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

INDEX OF SHEETS

SHEET NO. 1 TITLE PAGE
" " 2 TYPICAL CROSS-SECTION OF IMPROVEMENT (3" PREMIXED BITUMINOUS GRAVEL SHOULDER COURSE WITH REFINED TAR, ITEM 331-A
" " 3 QUANTITY SHEET (ITEMS)
" " 4-7 QUANTITY SHEETS (DRAINAGE)
" " 8-34 EARTHWORK SHEETS
" " 35-53 PLAN AND PROFILE
" " 54 STANDARD STRUCTURE SHEET SC-1 STANDARD CULVERTS.
" " 55 STANDARD STRUCTURE SHEET SCW-2-3 STANDARD CULVERTS.
" " 56 STANDARD STRUCTURE SHEET SC-2-4 STANDARD CULVERTS.
" " 57 STANDARD STRUCTURE SHEET SCW-4-5 STANDARD CULVERTS.
" " 58 STANDARD STRUCTURE SHEET S-29 REINFORCED CONCRETE BOXES
" " 59 STANDARD STRUCTURE SHEET S-40 BARRICADES, SIGNS & LIGHTS.
" " 60 STANDARD STRUCTURE SHEET S-41 TYPICAL GRADING CROSS SECTIONS.
" " 61 STANDARD STRUCTURE SHEET S-46-45 MARKERS
" " 62 STANDARD STRUCTURE SHEET S-47-45 GULVERTS
" " 63 STANDARD STRUCTURE SHEET S-48-46 THREE CABLE GUARD RAIL
" " 64-169 CROSS SECTIONS.

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

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

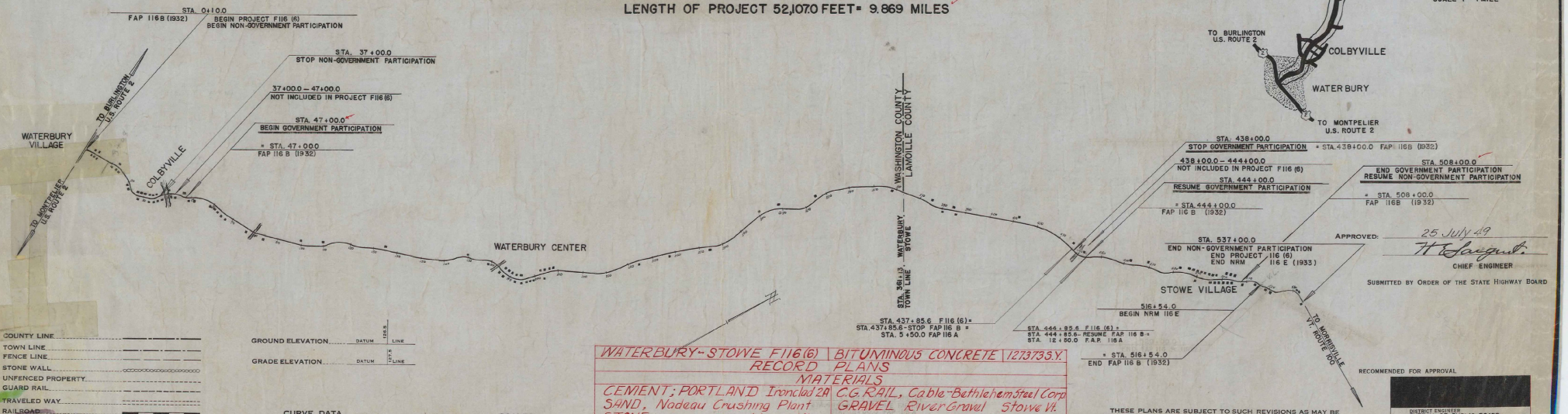
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

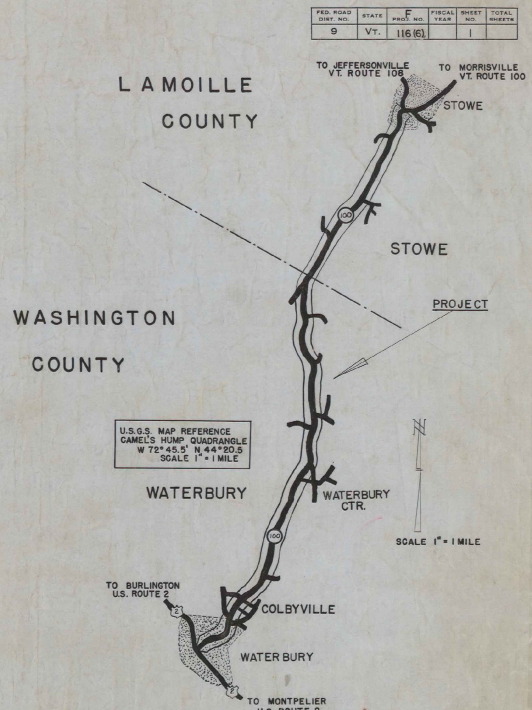
FEDERAL PROJECT

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





APPROVED: 25 JULY 49
H. 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 3D PC 50+85
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE POLE
TREES
HEDGE

GROUND ELEVATION ..... DATUM 1265 LINE
GRADE ELEVATION ..... DATUM 1275 LINE

CURVE DATA

DEFLECTION ANGLE	Δ
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	12737.3 S.Y.
RECORD PLANS		
MATERIALS		
CEMENT; PORTLAND Ironclad 2A	C.G. RAIL, Cable-Bethlehem Steel Corp	
SAND, Nadeau Crushing Plant	GRAVEL River Gravel Stowe Vt.	
STONE, " " Johnson Vt.	Stewart Pit Moretown Vt.	
TAR, Barrett Tar Co. - Malden, Mass.		
ASPHALT, Shell Oil Co. - Burlington Vt.		
R.C.P. - Rutland Conc. Pipe Co., Rutland Vt.		
A.C.G.M.P., Berger Metal Pipe, Westminster		
CONTRACTOR, Vt. Force Account	CONTRACT DATED Aug 26 1949	
RES. ENG'R; R. J. BULEY	CONTRACT STARTED Aug 30 1949	
RECORD PLANS BY R.J.B. & R.J.W. 2/51	" 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
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED
DIVISION ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED 23 JUNE 1949
H. W. Blanett
HIGHWAY ENGINEER

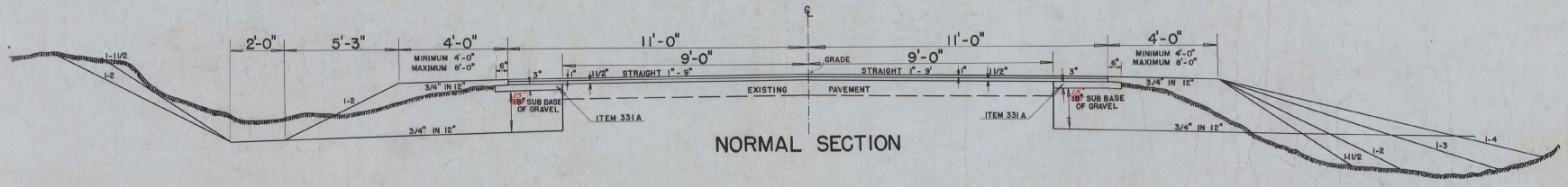
APPROVED July 23, 1949
H. J. Lacy
DISTRICT HIGHWAY COMMISSIONER

SERIES F No. 116 (6) FILED
SHEET 1 OF

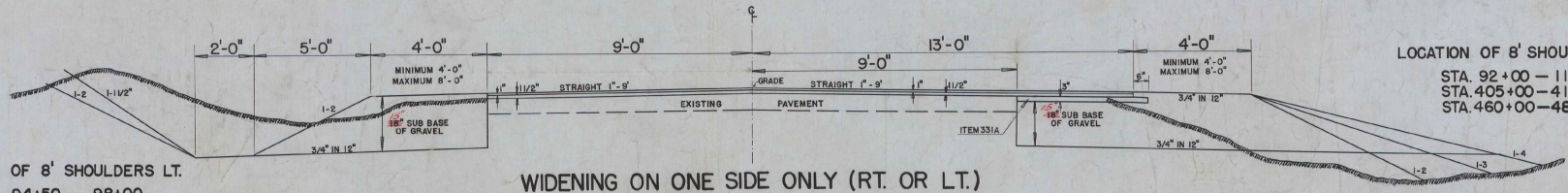
TYPICAL SECTIONS

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

18" & 24" SUB-BASE OF GRAVEL, ITEM 201-A
(3") PREMIXED BITUMINOUS GRAVEL SHOULDER COURSE WITH REFINED TAR, ITEM 331-A



NORMAL SECTION



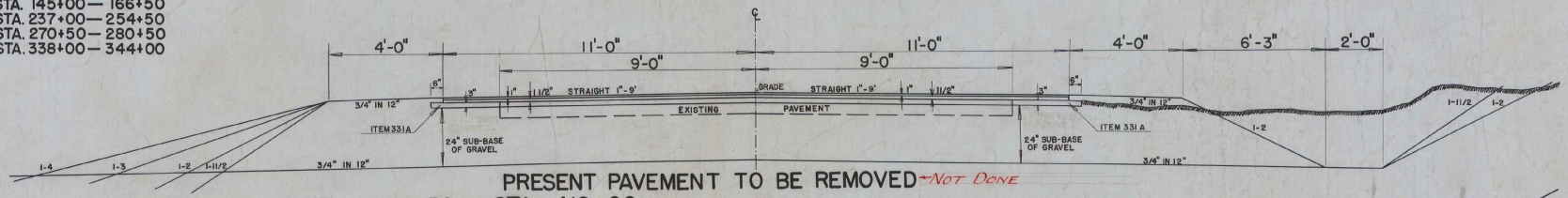
WIDENING ON ONE SIDE ONLY (RT. OR LT.)

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

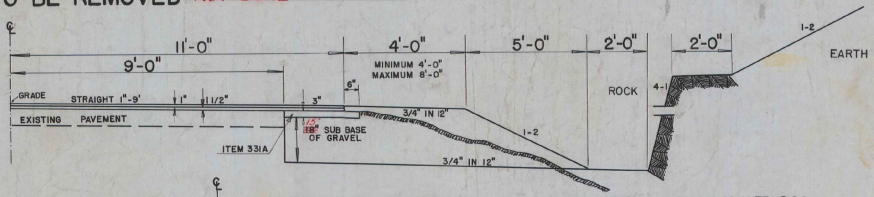
LOCATION OF 8' SHOULDERS RT.

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



PRESENT PAVEMENT TO BE REMOVED — NOT DONE

STA. 408+50 STA. 410+00

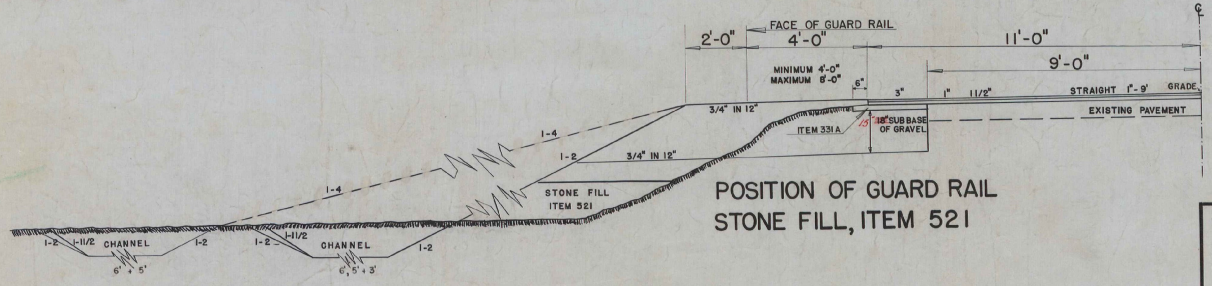


NORMAL SECTION IN SOLID ROCK EXCAVATION

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

QUANTITIES

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

QUANTITY BREAKDOWN		APPROXIMATE SUMMARY OF QUANTITIES			ITEM NO.	DETAILED SUMMARY OF QUANTITIES		GOV'T. PARTICIPATION ITEMS
NON-GOV'T.	GOV'T.	QUANTITIES	UNIT	ITEMS		QUANTITIES	UNIT	
2500	48000	50500	cy	Common Excavation	101-A			COMMON EXCAVATION
						48000	cy	As per sections (includes 3329 cy overrun
300	3100	3400	cy	Solid Rock Excavation	101-B			
						48000	cy	Total
180	1500	1680	cy	Trench Excavation of Earth	103-A			
30	300	330	cy	Trench Excavation of Rock	103-B			SOLID ROCK EXCAVATION
						3100	cy	As per sections (includes 307 cy overrun)
1200	3300	4500	cy	Channel Excavation	106			
						3100	cy	Total
	350	350	cy	Structure Excavation (includes 55 cy overr)	107			
8	80	88	each	Cutting & Removing Trees (incl 7 each overr)	110			TRENCH EXCAVATION OF EARTH
						1410	cy	Pipe Culverts (includes 311 cy overrun)
2900	53000	55900	cy	Sub-base of Gravel	201-A	85	cy	Box Culverts (includes 10 cy overrun)
						5	cy	P.A.C.C.M. Underdrain
	400	400	cy	Gravel Backfill (includes 139 cy overrun)	222			
						1500	cy	Total
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			TRENCH EXCAVATION OF ROCK
						281	cy	Pipe Culverts (includes 44 cy overrun)
						17	cy	Box Culverts (includes 4 cy overrun)
2600	15600	18200	ton	Bituminous Concrete Pavement	361-B	2	cy	P.A.C.C.M. Underdrain
9	190	199	cy	Concrete Class 'B' (incl 2.9 cy overrun Non-Gov't)	401-B	300	cy	Total
700	16400	17100	lb	Reinforcing Steel (incl 1681 lb overrun Non-Gov't.)	402			
								CHANNEL EXCAVATION
9	56	65	cy	Cement Rubble Masonry (incl 6 cy overr. Gov't.) (includes 1.2 cy overrun Non-Gov't.)	411	3288	cy	As per sections (includes 185 cy overrun)
						12	cy	Box Culverts
	200	200	lf	12" Reinforced Concrete Pipe (includes 44 lf overrun Gov't.)	421-D	3300	cy	Total
40	676	716	lf	15" Reinforced Concrete Pipe (includes 72 lf overrun Gov't.)	421-F			
								SUB-BASE OF GRAVEL
52	560	612	lf	18" Reinforced Concrete Pipe (includes 48 lf overrun Gov't.)	421-H	52830	cy	As per sections (includes 4734 cy overrun)
						200	cy	Drives
	128	128	lf	24" Reinforced Concrete Pipe (includes 12 lf overrun Gov't.)	421-K	20	cy	12" A.C.C.M.P. 247+98 & 269+17
						53000	cy	Total
	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			CONCRETE CLASS B
						20	cy	Pipe Culverts (includes 4.2 cy overrun)
	128	128	lf	48" Reinforced Concrete Pipe	421-O	170	cy	Box Culverts (includes 11.1 cy overrun)
58	68	126	lf	12" Asph. Ctd. Corr. Galv. Metal Pipe	425-D	190	cy	Total
4	240	244	lf	15" Asph. Ctd. Corr. Galv. Metal Pipe (includes 52 lf overrun Gov't.)	425-F			
								REINFORCING STEEL
80	10	90	lf	18" Asph. Ctd. Corr. Galv. Metal Pipe (includes 24 lf overrun Non-Gov't.)	425-H	1500	lb	Pipe Culverts (includes 260 lb overrun)
						14900	lb	Box Culverts (includes 1390 lb overrun)
	60	60	lf	24" Asph. Ctd. Corr. Galv. Metal Pipe	425-K			
	122	122	lf	72" Asph. Ctd. Corr. Galv. Metal Pipe	425-S	16400	lb	Total
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			
								NON-GOV'T. PARTICIPATION
1824	5544	7368	lf	Three Cable Guard Rail with Steel Posts	543			
								COMMON EXCAVATION
8	32	40	each	Anchors for Three Cable Guard Rail with Steel Posts	546	2500	cy	As per sections (includes 383 cy overrun)
						2500	cy	Total
22	308	330	each	Wood Guide Posts (incl. 11 each overr. Gov't.) (includes 2 each overrun Non-Gov't.)	548			SOLID ROCK EXCAVATION
						300	cy	As per sections (includes 83 cy overrun)
	2	2	each	Erection of Project Markers	566	300	cy	Total
20	100	120	each	Boundary Markers (Estimated)	567			TRENCH EXCAVATION OF EARTH
						160	cy	Pipe Culverts (includes 29 cy overrun)
2900	19000	21900	lf	Preparing Transverse Joints of Existing Pavement	595	20	cy	P.A.C.C.M. Underdrain
						180	cy	Total
14100	92500	106600	sy	Preparing Existing Pavement for New Wearing Surface	596			
								TRENCH EXCAVATION OF ROCK
						27	cy	Pipe Culverts (includes 6 cy overrun)
4600	62000	66600	sy	Mulch (Estimated)	622			
						3	cy	P.A.C.C.M. Underdrain (Estimated)
	1500	1500	lf	Removal of Lip Curb (est.)		30	cy	Total
	50	50	sy	Seeding	611			CHANNEL EXCAVATION
						1200	cy	As per sections (includes 79 cy overrun)
	1000	1000	sy	Sodding	612	1200	cy	Total
	1000	1000	cy	Topsoil	621			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'	28'	Variable	EQUATIONS +	EQUATIONS −	
		NON-	GOV'T.	PARTICIPATION			
0+10	7+60.0			750.0			
7+60.9	27+08.0			1947.1		0.9	
27+10.5	32+00.0			489.5		2.5	
32+00.0	37+00.0	500.0					
37+00.0	47+00.0					100.0	Bridge Project (Not included)
NON GOV'T Sub-Total		500.0		3186.6		100.4	
		GOV'T	PARTICIPATION				
47+00.0	51+24.2	424.2					
51+16.6	61+13.7	997.1			7.6		
						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+53.9	1353.1					
						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+56.6	321+48.8	1790.2					
						8.2	
321+57.0	370+41.7	4884.7					
					7.4		
370+34.3	437+85.5	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	68.9	
		NON-	GOV'T.	PARTICIPATION			
508+00.0	519+79.1	1179.1					
					1.3		Tran. 2@ 300' x 6"
519+77.6	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+100	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		42519.9	8.051	NON GOV'T PARTICIPATION
		43971.1	8.327	GOV'T PARTICIPATION
		52107.0	9.869	GOV'T & NON GOV'T PARTICIPATION

SERIES F NO. 116(6) FILED

WATERBURY - STOWE SHEET 3 OF 169 SHEETS

® "IMPERIAL" TRACING CLOTH

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					76	
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					13	
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+25		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'G/MP D	ACC'G/MP 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. or 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	D&G													2	3						Remove
13+00		℄	15" RCP	D&G	D&G												2			2				Retain & Raise D'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	D&G				15"	20															Ret & Ext. 20 Lt
18+60		℄	18" RCP	D&G													1			1		85°		Retain
18+60		Rt	18" RCP	SH																				Retain
21+11		℄	15" RCP	D&G				15"	12								1			1				Ret & Ext. 12 Lt - Raise D16
21+11		Rt	15" RCP	D&T																				Retain
25+55		℄	3x3.5 CB	SH																				Retain
25+61	25+83	Rt	12" RCP	D&G													1			1				Retain & Raise D1 6"
25+67	25+91	Rt	18" RCP																					Retain
25+72.5		Lt	15" RCP	D&G													1			1				Raise D1 & G 6"
25+91	28+25	Rt	18" Tile																					Retain
29+25	30+09	Rt	18" RCP		D&G												1			1				Retain & Raise D1 6"
29+35		℄	12" RCP	D&T																				Retain
29+91		Rt		D&T													1			1				Raise D1 1'
30+28		℄	12" RCP	CB													2			2	49°30			Retain & Raise CB & D16
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	D&T													1			1				Ret & Raise outlet D16
31+46		℄	15" RCP	D&G	D&T												1			2	47°			Retain & Raise D16"
31+91	32+48	Rt	18" RCP	D&T													1			1				Retain & Raise D's 6"
31+99		℄	15" RCP	D&T	D&T												2			2	63°			Retain & Raise D'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.																					Return
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	18" 18"	32 52					7.8			112	5	70	23				
47+27		℄	15" RCP	D&G				15"	16								1			1				Ret & Ext. 16 Rt - Raise D16
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	D&T				15"	12								1	2		1	82°			Ret & Ext. 12 Rt - Raise D16
57+52		℄	3x3 CB	D&T																				Retain
57+86	58+50	Rt	12" RCP	D&G													1			1				Retain & Raise D1 18"
58+80	59+94	Rt	12" RCP	D&G													1			1				Retain & Raise D1 12"
59+10		Lt	18" CMP	SH	SH			18"	29					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	D&G								2	149				2	2						Retain & Rebuild D1
61+96	62+40	Rt	12" RCP	D&G													1			1				Retain & Raise D16
62+50		℄	12" RCP	D&G																	44°			Retain
64+02		℄	12" RCP	D&G																		66°50		Retain
64+18		Lt	12" RCP	D&G																				Retain
69+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	W.F.	W.F.					6x3'	13	13.5	1545										16	Ret & Ext. 5 Lt & 8 Rt
79+65		Lt	15" RCP	SH	SH			15" 12" 15" 18" 36"	4 52' 72 44 16					3.0			1	11	20					Remove, Relay & Ext. 4'
GOV. SUB-TOTALS											Boxes Pipes	13.5 2	1545 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+50	1				
+81	1				
525+92		1			
526+69		1			
527+18		1			
SUB TOTALS	3	3			
		6			
		& Overrun			
		8			

3 STRAND CABLE GUARD RAIL NON GOV'T With Steel Posts

STA	STA	LT	RT	Bridge	RANCH
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"	24"		Shaping Course 41476	EQ +	EQ −
182+58.9	182+61.4	9420.9				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		41476	48.0	28.9
			NON GOV'T.				
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 GOV'T SUB TOTAL		2601.3			300	1.3	
GOV'T PART.		41221.5	150		41476	48.0	28.9
NON GOV'T PART.		3234.3	117		3236.6	1.3	3.4

GUIDE POSTS

GOV'T

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+80	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	ACC&MP D	ACC&MP L	RCP D	RCP L	R C BOX S	R C BOX L	CONC B	REINF STEEL	CRM	DI GRATE	DEPTH DI	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Changing Elevation of Top of Manhole	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 & 11' to C.B.
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	18.61								58°						Ret & Ext 5' Lt & 8.5' Rt
111+05		Rt	12 CMP			12"	8												18								Remove, Relay & Ext 8'
114+67		℄	18 RCP	D/T				18"	20																		Retain & Extend 20' Lt
117+51		℄	3x3 RCB	S.H.	WF					3x3'	1.5	1.30	9.28				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+49		℄	18 RCP	S.H.				18"	16								8	4	16								Remove, Relay & Ext Lt. 12' Rt
130+95		Rt	12 CMP	S.H.	S.H.									2.2			7	1	16								Remove & Relay - Drive
132+95		℄	18 RCP	S.H.				18"	8								1	2			64°						Retain & Extend 8' Lt
135+42		℄	15 RCP	S.H.																							Retain
137+27		℄	15 RCP					15"	4								2		8		86°						Remove, Relay & Ext Rt.
140+33		℄	15 RCP	S.H.				15"	4					1.5				4.3									Retain & Extend Rt.
143+61		℄	18 RCP					18"	8								19	49	40								Remove, Relay & Extend 4' Rt.
145+38		℄	18 RCP					18"	32									19			75'30						Retain & Ext 16' Lt & 16' Rt
148+51		℄	18 RCP					18"	28								19	32	36								Remove, Relay & Extend 16' Lt
150+96		℄	15 RCP					15"	28								6	1.5									Ret & Extend 11' 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	11	12								Remove, Relay & Ext 20' Lt
162+01		℄	15 RCP	S.H.				15"	32								4	1.5	4			86'40					Remove, Relay & Ext Lt.
173+28		℄	15 RCP	D/T				15"	12								10	1	16		85°						Remove, Relay & Ext 8' Lt & 8' Rt
175+17		℄	15 RCP	D/T				15"	16								1	1.5				86'30					Retain & Ext 16' Lt
176+99		℄	15 RCP	D/T				15"	8								10		12		80'45						Remove, Relay & Ext Lt.
179+41		Rt	12 CMP														4	13									Remove
181+05		Rt	12 CMP														5	13									Remove
181+35		℄	18 RCP	D/T				18"	8								6		12		85°						Remove, Relay & Ext Rt.
182+95		Rt	12 CMP	D/T													4	13									Remove
184+00		℄	15 RCP	D/T				15"	12			2.8	2.50			5'	13	16	8								Remove, Relay & Ext. 8' Rt + 4' Lt
186+24.5		℄	18 RCP	D/T																	83'45						Retain
186+24.5		Rt	18 RCP	D/T				18"	4										8	1	83'45						Retain & Raise D.I. 3'
186+26	187+74	Rt	12 RCP																								Retain
187+75		℄	12 RCP	D/G	D/G												2			2							Retain & Raise D.I. 1'
187+77	188+57	Lt	12 RCP																								Retain
188+55		℄	12 RCP	D/G	D/G												2			2							Retain & Raise D.I. 3'6"
188+59	189+58	Lt	12 RCP	D/G																							Retain
189+60	191+77	Lt	12 RCP	D/G																							Retain
195+12		Rt	12 RCP	D/G																							Retain & Raise D.I. 4'6"
198+68		℄	12 RCP	D/G	D/G												1			1							Raise D.I. 6"
198+69		Rt	10 CMP			12"	20													1	48°						DRIVE CULVERT
198+80		Rt		D/G													1			1							Retain & Raise D.I. 6"
196+52		℄	12 RCP	D/G	D/G															2							Retain & Raise D.I. 6"
201+58		℄	24 RCP	S.H.																							Retain
203+86		℄	15 RCP	D/T													4		8								Remove, Relay & Ext. Lt.
207+77		℄	15 RCP	D/G				15"	8								4		8								Remove, Relay & Extend 8' Lt & 8' Rt
210+50		℄	15 RCP					15"	16								8	5.8	4								DRIVE CULVERT
214+67		℄	12 CMP	S.H.	S.H.	15"	20							3.0			9										Retain & Extend 4' Rt.
216+02.5		℄	18 RCP	D/T				18"	4			2.6	2.26			4.6'	6	2.4									Remove, Relay & Extend 11' Lt & 8' Rt
223+93		℄	24 RCP					24"	20								12	2.9	12								Retain
225+20		Lt	12 CMP																								Cont. New Wing Walls
226+46		℄	36 RCP	S.H.	W.F.							2															DRIVE CULVERT
226+90		Rt	12 CMP	S.H.	S.H.	12"	20										6										
SUB	TOTALS							12" 20 15" 204 18" 208 24" 20 30" 28				Boxes 30.4 Pipes 7.4	27.89 476	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
+91		1	175+38		1
93+80		1	204+20	1	
105+90	1		+50	1	
Sub Totals	7	9		6	10

3 STRAND CABLE GUARD WITH STEEL POSTS RAIL GOVERNMENT

STA	STA	LT	RT	Posts Painted	ANCH
52+00	57+60		560	2	2
84+20	85+80		160	2	2
173+00	180+52	752		2	2
183+50	186+34		284	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 RAIL TREES GOVERNMENT

STA	STA	LT	RT
384+91		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
Total		39	30
		75	
		3 OVERRUN	

CUTTING & REMOVING TREES (CONT'D) GOVERNMENT

STA	RT	LT	STA	RT	LT
Brought Forward			263+83	2	
204+71	1		268+05		1
209+19	1		271+35		1
+73	1		298+71		1
209	1		+86		1
+36	1		299+02		1
+50	1		306+30	1	
225+50	1		307+15	1	
+96	1		307+50	1	
226+40	1		314+44		1
231+52	1		+46		1
+80	1		326+69 328+39	1	½
236+47 237+28.5 238+80.5	½ 13	½	329+43 364+15	1 6	½ 12

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

PRINTED ON "IMPERIAL" TRACING CLOTH

QUANTITY SHEET

PLANIMETERED SUB-BASE OF GRAVEL

STA	STA					EQ +	EQ −

GUIDE POSTS GOVERNMENT

STA	LT	RT
279+25	16	4
279+73		
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+115	1	1
341+625	1	1
348+06	1	1
351+58	1	1
352+89		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+815	1	1
385+125	1	1
389+77	1	1
394+91	1	1
398+04	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	11	16
453+10		
458+75	16	7
459+71		
459+41	4	
461+75	1	1
467+10		1
467+30	1	
486+40	10	5
487+30		
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	ACCOMP D	ACCOMP L	RCP D	RCP L	RC BOX S	RC BOX L	CONC B	REINF STEEL	CRM	DI GRATE	DEPTH DI	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Channel Elev of CB & MH	Sub-base of Gravel		Chan. Exac.	Struc. Exac.	Askew LT	Askew Rt	REMARKS
SUB-TOTAL BROUGHT FORWARD																											
230+035		℄	18 RCP	DMT													2	26									Remove DI Rt Plug Culvert
233+21		℄	24 RCP	SH				24"	12								2	19	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	DMT				18"	4								2	19	4								Remove, Relay & Ext Lt 4'
239+90		℄	18 RCP	DMT				18"	4								3		4								Remove, Relay & Ext Lt 4'
245+08		℄	24 RCP					24"	12								9	58	16								Remove, Relay & Rt Extend corner Rt Ditch
247+99		℄	15 RCP	SH	SH	72"	60							6.6							5			104			10' Gravel Rear-Cattle Pass
252+82		℄	15 RCP					15"	8								3	18							45°30'		Ret & Ext 8 Rt
259+17		℄	3x3 CB	WF	WF					3x3	27	16	1674					5									Ret & Ext 15 Lt & 12 Rt
269+17		℄	24 RCP	SH	SH	72"	62							6.6							5			135			10' Gravel Rear-Cattle Pass
271+77		℄	15 RCP	DMT				15"	24								1										Ret & Ext 24 Lt
276+43		℄	30" RCP in 18" RCP out			18"	6	18"	20								3										Ext 6 Rt 20 Lt Conc Ditch
279+54		℄	5x5 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 No Rt 4 16 Lt
289+35		Lt	15 CMP																								Retain
290+91		℄	18 RCP					18"	24								2								78°30'		Ext 12 Rt & 12 Lt Conc Ditch
291+00		Rt	2-18 CMP	SH	SH									5.9			21	6	72								Remove & Relay 36 Rt
293+94		℄	4' Tile																								To be Extended
299+55		℄	18 RCP	DMT				18"	20			1.5	153			2	6	2	4					64"			Remove & Relay 18" RCP Extend 12 Rt Retain
302+14		℄	18 RCP	DMT				18"	12								4	2						58 15"			Extend 12 Rt
303+21	304+09	Lt	10 CMP																								Retain
306+86	307+36	Lt	12 CMP	DMT								2.2	194			3.5	34	3	80								Remove & Relay 80 Lt
307+00		Rt	12 CMP														4										Remove
306+65	307+65	Rt		DMT		15"	100										45	4									Const Ditch on Rt
313+35		℄	18 RCP					18"	28								26	4	8								Remove, Relay & Ext Conc Ditch
320+08		℄	18 RCP					18"	20								33	4	48						80°		Remove, Relay & Ext Conc Ditch
323+91		℄	15 RCP					15"	16								4	3	8								DRIVE CULVERT
324+28		Rt	12 CMP																								Retain
326+34		℄	18 RCP	DMT				18"	12								1										Remove, Relay & Ext 12 Lt Conc Ditch
330+71		℄	18 RCP		SH			18"	8								1	2	4								Remove, Relay & Ext Rt Conc Ditch
335+115		℄	15 RCP					15"	24								3		4								Remove, Relay & Ext Rt Conc Ditch
341+625		℄	18 RCP	SH																							Retain
345+45		℄	15 RCP														17	3							70°10		Remove & Relay Rt 35' and set as Rt 35
348+06		℄	15 RCP	DMT				15"	20								3	2	4						61°		Remove, Relay & Ext Rt Conc Out Ditch
351+58		℄	15 RCP	DMT													4	2	24								Remove & Relay Rt Extend 20' Lt Ditch Relay Rt Ditch for Rt Ext Rt Ditch Relay
352+89		℄	15 RCP	To Box								0.2	25				3		16								Build DI Rt & Lt Ext Rt Ditch Relay Rt Ditch from Box Ext Rt Ditch Relay Rt Ditch from Box Ext Rt Ditch Relay Rt Ditch from Box

