						18
		273+0					5						10	
								16						21
		+50					12						13	
								19						22
		274+0					8						11	
								15						20
		+50					8						11	
								16						19
		275+0					9						10	
								19						20
		+50					12	Rt&Lt					12	
								44						
		276+0					23							
								42						
		+50					22							
								39						
		277+0					20							
								51						
		+50					35							
								61						
		278+0					31							
CARRIED FORWARD														
COLUMN FOOTINGS								589				1459		380

DOZER SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Cut Earth and Rock (DOZER) AREA	CU. YDS. Rt&Lt	Rock Excavation AREA	CU. YDS.	Embankment Cut (SHOVEL) AREA	CU. YDS.	Sub-Base Cut of Gravel (BACKHOE) AREA	CU. YDS.
		278+0					31							
								54						
		+50					27							
								54						
		279+0					31							
								44						
		+50					16							
								39						
		280+0					26	Rt				Lt		
								22				36		
		+50					11				26		Rt	
												41		24
		281+0									18		15	
												32		27
		+50									17		14	
												127		22
		282+0									120		10	
												212		19
		+50									109		10	
												215		19
		283+0									123		11	
												219		18
		+50									113		8	
												294		15
		284+0									204		8	
												281		16
		+50									100		9	
												171		17
		285+0									85		9	
												129		18
		+50									54		10	
												106		18
		286+0									60		9	
												103		16
		+50									51		8	
												95		19
		287+0					65	Rt&Lt			52		13	
								80						
		+50					21							
								45						
		288+0					28							
								53						
		+50					29							
								57						
		289+0					33							
								67						
		+50					39							
								71						
		290+0					38							
								64						
		+50					31							
								49						
		291+0					22							
								44						
		+50					26							
								44						
		292+0					21							
								43						
		+50					24							
								48						
		293+0					28							
								50						
		+50					26							
								48						
		294+0					26							
CARRIED FORWARD														
COLUMN FOOTINGS								976				2061		248

REVISIONS By

VOLUMES Computed by Checked by

VERTICAL CURVES Computed by Checked by

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State of Vermont Department of Highways

Waterbury - Stowe Project No. 116-(6)

FORM ENG. 1A EARTHWORK SHEET NO. 8 1950

REVISIONS | By | VOLUMES | Computed by | Checked by | VERTICAL CURVES | Computed by | Checked by | GRADES | Computed by | Checked by

DOZER — SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation ~~Earth and Rock~~ Cut AREA Rt	Total Excavation Cut CU. YDS. Lt	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA	~~Embankment~~ Cut CU. YDS.	~~Sub-Base of Gravel~~ Cut AREA	~~Sub-Base of Gravel~~ Cut CU. YDS.
		294+0					26							
								53						
		+50					32					Lt	Rt.	
												42		17
		295+0									30		9	
												58		17
		+50									33		9	
												66		20
		296+0									38		13	
												84		21
		+50									53		10	
												93		19
		297+0									47		10	
												69		19
		+50									27		10	
												42		19
		298+0						Lt.			18		10	
								37						19
		+50					22	Rt/Lt					10	
								57						
		299+0					30							
								50						
		+50					24	Rt				Lt		
								21				13		
		300+0					11				7			
								19				16		
		+50					10				10			
								18				18		
		301+0					9				9			
								19				17		
		+50					11				9			
								20				27		
		302+0					11				20	Rt/Lt		
												54		
		+50									27			
												48		
		303+0						Lt			25	Rt		
								23				30		
		+50					13				20			
								19				33		
		304+0					7				16			
								17				28		
		+50					9				14			
								21				41		
		305+0					14				30			
								19				65		
		+50					6				40			
								15				70		
		306+0					10				36			
								19				68		
		+50					10				37		rt.	
								17						46
		307+0					8						13	
								15						35
		+50					8				33	Rt/Lt	25	
												72		
		308+0									45			
												69		
		+50									30			
												58		
		309+0									33			
												66		
		+50									38			
												64		
		310+0									31			
		CARRIED FORWARD												
		COLUMN FOOTINGS						459				1311		232

REVISIONS | By | VOLUMES | Computed by | Checked by | VERTICAL CURVES | Computed by | Checked by | GRADES | Computed by | Checked by

DOZER — ~~SHOVEL~~ SHOVEL BACKHOE

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation ~~Earth and Rock~~ Cut AREA	Total Excavation Cut CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA Rt	~~Embankment~~ Cut CU. YDS. Lt	~~Sub-Base of Gravel~~ Cut AREA	~~Sub-Base of Gravel~~ Cut CU. YDS.
		310+0									31			
												51		
		+50									24			
												44		
		311+0									23			
												46		
		+50									27			
												63		
		312+0					17	Lt			41	Rt		
								29				39		
		+50					14				18			
								23				31		
		313+0					11				15			
								18				23		
		+50					8				10			
								13				21		
		314+0					6				13			
								14				19		
		+50					9				8			
								18				13		
		315+0					10				6			
								18				13		
		+50					9				8			
								16				15		
		316+0					8				8			
								16				15		
		+50					9				8			
								17				11		
		317+0					9				4			
								17				11		
		+50					9				8			
								18				15		
		318+0					10				8			
								18				15		
		+50					9				8			
								17				13		
		319+0					9				6			
								19				12		
		+50					12				7			
								21				14		
		320+0					11				8			
								18				13		
		+50					8				6			
								16				10		
		321+0					9				5			
								20				10		
		+50					13				6			
								20				40		
		322+0					9				37			
								19				66		
		+50					11				34			
								20				74		
		323+0					11				46			
								18				52		
		+50					8				10			
								15				21		
		324+0					8				13			
								19				24		
		+50					13				13			Lt
												26		18
		325+0									15		6	
												28		11
		+50									15		6	
												23		12
		326+0									10		7	
		CARRIED FORWARD												
		COLUMN FOOTINGS						457				861		41

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116-(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 9 — 1950

DOZER — SHOVEL BACKHOE

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

V. C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation ~~Earth and Rock~~ Cut AREA	Total Excavation CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA Rt.	~~Embankment~~ Cut CU. YDS.	~~Sub-Base of Gravel~~ Cut AREA	~~Sub-Base of Gravel~~ Cut CU. YDS. Lt
		326+0									10		7	
												19		15
		+50									10		9	
												58		15
		327+0									53		7	
												111		14
		+50									67		8	
												85		15
		328+0									25		8	
												31		13
		+50									9		6	
												16		13
		329+0									8		8	
												15		15
		+50									8		8	
												19		13
		330+0									13		6	
												23		11
		+50									12		6	
												33		13
		331+0									24		8	
												30		12
		+50									8		5	
												27		10
		332+0									21		6	
												55		11
		+50									38		6	
												56		11
		333+0									22		6	
												34		11
		+50									15		6	
												25		11
		334+0						Lt			12		6	
								12				21		
		+50					7				11			
								15				20		
		335+0					9				11			
								18				20		
		+50					10				11			
								16				22		
		336+0					7				15 20	21 Lt		
												49		
		+50									33			
												52		
		337+0									23			
												70		
		+50									53			
												79		
		338+0									32			
												90		
		+50									65			
												94		
		339+0									37			
												57		
		+50									25			
												47		
		340+0									26			
												46		
		+50									24			
												44		
		341+0									24			
												43		
		+50									22			
												54		
		342+0									36			
		CARRIED FORWARD												
		COLUMN FOOTINGS						61				1445		203

DOZER — SHOVEL BACKHOE

V. C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation ~~Earth and Rock~~ Cut AREA	Total Excavation CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA Rt.	~~Embankment~~ Cut CU. YDS. Lt	~~Sub-Base of Gravel~~ Cut AREA	~~Sub-Base of Gravel~~ Cut CU. YDS.
		342+0									36			
												77		
		+50									47			
												81		
		343+0									40			
												79		
		+50									45			
												76		
		344+0									37			
												69		
		+50									38			
												68		
		345+0									35			
												76		
		+50									47			
												64		
		346+0									22			
												53		
		+50					Rt.				35	Lt		
								23				44		
		347+0					15				22			
								23				38		
		+50					10				19			
								19				31		
		348+0					11				14			
								18				60		
		+50					8				51			
								17				94		
		349+0					10				50			
								19				58		
		+50					10				13			
								18				19		
		350+0					9				8			
								16				23		
		+50					8				17			
								16				43		
		351+0					9				29			
								17				32		
		+50					9				6			Lt
								15						11
		352+0					7						6	
								17						11
		+50					11						6	
								21						12
		353+0					12						7	
								19						11
		+50					9						5	
								18						12
		354+0					10						8	
								16						14
		+50					7						7	
								16						13
		355+0					10						7	
								19						14
		+50					11						8	
								19						58
		356+0					9					Lt	55	
												213		
		+50									175			
												270		
		357+0									117			
												233		
		+50									135			
												236		
		358+0									120			
		CARRIED FORWARD												
		COLUMN FOOTINGS						346				2037		156

State of Vermont Department of Highways

Waterbury - Stowe Project No. 116(6)

FORM ENG. 1A EARTHWORK SHEET NO. 10 1950

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

DOZER SHOVEL BACKHOE

		PROFILE					Total Excavation Earth and Rock		Rock Excavation		Embankment Cut		Sub-Base of Gravel	
V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS. Lt	AREA	CU. YDS.
		358+0									120			
												306		
		+50									210			
												306		
		359+0									120			
												139		
		+50									63	Rt. Lt		
												100		
		360+0									45			
												75		
		+50									36			
												54		
		361+0									22			
												40		
		+50									21			
												39		
		362+0									21			
												43		
		+50									25			
												55		
		363+0									34			
												108		
		+50									83			
												100		
		364+0									25			
												43		
		+50									21			
												40		
		365+0									22			
												45		
		+50									27			
												44		
		366+0									21			
												38		
		+50									20			
												38		
		367+0									21			
												32		
		+50									14			
												31		
		368+0									20			
												31		
		+50									13			
												29		
		369+0									18			
												33		
		+50									18			
												34		
		370+0									19			
												32		
		+50									16			
												30		
		371+0									16			
												30		
		+50									16			
												33		
		372+0									20			
												37		
		+50									20			
												41		
		373+0									24	Rt		Lt
												22		20
		+50									12		10	
												19		19
		374+0									8		10	
		CARRIED FORWARD												
		COLUMN FOOTINGS						0				2047		39

DOZER SHOVEL BACKHOE

		PROFILE					Total Excavation Earth and Rock		Rock Excavation		Embankment Cut		Sub-Base of Gravel	
V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA Rt	CU. YDS.	AREA	CU. YDS. Lt
		374+0									8		10	
												19		20
		+50									12		12	
												20		28
		375+0									28	Rt. Lt	18	
												45		
		+50									21			
												33		
		376+0									15			
												33		
		+50									21			
												38		
		377+0									20			
												35		
		+50									18			
												38		
		378+0									23			
												56		
		+50									39			
												68		
		379+0									34			
												94		
		+50									68			
												89		
		380+0									28			
												50		
		+50									26			
												49		
		381+0									27			
												47		
		+50									24			
												36		
		382+0									15			
												38		
		+50									26	Lt	Rt	
												20		19
		383+0						Lt			9		8	
								20						17
		+50					13						10	
								21						19
		384+0					10						10	
								16						29
		+50					7						21	
								20						48
		385+0					13						31	
								24						38
		+50					11						10	
								22						19
		386+0					13						10	
								24						19
		+50					13						10	
								20						19
		387+0					9						10	
								17						19
		+50					9						10	
								19						17
		388+0					12						8	
								20						16
		+50					10						9	
								19						17
		389+0					10						9	
								17						22
		+50					8				Rt.		15	
								14				25		
		390+0					7				12			
		CARRIED FORWARD												
		COLUMN FOOTINGS						273				833		318

State of Vermont Department of Highways

Waterbury-Stowe Project No. 116-(6)

FORM ENG. 1A EARTHWORK SHEET NO. 11 1950

DOZER SHOVEL BACKHOE DOZER SHOVEL BACKHOE

V. C.	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	~~Total Excavation~~ Cut Earth and Rock AREA	Cut CU. YDS. Lt	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA Rt.	Cut CU. YDS.	~~Sub-Base~~ Cut of Gravel AREA	Cut CU. YDS.
	90+0					7				12			
							15				22		
	+50					9				12			
							18				22		
						10				12			
							19				30		
						10				30			
							23				78		
	39					15				54			
							30				98		
						17				52			
							31				92		
	3+0					16				47			
							23				65		
	+50					9				23			
							18				39		
	394+0					10				19			
							19				26		
	+50					11				9			
							19				25		
	395+0					10				18			
							19				31		
	+50					10				16			
							19				35		
	396+0					10				22			
							16				38		
	+50					7				19			
							14				32		
	397+0					8				16			
							14				24		
	+50					7				10			Lt
											24		
	398+0									16		8	
											25		14
	+50									11		7	
											29		14
	399+0						Lt			21		8	
											31		
	+50					8				12			
							17				22		
	400+0					10				12			
							17				24		
	+50					8				14			
							14				31		
	401+0					7				20			
							14				110		
	+50					8				99			
							15				169		
	402+0					8				83			
							14				93		
	+50					7				17			
							16				31		
	403+0					10				17			
							18				39		
	+50					9				25			
							19				47		
	404+0					11				26			
							19				56		
	+50					10				34			
							19				69		
	405+0					10				41			
							21				70		
	+50					13				35			Lt
											54		21
	406+0									23		10	

REVISIONS

By

VOLUMES

Computed by

Checked by

VERTICAL CURVES

Computed by

Checked by

GRADES

by

by

V. C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	~~Total Excavation~~ Cut Earth and Rock AREA	Cut CU. YDS.	Rock Excavation AREA	Rock Excavation CU. YDS.	~~Embankment~~ Cut AREA Rt	Cut CU. YDS.	~~Sub-Base~~ Cut of Gravel AREA	Cut CU. YDS. Lt
		406+0									23		10	
												50		19
		+50									31		10	
												50		19
		407+0						Lt			23		11	
								19				34		
		+50					9				14			
								17				26		
		408+0					9				14			
								17				36		
		+50					9				25			Lt
												60		18
		409+0									40		10	
												73		22
		+50									39		14	
												59		36
		410+0						Lt			25		25	
								34				33		
		+50					12				11			
								16				17		
		411+0					5				7			
								11				16		
		+50					7				10			
								12				19		
		412+0					6				11			
								12				22		
		+50					7				13			
								12				19		
		413+0					6				8			
								11				19		
		+50					6				13			
								9				20		
		414+0					4				9			
								11				19		
		+50					8				11			
								12				24		
		415+0					11				15			
												26		
		+50											2[illegible]	Lt
		416+0											33	
		+50											20	
		417+0					9	Lt					19	
								17						17
		+50					9						9	
								16						16
		418+0					8						8	
								16						16
		+50					9				Rt		9	
								16				21		
		419+0					8				14			
								17				31		
		+50					10				20			
								18				61		
		420+0					9				46			
								18				69		
		+50					10				29		Rt.	
								17						34
		421+0					8						8	
								15						1[illegible]
		+50					8						9	
								14						
		422+0					7						10	

FINALS • NON-GOVERNMENT & STOWE VILLAGE

EARTHWORK SHEET

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	F-116(6)			

PROFILE							TOTAL EXCAVATION EARTH AND ROCK		Rock		EMBANKMENT		BASE	
V.C.	% GRADE	STATION	ELEVATION ON GRADES	ELEVATION ON V CURVES	CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		9 + 00					43				C- SB-	150 130	37	
						50		80						68
		+ 50					43						37	
						50		70						62
		10 + 00					33						30	
						50		37						34
		+ 50					7						7	
						50		14						12
		11 + 00					8						6	
						50		14						12
		+ 50					7				C- SB	176 181	7	
						50		12						11
		12 + 00					6						5	
						50		10						12
		+ 50					5						8	
						50		10						12
		13 + 00					6						5	
						50		17						14
		+ 50					12						10	
						50		21						19
		14 + 00					11						11	
						50		20						25
		+ 50					11						16	
						50		21						30
		15 + 00					12						16	
						50		12						15
		+ 50					1						0	
						50		1						8
		16 + 00					0						9	
						50					C- SB-	15 109		15
		+ 50											7	
						50								11
		17 + 00											5	
						50								6
		+ 50					0						2	
						50		1						2
		18 + 00					1						0	
						50		1						4
		+ 50					0						4	
						50								10
		19 + 00											7	
						50								15
		+ 50											9	
						50								23
		20 + 00											16	
						50								21
		+ 50											7	
						50								10
		21 + 00											4	
						50					C- SB-	0 110		11
		+ 50											8	
						50								13
		22 + 00											6	
						50								13
		+ 50											8	
						50								16
		23 + 00											9	
						50								11
		+ 50											3	
						50								6
		24 + 00											4	
						50								6
		+ 50											3	
						50								3
		25 + 00											0	
						50								
		+ 50												
						50								
		26 + 00												
						50								
		+ 50												
						50					C- SB-	0 20		
		27 + 00											0	
						50								2
		+ 50											2	
						50								4
		28 + 00											2	
						50								3
		+ 50											1	
						50								2
		29 + 00											1	
						50								3
		+ 50											2	
						50								6
		30 + 00											4	
						50								6
		+ 50											3	
						40								5
		+ 90											4	
						10								2
		31 + 00											5	
		CARRIED FORWARD						0						13
		COLUMN FOOTINGS						341						550

PROFILE							TOTAL EXCAVATION EARTH AND ROCK		Rock		EMBANKMENT		BASE	
V.C.	% GRADE	STATION	ELEVATION ON GRADES	ELEVATION ON V CURVES	CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		31 + 00											5	
						50								7
		+ 50											3	
			Sta-9+00-37+00			50								5
		32 + 00	Total C-341 cy								C- SB-	0 60	2	
			SB-642 cy			25								3
		+ 75											4	
			20 cy drives			25								3
		33 + 00	total SB 662										2	
						50								7
		+ 50											6	
						50								9
		34 + 00											4	
						50								7
		+ 50											4	
						25								3
		+ 75											2	
						25								3
		35 + 00											4	
						30								4
		+ 30											4	
						20								5
		+ 50											10	
						50					C- SB-	0 32		13
		36 + 00											4	
						50								6
		+ 50											3	
						37								3
		+ 87											1	
						13								1
		37 + 00	Waterbury - Non Government - Stops										4	
						42								6
		+ 42											4	
			Total- C-0			8					C- SB-	0 17		1
		+ 50	SB-17										3	
						50								6
		38 + 00											4	
						30								4
		+ 30											3	
			Begin - Non Government - F-116(6)											
		508 + 00					15						22	
						50		48						39
		+ 50					37		0				20	
						50		56		11				28
		509 + 00					23		12				10	
			Sta-508+00-516+50			50		38		16				20
		+ 50	Total C-590 cy				18		5				12	
			R-157 cy			50		69		32				24
		510 + 00	SB-647 cy				57		30				14	
						50		90		51				31
		+ 50					40		25				19	
						50		54		26				33
		511 + 00					18		3				17	
						50		25		3				32
		+ 50					9		0				18	
						50		8						21
		512 + 00					0						5	
						50		0						7
		+ 50					0						3	
						50		9						17
		513 + 00					10						15	
						50		19						37
		+ 50					10						25	
						50		21						46
		514 + 00					13						25	
						50		23						39
		+ 50					12		0				17	
						50		31		9				27
		515 + 00					21		10				12	
						50		39		9				55
		+ 50					21		0				47	
						50		34						96
		516 + 00					16						57	
						50		26						95
		+ 50	End - Non Government				12						46	
			Begin Stowe Village			50		30						102
		517 + 00					20						64	
						50		32						101
		+ 50					15						45	
						50		40						86
		518 + 00					28						48	
						50		44						72
		+ 50					20						30	
						50		37						49
		519 + 00					20						23	
		CARRIED FORWARD						183		0				410
		COLUMN FOOTINGS												

