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- 65 REINFORCING STEEL SCHEDULE
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- 67-71 CHANNEL SECTIONS
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STANDARD STRUCTURE SHEET APPROVED BY THE CHIEF ENGINEER
VERMONT STATE DEPARTMENT OF HIGHWAYS.

S 40 JUNE 10, 1950

MP 3.220

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

SECONDARY PROJECT

TOWN OF WARREN

COUNTY OF WASHINGTON

GRANVILLE WOODS-WAITSFIELD ROAD

VERMONT ROUTE 100

BEGINNING AT A POINT APPROXIMATELY 16,516.6 FEET SOUTHWESTERLY OF THE
WAITSFIELD-WARREN TOWN LINE AND EXTENDING NORTHEASTERLY 14,173.6 FEET

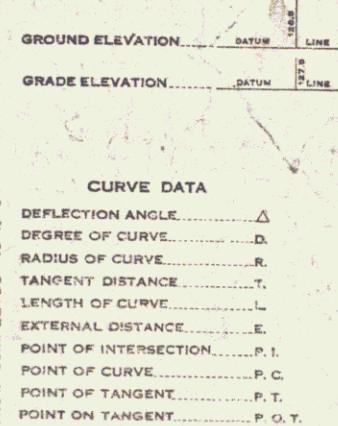
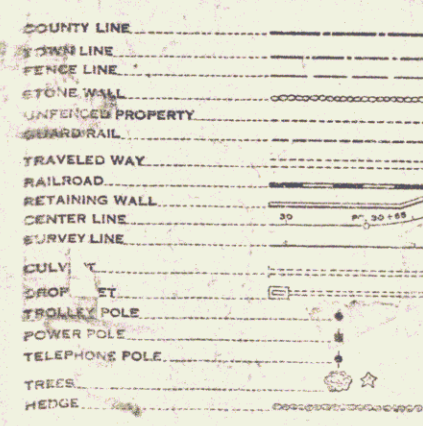
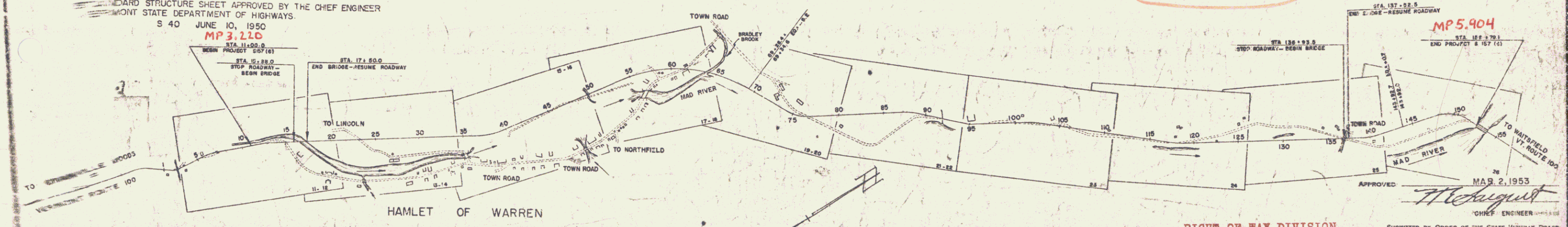
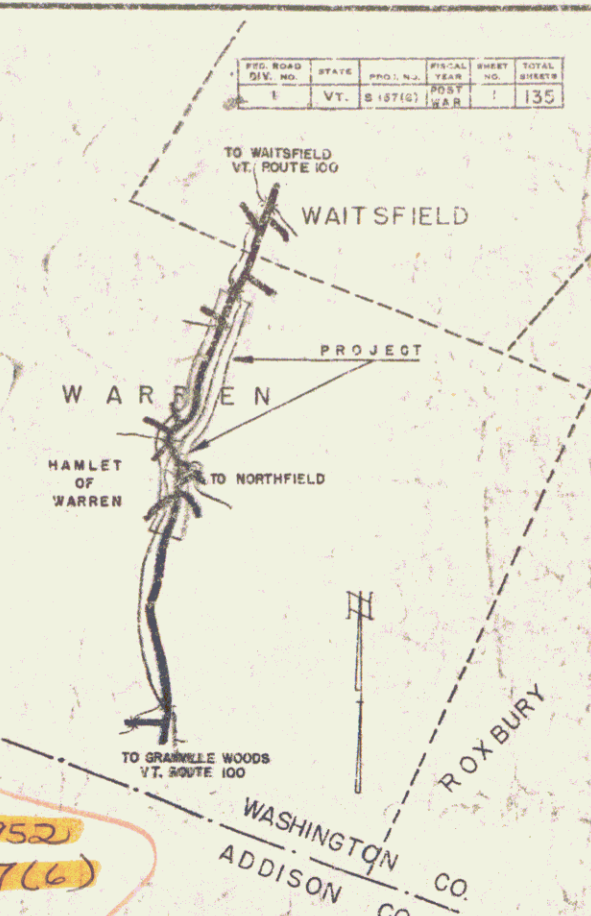
LENGTH OF ROADWAY 13,952.6 FT. = 2.642 MILES