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	ACC&MP D	ACC&MP L	RCP D	RCP L	R C BOX S	R C BOX L	CONC B	REINF STEEL	CRM	DI GRATE	DEPTH DI	TRENCH EXCAV E	TRENCH EXCAV R	RELAY PIPE	Changing Elev. of C.B.& MH.	Sub-base of Gravel		Struct Exac.	Chan. Exca.	Askew Lt.	Askew Rt.	REMARKS
398'90		℄	24'RCP	SH				15"	16'								22	6	44						65°		Retain
402'01		℄	15'RCP					18"	16'								10	2	12								Remove & Relay & Extend Construct In Ditch
405'63		℄	18'RCP					18"	12'								13	3	20								Remove & Relay 20 Lt Ext 12' Lt.
407'10		℄	18'RCP	DI&T													43	3									Ext 20 Lt & 75 Rt Const In Ditch
411'69		℄	4'x4'CB	WF	WF					4'x4'	27.5	21.5	1974				4	3	4								Remove & Relay 24 Lt Ext 6' Rt & Ext. Const. Inlet Ditch
419'02.5		℄	15'RCP					15"	24'								3	1	8								Remove & Relay 8 Lt Ext 24 Lt
427'99		℄	24'RCP	SH				24"	24'								4										Ret & Ext 5 Rt
432'05		℄	4'x5'RCB	WF						4'x5'	5'	7.5	526				6	1	16								Rem. Relay 16 Rt & Ext. 8 Lt & 8 Rt Const In Ditches
436'52.5		℄	15'RCP					15"	16'																		Raise DI 1'
444'90		Rt		DI&G													1			1						28°	Retain
445'26		℄	15'RCP																								Connect DI to Rt pos. Const In Ditch Const New Catch Basin
445'65		Rt		Junc				15"	12'			0.2	25				4	1								60°10'	Remove & Relay 4 Lt
449'00		℄	15'RCP	SH				15"	8'								1		4								Extend Lt & Rt
453'37		Rt		SH	SH	15"	20'							30			8										DRIVE CULVERT
453'41		℄	4'x5'CB	WF	SH					4'x5'	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. & Relay 8 Rt Rem. & Relay 8 Lt Ext 8 Rt & Lt Const In Ditches
467'10		℄	24'RCP					24"	48'								3								76°15		Ret & Ext 5 Lt & Rt
* 468'88		Lt	12'CMP																								Construct Inlet Ditch
474'45		Rt	12'CMP														8		24								Retain
476'47		℄	3'x3'CB	WF	SH					3'x3'	1.4'	8.1	860				8	1									Remove & Relay
484'12		℄	24'CMP			24"	28'										1										Ext 14 Rt. Const In Ditch
489'10		℄	18'CMP	DI&T		18"	4'									5.5'	8	2							13°15		Extend 20 Lt & 8 Rt.
492'75		Rt	12'CMP														6										Ret & Ext 4 Rt DI&T Rt
495'15		℄	12'RCP	DI&T	CB			12"	4'							3'	7	1		1							Removq
497'13	497'47	Rt	12'RCP	DI&G																1							Ret & Ext 4 Rt. New DI&T Rt Raise DI 1' Rt
497'65		℄	15'RCP	DI&G																1							Ret & Raise DI 6"
499'73		℄	18'RCP	Jct Box				18"	52'								1			1					63°30		Ret & Raise DI 1'
499'80	501'24	Lt	12'RCP	DI&G													15								47°15		Ret & Ext. 32' Lt. Convert DI to Jct Box
501'60		℄	12'RCP	DI&G																1							Retain & Raise DI 6"
501'89	503'12	Rt	12'RCP	Jct Box																					31°		Retain DI 501'+92.5 Rt
503'14		Rt	12'RCP					12"	16'								1										Ret & Convert DI to Jct B DI&T
505'00		Rt	12'RCP	DI&G													1										Connect to Jct B & Ext Rt
505'01	505'79	Rt	12'RCP																	1							DI Covered Ret & Raise DI 6"
505'81	506'46	Rt	12'RCP														1										Retain
505'90		Rt		DI&G													1										Retain
506'47		℄	18'RCP	DI&G	Jct Box															1							Ret & Raise DI 6"
507'27		Rt		DI&G		END GOV'T PARTICIPATION											2		8								Ret & Raise Jct Box 2' Relay 4 Lt
508'72		Lt	12'CGMP	DI&G													1			1							Ret & Ext 7 Rt
511'40		℄	15'RCP	DI&T				15"	4'			2.8	250			5		12		1							Ret & Raise DI 6"
516'52.5		℄	18'CMP	DI&T	Jct Box	18"	30'					3.3	282			6	5								78°45		Ext 4 Rt Conv DI&T Rt
517'81		℄	18'CMP			18"	12'										2									84°	Const 5' Pipe Extend Pipe Down Slope
520'00		Rt	12'CMP														6										Ret & Ext 12' Lt.
521'06		℄	15'RCP	SH				15"	4'								2		8								DRIVE CULVERT Remove
522'00		℄	15'x15'SB			18"	14'																				Relay 8 Lt Ext 4 Lt
524'75		Lt	12'CGMP														1										Retain & Extend 14 Lt
530'48		℄		DI&G	DI&G												3	2		2							Retain
535'29		℄	3.5'x4.5'SB	DI&G																1							Ret & Raise DI's 6"
* 179'16		℄	9'x8'RCP	WF	GOV'T.							27.0	1666										16	2			Raise DI Lt. Remove DI Rt
* 467'80		Lt				12"	10'																				Ret & Ext 7 Rt
Sub Totals of This Sheet			Govt.			18" 24"	28' 4'	12" 15" 24"	52 112 80	Boxes		13.1	5680	3.0		Boxes	67	5					16	2			Ext. Out of Underdrain
						24"	28'	15" 24"	80 92	Pipes		0.2	2.5			Pipes	1.40	21	152	8							
			Non	Govt.		12"	10'	15"	8'			6.1	532				19	14	8	4							
						18"	56'																				
Totals For 4 Sheets Govt.						12" 15" 18" 24" 30" 72"	58 186 10 60 122	12" 15" 18" 24" 30" 36" 42"	156 604 512 180 180 180 180	Boxes Pipes		158.9 15.8	1351.0 124.0	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

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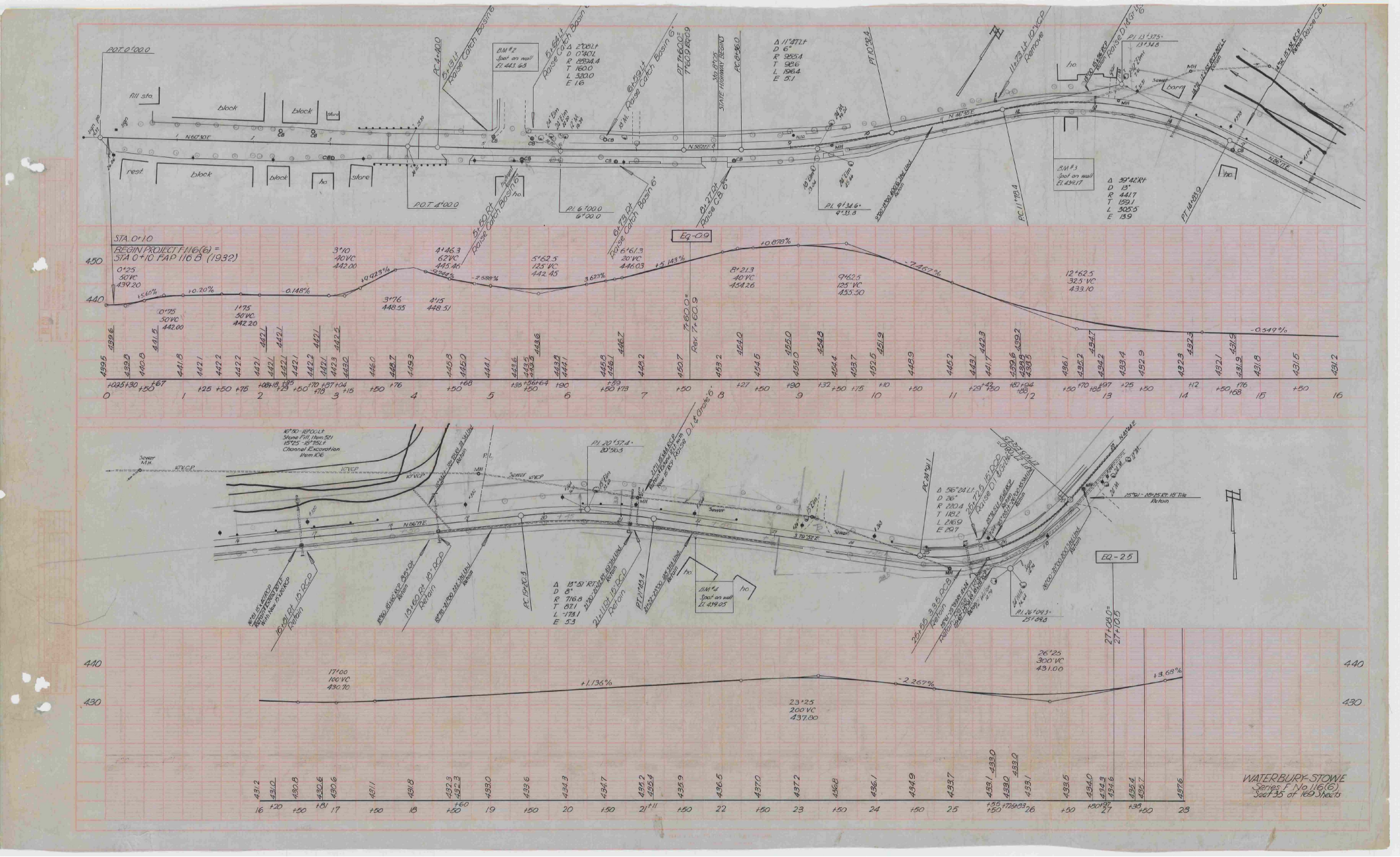
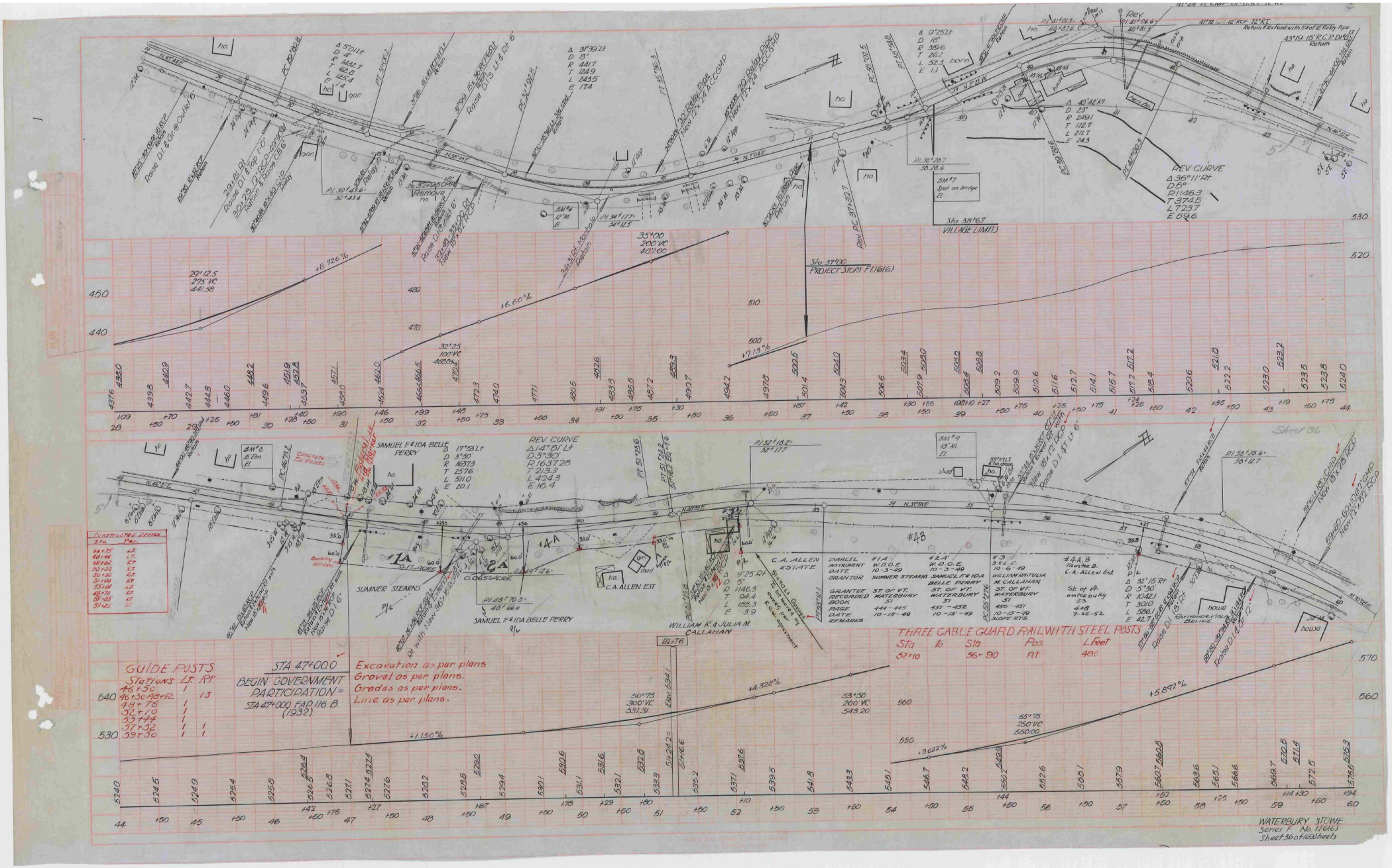
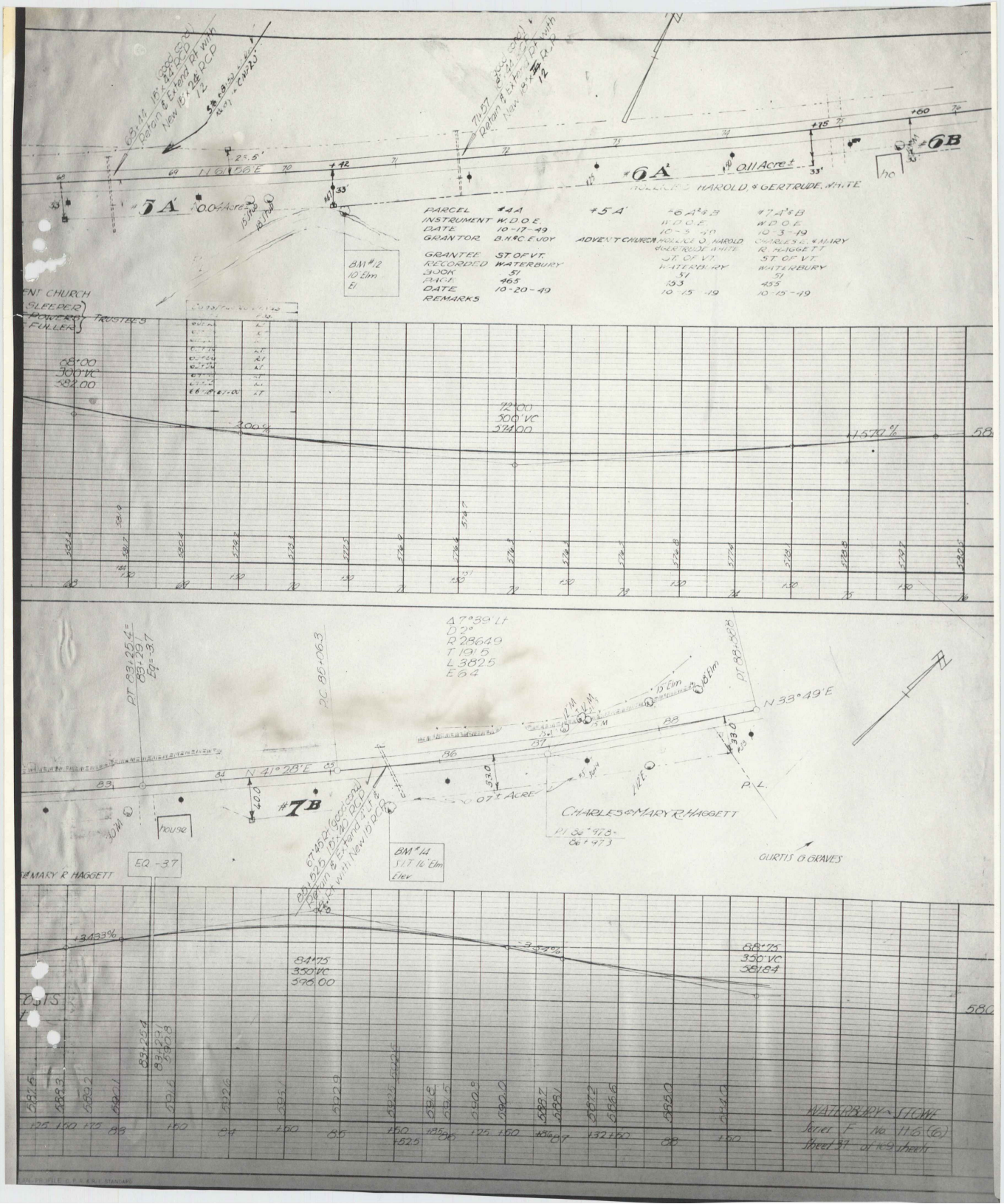


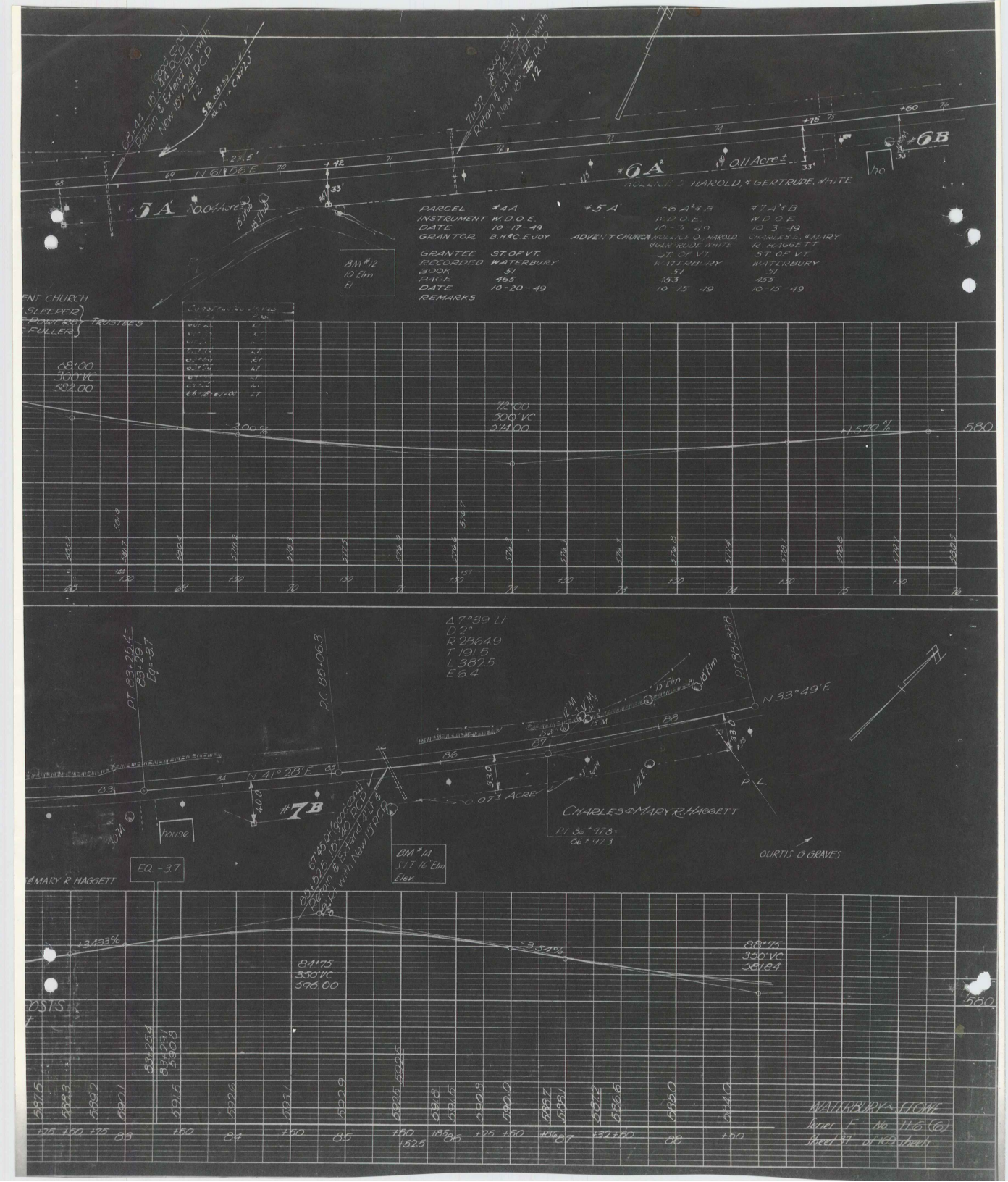
STA. 0+10
BEGIN PROJECT F116(6) =
STA 0+10 FAP 116 B (1932)
Eq-0.9
Eq-2.5
WATERBURY-STOWE
Series F No 116(6)
Sect 35 of 169 Sheets



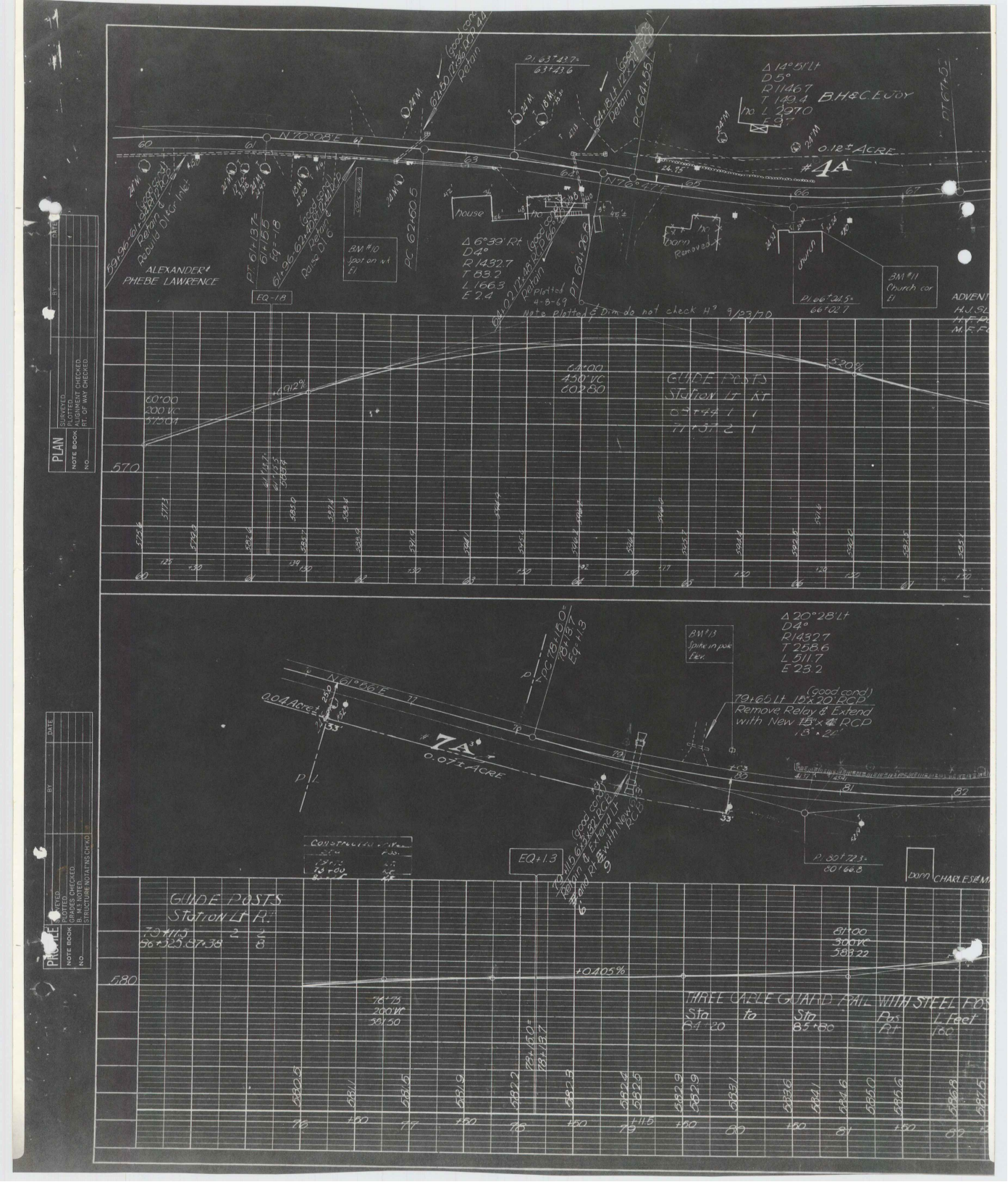
REV. CURVE
Δ 36°11' Rt
D 5°
R 1146.3
T 374.5
L 723.7
E 59.6
Sta 38+67
VILLAGE LIMITS
Sta 37+00
PROJECT STOPS F1.16(6)
REV. CURVE
Δ 14°51' Lt
D 3°30'
R 1637.28
T 213.3
L 424.3
E 16.4
SAMUEL F. & IDA BELLE PERRY
SUMNER STEARNS
C.A. ALLEN EST.
WILLIAM R. & JULIA M. CALLAHAN
C.A. ALLEN ESTATE
Sheet 36
GUIDE 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.
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
52+10 56+90 Rt 480
WATERBURY STOWE
Series F No. 1.16(6)
Sheet 36 of 169 Sheets



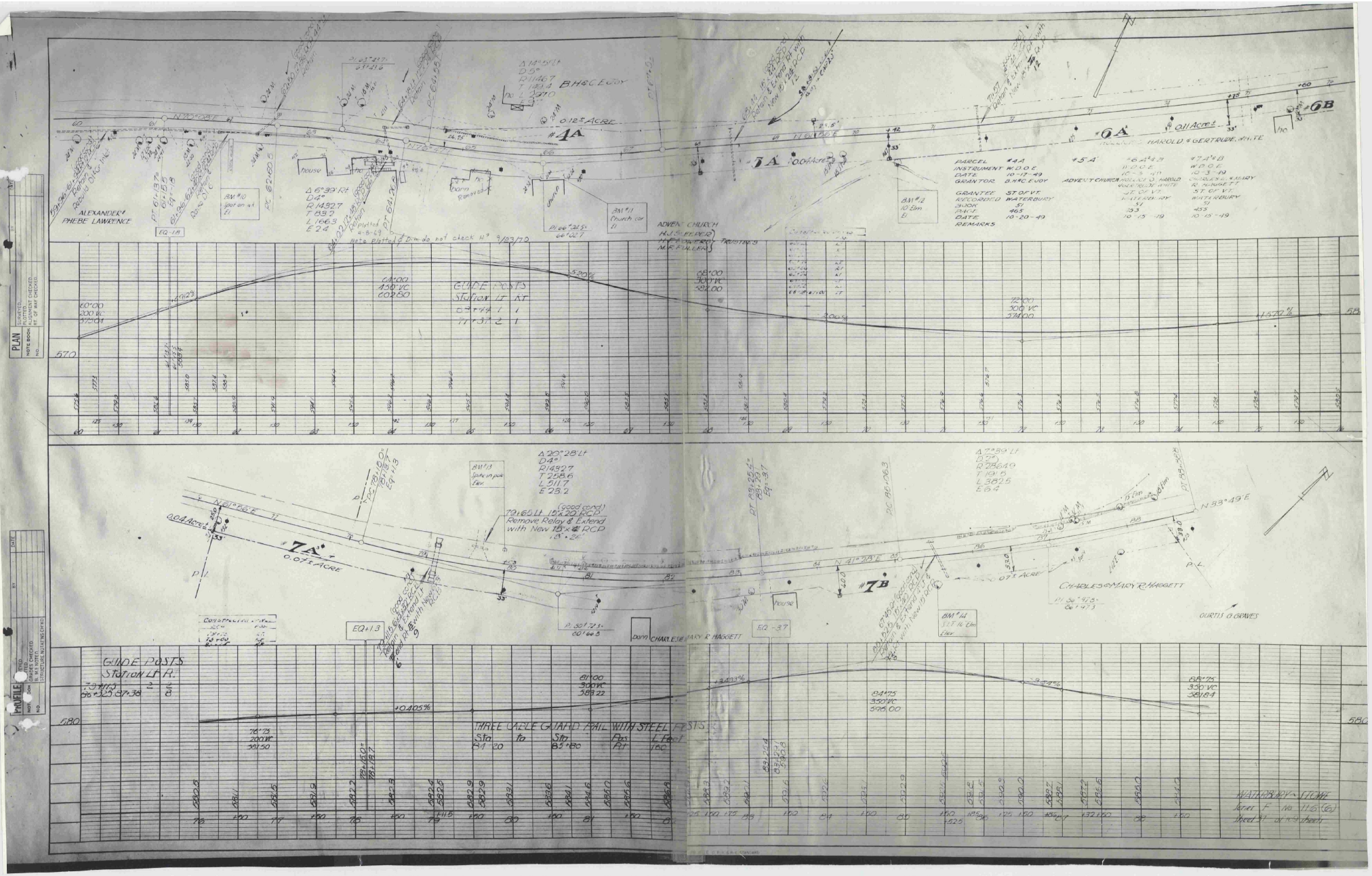
#5A
#6A
#6B
#7B
0.04 Acre±
0.11 Acre±
HOLLICE O. HAROLD & GERTRUDE WHITE
PARCEL #4A
INSTRUMENT W.D.O.E.
DATE 10-17-49
GRANTOR B.H.&C.E. JOY
GRANTEE ST. OF VT.
RECORDED WATERBURY
BOOK 51
PAGE 465
DATE 10-20-49
REMARKS
#5A
ADVENT CHURCH
#6A & B
W.D.O.E.
10-3-49
HOLLICE O. HAROLD
& GERTRUDE WHITE
ST. OF VT.
WATERBURY
51
453
10-15-49
#7A & B
W.D.O.E.
10-3-49
CHARLES E. & MARY
R. HAGGETT
ST. OF VT.
WATERBURY
51
455
10-15-49
BM #12
10' Elm
El.
ENT CHURCH
SLEEPER
POWERS
FULLER
TRUSTEES
68+00
300' VC
582.00
72+00
500' VC
574.00
-2.00%
+1.579%
Δ 7°39' Lt
D 2°
R 2864.9
T 191.5
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
N 41°28' E
#7B
0.07± ACRE
CHARLES & MARY R. HAGGETT
P.L.
house
BM #14
S.I.T. 16' Elm
Elev.
GURTIS G. GRAVES
EQ. -3.7
MARY R. HAGGETT
+3.433%
-3.54%
84+75
350' VC
596.00
88+75
350' VC
581.84
WATERBURY - STOWE
Series F No. 11-6 (6)
Sheet 37 of 169 sheets