PROFILE							TOTAL EXCAVATION EARTH AND ROCK		Rock		EMBANKMENT		BASE	
V.C.	% GRADE	STATION	ELEVATION ON GRADES	ELEVATION ON V CURVES	CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		519 + 00					20		0				23	
						50		43		9	C- R- SB-	272 7 500		43
		+ 50					26		8				23	
						50		46						47
		520 + 00					24						28	
						50		41						44
		+ 50					20						19	
						50		42						47
		521 + 00					25						32	
						50		44			C- R- SB-	441 39 435		46
		+ 50					22						18	
						50		47						49
		522 + 00					29		0				35	
						50		65		16				58
		+ 50					41		17				28	
						50		63		19				48
		523 + 00					27		4				24	
						50		42		4				39
		+ 50					18		0				18	
						50		32						34
		524 + 00					17						19	
						50		32						35
		+ 50					18						19	
						50		33						35
		525 + 00					18						19	
						50		33						36
		+ 50					18						20	
						50		33						35
		526 + 00					18						13	
						50		33			C- R- SB-	365 0 345		36
		+ 50					18						21	
						50		35						37
		527 + 00					20						19	
						50		35						35
		+ 50					18						19	
						50		39						34
		528 + 00					22						18	
						50		38						33
		+ 50					19						18	
						50		38						33
		529 + 00					22						18	
						50		40						33
		+ 50					21						18	
						50		43						33
		530 + 00					25						18	
						25		21						19
		+ 25					21						13	
						50		38						34
		+ 75					20						19	
						25		19						19
		531 + 00					20						22	
						50		48			C- R- SB-	407 0 350		38
		+ 50					32						19	
						50		49						35
		532 + 00					19						19	
						50		38						36
		+ 50					22						18	
						50		41						33
		533 + 00					22						18	
						50		41						33
		+ 50					22						18	
						50		41						33
		534 + 00					22						18	
			Sta. 519+00 - 537+00			25		20						18
		+ 25	Total - C-1627 cy				21						21	
			R-46 cy			50		36						38
		+ 75	SB-1770 cy				18						20	
			75 cy for drives			25		17						18
		535 + 00	total SB-1845				18						19	
						50		33						36
		+ 50					18						20	
						50		33			C- R- SB	142 0 140		35
		536 + 00					18						18	
						50		38						34
		+ 50					23						19	
						50		38						35
		537 + 00					18						19	
			END Stowe Village											
		CARRIED FORWARD												
		COLUMN FOOTINGS												

PROJECT (Waterbury Stowe) Non Government & Stowe Village — Series ___ No. ___ Sheet ___ of ___ Filed ___ Sheets

EARTHWORK SHEET

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	F 116(6)			

Station	Elevation	Dist.	Total Excavation Earth and Rock Area	Cu. Yds.	Area	Cu. Yds.	Embankment Area	Cu. Yds.	Base Area	Cu. Yds.
46+0										
		50								
+50										
		25								
+75										
		25								
47+0			13				62		20	
		50		27				134		43
+50			16				83		26	
	C-282	50		36				138		51
48+0	F-638		23				66		29	
	SB-277	50		44				156		48
+50			24				102		23	
		50		40				115		43
49+0			19				22		23	
		50		58				47		44
+50			44				29		25	
		28		45				31		25
+78			42				30		24	
		22		32				17		23
50+0			37				11		32	
		29		49				7		31
+29			54				2		25	
		21		35				1		19
+50			36				1		24	
		30		33				2		26
+80			23				3		21	
		20		17				6		20
51+0			22				12		32	
		24.2		19				30		29
EQ {+24.2 +7.6 {+16.6	C-465		21				56		32	
	F-610	33.4		25				39		39
+50	SB-523		19				7		32	
		50		34				9		50
52+0			18				3		22	
		50		32				32		46
+50			17				32		28	
		50		34				55		50
53+0			20				27		26	
		50		38				67		49
+50			21				45		27	
		50		41				105		54
54+0			23				68		31	
		50		44				136		55
+50			24				79		28	
		50		64				121		55
55+0			45				52		31	
		50		61				94		51
+50			21				50		24	
		50		39				69		49
56+0			21				25		29	
		50		52				34		55
+50			35				12		30	
		50		58				11		50
57+0			28				0		24	
		50		51				0		44
+50			27				0		23	
	C-467	50		53				1		49
58+0	F-240		30				1		30	
	SB-483	50		46				2		50
+50			20				1		24	
		50		33				9		40
59+0			16				9		19	
		14		8				8		10
+14			15				20		20	
		16		10				7		12
+30			17				3		21	
		20		14				2		17
+50			21				3		24	
		50		42				3		56
60+0			24				0		37	
		50		44				1		50
+50			23				1		17	
		50		39				3		39
61+0	C-360		19				2		20	
	F-8	13.7		8				1		9
EQ {13.7 -1.8 {15.5	SB-321		21				0		18	
		23.5		21				0		15
+39			26				0		17	
		11		9				1		7
+50			17				3		16	
		25		24				2		16
+75			35				0		18	
		13		11				0		7
+88			10				0		9	
		12		4						4
62+0			10						9	
CARRIED FORWARD				160				0		142
COLUMN FOOTINGS				1374				1496		1425

Station	Elevation	Dist.	Total Excavation Earth and Rock Area	Cu. Yds.	Area	Cu. Yds.	Embankment Area	Cu. Yds.	Base Area	Cu. Yds.
62+0			10						9	
		50		19						18
+50			10						10	
		50		19						21
63+0			11						13	
		28		11						12
+28			11						11	
		22		13						12
+50			21						19	
		50		38						35
64+0			20						19	
		50		43						36
+50			26						20	
		50		57						45
65+0			36				0		29	
		50		74				2		52
+50			66				2		27	
		50		135				2		47
66+0			80				0		24	
		20		69				0		18
+20			106				0		25	
		30		90						28
+50			55						25	
	C-617	50		81						57
67+0	F-157		33				0		37	
	SB-330	50		61				6		63
+50			33				7		31	
		50		47				6		44
68+0			18				0		17	
		50		19				10		17
+50			2				11		1	
		50		8				26		1
69+0			7				17		0	
		50		8				50		1
+50			2				37		1	
		50		5				55		2
70+0			3				22		1	
		50		5				31		3
+50			2				11		2	
		50		4				13		4
71+0			2				3		2	
		50		4				9		3
+50	C-53		2				7		1	
	F-86	50		4				9		1
72+0	SB-20		2				3		0	
		50		4				6		0
+50			2				4		0	
		50		8				5		0
73+0			7				1		0	
		50		9				2		1
+50			3				1		1	
		50		5				4		3
74+0			2				3		2	
		50		5				5		3
+50			3				2		1	
		50		5				2		2
75+0			2				0		1	
		50		4				0		4
+50			2				0		3	
		50		4				6		6
76+0			2				7		3	
		50		4				11		5
+50			2				5		2	
		50		6				12		6
77+0	C-47		4				8		4	
	F-185	50		6				22		13
+50	SB-82		3				16		10	
		50		4				32		13
78+0			1				19		4	
		50		3				32		7
+50			2				16		4	
		50		4				31		8
79+0			2				17		5	
		50		5				30		12
+50			3				15		8	
		15		1				5		3
+65			2				4		4	
		35		6				4		5
80+0			7				2		3	
		50		31				6		7
+50			26				4		5	
		25		53				4		5
+75			87				3		5	
		25		79				5		4
81+0			84				6		3	
		25		77				5		5
+25			82				4		7	
		25		61				9		7
+50			50				16		6	
CARRIED FORWARD				301				29		281
COLUMN FOOTINGS				1218				457		639

Station	Elevation	Dist.	Total Excavation Earth and Rock Area	Cu. Yds.	Channel Area	Cu. Yds.	Embankment Area	Cu. Yds.	Base Area	Cu. Yds.
81+50			50				16		6	
		50		105				36		11
82+0			63				23		6	
		25		85				21		7
+25			121				22		8	
		25		97				22		8
+50			89				29		9	
		25		110				20		8
+75			149				19		8	
	C-800	25		74				18		6
83+0	F-338		11				3		5	
	SB-110	25.4		11				1		4
EQ {25.4 -3.7 {29.1			12				0		4	
		20.9		5				0		2
+50			2				0		2	
		50		4				2		6
84+0			2				2		5	
		50		4				82		13
+50			2				87		9	
		50		4				115		17
85+0			2				37		9	
		50		7				37		14
+50			6				3		6	
		35		29				6		9
+85			39				6		8	
		15		26				3		4
86+0			54				7		7	
		25		60				5		7
+25			76				4		8	
		25		70				4		7
+50			74				5		7	
	C-505	36		92				9		9
+86	F-151		63				9		6	
	SB 108	14		36				4		3
87+0			76				8		2	
		32		80				6		6
+32			51				2		3	
		18		35				2		4
+50			59				3		9	
		50		53				31		13
88+0			3				30		5	
		50		5				28		6
+50			2				0		1	
		50		4				4		7
89+0			2				4		7	
		50		4				6		9
+50			2				3		3	
		50		4				6		10
90+0			2				3		8	
		50		4				12		19
+50			2				10		13	
		50		4				22		19
91+0			2				14		8	
		50		4				31		12
+50			2				30		5	
		25		2				14		3
+75			2				0		1	
	C-250	25		7				4		7
92+0 +06	F-454		12				9		13	
	SB-237 44	50		20	0	4		45		27
+50	Ch-92		10		5		41		16	
		50		26		12		46		22
93+0			18		8		9		8	
		25		28				14		12
+25			43			17	21		18	
		25		38				23		16
+50			38		10		28		17	
		27		39				41		18
+77			40			16	54		19	
		23		21				45		20
94+0			10		7		52		27	
		50		26		19		87		56
+50			18		14		42		34	
		50		31		24		70		56
95+0			15		12		34		26	
		50		22		22		94		46
+50			9		12		68		24	
		50		25		22		129		39
96+0	C-209		18		12		71		18	
	F-890	50		23		22		119		38
+50	SB-363		7		12		58		23	
	Ch-247	50		19		20		107		44
97+0			14		10		58		25	
		50		25		16		106		44
+50			13		7		56		23	
		50		24		21		105		43
98+0			13		16		57		23	
		50		28		37		85		42
+50			17		24		35		22	
CARRIED FORWARD				166		160		745		296
COLUMN FOOTINGS				1420		252		1659		773

PROJECT Waterbury-Stowe

Series 9? No. Filed

Sheet 1 of Sheets

EARTHWORK SHEET

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.				

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Corr. V.C.	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Channel Area	Channel Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Base Area	Base Cu. Yds.
		98+50					17		24		35		22	
						25		13		36		39		18
		+75					12				49		17	
						25		12	15			23		14
		99+0					13			41	0		14	
						50		14				31		17
		+50					2		29	10	33		4	
		+68			18}	50		4	0			52		18
		100+0					2				23		15	
						50		3				76		31
		+50					1				59		18	
						50		2				57		23
		101+0					1				3		7	
						50		25				3		27
		+50					26				0		22	
				C	596	50		64				2		42
		102+0		F	500		43				2		23	
				SB	317	50		85				27		44
		+50		Ch	140		49				27		24	
		+85			35}	50		115	0	2		51		40
		103+0					25		6		28		19	
						50		139		19		68		32
		+50					25		15		45		16	
						50		112		31		76		33
		104+0					46		18		37		20	
						50		46		39		71		28
		+50					4		24		40		10	
						50		5		49		69		17
		105+0					1		29		55		8	
						50		2		56		60		12
		+50					1		31		30		5	
						50		3		65		50		16
		106+0		C	87		2		39		24		12	
				F	507	50		4		110		35		22
		+50		Ch	551		2		80		14		12	
				SB	180	50		3		95		26		22
		107+0					1		23		14		12	
						50		2		35		53		15
		+50					1		15		43		4	
						50		2		38		58		6
		108+0					1		26		20		3	
						50		2		34		57		6
		+50					1		11		42		4	
						50		3		27		68		6
		109+0					2		18		31		2	
						50		22		40		53		26
		+50					22		25		26		26	
						50		44		51		47		49
		110+0					26		30		25		27	
						50		46		28		44		52
		+50					24		0		22		29	
						50		43		22		44		52
		111+0					22		24		25		27	
						50		39		43		53		48
		+50		C	491		20		22		32		25	
				F	1061	50		44		44		68		53
		112+0		Ch	507		27		25		41		32	
				SB	551	50		54		45		84		65
		+50					31		24		50		38	
						50		57		41		94		70
		113+0					31		20		52		38	
						50		55		71		118		61
		+50					28		57		75		28	
						50		58		88		170		54
		114+0					35		38		110		30	
						50		53		72		214		50
		+50					22		40		121		24	
		+86	butt			36 / 14		42	40	53		172		46
		115+0					23				65		26	
						50		44				111		44
		+50					24				55		21	
						50		42				97		43
		116+0					21				50		25	
				C	427	50		41				46		47
		+50		F	754		23				0		26	
				SB	465	50		40				52		43
		117+0					20				56		20	
						50		37				101		46
		+50					20				53		30	
						50		43				126		52
		118+0					26				63		26	
						50		45				137		44
		+50					23				65		21	
						5.6		5				13		5
		EQ{+55.6 / +45.6					22				64		23	
						4.4		4				10		4
		+50					22				59		27	
						50		43				55		48
		119+0					24				0		25	
						50		44				0		46
		+50					23				0		25	
		CARRIED FORWARD						388				748		422
		COLUMN FOOTINGS						1605		1285		2961		1537

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Corr. V.C.	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Channel Area	Channel Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Base Area	Base Cu. Yds.
		119+50					23				0		25	
						30		24				3		26
		+80					20				5		22	
						20		15				3		17
		120+0					21				3		24	
						22		36				1		22
		+22					65				0		29	
						28		66				0		34
		+50					60						37	
						25		48						37
		+75					44						43	
						25		34				0		39
		121+0					30				0		41	
		+25		C	612	25 / 50		56	0	5		42		75
		+50		F	393		31		10		45		40	
				Ch	356	50		56		37		56		64
		122+0		SB	602		29		30		15		29	
						50		55		49		35		56
		+50					30		23		23		31	
						50		58		33		44		56
		123+0					33		13		25		30	
						50		55		74		45		53
		+50					26		67		24		27	
						50		47		78		55		55
		124+0					25		17		35		32	
						50		50		30		63		56
		+50					29		15		33		29	
						50		51		50		52		55
		125+0					26		39		23		30	
						50		46		51		46		52
		+50					24		16		27		26	
				C	470	50		43		22		58		51
		126+0		F	655		23		8		36		29	
				Ch	170	50		47		21		56		56
		+50		SB	537		28		15		25		31	
						50		46		33		57		56
		127+0					22		21		37		30	
						50		45		32		65		56
		+50					27		14		33		30	
		+70	butt			21 / 50		44	16	11		73		48
		128+0					21				46		22	
						50		43				85		45
		+50					25				46		27	
						50		50				69		58
		129+0					29				28		36	
						50		53				76		60
		+50					28				54		29	
						50		53				70		55
		130+0					29				22		30	
						50		36				23		54
		+50					30				3		28	
						50		52				3		53
		131+0					26				0		29	
						50		48				0		57
		+50					26				0		33	
						50		51				3		54
		132+0					29				3		25	
						50		48				8		46
		+50		C	493		23				6		25	
				F	48	50		43				6		56
		133+0		SB	509		23				0		35	
						50		46				0		59
		+50					27						29	
						25		25						23
		+75					28						21	
						25		26						21
		134+0					28						25	
						50		52				0		45
		+50					28				0		24	
						19		18				1		16
		+69					22				4		21	
						31		29				4		25
		135+0					29				3		23	
						50		57				11		56
		+50					33				9		38	
						50		52				17		71
		136+0					28				9		39	
				C	492	50		47				22		68
		+50		F	243		28				15		34	
				SB	686	50		59				21		62
		137+0					36				8		33	
						50		64				16		66
		+50					33				9		38	
						50		54				25		77
		138+0					25				18		45	
						50		44				38		76
		+50					22				23		37	
						50		36				39		72
		139+0					17				19		41	
						50		37				23		70
		+50					23				6		35	
		CARRIED FORWARD						450				212		618
		COLUMN FOOTINGS						2064		526		1314		2309

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Corr. V.C.	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Area	Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Base Area	Base Cu. Yds.
		139+50					23				6		35	
						50		42				31		68
		140+0					22				28		38	
						50		69				27		71
		+50					52				1		39	
						50		198				1		64
		141+0					162				0		30	
						50		284				0		53
		+50					145				0		27	
						50		201				6		50
		142+0					72				7		27	
						31		78				5		31
		+31		C	1159		63				2		27	
				F	156	19		39				1		22
		+50		SB	653		28				2		36	
						50		78				6		68
		143+0					36				5		37	
						50		62				33		69
		+50					31				31		37	
						50		56				41		70
		144+0					29				13		38	
						50		48				20		76
		+50					23				9		44	
						32		29				8		51
		+82					26				5		42	
						18		17				8		28
		145+0					24				18		41	
						50		49				42		89
		+50					29				27		55	
						50		54				48		104
		146+0					29				25		57	
						50		46				49		93
		+50		C	429		21				28		43	
				F	339	50		36				52		79
		147+0		SB	913		18				28		42	
						50		34				41		83
		+50					19				16		47	
						50		34				29		83
		148+0					18				15		42	
						50		41				19		89
		+50					26				6		54	
						50		47				15		104
		149+0					25				10		58	
						50		45				20		97
		+50					24				12		57	
						50		43				24		94
		150+0					22				14		45	
						50		41				23		93
		+50					22				11		55	
						50		45				22		110
		151+0					27				13		64	
						50		45				24		115
		+50					22				13		60	
				C	425	50		43				31		109
		152+0		F	300		24				20		58	
				SB	1043	50		41				41		102
		+50					20				24		52	
						50		39				37		103
		153+0					22				16		59	
						50		42				29		110
		+50					23				15		60	
						50		44				23		109
		154+0					25				10		58	
						50		44				28		101
		+50					22				20		51	
						50		41				42		91
		155+0					22				25		47	
						50		41				58		84
		+50					22				38		44	
						50		33				98		77
		156+0					14				68		29	
						50		36				132		63
		+50					25				75		39	
						50		58				166		67
		157+0					38				104		33	
				C	517	50		84				136		59
		+50		F	1045		53				43		31	
				SB	661	50		94				95		59
		158+0					48				60		33	
						30		48				63		35
		+30					39				53		30	
						20		20				35		24
		+50					15				41		34	
						50		27				85		69
		159+0					14				51		40	
						50		36				89		66
		+50					25				45		31	
		CARRIED FORWARD						477				957		603
		COLUMN FOOTINGS						2532				1783		3282

PROJECT E116(5)

Series No. Sheet 2 of Sheets Filed

EARTHWORK SHEET

Fed. Road Dist. No.	State	Proj. No.	Fiscal Year	Sheet No.	Total Sheets
9	VT.				

477 457 603.