LENGTH OF BRIDGES 221.0 FT. = 0.042 MILE

LENGTH OF PROJECT 14,173.6 FT. = 2.684 MILES

U.S.G.S. MAP REFERENCE
LINCOLN MOUNTAIN QUADRANGLE
W 72° 52' N 44° 07'
SCALE 1" = 1 MILE

DATE: 12/18/1952
PROJECT: S 157(6)
PIN: 100R620



SCALES

TITLE	1" = 500'
TYPICAL	1" = 2'
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 5'
PROFILE VERTICAL	1" = 10'
CROSS SECTIONS	1" = 5'

PROJECT NAME & NUMBER	WARREN S 157 (6)	TYPE	MIP SURF. CRSE	PAVEMENT AREA	33049 S.Y.
RECORD PLANS					
MATERIALS					
SUB-BASE OF GRAVEL	BROOKS PIT WARREN	REINF. STEEL	VT. STRUCT. STEEL CO., BURLINGTON		
	KING'S GRAVEL BAR, WAITSFIELD	RCP	VT. CONG. PIPE CORP., WINDSOR		
CR. GRAVEL	BASS CORP. PLANT, WAITSFIELD	ACCOMP	NEW ENG. MET. CULV. CO., BOSTON, MASS.		
STRUCT. STEEL	BETHLEHEM ST. CO., BETHLEHEM, PA.	CABLE FOR G.R.	AM. ST. & WIRE CO., NEW HAVEN, CONN.		
CUTBACK ASPHALT	SOC. VACUUM, E. PROV. R.I.	GUARD RAIL PAINT	FRANKLIN PAINT CO., FRANKLIN, MASS. & BRADLEY LABS., BRATTLEBORO		
CEMENT	LOVE STAR PORT. CEM. CO., HUDSON, N.Y.				
CONTRACTOR	LAMBERT CONST. CO. INC.	CONTRACT DATED	MAY 1, 1953		
RESIDENT ENCR.	A. GRAHAM	CONTRACT STARTED	MAY 11, 1953		
INSPECTORS	L. LAVIN	CONTRACT COMPLETED	OCTOBER 19, 1954		
RECORD PLANS	L. LAVIN	CONTRACT ACCEPTED	OCTOBER 19, 1954		