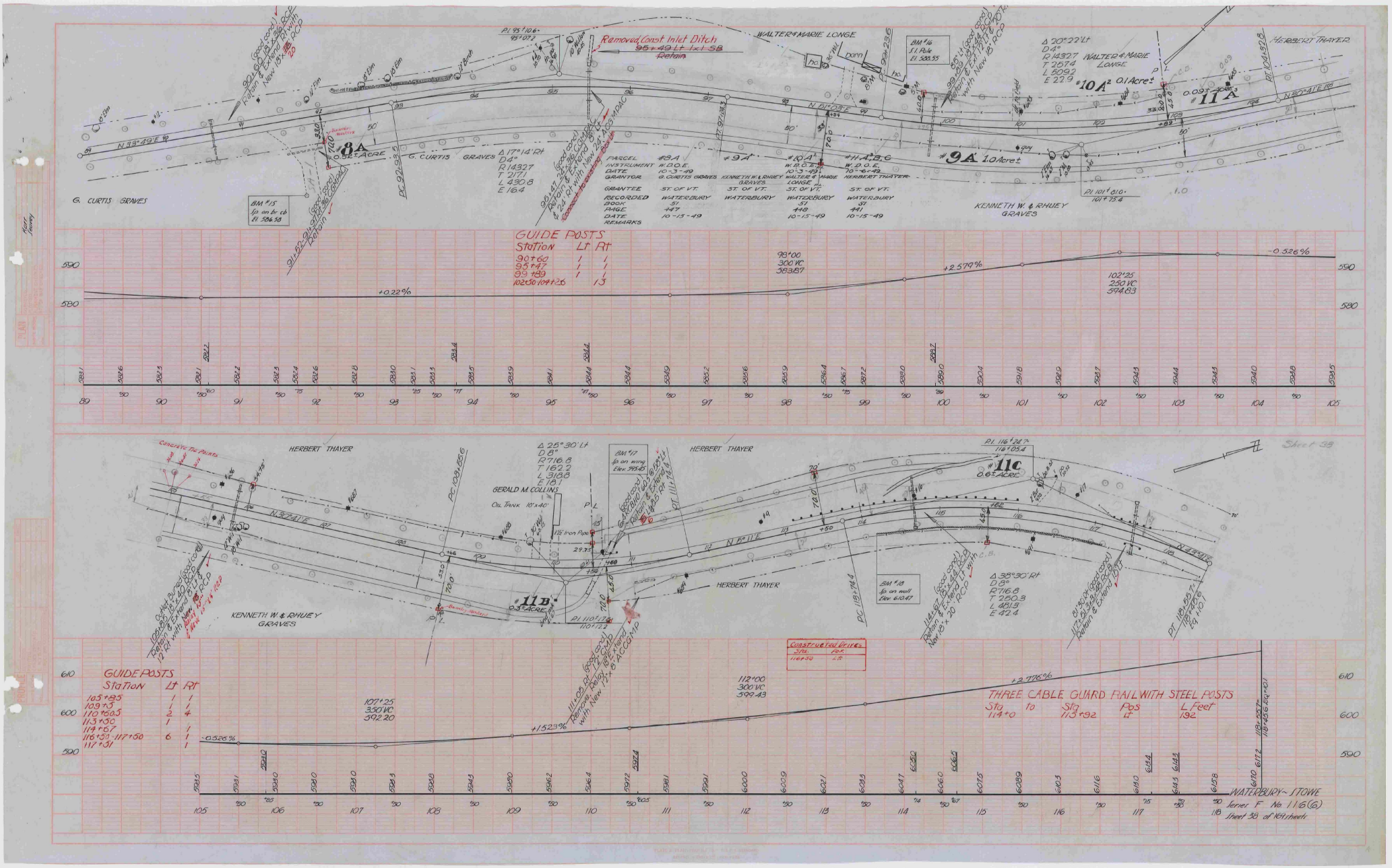
#5A
#6A
#6B
#7B
0.04 Acre
0.11 Acre ±
HOLLICE O. HAROLD, & GERTRUDE, WHITE
PARCEL #4A #5A #6A & B #7A & B
INSTRUMENT W.D.O.E. W.D.O.E. W.D.O.E.
DATE 10-17-49 10-3-49 10-3-49
GRANTOR B.H. & C.E. JOY ADVENT CHURCH HOLLICE O. HAROLD, & GERTRUDE WHITE CHARLES E. & MARY R. HAGGETT
GRANTEE ST. OF VT. ST. OF 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
68+00 300' VC 582.00
72+00 500' VC 574.00
-3.00%
+1.579%
580
Δ 7°39' Lt
D 2°
R 2864.9
T 191.5
L 382.5
E 6.4
N 33°49' E
N 41°28' E
CHARLES & MARY R. HAGGETT
P.L.
house
BM #14 S.I.T. 16" Elm Elev.
EQ -3.7
MARY R. HAGGETT
OURTIS G. GRAVES
84+75 350' VC 596.00
88+75 350' VC 581.84
+3.433%
-3.57%
580
WATERBURY - STOWE
Series F No. 11-6 (6)
Sheet 37 of 169 sheets



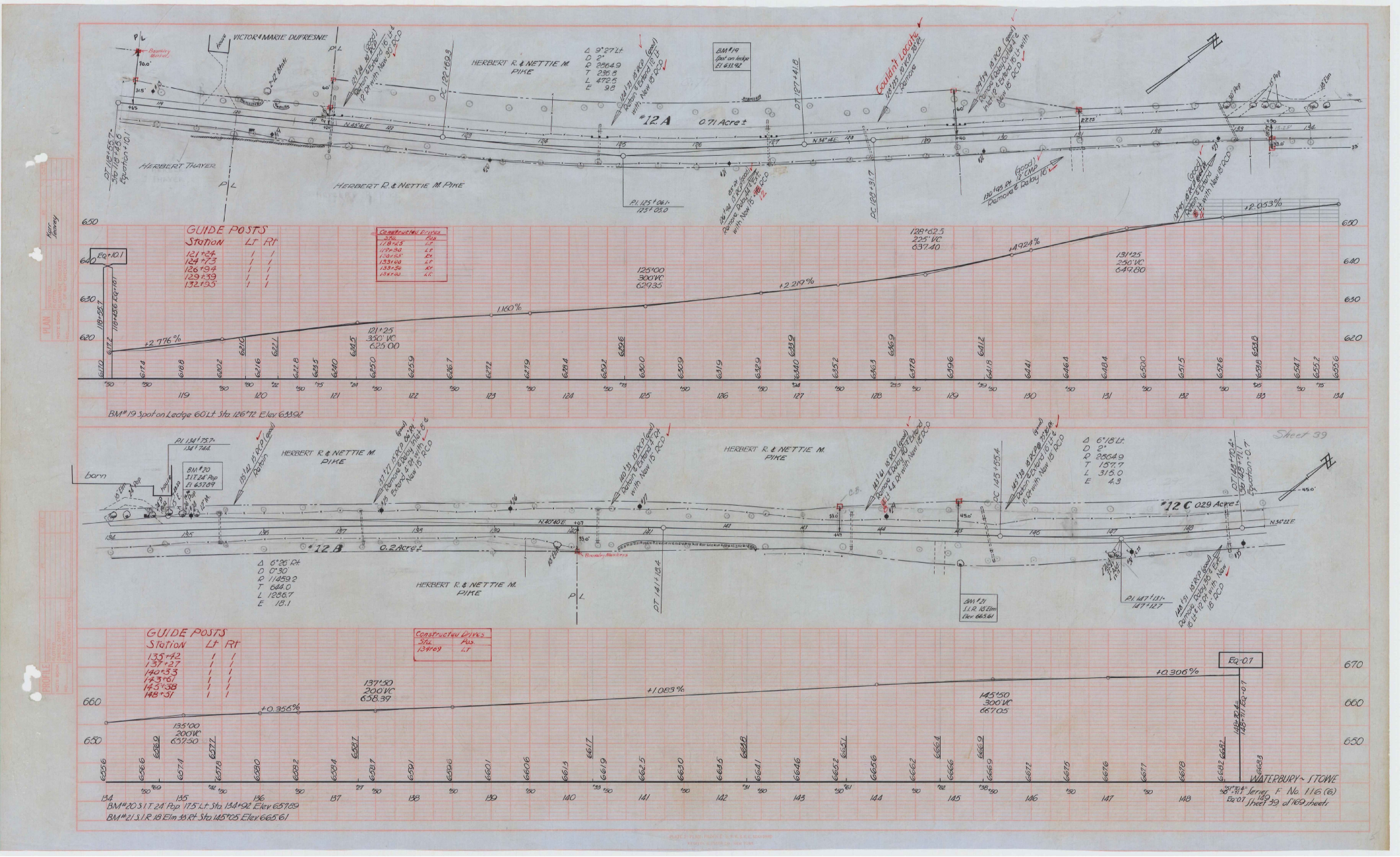
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTAT'NS CH'KD
N 70°08'E
N 76°47'E
0.12± ACRE
#4A
Δ 14°51' Lt
D 5°
R 1146.7
T 149.4
L 297.0
B.H.&C.E. JOY
ALEXANDER & PHEBE LAWRENCE
EQ-1.8
BM #10 Spot on wk El
PC 62+60.5
house
Δ 6°39' Rt
D 4°
R 1432.7
T 83.2
L 166.3
E 2.4
PT 64+26.8
Plotted 4-8-69
Note plotted & Dim do not check H? 9/23/70
BM #11 Church cor El
PI 66+24.5= 66+02.7
ADVENT
GUIDE POSTS
Station Lt Rt
64+00
450' VC
602.80
60+00
200' VC
575.04
+4.912%
5.20%
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°56'E
0.04 Acre±
#7A
0.07± ACRE
79+65 Lt 15"x20' RCP (good cond)
Remove Relay & Extend with New 15"x 4 RCP
EQ+1.3
PI 80+72.3= 80+66.8
barn
CHARLES & M
GUIDE POSTS
Station Lt Rt
79+11.5 2 2
86+525.87+38 8
580
+0.405%
81+00
300' VC
583.22
78+75
200' VC
581.50
THREE CABLE GUARD RAIL WITH STEEL POS
Sta to Sta Pos L Feet
84+20 85+80 Rt 160

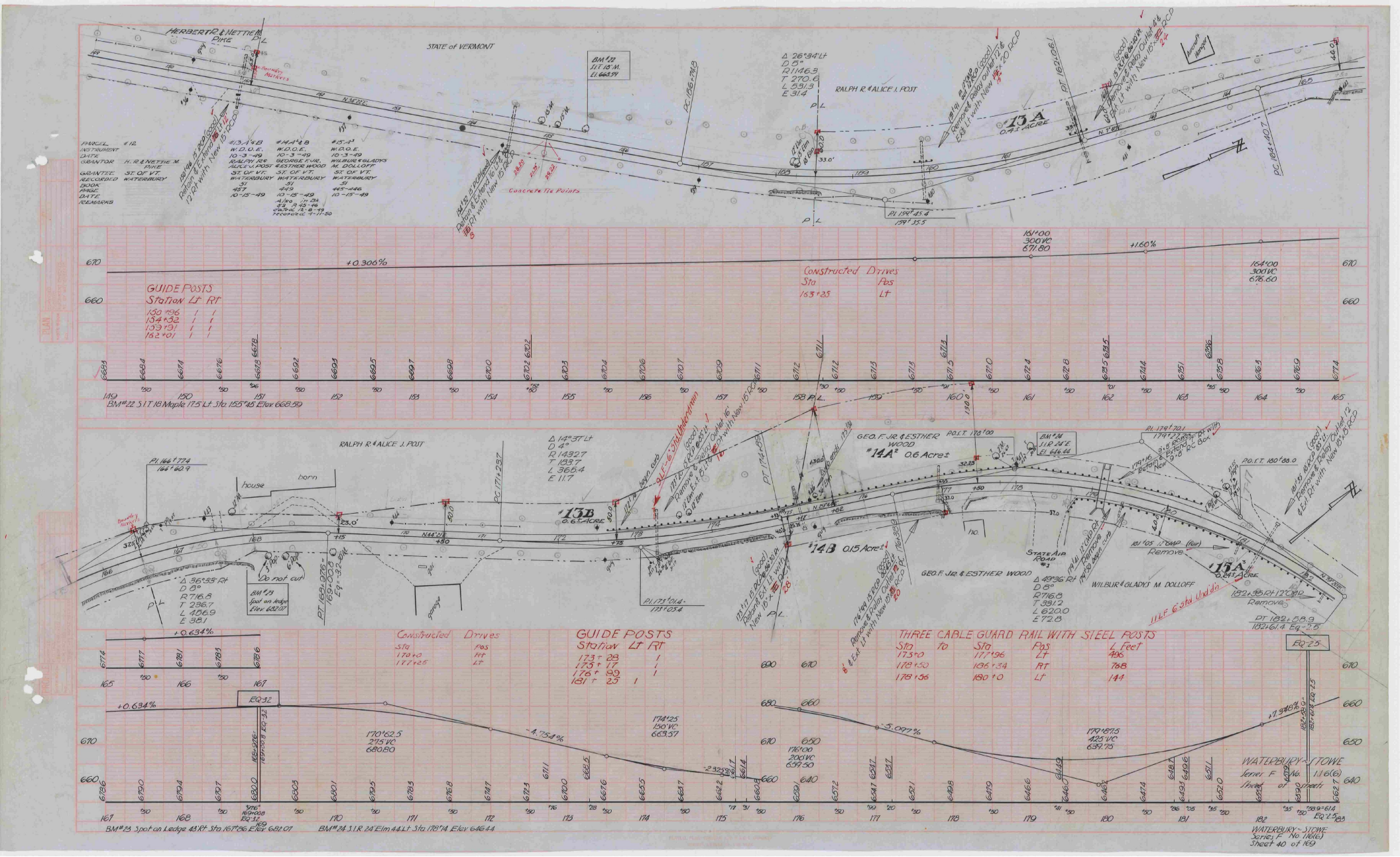


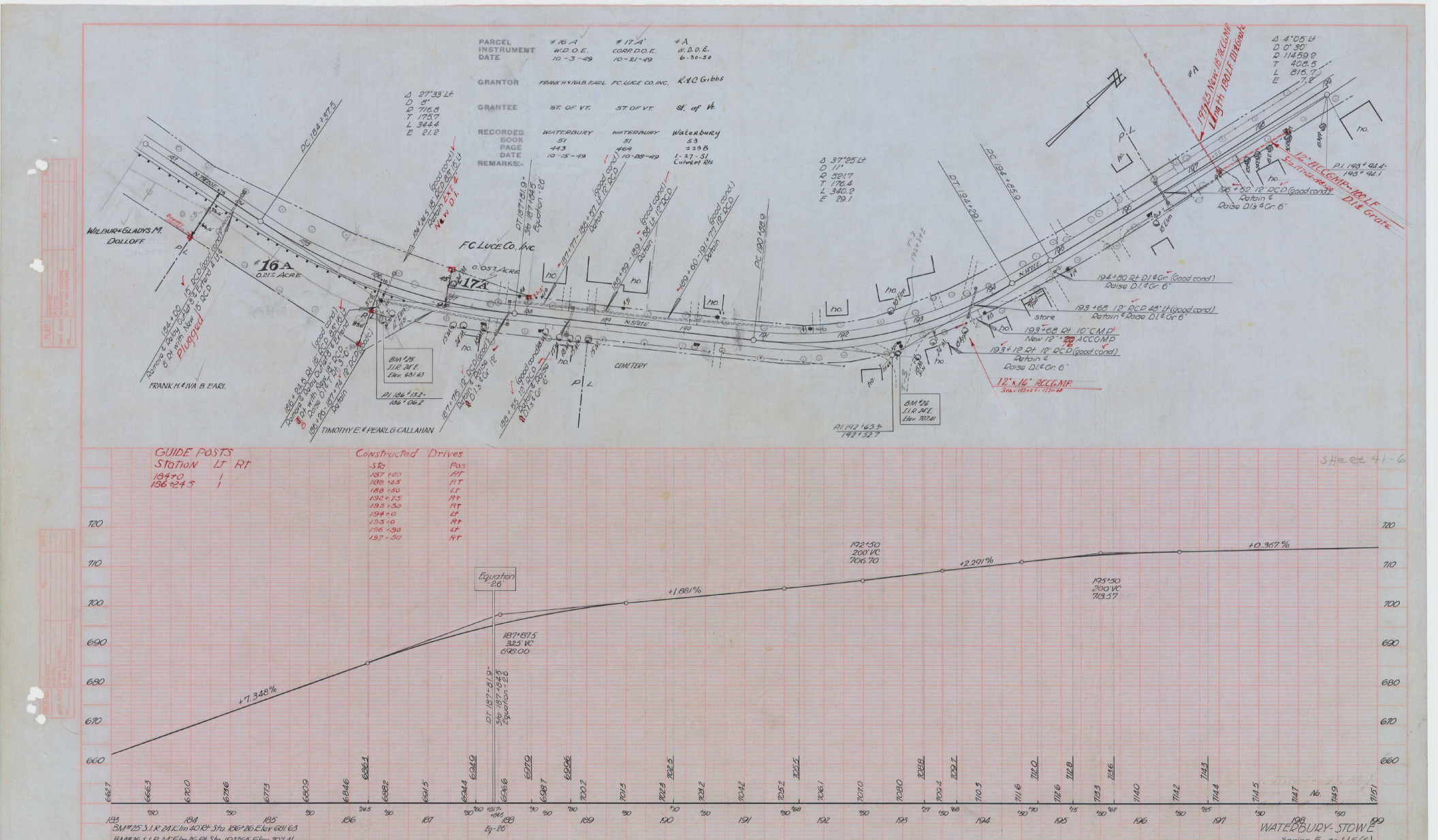
PLAN
PROFILE
ALEXANDER & PHEBE LAWRENCE
B.H.&C.E.JOY
#4A
#5A
#6A
#6B
#7A
#7B
HOLLICE O. HAROLD & GERTRUDE WHITE
ADVENT CHURCH
PARCEL #4A
INSTRUMENT W.D.O.E.
DATE 10-17-49
GRANTOR B.H.&C.E.JOY
GRANTEE ST. OF VT.
RECORDED WATERBURY
BOOK 51
PAGE 465
DATE 10-20-49
REMARKS
GUIDE POSTS
Station Lt Rt
Remove Relay & Extend with New 15"x24" RCP
CHARLES & MARY R. HAGGETT
GURTIS G. GRAVES
THREE CABLE GUARD RAIL WITH STEEL POSTS
WATERBURY - STOWE
Series F No. 116(6)
Sheet 31 of 109 sheets

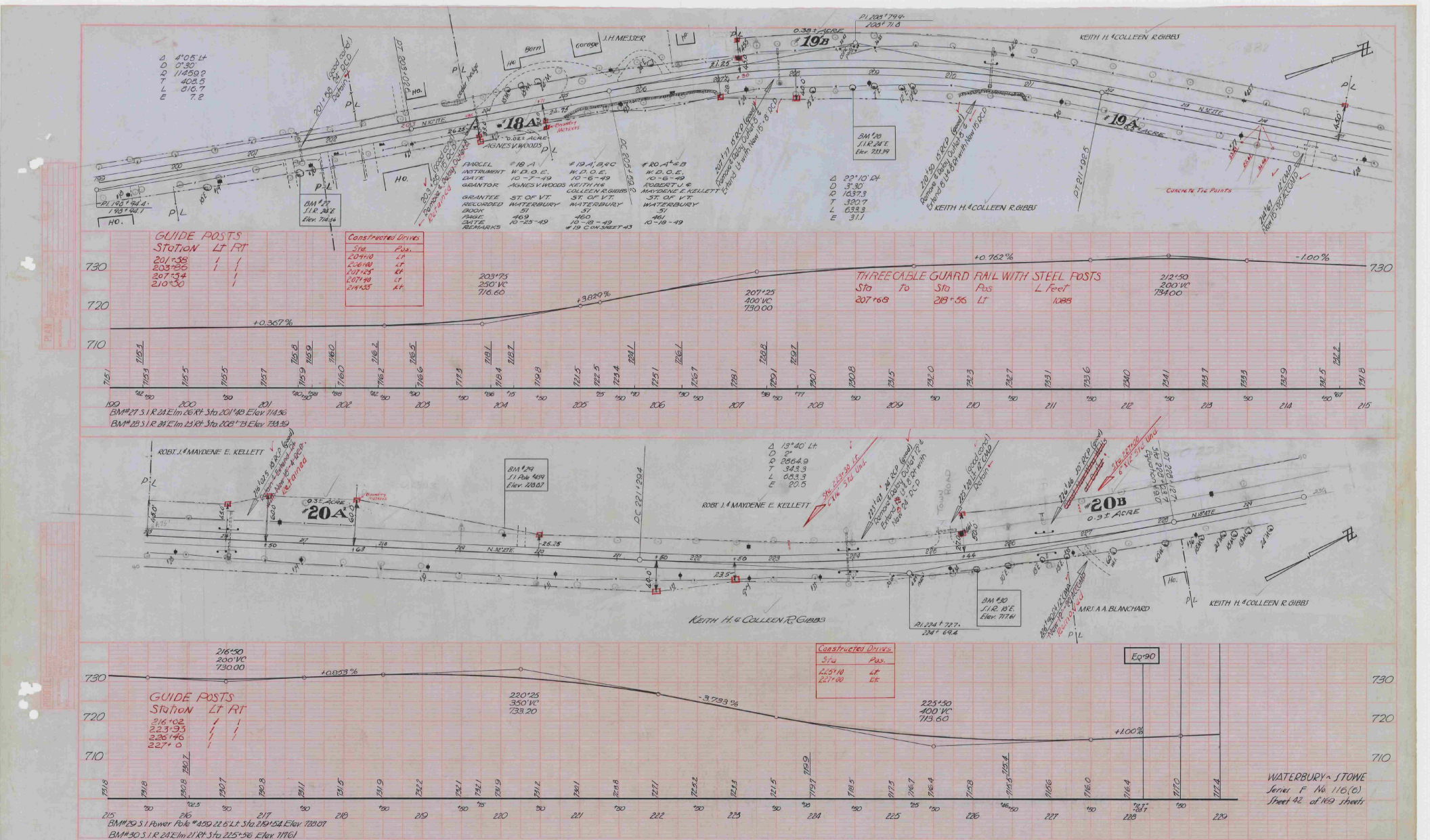


Removed, Const Inlet Ditch
95+49 Lt 1x1 SB
Retain
WALTER & MARIE LONGE
HERBERT THAYER
G. CURTIS GRAVES
KENNETH W. & RHUEY GRAVES
GERALD M. COLLINS
Oil Tank 10'x40'
#8A
#9A
#10A
#11A
#11B
#11C
Sheet 38
GUIDE POSTS
Station Lt Rt
90+60 1 1
95+47 1 1
99+89 1 1
102+50-104+26 1 3
GUIDE POSTS
Station Lt Rt
105+85 1 1
109+5 1 1
110+60.5 2 4
113+50 1 1
114+67 1 1
116+50-117+50 6 1
117+51 1 1
Constructed Drives
Sta. Pos.
116+50 Lt
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 161 sheets

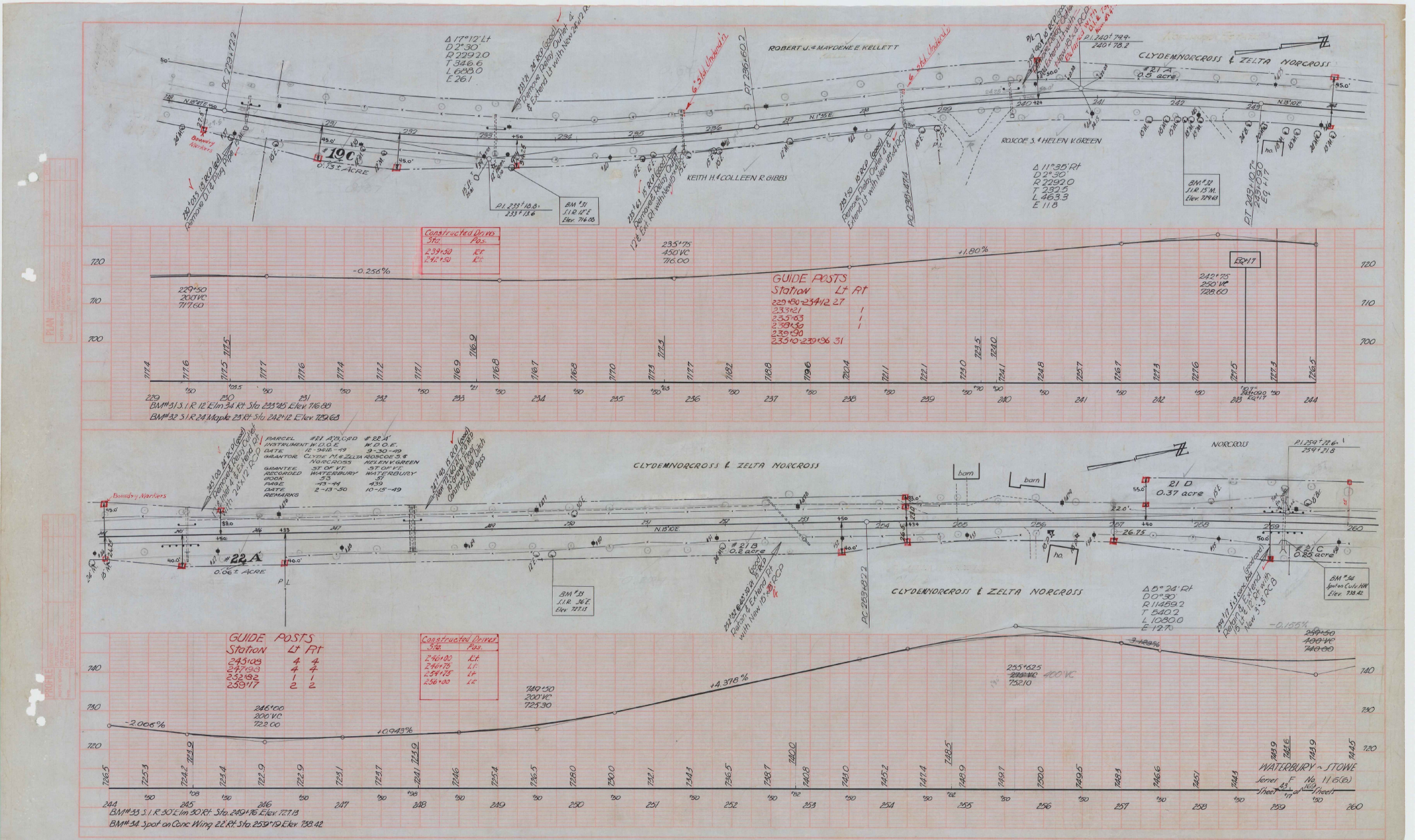

VICTOR & MARIE DUFRESNE
HERBERT R. & NETTIE M. PIKE
HERBERT THAYER
HERBERT R. & NETTIE M. PIKE
#12 A 0.71 Acre±
Δ 9°27' Lt.
D 2°
R 2864.9
T 236.8
L 472.5
E 9.8
DC 122+09.3
DT 127+41.8
DT 118+55.7
Sta 118+43.6
Equation +10.1
DC 128+31.7
P.I. 125+06.1
125+05.0
BM #19
Spot on ledge
El 633.92
Coulter & Logtite
125+35 to 126+10
Remove
Boundary Monument
Remove & Relay 10'
Remove & Relay 16'
Eq=10.1
118+43.6 Eq=10.1
GUIDE POSTS
Station Lt. Rt.
121+24 / /
124+73 / /
126+94 / /
129+39 / /
132+95 / /
Constructed Drives
Sta. Pos.
118+25 Lt.
119+30 Lt.
133+00 Rt.
133+50 Rt.
125°00
300' VC
629.35
121+25
350' VC
625.00
128+62.5
225' VC
637.40
131+25
250' VC
649.80
-2.776%
-1.160%
+2.219%
+4.924%
+2.053%
BM #19 Spot on Ledge 60' Lt. Sta. 126+72 Elev 633.92
born
BM #20
3 I T 24' Pop
El 657.89
HERBERT R. & NETTIE M. PIKE
#12 B 0.2 Acre±
#12 C 0.29 Acre±
Δ 6°26' Rt.
D 0°30'
R 11459.2
T 644.0
L 1288.7
E 18.1
Δ 6°18' Lt.
D 2°
R 2864.9
T 157.7
L 315.0
E 4.3
P.I. 134+73.7
134+74.4
P.I. 141+13.4
P.I. 147+81.1
147+12.7
DC 145+55.4
DT 145+70.4
Sta 145+71.1
Equation -0.7
BM #21
3 I R 18 Elm
El 665.61
Sheet 39
GUIDE POSTS
Station Lt. Rt.
135+42 / /
137+27 / /
140+33 / /
143+61 / /
145+38 / /
148+31 / /
Constructed Drives
Sta. Pos.
134+69 Lt.
135°00
200' VC
652.50
137+50
200' VC
658.39
145°50
300' VC
667.05
+0.356%
+1.083%
+0.306%
Eq=0.7
BM #20 3 I T 24' Pop 175' Lt. Sta 134+92 Elev 657.89
BM #21 3 I R 18 Elm 33 Rt. Sta 145+05 Elev 665.61
WATERBURY - STOWE
Scale: Horiz. 1" = 50' Vert. 1" = 10'
Survey F. No. 116 (6)
Eq=0.7
Sheet 39 of 169 sheets

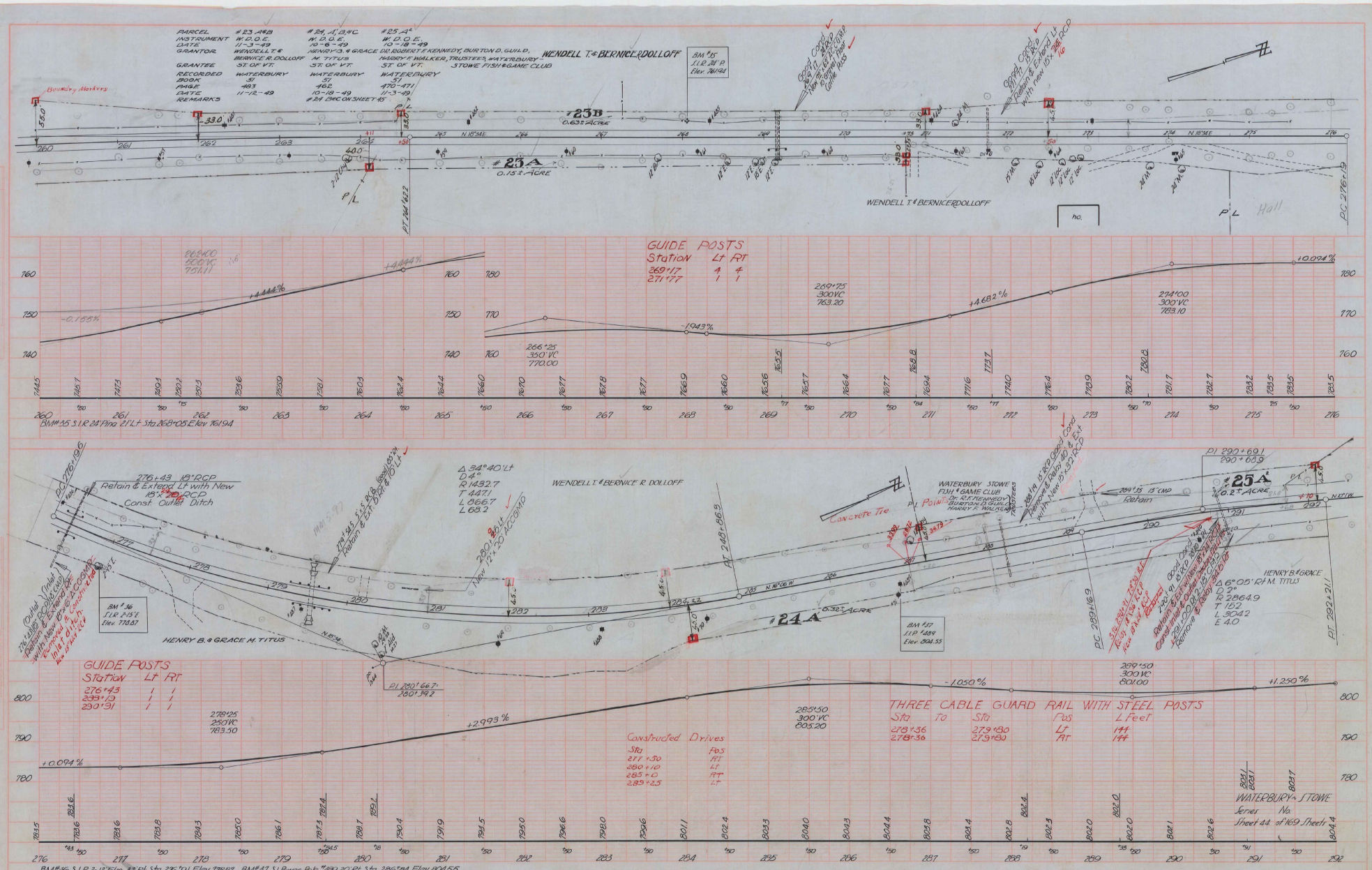

HERBERT R. & NETTIE M. PIKE
STATE of VERMONT
RALPH R. & ALICE I. POST
#13A 0.43± ACRE
#13B 0.6± ACRE
#14A 0.6 Acre±
#14B 0.15 Acre±
#15A 0.24± ACRE
GEO. F. JR. & ESTHER WOOD
WILBUR & GLADYS M. DOLLOFF
PARCEL #12
INSTRUMENT
DATE
GRANTOR H. R. & NETTIE M. PIKE
GRANTEE ST. OF VT.
RECORDED WATERBURY
BOOK
PAGE
DATE
REMARKS
#13A & B W.D.O.E. 10-3-49 RALPH R. & ALICE I. POST ST. OF VT. WATERBURY 91 457 10-15-49
#14A & B W.D.O.E. 10-3-49 GEORGE F. JR. & ESTHER WOOD ST. OF VT. WATERBURY 91 449 10-15-49 41.89 1-2pk 23.9 9-15-46 Deeds 12-8-49 recorded 9-11-50
#15A W.D.O.E. 10-3-49 WILBUR & GLADYS M. DOLLOFF ST. OF VT. WATERBURY 91 445-446 10-15-49
GUIDE POSTS
Station Lt Rt
150+96 1 1
134+32 1 1
139+91 1 1
162+01 1 1
Constructed Drives
Sta Pos
163+25 Lt
GUIDE POSTS
Station Lt Rt
173+28 1
175+17 1
176+99 1
181+25 1
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
173+70 177+96 Lt 406
178+50 186+34 Rt 768
178+56 180+10 Lt 144
Constructed Drives
Sta Pos
170+10 Rt
177+25 Lt
+0.306%
+1.60%
+0.634%
-4.754%
-5.097%
+7.340%
164+00 300 VC 671.80
164+00 300 VC 676.60
170+62.5 275 VC 680.80
174+25 150 VC 669.57
176+00 200 VC 659.50
179+87.5 425 VC 639.75
EQ 32
EQ 25
BM #22 5.1' Lt. 18" Maple 17.5 Lt. Sta. 155+45 Elev. 668.59
BM #23 Spot on Ledge 43 Rt. Sta 161+86 Elev. 682.07
BM #24 3.1' Rt. 24" Elm 44.1 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. CORR.D.O.E. W.D.O.E.
DATE 10-3-49 10-21-49 6-30-50
GRANTOR FRANK H. & NAB. EARL F.C. LUCE CO. INC. K & O Gibbs
GRANTEE ST. OF VT. ST. OF VT. St. of Vt.
RECORDED BOOK 51 51 53
PAGE 443 468 239 B
DATE 10-15-49 10-28-49 1-27-51
REMARKS:- Culvert Rts
Δ 27°39' 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 340.9
E 29.1
Δ 4°05' Lt
D 0°30'
R 1145.9
T 40.8.5
L 81.6.7
E 7.8
WILBUR & GLADYS M. DOLLOFF
#16A 0.21± ACRE
#17A 0.05± ACRE
F.C. LUCE CO. INC.
FRANK H. & NAB. EARL
TIMOTHY E. & PEARL G. CALLAHAN
CEMETERY
store
P.C. 184+37.5
P.C. 194+85.9
P.C. 190+68.9
P.T. 194+29.1
P.I. 186+24.5
P.I. 187+21.9
P.I. 192+65.3
P.I. 193+94.4
BM #25 S.I.R. 24' E. Elev. 601.63
BM #26 S.I.R. 24' E. Elev. 707.41
Remove & Bury Culvert & 6" Dr. with New 15" RCD Plugged
New 15" RCD
Retain & Extend 15" RCD
Retain & Raise D.I. & Gr. 6"
New 12" RCP
New 12" RCC.G.M.P. Sta. 193+28 - 193+48
New 18" RCC.G.M.P. 139± LF with 180 LF Ditch
12" RCC.G.M.P. Sta. 193+28 - 193+48 - 100 LF D.I. & Grate
Retain & Raise D.I. & Gr. 6"
193+68 Rt 10" C.M.P. New 12" ACCO.M.P.
193+18 Rt 12" RCP (Good cond.)
194+80 Rt D.I. & Gr. (Good cond.)
193+68 12" RCP 48° Lt (Good cond.)
Retain & Raise D.I. & Gr. 6"
198+50 12" RCP (Good cond.)
Retain & Raise D.I. & Gr. 6"
GUIDE POSTS
Station Lt Rt
184+70 1
186+24.5 1
Constructed Drives
Sta Pos
187+60 RT
188+25 RT
188+60 LT
192+75 RT
193+50 RT
194+0 LT
193+10 RT
195+30 LT
197+50 RT
+7.348%
+1.981%
+2.291%
+0.367%
192+50 200' VC 706.70
195+50 200' VC 719.37
187+87.5 325' VC 698.00
Equation -2.6
D.I. 187+21.9 = Sta. 187+46.6 Equation -2.6
Sheet 41-6
WATERBURY-STOWE
Series F no 116(6)
Sheet 41 of 169