Station	Elevation / Corr. V.C.	Dist.	Total Excavation Earth and Rock Area	Cu. Yds.	Embankment Area	Cu. Yds.	Base Area	Cu. Yds.
159+50			25		45		31	
		50		40		88		58
160+0			18		50		32	
		50		38		97		60
+50			23		55		33	
		50		41		98		59
161+0			21		51		31	
		50		44		113		61
+50			27		71		35	
		50		41		116		67
162+0	C 440		17		54		37	
	F 652	50		35		92		62
+50	SB 573		21		45		30	
		50		44		49		56
163+0			26		8		31	
		35		36		5		37
+35			30		0		26	
		15		16		0		15
+50			28		0		28	
		50		52		10		53
164+0			28		11		29	
		50		49		28		53
+50			25		19		28	
		50		44		44		50
165+0			22		28		26	
		50		44		55		47
+50			26		31		25	
		50		48		44		48
166+0			26		16		27	
		50		50		16		52
+50			28		1		29	
	C 503	50		54		2		52
167+0	F 120		30		1		27	
	SB 453	50		50		1		45
+50			24		0		22	
		50		42				40
168+0			21				21	
		50		41				39
+50			23				21	
		47.6		64				37
EQ {+97.6 -3.2 {+00.8			49				21	
		49.2		66				44
+50			24		0		26	
		50		44		2		49
170+0			23		2		27	
		50		45		30		56
+50			26		30		33	
		50		48		28		59
171+0			26		0		31	
		50		51		17		62
+50			29		18		36	
		50		51		29		68
172+0			26		13		37	
	C 414	50		46		12		58
+50	F 2268		24		0		26	
	SB 561	26		23		27		41
+76			23		57		59	
		24		19		110		37
173+0			20		190		25	
		50		35		438		46
+50			18		283		25	
		50		33		681		45
174+0			18		453		24	
		50		31		773		45
+50			15		382		25	
		50		32		736		44
175+0			20		413		22	
		31		37		383		25
+31			44		255		21	
		19		38		230		15
+50			64		400		23	
		50		249		838		46
176+0			205		505		27	
		50		207		989		54
+50			19		563		31	
	C 841	50		43		918		49
177+0	F 4075		27		428		22	
	SB 478	20		17		189		14
+20			18		82		17	
		30		35		97		18
+50			45		92		16	
		50		58		92		30
178+0			18		7		16	
		50		38		7		39
+50			23		1		26	
		50		40		11		60
179+0			20		119		39	
		50		38		151		67
+50			21		44		33	
		50		41		70		61
180+0			23		32		33	
CARRIED FORWARD				0		0		0
COLUMN FOOTINGS				2238		7203		2123

Station	Elevation / Corr. V.C.	Dist.	Total Excavation Earth and Rock Area	Cu. Yds.	Embankment Area	Cu. Yds.	Base Area	Cu. Yds.
180+0			23		32		33	
		50		39		60		58
+50			19		33		30	
		36		19		49		31
+86			10		40		17	
		14		6		21		9
181+0			13		40		17	
		50		31		102		42
+50			21		76		28	
		50		40		108		54
182+0	C 453		22		47		30	
	F 1448	50		39		110		57
+50	SB 508		20		72		32	
		50		40		122		54
183+0			23		60		26	
		50		38		134		52
+50			18		85		30	
		50		51		144		51
184+0			37		70		25	
		50		72		272		47
+50			41		224		26	
		50		78		326		53
185+0			43		128		31	
		50		69		206		57
+50			31		95		31	
		50		63		203		60
186+0			37		124		34	
		50		72		118		57
+50			41		3		28	
		50		106		3		51
187+0			74		0		27	
		50		94				43
+50	C 554		27				19	
	F 530	10		8				7
+60	SB 419		17				20	
		40		26				28
188+0			18				28	
		30		17				17
+30			12				13	
		20		10				10
+50			14				15	
		30		17				19
+80			16				19	
		20		13				14
189+0			18				19	
		50		30				29
+50			14				12	
		50		29				27
190+0			17				17	
		10		6				7
+10			17				21	
		40		24				30
+50			16				19	
		50		27				33
191+0			13				17	
		50		25				38
+50			14				24	
		18		9				16
+68			14				24	
		32		19				27
192+0	C 295		18				21	
	F 0	50		33				37
+50	SB 344		17				19	
		50		30				31
193+0			15				19	
		27		15				16
+27			14				17	
		23		12				14
+50			13				16	
		18		9				10
+68			13				14	
		32		15				17
194+0			13				14	
		50		32				32
+50			21				21	
		20		16				15
+70			21				19	
		30		23				21
195+0			20		0		19	
		15		11		1		10
+15			19		4		18	
		35		25		1		25
+50	C 416		19		0		20	
	F 11	17		12				15
+67	SB 421		19				27	
		33		25				32
196+0			22		0		25	
		50		41		1		44
+50			22		2		22	
		35		29		1		34
+85			22		0		30	
CARRIED FORWARD				143		4		160
COLUMN FOOTINGS				1445		1982		1431

Station	Elevation / Corr. V.C.	Dist.	Total Excavation Earth and Rock Area	Cu. Yds.	Embankment Area	Cu. Yds.	Base Area	Cu. Yds.
196+85			22		0		30	
		15		12		1		15
197+0			20		2		23	
		50		38		2		40
+50			21		0		20	
		50		58		2		37
198+0			42		2		20	
		50		56		2		39
+50			19		0		22	
		50		35				42
199+0			19		0		23	
		42		30				38
+42			19		0		26	
		08		6				7
+50			19				23	
		50		38				43
200+0			22				23	
		50		39				44
+50			20				24	
		50		39				45
201+0			22		0		25	
		40		33		1		40
+40			22		1		29	
		10		8		1		10
+50			22		2		24	
		38		31		1		34
+88			22		0		24	
		12		11		1		11
202+0	C – 618		26		2		26	
	F – 9	50		51		2		48
+50	SB – 467		29		0		26	
		40		38				36
+90			22		0		22	
		10		8		1		8
203+0			22		2		23	
		50		44		2		46
+50			25		0		27	
		50		79				48
204+0			60		0		25	
		15		34				15
+15			63				29	
		35		81				35
+50			62				25	
		50		122				47
205+0			70				26	
		25		63				22
+25			65				20	
		25		72				21
+50			90				24	
		20		66				17
+70			88				21	
		30		95				27
206+0			82				28	
		30		64				32
+30			34				30	
	C – 1002	20		31				21
+50	F – 212		50				27	
	SB – 492	50		74				48
207+0			30		0		25	
		38		54		21		37
+38			46		30		28	
		12		18		8		12
+50			36		5		24	
		50		66		25		46
208+0			35		23		26	
		50		73		52		50
+50			44		33		28	
		50		77		39		50
209+0			39		9		26	
		50		107		31		52
+50			77		25		30	
		50		142		35		57
210+0			76		13		32	
		50		155		43		57
+50			92		33		30	
		50		156		50		53
211+0			77		21		27	
	C – 983	50		108		35		53
+50	F – 323		40		17		30	
	SB – 600	50		84		34		53
212+0			51		20		27	
		50		92		37		55
+50			48		20		32	
		50		91		39		60
213+0			50		22		33	
		50		81		31		65
+50			38		12		37	
CARRIED FORWARD	41			768		269		396
COLUMN FOOTINGS				2661		497		1616

PROJECT

Series No. Filed

Sheet 3 of Sheets

EARTHWORK SHEET

FED. ROAD DIST. NO.	ST[illegible]
9	VT

PROFILE							TOTAL EXCAVATION EARTH AND ROCK				EMBANKMENT		BASE	
			ELEVATION		CORR									
V.C.	% GRADE	STATION	ON GRADES	ON V CURVES	V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		213+50					38				12		37	
						50		78				22		68
		214+0					46				12		36	
						50		77				16		66
		+50					37				5		35	
						17		21				5		23
		+67					29				10		37	
						33		39				11		47
		215+0					35				8		40	
						50		51				22		69
		+50					20				16		34	
						50		44				56		67
		216+0					27				44		38	
						50		43				109		72
		+50					19				74		40	
						50		36				135		79
		217+0		C -	504		20				72		45	
				F -	742	50		38				135		81
		+50		SB -	715		21				74		42	
						50		37				119		72
		218+0					19				54		36	
						50		34				82		72
		+50					18				35		42	
						50		45				48		71
		219+0					31				17		35	
						50		79				22		69
		+50					54				7		39	
						25		57				5		31
		+75					70				5		27	
						25		40				9		32
		220+0					16				13		43	
						50		99				19		77
		+50					91				7		40	
						50		162				8		71
		221+0					84				2		37	
						50		141				6		72
		+50					68				5		41	
						50		100				14		71
		222+0		C -	909		40				10		36	
				F	122	50		58				21		68
		+50		SB	691		23				13		37	
						50		44				26		66
		223+0					25				15		34	
						50		47				17		65
		+50					26				3		36	
						50		53				6		75
		224+0					31				3		45	
						50		92				4		72
		+50					68				1		33	
						50		113				1		54
		225+0					54				0		26	
						25		46				0		26
		+25					45						30	
						25		52						28
		+50					67						30	
						50		91				0		58
		226+0					31				0		33	
						50		48				28		66
		+50		C -	550		21				30		38	
				F -	238	50		41				39		69
		227+0		SB -	652		23				12		36	
						50		42				19		66
		+50					22				9		35	
						50		40				19		67
		228+0					21				12		37	
						50		42				16		68
		+50					24				5		36	
						50		46				32		66
		229+0					26				30		35	
						50		50				42		71
		+50					28				15		42	
						50		52				43		77
		230+0					28				31		41	
						50		86				89		75
		+50					65				65		40	
						50		141				102		73
		231+0					87				45		39	
						50		167				51		73
		+50					93				10		40	
				C -	929	50		141				63		71
		232+0		F -	746		59				58		32	
				SB -	733	50		94				82		73
		+50					42				30		42	
						50		59				79		77
		233+0					22				55		41	
						50		50				120		74
		+50					32				75		39	
						50		62				107		73
		234+0					35				41		40	
						50		67				43		74
		+50					37				5		40	
		CARRIED FORWARD						867				736		663
		COLUMN FOOTINGS						3045				1892		2925

PROFILE							TOTAL EXCAVATION EARTH AND ROCK				EMBANKMENT		BASE	
			ELEVATION		CORR									
V.C.	% GRADE	STATION	ON GRADES	ON V CURVES	V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		234+50					37				5		40	
						50		62				10		70
		235+0					30				6		36	
						50		54				15		68
		+50					28				10		37	
						50		73				15		68
		236+0					51				6		36	
						50		74				10		64
		+50					29				5		33	
						50		72				12		62
		237+0		C -	660		49				8		34	
				F -	173	50		80				16		63
		+50		SB -	652		37				9		34	
						50		75				22		67
		238+0					44				15		38	
						50		69				16		68
		+50					31				2		35	
						50		55				12		62
		239+0					28				11		32	
						50		58				22		64
		+50					35				13		37	
						20		24				12		26
		+70					29				19		33	
						30		26				21		40
		240+0					17				18		38	
						50		36				61		72
		+50					22				48		40	
						50		47				96		74
		241+0					29				56		40	
						50		47				103		74
		+50					22				55		40	
						50		44				110		73
		242+0					26				64		39	
				C -	434	50		49				105		66
		+50		F -	983		27				49		32	
				SB -	710	50		48				100		62
		243+0					25				59		35	
						50		44				107		65
		+50					23				57		35	
						50		42				100		69
		244+0					22				51		39	
						50		38				103		76
		+50					19				60		43	
						50		39				98		79
		245+0					23				46		42	
						50		42				78		76
		+50					22				38		40	
						50		42				62		72
		246+0					23				29		38	
						50		53				31		70
		+50					34				4		38	
				C -	495	50		64				12		71
		247+0		F -	222		35				9		39	
				SB -	701	50		65				0		69
		+50					35				0		35	
						50		56						63
		248+0					26						33	
						50		43				0		66
		+50					20				0		38	
						50		37				11		70
		249+0					20				12		38	
						50		43				16		69
		+50					26				5		37	
						50		50				12		75
		250+0					29				8		44	
						50		56				19		81
		+50					31				12		44	
						50		75				11		73
		251+0					50				0		35	
						50		101				6		69
		+50					59				7		40	
				C -	574	50		86				10		75
		252+0		F -	81		34				4		41	
				SB -	747	50		53				11		69
		+50					23				8		33	
						50		47				12		69
		253+0					28				5		41	
						50		43				7		81
		+50					18				3		47	
						50		36				4		86
		254+0					21				1		46	
						50		40				1		84
		+50					22				0		45	
						32		24				0		43
		+82					18						27	
						18		13						17
		255+0					21						24	
						50		40						43
		+50					22						22	
						50		46						43
		256+0					28						24	
		CARRIED FORWARD						86				0		86
		COLUMN FOOTINGS						2311				1469		2966

PROFILE							TOTAL EXCAVATION EARTH AND ROCK				EMBANKMENT			
			ELEVATION		CORR									
V.C.	% GRADE	STATION	ON GRADES	ON V CURVES	V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA			
		256+0					28				0			
						50		61				0		
		+50					38				0			
						50		52				3		
		257+0					18				3		[illegible]	
				C -	500	50		42				7		
		+50		F -	538		27				5		35	
				SB -	600	50		46				28		
		258+0					23				25		43	
						50		45				110		
		+50					26				94		35	
						50		52				128		
		259+0					30				44		43	
						50		55				124		
		+50					29				90		40	
						50		61				138		[illegible]
		260+0					37				59		53	
						50		62				93		[illegible]
		+50					30				41		54	
						50		53				71		98
		261+0					27				36		52	
						50		52				40		100
		+50					29				7		49	
						25		28				7		-47
		+75		C -	724		31				5		52	
				F	289	25		26				3		-48
		262+0		SB	839		25				1		50	
						50		51				1		85
		+50					30				0		42	
						50		70						79
		263+0					46				0		43	
						50		84				3		80
		+50					45				3		43	
						50		79				14		76
		264+0					40				12		39	
						50		93				26		64
		+50					61				16		30	
						50		126				31		63
		265+0					75				17		38	
						50		147				31		70
		+50					84				16		38	
						50		144				26		76
		266+0					71				12		44	
						50		146				23		82
		+50					87				13		45	
				C -	932	50		144				24		70
		267+0		F -	378		68				13		31	
				SB -	783	50		113				27		67
		+50					54				16		41	
						50		67				41		78
		268+0					18				28		43	
						50		33				50		90
		+50					18				26		34	
						50		39				49		85
		269+0					26				27		38	
						50		46				63		69
		+50					24				41		37	
						50		53				44		96
		270+0					33				6		67	
						50		63				9		118
		+50					35				4		60	
						34		40				3		-65
		+84					28				0		44	
						16		15				1		-21
		271+0					24				5		27	
						50		42				19		60
		+50					21				15		38	
				C -	380	50		37				36		70
		272+0		F -	329		19				24		38	
				SB -	739	50		32				45		67
		+50					18				25		34	
						50		35				50		65
		273+0					20				29		36	
						50		39				48		66
		+50					22				23		35	
						20		15				18		25
		+70					18				25		33	
						30		21				25		43
		274+0					19				19		44	
						50		35				41		70
		+50					19				25		32	
						50		34				34		69
		275+0					18				12		43	
						25		20				6		-37
		+25					25				0		37	
						25		21				16		-31
		+50					21				35		29	
		CARRIED FORWARD						41				22		68
		COLUMN FOOTINGS						2491				1556		2943

PROJECT

Series No. Sheet 4 Filed

12

EARTHWORK SHEET

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Corr. V.C.	Dist	Total Excavation Earth and Rock Area	Total Excavation Earth and Rock Cu Yds	Channel Area	Channel Cu Yds	Embankment Area	Embankment Cu Yds	Base Area	Base Cu Yds
		275+50					21				35		29	
						50		40				74		62
		276+0					22				45		38	
						50		44				127		75
		+50					25				92		43	
						50		47				202		77
		277+0		C	478		26				126		40	
				F	1754	50		53				262		70
		+50		SB	701		31				157		36	
					633	50		60				181		60
		278+0					34				39		29	
						50		58				153		70
		+50					29				126		47	
						50		54				214		81
		279+0					29				105		41	
						50		42				274		69
		+50					16				191		34	
						50		39				245		69
		280+0					26				74		40	
						50		56				73		73
		+50					34				5		39	
						50		69				15		78
		281+0					40				11		45	
						50		72				10		72
		+50					38				0		33	
						50		114						58
		282+0		C	1547		85						29	
				F	98	50		179						54
		+50		SB	561		108						29	
						50		219						54
		283+0					128						29	
						50		226						49
		+50					116						24	
						50		207						41
		284+0					108						20	
						50		199						40
		+50					107						23	
						50		206						42
		285+0					116						22	
						50		212						42
		+50					113						23	
						50		154						42
		286+0					53						22	
						50		96						41
		+50		C	821		51						22	
				F	438	50		88						53
		287+0		SB	639		44				0		35	
				Ch	37	50		59				33		65
		+50					20				36		35	
						50		40				94		83
		288+0					23				65		55	
						50		44				110		89
		+50					24		0		54		41	
						50		43		7		100		78
		289+0					22		8		54		43	
						33		21		10		46		39
		+33					13		9		21		20	
						17		11		5		13		20
		+50					22		8		19		42	
						50		53		15		42		87
		290+0					35		8		26		52	
						50		57		18		57		94
		+50					27		11		36		49	
						50		45		26		49		80
		291+0					22		17		17		37	
						50		44		22		41		74
		+50		C	495		26		7		27		43	
				F	566	50		43		12		59		77
		292+0		SB	784		20		6		37		40	
				Ch	130	50		40		12		63		69
		+50					23		7		31		34	
						50		47		14		45		70
		293+0					28		8		18		42	
						50		49		17		60		77
		+50					25		10		47		41	
						50		52		9		87		81
		294+0					31		0		47		46	
						50		57				74		88
		+50					31				33		49	
						50		61				31		74
		295+0					35				0		31	
						50		69						56
		+50					39						29	
						50		80						55
		296+0					47						30	
						50		82						57
		+50					42						32	
						50		78						50
		297+0					42						22	
			CARRIED FORWARD					309						218
			COLUMN FOOTINGS					3609		167		2834		2835

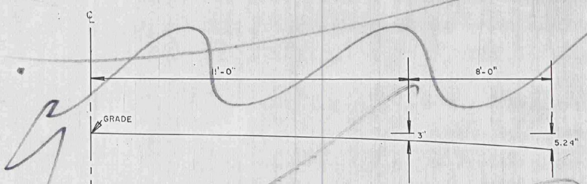
V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Corr. V.C.	Dist	Total Excavation Earth and Rock Area	Total Excavation Earth and Rock Cu Yds	Area	Cu Yds	Embankment Area	Embankment Cu Yds	Base Area	Base Cu Yds
		297+0					42						22	
						50		64						43
		+50		C	604		27						24	
				F	83	50		59						43
		298+0		SB	494		37				0		22	
						50		51				6		44
		+50					18				6		26	
						50		41				6		48
		299+0			274		26				0		26	
						30		26				0		27
		+30					20				0		23	
						20		15				7		17
		+50					21				20		24	
						50		39				64		54
		300+0					21				49		34	
						50		37				90		60
		+50					19				48		31	
						50		32				96		62
		301+0					16				56		36	
						50		34				70		64
		+50					21				20		33	
				C	498	50		43				21		57
		302+0		F	280		25				3		29	
				SB	489	50		53				3		48
		+50					32				0		23	
						50		64						42
		303+0					37						22	
						50		65						41
		+50					33						22	
						5.4		6						4
		EQ {+55.4 +58.6} -3.2					30						19	
						32.4		34						23
		+91					27						19	
						9		10						7
		304+0					31						20	
						50		51						40
		+50					24						23	
						50		69						41
		305+0					50						21	
						50		89						44
		+50					46						26	
						50		70						44
		306+0					30						22	
						50		61						42
		+50					36						23	
						32		37						25
		+82					26						19	
						18		16						13
		307+0		C	631		21						19	
				F	2	50		37						36
		+50		SB	414		19						20	
						30		27						21
		+80					30				0		18	
						20		22				1		16
		308+0					30				3		25	
						20		25				1		18
		+20					37				0		23	
						30		42						27
		+50					39						25	
						50		64						47
		309+0					30						26	
						25		32						24
		+25					38						26	
						25		39						22
		+50					47						22	
						50		70						35
		310+0					29						18	
						50		52						37
		+50					27						24	
						50		52						44
		311+0					29				0		24	
						50		56				7		44
		+50					32				8		23	
				C	534	50		78				10		52
		312+0		F	233		52				3		33	
				SB	491	50		75				8		57
		+50					29				6		29	
						50		55				16		56
		313+0					30				11		31	
						50		50				35		59
		+50					24				27		33	
						50		42				57		55
		314+0					21				35		26	
						50		39				58		44
		+50					21				28		22	
						50		35				42		43
		315+0					17				17		24	
						50		36				28		40
		+50					22				13		19	
						50		37				33		42
		316+0					18				23		26	
			CARRIED FORWARD					73				61		82
			COLUMN FOOTINGS					2031				659		1752