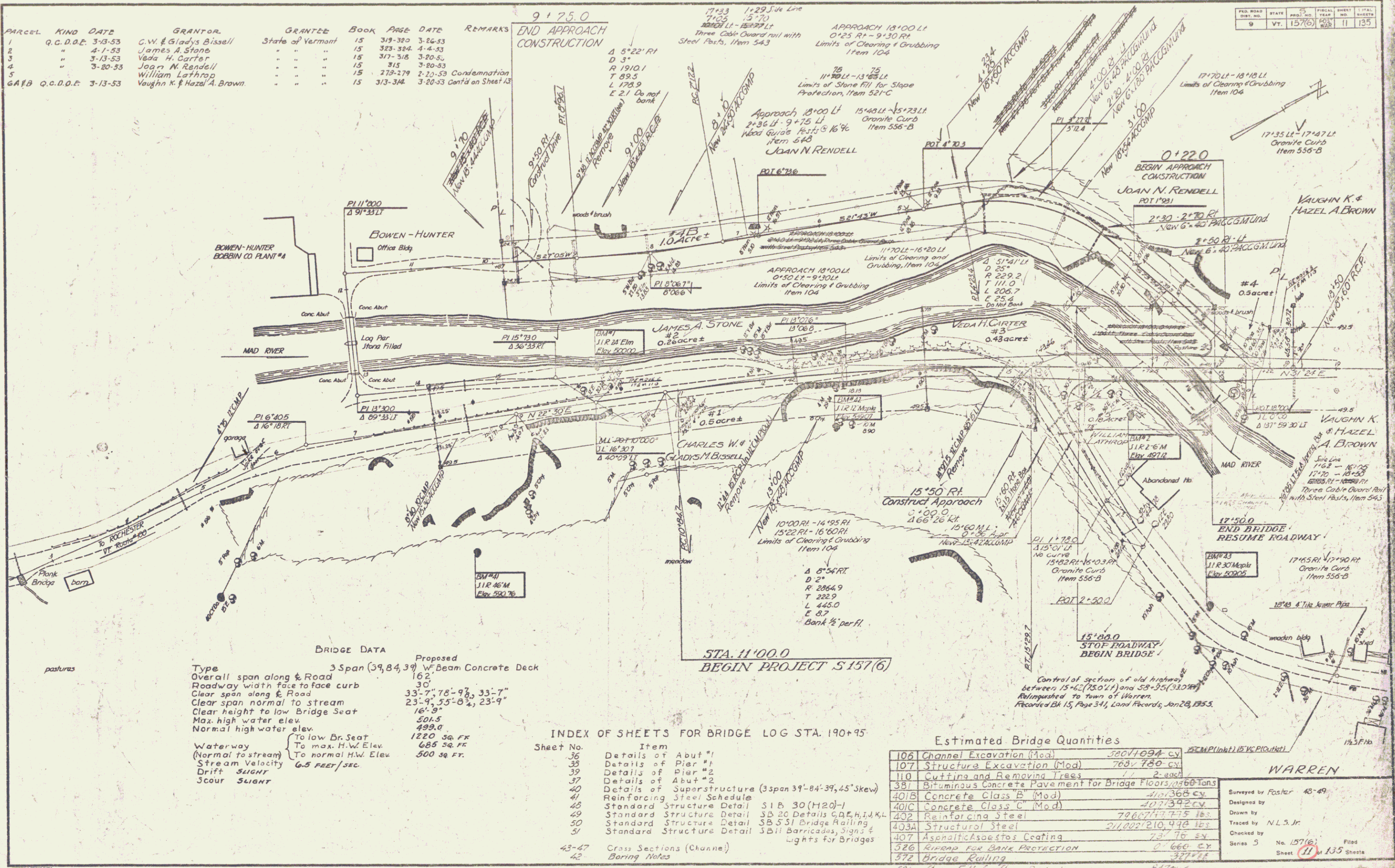
RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Town of Ut Rte 100 MA 3.22 - 5.90
(To Be Returned To R.O.W. Division)

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.

APPROVED	APPROVED	APPROVED	APPROVED	PROJECT S No. 157(6) FILED
CONSTRUCTION ENGINEER	SECONDARY ENGINEER	BRIDGE ENGINEER	HIGHWAY ENGINEER	SHEET 1 OF 135

PARCEL	KIND	DATE	GRANTOR	GRANTEE	BOOK	PAGE	DATE	REMARKS
1	Q.C.D.O.E.	3-13-53	C.W. & Gladys Bissell	State of Vermont	15	319-320	3-26-53	
2	"	4-1-53	James A. Stone	"	15	323-324	4-4-53	
3	"	3-13-53	Veda H. Carter	"	15	317-318	3-20-53	
4	"	3-20-53	Joan N. Rendell	"	15	315	3-20-53	
5	"	3-20-53	William Lathrop	"	15	279-279	2-20-53	Condemnation
GAFB	Q.C.D.O.E.	3-13-53	Vaughn K. & Hazel A. Brown	"	15	313-314	3-20-53	Cont'd on Sheet 13