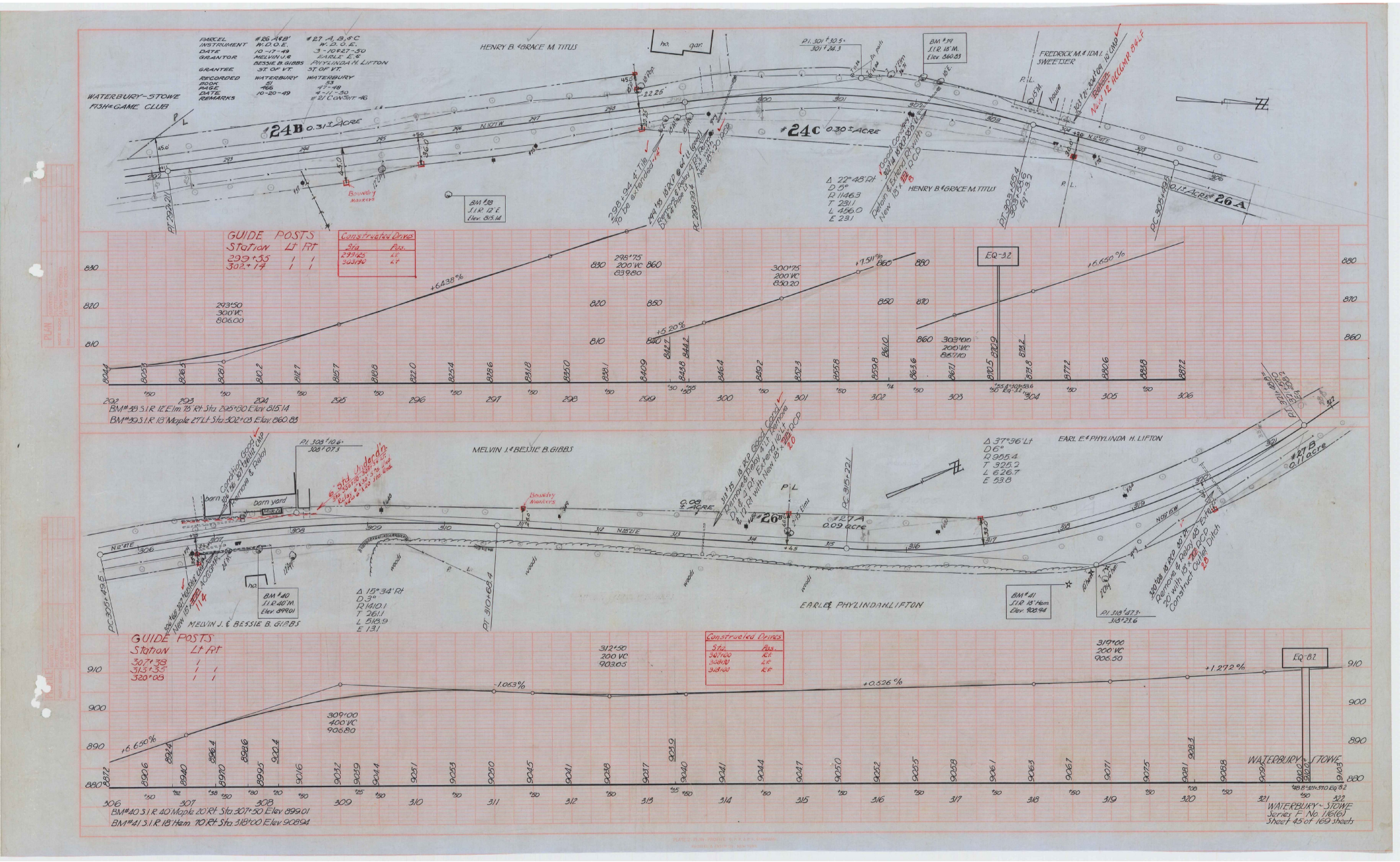


#18A
0.65± ACRE
AGNES V. WOODS
PARCEL #18 A
INSTRUMENT W.D. O.E.
DATE 10-7-49
GRANTOR AGNES V. WOODS
GRANTEE ST. OF VT.
RECORDED WATERBURY
BOOK 51
PAGE 469
DATE 10-25-49
REMARKS
#19A, B & C
W.D. O.E.
10-6-49
KEITH H. & COLLEEN R. GIBBS
ST. OF VT.
WATERBURY
51
460
10-28-49
#19 CONT. SHEET 43
#20 A & B
W.D. O.E.
10-15-49
ROBERT J. & MAYDENE E. KELLETT
ST. OF VT.
WATERBURY
51
461
10-18-49
#19B
0.38± ACRE
KEITH H. & COLLEEN R. GIBBS
#19A
0.55± ACRE
KEITH H. & COLLEEN R. GIBBS
Concrete Tie Points
#20A
0.03± ACRE
ROBT. J. & MAYDENE E. KELLETT
#20B
0.9± ACRE
ROBT. J. & MAYDENE E. KELLETT
KEITH H. & COLLEEN R. GIBBS
MRS. A. A. BLANCHARD
KEITH H. & COLLEEN R. GIBBS
J. H. MESSER
Barn
Garage
Ho.
Bounty Markers
Found Round Iron Pin
Found Rock Corner
Found Iron Pin
Found Drill Hole
Found Iron Pipe
Found Stone Corner
Found Iron Pin & Cap
Found Iron Pin & Stone
Found Iron Pin & Drill Hole

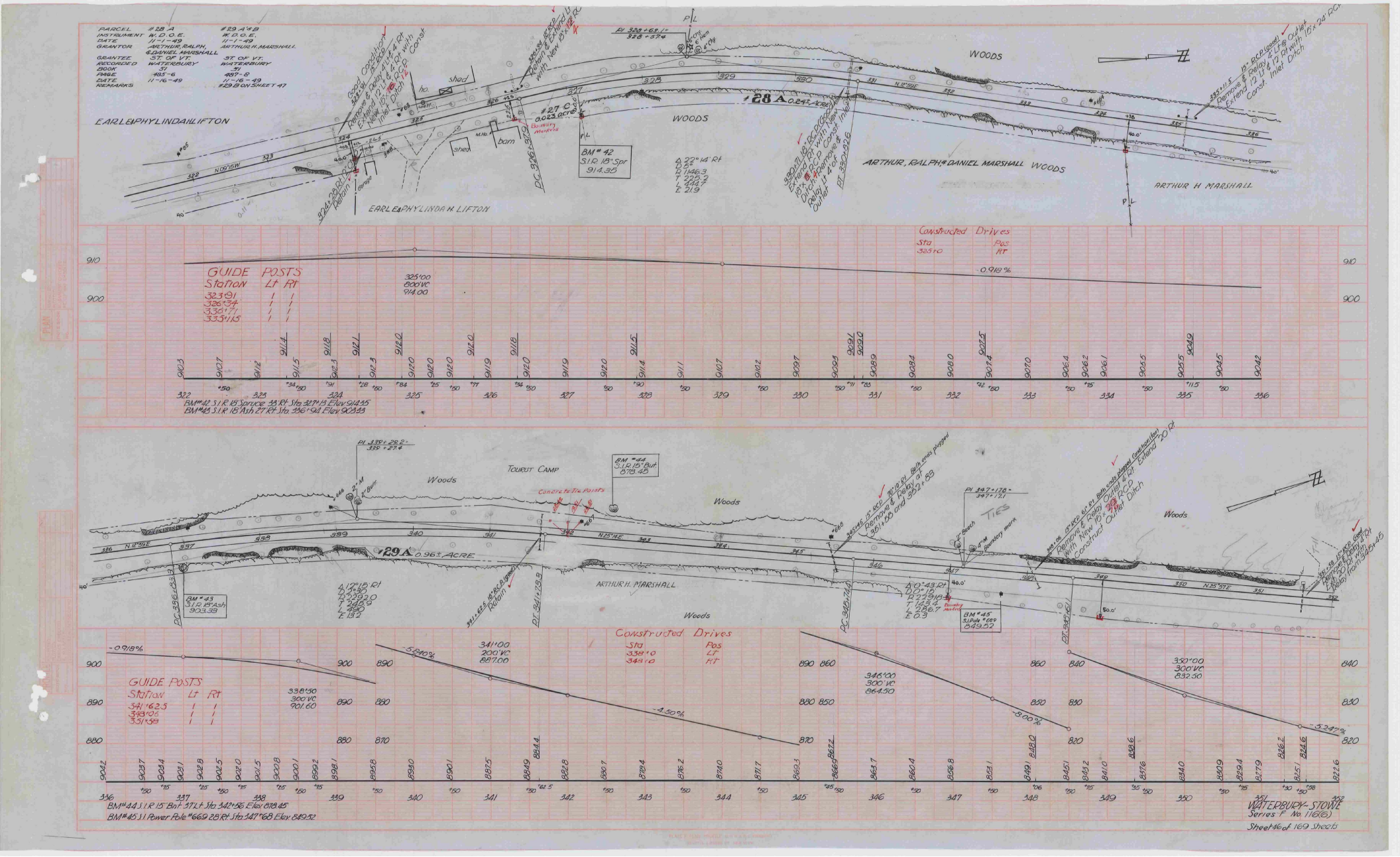

ROBERT J. & MAYDENE E. KELLETT
CLYDE M. NORCROSS & ZELTA NORCROSS
ROSCOE S. & HELEN V. GREEN
KEITH H. & COLLEEN R. GIBBS
Δ 17°12' Lt
D 2°30'
R 2292.0
T 346.6
L 688.0
E 26.1
Δ 11°35' Rt
D 2°30'
R 2292.0
T 232.5
L 463.3
E 11.8
Δ 5°24' Rt
D 0°30'
R 11459.2
T 540.2
L 1080.0
E 12.7
#19C 36" RCP (good) Remove, Dispose & Extend Lt with New 24" RCP
#19B 24" RCP (good) Remove, Dispose & Extend Lt with New 24" RCP
#19A 24" RCP (good) Remove, Dispose & Extend Lt with New 24" RCP
#20 18" RCP (good) Remove, Dispose & Extend Lt with New 15" RCP
#21 18" RCP (good) Remove, Dispose & Extend Lt with New 15" RCP
#21A 0.5 acre
#21B 0.2 acre
#21C 0.85 acre
#21D 0.37 acre
#22A 0.06± Acre
#190 0.13± Acre
Boundary Markers
BM #31 S.I.R. 12' Lt. Elev. 716.08
BM #33 S.I.R. 30' Lt. Elev. 727.18
BM #34 Spot on Conc. Wing Elev. 738.42
barn
ho.
PC 229+17.2
PT 236+60.2
PC 238+47.4
PC 253+82.2
PT 259+22.6
P.I. 240+79.9
240+78.2
P.I. 233+18.8
233+13.6
P.I. 259+22.6
259+21.8
GUIDE POSTS
Station Lt Rt
229+80-234+12.27 / /
233+21 / /
235+63 / /
239+50 / /
239+90 / /
233+10-239+36.31
Constructed Drives
Sta. Pos.
239+50 Rt.
242+50 Lt.
GUIDE POSTS
Station Lt Rt
243+08 4 4
247+93 4 4
252+92 1 1
259+17 2 2
Constructed Drives
Sta. Pos.
246+00 Rt.
246+78 Lt.
254+75 Lt.
256+00 Lt.
PARCEL #21 A,B,C,&D #22A
INSTRUMENT W.D.& E. W.D.& E.
DATE 12-9812-49 9-30-49
GRANTOR CLYDE M. & ZELTA NORCROSS ROSCOE S. & HELEN V. GREEN
GRANTEE STATE OF VT. STATE OF VT.
RECORDED WATERBURY WATERBURY
BOOK 33 51
PAGE 473-474 439
DATE 2-13-50 10-25-49
REMARKS
-0.256%
+1.80%
-2.006%
+0.943%
+4.378%
-3.149%
-0.185%
229+50 200' VC 717.60
235+75 450' VC 716.00
242+75 250' VC 728.60
246+00 200' VC 722.00
249+50 200' VC 725.30
255+625 400' VC 752.10
259+50 400' VC 740.00
EQ'N 17
BM #1 on Ridge 24 ft. Maple 23 Rt. Sta. 242+12 Elev. 729.63
BM #31 S.I.R. 12' Elm 34 Rt. Sta. 235+25 Elev. 716.88
BM #32 S.I.R. 24 Maple 23 Rt. Sta. 242+12 Elev. 729.63
BM #33 S.I.R. 30' Elm 30 Rt. Sta. 249+76 Elev. 727.18
BM #34 Spot on Conc. Wing 22 Rt. Sta. 259+19 Elev. 738.42
WATERBURY - STOWE
Serial F No. 11(6)
Sheet 43 of 171 Sheets

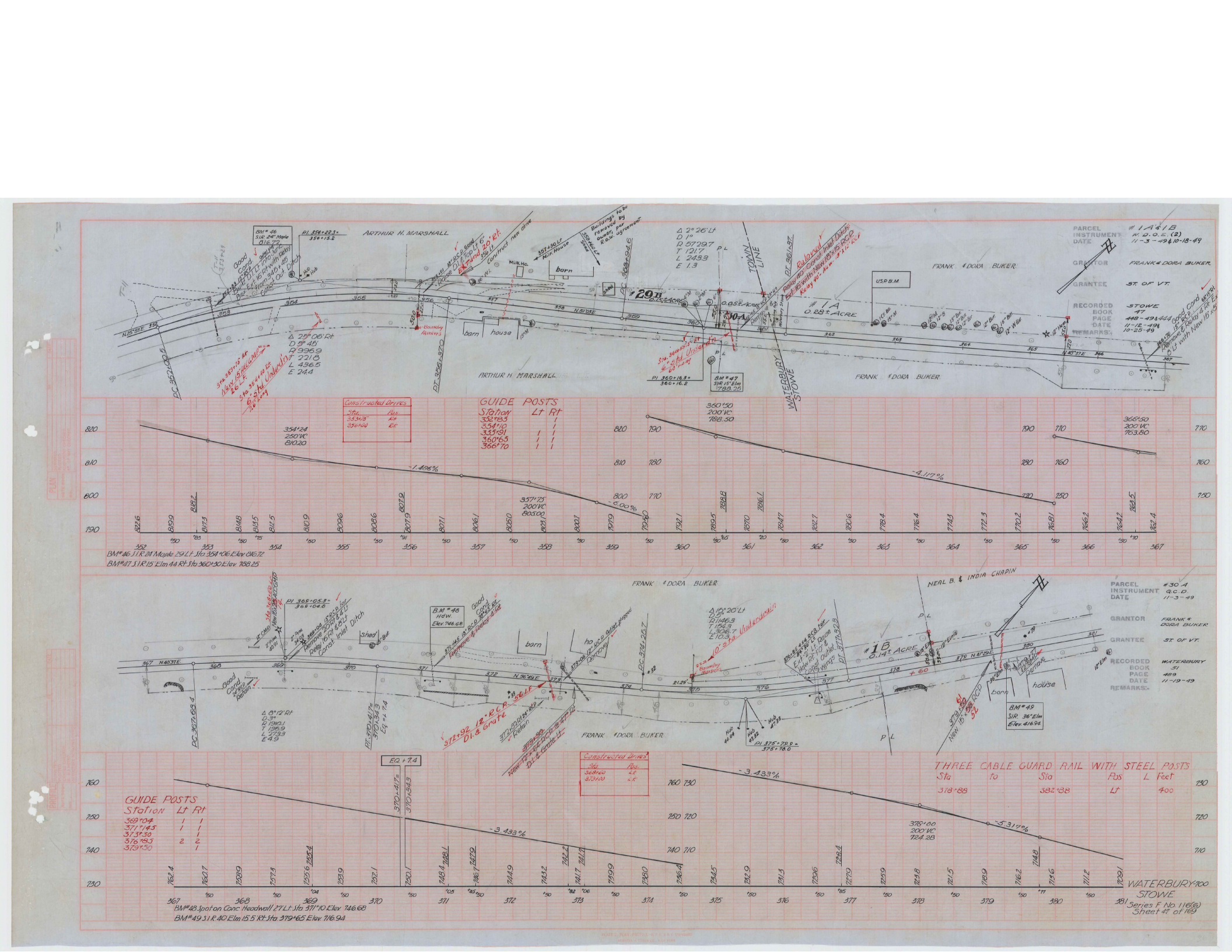


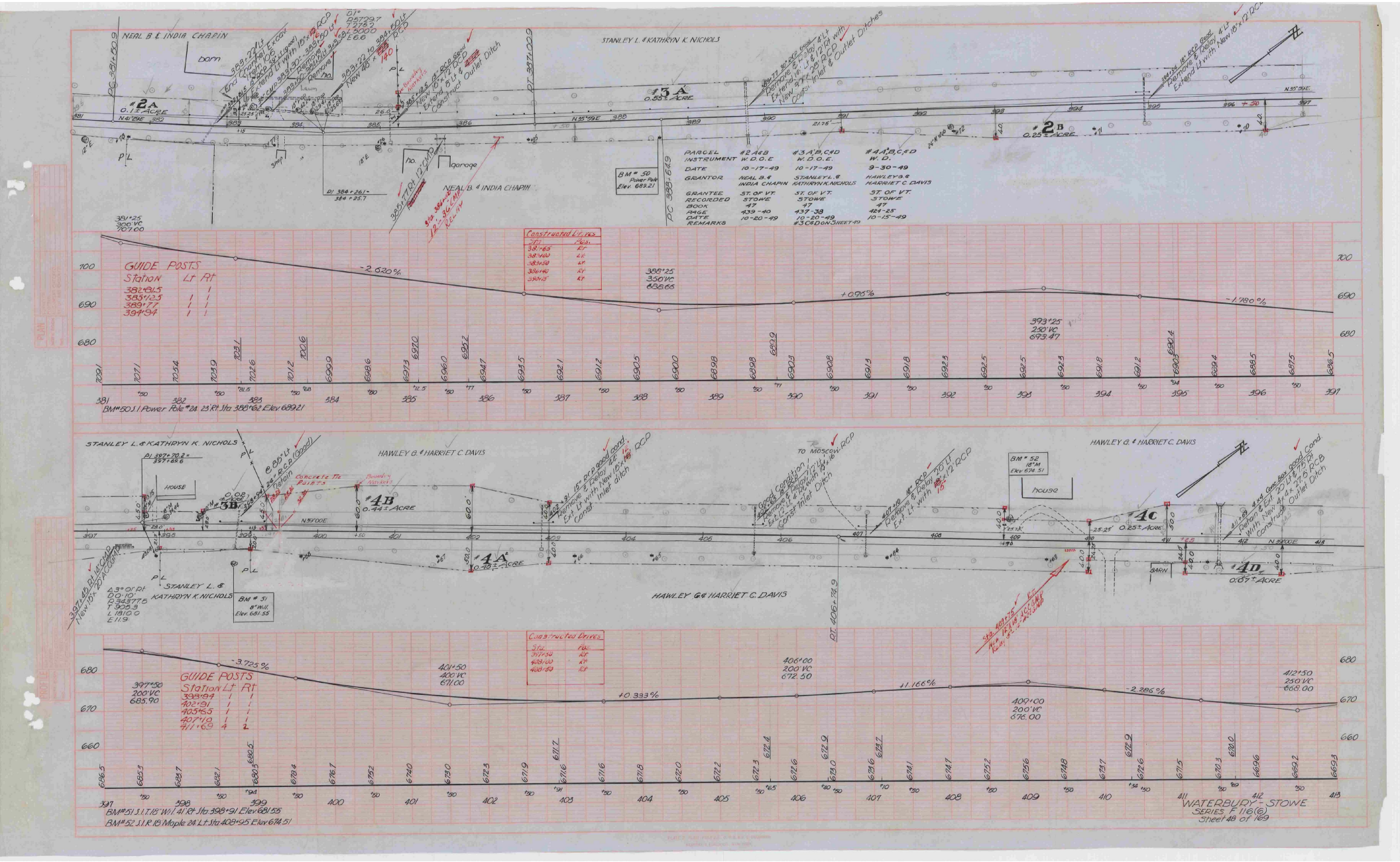
PARCEL #23 A&B #24, A', B, & C #25 A'
INSTRUMENT W.D.O.E. W.D.O.E. W.D.O.E.
DATE 11-3-49 10-18-49 10-18-49
GRANTOR WENDELL T. & BERNICE R. DOLLOFF HENRY B. & GRACE M. TITUS DR. ROBERT F. KENNEDY, BURTON D. GUILD, HARRY F. WALKER, TRUSTEES, WATERBURY STOWE FISH & GAME CLUB
GRANTEE ST. OF VT. ST. OF VT. 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
BM #35 S.I.R. 24" P. Elev. 761.94
Boundry Markers
#23B 0.63± ACRE
#23A 0.15± ACRE
WENDELL T. & BERNICE R. DOLLOFF
Hall
GUIDE POSTS
Station Lt Rt
269+17 4 4
271+77 1 1
BM #35 S.I.R. 24" Pine 21' Lt. Sta. 268+05 Elev. 761.94
276+43 18" RCP Retain & Extend Lt with New 18" x 20' RCP Const. Outlet Ditch
Δ 34°40' Lt D 4° R 1432.7 T 447.1 L 866.7 L 68.2
WENDELL T. & BERNICE R. DOLLOFF
WATERBURY STOWE FISH & GAME CLUB
Concrete Tie
Point
#24A 0.32± ACRE
BM #36 S.I.R. 2-15" E. Elev. 778.87
HENRY B. & GRACE M. TITUS
BM #37 S.I.P. #489 Elev. 804.55
HENRY B. & GRACE M. TITUS
Δ 6°05' Rt M. TITUS D 2° R 2864.9 T 152 L 304.2 E 4.0
#25A 0.2± ACRE
GUIDE POSTS
Station Lt Rt
276+43 1 1
288+19 1 1
290+91 1 1
Constructed Drives
Sta Pos
277+50 Rt
280+10 Lt
285+0 Rt
289+25 Lt
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
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

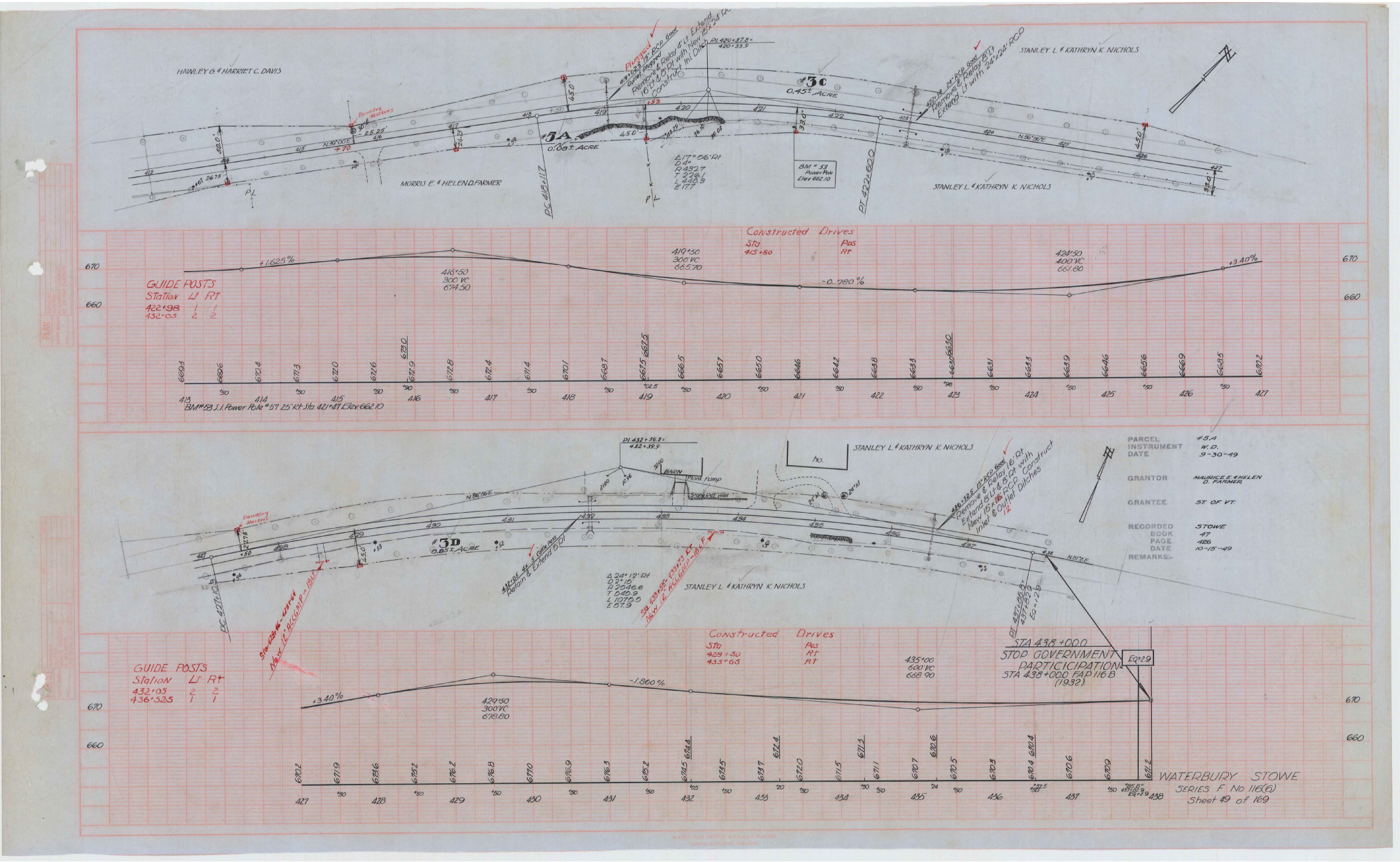


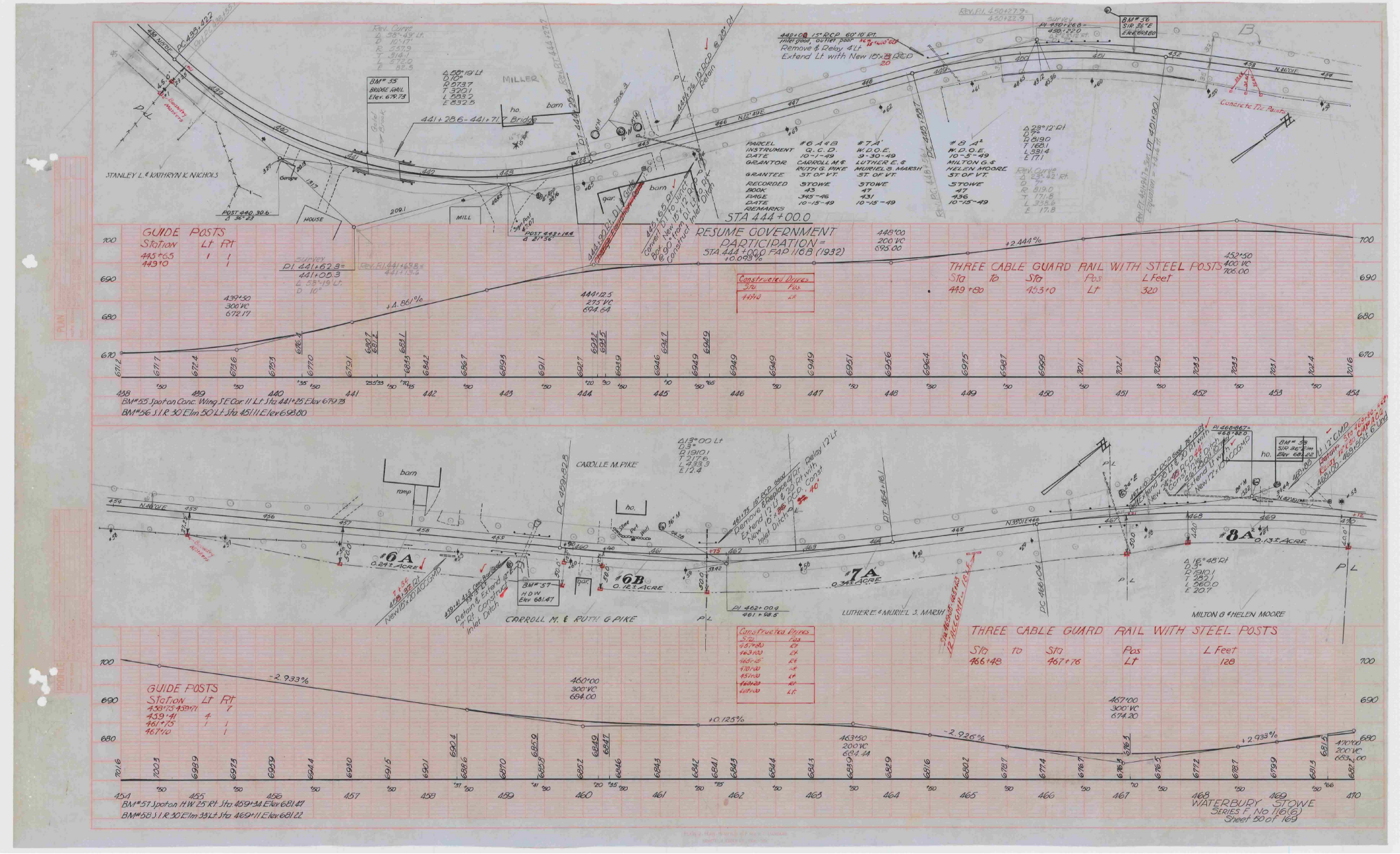
PARCEL #26 A&B' #27 A, B, & C
INSTRUMENT W.D.O.E. W.D.O.E.
DATE 10-17-49 3-10&27-50
GRANTOR MELVIN J.& BESSIE B. GIBBS EARLE E.& PHYLINDA H. LIFTON
GRANTEE ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY
BOOK 51 53
PAGE 466 47-48
DATE 10-20-49 4-11-50
REMARKS #21 C ON SHT. 46
WATERBURY-STOWE FISH & GAME CLUB
HENRY B. & GRACE M. TITUS
FREDRICK M. & IDA L. SWEETSER
#24B 0.31± ACRE
#24C 0.30± ACRE
#26A 0.1± ACRE
Boundary Markers
BM #38 S.I.R. 12" E Elev. 815.14
BM #39 S.I.R. 18" Elev. 860.83
Δ 22°48' Rt D 5° R 1146.3 T 231.1 L 456.0 E 23.1
GUIDE POSTS
Station Lt Rt
299+55 1 1
302+14 1 1
Constructed Drives
Sta. Pos.
299+25 Lt
303+90 Lt
EQ-32
BM #38 S.I.R. 12" Elm 75' Rt. Sta. 295+50 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
#26B
#27A 0.09 acre
#27B 0.11 acre
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 1410.1 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
GUIDE POSTS
Station Lt Rt
307+38 1
313+35 1 1
320+08 1 1
Constructed Drives
Sta. Pos.
307+00 Rt
308+00 Lt
318+00 Rt
EQ-82
WATERBURY-STOWE
BM #40 S.I.R. 40" Maple 20' Rt. Sta. 307+50 Elev. 899.01
BM #41 S.I.R. 18" Hem. 70' Rt. Sta. 318+00 Elev. 908.94
WATERBURY-STOWE
Series F No. 116(6)
Sheet 45 of 169 sheets