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Corr. V.C.	Dist	Total Excavation Earth and Rock Area	Total Excavation Earth and Rock Cu Yds	Area	Cu Yds	Area	Cu Yds
		316+0					18					
						50		36				
		+50					21					
						50		33				
		317+0					15					
				C	338	50		30				
		+50		F	306		17					
				SB	451	50		33				
		318+0					19					
						50		33				
		+50					17		10			
						50		31				
		319+0					16		13			
						50		33				
		+50					20		9			
						50		36				
		320+0					19		36			
						50		37		7		
		+50					21		43			
						50		31		8		
		321+0					13		44			
						48.8		28		4		
		EQ {+48.8 +57.0} -8.2					18		2			
						43		60		1		
		322+0					37		0			
				C	586	50		90		0		
		+50		F	261		40		0			
				SB	500	50		87		5		
		323+0					52		5			
						34		86		9		
		+34					65		10			
						16		36		7		
		+50					30		15		31	
						50		50		24		58
		324+0					18		11		38	
						50		37		10		51
		+50					32		0		25	
						34		30		6		28
		+84					25		10		22	
						16		14		3		11
		325+0					23		0		14	
						25		22				
		+25					24				19	
						25		22				18
		+50					24				20	
						27		25				20
		+77					25		0		19	
						23		18		1		17
		326+0					18		2		20	
				C	631	50		37		6		40
		+50		F	56		22		4		23	
				SB	427	50		68		6		44
		327+0					51		3		25	
						50		115		3		49
		+50					73		0		23	
						50		138				28
		328+0					70		0		25	
						50		86		4		43
		+50					17		4		21	
						50		31		11		42
		329+0					17		4		24	
						50		34		15		45
		+50					20		8		25	
						50		35		10		46
		330+0					18		3		25	
						50		32		15		43
		+50					17		13		24	
						33		29		9		29
		+83					31		3		24	
				C	472	17		24		1		15
		331+0		F	332		44		0		23	
				SB	417	50		62				38
		+50					23				17	
						50		44				38
		332+0					25				24	
						42		67				35
		+42					61				21	
						8		16				7
		+50					54				23	
						50		62				40
		333+0					17		0		20	
						50		31		6		41
		+50					17		3		22	
						25		23		4		21
		+75					33		3			
			CARRIED FORWARD					390		35		
			COLUMN FOOTINGS					1872		597		

PROJECT

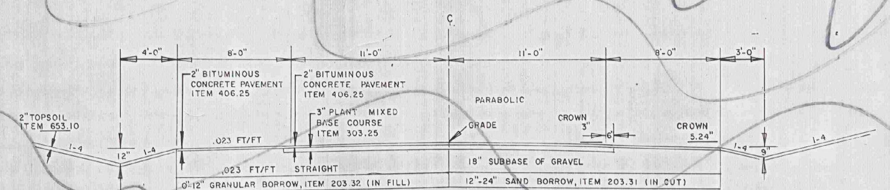
TYPICAL SECTIONS

2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25
3" PLANT MIXED BASE COURSE, ITEM 303.25
18" SUB-BASE OF GRAVEL, ITEM 301.15
SHOULDERS: 2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25
0"-12" GRANULAR BORROW, ITEM 203.32 (IN FILL) (TO BE PLACED AS SHOWN ON PLANS
12"-24" SAND BORROW, ITEM 203.31 (IN CUT) OR AS DIRECTED BY THE ENGINEER)



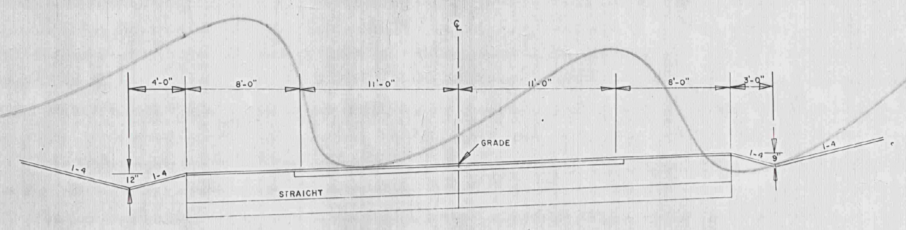
PARABOLIC DETAIL

STA. 6+00 TO 13+00



NORMAL SECTION

BUILT AS DESIGNED



FULL BANKED SECTION
0.033 FT/FT

GENERAL NOTES

SEED, ITEM 651.10
TO BE APPLIED AS DIRECTED BY THE ENGINEER

%WT	LBS/A	NAME	PUR%	GERM%
40	30	CREEPING RED FESCUE (VAR PENNLAWN)	98	85
30	25	KENTUCKY BLUE GRASS (COMMON)	85	75
30	25	PERENNIAL RYE GRASS (VAR PENNFIRE)	95	90
100	80			

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40 % BY WEIGHT AND SHALL BE FREE FROM ALL NOXIOUS WEED SEED

MARKER POSTS, (WOOD OR STEEL AS SPECIFIED)
TO BE PLACED AS DIRECTED BY THE ENGINEER.

FERTILIZER, ITEM 651.15
FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS /ACR

AGRICULTURAL LIMESTONE, ITEM 651.20
TO BE APPLIED AT RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER

HAY MULCH ITEM 651.25
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

TOPSOIL, ITEM 653.10
TO BE USED WITH SEED, ITEM 651.10 IN RESIDENTIAL AREAS, AS DIRECTED BY THE ENGINEER

SEE STANDARD SHEET B-5
FOR TYPICAL SLOPE ROUNDING

SEE STANDARD SHEET D-2 FOR PAY LIMITS OF SAND BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN

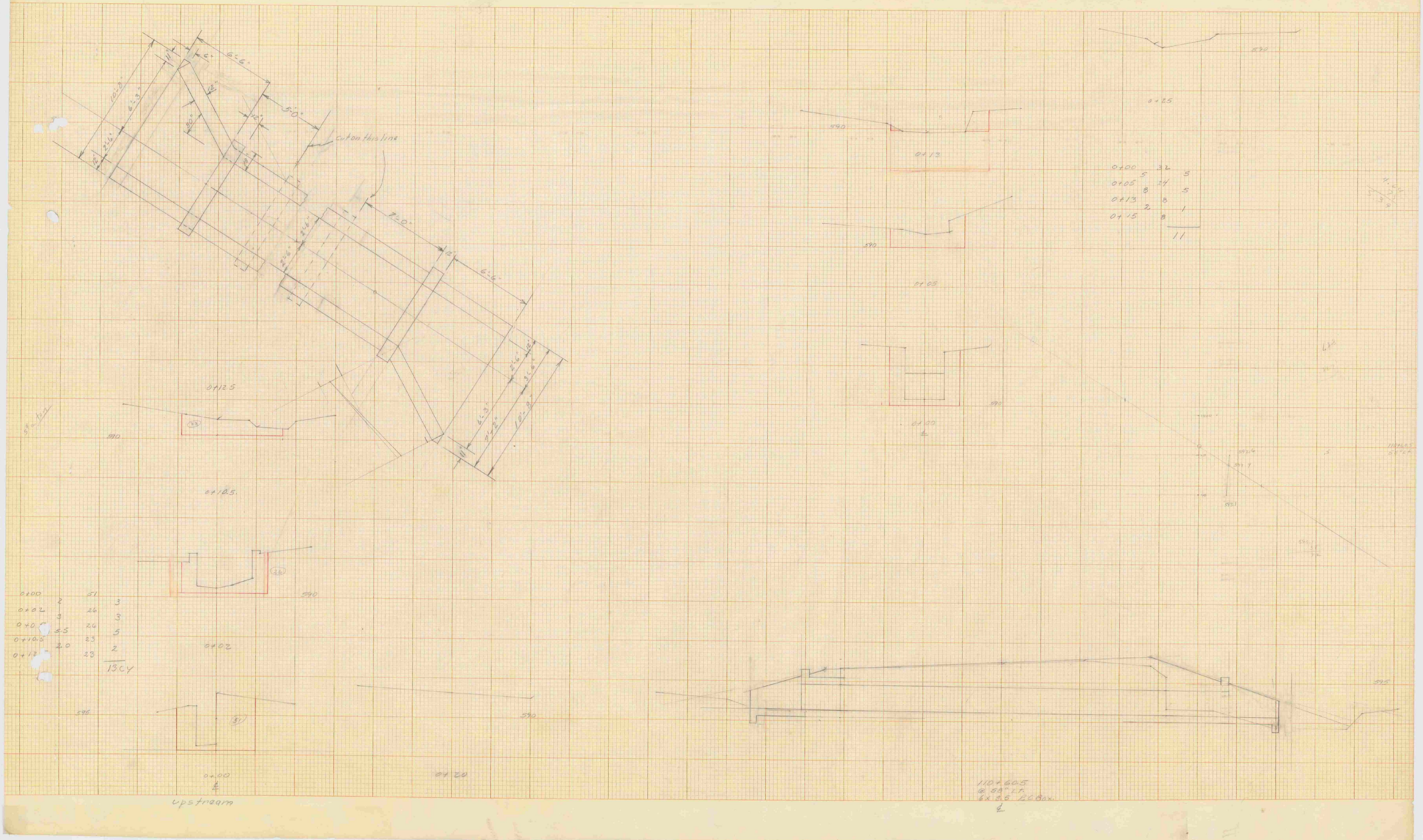
ALLOWABLE THICKNESS TOLERANCES

SUB-BASE	± 1
CONTROLLED MATERIAL	± 1"
PAVEMENT	± 1/4"

CITY OF BARRE

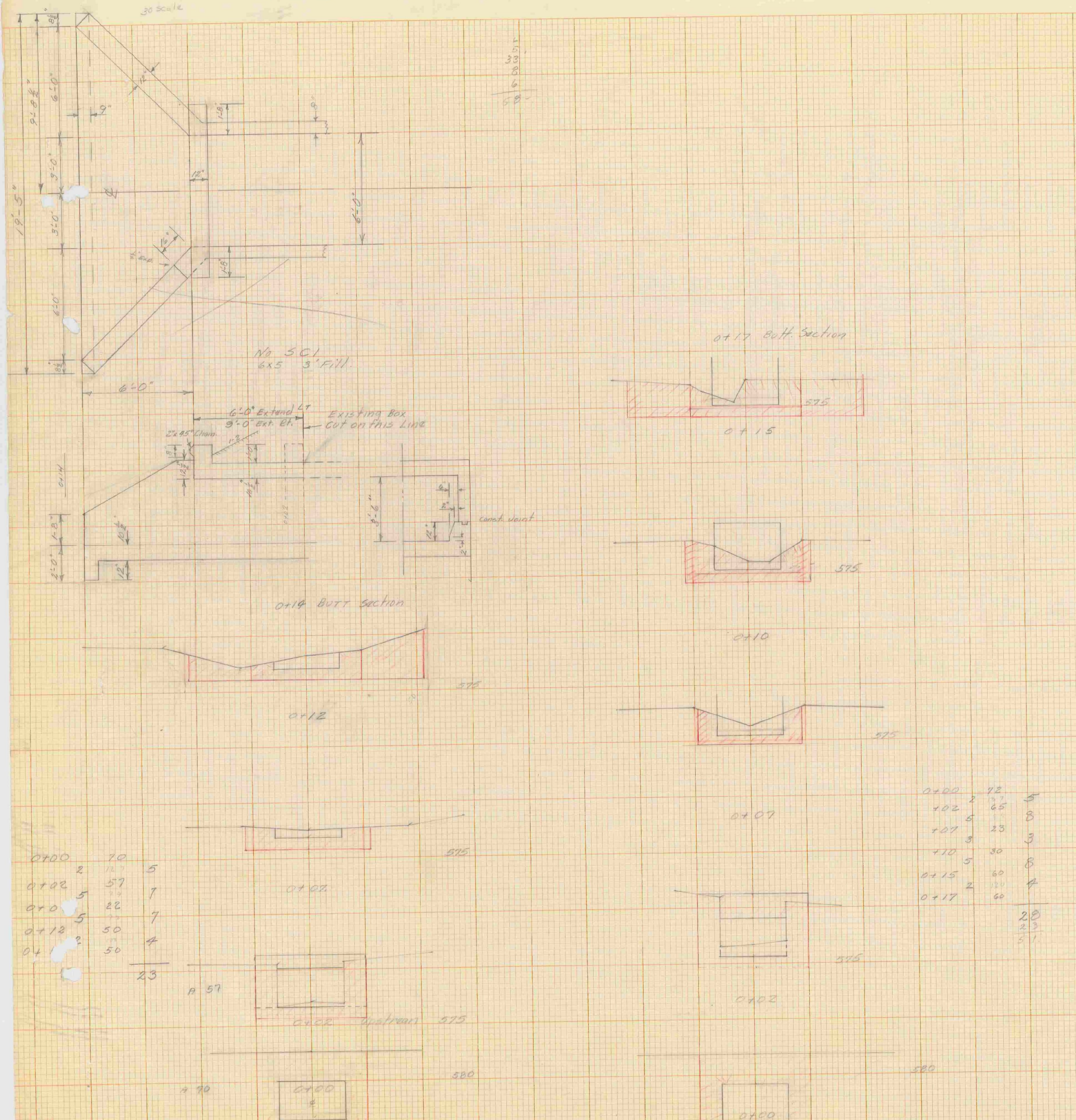
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

DRAWN BY: PERKINS
TRACED BY: RAH
PROJ. M No. 6000(3)
SHEET 5 OF 92



0+00		51	
	2		3
0+02		26	
	3		3
0+05		26	
	5.5		5
0+10.5		23	
	2.0		2
0+13		23	
			13 CY

0+00		32	
	5		5
0+05		24	
	8		5
0+13		8	
	2		1
0+15		8	
			11



upstream.

99+11.5
Structure

Downstream

Waterbury - Stowe
F 116 (6)

Final

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

Waterbury - Stowe F. A. P. No. F116(6)

Form Eng. 1 A EARTHWORK SHEET NO. 1 19 49-50

REVISIONS

VOLUMES

Computed by
Checked by

VERTICAL CURVES

Computed by
Checked by

GRADES

Computed by
Checked by

SUMMARY OF BALANCES

Station	to Station	Total Excav. Earth & Rock Cu. Yds.	Rock Excav. Cu. Yds. (Ded. Rock)	(Net Diff.)	Embankment Cu. Yds.	Excesses Cut (Net Diff. Fill)	Excesses Fill	Accumulative Excesses Cut (Net Diff S.B.)	Accumulative Excesses Fill (Net Diff CH)	Channel	Shaping Course of Gravel Cu. Yds.
47+0	50+0	282	19	-134	638	-191		-56			277
50+0	55+0	465	37	+42	610	-204		-5			323
55+0	60+0	467		+96	240	-9		-40			483
60+0	65+0	360		+94	8	+8		+17	260		321
65+0	70+0	617	57	+84	157	-141		-14			330
70+0	75+0	53		+22	86	-82		-52			20
75+0	80+0	47		+22	185	+11		-52			82
80+0	85+0	800	693	+83	338	+49		-49			110
85+0	90+0	505	302	+182	151	+150		+12			108
90+0	95+0	250	95	+41	454	+174		-21	-27	92	287
95+0	100+0	209		+40	890	-266		-134	-78	247	363
100+0	105+0	596		+198	500	-243		+75	-366	140	317
105+0	110+0	87		-12	507	-22		-155	-330	551	180
110+0	115+0	491		+63	1061	-253		-10	-78	507	551
115+0	120+0	427		+33	754	-105		+10	-0	0	465
120+0	125+0	612	40	-23	393	+36		+19	+44	356	602
125+0	130+0	470		-66	655	+50		-38	-70	170	557
130+0	135+0	493		-27	48	-3		-17			509
135+0	140+0	492		-41	243	+185		+97		3	686
140+0	145+0	1159	426	+266	156	+70		+92			653
145+0	150+0	429		+68	339	-36		+112			915
150+0	155+0	425		+60	300	-61		+173			1043
155+0	160+0	577	33	-19	1045	-153		-23			661
160+0	165+0	440		+45	652	-138		-73			573
165+0	170+0	503		+108	120	-16		-28			453
170+0	175+0	414		+49	2263	+1059		+30			561
175+0	180+0	841	688	-187	2075	+1040		+54			478
180+0	185+0	453		+160	1448	+78		+41			508
185+0	190+0	534		+271	530	-92		+29			419
190+0	195+0	295		+23	0	0		-44			344
195+0	200+0	416		+37	11	+11		-53			421
200+0	205+0	618	15	+33	9	+2		+10			467
205+0	210+0	1002	326	+71	212	-50		0			492
210+0	215+0	933	74	+341	323	-24		+63			600
215+0	220+0	504		+38	742	+33		+166			715
220+0	225+0	909		+63	182	+47		+166			691
225+0	230+0	530		+96	238	-245		+68			652
230+0	235+0	929		+76	746	+211		+182			733
235+0	240+0	660		+76	175	-80		+69			652
240+0	245+0	434		-36	983	+644		+113			710
245+0	250+0	495		+60	222	-27		+33			701
250+0	255+0	574		-68	81	+7		+125			747
255+0	260+0	500		+91	593	-252		+44			600
260+0	265+0	724		-27	289	+19		+206			839
265+0	270+0	932		-86	378	+208		+217			733
270+0	275+0	350		-2	329	-92		+58			739
275+0	280+0	478		+89	1754	+328		-11			701
280+0	285+0	1547		-258	98	0		+19			561
285+0	290+0	821		-46	438	+12		+98	-42	37	639
290+0	295+0	495		-14	566	+218		+76	+82	130	734
295+0	300+0	604		-56	83	-8		+1		167	494
300+0	305+0	499		+51	250	-103		-22			489
305+0	310+0	631	55	-92	2	-33		-79			414
310+0	315+0	534		+102	233	-102		-46			491
315+0	320+0	338		+29	306	-59		-107			451
320+0	325+0	333	30	+79	261	-23		-23			500
325+0	330+0	631	54	+82	36	+28		-35			427
330+0	335+0	472	70	+44	332	+68		-54			417
335+0	340+0	333	141	+2	274	+67		-23			517
340+0	345+0	538		-99	33	+30		-116			484
345+0	350+0	1293	589	+227	405	-86		-57			513
	Sub-Total	34,384	3714		29,268				-865	2,230	31,783

SUMMARY OF BALANCES

Station	to Station	Total Excav. Earth & Rock Cu. Yds.	Rock Excav. Cu. Yds.	(Net Diff.)	Embankment Cu. Yds.	Excesses Cut (Net Diff Fill)	Excesses Fill	Accumulative Excesses Cut (Net Diff SB)	Accumulative Excesses Fill (Net Diff)	Channel	Shaping Course of Gravel Cu.
350+0	355+0	675	220	+162	624	+6		+56			640
355+0	360+0	1644		-396	190	+83		-145			479
360+0	365+0	580		-16	171	+73		+74			554
365+0	370+0	423		+68	198	+70		-17			513
370+0	375+0	389	22	-60	128	+96		-32			492
375+0	380+0	464		-58	296	+1		+26	+6	143	541
380+0	385+0	369		-73	154	-33		-56	-162	369	481
385+0	390+0	332		-76	630	+111		-114	+185	185	406
390+0	395+0	624		-93	737	+96		-64			501
395+0	400+0	468		+21	362	+16		+24			526
400+0	405+0	644		-168	1219	+207		-25			532
405+0	410+0	639		-330	280	-3		-312			610
410+0	415+0	418		+34	854	+17		-17			639
415+0	420+0	448	49	-28	473	+96		-51			422
420+0	425+0	460	125	+21	919	+297		-38			457
425+0	430+0	614		-232	227	+80		-17			520
430+0	435+0	731		-116	72	+48		-128			463
435+0	438+0	392		+400	58	-24		-83			265
444+0	445+0	70		+3	0	-3		-6			81
445+0	450+0	381		+7	203	+51		-57			464
450+0	455+0	402		0	329	+2		-54			460
455+0	460+0	570		+30	253	+120		+18			530
460+0	465+0	458		+45	202	-124		+25			598
465+0	470+0	684		+24	934	+321		-14			620
470+0	475+0	425		+14	135	-16		-112			570
475+0	480+0	393		+6	675	-268		-82			581
480+0	485+0	452		+36	1142	+117		-81			553
485+0	490+0	572	25	+152	1427	-67		-124			53
Sub-Total		49,705	4185		42,160				-836	2927	45,815

SUMMARY BY COLUMNS

Sheet No.	Col. No.	Excavation Total Cu. Yds.	Excavation Rock Cu. Yds.	Embankment Cu. Yds.	Shaping Course of Gravel Cu. Yds.
1	1	1374		1496	1425
	2	1218		457	639
	3	1420		1659	773
2	1	1605		2961	1537
	2	2064		1314	2309
	3	2532		1783	3282
3	1	2238		7203	2123
	2	1445		1982	1431
	3	2661		497	1616
4	1	3045		1892	2925
	2	2311		1469	2966
	3	2491		1556	2943
5	1	3609		2834	2835
	2	2031		659	1752
	3	1872		597	1605
6	1	2891		1140	1802
	2	3162		1068	2368
	3	1751		1510	1914
7	1	2333		3034	2452
	2	2407		1699	1907
	3	1696		837	1795
8	1	2153		1959	2639
	2	1478		2753	1593
	3	597		707	708
Totals		50,384		43,066	47,339

REMARKS

Total Excav. (Earth and Rock) 50384
Total Rock Excav. 4528
Bal. Earth Excav. 45856

Total Planim. Fill 43066
Factor
Fill incl. Factor 48163
Total Excav. (Earth and Rock).
Borrow

Shaping Course 47,339

Total Excav. (Earth and Rock) 50,384
Total Fill incl. Factor
Excess cut

Material Available for Fill
Net earth 45,856
Rock factored 1.4 = 6339
Underdrain Excav. 50
Channel Excav. 3168

Sub-total 55 413
less waste 5 000
50 413

$\frac{50,413}{43\,066} = 1.1705$

52880
4734
48146

Final

STATE OF VERMONT **DEPARTMENT OF HIGHWAYS**

Waterbury - Stowe F. A. P. No. F 116 (6)

Form Eng. 1 A EARTHWORK SHEET NO. 2 1949-50

SUMMARY OF BALANCES											SHAPING COURSE OF GRAVEL
STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CU. YDS.	ROCK EXCAV. CU. YDS.	EMBANKMENT CU. YDS.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL	Channel		CU. YDS.
			Net Diff Cut				Net Diff S.B.	Net Diff Ch			
490+0	495+0	351	+55	199	-16		-18				461
495+0	500+0	364	+7	219	+215		-81				388
500+0	505+0	362	+5	439	+433		-124				377
505+0	508+0	202	-15	49	+12		+4				298
			+1559		3173						
	TOTAL	50,384		43,066				-836	2,927		47,339

SUMMARY OF BALANCES										SHAPING COURSE OF GRAVEL
STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CU. YDS.	ROCK EXCAV. CU. YDS.	EMBANKMENT CU. YDS.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL		CU. YDS.