PROJ. NO.	STATE	SHEET NO.	TOTAL SHEETS
157(6)	VT.	11	135



BRIDGE DATA

	Proposed
Type	3 Span (39, 84, 39) W-Beam Concrete Deck
Overall span along E Road	162'
Roadway width face to face curb	30'
Clear span along E Road	33'-7", 78'-9", 33'-7"
Clear span normal to stream	23'-9", 55'-0", 23'-9"
Clear height to low Bridge Seat	16'-9"
Max. high water elev.	501.5
Normal high water elev.	498.0
Waterway (Normal to stream)	To low Br. Seat 1220 sq. ft.
Stream Velocity	To max. H.W. Elev. 685 sq. ft.
Drift	6.5 FEET/SEC.
Scour	SLIGHT

INDEX OF SHEETS FOR BRIDGE LOG STA. 190+95

Sheet No.	Item
36	Details of Abut #1
37	Details of Pier #1
38	Details of Abut #2
39	Details of Pier #2
40	Details of Superstructure (3span 39'-84'-39', 45' Skew)
41	Reinforcing Steel Schedule
42	Standard Structure Detail S1 B, 30 (H20-1)
43	Standard Structure Detail S1 B, 20 Details C, D, E, H, J, K, L
44	Standard Structure Detail S1 B, S1 Bridge Railing
45	Standard Structure Detail S1 B, 11 Barricades, Signs & Lights for Bridges
43-47	Cross Sections (Channel)
48	Boring Notes