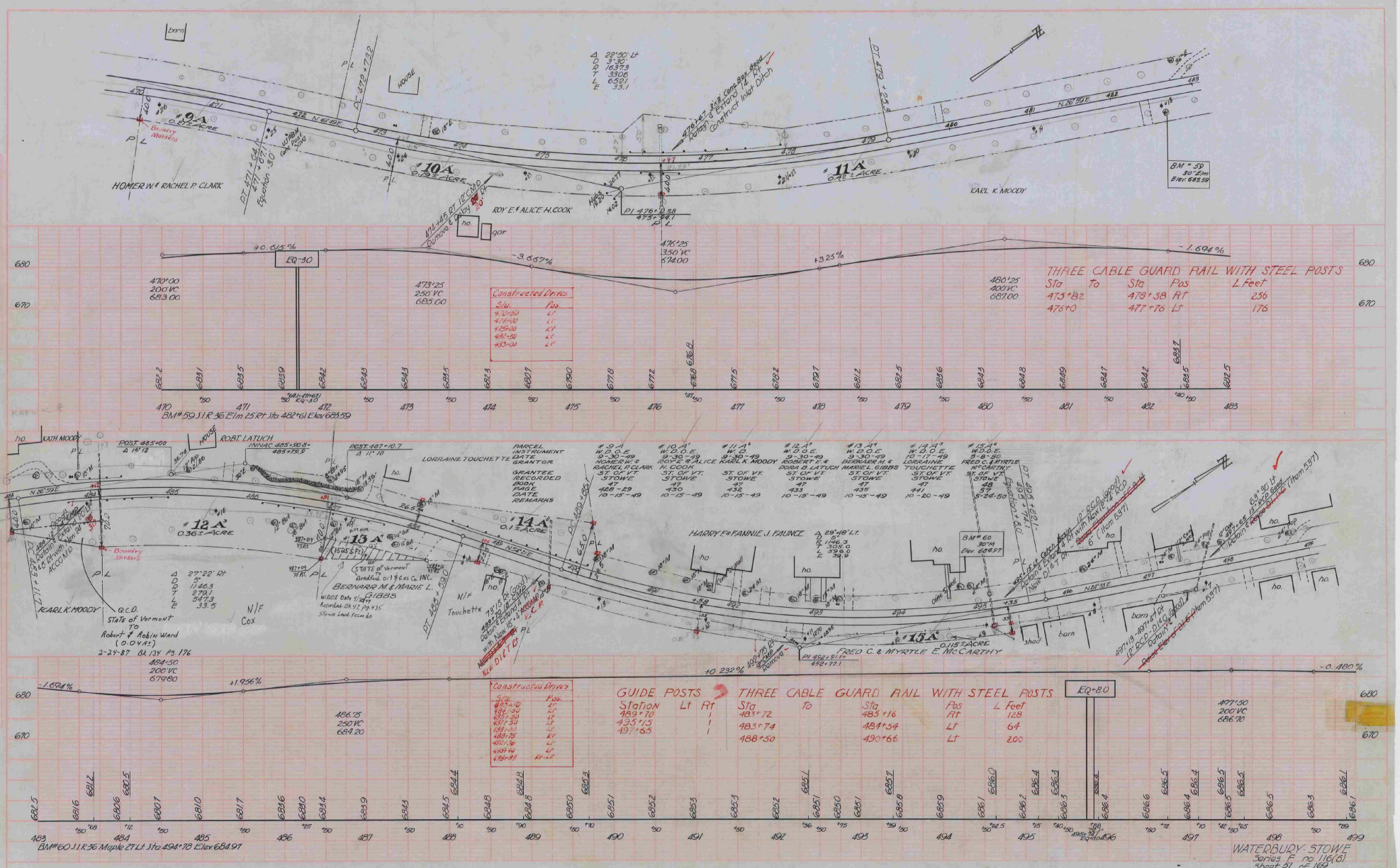

PARCEL #28 A #29 A & B
INSTRUMENT W.D.O.E. W.D.O.E.
DATE 11-1-49 11-1-49
GRANTOR ARTHUR, RALPH, & DANIEL MARSHALL ARTHUR H. MARSHALL
GRANTEE ST. OF VT. ST. OF VT.
RECORDED WATERBURY WATERBURY
BOOK 51 51
PAGE 485-6 487-8
DATE 11-16-49 11-16-49
REMARKS #29 B ON SHEET 47
EARLE & PHYLINDA H. LIFTON
WOODS
ARTHUR, RALPH, & DANIEL MARSHALL
ARTHUR H MARSHALL
BM # 42 S.I.R. 18" Spr 914.35
Δ 22° 14' Rt
D 5°
R 1146.3
T 225.2
L 444.7
E 21.9
#28 A 0.24± ACRE
#27 C 0.023 acre
Boundary Markers
Constructed Drives
Sta Pos
325+0 Rt
-0.918%
GUIDE POSTS
Station Lt Rt
323+91 1 1
326+34 1 1
330+71 1 1
335+115 1 1
325+00
800' VC
914.00
BM # 42 S.I.R. 18" Spruce 33' Rt Sta 327+13 Elev 914.35
BM # 43 S.I.R. 18" Ash 27' Rt Sta 336+94 Elev 903.33
TOURIST CAMP
Woods
BM # 44 S.I.R. 15" But. 878.45
Concrete Tie Points
#29 A 0.96± ACRE
ARTHUR H. MARSHALL
BM # 43 S.I.R. 18" Ash 903.33
Δ 12° 15' Rt
D 2° 30'
R 2292.0
T 245.9
L 490
E 13.2
Δ 0° 43' Rt
D 0° 15'
R 2291.8
T 143.4
L 286.7
E 0.3
BM # 45 S.I. Pole # 669 849.52
Boundary Markers
TIES
Constructed Drives
Sta Pos
338+0 Lt
348+0 Rt
-0.918%
-5.840%
-4.50%
-8.00%
-5.247%
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
BM # 44 S.I.R. 15" Bnt. 37' 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
TOWN LINE
WATERBURY
STOWE
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 440-441, 444
DATE 11-12-49
REMARKS: 10-25-49
#1A 0.88± ACRE
#1B 0.14± ACRE
#29B 0.05± ACRE
#30A
NEAL B. & INDIA CHAPIN
PARCEL #30A
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:
GUIDE POSTS
Station Lt Rt
352'83 1
354'16 1
335'91 1 1
360'65 1 1
366'70 1 1
Constructed Drives
Sta Pos
353'13 Lt
359'00 Lt
BM #46 SIR 24" Maple Elev 816.72
BM #47 SIR 15" Elm 44 Rt Sta 360+30 Elev 788.85
BM #48 Hdw. Elev 746.68
BM #49 SIR 36" Elm Elev 716.94
354'24 250' VC 610.20
357'75 200' VC 803.00
360'50 200' VC 788.50
365'50 200' VC 763.80
-1.496%
-6.00%
-4.117%
Pl 354+22.3 = 356+15.2
Pl 360+16.3 = 360+16.2
Pl 366+05.3 = 366+04.8
Pl 375+78.0 = 375+78.0
PC 352+00.6
PC 356+36.0
PC 360+43.8
PC 368+94.6
PC 371+25.7
PC 373+63.4
Δ 25°06' Rt D 45° R 99.9 T 22.18 L 43.65 E 2.44
Δ 2°26' Lt D 1° R 5729.7 T 121.7 L 243.3 E 1.3
Δ 13°20' Lt D 8° R 146.3 T 17.43 L 34.06 E 1.02
Δ 8°12' Rt D 3° R 190.1 T 13.95 L 27.23 E 0.49
Relocated 40' Const Inlet Ditch
Relay 40' Const Inlet Ditch
Const Inlet Ditch
Remove & Relay 4 Rip Rap
Remove & Reset Rip Rap
Remove Stone Wall & Fence
Remove Fence & Relay 4 Rip Rap
Remove Fence & Reset
Remove Fence
Remove Stone Wall & Reset
Remove Stone Wall
Remove Hedge & Reset
Remove Hedge
Remove Fence & Gate

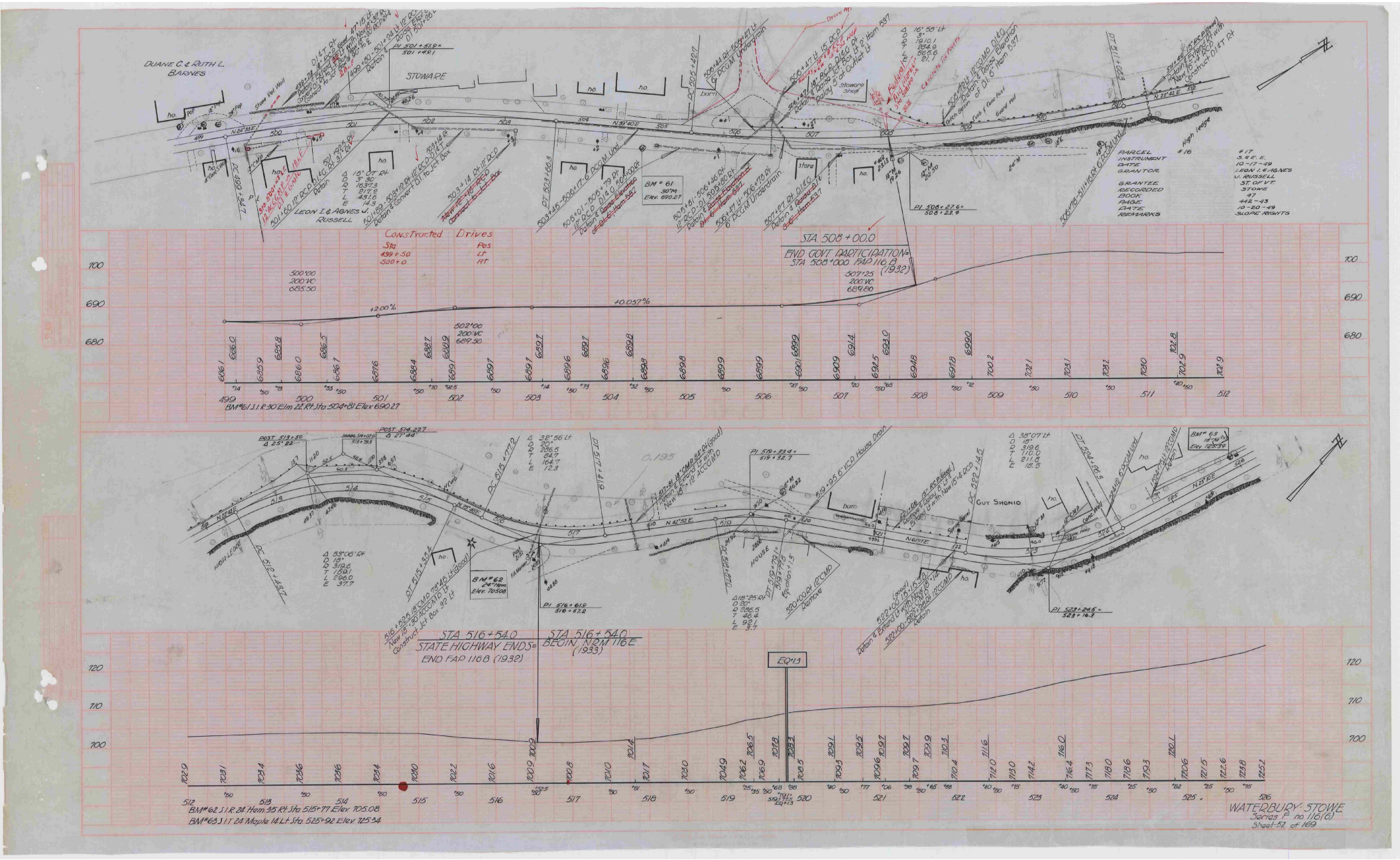

NEAL B. & INDIA CHAPIN
STANLEY L. & KATHRYN K. NICHOLS
#2A 0.1± ACRE
#3A 0.55± ACRE
#2B 0.25± ACRE
PARCEL #2 A&B #3 A,B,C&D #4 A,B,C&D
INSTRUMENT W.D.O.E W.D.O.E. W.D.
DATE 10-17-49 10-17-49 9-30-49
GRANTOR NEAL B. & INDIA CHAPIN STANLEY L. & KATHRYN K. NICHOLS HAWLEY G. & HARRIET C. DAVIS
GRANTEE ST. 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
BM # 50 Power Pole Elev. 689.21
GUIDE POSTS
Station Lt Rt
382+81.5 1 1
385+12.5 1 1
389+77 1 1
394+94 1 1
Constructed Drives
Sta. Pos.
381+65 Rt
383+00 Lt
383+50 Lt
386+40 Rt
390+15 Rt
-2.620%
+0.96%
-1.780%
BM#50 S.I. Power Pole #24 23' Rt Sta 388+62 Elev 689.21
STANLEY L. & KATHRYN K. NICHOLS
HAWLEY G. & HARRIET C. DAVIS
#3B
#4B 0.44± ACRE
#4A 0.48± ACRE
#4C 0.25± ACRE
#4D 0.67± ACRE
BM # 51 8" Wil. Elev. 681.55
BM # 52 18" M Elev 674.51
HAWLEY G. & HARRIET C. DAVIS
GUIDE POSTS
Station Lt Rt
398+94 1 1
402+91 1 1
405+65 1 1
407+10 1 1
411+69 4 2
Constructed Drives
Sta. Pos.
397+50 Rt
408+00 Rt
408+50 Rt
-3.725%
+0.333%
+1.166%
-2.286%
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

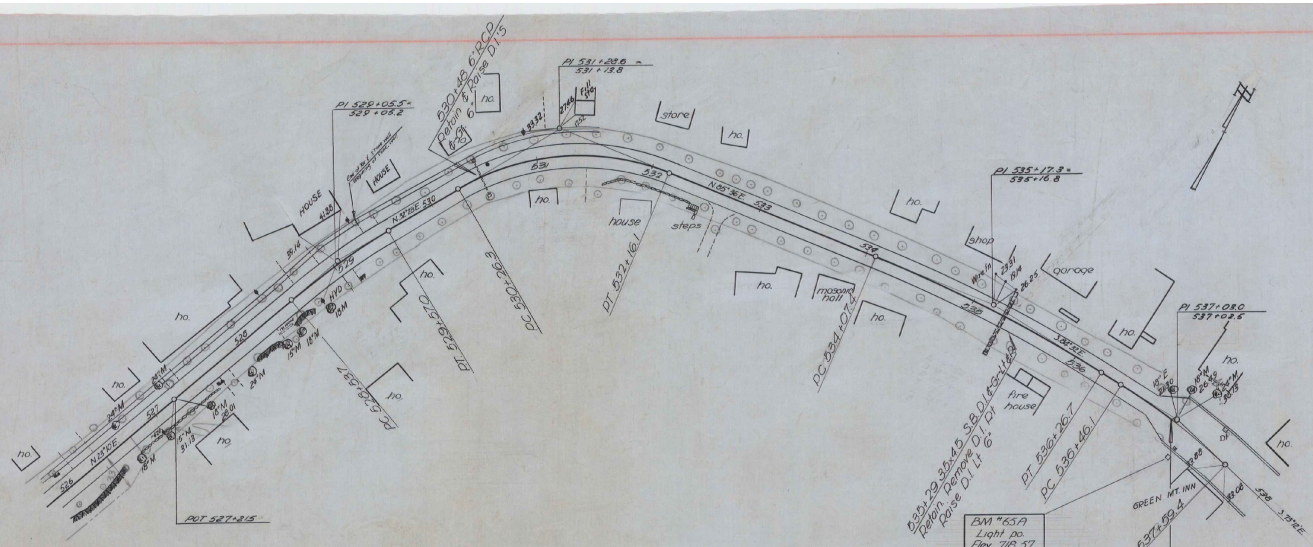

HAWLEY G. & HARRIET C. DAVIS
MORRIS E. & HELEN D. FARMER
STANLEY L. & KATHRYN K. NICHOLS
#5A
0.68± ACRE
#5B
0.45± ACRE
#5C
0.45± ACRE
#5D
0.85± ACRE
Boundary Markers
Flanged 24" RCP Good
Remove & Relay 6" I.T.
Extend & Relay 6" I.T.
Construct Inl. Ditch
PI 420+87.8 = 420+33.9
PC 419+11.7
PT 422+60.0
Δ 17° 56' Rt
D 4°
R 1432.7
T 226.1
L 448.5
E 11.7
BM = 53 Power Pole Elev 662.10
N 30° 00' E
N 78° 15' E
N 81° 15' E
GUIDE POSTS
Station Lt Rt
422+98 1 1
432+03 2 2
Constructed Drives
Sta Pas
415+80 Rt
+1.625%
-0.780%
+3.40%
416+50 300' VC 664.50
419+50 300' VC 665.70
428+50 400' VC 661.80
BM # 53 S.1 Power Pole # 57 25' Rt Sta 421+87 Elev 662.10
PARCEL #5A
INSTRUMENT W.D.
DATE 9-30-49
GRANTOR MAURICE E. & HELEN D. FARMER
GRANTEE ST. OF VT.
RECORDED STOWE
BOOK 47
PAGE 426
DATE 10-13-49
REMARKS:
PI 432+56.8 = 432+39.9
Δ 24° 12' Rt
D 2° 15'
R 2546.6
T 545.9
L 1075.5
E 67.9
Sta 428+00 ± 427.7 Lt
New 12" RCCP
Sta 433+95 ± 433.3 Rt
New 12" RCCP
Sta 438+00 ± 437.8 Lt
New 12" RCCP
Sta 438+00 ± 437.8 Rt
New 12" RCCP
Construct Inlet & Outlet Ditches
STA 438+00
STOP GOVERNMENT PARTICIPATION
STA 438+00.0 FAP 116 B (1932)
Eq=29
GUIDE POSTS
Station Lt Rt
432+05 2 2
436+32.5 1 1
Constructed Drives
Sta Pas
428+50 Rt
433+65 Rt
-1.860%
+3.40%
429+50 300' VC 678.60
435+00 600' VC 668.90
WATERBURY STOWE
SERIES F No 116(6)
Sheet 49 of 169


STANLEY L. & KATHRYN K. NICHOLS
MILLER
CARROLLE M. PIKE
CARROLL M. & RUTH G. PIKE
LUTHER E. & MURIEL S. MARSH
MILTON G. & HELEN MOORE
STA 444+00.0
RESUME GOVERNMENT PARTICIPATION = STA 444+000 FAP 116B (1932)
+0.099%
GUIDE POSTS
Station Lt Rt
443+65 1 1
449+10 1 1
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
449+80 453+10 Lt 320
THREE CABLE GUARD RAIL WITH STEEL POSTS
Sta to Sta Pos L Feet
466+48 467+76 Lt 128
GUIDE POSTS
Station Lt Rt
439+25 439+71 1
439+41 4
461+75 1 1
467+10 1
#6A 0.24± ACRE
#6B 0.18± ACRE
#7A 0.34± ACRE
#8A 0.13± ACRE
BM#55 Spot on Conc. Wing S.E. Cor. 11 Lt. Lt. Sta. 441+25 Elev. 679.73
BM#56 S.I.R. 30' E Im 50' Lt. Sta. 451+11 E Elev. 693.80
BM#57 Spot on H.W. 25' Rt. Sta. 459+34 Elev. 681.47
BM#58 S.I.R. 30' E Im 33' Lt. Sta. 469+11 E Elev. 681.22
WATERBURY - STOWE
SERIES F No. 116(6)
Sheet 50 of 169

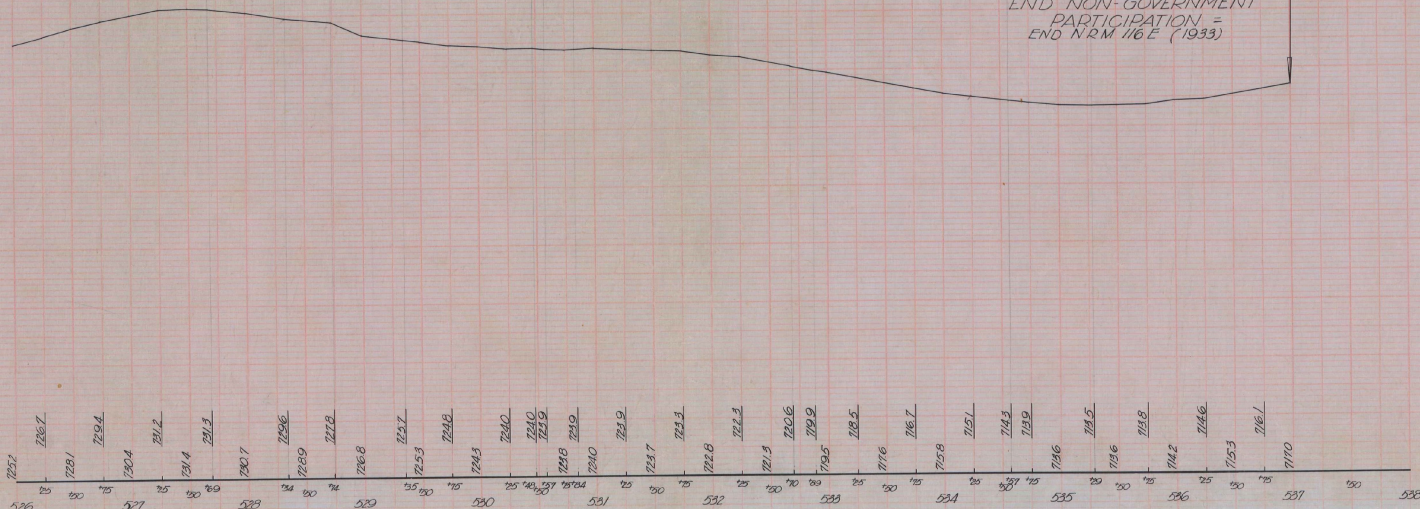


HOMER W. & RACHEL P. CLARK
ROY E. & ALICE H. COOK
KARL K. MOODY
HARRY F. & FANNIE J. FAUNCE
FRED C. & MYRTLE E. McCARTHY
LORRAINE TOUCHETTE
BERNARR M. & MARIE L. GIBBS
STATE of Vermont
Q.C.D. State of Vermont To Robert & Robin Ward (0.04 A±) 2-24-87 Bk 134 Pg. 176
BM#59 S.I.R. 36 Elm 25 Rt Sta. 482+61 Elev. 683.59
BM#60 S.I.R. 36 Maple 27 Lt. Sta. 494+78 Elev. 684.97
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
GUIDE POSTS
Station Lt Rt
489+70 1
495+15 1
497+65 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
WATERBURY-STOWE
Series F no 116(6)
Sheet 51 of 169


DUANE C. & RUTH L. BARNES
STOWARE
LEON I. & AGNES J. RUSSELL
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 #16
INSTRUMENT #17
DATE S.&E.E.
GRANTOR 10-17-49
GRANTEE LEON I. & AGNES J. RUSSELL
RECORDED ST. OF VT.
BOOK STOWE
PAGE 47
DATE 442-43
REMARKS 10-20-49 SLOPE RIGHTS
BM#61 S.I.R. 30 Elm 22 Rt. Sta. 504+81 Elev. 690.27
GUY SHONIO
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

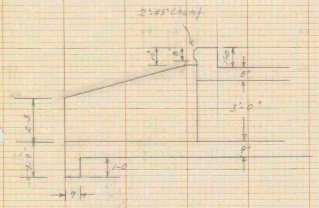


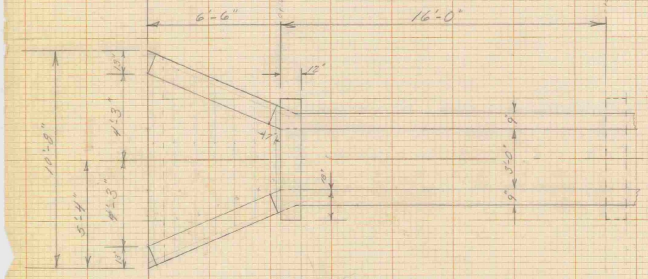
STA 537+00
END OF PROJECT
F 116(6)
END NON-GOVERNMENT PARTICIPATION =
END N.R.M. 116 E (1933)

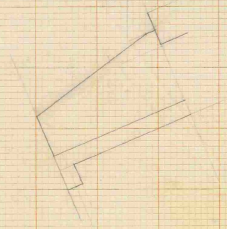


WATERBURY STOWE
528 SERIES F No 116(6)
Sheet 53 of 169

1" Mortar - 3 Courses







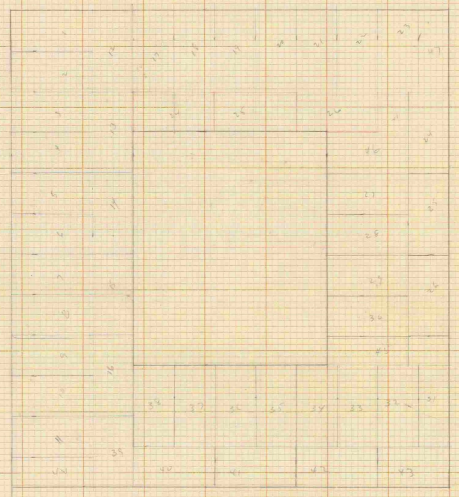
V_1	10-0
V_2	8-9
V_3	8-3
V_4	7-6
V_5	6-6
V_6	5-8
V_7	4-9

117+51

3x3 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

Waterbury Stone
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

PROFILE 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.
		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	

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

CARRIED FORWARD								—						
COLUMN FOOTINGS								164						172

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

PROFILE 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.
								GRAVEL BACKFILL						
		428+00				50						0		17
		+50				50						18		47
		429+00				50						33		57
		+50				50						29		53
		430+00				50						28		56
		+50				50						33		31
		431+00										0		
								TOTAL						261
								STONE FILL (GOV)						
		370+50								0				
						50				7				
		371+00				05				8				
		+05				45				2				
										11				
		+50				50				19				
										12				
		372+00				50				16				
		+50				32				5				
		+82								7				
										3				
										2				
										0				
								TOTAL		53				
								STONE FILL NON GOV.						
		16+00					0							
						50		49						
		+50				50	53	107						
		17+00				50	63	123						
		+50				50	70	131						
		18+00				50	72	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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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							
		+50				25	4	2						
		16				50	25	27						
		+50				50	79	96						
		17				50	156	218						
		+50				50	162	294						
		18				50	180	317						
		+50				50	0	167						
					Total			1121						
		92+25	RIGHT				0							
		+50	575.5			25	3	1						
	+0.125%	93	575.6			50	7	9						
		+25	575.6			50	7	13						
		+50	575.6			50	6	12						
		+77	575.7			50	14	19						
		94	575.7			50	8	20						
		+50	575.8			50	13	19						
		95	575.8			50	15	26						
		+47	575.9			50		36						
		+50	575.9			50	24	34						
		96	575.9			50	13	19						
		+50	576.0			50	8	22						
		97	576.6			50	16	30						
		+50	577.2			50	16	32						
		98	577.8			50	19	35						
		+50	578.4			25	19	16						
	+1.1786%	+75	578.7			25	16	32						
		99	578.9			50	54	69						
		+50	579.5			20	20	325						
					Sub-Total			444						

State of Vermont — Department of Highways

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

FORM ENG. 1A — EARTHWORK SHEET NO. 31 — 19 49

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

PROFILE 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						
		113	593.9			50	13	75						
		+50	594.4			50	68	112						
	-1.548%	114	595.0			14	53	32						
		+14	595.2			36	70	83						
		+50	595.6			17	55	26						
		+67	595.8				28							
				Total				550						
		121+24 Lt	617.50			26	0	6						
		+50	618.00			50	13	44						
	+1.800%	122	618.90			50	35	49						
		+50	619.80			50	18	26						
		123	620.70			50	10	46						
		+50	621.60			50	40	50						
		124	622.35			50	14	29						
		+50	623.10			23	17	22						
		+73	623.45			27	34	40						
	+1.500%	125	623.85			50	45	81	312					
		+50	624.60			50	43	49						
		126	625.35			50	10	28						
		+50	626.10			44	20	28						
		+94	626.76			6	14	4						
		127	626.85			50	18	33						
		+50	627.60			50	18	17						
		128	628.10				0							
				Total				552						
CARRIED FORWARD														
COLUMN FOOTINGS														

PROFILE 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+50 Rt					0							
						50		5						
		288					5							
						50		10						
		+50					6							
						50		13						
		289					8							
						33		15						
		+33					16							
						17		10						
		+50					17							
						50		26						
		290					11		79					
						50		21						
		+50					12							
						41		14						
		+91					6							
						9		1						
		291					0							
						50		6						
		+50					6							
						50		6						
		292					0							
					Total			127						
		378+00 Lt					0							
						50		15						
		+50	714.5				16							
	-5.00%					50		40						
		379	712.0				27							
						50		49						
		+50	709.5				26							
						27		24						
		+77	708.15				22							
						23		9						
		380	707.0				0		137					
						50		36						
	-3.0%	+50	704.5				39							
						50		65						
		381	703.0				31							
						50		65						
		+50	700.9				39							
						50		65						
	-4.15%	382	698.8				31							
						50		70						
		+50	696.8				45							
		+95	694.9			50		94						
		383	694.7				57							
						50		136						
		+22	693.78				90							
					Total			668						
CARRIED FORWARD							Gov		3103					
COLUMN FOOTINGS							Non Gov		1121					

GRAND TOTAL - 4224 CU YDS.