SUMMARY BY COLUMNS					
SHEET NO.	COL. NO.	EXCAVATION TOTAL CU. YDS.	EXCAVATION ROCK CU. YDS.	EMBANKMENT CU. YDS.	SHAPING COURSE OF GRAVEL CU. YDS.

REMARKS

Total Excav. (Earth and Rock)
Total Rock Excav.
Bal. Earth Excav.

Total Planim. Fill
Factor
Fill incl. Factor
Total Excav. (Earth and Rock).
Borrow

Shaping Course

Total Excav. (Earth and Rock)
Total Fill incl. Factor
Excess cut

REVISIONS

VOLUMES
Computed by
Checked by

VERTICAL CURVES
Computed by
Checked by

GRADES
Computed by
Checked by

State of Vermont — **Department of Highways**

Waterbury - Stowe — ~~F.A.P.~~ No. F 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 8 — 1949

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		0+00												
		+09.5					Sta. 0+10 Project Begins Begin Non-Govt. Participation							
		+30												
		+50												
		+67												
		1+00												
		+25												
		+50												
		+75												
		2												
		+08												
		+18												
		+29												
		+35												
		+50												
		+70												
		+78												
		+87												
		3												
		+04												
		+15												
		+50												
		+76												
		4												
		+50												
		+68												
		5												
		+35												
		+50												
		+56												
		CARRIED FORWARD												
		COLUMN FOOTINGS												

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		5+56												
		+64				34								
		+90												
						10								
		6												
						50								
		+50												
											C	239		
		+59									R	31		
						50					F	0		
		+73									SB	188		
											Fac.	1.20		
		7									Exc.C	239		
						50								
		+50												
						50								
		8					0		0				0	
		+27				50		38		6				31
		+50					41		6				34	
						40		62		9				50
		+90					42		6				34	
						10		16		2				13
		9					46		6				34	
						32		54		7				40
		+32					45		6				34	
						18		29		4				23
		+50					43		6				34	
						25		27		3				21
		+75					16		0				12	
						25		13						10
		10					11						9	
						10		3						2
		+10					7						4	
						40		9						6
		+50					5		C	146			4	
						50		11	R	0				8
		11					7		F	135			5	
						29		8	SB	163				5
		+29					7		Fac.	1.20			5	
						13		4	Exc.F.	16				3
		+42					10						9	
						8		2						2
		+50					4				0		5	
						32		6				1		7
		+82					6				2		6	
						6		1				1		2
		+88					7				3		8	
						6		2				1		2
		+94					7				3		7	
						6		2				1		2
		12					7				2		7	
						50		9				6		13
		+50					3				5		7	
						20		4				3		5
		+70					7				2		6	
						15		3				2		4
		+85					4				5		7	
						12		2				2		3
		+97					4				5		7	
						28		7				3		10
		13+25					10				0		12	
						25		10						10
		+50					12						10	
		CARRIED FORWARD						83				20		84
		COLUMN FOOTINGS						322		31		20		272

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

State of Vermont — Department of Highways

Waterbury - Stowe — ~~F.A.P.~~ No. F 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 9 — 19 49

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		13+50					10						12	
						50		21						20
		14					13						10	
						12		5						6
		+12					8				0		16	
						38		14				42		23
		+50					12				60		16	
						18		9				29		11
		+68					14				27		16	
						8		4				11		5
		+76					11				50		16	
						24		10				33		14
		15					12				24		16	
						50		12				22		17
		+50					1				0		2	
						50		1						2
		16					1						0	
						20		1	C	25				1
		+20					2		R	0	0		2	
						30		2	F	1050		51		5
		+50					1		SB	107	92		7	
						31		2	Fac.	1.20		156		10
		+81					2		Exc.F.	1235	180		11	
						19		1				120		8
		17					0				160		12	
						50						303		19
		+50					0				167		8	
						50		2				264		11
		18					2				118		4	
						50		3				109		4
		+50					1				0		0	
						10		1				4		1
		+60					0				20		6	
						40						15		7
		19									0		4	
						50								9
		+50									0		6	
						50						6		13
		20									7		8	
						50						47		12
		+50									44		5	
						50						94		10
		21							C	0	58		6	
									R	0				
		+11				50			F	586		106		12
									SB	87				
		+50							Fac.	1.20	56		7	
						50			Exc.F.	703		107		12
		22									60		6	
						50						117		12
		+50									66		7	
						50						88		9
		23									29		3	
						50						27		6
		+50									0		4	
						50								6
		24											2	
						50								5
		+50											3	
						50								3
		25											0	
						50								
		+50												
						5								
		+55												
						17.5								
		+72.5												
		CARRIED FORWARD						0				0		0
		COLUMN FOOTINGS						88				1751		273

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		25+72.5					0						0	
						10.5		2						3
		+83					12				0		14	
						17		9				1		9
		26					15				2		14	
						50		35				2		25
		+50					23				0		13	
						30		13						7
		+80					0						0	
						17								
		+97												
						11								
		27+08							C	59				
									R	0				
		+38				42			F	56				
									SB	63				
		+50							Fac.	1.20	0		0	
						50			Exc.F	8		1		2
		28									1		2	
						9						1		1
		+09									5		3	
						41						14		4
		+50									14		2	
						20						10		1
		+70									13		2	
						30						7		2
		29									0		2	
						25								2
		+25									0		2	
						25						1		2
		+50									2		2	
		+81				50						19		5
		30									18		3	
		+28				40						14		4
		+40									0		3	
						10								2
		+50					0		C	37	0		5	
						40		26	F	64		4		7
		+90					35		SB	71	6		5	
						10		11	Fac.	1.20		2		2
		31					25		Exc.F.	40	7		6	
		+46				50						6		9
		+50									0		4	
		+99				50								7
		32											4	
		+48				75								11
		+75									5		4	
						25						3		4
		33									2		4	
						50						11		7
		+50									10		4	
						50						16		7
		34									7		4	
		+31				50						7		7
		+50									1		4	
		CARRIED FORWARD						37				63		67
		COLUMN FOOTINGS						96				119		130

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

State of Vermont — Department of Highways

Waterbury - Stowe

~~F. A. P.~~ No. F 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 10 — 1949

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		34+50									1		4	
						25						1		2
		+75									0		1	
						25								2
		35											3	
						30								6
		+30									0		7	
						20						5		5
		+50					0		C	9	14		6	
						50		1	F	18		13		16
		36					1		SB	45	0		11	
						50		5	Fac.	1.20				14
		+50					4		Exc.F.	13			4	
						37		3						3
		+87					0						1	
						13								1
		37											3	
		+42												
		+50												
		38												
		+30												
		+50												
		+55												
		+93												
		+98												
		39+10												
		+27												
		+50												
		+75												
		40												
		+25												
		+50												
		+75												
		41												
		+24												
		+25												
		+50												
		42												
		+35												
		+50												
		43												
		+19												
		CARRIED FORWARD						0				0		0
		COLUMN FOOTINGS						9				19		49

Sta. 37+00
Project Stops
End Non-Govt. Participation

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		43+19												
		+50												
		+75												
		44												
		+50												
		45												
		+50												
		46												
		+42												
		+50												
		+75												
		47					14				91		31	
		+27				50		86				179		58
									C	411				
		+50					79		R	14	102		32	
						50		131	F	829		189		56
		48					63		SB	333	102		28	
						50		72	Fac.	1.20		185		52
		+50					15		Exc.F.	584	98		28	
		+67				50		31				111		56
		49					19		0		22		32	
						50		39		5		63		56
		+50					23		5		46		29	
						28		27		4		33		30
		+78					29		3		18		29	
						22		25		5		9		25
		50					32		9		4		32	
						29		33		8		5		34
		+29					29		6		5		32	
						21		24		2		2		24
		+50					32		0		1		29	
						30		28				4		36
		+80					18				7		35	
						20		14				5		23
		51					19		C	396	6		28	
						24.2		17	R	10		13		24
		EQ. {+24.2= +7.6 {+16.6					19		F	814	24		26	
						33.4		22	SB	528		19		33
		+50					17		Fac.	1.20	6		28	
						50		30	Exc.F.	581		6		45
		52					15				0		21	
		+10				50		28				25		47
		+50					15				27		30	
						50		33				53		54
		53					21				30		28	
						50		36				106		52
		+50					18				85		28	
						50		46				180		52
		54					32				109		28	
						50		47				209		52
		+50					19				117		28	
		CARRIED FORWARD						358		10		627		476
		COLUMN FOOTINGS						769		24		1456		809

Sta. 47+00
Project Resumes
Begin Govt. Participation

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

(R)

State of Vermont — Department of Highways

WATERBURY - Stowe — F. A. P. No. F 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 11 — 1949

Profile: V.C.	% Grade	Station	Elevation: On Grades	On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock: Area	Cu. Yds.	Balance and Rock Excavation: Area	Cu. Yds.	Embankment: Area	Cu. Yds.	Shaping Course of Gravel: Area	Cu. Yds.
		54+50					19				117		28	
						50		38				187		52
		55					22				85		28	
		+44				50		36				124		49
		+50					17				49		25	
						50		24				76		46
		56					9				33		25	
						50		31				31		46
		+50					25		C	371	1		25	
						50		44	F	249		1		49
		57					22		SB	523	0		28	
						50		39	fac	1.2				50
		+50					20		Ex.C	72	0		26	
		+52				50		37						54
		58					20				0		32	
						25		21				1		29
		+25					25				1		30	
		+50				75		62				1		85
		59					20				0		31	
						14		11				3		19
		+14					22				11		41	
						16		15				3		23
		+30					30				0		38	
						20		18				3		25
		+50					18				7		31	
		+94				50		33				6		48
		60					18				0		21	
						50		31						33
		+50					16						15	
						50		29						30
		61					15						17	
						137		7						8
EQ	-1.8	+15.5 +13.7=					14						16	
						235		13						14
		+39					15		C	266			17	
						11		7	SB	304				7
		+50					19		fac	1.2			16	
						25		17	ExC	-222				15
		+75					18						17	
						13		6						6
		+88					8						9	
						12		4						4
		62					8						10	
						50		15						19
		+50					8						10	
						50		15						22
		63					8						14	
						28		8						12
		+28					8						9	
						22		10						11
		+50					16						18	
						50		30						34
		64					16						19	
		+02				50		30						36
		+50					16						20	
						27		21						26
		+77					25						32	
					CARRIED FORWARD			243				0		277
					COLUMN FOOTINGS			652				436		852

Profile: V.C.	% Grade	Station	Elevation: On Grades	On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock: Area	Cu. Yds.	Balance and Rock Excavation: Area	Cu. Yds.	Embankment: Area	Cu. Yds.	Shaping Course of Gravel: Area	Cu. Yds.
		64+77					25						32	
						23		23						27
		65					29						32	
						50		48						50
		+50					23						22	
						50		101						41
		66					86						22	
						20		63						16
		+20					83		C	476			21	
						30		66	F	298				24
		+50					33		SB	344	0		22	
						50		58	fac	1.2		1		44
		67					30		Ex.C	-118	1		26	
						50		53				1		47
		+50					27				0		25	
						50		43						44
		68					19				0		22	
		+44				50		20				39		32
		+50					3				42		13	
						50		4				80		18
		69					1				44		6	
						50		6				93		15
		+50					6				56		10	
						50		14				84		13
		70					9				35		4	
						50		11				67		15
		+50					3				37		12	
						50		4				38		15
		71					1				4		4	
						50		2				13		11
		+50					1		C	31	10		8	
									F	168				
		+57				50		2	SB	72		15		9
									fac.	1.2				
		72					1		Ex.F	-171	6		2	
						50		2				8		4
		+50					1				3		2	
						50		2				4		4
		73					1				1		2	
						50		2				5		3
		+50					1				4		1	
						50		2				11		2
		74					1				8		1	
						50		2				7		3
		+50					1				0		2	
						50		2						6
		75					1						5	
						50		2						9
		+50					1				0		5	
						50		2				7		11
		76					1				8		7	
						50		2				16		12
		+50					1		C	25	9		6	
						50		2	F	174		15		8
		77					1		SB	134	7		3	
						50		2	fac	1.2		19		17
		+50					1		Ex.F	-184	13		15	
						50		2				28		21
		78					1				17		8	
						50		2				31		16
		+50					1				17		9	
						50		2				29		15
		79					1				14		7	
					CARRIED FORWARD			16				145		109
					COLUMN FOOTINGS			546				611		552

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

State of Vermont Department of Highways

WATERBURY - STOWE F. A. P. No. F 116 (6)

FORM ENG. 1A EARTHWORK SHEET NO. 12 1949

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		79+00					1				14		7	
		79+11.5				50		2				21		13
		+50					1				9		7	
						15		1				4		4
		+65					1				6		7	
						35		6				4		8
		80					8		0		0		5	
						50		29		20				14
		+50					23		22				10	
						25		32		31	C-430			8
		+75					46		45		R-406		8	
						25		50		49	F-289			8
		81					62		61		SB-159		9	
						25		50		50	Fac.-1.2			10
		+25					47		47		Ex C-83		12	
						25		35		34				11
		+50					28		27		0		11	
						50		48		46		20		20
		82					24		23		22		11	
						25		42		41		19		9
		+25					67		66		18		9	
						25		45		44		21		10
		+50					30		29		27		13	
						25		28		27		18		10
		+75					30		29		11		9	
						25		19		19		5		8
		83					12		11		0		8	
		+25.4=				25.4		11		10				10
EΦ	-3.7	83+29.1					11		10				14	
						20.9		9		8				8
		+50					12		11				7	
						50		20		19				16
		84					10		9		0		10	
						50		10		8		103		12
		+50					1		0		111		3	
						50		2				103		5
		85					1				0		2	
						50		2	0					6
		+50					1						4	
		+52.5				35		13		11				7
											C-291			
		+85					19		17		R-270		7	
						15		15		14	F-1			4
		86					36		35		SB-96		7	
						25		41		40	Fac.-1.2			7
		+25					53		52		Ex.C-290		8	
						25		41		40				6
		+50					36		35				5	
						36		42		41				7
		+86					27		26				5	
						14		18		17				3
		87					42		41				7	
						32		54		53				7
		+32					49		48				5	
						18		27		26				4
		+50					31		30				7	
						50		30		28				11
		88					1		0				5	
						50		2						6
		+50					1						1	
						50		2						5
		89					1						4	
						50		2						9
		+50					1				0		6	
						50		2				1		14
		90					1				1		9	
		CARRIED FORWARD						0		0		0		0
		COLUMN FOOTINGS						730		676		319		280

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		90					1				1		9	
						50		2				12		16
		+50					1				12		8	
									C-138					
		+60				50		2	R-24			18		10
									F-280					
		91					1		SB-308		7		3	
						50		2	Fac.-1.2			6		4
		+50					1		Ex-F-198		0		1	
						25		1						1
		+75					1						2	
						25		5						7
		92					9				0		13	
						50		16				21		31
		+50					8		0		23		20	
						50		15		1		32		36
		93					8		1		12		19	
						25		13		6		12		18
		+25					19		13		14		20	
						25		15		7		19		19
		+50					14		3		26		21	
						27		15		6		21		21
		+77					16		9		16		21	
						23		10		4		20		22
		94					7		0		31		30	
						50		19				59		59
		+50					13				33		34	
						50		23				60		64
		95					12				32		35	
		+47				50		16				118		63
		+50					5				95		33	
						50		15	C-169			155		56
		96					11		F-1156		72		27	
						50		17	SB-497			135		53
		+50					7		Fac.-1.2		74		30	
						50		14	Ex F-1218			126		57
		97					8				62		32	
						50		20				119		57
		+50					14				66		30	
						50		25				118		52
		98					13				61		26	
						50		24				95		46
		+50					13				42		24	
						25		12				59		27
		+75					12				85		35	
						25		11				42		25
		99					11				5		18	
						50		12				83		30
		+50					2				85		14	
		+89				50		3				106		31
		100					1				30		19	
						50		2				107		36
		+50					1				86		20	
						50		2				82		29
		101					1		C-398		3		11	
						50		11	F-743			6		19
		+50					11		SB-242		3		10	
						50		31	Fac.-1.2			6		23
		102					22		Ex F-494		3		15	
						50		46				4		25
		+50					28				1		12	
						50		85				105		22
		103					64				11.2		12	
		CARRIED FORWARD						177				310		154
		COLUMN FOOTINGS						484		24		1746		959

REVISIONS By | VOLUMES Computed by Checked by | VERTICAL CURVES Computed by Checked by | GRADES Computed by Checked by

State of Vermont — Department of Highways

WATERBURY-STOWE — F. A. P. No. F 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 13 — 1949

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		103					64				112		12	
						50		100				154		22
		+50					44				54		12	
						50		68				93		20
		104					29				46		10	
						50		34				95		21
		+50					8				57		13	
						50		19				91		25
		105					12				41		14	
						50		14				75		27
		+50					3				40		15	
		+85							C - 99 F - 529 SB - 335 Foc. - 1.2 Ex F - 536					
						50		4				54		29
		106					1				18		16	
						50		2				31		33
		+50					1				16		20	
						50		2				25		32
		107					1				11		15	
						50		2				51		31
		+50					1				44		18	
						50		2				57		28
		108					1				18		12	
						50		2				44		23
		+50					1				30		13	
						50		2				60		23
		109					1				35		12	
						50		23				69		44
		+50					24				40		35	
						50		46				63		65
		110					26				28		35	
						50		42				85		59
		+50					19				64		29	
		+60.5							C - 428 F - 1314 SB - 561 Foc. - 1.2 Ex F 1149					
						50		37				88		54
		111					21				31		29	
						50		37				61		59
		+50					19				35		35	
						50		37				79		68
		112					21				50		38	
						50		38				105		69
		+50					20				63		36	
						50		41				126		61
		113					24				73		30	
						50		53				152		52
		+50					33				91		26	
						50		60				199		52
		114					32				124		30	
						14		15				66		15
		+14					24				132		28	
						36		31				169		33
		+50					23				121		21	
		+67												
						50		37				184		39
		115					17				78		21	
						50		36				131		39
		+50					22				63		21	
						50		40	C - 394 F - 859 SB - 455 Foc. - 1.2 Ex F - 637			112		39
		116					21				58		21	
						50		38				57		39
		+50					20				4		21	
						50		36				55		39
		117					19				55		21	
						15		11				29		12
		+15					19				50		21	
		CARRIED FORWARD						161				384		168
		COLUMN FOOTINGS						909				2660		1152