Estimated Bridge Quantities

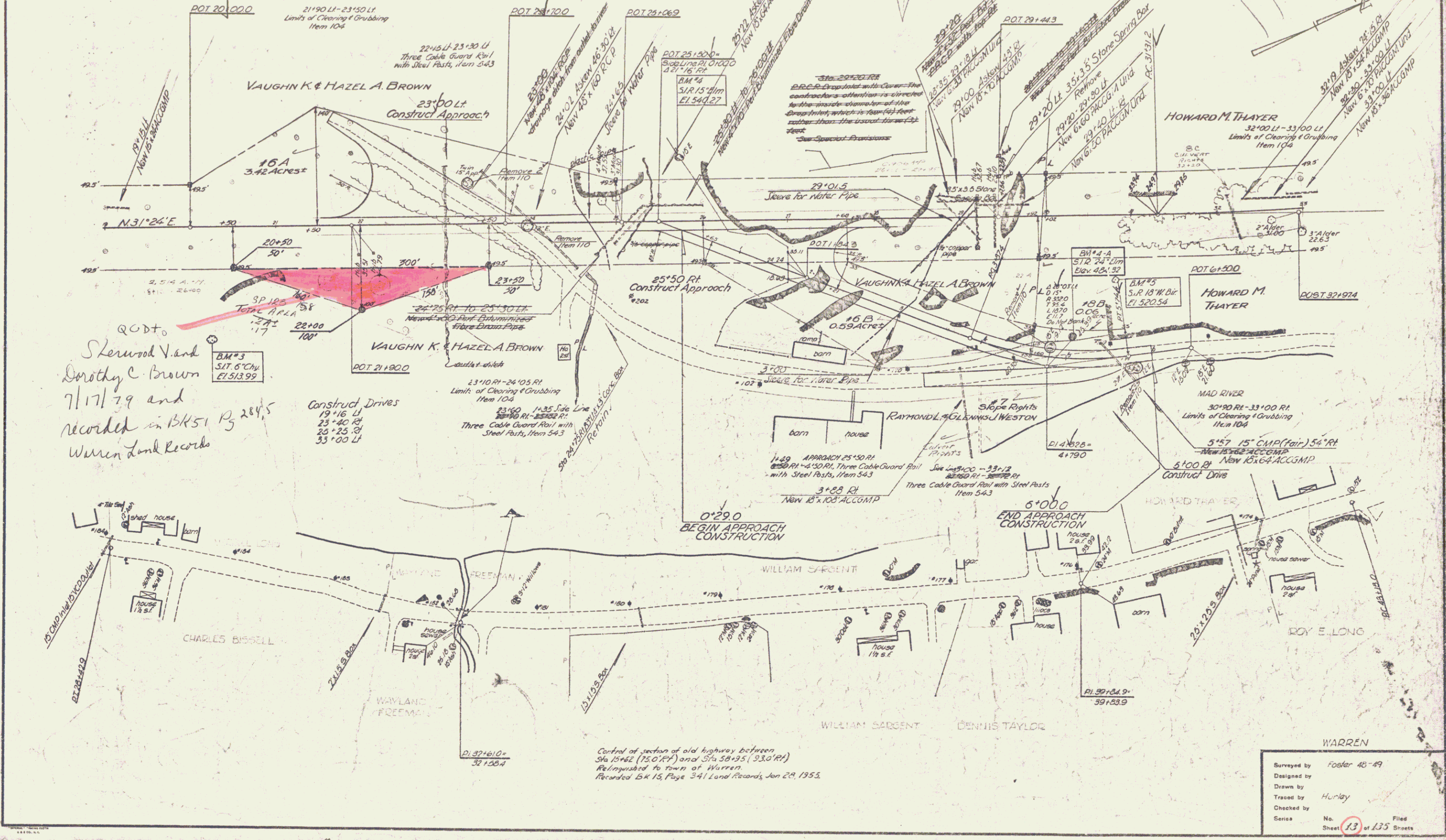
106	Channel Excavation (Mod)	52071094 cy
107	Structure Excavation (Mod)	760 780 cy
110	Cutting and Removing Trees	1 / 2 each
381	Bituminous Concrete Pavement for Bridge Floors, 1460 Tons	
401B	Concrete Class B (Mod)	4101368 cy
401C	Concrete Class C (Mod)	4071342 cy
402	Reinforcing Steel	79667147.75 lbs
403A	Structural Steel	2110221210.44 lbs
407	Asphaltic Asbestos Coating	73 76 sq
526	RIPRAP FOR BANK PROTECTION	0 666 cy
572	Bridge Railing	37776
571	Stone Fill for Slope Protection	8479

WARREN

Surveyed by Foster 48-49
 Designed by
 Drawn by
 Traced by N.L.S.Jr.
 Checked by
 Series 5 No. 157(6) Filed
 Sheet 11 of 135 Sheets

PARCEL	KIND	DATE	GRANTOR	GRANTEE	BOOK	PAGE	DATE	REMARKS
72	W.D.O.E.	3-13-53	Raymond L. & Glennia J. Weston	State of Vermont	15	308-309	3-10-53	Slope Rights
73	W.D.O.E.	8-18-53	"	"	15	333	8-21-53	Culvert
BA4B	Q.C.D.O.E.	4-7-53	Howard M. Thayer	"	15	327-328	4-11-53	A continued on Sheet 15.
A	W.D.O.E.	10-17-51	Wayland D. & Nellie G. Freeman	"	22	419	10-22-51	Culvert Rts & Slope Rts on Old Road.