STATE OF VERMONT — DEPARTMENT OF HIGHWAYS

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

Form Eng. 1 A — EARTHWORK SHEET NO. 32 — 1949

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.	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			163
15	20	25		1050		1235	223	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

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. 39 — 1949

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.	EMBANKMENT CU. YDS.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL	SHAPING COURSE OF GRAVEL CU. YDS.
470	475	411		151	230				682
475	480	387		943		745	441		663
480	485	416		1025		814		304	635
485	490	424	29	1494		1369		1118	657
490	495	296		215	38			2487	479
495	500	357		4	352			2449	469
500	505	357		6	350			2097	501
505	510	348	59	61	275			1747	405
510	515	252	107		252			1472	234
515	520	321	8	1858		1909		1220	385
520	525	307			307			3129	339
525	530	330			330			2822	357
530	535	333			333			2492	346
535	540	135			135			2159	141
								2024	
TOTALS		49,796	3,010	43,192					50,683

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.
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	1304
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 Portic.	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~~ 44,669	2117	46,786
Total Planim. Fill	39,425	3,767	43,192
Factor	1.20	1.20	1.20
Fill incl. Factor	47,310	4520	51,830
Total Excav. (Earth and Rock)		2334	49,796
Borrow		2,186	2,054
Channel Excavation		1,121	
Net Borrow		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 1065
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 / VERTICAL CURVES / GRADES — Computed by — Checked by

DOZER / SHOVEL / BACKHOE

STATION TO STATION		SUMMARY OF BALANCES: 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.
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					572
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			48011 incl. Ledge				
		Net Total Earth Excav.			44339				
		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

REVISIONS

VOLUMES

VERTICAL CURVES

GRADES

Computed by

Checked by

PROFILE 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~~ Excav. AREA	~~Embankment~~ Excav. CU. YDS.	~~Sub-Base of Gravel~~ Excav. AREA	~~Sub-Base of Gravel~~ Excav. CU. YDS.
		46+0												
		+50				50								
		47+0				50	Rt.						Lt.	
		+50				50	7	14					6	13
		48+0				50	8	16					8	25
		+50				50	9	17					19	26
		49+0				50	9	17					9	23
		+50				50	9	17					14	
		50+0				50	9	19			18	25		
		+50				50	12	28			12	23		
		51+0				50	18	31			17	27		
		+50				50	16	22			11	26		
		52+0				50	8	18			13	22		
		+50				50	11	19			9	20		
		53+0				50	10	19			8	16		
		+50				50	10	19			9	16		
		54+0				50	10	19			10	18		
		+50				50	10	17			14	22		
		55+0				50	8	17			16	28		
		+50				50	10	19			19	32		
		56+0				50	11	19			8	25		
		+50				50	9	19			9	16		
		57+0				50	15	22			16	23		
		+50				50					27	40		
		58+0				50					24	47		
		+50				50					24	44		
		59+0				50					16	37		
		+50				50					24	37	Lt	
		60+0				50					10	31	9	28
		+50				50							21	36
		61+0				50							18	32
		+50				50							17	35
		62+0				50							21	28
													9	
		CARRIED FORWARD												
		COLUMN FOOTINGS						369				575		246

DOZER — SHOVEL BACKHOE

PROFILE 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~~ Excav. AREA	~~Embankment~~ Excav. CU. YDS.	~~Sub-Base of Gravel~~ Excav. AREA	~~Sub-Base of Gravel~~ Excav. CU. YDS.
		62+0											9	17
		+50				50							9	19
		63+0				50							11	27
		+50				50							18	33
		64+0				50							18	33
		+50				50					Lt		18	Rt
		65+0				50					23	31	11	18
		+50				50					53	70		18
		66+0				50					77	120	8	15
		+50				50					25	59	9	16
		67+0				50					25	24	9	17
		+50				50					25		8	16
		68+0				50					10		9	16
					No Excavation									
		92+0									Lt			
		+50				50					10	18		
		93+0				50					9	18		
		+50				50					10	24		
		94+0				50					16	21		
		+50				50					7	20		
		95+0				50					15	25		
		+50				50					12	17		
		96+0				50					6	18		
		+50				50					13	20		
		97+0				50					9	18		
		+50				50					10	25		
		98+0				50					17	30		
		+50				50					15		Lt	27
		99+0				50							14	24
		+50				50							12	11
		100+0											0	
		+50			No Excavation									
		101+0					Lt				Lt			Lt
		101+50	None on Right				3				6		3	
		CARRIED FORWARD												
		COLUMN FOOTINGS						0				558		307

Nothing on the Right

¼ Total — ½ Total — ¼ Total

Unit Costs

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 2 — 19 58

DOZER — SHOVEL — BACKHOE

REVISIONS / VOLUMES / VERTICAL CURVES / GRADES	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~~ Excav AREA	~~Embankment~~ Excav CU. YDS.	Sub-Base of Gravel Excav AREA	Sub-Base of Gravel Excav CU. YDS.
			101+50					3	Lt 7			6	Lt 16	3	Lt 7
			102+0				50	5	11			11	23	5	11
			+50				50	7	21			14	43	7	21
			103+0				50	16	25			32	50	16	25
			+50				50	11	17			22	34	11	17
			104+0				50	7	8			15	18	7	8
			+50				50	2	5			4	9	2	5
			105+0				50	3	4			6	7	3	4
			+50			Nothing on the Right	50	1				2		1	
			106+0												
			+50												
			107+0					No Excavation							
			+50												
			108+0												
			+50						Rt				Lt		
			109+0					0	12			0	13		
			+50				50	13	25			14	30		
			110+0				50	14	23			18	29		
			+50				50	11	25			13	20		
			111+0				50	16	18			9	26		
			+50				50	10	19			12	21		
			112+0				50	11	22			11	23		
			+50				50	13	20			14	33		
			113+0				50	9	16			22	44		
			+50				50	8	16			26	47		
			114+0				50	9	14			25	41		
			+50				50 Lt	6	11			19	30		
			115+0				50	6	12	Rt		13	31		
			+50				50	7	14			20	32		
			116+0				50	8	16			15	29		
			+50				50	9	16			16	37		
			117+0				50	8	16			24	34		
			+50					9				13			
			CARRIED FORWARD												
			COLUMN FOOTINGS						393				720		98

REVISIONS / VOLUMES / VERTICAL CURVES / GRADES	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~~ Excav AREA	~~Embankment~~ Excav CU. YDS.	Sub-Base of Gravel Excav AREA	Sub-Base of Gravel Excav CU. YDS.
			117+50			50 Lt		9	17			13	31		
			118+0			50		9	18			20	32		
			+50					10			Rt	15	27		Lt 15
			119+0				50					14	27	9	19
			+50				50					15	25	11	19
			120+0				50					12	94	9	
			+50				50				Lt & Rt	81	120		
			121+0				50	50 Lt	36			49	39		
			+50				50	8	18			24	42		
			122+0				50	11	18			21	41		
			+50				50	8	19			23	40		
			123+0				50	13	23			20	39		
			+50				50	12	19			22	39		
			124+0				50	9	17			20	42		
			+50				50	9	19			25	42		
			125+0				50	11	20			20	35		
			+50				50	11	22			18	33		
			126+0				50	13	22			18	44		
			+50				50	11	23		Rt	29	39		
			127+0				50	14	21			14	38		
			+50				50	9	16			27	42		
			128+0				50	8	16			18	41		
			+50				50	9	20			26	48		
			129+0				50	13	20			26	38		
			+50				50	9	20			15	32		
			130+0				50	13	25			20	37		
			+50				50	14	26			20	28		
			131+0				50	14	28			10	31		
			+50				50	16	29			23	44		
			132+0				50	15				25	40		
			+50				50					32	56		
			133+0				50				Lt & Rt	29	65		
			+50				50					41			
			CARRIED FORWARD												
			COLUMN FOOTINGS						512				1371		56

Unit Costs DOZER

State of Vermont Department of Highways

Waterbury - Stowe Project No. 116(6)

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

DOZER SHOVEL BACKHOE

REVISIONS By

VOLUMES Computed by Checked by

VERTICAL CURVES Computed by Checked by

GRADES Computed by Checked by

PROFILE							Total Excavation Earth and Rock		Rock Excavation		Embankment EXCAV		Sub-Base of Gravel EXCAV	
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.	AREA	CU. YDS.
		133+50									41			
		134+0								Lt		73		
		+50								& Rt	38			
		135+0									25	69		4
		+50								Rt		44	11	23
		136+0									22		14	
		+50									25	44		27
		137+0										75	15	
		+50									41			
		138+0										74		
		+50									39			
		139+0										70		
		+50									37			
		140+0										69		
		+50									38			
		141+0										66		
		+50									38			
		142+0										57		
		+50									29			
		143+0										51		
		+50								Lt & Rt.	26			
		144+0										46		
		+50									24			
		145+0										47		
		+50									27			
		146+0										66		
		+50									44			
		147+0										120		
		+50									86			
		148+0										155		
		+50									81			
		149+0										115		
		+50									43			
												73		
											36			
												70		
											40			
												34		
											15			
												32		
											20			
												33		
											16			
												30		
											16			
												34		
											21			
												38		
											20			
												31		
											14			
										Rt		22		
											10			
												18		
											9			
												17		
											9			
												22		
											15			
												24		
											11			
												22		
											13			
CARRIED FORWARD														
COLUMN FOOTINGS								274				1741		50

DOZER SHOVEL BACKHOE

PROFILE							Total Excavation Earth and Rock		Rock Excavation		Embankment		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.	AREA	CU. YDS.
		149+50					11	Lt 19			15	Rt 22		
		150+0					9				11			
		+50					10	18			15	24		
		151+0					15	23			13	26		
		+50					10	23			10	21		
		152+0					11	19			14	22		
		+50					10	19			12	24		
		153+0					11	19			11	21		
		+50					11	20			12	21		
		154+0					10	19			11	21		
		+50					10	19			10	19		
		155+0					13	21				Rt	11	Rt 19
		+50					12	23					10	19
		156+0					9	19					6	15
		+50					10	18				Rt.	10	15
		157+0					10	19			31	38		
		+50					14	22			48	73		
		158+0					15	27			18	61		
		+50					20	32			10	26		
		159+0					19	36						Rt 19
		+50					15	31					10	22
		160+0					11	24					14	21
		+50					15	24					9	17
		161+0					14	27					9	18
		+50					20	31					10	19
		162+0					10	28					10	19
		+50					10	19					10	19
		163+0					15	23					10	19
		+50					13	26					13	21
		164+0					10	21				Rt	15	25
		+50					12	20			15	28		
		165+0					7	18			16	29		
		+50					22	27			15	29		
CARRIED FORWARD														
COLUMN FOOTINGS								734				505		287

Unit Costs

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 4 — 19 52

DOZER — SHOVEL BACKHOE

PROFILE							Total Excavation Earth and Rock		Rock Excavation		Embankment		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.	AREA	CU. YDS.
		165+50					22				15			
							12	31			15	28		
		166+0					12				15			
								22				27		
		+50					12				14		41	
		167+0									15	27	13	23
		+50									15	28	10	21
		168+0									15	25	10	20
		+50									12	23	12	20
		169+0									13	94	10	20
							4t.				34		12	
		+50						22				47		
		170+0					12	19			17	30		
							9				15 R 4 Lt			
		+50									27	47		
		171+0									32	55		
		+50									23	51		
		172+0									22	42		
		+50									31	49		
		173+0									21	48		
												37		
		+50									19			
		174+0									19	35		
		+50									17	33		
		175+0									21	35		
		+50							137.23 sq. ft.		32	49		
		176+0							5 day haul		33	62		
		+50									31	61		
		177+0									12	46		
		+50											19	35
		178+0											19	35
		+50											19	39
		179+0					4t.				4t.		23	
							10	19			10	19		
		+50					10	19			9	18		
		180+0					10	20			9	20		
							12				13			
		+50					12	22			9	20		
		181+0					13	23			0	8	4t	
		+50					12	23					8	9
		CARRIED FORWARD												
		COLUMN FOOTINGS						220				1014		220

REVISIONS — By

VOLUMES — Computed by — Checked by

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DOZER // SHOVEL BACKHOE

PROFILE							Total Excavation Earth and Rock		Rock Excavation		Embankment Cut		Sub-Base of Gravel C.I.P.	
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.	AREA	CU. YDS.
								22						17
		182+0					12						10	
								22						19
		+50					12						10	
		183+0					13	23						19
								21					10	
		+50					10							17
		184+0						17					8	
							8							13
		+50						13					6	
		185+0					6				4t			29
								13					25	
		+50					8				19	41		
		186+0						17						
							8				25	41		
		+50					10	19						
		187+0									27	48		
							10	17						41
		+50					8						0	
		188+0						19						
							12				Rt		0	
		+50										22		
		189+0									12		0	
												25		7
		+50									15		8	
		190+0										24		15
											11		8	
		+50										19		15
		191+0									10		8	
												19		14
		+50									10		7	
		192+0										19		13
											10		7	
		+50										19		13
		193+0									11		7	
												18		13
		+50									8		7	
		194+0										15		13
											8		7	
		+50										14		14
		195+0									7		8	
												17		15
		+50									12		8	R 4 Lt
		196+0											15	32
													13	26
		+50												29
		197+0											18	
														33
		+50											18	
		198+0												37
													22	
		+50												40
		199+0											21	
														42
		+50											24	
		200+0												44
													23	
		+50												44
		201+0											24	
														45
		+50											25	
		202+0												45
													24	
		CARRIED FORWARD												
		COLUMN FOOTINGS						203				341		663

REVISIONS — By

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GRADES — Computed by — Checked by

State of Vermont — Department of Highways

Waterbury – Skeas — Project No. [illegible]

FORM ENG. 1A — EARTHWORK SHEET NO. 5 — 1950

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.	AREA	CU. YDS.
		198+0											Lt	Rt
		+50				50							24	41
		199+0				50							20	36
		+50				50							19	32
		200+0				50							16	33
		+50				50							20	37
		201+0				50							20	36
		+50				50							19	38
		202+0				50							22	44
		+50				50							25	51
		203+0				50							30	48
		+50				50							22	Rt
		204+0				50							19	25
		+50				50							8	57
		205+0				50							17	25
		+50				50							54	105
		206+0				50	Lt						10	17
		+50				50	9						59	164
		207+0				50	9	17					8	16
		+50				50	6	14					118	183
		208+0				50	8	13					9	17
		+50				50	9	16					80	144
		209+0				50	8	16					9	16
		+50				50	9	19					75	102
		210+0				50	12	21					8	
		+50				50	11	18					35	54
		211+0				50	8	15					23	31
		+50				50	8	15					10	46
		212+0				50	8	14					40	69
		+50				50	7	14					35	65
		213+0				50	8	19					35	89
		+50				50	12	22					61	107
		214+0				50	12						55	102
													55	76
													27	50
													27	45
													22	53
													35	68
													38	60
													27	53
													30	
		CARRIED FORWARD												
		COLUMN FOOTINGS						249				1742		512

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.	AREA	CU. YDS.
								Lt				Rt.		
		214+0					12				30			
		+50				50		20				54		
		215+0				50	10	19			28	49		
		+50				50	10	19			25	37		
		216+0				50	11	20			15	26		
		+50				50	11	19			13	19		
		217+0				50	10	19			8	16		
		+50				50	10	19			9	19		
		218+0				50	10	17			11	19		
		+50				50	8	18			9	16		
		219+0				50	11	19			8	28		
		+50				50	10	19			22	57		
		220+0				50	10	21			40	81		
		+50				50	13	25			48	113		
		221+0				50	14	31			74	133		
		+50				50	19	32			70	116		
		222+0				50	16	28			55	68		
		+50				50	14	25			18	26		
		223+0				50	13	21			10	23		
		+50				50	10	22			15	26		
		224+0				50	14	22			13	26		
		+50				50	10	20			15	65		
		225+0				50	12	20			55	88		
		+50				50	10	21			40	69		
		226+0				50	13	22			35	46		
		+50				50	11	20			15	24		
		227+0				50	11	22			11			Rt
		+50				50	13	22					11	20
		228+0				50	11	22					9	19
		+50				50	13	25					10	18
		229+0				50	14	26					9	18
		+50				50	14	26				Rt	10	18
		230+0				50	15	26			15	23		
							13				11	24		
		CARRIED FORWARD												
		COLUMN FOOTINGS						707				1291		93

REVISIONS — By

VOLUMES — Computed by — Checked by

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GRADES — Computed by — Checked by

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116(6)

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

DOZER — SHOVEL BACKHOE

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

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 Lt.	CU. YDS.	AREA	CU. YDS.	AREA Rt.	CU. YDS.	AREA	CU. YDS.
		23040					13				11			
		+50					10	21			30	38		
		23140					12	20			62	85		
		+50					15	25			100	150		
		23240					13	26			62	150		
		+50					12	23			25	81		
		23340					13	23			18	40		
		+50					11	22			21	36		
		23440					11	20			25	43		
		+50					15	24			23	44		
		23540					15	28			18	38		
		+50					16	29			13	29		
		23640					15	29			19	30		
		+50					15	28			20	36		
		23740					13	26			25	42		
		+50					11	22			31	52		
		23840					11	20			39	65		
		+50					15	24			15	30	Rt.	
		23940					13	26					14	27
		+50					13	24					14	26
		24040					8	19					8	20
		+50					13	19					10	17
		24140					15	26					9	18
		+50					14	27					10	18
		24240					15	27					15	23
		+50					15	28					20	32
		24340					15	28					12	30
		+50					12	25					9	19
		24440					11	21					15	22
		+50					12	21					11	24
		24540					13	23			Rt.			
		+50					11	22			9	19		
		24640					12	21			10	18		
											12	20		
		CARRIED FORWARD												
		COLUMN FOOTINGS						767				1066		276

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. Lt.	AREA	CU. YDS.	AREA Rt.	CU. YDS.	AREA	CU. YDS.
		24640												
							12				12			
		+50					10	20			20	30		
		24740					10	19			40	56		
		+50					10	19			10	46		
		24840					12	20			14	22		
		+50					10	20			9	21		
		24940					11	19			23	18		
		+50									34	Rt. Lt. 53		
		25040									33	62		
		+50									39	67		
		25140									53	85		
		+50									66	110		
		25240									56	113		
		+50									33	92		
		25340									22	51		
		+50									24	43		
		25440									27	47		
		+50									57	78		
		25540											Rt.	Rt. Lt.
		+50											19	37
		25640											23	39
		+50											28	47
		25740											27	51
		+50					10	Lt. 22					20	44 Rt.
		25840					14	24					14	22
		+50					27	Rt. Lt. 48						26
		25940					25	46					14	
		+50					25	51						
		26040					30	64						
		+50					39	68						
		26140					34	56						
		+50					27	Lt. 27			Rt.			
		26240					15	28			15	28		
							15				12	25		
		CARRIED FORWARD												
		COLUMN FOOTINGS						551				1047		266

State of Vermont — Department of Highways

Waterbury - Stowe — Project No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 7 — 1950

DOZER — SHOVEL — BACKHOE

REVISIONS

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VOLUMES

Computed by — Checked by

VERTICAL CURVES

Computed by — Checked by

GRADES

Computed by — Checked by

PROFILE 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 Earth and Rock (Cut) CU. YDS. Lt.	Rock Excavation AREA	Rock Excavation CU. YDS.	Embankment (Cut) AREA Rt.	Embankment (Cut) CU. YDS.	Sub-Base of Gravel AREA	Sub-Base of Gravel CU. YDS.
		26210					16				12			
								28				34		
		250					14				25			
								37				60		
		26310					15				40			
								22				74		
		250					9				40			
								17				77		
		26410					9				43			
								18				95		
		250					10				60			
								18				131		
		26510					9				82			
								25				154		
		250					18				84			
								31				147		
		26610					16				75	Rt+Lt		
												180		
		250									103			
												185		
		26710									97			
												134		
		250									48			
												61		
		26810									18	Lt	Rt.	
												17		17
		250									9		9	
												23		19
		26910									16		11	
												25		22
		250									11		13	
												21		41
		27010									12		31	
												20		58
		250									10		32	
												21		43
		27110									13		14	
								22						22
		250					11						10	
								19						19
		27210					9						11	
								17						19
		250					9						9	
								13						18
		27310					5						10	
								16						21
		250					12						13	
								19						22
		27410					8						11	
								15						20
		250					8						11	
								16						19
		27510					9						10	
								19						20
		250					12	Rt+Lt					12	
								44						
		27610					23							
								42						
		250					22							
								39						
		27710					20							
								51						
		250					35							
								61						
		27810					31							
CARRIED FORWARD														
COLUMN FOOTINGS								589				1459		380

DOZER — SHOVEL — BACKHOE

PROFILE 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 Earth and Rock (Cut) CU. YDS. Rt+Lt	Rock Excavation AREA	Rock Excavation CU. YDS.	Embankment (Cut) AREA	Embankment (Cut) CU. YDS.	Sub-Base of Gravel AREA	Sub-Base of Gravel CU. YDS.
		27810					31							
								54						
		250					27							
								54						
		27910					31							
								44						
		250					16							
								39						
		28010					26	Rt				Lt		
								22				36		
		250					11				26		Rt	
												41		24
		28110									18		15	
												32		27
		250									17		14	
												127		22
		28210									120		10	
												212		19
		250									109		10	
												215		19
		28310									123		11	
												219		18
		250									113		8	
												294		15
		28410									204		8	
												281		16
		250									100		9	
												171		17
		28510									85		9	
												129		18
		250									54		10	
												106		18
		28610									60		9	
												103		16
		250									51		8	
												95		19
		28710					65	Rt+Lt			52		13	
								80						
		250					21							
								45						
		28810					28							
								53						
		250					29							
								57						
		28910					33							
								67						
		250					39							
								71						
		29010					38							
								64						
		250					31							
								49						
		29110					22							
								44						
		250					26							
								44						
		29210					21							
								43						
		250					24							
								48						
		29310					28							
								50						
		250					26							
								48						
		29410					26							
CARRIED FORWARD														
COLUMN FOOTINGS								976				2061		248

State of Vermont — Department of Highways

Waterbury - Shaw — Project No. 1166(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 8 — 1950

DOZER / SHOVEL BACKHOE

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

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.	AREA	CU. YDS.
		29+40					26 Rt							
		+50					32	53						
		29+40										Lt 42	Rt	17
		+50									30	58	9	17
		29+40									33	66	9	20
		+50									38	84	13	21
		29+70									53	93	10	19
		+50									47	69	10	19
		29+80									27	42	10	19
		+50						Lt 37			18		10	19
		29+90					22 Rt&Lt	57					10	
		+50					30	50						
		30+00					24 Rt	21				Lt 13		
		+50					11	19			7	16		
		30+10					10	18			10	18		
		+50					9	19			9	17		
		30+20					11	20			9	27		
		+50					11				20 Rt&Lt	54		
		30+30						Lt 23			27	48		
		+50					13	19			25 Rt	30		
		30+40					7	17			20	33		
		+50					9	21			16	28		
		30+50					14	19			14	41		
		+50					6	15			30	65		
		30+60					10	19			40	70		
		+50					10	17			36	68		
		30+70					8	15			37		Rt 13	46
		+50					8				33 Rt&Lt	72	25	35
		30+80									45	69		
		+50									30	58		
		30+90									33	66		
		+50									38	64		
		31+00									31			
CARRIED FORWARD														
COLUMN FOOTINGS								459				1311		232

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.	AREA	CU. YDS.
		31+00									31	51		
		+50									24	44		
		31+10									23	46		
		+50									27	63		
		31+20					17 Lt	29			41 Rt	39		
		+50					14	23			18	31		
		31+30					11	18			15	23		
		+50					8	13			10	21		
		31+40					6	14			13	19		
		+50					9	18			8	13		
		31+50					10	18			6	13		
		+50					9	16			8	15		
		31+60					8	16			8	15		
		+50					9	17			8	11		
		31+70					9	17			4	11		
		+50					9	18			8	15		
		31+80					10	18			8	15		
		+50					9	17			8	13		
		31+90					9	19			6	12		
		+50					12	21			7	14		
		32+00					11	18			8	13		
		+50					8	16			6	10		
		32+10					9	20			5	10		
		+50					13	20			6	40		
		32+20					9	19			37	66		
		+50					11	20			34	74		
		32+30					11	18			46	52		
		+50					8	15			10	21		
		32+40					8	19			13	24		
		+50					13				13			Lt 18
		32+50									15	26	6	11
		+50									15	28	6	12
		32+60									10	23	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

PROFILE 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 Rt.	Embankment Cut CU. YDS.	Sub-Base of Gravel AREA	Sub-Base of Gravel CU. YDS. Lt
		32640									10		7	
		+50									10	19	9	15
		32740									53	58	7	15
		+50									67	111	8	14
		32840									25	85	8	15
		+50									9	31	6	13
		32940									8	16	8	13
		+50									8	15	8	15
		33040									13	19	6	13
		+50									12	23	6	11
		33140									24	33	8	13
		+50									8	30	5	12
		33240									21	27	6	10
		+50									38	55	6	11
		33340									22	56	6	11
		+50									15	34	6	11
		33440						Lt			12	25	6	11
		+50			7			12			11	21		
		33540			9			15			11	20		
		+50			10			18			11	20		
		33640			7			16			20	22		
		+50									33	Rt Lt 49		
		33740									23	52		
		+50									53	70		
		33840									32	79		
		+50									65	90		
		33940									37	94		
		+50									25	57		
		34040									26	47		
		+50									24	46		
		34140									24	44		
		+50									22	43		
		34240									36	54		
CARRIED FORWARD														
COLUMN FOOTINGS								61				1445		203

PROFILE 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 Rt.	Embankment Cut CU. YDS. Lt	Sub-Base of Gravel AREA	Sub-Base of Gravel CU. YDS.
		34240									36			
		+50									47	77		
		34340									40	81		
		+50									45	79		
		34440									37	76		
		+50									38	69		
		34540									35	68		
		+50									47	76		
		34640									22	64		
		+50					Rt				35	53 Lt		
		34740					15	23				44		
		+50					10	23			22	38		
		34840					11	19			19	31		
		+50					8	18			14	60		
		34940					10	17			51	94		
		+50					10	19			50	58		
		35040					9	18			13	19		
		+50					8	16			8	23		
		35140					9	16			17	43		
		+50					9	17			29	32		
		35240					7	15			6			Lt 11
		+50					11	17					6	11
		35340					12	21					6	12
		+50					9	19					7	11
		35440					10	18					5	12
		+50					7	16					8	14
		35540					10	16					7	13
		+50					11	19					7	14
		35640					9	19				Lt	8	58
		+50									175	213		
		35740									117	270		
		+50									135	233		
		35840									120	236		
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

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.	AREA	CU. YDS.
		358+40									120	306		
		+50									210	306		
		359+40									120	139		
		+50									63	Rt. 100		
		360+40									45	75		
		+50									36	54		
		361+40									22	40		
		+50									21	39		
		362+40									21	43		
		+50									25	55		
		363+40									34	108		
		+50									83	100		
		364+40									25	43		
		+50									21	40		
		365+40									22	45		
		+50									27	44		
		366+40									21	38		
		+50									20	38		
		367+40									21	32		
		+50									14	31		
		368+40									20	31		
		+50									13	29		
		369+40									18	33		
		+50									18	34		
		370+40									19	32		
		+50									16	30		
		371+40									16	30		
		+50									16	33		
		372+40									20	37		
		+50									20	41		
		373+40									24	Rt. 22	10	Lt. 20
		+50									12	19	10	19
		374+40									8		10	
		+50									8	19	12	20
		375+40									12	20	12	28
		+50									28	Rt. 44	18	
		376+40										45		
		+50									21	33		
		377+40									15	33		
		+50									21	38		
		378+40									20	35		
		+50									18	38		
		379+40									23	56		
		+50									39	68		
		380+40									34	94		
		+50									68	89		
		381+40									28	50		
		+50									26	49		
		382+40									27	47		
		+50									24	36		
		383+40									15	38		
		+50									26	Lt. 44	Rt.	
		384+40						Lt. 20			9	20	8	19
		+50					13	21					10	17
		385+40					10	16					10	19
		+50					7	20					21	29
		386+40					13	24					31	48
		+50					11	22					10	38
		387+40					13	24					10	19
		+50					13	20					10	19
		388+40					9	17					10	19
		+50					9	19					10	17
		389+40					12	20					8	16
		+50					10	19					9	17
		390+40					10	17					9	22
							8	14			Rt. 12	25	15	
							7							
		CARRIED FORWARD												
		COLUMN FOOTINGS						0				2047		39
		CARRIED FORWARD						273				833		318
		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 - Shaws — Project No. 116-(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 11 — 1950

DOZER — SHOVEL — BACKHOE

PROFILE V. C.	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 AREA	Sub-Base of Gravel CU. YDS.
	39+10					7				12			
							15				22		
	+50					9				12			
							18				22		
						10				12			
							19				30		
						10				30			
							23				78		
						15				54			
							30				98		
						17				52			
							31				92		
	39+10					16				47			
							23				65		
	+50					9				23			
							18				39		
	39+40					10				19			
							19				26		
	+50					11				9			
							19				25		
	39+50					10				18			
							19				31		
	+50					10				16			
							19				35		
	39+60					10				22			
							16				38		
	+50					7				19			
							14				32		
	39+70					8				16			
							14				24		
	+50					7				10			
											24		
	39+80									16		8	
											25		14
	+50									11		7	
											29		14
	39+90									21		8	
											31		
	+50					8				12			
							17				22		
	40+00					10				12			
							17				24		
	+50					8				14			
							14				31		
	40+10					7				20			
							14				110		
	+50					8				99			
							15			132	169		
	40+20					8				83			
							14			100	93		
	+50					7				17			
							16			34	31		
	40+30					10				17			
							18				39		
	+50					9				25			
							19			41	47		
	40+40					11				26			
							19				56		
	+50					10				34			
							19				69		
	40+50					10				41			
							21			34	70		
	+50					13				35			21
										54			
	40+60									23		10	

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

PROFILE 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 AREA	Sub-Base of Gravel CU. YDS.
		40+60									23		10	
												50		19
		+50									31		10	
												50		19
		40+70						21			23		11	
								19				34		
		+50					9				14			
								17				26		
		40+80					9				14			
								17				36		
		+50					9				25			21
												60		18
		40+90									40		10	
												73		22
		+50									39		14	
												59		36
		41+00						21			25		25	
								34				33		
		+50					12				11			
								16				17		
		41+10					5				9			
								11				16		
		+50					7				10			
								12				19		
		41+20					6				11			
								12				22		
		+50					7				13			
								12				19		
		41+30					6				8			
								11				19		
		+50					6				13			
								9				20		
		41+40					4				9			
								11				19		
		+50					8				11			
								12				24		
		41+50					11				15			
												26		
		+50											2	11
													33	2
		41+60											20	
													19	6
		41+70					9	11						17
								17					9	
		+50					9							16
								16					8	
		41+80					8							16
								16					9	
		+50					9				21			
								16						
		41+90					8				14			
								17			31			
		+50					10				20			
								18				61		
		42+00					9				46			
								18				69		
		+50					10				29		RI.	
								17						34
		42+10					8						8	
								15						16
		+50					8						9	
								14						
		42+20					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-1164			

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- 150		39	
						50		80			SB- 130			68
		+50					43						37	
						50		70						62
		10+00					33						30	
						50		39						34
		+50					9						7	
						50		14						12
		11+00					8						6	
						50		14						12
		+50					9				C- 176		7	
						50		12			SB 181			11
		12+00					6						5	
						50		10						12
		+50					8						8	
						50		10						12
		13+00					6						5	
						50		19						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						13
		+50					1						0	
						50		1						8
		16+00					0						9	
						50					C- 15			15
		+50									SB- 109		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- 0			11
		+50									SB- 110		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									C- 0			
						50					SB- 20			
		27+00											0	2
						50							2	4
		+50											2	3
						50							1	2
		28+00											1	3
						50							2	6
		+50											4	
						50							3	6
		29+00											4	5
						40							5	2
		+50												
						10								
		31+00												
CARRIED FORWARD							0							13
COLUMN FOOTINGS							941							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	7
						50								
		+50											3	5
			Sta - 9+00 - 37+00			50								
		32+00	Total C - 341 cy								C- 0		2	
			SB - 642 cy			25					SB- 60			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- 0			13
		36+00									SB- 32		4	
						50								6
		+50											3	
						37								3
		+37											1	
		37+00	Waterbury - Non Government - 8 typs			13								1
						42							4	6
		+42											4	
			Total - C-0			8					C- 0			1
		+50	SB-17								SB- 17		3	
						50								6
		38+00											4	
						30								4
		+30				42							3	
			Begin - Non Government - F-1164(6)											
		508+00				50	15	43					22	39
		+50				50	37		0				20	28
		509+00				50	23	56	12	11			10	
			Sta - 508+00 - 516+50			50	18	38	6	16			12	20
		+50	Total C - 570 cy			50	59	69	30	32			14	24
		510+00	R - 137 cy			50	40	90	25	81			19	31
		+50	SB - 447 cy			50	18	55	3	26			17	33
		511+00				50	9	25	0	3			18	32
		+50				50	0	8					5	21
		512+00				50	0	0					3	7
		+50				50	10	9					15	17
		513+00				50	10	19					25	39
		+50				50	13	21					26	46
		514+00				50	12	23	0				17	39
		+50				50	21	31	10	9			12	29
		515+00				50	21	39	0	9			67	55
		+50				50	16	54					59	96
		516+00				50	12	26					46	95
		+50	End - Non Government			50		30						102
			Begin - Stowe Village			50	20	32					64	101
		517+00				50	15	40					45	96
		+50				50	28	44					48	92
		518+00				50	20	39					30	49
		+50				20							23	
		519+00												
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		C - 272		23	
						50		43		9				43
		+50					26		8		R - 71		23	
						50		46			SB - 500			49
		520+00					24						28	
						50		41						44
		+50					20						19	
						50		42						47
		521+00					25						32	
						50		44			C - 441			46
		+50					22				R - 39		18	
						50		49			SB - 435			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						36
		525+00					18						19	
						50		33						36
		+50					18						20	
						50		33						35
		526+00					18				C - 365		18	
						50		33			R - 0			36
		+50					18				SB - 345		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						18	
						50		38						34
		+75				25		20					19	
		531+00					20							19
						50		19					22	
		+50					20				C - 407			38
						50		43			R - 0		19	
		532+00					32				SB - 350			35
						50		41					19	
		+50					19							36
						50		38					19	
		533+00					22						18	
						50		41						33
		+50					22						18	
						50		41						33
		534+00					22						18	
			Sta 517+00 - 537+00			50		41						33
		+25	Total - C - 1627 cy				22						18	
			R - 46 cy			50		20						18
		+75	SB - 1794 cy			25	18	36					21	
		535+00	75cy for Wires					17						18
			total SB - 1845			25	18	17					20	
		+50				50		33						36
						50	18	33			C - 142		20	
		536+00									R - 0			35
						50	18	38			SB 140		18	
		+50					23						19	34
						50		38						
		537+00					18						19	35
			END Stowe Village											
CARRIED FORWARD														
COLUMN FOOTINGS														