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		117 +15					19				50		21	
						35		21				85		30
		+50					13				81		25	
						50		31				152		46
		118					20				83		25	
						50		39				137		46
		+50					22				65		25	
						5.7		5				14		5
	Eq = +10.1	118 +55.7 = 118 +45.6					20				66		25	
						4.4		3				11		4
		+50					21				64		25	
						50		41				60		48
		119					23				1		27	
						50		48				2		53
		+50					29				1		30	
						30		29				8		33
		+80					23				13		30	
						20		16				6		22
		120					19		0		3		29	
						22		33		9		1		26
		+22					61		22		0		35	
						28		70		39				34
		+50					74		54				31	
						25		56		38				28
		+75					48		27				29	
						25		57		13				30
		121					75		0		0		35	
		+24												
						50		93	C - 694 R - 99 F 357 SB 583 Foc. 1.2 Ex C - 266			33		67
		+50					25				36		37	
						50		56				44		64
		122					35				11		32	
						50		56				35		57
		+50					26				27		30	
						50		54				44		55
		123					32				21		29	
						50		58				46		54
		+50					31				29		29	
						50		52				65		54
		124					25				41		29	
						50		52				56		54
		+50					31				19		29	
		+73												
						50		57				33		60
		125					31				17		36	
						50		54				37		62
		+50					27				23		31	
						50		53				46		56
		126					30		C - 536 F - 605 SB - 575 Foc. - 1.2 Ex F - 190		27		30	
						50		60				47		57
		+50					35				24		32	
						50		55				44		58
		127					24				23		31	
						50		52				56		58
		+50					32				38		32	
						50		49				77		56
		128					21				45		29	
						50		51				83		56
		+50					34				45		31	
						50		64				67		58
		129					35				27		32	
						50		51				73		58
		+50					20				52		31	
		CARRIED FORWARD						489		0		530		519
		COLUMN FOOTINGS						1416		99		1362		1389

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

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State of Vermont **Department of Highways**

WATERBURY - STOWE F. A. P. No. F 116 (6)

FORM ENG. 1A EARTHWORK SHEET NO. 14 1949

REVISIONS By VOLUMES Computed by Checked by VERTICAL CURVES Computed by Checked by GRADES Computed by Checked by

STATION	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
129+50		20				52		31	
	50		47				75		56
130		31				29		30	
	50		54				29		56
+50		27				2		30	
	50		48				2		51
131		25		C - 520		0		25	
	50		53	F - 51					51
+50		52		SB - 526		0		30	
	50		60	Fac. - 1.2			3		56
132		33		Exc - C 459		3		30	
	50		56				10		55
+50		27				8		29	
	50		45				7		52
133		22				0		27	
	50		47						52
+50		29						29	
	25		25						27
+75		26						30	
	25		28						26
134		34						27	
	50		59						50
+50		30						27	
	19		17						18
+69		17						24	
	31		28						32
135		37						31	
	50		60						58
+50		33				0		32	
	50		65	C - 533			2		59
136		37		F - 58		2		32	
	50		63	SB - 589			6		59
+50		31		Fac. - 1.2		5		32	
	50		60	Ex C 463			5		59
137		34				0		32	
	50		61				2		59
+50		32				2		32	
	50		54				5		59
138		26				3		32	
	50		46				7		59
+50		23				5		32	
	50		40				11		59
139		20				7		32	
	50		40				8		59
+50		23				2		32	
	50		44				12		59
140		24				11		32	
+33	50		57				10		59
+50		38		9		0		32	
	50		108		65				53
141		79		61				25	
	50		143		106				46
+50		75		54				25	
	50		111		73				46
142		45		25				25	
	31		49		28				29
+31		41		24				25	
	19		28		8				19
+50		38		0				29	
	50		69						54
143		37						29	
	50		56						56
+50		24						32	
CARRIED FORWARD			621		280		10		362
COLUMN FOOTINGS			1721		280		194		1533

STATION	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
143+50		24		C - 747		0		32	
	50		45	R - 280			24		66
144		25		F - 86		26		39	
	50		42	SB - 561			34		69
+50		20		Fac 1.2		11		35	
	32		24				11		41
+82		21		Ex C - 644		7		34	
	18		15				7		23
145		23				14		34	
	50		44				40		72
+50		24				29		44	
	50		44	C - 361			51		81
146		24		F - 375		26		44	
	50		39	SB - 803			56		81
+50		18		Fac 1.2		34		44	
	50		31	Ex F - 89			57		81
147		16				28		44	
	50		30				43		81
+50		16				18		44	
	50		29				32		81
148		15				17		44	
	50		34				20		81
+50		22				5		44	
	50		37				18		82
149		18				14		45	
	50		35				26		82
+50		20				14		44	
	50		38				32		81
150		21				21		44	
	50		40				33		80
+50		22				15		42	
	50		43	C - 365			28		83
151		24		F - 361		15		48	
	50		40	SB 871			33		92
+50		19		Fac. 1.2		21		51	
	50		36	Ex F - 68			40		94
152		20				22		51	
	50		34				45		91
+50		17				27		47	
	50		33				43		88
153		19				19		48	
	50		33				32		90
+50		17				16		49	
	50		33				26		89
154		19				12		47	
	50		36				36		87
+50		20				27		47	
	50		37				45		77
155		20				22		36	
	50		35				54		66
+50		18				36		35	
	50		28	C - 523			110		65
156		12		R - 20		83		35	
	50		37	F - 1198			150		68
+50		28		SB - 684		79		38	
	50		64	Fac. 1.2			144		70
157		41		Ex F 915		77		38	
	50		90				96		69
+50		56		0		27		37	
	50		80		9		131		70
158		30		10		114		39	
	30		35		9		119		43
+30		33		6		100		38	
	20		22		2		68		27
+50		27		0		83		35	
CARRIED FORWARD			391		20		872		478
COLUMN FOOTINGS			1243		20		1684		2351

State of Vermont — Department of Highways

WATERBURY-STOWE — F. A. P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 15 — 1949

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course CU. YDS.
		158+50					27				63		35	
						50		47				129		67
		159					24				56		37	
						50		45				100		69
		+50					25				52		38	
						50		40				97		70
		160					18				53		38	
						50		37				110		69
		+50					22				66		36	
						50		42	C	395		125		69
		161					23		F	790	69		39	
						50		45	SB	666		135		72
		+50					26		Fac	1.2	77		39	
						50		40	ExF	553		134		72
		162					17				68		39	
						50		32				123		78
		+50					18				55		45	
						50		35				56		71
		163					20				5		32	
						35		27				3		45
		+35					22				0		38	
						15		12				1		20
		+50					22				2		35	
						50		46				14		61
		164					28				13		31	
						50		47				33		58
		+50					23				23		32	
						50		32				56		51
		165					17				37		23	
						50		22				57		41
		+50					12				25		21	
						100		60	C	395		50		100
		166+50					20		F	136	2		33	
						50		38	SB	481		2		59
		167					21		fac	1.2	0		31	
						50		39	ExC	232				50
		+50					21						23	
						50		38						42
		168					20						23	
						50		38						42
		+50					21						23	
						47.6		57						43
Eq=-32		168+97.6 = 169+00.8					44				0		26	
						49.2		61				7		49
		+50					23				8		28	
						50		42				20		55
		170					22				14		31	
						50		42				48		58
		+50					23				38		32	
						50		46	C	365		35		56
		171					27				0		29	
						50		42	F	1209				61
		+50					18		SB	531			37	
						50		34	Fac.	1.2				61
		172					19		Ex.F	1086			29	
						50		44						60
		+50					28				0		26	
						26		23				16		27
		+76					20				33		30	
						24		16				35		24
		173					17				45		25	
		+28				50		30				156		46
		+50					15				123		25	
					CARRIED FORWARD			277				290		393
					COLUMN FOOTINGS			1199				1542		1746

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course CU. YDS.
		173+50					15				123		25	
						50		29				229		46
		174					16				124		25	
						50		29				285		46
		+50					15				184		25	
						50		30				405		46
		175					17		0		253		25	
		+17				50		42		11		435		45
		+50					28		12		217		24	
						50		55		25		745		44
		176					31		15		588		24	
						50		54		14		888		44
		+50					27		0		371		24	
						50		40				594		43
		177					16				271		22	
						20		13				101		16
		+20					20				0		22	
						30		20	C	390				22
		+50					16		R	50			17	
						50		31	F	3035				32
		178					17		SB	424			18	
						50		34	Fac	1.2				38
		+50					20		ExF	3252	0		23	
						50		32				101		44
		179					15				109		25	
		+41				50		31				121		46
		+50					18				22		25	
						50		38				50		50
		180					23				32		29	
						50		39				60		54
		+50					19				33		29	
						36		19	C	293		47		30
		+86					10		F	1370	37		16	
						14		6	SB	467		17		8
		181					12		Fac	1.2	30		16	
									Ex.F	1351				
		+35				50		25				103		41
		+50					15	25			81		28	
						50						119		50
		182					12				48		26	
						50		26				104		48
		+50					16				64		26	
						50		30				140		46
		183					16				87		24	
						50		29				154		44
		+50					15				79		24	
						50		23				119		48
		184					10				49		28	
						50		30				176		50
		+50					22				141		26	
						50		41				331		48
		185					22				216		26	
						50		42				330		48
		+50					23				140		26	
						50		48	C	283		207		48
		186					29		F	622	84		26	
						50		33	SB	390		81		40
		+50					7		Fac	1.2	4		17	
						50		14	Ex.F	463		4		28
		187					8				0		13	
					CARRIED FORWARD			137		0		622		164
					COLUMN FOOTINGS			908		50		5946		1193

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State of Vermont — Department of Highways

WATERBURY - STOWE — F. ~~A.~~ P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 16 — 1949

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		187					8				0		13	
						50		17						27
		+50					10						16	
						10		5						9
		+60					15						33	
						40		25						40
		188					18						21	
						30		16						23
		+30					11						20	
						20		8						14
		+50					11						19	
						30		13						23
		+80					13						20	
						20		10						15
		189					14						21	
						50		26						38
		+50					14						20	
						50		26						37
		190					14						20	
						10		5						7
		+10					13						20	
						40		20	C	272				30
		+50					14		F	0			21	
						50		26	SB	388				42
		191					14		Fac.	1.2			24	
						50		26	ExC	272				40
		+50					14						19	
						18		8						13
		+68					11						19	
						32		16						24
		192					16						21	
						50		29						41
		+50					15						23	
						50		25						33
		193					12						13	
						27		18						20
		+27					14						28	
						23		10						19
		+50					9						17	
						18		8						15
		+68					15						27	
						32		18						28
		194					15						20	
						50		28						33
		+50					15						16	
						20		13						15
		+70					20						25	
						30		22						28
		195					20						26	
						15		11						14
		+15					20						25	
						35		26	C	379				34
		+50					20		F	0			27	
						17		13	SB	474				17
		+67					21		Fac.	1.2			27	
						33		26	ExC	379				32
		196					21						26	
						50		39						48
		+50					21						26	
						35		27						37
		+85					21						31	
						15		12						16
		197					21						26	
						50		39						45
		+50					21						23	
CARRIED FORWARD								193						243
COLUMN FOOTINGS								611						857

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		197+50					21						23	
						50		39						42
		198					21						22	
						50		37						44
		+50					19						26	
						50		37						49
		199					21						27	
						42		31						42
		+42					19						27	
						8		6						8
		+50					19						25	
						50		36						46
		200					20						25	
						50		35						45
		+50					18						24	
						50		34	C	602				45
		201					19		R	32	0		25	
						40		29	F	7		2		48
		+40					20		SB	457	3		40	
						10		7	Fac	1.2		1		12
		+50					20		ExC	594	1		24	
						38		29				1		32
		+88					21				1		22	
						12		10				1		11
		202					23				0		26	
						42		38						38
		+42					26						23	
						8		8						7
		+50					27						23	
						40		35						32
		+90					20						20	
						10		7						8
		203					18				0		22	
						50		45				1		46
		+50					31				1		28	
						50		91				1		47
		204					67				0		23	
						15		38						13
		+15					70						23	
						35		90						30
		+50					69		0				23	
						50		106		32				43
		205					46		35				23	
						25		45		30				21
		+25					51		30				23	
						25		44		27				21
		+50					44		28				23	
						20		32		19				17
		+70					41		24		0		23	
						30		40		20		5		28
		206					31		12		9		27	
						30		32		13		5		28
		+30					27		11		0		23	
						20		22		10				18
		+50					33		15		0		27	
						50		56		19		7		50
		207					28		5		8		27	
						38		38		17		14		37
		+38					26		19		12		25	
						12		9		4		7		10
		+50					14		0		21		21	
						50		59				39		46
		208					50				21		29	
						50		82				49		54
		+50					39				32		29	
CARRIED FORWARD								459		159		126		330
COLUMN FOOTINGS								1247		191		133		1018

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

State of Vermont — Department of Highways

WATERBURY-STOWE F. ~~A.~~P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 17 — 19

REVISIONS / By / VOLUMES / Computed by / Checked by / VERTICAL CURVES / Computed by / Checked by / GRADES / Computed by / Checked by

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		208+50					39		C	764	32		29	
						50		77	R	159		63		54
		209					44		F	262	36		29	
						50		104	SB	492		48		54
		+50					68		Fac.	1.2	16		29	
						50		124	Ex.C.	450		25		54
		210					66		0		11		29	
						50		99		23		35		54
		+50					41		25		27		29	
						50		70		38		44		54
		211					35		16		20		29	
						50		63		29		38		54
		+50					33		15		21		29	
						50		55		27		43		54
		212					26		14		25		29	
						50		60		13		49		54
		+50					39		0		28		29	
						50		77				52		54
		213					44				28		29	
						50		74				35		54
		+50					36		C	698	10		29	
						50		74	R	130		20		54
		214					44		F	347	12		29	
						50		80	SB	537		17		54
		+50					42		Fac	1.2	6		29	
						17		17	ExC	282		4		17
		+67					13				6		26	
						33		29				10		34
		215					35				10		29	
						50		53				19		53
		+50					22				10		28	
						50		39				38		56
		216					20		C	466	31		32	
						50		34	F	709		96		59
		+50					17		SB	549	73		32	
						50		31	Fac	1.2		124		59
		217					17		ExF	385	61		32	
						50		33				131		56
		+50					19				80		29	
						50		31				145		54
		218					14				77		29	
						50		27				92		54
		+50					15				22		29	
						50		42				34		54
		219					30				15		29	
						50		70				22		54
		+50					46				9		29	
						25		52				4		25
		+75					67				0		25	
						25		54				4		25
		220					49				8		29	
						50		121				8		54
		+50					82				1		29	
						50		153	C	846		2		54
		221					83		F	75	1		29	
						50		136	SB	525		3		54
		+50					64		Fac	1.2	2		29	
						50		89	ExC	756		6		54
		222					32				5		29	
						50		48				10		53
		+50					20				6		28	
						50		38				19		53
		223					21				14		29	
						50		42				16		54
		+50					24				3		29	
		CARRIED FORWARD						627		0		64		376
		COLUMN FOOTINGS						2096		130		1256		1624

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		223+50					24				3		29	
						50		41				5		51
		224					20				2		26	
						50		76				4		51
		+50					62				2		29	
						50		102				2		47
		225					48				0		22	
						25		38						22
		+25					34				0		25	
						25		36	C	454		1		28
		+50					43		F	483	2		35	
						50		65	SB	584		1		62
		226					27		Fac	1.2	0		32	
						50		43	ExF	126		74		66
		+50					19				80		39	
						50		38				107		67
		227					22				36		33	
						50		38				77		62
		+50					19				47		34	
						50		37				79		62
		228					21				38		33	
						50		40				61		59
		+50					22				28		31	
						50		40				38		54
		229					21				13		27	
						50		38				22		50
		+50					20				11		27	
						50		41				23		52
		230					24				14		29	
						50		55				72		54
		+50					35				64		29	
						50		93	C	853		83		54
		231					65		F	535	26		29	
						50		165	SB	551		31		54
		+50					113		Fac	1.2	7		29	
						50		173	Ex.C	211		40		54
		232					74				36		29	
						50		102				44		54
		+50					36				12		29	
						50		56				52		56
		233					24				44		32	
						50		46				91		59
		+50					26				54		32	
						50		51				81		57
		234					29				34		30	
						50		57				34		55
		+50					33				3		29	
						50		55				7		54
		235					26				5		29	
						50		47				10		54
		+50					25				6		29	
						50		53	C	584		9		54
		236					32		F	253	4		29	
						50		57	SB	583		9		56
		+50					30		Fac	1.2	6		31	
						50		62	ExC	280		16		58
		237					37				11		32	
						50		70				26		60
		+50					39				17		33	
						50		81				45		63
		238					49				32		35	
						50		74				46		62
		+50					31				18		32	
						50		51				40		58
		239					24				25		31	
		CARRIED FORWARD						495				201		465
		COLUMN FOOTINGS						2021				1230		1749

State of Vermont **Department of Highways**

WATERBURY - STOWE F. ~~A.P.~~ No. 116(6)

FORM ENG. 1A EARTHWORK SHEET NO. 18 1949

Station	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
239		24				25		31	
	50		45				33		58
+50		25				11		32	
	20		18				8		24
+70		23				10		32	
	30		26				11		36
240		23				10		33	
	50		45				17		61
+50		26				8		33	
	50		49	C	470		15		61
241		27		F	339	8		33	
	50		47	SB	597		18		61
+50		24		Fac	1.2	11		33	
	50		59	ExC	63		29		61
242		40				20		33	
	50		65				34		58
+50		30				17		30	
	50		48				31		56
243		22				16		30	
	50		38				31		55
+50		19				17		29	
	50		38				26		58
244		22				11		34	
	50		41				56		62
+50		22				50		33	
	50		40				82		64
245		21				39		36	
	50		36				70		67
+50		18				37		36	
	50		35	C	435		43		67
246		20		F	249	9		36	
	50		44	SB	668		13		67
+50		27		Fac	1.2	5		36	
	50		66	Ex.C	136		8		67
247		44				4		36	
	50		57				11		67
+50		18				8		36	
	50		37				25		67
248		22				19		36	
	50		34				37		67
+50		15				21		36	
	50		31				28		67
249		19				9		36	
	50		44				8		66
+50		28				0		35	
	50		51				6		66
250		27				6		36	
	50		56				10		67
+50		34				5		36	
	50		75	C	642		6		64
251		47		F	74	2		33	
	50		99	SB	622		4		61
+50		60		Fac.	1.2	2		33	
	50		103	ExC	553		6		61
252		51				4		33	
	50		73				13		61
+50		28				10		33	
	50		43				14		61
253		18				5		33	
	50		34				11		61
+50		19				7		33	
	50		38				8		61
254		22				2		33	
	50		69				2		61
+50		52				0		33	
CARRIED FORWARD			590				74		558
COLUMN FOOTINGS			1584				714		1941

Station	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
254+50		52				0		33	
	32		41						42
+82		17						38	
	18		11						22
255		16						29	
	50		33						46
+50		20		C	409			21	
	50		42	F	790				41
256		25		SB	556			23	
	50		45	Fac	1.2				40
+50		24		ExF	539			20	
	50		38						37
257		17				0		20	
	50		34				16		51
+50		20				17		35	
	50		39				40		65
258		22				26		35	
	50		40				149		68
+50		21				135		38	
	50		39				228		69
259		21				111		37	
	50		44				204		69
+50		26				109		38	
	50		55				153		70
260		33				56		38	
	50		56				86		70
+50		28				37		38	
	50		46	C	751		68		70
261		22		F	270	36		38	
	50		46	SB	633		40		73
+50		28		Fac	1.2	7		41	
	25		25	ExC	427		6		36
+75		27				5		36	
	25		25				3		32
262		26				0		34	
	50		58						64
+50		37						35	
	50		81						65
263		50				0		35	
	50		89				5		60
+50		47				5		30	
	50		84				14		55
264		44				10		29	
	50		100				20		54
+50		64				12		29	
	50		141				28		54
265		88				18		29	
	50		170				22		54
+50		96				6		29	
	50		170	C	1018		6		54
266		88		F	170	0		29	
	50		171	SB	566				54
+50		97		Fac	1.2			29	
	50		175	ExC	814				54
267		92				0		29	
	50		124				1		54
+50		42				1		29	
	50		52				19		55
268		14				19		30	
	50		27				41		57
+50		15				25		32	
	50		34				42		59
269		22				20		32	
	17		14				9		20
+17		21				7		32	
CARRIED FORWARD			937				140		461
COLUMN FOOTINGS			2149				1200		1714

State of Vermont — Department of Highways

WATERBURY-STOWE — F. A. P. No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 19 — 1949

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		269+17					21				7		32	
						33		26				12		39
		+50					21				12		32	
						50		55				18		66
		270					38				7		39	
						50		70				12		74
		+50					38				6		41	
						34		38				4		50
		+84					23				0		38	
						16		14				1		23
		271					23				3		39	
						50		40				17		69
		+50					20				15		36	
						50		36	C	382		37		65
		272					19		F	421	25		34	
						50		32	SB	681		57		65
		+50					16		Fac	1.2	37		36	
						50		27	ExF	123		81		66
		273					13				51		35	
						50		31				77		67
		+50					20				32		37	
						20		13				22		26
		+70					16				28		34	
						30		19				30		40
		274					18				26		38	
						50		31				45		67
		+50					16				23		34	
						50		31				38		69
		275					18				18		40	
						25		17				8		38
		+25					19				0		41	
						25		18				17		36
		+50					20				37		37	
						50		36				95		69
		276					19				66		37	
						50		34				163		69
		+50					18				110		37	
						50		31	C	389		156		69
		277					16		F	1426	58		37	
						50		43	SB	712		123		74
		+50					30		Fac	1.2	75		43	
						15		17	ExF	1322		37		21
		+65					32				57		34	
						35		38				37		46
		278					26				0		37	
						50		44				90		67
		+50					21				97		35	
						50		44				176		69
		279					26				93		40	
						50		36				256		74
		+50					13				183		40	
						50		31				268		80
		280					21				106		46	
						50		46				98		76
		+50					29				0		36	
						50		57						65
		281					33						34	
						50		59	C	1805				61
		+50					31		F	98			32	
						50		149	SB	542				55
		282					130		fac	1.2			27	
						50		231	Ex.C	1687				48
		+50					119						25	
						50		234						47
		283					134						26	
		CARRIED FORWARD						776				98		352
		COLUMN FOOTINGS						1628				1975		1850

V.C.	% Grade	Station	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
		283					134						26	
						50		236						48
		+50					121						26	
						50		308						47
		284					212						25	
						50		297						47
		+50					109						26	
						50		188						48
		285					94						26	
						50		146						47
		+50					64						25	
						50		123						44
		286					69						22	
						50		119						42
		+50					59						23	
						50		115						49
		287					65		C	867	0		30	
						50		80	F	426		44		47
		+50					21		SB	541	48		21	
						50		45	Fac.	1.2		97		53
		288					28		Ex C.	356	57		36	
						50		53				114		69
		+50					29				66		38	
						50		57				95		70
		289					33				37		38	
						33		37				32		34
		+33					27				15		18	
						17		21				11		17
		+50					39				19		35	
						50		71				33		69
		290					38				17		39	
						50		64				38		72
		+50					31				24		39	
						50		49				36		61
		291					22				15		27	
						50		44				29		59
		+50					26				16		37	
						50		44				36		68
		292					21		C	509	23		36	
						50		42	F	348		42		67
		+50					24		SB	708	22		36	
						50		48	fac	1.2		28		68
		293					28		ExC	91	8		37	
						50		50				14		92
		+50					26				7		62	
						50		48				42		94
		294					26				38		40	
						50		54				59		70
		+50					32				26		36	
						50		66				24		57
		295					39				0		26	
						50		75						46
		+50					42						24	
						50		86						44
		296					51						23	
						50		106						43
		+50					63						23	
						50		111	C	660				44
		297					57		F	91			24	
						50		66	SB	493				44
		+50					14		fac	1.2			23	
						50		38	Ex.C	552				44
		298					27				0		24	
						50		45				3		49
		+50					22				3		29	
		CARRIED FORWARD						527				3		314
		COLUMN FOOTINGS						2932				777		1753

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

FORM ENG. 1A

State of Vermont — **Department of Highways**

WATERBURY - STOWE — F. A. P. No. 116 (6)

EARTHWORK SHEET NO. 20 — 1949

Station	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
298+50		22				3		29	
	50		48				3		56
299		30				0		32	
	30		29				6		33
+30		22				11		28	
	20		17				6		24
+50		24				6		38	
	50		39				73		66
300		18				73		33	
	50		35				144		63
+50		20				83		35	
	50		35				143		61
301		18				62		31	
	50		35				70		57
+50		20				14		31	
	50		37				18		57
302		20		C	447	5		31	
	50		44	F	383		6		49
+50		27		SB	511	1		22	
	50		48	fac.	1.2		1		42
303		25		Ex F	13	0		23	
	50		54						41
+50		33						21	
	54		7						4
-32 Eq. +55.4 = 58.6		30						21	
	35.6		37						29
+91		26						23	
	9		8						8
304		23				0		25	
	50		44				5		49
+50		24				5		28	
	50		63				5		51
305		44				0		27	
	50		83				1		51
+50		46				1		28	
	50		85				1		51
306		46				0		27	
	50		86						51
+50		47		C	787			28	
	32		64	R	119				30
+82		61		F	35			23	
	18		27	SB	493				15
307		20		fac	1.2	0		21	
	50		81	Ex.C	745		4		46
+50		68				4		29	
	30		63				3		31
+80		45				2		27	
	20		33				4		20
308		45				8		27	
	20		32				3		20
+20		42		0		1		27	
	30		40		7		5		30
+50		30		12		8		27	
	50		58		32		8		50
309		33		23		1		27	
	25		34		24		2		25
+25		41		28		2		27	
	25		37		25		2		26
+50		38		25		2		28	
	50		64		31		2		47
310		31		8		0		23	
	50		51		7				43
+50		24		0		0		23	
	50		44		3		5		47
311		23		3		5		28	
CARRIED FORWARD			95		10		5		90
COLUMN FOOTINGS			1462		129		511		1273

Station	Dist.	Total Excavation Earth and Rock Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
311		23		3		5		28	
	50		46		3		13		52
+50		27		0		9		28	
	50		63		11		11		54
312		41		12		3		30	
	50		68		11		8		56
+50		32		0		6		31	
	50		54				22		57
313		26				18		31	
	50		42				47		57
+50		19		C	467	33		31	
	50		35	R	35		79		57
314		19		F	335	52		31	
	50		33	SB	537		85		57
+50		17		fac	1.2	40		31	
	50		31	ExC	65		65		57
315		16				30		31	
	50		31				48		57
+50		17				22		31	
	50		31				51		57
316		16				33		31	
	50		31				52		57
+50		17				23		31	
	50		28				43		57
317		13				23		31	
	50		28	C	309		35		57
+50		17		F	365	15		31	
	50		32	SB	558		31		56
318		18		fac	1.2	18		30	
	50		32	Ex.F	129		30		55
+50		17				14		29	
	50		30				20		54
319		15				8		29	
	50		31				15		54
+50		19				8		29	
	50		35				40		54
320		19				35		29	
	50		31				72		54
+50		14				43		29	
	50		26				73		54
321		14		C	516	36		29	
	48.8		30	R	34		35		53
Eq = -8.2 321+48.8 = 321+57.0		19		F	284	3		30	
	43		52	SB	523		2		45
322		46		fac	1.2	0		27	
	50		84	Ex.C.	175				50
+50		45				0		27	
	50		94				3		53
323		57		0		3		30	
	34		65		23		9		38
+34		46		37		11		31	
	16		19		11		8		18
+50		18		0		15		31	
	50		36				32		56
324		21				20		30	
	28		21				20		30
+28		19				18		27	
	22		17				10		22
+50		22				6		28	
	34		28				15		35
+84		22				18		27	
	16		13				5		15
325		21				0		23	
	25		19						21
+25		20						22	
CARRIED FORWARD			19						21
COLUMN FOOTINGS			1216		59		979		1549

State of Vermont — WATERBURY ~ STOWE

Department of Highways — F. A. P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 21 — 19

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		325+25					20						22	
						25		18						20
		+50					19						22	
						27		20						21
		+77					20						20	
						23		16	C	562				18
		326					17		R	67			23	
						50		33	F	28				44
		+50					19		SB	462	3		24	
						50		73	fac	1.2		3		51
		327					60		ExC	528	0		31	
						50		125						55
		+50					75		0				28	
						40		102		37				39
		+90					63		50				25	
						10		18		13				9
		328					33		18		0		25	
						50		44		17		2		46
		+50					15		0		2		25	
						50		29				6		46
		329					16				4		25	
						50		31				9		46
		+50					18				6		25	
						50		34				8		46
		330					19				3		25	
						50		34				9		46
		+50					18		0		7		25	
						33		33		12		4		31
		+83					36		19		0		25	
						17		21		12		3		16
		331					32		20		11		25	
						50		42		19		10		46
		+50					13		0		0		25	
						50		37			C	463		44
		332					27		0		R	105	22	
						42		61		19	F	264		37
		+42					51		25		SB	471	25	
						8		14		8	Fac	1.2		7
		+50					44		27		ExC	146	25	
						50		67		25				46
		333					28		0		0		25	
						50		45				1		47
		+50					21		0		1		26	
						25		21		5		1		23
		+75					25		11		2		24	
						25		20		5		4		23
		334					18		0		7		26	
						50		33				94		51
		+50					18				95		29	
						50		35				138		54
		335					20				54		29	
						50		38				67		55
		+50					21				18		30	
						50		38				20		53
		336					20		0		4		27	
						50		49		14		4		49
		+50					33		15		0		26	
						25		26		8				24
		+75					24		3				26	
						25		22		2				24
		337					23		2				26	
						25		21		1				24
		+25					22		0				26	
						25		35		13				24
		+50					53		27				25	
		CARRIED FORWARD						229		38		91		253
		COLUMN FOOTINGS						1235		210		383		1165

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		337+50					53		27				25	
						25		40		18				25
		+75					34		11		C	581	28	
						25		31		10	R	171		27
		338					32		11		F	107	31	
						25		39		20	SB	540		28
		+25					53		32		fac	1.2	30	
						25		55		33	ExC	453		28
		+50					65		39				31	
						25		48		25				30
		+75					39		16				33	
						25		35		14				31
		339					37		14		0		34	
						50		57		13		7		60
		+50					25		0		7		31	
						50		47				9		58
		340					26				3		32	
						50		46				3		60
		+50					24				0		33	
						50		44						63
		341					24						35	
						50		43						60
		+50					22		C	637			30	
						50		54	F	3				56
		342					36		SB	600			31	
						50		77	fac	1.2				67
		+50					47		ExC	633			41	
						50		81						67
		343					40						31	
						50		79						57
		+50					45						31	
						50		76						58
		344					37						32	
						50		69						57
		+50					38						30	
						50		68						55
		345					35				0		29	
						50		76				1		53
		+50					47				1		28	
						50		64				1		48
		346	C	665			22		0		0		24	
			R	186		50		53		1		6		53
		+50	F	491			35		1		6		33	
			SB	570		50		67		7		20		61
		347	fac	1.2			37		7		16		33	
			ExC	76		50		61		15		30		60
		+50					29		9		16		32	
						50		54		14		31		59
		348					29		6		18		32	
						50		81		45		61		59
		+50					59		43		48		32	
						25		41		29		46		30
		+75					28		19		51		32	
						25		41		28		46		29
		349					60		42		49		32	
						35		70		41		85		41
		+35					48		22		82		32	
						15		20		6		43		18
		+50					23		0		71		32	
						50		37				121		59
		350					17		0		60		32	
						50		39		3		103		59
		+50					25		3		51		32	
						25		29		15		45		30
		+75					37		30		46		32	
		CARRIED FORWARD						68		18		148		89
		COLUMN FOOTINGS						1722		337		658		1546

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

State of Vermont — Department of Highways

WATERBURY - STOWE — F. A. P. No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 22 — 19

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		350+75					37		30		46		32	
						25		35		25		41		30
		351					38		23		42		32	
						30		43		26		43		36
		+30					40		24		36		32	
						20		21		9		24		24
		+50					17		0		30		32	
						50		28				79		56
		352					13				55		29	
						50		28				88		56
		+50					17				40		32	
						50		33	C	371		44		59
		353					19		R	78	8		32	
						50		31	F	618		26		57
		+50					14		SB	584	20		30	
						25		12	Fac.	1.2		11		29
		+75					11		Ex. F	371	3		32	
						25		13				14		30
		354					18				28		32	
						50		30				44		59
		+50					14				20		32	
						50		29				56		59
		355					17				40		32	
						50		33				66		59
		+50					19				31		32	
						50		88				29		69
		356					76				0		42	
						50		238						76
		+50					181						40	
						50		271						80
		357					112		C	2040			46	
						50		237	F	107				81
		+50					144		SB	624	0		42	
						50		261	Fac.	1.2		1		68
		358					138		Ex. C	1911	1		31	
						50		329				2		53
		+50					217				1		26	
						50		313				1		45
		359					121				0		23	
						50		170				3		45
		+50					63				3		26	
						50		100				5		48
		360					45				2		26	
						50		75				5		48
		+50					36				3		26	
						50		54				4		48
		361					22				1		26	
						20		16				3		19
		+20					20				8		26	
						30		23				7		29
		+50					21		C	596	5		26	
						50		39	F	98		9		48
		362					21		SB	480	5		26	
						50		43	Fac.	1.2		19		48
		+50					25		Ex C	478	15		26	
						50		55				19		48
		363					34				5		26	
						50		108				10		48
		+50					83				6		26	
						50		100				7		48
		364					25				2		26	
						50		43				6		48
		+50					21				5		26	
						50		40				9		48
		365					22				5		26	
CARRIED FORWARD								—		—		—		
COLUMN FOOTINGS								2939		60		675		1599

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		365					22				5		26	
						50		45				6		48
		+50					27				1		26	
						50		44				9		48
		366					21				9		26	
						50		38				16		49
		+50					20				8		27	
						50		38				26		55
		367					21		C	355	20		32	
						50		32	F	128		29		55
		+50					14		SB	530	11		27	
						50		31	Fac.	1.2		16		49
		368					20		Ex C	201	6		26	
						50		31				6		61
		+50					13				0		40	
						50		29				5		62
		369					18				5		27	
						50		33				7		51
		+50					18				3		28	
						50		34				8		52
		370					19				6		28	
						50		32				13		51
		+50					16				8		27	
						50		30				8		55
		371					16				1		32	
						50		30				3		59
		+50					16				2		32	
						50		33				5		63
		372					20				3		36	
						50		37	C	427		3		63
		+50					20		F	32	0		32	
						32		24	SB	524				37
		+82					20		Fac.	1.2			30	
						18		15	Ex. C	389				18
		373					24						23	
						50		45						44
		+50					25						25	
						50		41						44
		374					19						23	
						50		66						44
		+50					52						25	
						50		74						46
		375					28				0		25	
						50		45				12		49
		+50					21				13		28	
						50		33				44		51
		376					15				34		27	
						50		33				51		50
		+50					21				21		27	
						50		38				31		47
		377					20		C	522	12		24	
						50		35	F	295		17		45
		+50					18		SB	515	6		25	
						50		38	Fac	1.2		8		48
		378					23		Ex. C	168	3		27	
						50		57				23		54
		+50					39				22		31	
						50		68				39		57
		379					34				20		31	
						50		94				39		57
		+50					68				22		31	
						27		53				20		31
		+77					38				17		31	
						23		28				11		26
		380					28				9		31	
CARRIED FORWARD								—				—		—
COLUMN FOOTINGS								1304				455		1569

State of Vermont — Department of Highways

WATERBURY-STOWE — F. ~~A. P.~~ No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 23 — 19

Station	Dist.	Total Excavation Earth and Rock: Area	Total Excavation: Cu. Yds.	Balance and Rock Excavation: Area	Balance and Rock Excavation: Cu. Yds.	Embankment: Area	Embankment: Cu. Yds.	Shaping Course of Gravel: Area	Shaping Course: Cu. Yds.
380		28				9		31	
	50		50				22		57
+50		26				15		31	
	50		49				29		57
381		27		C	442	16		31	
	50		47	F	187		31		59
+50		24		SB	537	18		33	
	50		36	Foc.	1.2		31		59
382		15		Ex C	218	16		31	
	50		38				23		58
+50		26				9		32	
	50		39				19		56
383		16				12		28	
	50		34				11		49
+50		21				0		25	
	18		13						17
+68		19						25	
	32		23						30
384		20				0		25	
	50		44				9		47
+50		28				10		26	
	50		69				12		48
385		46				3		26	
	50		62				31		48
+50		21				30		26	
	27		26				21		29
+77		30				12		31	
	23		23	C	408		15		27
386		23		F	519	24		33	
	50		43	SB	520		33		62
+50		23		Foc.	1.2	12		34	
	50		39	Ex F	215		19		56
387		19				9		26	
	50		35				31		50
+50		19				25		28	
	50		36				26		50
388		20				3		26	
	50		36				31		48
+50		19				30		26	
	50		35				60		48
389		19				35		26	
	50		39				99		49
+50		23				72		27	
	50		34				153		53
390		14				93		30	
	50		35				145		56
+50		24				64		30	
	50		44				94		63
391		23				38		38	
	50		56	C	717		43		63
+50		38		F	641	8		30	
	50		99	SB	565		7		56
392		69		Foc.	1.2	0		30	
	50		128	Ex F	52		1		55
+50		69				1		29	
	50		122				8		53
393		63				8		28	
	50		88				51		52
+50		32				47		28	
	50		56				103		54
394		29				64		30	
	50		45				110		56
+50		20				55		31	
	50		44				79		57
395		28				30		31	
CARRIED FORWARD			—				—		—
COLUMN FOOTINGS			1567		—		1347		1622

Station	Dist.	Total Excavation Earth and Rock: Area	Total Excavation: Cu. Yds.	Balance and Rock Excavation: Area	Balance and Rock Excavation: Cu. Yds.	Embankment: Area	Embankment: Cu. Yds.	Shaping Course of Gravel: Area	Shaping Course: Cu. Yds.
395		28				30		31	
	50		50				44		55
+50		26				18		28	
	50		54	C	447		32		52
396		32		F	346	17		28	
	50		54	SB	502		45		52
+50		26		Foc.	1.2	32		28	
	50		46	Ex C	44		45		51
397		24				17		27	
	50		38				20		48
+50		17				5		25	
	50		38				5		44
398		24				0		23	
	50		39						43
+50		18				0		23	
	50		44				13		48
399		29				14		29	
	50		45				49		55
+50		20				39		30	
	50		39				93		54
400		22				61		28	
	50		41				132		52
+50		22		C	831	82		28	
	50		45	R	19		149		52
401		27		F	1012	79		28	
	50		124	SB	557		159		52
+50		107		Foc.	1.2	93		28	
	50		183	Ex F	383		177		52
402		91				98		28	
	50		106				156		52
+50		24		0		71		28	
	50		47		5		103		55
403		27		5		40		31	
	50		56		9		56		56
+50		34		5		21		30	
	50		66		5		31		57
404		37		0		12		32	
	50		75				18		62
+50		44				7		35	
	50		88				31		67
405		51				27		37	
	50		91				51		69
+50		48		C	1036	28		37	
	50		75	R	67		26		65
406		33		F	283	0		33	
	40		50	SB	922				49
+40		34		Foc.	1.2			33	
	10		14	Ex C	696				12
+50		41				0		32	
	50		69				13		62
407		34				14		35	
	50		53				40		64
+50		23				29		34	
	50		43				60		64
408		23		0		36		35	
	50		96		10		63		108
+50		81		11		32		82	
	50		171		19		30		145
409		104		11		0		75	
	50		181		19				133
+50		92		11				69	
	50		193		19				151
410		116		11				94	
	34		88		7				81
+34		23		0				34	
CARRIED FORWARD			88		7				81
COLUMN FOOTINGS			2402		93		1641		2062