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

EARTHWORK SHEET

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT. F 1166				

PROFILE						TOTAL EXCAVATION EARTH AND 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.
		46+0												
		+50				50								
		+75				25								
		47+0				25	13				62		20	
		+50				50	16	27			83	134	26	43
		48+0		C - 282		50	23	36			66	138	29	51
		+50		E - 695		50	24	44				156		48
		49+0		SB - 277		50	19	40			102	115	23	43
		+50				50	44	58			22	47	23	44
		+78				28	42	45			29	31	25	25
		50+0				22	37	32			30	17	24	23
		+28				29	54	47			11	7	32	31
		+50				21	36	35			2	1	25	17
		+80				30	23	33			1	2	24	26
		51+0				20	22	17			3	6	21	20
		EQ (+28.2				28.2	21	17			12	30	32	29
		+76) (+16.4		C - 465		33.4		25			56	39	32	39
		+50		E - 600			19				7		32	
				SB - 323		50		34				9		50
		52+0				50	18				3		22	
		+50				50	17	32			32	32	28	46
		53+0				50	20	34			27	55	26	50
		+50				50	21	38			45	67	27	49
		54+0				50	23	41			68	105	31	54
		+50				50	24	46			79	136	28	55
		55+0				50	45	64			52	121	31	55
		+50				50	21	61			50	74	24	51
		56+0				50	21	39			25	69	29	49
		+50				50	38	52			12	34	30	55
		57+0				50	28	58			0	11	24	50
		+50				50	27	51			0	0	23	44
		58+0		C - 467		50	30	53			0	1	23	49
		+50		E - 240		50	20	46			1	2	30	50
		59+0		SB - 193		50	16	33			1	9	24	40
		+14				14	15	8			9	8	19	10
		+30				16	17	10			20	7	20	12
		+50				20	21	14			3	2	21	17
		60+0				50	28	42			3	3	24	56
		+50				50	23	44			0	1	37	50
						50		39			1	3	17	39
		61+0		C - 360		19					2		20	
		EQ (0.7		E - 8		13.7	21	8			0	1	18	9
		1.8) (8.8		SB - 321		23.5	26	21			0	0	17	15
		+39				11		9			0	1	17	7
		+50				25	17	24			3	2	16	16
		+75				13	35	11			0	0	18	7
		+88				12	10	4			0		9	4
		62+0					10						9	
		CARRIED FORWARD						160		0				142
		COLUMN FOOTINGS						1374		1496				1423

PROFILE						TOTAL EXCAVATION EARTH AND 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.
		62+0												
		+50				50	10	19					9	18
		63+0				50	10	19					10	21
		+28				28	11	11					13	12
		+50				22	11	13					11	12
		64+0				50	21	38					19	35
		+50				50	20	43					19	36
						50	26	57					20	45
		65+0				30	36	74			0	2	29	32
		+50				50	66	135			2	2	27	47
		66+0				20	80	69			0	0	24	18
		+20				30	106	90			0		25	28
		+50				50	55	81					25	57
		67+0		C - 617		50	33	61			0	6	37	63
		+50		E - 157		50	33	47			7	6	31	44
		68+0		SB - 330		50	18	19			0	10	17	17
		+50				50	2	8			11	26	1	
		69+0				50	7	8			17	50	0	1
		+50				50	2	5			37	55	1	2
		70+0				30	3	5			22	31	1	3
		+50				50	2	4			11	13	2	4
		71+0				50	2	4			3	7	2	3
		+50		C - 53		50	2	4			7	9	1	1
		72+0		F - 86		50	2	4			3	6	0	0
		+50		SB - 20		50	2	4			4	3	0	0
		73+0				50	7	9			1	2	0	1
		+50				50	3	7			1	4	1	3
		74+0				50	2	5			3	5	2	3
		+50				50	3	5			2	5	2	3
		75+0				50	2	4			0	0	1	4
		+50				50	2	4			0	6	3	6
		76+0				50	2	4			7	11	3	5
		+50				50	2	6			5	12	2	6
		77+0		C - 47		50	4	6			8	22	4	13
		+50		F - 195		50	3	4			16	32	10	13
		78+0		SB - 82		50	1	3			19	32	4	9
		+50				50	2	4			16	31	4	8
		79+0				50	2	5			17	30	5	12
		+50				15	3	1			15	5	8	3
		+65				35	2	6			4	4	4	5
		80+0				50	7	31			2	6	3	7
		+50				25	26	53			4	4	5	5
		+75				25	82	79			3	5	5	4
		81+0				25	99	77			6	5	3	5
		+25				25	82	61			4	9	7	7
		+50				50					16		6	
		CARRIED FORWARD						301		29				281
		COLUMN FOOTINGS						1218		457				639

PROFILE						TOTAL EXCAVATION EARTH AND ROCK		Channel		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.
		81+50												
		82+0				50	50	105			16	36	6	11
		+25				25	63	85			23	21	6	7
		+50				25	121	97			22	22	8	6
		+75				25	89	110			24	20	9	8
				C - 800		25	149	74			19	18	8	6
		83+0		E - 338			11				3		5	
		EQ (28.9		SB - 140		28.9		11				1		4
		+3.1 (24.1					12				0		2	
		84+0				26.9	2	5			0	0	2	2
		+50				50	2	4			2	2	2	6
		85+0				50	2	4			2	4	5	5
		+50				50	2	4			87	82	9	13
		+85				50	2	4			37	115	9	17
		86+0				50	6	7			3	37	6	14
		+25				35	39	29			6	6	8	7
		+85				15	50	26			7	3	7	4
		87+0				25	76	60			4	5	8	7
		+25				25	74	70			5	4	7	7
		+50		C - 505		36	63	92			7	9	7	9
		+86		E - 151		14	76	36			8	4	6	3
		88+0		SB 105		32	51	80			2	6	7	6
		+32				18	50	35			2	2	3	4
		+50				50	3	53			3	3	7	13
		89+0				50	2	5			30	28	5	6
		+50				50	2	4			0	4	1	7
		90+0				50	2	4			8	4	7	7
		+50				50	2	4			3	6	3	9
		91+0				50	2	4			3	6	8	10
		+50				50	2	4			10	12	15	17
		92+0				50	2	4			14	22	8	19
		+50				50	2	4			30	31	5	12
		93+0				25	2	2			0	14	1	3
		+25				25	2	4			9	4	13	7
		94+0		C - 250		35	12	20	0	4	41	45	16	27
		+50		E - 452		50	10	26	5	12	7	46	8	22
		95+0		SB - 201 (42)		50	18	28	8	17	21	14	18	12
		+25		Ch - 92		25	43	38			28	23	17	16
		+50				25	38	37	10	16	52	47	17	18
		+77				27	40	21	7	17	87	15	27	20
		96+0				23	10	26	14	24	70	42	34	56
		+50				50	13	31	12	22	94	70	26	56
		97+0				50	15	22	12	22	68	94	24	46
		+50				50	9	25	12	22	77	127	18	37
		98+0		C - 209		50	18	23	12	22	56	119	23	38
		+50		E - 880		50	7	17	12	20	52	107	25	44
		99+0		SB - 98		50	14	25	10	16	56	106	23	44
		+50		Ch - 241		50	13	24	7	21	57	105	23	43
		100+0				50	13	28	16	37	35	85	22	42
		+50				50	17		24					
		CARRIED FORWARD						166		160		745		296
		COLUMN FOOTINGS						1420		252		1659		773

PROJECT Waterbury - Stowe

Series 93 No. Filed

Sheet 1 of Sheets

EARTHWORK SHEET

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

PROFILE						TOTAL EXCAVATION EARTH AND ROCK		CHANNEL		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.
		98+50					17	13	24		35		22	
						25				36		37		18
		+75					12	12			49		17	
						25			15	41		23		14
		99+0					15	14			0		14	
						50						31		17
		+50					2		29		33		4	
		+68			18	50	2	4	0	10	23	52	10	18
		100+0												
						50	1	3			59	76	15	31
		+50				50	1	2			3	57	7	23
		101+0				50	1	25				3		27
		+50					26				0		22	
			C	598		50	13	64				2		42
		102+0	E	600										
			SB	317		50	49	85				27		44
			CA	140										
		+50				50	89	115	0	2		37		40
		+85			38									
		103+0				50	78	139	6	19		68		32
		+50				50	73	112	15	31		76		33
		104+0				50	46	82	18	39		71		28
		+50				50	4	5	24	49		69		17
		105+0				50	1	2	29	56		60		12
		+50				50	1	3	31	65		50		16
		106+0	C	591		50	2	4	39	110		35		22
			F	307										
		+50	CA	551		50	2	3	20	75		26		22
			SB	180										
		107+0				50	1	2	23	39		53		15
		+50				50	1	2	15	38		58		6
		108+0				50	1	2	26	34		57		6
		+50				50	1	3	11	27		68		6
		109+0				50	2	22	18	40		53		26
		+50				50	22	44	23	51		47		49
		110+0				50	26	46	28	79		49		32
		+50				50	23	43	22	44		44		52
		111+0				50	22	39	22	43		53		48
		+50	C	491		50	23	44	22	44		68		53
		112+0	E	1061										
			CA	507		50	27	54	23	45		84		65
			SB	321										
		+50				50	31	57	24	41		94		70
		113+0				50	32	55	20	71		118		61
		+50				50	23	58	57	88		170		54
		114+0				50	33	53	32	72		214		50
		+50				50	22	42	40	53		172		46
		+86	Built			36								
		115+0				74	23	44				111		44
		+50				50	24	42				97		43
		116+0				50	21	41				46		47
		+50	C	427		50	23	40				52		43
		117+0	F	754										
			SB	463		50	20	37				101		46
		+50				50	20	43				126		52
		118+0				50	23	45				137		44
		+50				5.6	23	5				13		5
		F&C +33.6												
		H&C +43.6				4.4	22	4				10		4
		+50				50	24	43				54		48
		119+0				50	20	44				0		46
		+50					23							
CARRIED FORWARD							883				748		422	
COLUMN FOOTINGS							1605		1285		2961		1937	

PROFILE						TOTAL EXCAVATION EARTH AND ROCK		Channel		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.
		119+50					23				0		22	
						30		29				3		26
		+80					21	15			5		22	
						20						3		17
		120+0					21				3		24	
						22		36				1		22
		+22					20				0		23	
						28		66				0		34
		+50					60						37	
						25		48						37
		+75					24						23	
						25		34				0		39
		121+0				25	30				0		41	
		+25				30		56	0			42		75
		+50					31		10	5	45		44	
			C	612		50		56		37		56		64
		122+0	E	398										
			Ch	930		50	47	55	30	49	15	35	29	56
			SB	609										
		+50				50	32	58	23	33	23	44	31	56
		123+0				50	33	53	13	74	83	48	30	53
		+50				50	26	47	67	78	24	35	21	53
		124+0				50	25	50	17	30	35	63	32	56
		+50				50	29	51	15	30	133	52	23	55
		125+0				50	26	46	39	51	23	46	30	52
		+50				50	24	43	16	28	21	58	26	51
			C	470		50								
		126+0	E	648			23	47	8	21	36	56	23	36
			Ch	170		50								
		+50	SB	537		50	22	46	19	33	23	57	31	56
		127+0				50	22	45	21	32	37	65	30	56
		+50				50	21	42	14	11	33	73	30	48
		+20	Built			30			16					
		128+0				50	21	43			46	85	22	45
		+50				50	25	50			46	69	27	58
		129+0				50	29	53			22	76	36	60
		+50				50	27	53			54	70	24	55
		130+0				50	29	50			22	70	30	56
		+50				50	30	52			3	23	28	54
		131+0				50	26	48			3	3	29	53
		+50				50	26	51			6	0	33	57
		132+0				50	29	48			5	3	25	54
		+50	C	495		50	23	43			6	8	23	46
		133+0	E	48										
			SB	509		50	22	46			0	6	36	56
		+50				50	27	25				0	29	52
		+75				25	28	26					21	23
		134+0				25	23	26					25	21
		+50				50	26	52				0	24	45
		+69				19	28	18			0	1	24	16
		135+0				31	22	27			4	4	21	25
		+50				50	29	57			5	11	28	36
		136+0				50	25	52			9	17	36	71
		+50	C	492		50	23	47			9	22	39	68
		137+0	E	268										
			SB	586		50	20	39			15	21	34	62
		+50				50	26	54			3	16	33	60
		138+0				50	23	54			9	25	38	77
		+50				50	22	44			13	38	42	76
		139+0				50	17	36			19	39	41	72
		+50					23	37			6	23	37	70
CARRIED FORWARD							450				212		618	
COLUMN FOOTINGS							8064		526		1314		2309	

PROFILE						TOTAL EXCAVATION EARTH AND 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.
		139+50					23				6		35	
						50		42				31		68
		140+0					22				28		38	
						50		69				27		71
		+50				50	52	198			1	1	39	64
		141+0				50	162	284			0	0	30	53
		+50				50	145	201			0	6	27	50
		142+0				31	72	128			7	5	27	31
		+31		C	1159	19	63	39			2	1	27	22
		+50		F	156									
				SB	639	50	88	78			2	6	36	68
		143+0				50	36	62			5	33	37	69
		+50				50	51	56			31	41	37	70
		144+0				50	29	48			13	20	32	76
		+50				32	23	29			9	8	44	51
		+82				18	26	17			5	8	42	28
		145+0				50	16	42			16	42	41	89
		+50				50	23	49			27	48	55	104
		146+0				50	29	54			23	49	61	93
		+50		C	423	50	21	46			28	52	43	79
		147+0		F	339									
				SB	913	50	18	36			22	41	42	83
		+50				50	19	34			16	27	47	83
		148+0				50	15	41			13	19	42	89
		+50				50	26	47			6	15	54	114
		149+0				50	23	45			10	20	58	97
		+50				50	24	43			12	24	57	94
		150+0				50	26	41			14	23	42	93
		+50				50	22	43			11	22	55	110
		151+0				50	27	45			13	24	64	115
		+50				50	22	43			12	31	60	107
		152+0		C	429	50	24	41			20	41	58	102
				F	300									
		+50		SB	1045	50	20	39			21	37	52	103
		153+0				50	23	42			16	29	59	110
		+50				50	23	44			13	23	60	109
		154+0				50	22	44			10	28	58	101
		+50				50	22	41			20	42	51	97
		155+0				50	22	41			20	58	47	84
		+50				50	22	33			68	98	44	77
		156+0				50	14	36			63	132	29	69
		+50				50	23	38			73	166	39	67
		157+0				50	33	84			14	136	39	59
		+50		C	517	50	53	84			43	95	41	59
		158+0		F	1045									
				SB	661	60	43	94			60	63	58	35
		+30				30	33	48			53	35	30	27
		+50				20	23	20			41	35	34	24
		159+0				50	14	27			51	65	40	69
		+50				50	23	36			46	87	31	66
CARRIED FORWARD							477				967		603	
COLUMN FOOTINGS							2032				1783		3282	

PROJECT E116(5)

Series No. Filed

Sheet 2 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 EARTH AND ROCK CU. YDS.	AREA	CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	BASE AREA	BASE CU. YDS.
		159+50				50	25	40			45	88	31	56
		160+0				50	18	93			50	97	32	60
		+50				50	23	41			55	98	33	59
		161+0				50	21	44			51	113	31	61
		+50				50	27	47			71	110	35	61
		162+0	C	440		17					54	92	37	62
		+50	E	652		50	35	44			45	49	30	40
			SB	573			21	41			8	51	31	37
		163+0				35	26	36			0	0	26	35
		+35				15	30	16			0	0	23	15
		+50				50	28	52			11	10	29	39
		164+0				50	28	49			19	28	29	55
		+50				50	25	44			19	44	28	52
		165+0				50	22	42			28	20	26	49
		+50				50	26	48			31	42	25	48
		166+0				50	26	50			16	16	27	52
		+50				50	28	54			1	2	29	55
		167+0	C	503		50	30	50			1	1	27	45
			E	120										
			SB	453										
		+50				50	24	42			0		22	40
		168+0				50	21	41					21	39
		+50				50	23	44					21	39
		EQ 1776 -32 1744.8				426	29	60					21	41
		+50				50	28	44			0	2	26	49
		170+0				50	28	49			2	3	27	50
		+50				50	26	48			30	28	33	58
		171+0				50	26	48			0	1	31	62
		+50				50	29	51			18	29	36	68
		172+0				50	26	48			13	12	37	55
		+50	C	412		50	24	43			0	2	26	41
			E	2268										
			SB	561										
		+76				26	23	19			57	110	59	31
		173+0				24	20	36			190	238	25	46
		+50				50	18	33			283	85	25	45
		174+0				50	16	31			453	172	24	46
		+50				50	15	32			322	136	25	44
		175+0				50	20	37			413	355	22	28
		+31				31	44	38			235	230	21	15
		+50				19	64	219			400	255	23	41
		176+0				50	205	207			505	355	27	54
		+50				50	19	43			563	215	31	26
		177+0	C	841		50	27	174			428	189	22	16
			E	4075										
			SB	478		20								
		+20				18	30	35			82	97	17	18
		+50				30	35	58			92	91	16	36
		178+0				50	18	33			8	7	16	35
		+50				50	23	40			1	111	26	65
		179+0				50	20	38			119	151	39	61
		+50				50	21	41			44	70	33	61
		180+0					23				32		33	
		CARRIED FORWARD						0				0		0
		COLUMN FOOTINGS						2238				7703		2123

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.
		180+0				23		32			32		33	
		+50				50	19	34			33	60	30	50
		+86				36	10	19			33	49	30	31
		181+0				14	13	6			40	21	17	8
		+50				50	21	31			40	102	17	42
		182+0				50	22	40			71	108	28	54
		+50				50	20	36			47	110	30	57
		183+0				50	23	41			72	122	32	54
		+50				50	18	31			60	132	26	52
		184+0				50	37	51			85	141	30	51
		+50				50	41	72			70	212	25	47
		185+0				50	43	78			128	326	26	38
		+50				50	31	69			95	208	31	51
		186+0				50	37	63			124	208	31	60
		+50				50	41	72			3	118	34	54
		187+0				50	74	100			0	3	28	51
		+50				50	27	90					22	43
		+60				10	17	8					19	7
		188+0				40	18	28					20	28
		+30				30	12	17					18	17
		+50				20	18	10					13	10
		+80				30	16	17					15	19
		189+0				20	18	15					19	14
		+50				50	19	31					17	20
		190+0				50	17	29					12	21
		+10				10	17	6					17	7
		+50				40	16	24					21	30
		191+0				50	13	27					19	33
		+50				50	14	25					17	38
		+68				18	14	9					24	16
		192+0				32	18	19					24	27
		+50				50	18	35					21	37
		193+0				50	17	32					19	31
		+27				27	15	15					19	16
		+50				23	14	12					17	14
		+68				18	13	9					16	15
		194+0				32	13	15					14	17
		+50				50	21	32					21	32
		+70				20	21	16					21	15
		195+0				30	20	25			0		19	21
		+15				15	19	11			4	1	19	10
		+50				35	19	22			0		18	25
		+67				17	19	12					20	15
		196+0				33	22	25			0		27	32
		+50				50	22	41			2	1	25	44
		+85				35	22	28			0	1	22	34
													30	
		CARRIED FORWARD						143				4		160
		COLUMN FOOTINGS						1445				1982		1431

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.
		196+85				15	22	12			0	1	30	15
		197+0				50	20	35			2	2	23	40
		+50				50	21	35			0	5	20	37
		198+0				50	42	56			2	2	20	39
		+50				50	19	35			0		22	42
		199+0				50	19	30			0		23	35
		+42				42	19	6			0		26	7
		+50				08	19	35					23	43
		200+0				50	22	35					23	44
		+50				50	20	39					24	43
		201+0				50	22	38			0	1	25	40
		+40				40	22	38			1	1	29	40
		+50				10	22	8			2	1	24	18
		+88				38	22	31			0	1	29	34
		202+0	C	618		12	22	11			2	1	29	11
			E	0										
			SB	467										
		+50				50	26	51			2	2	26	48
		+90				40	29	38			0		26	30
		203+0				10	22	8			0		22	8
		+50				50	22	44			2	2	23	40
		204+0				50	25	79			0		27	46
		+15				15	60	34			0		25	19
		+50				35	63	81					27	30
		205+0				50	62	122					25	47
		+25				25	65	63					26	22
		+50				25	65	72					20	21
		+70				20	90	66					24	17
		206+0				30	88	92					21	27
		+30				30	82	84					28	32
		+50				20	34	31					30	21
		207+0	C	1002		50	50	74					27	42
			E	212										
			SB	492										
		+38				38	30	34			0	2	25	37
		+50				12	46	18			30	8	28	12
		208+0				50	36	66			5	2	24	16
		+50				50	35	73			23	2	26	30
		209+0				50	44	77			33	3	23	30
		+50				50	39	101			7	3	26	32
		210+0				50	77	142			25	3	30	37
		+50				50	76	150			13	4	32	37
		211+0				50	92	150			33	5	31	33
		+50				50	77	108			21	3	27	32
		212+0	C	983		50	40	80			17	3	30	33
		+50	E	323		50	51	92			20	3	27	32
		213+0	SB	600		50	48	91			20	3	32	32
		+50				50	50	81			22	3	33	60
							38				12		37	
		CARRIED FORWARD						768				269		396
		COLUMN FOOTINGS						2661				497		1616

PROJECT

Series No. Filed

Sheet 3 of Sheets

EARTHWORK SHEET

FED. ROAD DIST. NO. 9 | ST. | VA.

PROFILE						TOTAL EXCAVATION EARTH AND 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.
		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	
						30		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	
				E = 742		50		38				135		81
		+50		SB = 770			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		77				22		69
		+50					54				7		37	
						25		57				5		31
		+75					70				5		27	
						25		40				9		32
		220+0					16				13		43	
						50		79				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	
				E = 122		50		58				21		68
		+50		SB = 831			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		20	
						25		46				0		26
		+25					45						30	
						25		52						
		+50					67						30	
						50		91				0		58
		226+0					31				0		33	
						50		48				28		66
		+50		C = 550			21				30		38	
				E = 238		50		41				39		69
		227+0		SB = 652			23				12		36	
						50		42				19		66
		+50					22				2		35	
						50		40				19		67
		228+0					21				12		37	
						50		42				16		68
		+50					24				3		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				84		75
		+50					65				65		40	
						50		141				102		73
		231+0					57				45		39	
						50		167				51		73
		+50					73				10		40	
				C = 929		50		141				63		71
		232+0		E = 748			57				58		37	
				SB = 733		50		94				82		73
		+80					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	
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.
		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	
				E = 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					23				11		32	
						50		58				22		64
		+50					35				13		37	
						20		24				12		26
		+70					29				17		33	
						30		26				21		40
		240+0					17				18		38	
						50		36				61		72
		+50					22				49		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		E = 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		E = 228			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					23				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		E = 81			34				4		41	
				SB = 747		50		53				11		69
		+50					23				8		33	
						50		47				12		69
		253+0					23				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	
		255+0					18						24	
						50		40						43
		+50					21						22	
						50		46						43
		256+0					28						24	
CARRIED FORWARD								86				0		86
COLUMN FOOTINGS								2311				1469		2966

PROFILE						TOTAL EXCAVATION EARTH AND ROCK				EMBA	
V.C.	% GRADE	STATION	ELEVATION ON GRADES	ELEVATION ON V CURVES	CORR V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA
		256+0					28				0
						50		61			
		+50					38				0
						50		52			
		257+0					18				3
				C = 500		50		42			
		+50		E = 533			27				5
				SB = 600		50		46			
		258+0					23				25
						50		45			
		+50					26				94
						50		52			
		259+0					30				44
						50		55			
		+50					29				90
						50		61			
		260+0					37				59
						50		62			
		+50					31				41
						50		53			
		261+0					27				36
						50		32			
		+50					29				7
						25		28			
		+75		C = 724			31				5
				E = 239		25		20			
		262+0		SB = 837			25				1
						50		51			
		+50					30				0
						50		70			
		263+0					46				0
						50		84			
		+50					45				3
						50		79			
		264+0					40				12
						50		93			
		+50					61				16
						50		126			
		265+0					75				17
						50		147			
		+50					84				16
						50		142			
		266+0					71				12
						50		146			
		+50					87				13
				C = 932		50		148			
		267+0		E = 328			68				13
				SB = 782		50		113			
		+50					54				16
						50		67			
		268+0					18				28
						50		33			
		+50					18				26
						50		37			
		269+0					26				27
						50		46			
		+50					24				41
						50		53			
		270+0					33				6
						50		63			
		+50					35				4
						34		40			
		+84					28				0
						16		15			
		271+0					24				5
						50		42			
		+50					21				15
				C = 380		50		37			
		272+0		E = 329			19				29
				SB = 739		50		32			
		+50					18				25
						50		35			
		273+0					20				29
						50		39			
		+50					22				23
						20		15			
		+70					18				25
						30		21			
		274+0					19				19
						50		35			
		+50					19				25
						50		34			
		275+0					18				12
						25		20			
		+25				25					0
						25		21			
		+50					21				35
CARRIED FORWARD								41			
COLUMN FOOTINGS								2491			

													22	68
													1556	2943

PROJECT

Series No. 4 Proj.

EARTHWORK SHEET

PROFILE						TOTAL EXCAVATION EARTH AND ROCK		Channel		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.
		275+50				50	21	40			35	74	29	62
		276+00				50	22	44			43	127	38	78
		+50				50	25	47			92	202	43	77
		277+00		C	478		26				126		40	
		+50		E	1754	50	31	53			157	268	36	70
				SB	701									
						50		60				181		60
		278+00				50	34	58			89	153	39	70
		+50				50	29	54			126	214	41	81
		279+00				50	29	42			103	274	34	67
		+50				50	16	39			191	248	34	67
		280+00				50	36	66			248		40	
		+50				50	34	69			5	73	39	73
		281+00				50	40	72			11	18	43	78
		+50				50	35	74			0	10	33	72
		282+00		C	1347	50	33	109					29	58
		+50		SB	301	50	103	219					29	54
		283+00				50	108	226					29	49
		+50				50	116	207					24	41
		284+00				50	102	197					20	40
		+50				50	107	206					23	42
		285+00				50	116	212					23	42
		+50				50	113	154					23	42
		286+00				50	53	96					22	41
		+50		C	821	50	51	98					22	53
		287+00		E	435		44	59			0	33	32	65
		+50		SB	639	50	20	40			36	94	32	83
		288+00		Ch	31	50	23	44			69	110	33	89
		+50				50	24	43	0	7	54	100	31	78
		289+00				50	22	21	8	10	21	46	20	39
		+33				33	13	11	3	5	19	42	12	20
		+50				17	22	53	8	15	58	57	32	87
		290+00				50	32	57	8	18	36	49	49	92
		+50				50	27	46	11	26	36	49	31	80
		291+00				50	22	44	11	22	17	41	31	74
		+50		C	495	50	26	43	7	12	27	59	40	77
		292+00		E	566	50	20	40	6	12	37	63	40	69
		+50		SB	704	50	23	49	7	17	31	60	34	77
		293+00		Ch	130	50	28	47	8	14	18	48	42	70
		+50				50	22	52	10	9	47	87	41	81
		294+00				50	31	57	0		47	74	46	88
		+50				50	31	61			33	31	49	74
		295+00				50	35	69			0		31	56
		+50				50	39	80					29	55
		296+00				50	42	82					30	57
		+50				50	42	82					32	59
		297+00				50	42	78					22	50
CARRIED FORWARD COLUMN FOOTINGS							309	3609		167		2834		2835

PROFILE						TOTAL EXCAVATION EARTH AND 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.
		297+00				50	42	64					22	43
		+50		C	604		27						24	
		298+00		E	83	50	37	59						43
		+50		SB	494				0	22			22	44
		299+00				50	18	31	5	6			22	44
		+30				30	26	41	0	6			26	48
		+50				20	20	26	0	0			23	27
		300+00				50	21	37	0	7			24	17
		+50				50	21	37	20	64			24	54
		301+00				50	19	37	43	94			94	60
		+50				50	19	32	48	96			31	62
		302+00				50	16	34	56	70			36	64
		+50				50	21	43	20	70			33	57
		303+00		C	198	50	25	53	3	21			89	48
		+50		E	289		32	64	0	3			25	42
		304+00		SB	489	50	37	65					22	41
		+50				50	33	65					22	41
		305+00				50	21	43					20	40
		+50				50	19	37					20	40
		306+00				50	30	61					22	42
		+50				50	36	69					23	42
		307+00				50	26	62					23	41
		+50		C	631	50	19	37					19	25
		308+00		E	2		21	40					19	36
		+50		SB	414	50	30	59					20	41
		309+00				50	30	59					18	21
		+25				25	32	61					26	24
		+50				25	35	67					26	24
		310+00				50	47	82					22	22
		+50				50	29	70					22	35
		311+00				50	32	61					18	37
		+50				50	21	52					24	44
		312+00				50	29	50	0	7			24	44
		+50		C	534	50	32	78	8	10			25	52
		313+00		E	233		32	75	3	8			32	57
		+50		SB	491	50	29	55	6	16			29	56
		314+00				50	30	50	11	35			31	57
		+50				50	24	42	27	57			33	55
		315+00				50	21	39	35	68			28	44
		+50				50	17	35	20	42			22	43
		316+00				50	22	36	13	28			19	40
		+50				50	18	37	23	33			28	42
CARRIED FORWARD COLUMN FOOTINGS							73	2031			61	659	82	1752

PROFILE						TOTAL EXCAVATION EARTH AND ROCK							
V.C.	% GRADE	STATION	ELEVATION ON GRADES	ELEVATION ON V. CURVES	CORR V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.			
		316+00				50	18	36					
		+50				50	21	33					
		317+00		C	338	50	15	30					
		+50		E	306	50	17	33					
		318+00		SB	451	50	19	33					
		+50				50	17	31					
		319+00				50	16	33					
		+50				50	20	36					
		320+00				50	19	37					
		+50				50	21	31					
		321+00				488	18	28					
		EQ (+48.8 -8.2 (+57.0				43	57	60					
		322+00		C	586	50	40	70					
		+50		E	261	50	52	87					
		323+00		SB	500	34	65	86					
		+34				16	36	36					
		+50				50	50	50					
		324+00				50	37	37					
		+50				34	30	30					
		+84				16	25	14					
		325+00				25	24	22					
		+25				25	24	22					
		+50				27	25	25					
		+77				23	25	18					
		326+00				50	18	37					
		+50		C	631	50	22	68					
		327+00		E	56	50	51	115					
		+50		SB	427	50	78	138					
						50							
		328+00				50	70	86					
		+50				50	17	31					
		329+00				50	17	34					
		+52				50	20	36					
		330+00				50	18	32					
		+50				33	17	29					
		+83		C	472	17	31	24					
		331+00		E	334	50	44	62					
		+50		SB	417	50	23	44					
		332+00				42	23	67					
		+42				8	61	16					
		+50				50	54	62					
		333+00				50	17	31					
		+50				25	53	23					
		+75											
CARRIED FORWARD COLUMN FOOTINGS							390	1872					

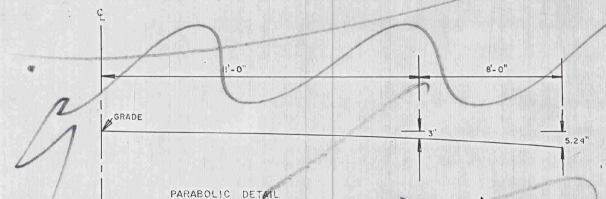
PROJECT

35
597

5

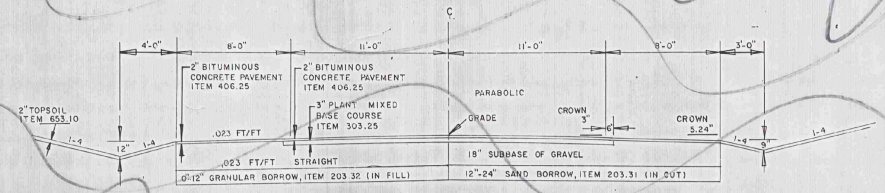
TYPICAL SECTIONS

	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)



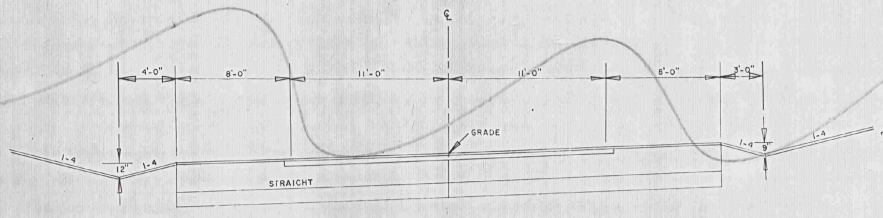
PARABOLIC DETAIL

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

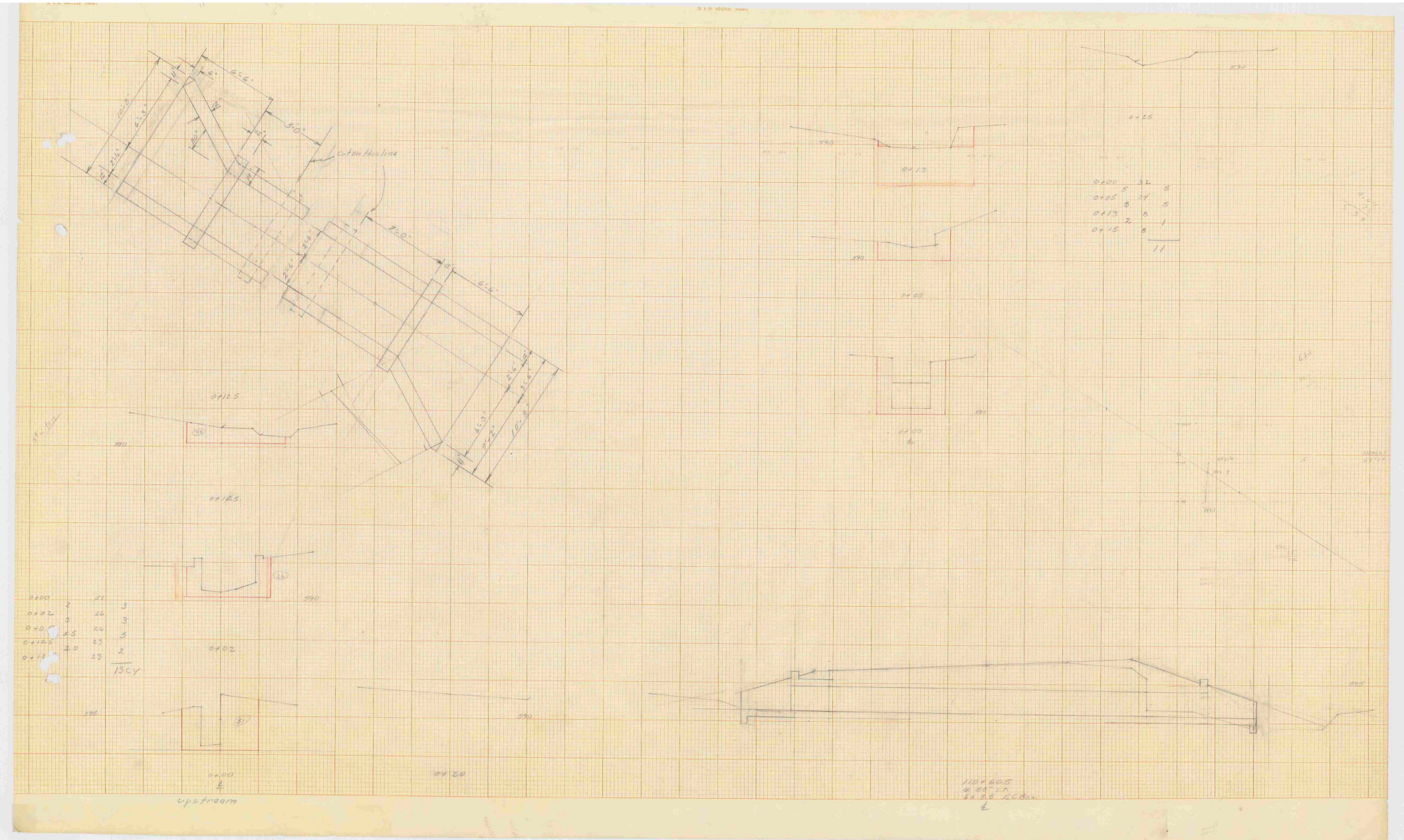
SEE STANDARD SHEET D-2 FOR PAY LIMITS OF SAND BORROW WHEN USED IN CONJUNCTION WITH UNDERDRAIN

ALLOWABLE THICKNESS TOLERANCES
SUB-BASE ± 1"
CONTROLLED MATERIAL ± 1"
PAVEMENT ± 1/4"

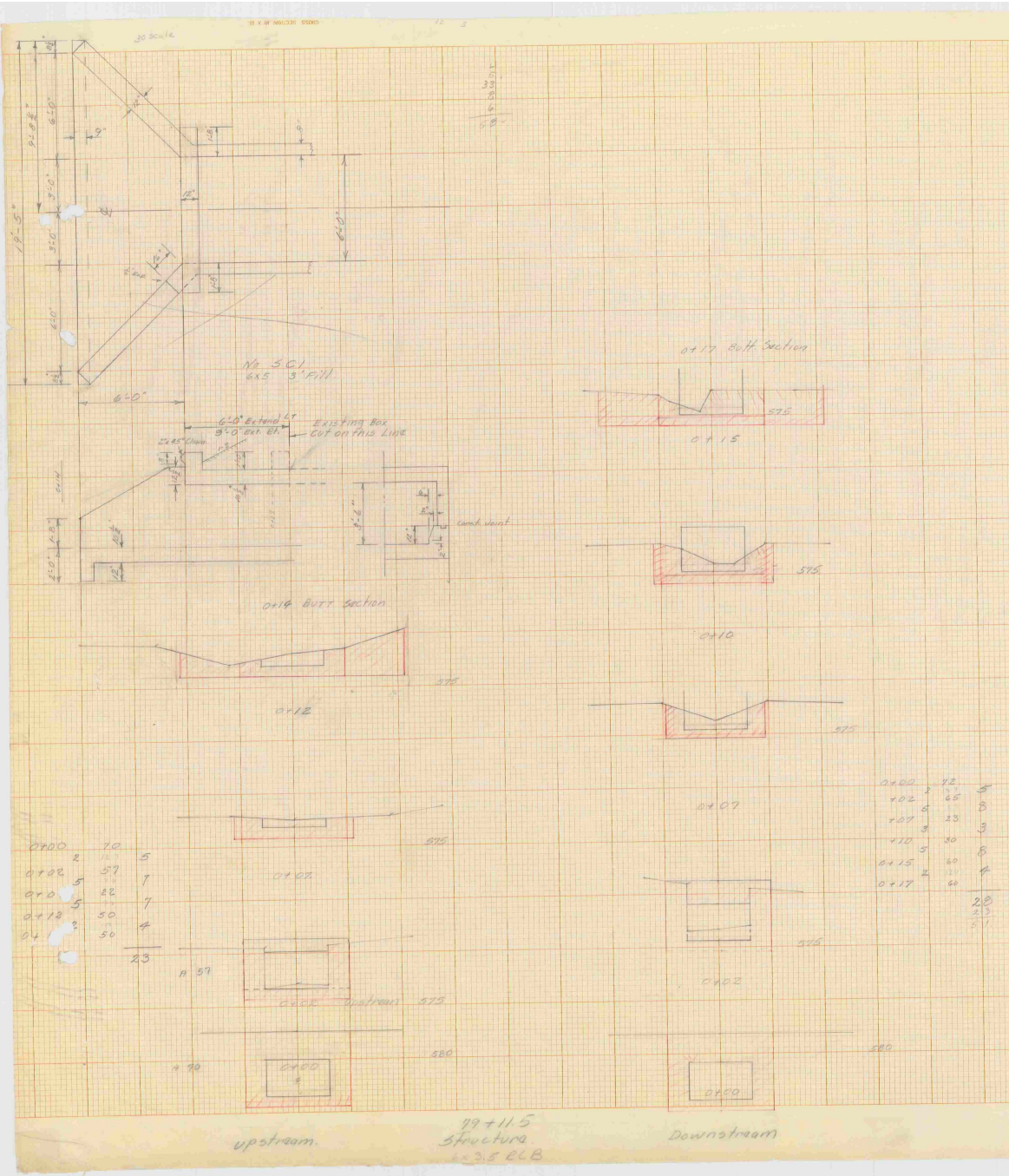
CITY OF BARRE

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

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



cut on this line
6'-6"
5'-0"
7'-0"
6'-6"
10'-8"
6'-3"
2'-6"
0+12.5
0+10.5
0+02
0+00
0+20
0+13
0+05
0+00
0+25
590
595
0+00 2 51 3
0+02 3 26 3
0+05 5.5 26 5
0+10.5 2.0 23 2
0+12 23
13CY
0+00 5 32 5
0+05 8 24 5
0+13 2 8 1
0+15 8
11
110+60.5
@ 58° L.F.
6x8.5 P.C. Box
upstream



0+00		70	
	2	127	5
0+02		57	
	5	77	7
0+0		22	
	5	77	7
0+12		50	
	2	77	4
0+1		50	
			23

0+00		72	
	2	137	5
+02		65	
	5	87	8
+07		23	
	3	30	3
+10			
	5	60	8
0+15		60	
	2	120	4
0+17		60	
			28
			23
			51

upstream.

79+11.5
Structure
6x3.5 RCB

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 — 1949-50

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	Channel	SHAPING COURSE OF GRAVEL CU. YDS.
			Bal. Rock	Net Diff.	Net Diff. Fill		Net Diff S.B.	Net Diff CH		
47+0	50+0	252	19	-134	633	- 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	62+0	360		+24	8	+ 8	+ 17	260		321
62+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	180	+ 11	- 52			52
80+0	85+0	80	693	+83	338	+ 49	- 49			110
85+0	90+0	505	302	+182	151	+150	+ 12			108
90+0	95+0	250	95	+91	454	+174	- 21	- 27	92	287
95+0	100+0	209		+40	890	-266	-154	- 78	247	363
100+0	105+0	596		+198	300	+ 75		-366	140	547
105+0	110+0	87		-12	301	- 22	-155	-330	551	180
110+0	115+0	491		+63	1061	-253	- 10	- 98	507	551
115+0	120+0	427		+33	754	+105	+ 10	- 0	0	465
120+0	125+0	675	40	- 28	373	+ 36	+194	+ 44	56	602
125+0	130+0	476		- 66		+ 80	- 38	- 70	170	327
130+0	135+0	423		- 27	42	- 3	- 17			509
135+0	140+0	492		- 41	213	+185	+ 97		3	686
140+0	145+0	1159	426	+266	100	+ 70	+ 92			653
145+0	150+0	429		+ 68	559	- 36	+ 112			915
150+0	155+0	1330		+ 60	300	- 61	+173			1048
155+0	160+0	577	33	- 19	1044	- 153	- 23			661
160+0	165+0	440		+45	602	- 138	- 23			575
165+0	170+0	393		+108	120	- 16	- 28			453
170+0	175+0	414		+ 49	2603	+1059	+ 30			368
175+0	180+0	641	688	-187	2070	+1090	+ 64			478
180+0	185+0	439		+108	1440	+ 78	+ 41			589
185+0	190+0	534		+ 27	550	- 92	+ 28			419
190+0	195+0	295		+ 23	0	0	- 44			314
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	1006	326	+ 71	212	+150	- 0			492
210+0	215+0	953	74	+341	323	- 24	+ 63			600
215+0	220+0	504		+ 38	178	+ 33	+ 166			712
220+0	225+0	999		+ 63	76	+ 47	+ 166			691
225+0	230+0	550		+ 96	255	-245	+ 68			666
230+0	235+0	999		+ 76	116	+211	+182			723
235+0	240+0	668		+ 76	183	- 80	+ 69			672
240+0	245+0	454		+ 36	385	+644	+143			710
245+0	250+0	495		+60	22	- 27	+ 33			701
250+0	255+0	514		- 68	81	+ 7	+125			747
255+0	260+0	500		+ 91	252	- 252	+ 44			600
260+0	265+0	724		- 27	259	+ 19	+206			559
265+0	270+0	933		- 86	323	+208	+217			783
270+0	275+0	330		- 2	329	- 92	+ 58			739
275+0	280+0	470		+ 89	754	+326	- 11			701
280+0	285+0	1547		- 258	98	0	+ 19			581
285+0	290+0	622		- 46	438	+ 12	+ 198	- 42	37	639
290+0	295+0	495		- 14	566	+218	+ 76	+ 82	130	694
295+0	300+0	604		- 56	53	- 8	+ 1		67	494
300+0	305+0	195		+ 51	280	-103	- 22			499
305+0	310+0	61	55	- 92	2	- 33	- 79			414
310+0	315+0	534		+102	253	-108	- 46			491
315+0	320+0	339		+ 29	300	- 59	-107			491
320+0	325+0	257	30	+ 79	30	- 23	+ 23			389
325+0	330+0	637	54	+ 82	30	+ 28	- 35			411
330+0	335+0	472	70	+ 48	332	+ 68	- 59			417
335+0	340+0	155	141	+ 2	32	+ 67	- 23			317
340+0	345+0	556		- 99	32	+ 30	- 116			493
345+0	350+0	1295	389	+227	405	- 66	- 57			513
	Sub-Total	34,384	3144		29,268			+865	2,230	31,783

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	Channel	SHAPING COURSE OF GRAVEL CU.
					Net Diff Fill		Net Diff SB	Net Diff		
350+0	355+0	675	220	+162	624		+ 6			640
355+0	360+0	644			190	-396	+83			479
360+0	365+0	580			171	- 16	+73			554
365+0	370+0	423			198	+68	+70			313
370+0	375+0	389	22		128	- 60	+96			492
375+0	380+0	464			296	- 58	+ 1			541
380+0	385+0	369			154	- 73	-33			451
385+0	390+0	332			630	- 76	+111			406
390+0	395+0	624			737	- 93	+26			501
395+0	400+0	465			302	+21	+16			526
400+0	405+0	644			1219	-168	+207			532
405+0	410+0	639			280	-339	- 3			610
410+0	415+0	418			854	+ 34	+17			639
415+0	420+0	448	49		473	- 28	+96			422
420+0	425+0	460	125		919	+21	+297			457
425+0	430+0	614			227	-232	+80			520
430+0	435+0	731			72	-116	+48			463
435+0	438+0	392			58	+400	- 24			265
440+0	445+0	70			0	+ 3	- 3			81
445+0	450+0	381			203	+ 7	+51			464
450+0	455+0	402			329	0	+ 2			460
455+0	460+0	570			253	+30	+120			530
460+0	465+0	468			202	+45	-124			598
465+0	470+0	684			934	+24	+321			620
470+0	475+0	425			135	+14	- 16			570
475+0	480+0	393			675	+ 6	-268			581
480+0	485+0	492			142	+36	+117			554
485+0	490+0	572	25	+132	1427		- 69			53
Sub-Total		49,707	4185		42,160			-836	2927	49,815

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		639	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		1939	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 1	43163
Total Excav. (Earth and Rock).	
Borrow	
Shaping Course	47339
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

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

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

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.	EMBANKMENT CU. YDS.	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL	Channel	SHAPING COURSE OF GRAVEL 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

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

State of Vermont — Department of Highways

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

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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		0 +00												
		Sta. 0+10 Project Begins Begin Non-Govt. Participation												
		+09.5												
		+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												

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		5 +56												
		+64				34								
		+90				10								
		6				50								
		+50									C	239		
		+59									R	31		
		+73				50					F	0		
											SB	188		
											Fac.	1.20		
		7				50					Exc. C	239		
		+50				50								
		8					0		0				0	
		+27				50		38		6				31
		+50					41		6				34	
		+90				40	42	62	6	9			34	50
		9				10	46	16	6	2			34	13
		+32				32	45	54	6	7			34	40
		+50				18	43	29	6	4			34	23
		+75				25	16	27	0	3			12	21
		10				25	11	13					9	10
		+10				10	7	3					4	2
		+50				40	5	9	C	146			4	6
		11				50	7	11	R	0			5	8
		+29				29	7	8	F	135			5	5
		+42				13	10	4	SB	163			9	3
		+50				8	4	2	Fac.	1.20	0		5	2
		+82				32	6	6	Exc. F	16	2	1	6	7
		+88				6	7	1			3	1	8	2
		+94				6	7	2			3	1	7	2
		12				6	7	2			2	1	7	2
		+50				50	3	9			5	6	7	13
		+70				20	7	4			2	3	6	5
		+85				15	4	3			5	2	7	4
		+97				12	4	2			5	2	7	3
		13 +25				28	10	7			0	3	12	10
		+50				25	12	10					10	10
		CARRIED FORWARD						83				20		84
		COLUMN FOOTINGS						322		31		20		272

State of Vermont — Department of Highways

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

FORM ENG. 1A — EARTHWORK SHEET NO. 9 — 1949

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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								
		+55				5								
		+72.5				17.5								
		CARRIED FORWARD						0				0		0
		COLUMN FOOTINGS						88				1751		273

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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
		+97				17								
						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
												6		
		+46				50								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

State of Vermont — Department of Highways

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

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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		34 +50									1		4	
		+75				25						1		2
		35				25					0		1	
		+30				30							3	2
		+50				20					0		7	6
		36				50	0	1	C	9	14	5	6	5
		+50				50	1	5	F	18		13		16
		+87				37	4	3	SB	45	0		11	
		37				13	0		Fac.	1.20			4	14
		+42							Exc.F.	13			1	3
		+50											3	1
		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	PROFILE ELEVATION On Grades	PROFILE 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.
		43 +19												
		+50												
		+75												
		44												
		+50												
		45												
		+50												
		46												
		+42												
		+50												
		+75												
		47					14				91		31	
		+27				50		86				179		58
		+50					79		C	411	102		32	
		48				50		131	R	14		189		56
		+50					63		F	829	102		28	
		+67				50		72	SB	333		185		52
		49					15		Fac.	1.20	98		28	
		+50				50		31	Exc.F.	584		111		56
		+78					19		0		22		32	
		50				50		39		5		63		56
		+29					23		5		46		29	
		+50				28		27		4		33		30
		+80					29		3		18		29	
		51				22		25		5		9		25
		EQ. 1+24.2 = +76 1+16.6					32		9		4		32	
		+50				29		33		8		5		34
		52					29		6		5		32	
		+10				21		24		2		2		24
		+50					32		0		1		29	
		53				30		28				4		36
		+50					18				7		35	
		54				20		14				5		23
		+50					19		C	396	6		28	
						24.2		17	R	10		13		24
							19		F	814	24		26	
						33.4		22	SB	528		19		33
							17		Fac.	1.20	6		28	
						50		30	Exc.F.	581		6		45
							15				0		21	
						50		28				25		47
							15				27		30	
						50		33				53		54
							21				30		28	
						50		36				106		52
							18				85		28	
						50		46				180		52
							32				109		28	
						50		47				209		52
							19				117		28	
		CARRIED FORWARD						358		10		627		476
		COLUMN FOOTINGS						769		24		1456		809

Sta. 47+00
Project Resumes
Begin Govt. Participation

State of Vermont — Department of Highways

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

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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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		40
		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				16	22	15			11	3	41	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	+13.7=					14						16	
	-1.8	+15.3				235		13						14
		+39					15		C	266			17	
						11		7	SB	309				7
		+50					19		Fac.	1.2			16	
						25		17	Ex C	-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

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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		100
		COLUMN FOOTINGS						546				611		552

State of Vermont — Department of Highways

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

FORM ENG. 1A — EARTHWORK SHEET NO. 12 — 1949

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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	Roc-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		11		10				10
	Ed -3.7	83 + 25.4 = 83 + 29.1				20.9	11		10				14	
								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	
		+525				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	Roc-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						14
		90					1				1	1	9	
		CARRIED FORWARD						0		0		0		0
		COLUMN FOOTINGS						730		676		319		280

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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	
						50		2				12		9
		+50					1						12	
						50		2				18		8
		+60									C-138			
											R-24			10
		91					1				F-280		7	
						50		2			SB-308	6		3
		+50					1				Roc-1.2		0	
						25		1			Ex F-198			1
		+75					1							1
						25		5						2
		92					9						0	
						50		16				21		13
		+50					8		0				23	
						50		15		1		32		31
		93					8		1				12	
						25		13		6		12		20
		+25					19		13				14	
						25		15		7		19		18
		+50					14		3				26	
						27		15		6		21		20
		+77					16		9				16	
						23		10		4		20		21
		94					7		0				31	
						50		19				59		22
		+50					13						33	
						50		23				60		30
		95					12						32	
														34
		+47				50		16				118		35
														64
		+50					5						95	
						50		15			C-169	155		33
		96					11				F-1156		72	
						50		17			SB-497	135		27
		+50					7				Roc-1.2		74	
						50		14			Ex F-1218	126		30
		97					8						62	
						50		20				119		32
		+50					14						66	
						50		25				118		30
		98					13						61	
						50		24				95		26
		+50					13						42	
						25		12				59		46
		+75					12						85	
						25		11				42		24
		99					11						5	
						50		12				83		35
		+50					2						85	
														18
		+89				50		3				106		30
		100					1						30	
						50		2				107		19
		+50					1						86	
						50		2				82		36
		101					1				C-398		3	
						50		11			F-743	6		20
		+50					11				SB-242		3	
						50		31			Roc-1.2	6		10
		102					22				Ex F-494		3	
						50		46				4		15
		+50					28						1	
						50		85				105		25
		103					64						11.2	
		CARRIED FORWARD						177				310		12
		COLUMN FOOTINGS						484		24		1746		154
														959

State of Vermont — Department of Highways

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

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

REVISIONS — By

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PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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	
						50		4	C - 99			54		29
		+85							F - 529					
		106					1		SB - 335		18		16	
						50		2	Fac. - 1.2			31		33
		+50					1		Ex F - 536		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	
									C - 428					
		+60.5				50		37	F - 1314			88		54
									SB - 561					
		111					21		Fac. - 1.2		31		29	
						50		37	Ex F 1149			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			112		39
		116					21		F - 859		58		21	
						50		38	SB - 455			57		39
		+50					20		Fac. - 1.2		4		21	
						50		36	Ex F - 637			55		39
		117					19				55		21	
						15		11				29		12
		+15					19				50		21	
		CARRIED FORWARD						161				384		168
		COLUMN FOOTINGS						909				2660		1152

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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
Fg = +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	
		120				20		16				6		22
						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	
		121				25		57		13				30
						75			0		0		35	
		+24						93	C - 694			33		67
						50			R - 99		36		37	
		+50				25		56	F - 357			44		64
						50			SB 583		11		32	
		122				35		56	Fac. 1.2			35		57
						50			Ex C - 266		27		30	
		+50				26		54				44		55
						50					21		29	
		123				32		58				46		54
						50					29		29	
		+50				31		52				65		54
						50					41		29	
		124				25		52				56		54
						50					19		29	
		+50				31								
		+73						57				33		60
		125				31					17		36	
						50		54				37		62
		+50				27					23		31	
						50		53				46		56
		126				30		60	C - 536		27		30	
						50			F - 605			47		57
		+50				35		55	SB - 575		24		32	
						50			Fac. - 1.2			44		58
		127				24		52	Ex F - 190		23		31	
						50						56		58
		+50				32		49			38		32	
						50						77		56
		128				21		51			45		29	
						50						83		56
		+50				34		64			45		31	
						50						67		58
		129				35		51			27		32	
						50						73		58
		+50				20					52		31	
		CARRIED FORWARD						489		0		530		519
		COLUMN FOOTINGS						1416		99		1362		1389

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

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VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

PROFILE 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.
		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	Exc 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	
						50		57				10		59
		+33												
		+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

PROFILE 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.
		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					32	20	Fac 1.2		11	11	35	41
		+82					18	21	Ex C - 644		7	7	34	23
		145					23	15			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

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GRADES — Computed by — Checked by

PROFILE 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.
		158+50					27				83		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		Foc	1.2	77		39	
						50		40	Ex F	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		Foc	1.2	0		31	
						50		39	Ex C	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+100					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	Foc	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						30				156		46
		+50					15				123		25	
		CARRIED FORWARD						277				290		393
		COLUMN FOOTINGS						1199				1542		1746

PROFILE 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.
		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	
						50		42		11		435		45
		+17												
		+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	Foc	1.2				38
		+50					20		Ex F	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		Foc	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		Foc	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

State of Vermont — Department of Highways

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

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

REVISIONS — By

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VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE: ELEVATION On Grades	PROFILE: 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.
		187					8				6		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	PROFILE: ELEVATION On Grades	PROFILE: 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.
		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			25	
						40		29	F	7	0	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

State of Vermont — Department of Highways

WATERBURY - STOWE — F. ~~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

PROFILE 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.
		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		Foc	12	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		Foc	12	6		29	
						17		17	Ex C	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	Foc	12		124		59
		217					17		Ex F	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		Foc	12	2		29	
						50		89	Ex C	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

PROFILE 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.
		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		Foc	12	0		32	
						50		43	Ex F	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		Foc	12	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		Foc	12	6		31	
						50		62	Ex C	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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE: ELEVATION On Grades	PROFILE: 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.
		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

V.C.	% Grade	STATION	PROFILE: ELEVATION On Grades	PROFILE: 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.
		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		Ex F	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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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	PROFILE ELEVATION On Grades	PROFILE 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.
		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		Ex C	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

State of Vermont — Department of Highways

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

FORM ENG. 1A — EARTHWORK SHEET NO. 20 — 1949

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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	foc	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		foc	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

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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		foc	1.2	40		31	
						50		31	Ex C	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		foc	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	
						488		30	R	34		35		53
		321+488 = 321+570			Eq = -82		19		F	284	3		30	
						43		52	SB	523		2		45
		322					46		foc	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 — Department of Highways

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

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

PROFILE 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	foc 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	0		7	9		46
		+50					18						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						44
		332					27		0		C 463		22	
						42		61		19	R 105			37
		+42					51		25		F 264		25	
						8		14		8	SB 471			7
		+50					44		27		foc 1.2		25	
						50		67		25	ExC 146			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

PROFILE 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		40		18			25	
		+75					34		11		C 581			25
						25		31		10	R 171		28	
		338					32		11		F 107			27
						25		39		20	SB 540		31	
		+25					53		32		foc 1.2			28
						25		55		33	ExC 453		30	
		+50					65		39					28
						25		48		25			31	
		+75					39		16					30
						25		35		14			33	
		339					37		14		0			31
						50		57		13		7	34	
		+50					25		0		7			60
						50		47				9	31	
		340					26				3			58
						50		46				3	32	
		+50					24				0			60
						50		44					33	
		341					24							63
						50		43					35	
		+50					22		C	637				60
						50		54		F 3			30	
		342					36		SB	600				56
						50		77		foc 1.2			31	
		+50					47			ExC 633				67
						50		81					41	
		343					40							67
						50		79					31	
		+50					45							57
						50		76					31	
		344					37							58
						50		69					32	
		+50					38							57
						50		68					30	
		345					35				0			55
						50		76				1	29	
		+50					47				1			53
						50		64				1	28	
		346					22		0		0			48
			C	665		50		53		1		6	24	
		+50	R	186			35		1		6			53
			F	491		50		67		7		20	33	
		347	SB	570			37		7		16			61
			foc	1.2		50		61		15		30	33	
		+50	ExC	76			29		9		16			60
						50		54		14		31	32	
		348					29		6		18			59
						50		81		45		61	32	
		+50					59		43		48			59
						25		41		29		46	32	
		+75					28		19		51			30
						25		41		28		46	32	
		349					60		42		49			29
						35		70		41		85	32	
		+35					48		22		82			41
						15		20		6		43	32	
		+50					23		0		71			18
						50		37				121	32	
		350					17		0		60			59
						50		39		3		103	32	
		+50					25		3		51			59
						25		29		15		45	32	
		+75					37		30		46			30
													32	
CARRIED FORWARD								68		18		148		89
COLUMN FOOTINGS								1722		337		653		1546

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

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

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE ELEVATION On V Curves	PROFILE 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.
		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	Foc.	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	Foc.	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	Foc.	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

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE ELEVATION On V Curves	PROFILE 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.
		365					22				5		26	
						50		45				6		48
		+50				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	Foc.	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				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		Foc.	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	Foc.	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

REVISIONS — By

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PROFILE V.C.	PROFILE % Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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

PROFILE V.C.	PROFILE % Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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

REVISIONS — By

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PROFILE V.C.	PROFILE % Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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		foc	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					10				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	foc	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	foc	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

PROFILE V.C.	PROFILE % Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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		foc	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		foc	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	foc	1.2		19		58
		+50					18		Ex.C	432	12		31	
		439							Project Stops					
		+50												
		440												
		CARRIED FORWARD						—		—				
		COLUMN FOOTINGS						2271		276		241		1486

State of Vermont — Department of Highways

WATERBURY - STOWE — F. No. 116(6)

FORM ENG. 1A — EARTHWORK SHEET NO. 25 — 19

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

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STA 444+00
RESUME GOVERNMENT PARTICIPATION F116(6)

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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				20	17	13	F	7		1		16
		+30							SB	128	0		21	
		+50				10	15	6	Fac	1.2				7
		445							ExC	95	0		19	
		+10				20	17	12				1		15
		+50									1		22	
		446				50	22	36				1		49
		+50									0		31	
		447				10	18	7						10
		+50									0		24	
		448				40	20	28				1		39
		+50									1		28	
		449				50	16	33				3		56
		+50									2		32	
		450				50	23	36				4		58
		+50									2		31	
		451				50	19	39	C	374		6		56
		+50							F	152	2		29	
		452				50	19	35	SB	521		17		54
		+50							Fac	1.2	13		29	
		453				50	21	37	ExC	192		17		53
		+50									5		28	
						50	25	43				36		51
											34		27	
						50	23	44				48		52
											18		29	
						50	18	38				18		48
											1		23	
						50	19	34				2		44
											1		25	
						50	18	34				2		47
											1		26	
						50	17	32				6		48
											5		26	
						50	20	34				22		45
											19		23	
						50	18	35	C	402		59		43
									F	327	45		23	
						50	17	32	SB	514		83		46
									Fac	1.2	45		27	
						50	24	38	ExC	10		72		56
											33		34	
						50	23	44				45		63
											16		34	
		CARRIED FORWARD						249				289		348
		COLUMN FOOTINGS						726				448		997

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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				50		55				11		54
							32				5		29	
		455				50		52				6		54
							24				2		29	
		+50				50		42				2		51
							21				0		26	
		456				50		43				2		51
							25				2		29	
		+50				50		55				4		54
							34				2		29	
		457				50		77	C	540		2		48
							49		F	133	0		23	
		+50				50		94	SB	512				48
							53		Fac	1.2				29
		458				50		75	ExC	380				48
							28							23
		+37				37		32						29
							19				0		20	
		+50				13		9				2		11
		459					20				9		27	
						50		38				38		55
							21				32		32	
		+50				50		36				54		59
							18				26		32	
		460				50		39				29		58
							24				5		31	
		+20				20		10				2		23
							16				0		31	
		+35				15		10						17
							20						31	
		+50				15		12						17
		461					22				0		31	
						50		38				4		57
							19		C	413	4		31	
		+50				50		33	F	326		64		60
							17		SB	573	65		34	
		462				50		36	Fac	1.2		139		65
							22		ExC	2	85		36	
		+50				50		29				93		59
							9				15		28	
		463				50		21				17		51
							14				3		27	
		+50				50		26				5		50
							14				2		27	
		464				50		41				2		51
							30				0		28	
		+50				50		67						58
							42						35	
		465				50		85						65
							50						35	
		+50				50		106						65
							60				0		35	
		466				50		120				2		65
							60				2		35	
		+50				50		107	C	660		37		65
							51		F	613	38		35	
		467				50		66	SB	634		170		65
							20		Fac	1.2	146		35	
		+50				50		41	ExF	76		250		65
							24				124		35	
		468				50		44				134		65
							23				21		35	
		CARRIED FORWARD						484				593		590
		COLUMN FOOTINGS						1590				1090		1641

State of Vermont — Department of Highways

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

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

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE ELEVATION On V Curves	PROFILE 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.
		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		Ex F	814			30	
						10		9						12
		+50					29						34	
						50		52						57
		483					27						28	
		CARRIED FORWARD						248				32		377
		COLUMN FOOTINGS						1222				1146		1966

PROFILE V.C.	PROFILE % Grade	PROFILE STATION	PROFILE ELEVATION On Grades	PROFILE ELEVATION On V Curves	PROFILE 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.
		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		Ex F	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	Ex C	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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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

V.C.	% Grade	STATION	PROFILE ELEVATION On Grades	PROFILE 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.
		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						5	
						50			C	252				9
		+50					0		R	107			5	
						50		9	SB	234				19
		513					10		Ex C	252			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

REVISIONS — By

VOLUMES — Computed by — Checked by

VERTICAL CURVES — Computed by — Checked by

GRADES — Computed by — Checked by

PROFILE 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.
		519					20				23	15	23	21
		+25				25	17	17	0		10		23	
		+50				25	19	17	5	2	0	5	23	21
		+68				18	21	13	5	3			22	15
		520				32	14	21	0	3			18	24
		+40				40	16	22					18	27
		+50				10	15	6					19	7
		+77				27	16	16					18	18
		521				23	16	14					18	15
		+38				38	16	23					18	25
		+50				12	16	7					18	8
		+65				15	16	9					18	10
		+88				23	16	14	C SB Exc	307 339 307			18	15
		522				12	16	7	Fac	1.2			18	8
		+40				40	16	24					18	27
		+50				10	16	6					18	7
		+75				25	16	15					18	17
		523				25	16	15					18	17
		+40				40	16	24					18	27
		+50				10	18	6					18	7
		+75				25	17	16					18	17
		524				25	17	16					18	17
		+25				25	18	16					19	17
		+50				25	18	17					18	17
		+82				32	19	22					19	23
		525				18	18	12					19	13
		+25				25	19	17					20	18
		+50				25	18	17					20	19
		+75				25	18	17					20	19
		526				25	18	17					18	18
		+25				25	18	17					23	19
		+50				25	18	17					21	20
		+75				25	19						19	19
CARRIED FORWARD								119						132
COLUMN FOOTINGS								494		8		20		552

PROFILE 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.
		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	
		530				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	
		533				11		7						7
						25		17					18	
		+25					18						18	
						25		17						17
		+50					18						18	
						25		17						17
		+75					19						18	
		534				25		17						17
							18						18	
		+25				25		17						18
							18						20	
		+57				32		21						23
							18						19	
CARRIED FORWARD								304						315
COLUMN FOOTINGS								515						540

VERMONT AGENCY
TRANSPORTION
PHASE-III INTERSTATE

HANGER 4443

1950 Waterbury – Stowe
F 116(6) 1950