State of Vermont — Department of Highways

WATERBURY-STOWE — F. A. P. No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 24 — 1949

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		410+34					23		0		0		34	
						16		14				4		21
		+50					23				14		37	
						50		32				33		69
		411					12				22		37	
						50		27				87		66
		+50					17		C	391	72		34	
						50		31	R	7		147		61
		412					17		F	807	87		32	
						50		34	SB	656		136		62
		+50					20		fac	1.2	60		35	
						50		32	Ex.F.	577		115		64
		413					14				64		34	
						50		31				113		64
		+50					19				58		35	
						50		30				113		62
		414					13				64		32	
						50		30				59		53
		+50					19				0		25	
						50		42						53
		415					26						32	
						50		48						59
		+50					26						32	
						40		44						42
		+90					34						25	
						10		12						9
		416					33						25	
						50		49	C	467				46
		+50					20		R	40	0		25	
						50		36	F	377		2		47
		417					19		SB	473	2		26	
						50		34	fac	1.2		12		48
		+50					18		Ex.C	15	11		26	
						50		31				38		46
		418					16				30		24	
						50		31				68		43
		+50					18				43		22	
						50		46				83		43
		419					32				47		24	
						50		57				94		44
		+50					30		0		54		24	
						50		79		40		80		46
		420					55		43		32		26	
						50		87		59		50		48
		+50					30		21		22		26	
						50		51		19		48		48
		421					16		0		30		26	
						50		31				61		47
		+50					17				36		25	
						50		31				58		45
		422					16				27		24	
						50		30	C	392		62		46
		+50					16		R	78	40		26	
						50		31	F	622		95		49
		423					17		SB	495	63		27	
						50		32	fac	1.2		90		55
		+50					18		Ex.F.	354	34		32	
						50		33				66		58
		424					18				37		31	
						50		33				56		52
		+50					18				23		25	
						50		33				36		47
		425					18				16		26	
						50		34				31		48
		+50					19				17		26	
		CARRIED FORWARD						34		0		31		48
		COLUMN FOOTINGS						1196		118		1837		1591

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		425+50					19				17		26	
						50		34				32		48
		426					18				18		26	
						50		33				32		49
		+50					18				17		27	
						50		33	C	846		30		49
		427					18		F	147	15		26	
						50		35	SB	537		17		48
		+50					20		fac	1.2	3		26	
						50		37	Ex.C.	670		4		53
		428					20				1		31	
						50		67				1		59
		+50					52				0		33	
						50		160						61
		429					121						33	
						50		212						61
		+50					108						33	
						50		201						61
		430					109						33	
						50		181						64
		+50					86						36	
						50		99						70
		431					21				0		40	
						50		39				1		72
		+50					21				1		38	
						50		39				8		66
		432					21		C	906	8		33	
						50		43	R	59		7		60
		+50					25		F	24	0		32	
						50		56	SB	591		4		58
		433					36		fac	1.2	4		31	
						20		27	Ex.C	877		1		21
		+20					37				0		27	
						30		38				1		31
		+50					31				2		29	
						50		72				2		55
		434					47				0		30	
						30		66						32
		+30					72						27	
						20		60						19
		+50					89		0				23	
						50		186		59				43
		435					112		64				23	
						24		110		84				20
		+24					135		124				23	
						26		98		85				23
		+50					68		52		0		25	
						50		94		48		6		54
		436					33		0		7		33	
						50		61				15		63
		+50					33				9		35	
						50		58				17		67
		437					30				9		37	
						50		44	C	553		22		63
		+50					18		R	217	15		31	
						50		44	F	101		22		58
		438					29		SB	406	9		32	
						50		44	fac	1.2		19		58
		+50					18		Ex.C	432	12		31	
						50		Project Stops						
		439												
						50								
		+50												
						50								
		440												
		CARRIED FORWARD						—		—				
		COLUMN FOOTINGS						2271		276		241		1486

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

State of Vermont **Department of Highways**

WATERBURY - STOWE F. ~~A.P.~~ No. 116(6)

FORM ENG. 1A EARTHWORK SHEET NO. 25 19

STA 444+00
RESUME GOVERNMENT PARTICIPATION F116(6)

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		440												
		+35												
		+50												
		441												
		+25.5												
		+75												
		442												
		+50												
		443												
		+50					22				0		22	
						50		36				4		41
		444					17		C	103	4		22	
						20		13	F	7		1		16
		+20					17		SB	128	0		21	
						10		6	Fac	1.2				7
		+30					15		ExC	95	0		19	
						20		12				1		15
		+50					17				1		22	
						50		36				1		49
		445					22				0		31	
						10		7						10
		+10					18				0		24	
						40		28				1		39
		+50					20				1		28	
						50		33				3		56
		446					16				2		32	
						50		36				4		58
		+50					23		C	374	2		31	
						50		39	F	152		6		56
		447					19		SB	521	5		29	
						50		35	Fac	1.2		17		54
		+50					19		ExC	192	13		29	
						50		37				17		53
		448					21				5		28	
						50		43				36		51
		+50					25				34		27	
						50		44				48		52
		449					23				18		29	
						50		38				18		48
		+50					18				1		23	
						50		34				2		44
		450					19				1		25	
						50		34				2		47
		+50					18				1		26	
						50		32				6		48
		451					17				5		26	
						50		34				22		45
		+50					20		C	402	19		23	
						50		35	F	327		59		43
		452					18		SB	514	45		23	
						50		32	Fac	1.2		83		46
		+50					17		ExC	10	45		27	
						50		38				72		56
		453					24				33		34	
						50		44				45		63
		+50					23				16		34	
CARRIED FORWARD								249				289		348
COLUMN FOOTINGS								726		—		448		997

V.C.	% Grade	STATION	ELEVATION On Grades	ELEVATION On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation Earth and Rock CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		453+50					23				16		34	
						50		46				21		58
		454					27				7		29	
						50		55				11		54
		+50					32				5		29	
						50		52				6		54
		455					24				2		29	
						50		42				2		51
		+50					21				0		26	
						50		43				2		51
		456					25				2		29	
						50		55				4		54
		+50					34				2		29	
						50		77	C	540		2		48
		457					49		F	133	0		23	
						50		94	SB	512				48
		+50					53		Fac	1.2			29	
						50		75	ExC	380				48
		458					28						23	
						37		32						29
		+37					19				0		20	
						13		9				2		11
		+50					20				9		27	
						50		38				38		55
		459					21				32		32	
						50		36				54		59
		+50					18				26		32	
						50		39				29		58
		460					24				5		31	
						20		15				2		23
		+20					16				0		31	
						15		10						17
		+35					20						31	
						15		12						17
		+50					22				0		31	
						50		38				4		57
		461					19		C	413	4		31	
						50		33	F	326		64		60
		+50					17		SB	573	65		34	
						50		36	Fac	1.2		139		65
		462					22		ExC	2	85		36	
						50		29				93		59
		+50					9				15		28	
						50		21				17		51
		463					14				3		27	
						50		26				5		50
		+50					14				2		27	
						50		41				2		51
		464					30				0		28	
						50		67						58
		+50					42						35	
						50		85						65
		465					50						35	
						50		106						65
		+50					65				0		35	
						50		120				2		65
		466					65				2		35	
						50		107	C	660		37		65
		+50					51		F	613	38		35	
						50		66	SB	634		170		65
		467					20		Fac	1.2	146		35	
						50		41	ExF	76		250		65
		+50					24				124		35	
						50		44				134		65
		468					23				21		35	
CARRIED FORWARD								484		—		593		390
COLUMN FOOTINGS								1590		—		1090		1641

REVISIONS By
VOLUMES Computed by Checked by
VERTICAL CURVES Computed by Checked by
GRADES Computed by Checked by

State of Vermont — Department of Highways

WATERBURY-STOWE — F. A. P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 26 — 1949

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		468					23				21		35	
						50		44				19		59
		+50					24				0		29	
						50		45						60
		469					25						36	
						50		44						63
		+50					22						32	
						16		13						19
		+66					23				0		33	
						34		30				1		43
		470					24				2		35	
						50		44				2		67
		+50					23				0		37	
						50		44				13		66
		471					24				14		34	
						50		48				19		63
		+50					28				7		34	
						50		50	C	411		15		64
		472					26		F	151	9		35	
						50		50	SB	682		10		66
		+50					28		fac	1.2	2		36	
						50		44	Ex.C	230		8		69
		473					20				7		39	
						50		31				26		74
		+50					14				21		41	
						50		27				35		74
		474					15				17		39	
						50		34				19		72
		+50					22				3		39	
						50		39				4		67
		475					20				1		33	
						50		37				31		64
		+50					20				32		36	
						50		39				138		69
		476					22				117		39	
						50		40				249		72
		+50					21				152		39	
						50		33				223		72
		477					15		C	387	89		39	
						50		31	F	943		147		72
		+50					18		SB	663	70		39	
						50		34	fac	1.2		98		70
		478					19		Ex.F	745	36		37	
						50		40				45		65
		+50					24				13		33	
						50		45				12		60
		479					25				0		32	
						50		45						58
		+50					24						31	
						50		43						61
		480					22				0		35	
						50		36				6		65
		+50					17				6		35	
						50		33				16		65
		481					19				11		35	
						50		41				10		65
		+50					25		C	416	0		35	
						50		44	F	1025				65
		482					22		SB	635			35	
						40		33	fac	1.2				48
		+40					22		ExF	814			30	
						10		9						12
		+50					29						34	
						50		52						57
		483					27						28	
		CARRIED FORWARD						248				32		377
		COLUMN FOOTINGS						1222				1146		1966

V.C.	% Grade	STATION	Elevation On Grades	Elevation On V Curves	Correction for Vertical Curve	DIST.	Total Excavation Earth and Rock AREA	Total Excavation CU. YDS.	Balance and Rock Excavation AREA	Balance and Rock Excavation CU. YDS.	Embankment AREA	Embankment CU. YDS.	Shaping Course of Gravel AREA	Shaping Course of Gravel CU. YDS.
		483					27						28	
						50		52						53
		+50					29						29	
						18		19						21
		+68					27				0		33	
						32		27				232		43
		484					19				392		39	
						50		36				519		73
		+50					20				169		40	
						50		34				242		68
		485					17				92		33	
						50		32				85		60
		+50					18				0		32	
						50		31				10		64
		486					16		0		11		37	
						25		30		10		6		34
		+25					49		22		3		37	
						25		32		12		41		33
		+50					20		3		86		35	
						50		37		5		329		65
		487					20		2		269		35	
						52		35		2		485		62
		+50					18		0		255		32	
						50		43				240		64
		488					28				4		37	
						10		12				1		15
		+10					35				0		50	
						40		48	C	424		10		67
		+50					29		R	29	14		41	
						40		40	F	1494		43		62
		+90					25		SB	657	44		42	
						10		9	fac	1.2		17		14
		489					26		ExF	1369	50		33	
						50		43				99		60
		+50					20				57		32	
						50		32				128		57
		490					15				81		30	
						50		28				80		56
		+50					15				5		31	
						50		28				13		54
		491					15				9		27	
						50		29				13		48
		+50					16				5		25	
						50		27				16		46
		492					13				12		25	
						36		19				15		33
		+36					16				11		24	
						14		8	C	296		5		13
		+50					14		F	215	10		27	
						25		17	SB	479		5		24
		+75					23		fac	1.2	0		24	
						25		19	ExC	38		6		23
		493					17				12		25	
						39		24				12		35
		+39					16				5		24	
						11		7				3		10
		+50					16				9		25	
						50		29				13		47
		494					15				5		26	
						50		30				15		46
		+50					17				11		24	
						12.5		7				6		11
		+62.5					15				14		24	
						37.5		24				13		33
		495					19				5		23	
		CARRIED FORWARD						—				—		
		COLUMN FOOTINGS						888		29		2702		1394

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

State of Vermont — Department of Highways

WATERBURY - STOWE — F. ~~A.~~ P. No. 116 (6)

FORM ENG. 1A — EARTHWORK SHEET NO. 27 — 19

Station	Dist.	Total Excavation Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
495		19				5		23	
	40		27				4		33
+40		18				0		21	
	10		6						8
+50		17		C	357			22	
	38		27	F	4.				32
+88		21		SB	469			24	
	12		8	Foc.	1.2				11
496		17		Ex C	352			24	
	50		33						44
+50		19						24	
	22		14						22
+72		15						31	
	28		18						29
497		19						24	
	10		7						10
+10		19						33	
	32		21						34
+42		16						25	
	8		5						8
+50		19						26	
	50		37						45
498		21						23	
	50		39						43
+50		21						23	
	39		29						32
+89		19						21	
	11		8						9
499		22						21	
	14		11						12
+14		21						27	
	36		27						39
+50		19						31	
	50		40						58
500		24				0		32	
	33		26				1		35
+33		19				2		26	
	17		12				1		18
+50		19				1		30	
	50		33	C	357		1		53
501		17		F	6	0		27	
	50		33	SB	501				44
+50		19		Foc.	1.2			21	
	20		14	Ex C	350				16
+70		18						22	
	30		21						27
502		19						26	
	50		36						48
+50		20						26	
	50		35						48
503		18						26	
	50		36						53
+50		21						31	
	23		18						27
+73		21						33	
	27		22						36
504		23						39	
	32		25						38
+32		19						25	
	18		13						15
+50		20				0		20	
	50		33				3		43
505		16				3		26	
CARRIED FORWARD							—		—
COLUMN FOOTINGS			714		—		10		970

Station	Dist.	Total Excavation Area	Total Excavation Cu. Yds.	Balance and Rock Excavation Area	Balance and Rock Excavation Cu. Yds.	Embankment Area	Embankment Cu. Yds.	Shaping Course of Gravel Area	Shaping Course of Gravel Cu. Yds.
505		16				3		26	
	50		30				6		46
+50		16		C	348	3		24	
	50		30	R	59		10		48
506		16		F	61.	8		28	
	50		37	SB	405		12		53
+50		24		Foc.	1.2	5		29	
	50		41	Ex C	275		17		53
507		20				13		28	
	20		15				8		20
+20		20				8		26	
	30		22				6		29
+50		19				2		27	
	15		10				1		14
+65		17				2		25	
	35		22				1		31
508		17				0		23	
	50		36	END OF GOV		BEGIN NON GOV			44
+50		22		0				25	
	22		15		3				15
+72		14		7				13	
	28		13		7				12
509		12		6				10	
	50		19		6				19
+50		9		0				10	
	50		58		43				21
510		54		46				13	
	50		86		70				24
+50		39		30				13	
	50		49		32				24
511		14		5				13	
	50		22		5				24
+50		10		0				13	
	50		9						17
512		0		C	252			5	
	50			R	107				9
+50		0		SB	234			5	
	50		9	Ex C	252				19
513		10						15	
	50		19						31
+50		10						18	
	50		19						31
514		11						16	
	50		19						29
+50		9						15	
	50		20						26
515		13				0		13	
	50		31				307		34
+50		21				332		24	
	50		33				533		44
516		15		C	321	244		24	
	50		27	R	8		466		32
+50		14		F	1858	259		11	
	50		31	SB	385		291		29
517		19		Foc.	1.2	55		20	
	50		31	Ex F	1909		115		40
+50		15				69		23	
	50		29				64		44
518		16				0		24	
	10		6						8
+10		18				0		18	
	40		28				18		30
+50		20				25		23	
	50		37				44		43
519		20				23		23	
CARRIED FORWARD			253		—		1838		304
COLUMN FOOTINGS			853		166		1899		943

State of Vermont — Department of Highways

WATERBURY-STOWE — F. A. P. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 28 — 1949

Profile: V.C.	Profile: % Grade	Profile: Station	Elevation: On Grades	Elevation: On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock: Area	Total Excavation Earth and Rock: Cu. Yds.	Balance and Rock Excavation: Area	Balance and Rock Excavation: Cu. Yds.	Embankment: Area	Embankment: Cu. Yds.	Shaping Course of Gravel: Area	Shaping Course of Gravel: Cu. Yds.
		519					20				23		23	
						25		17				15		21
		+25					17		0		10		23	
						25		17		2		5		21
		+50					19		5		0		23	
						18		13		3				15
		+68					21		5				22	
						32		21		3				24
		520					14		0				18	
						40		22						27
		+40					16						18	
						10		6						7
		+50					15						19	
						27		16						18
		+77					16						18	
						23		14						15
		521					16						18	
						38		23						25
		+38					16						18	
						12		7						8
		+50					16						18	
						15		9						10
		+65					16		C	307			18	
						23		14	SB	339				15
		+88					16		ExC	307			18	
						12		7	fac	1.2				8
		522					16						18	
						40		24						27
		+40					16						18	
						10		6						7
		+50					16						18	
						25		15						17
		+75					16						18	
						25		15						17
		523					16						18	
						40		24						27
		+40					16						18	
						10		6						7
		+50					18						18	
						25		16						17
		+75					17						18	
						25		16						17
		524					17						19	
						25		16						17
		+25					18						18	
						25		17						17
		+50					18						19	
						32		22						23
		+82					19						19	
						18		12						13
		525					18						19	
						25		17						18
		+25					19						20	
						25		17						19
		+50					18						20	
						25		17						19
		+75					18						20	
						25		17						18
		526					18						18	
						25		17						19
		+25					18						23	
						25		17						20
		+50					18						21	
						25		17						19
		+75					19						19	
		CARRIED FORWARD						119						132
		COLUMN FOOTINGS						494		8		20		552

Profile: V.C.	Profile: % Grade	Profile: Station	Elevation: On Grades	Elevation: On V Curves	Correction for Vertical Curve	Dist.	Total Excavation Earth and Rock: Area	Total Excavation Earth and Rock: Cu. Yds.	Balance and Rock Excavation: Area	Balance and Rock Excavation: Cu. Yds.	Embankment: Area	Embankment: Cu. Yds.	Shaping Course of Gravel: Area	Shaping Course of Gravel: Cu. Yds.
		526+75					19						19	
						25		18						18
		527					20						19	
						25		18						18
		+25					19						19	
						25		17						18
		+50					18		C	330			19	
						19		12	SB	357				13
		+69					17		Ex.C	330			18	
						31		19						21
		528					16						18	
						34		21						23
		+34					18						19	
						16		10						11
		+50					16						18	
						24		14						16
		+74					16						18	
						26		18						17
		529					22						18	
						35		25						25
		+35					16						20	
						15		9						11
		+50					16						18	
						25		15						17
		+75					16						18	
						25		15						17
		530					16						18	
						25		15						17
		+25					16						18	
						50		29						33
		+75					15						18	
						9		5						6
		+84					16						18	
						16		9						11
		531					16						18	
						25		16						17
		+25					19						18	
						25		18						17
		+50					19						19	
						25		18						18
		+75					19		C	333			19	
						25		18	SB	346				18
		532					19		Ex.C	333			19	
						25		18						18
		+25					19						19	
						25		18						17
		+50					19						18	
						20		14						14
		+70					19						19	
						19		13						13
		+89					18						18	
						11		7						7
		533					18						18	
						25		17						17
		+25					18						18	
						25		17						17
		+50					18						18	
						25		17						17
		+75					19						18	
						25		17						17
		534					18						18	
						25		17						18
		+25					18						20	
						32		21						23
		+57					18						19	
		CARRIED FORWARD						304						315
		COLUMN FOOTINGS						515						540

REVISIONS — By — VOLUMES — Computed by — Checked by — VERTICAL CURVES — Computed by — Checked by — GRADES — Computed by — Checked by

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