FIELD NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	Vt.	157(6)	13	135

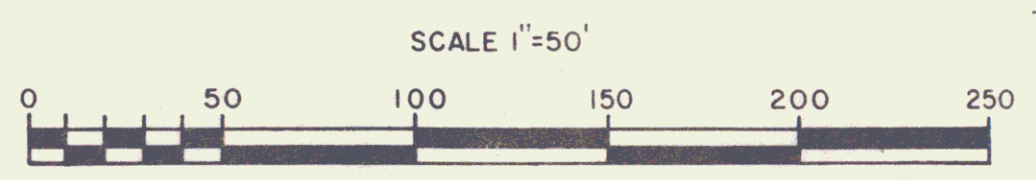
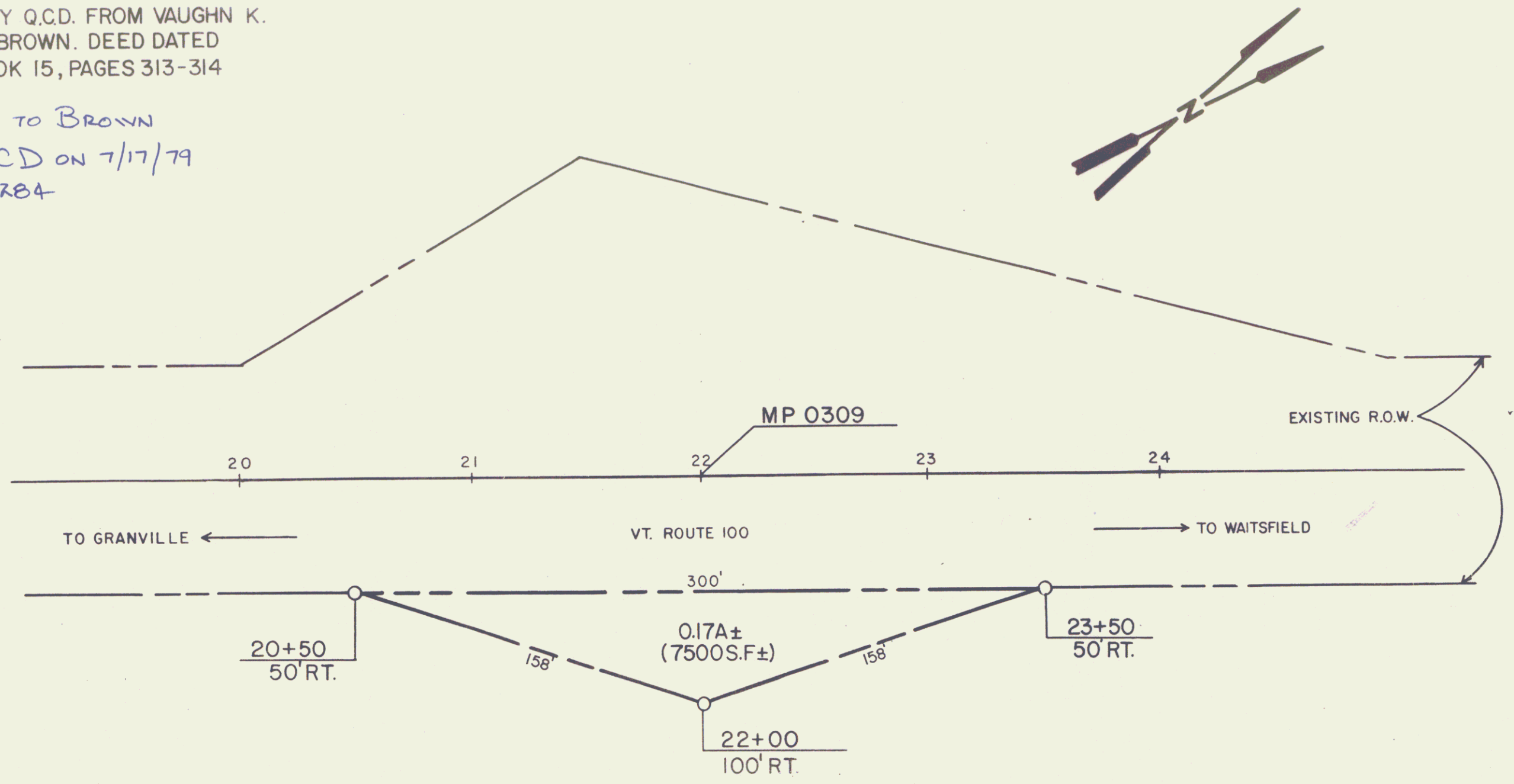


Sterwood V. and
Dorothy C. Brown
7/17/79 and
recorded in BK 51, P. 284, 5
Warren Land Records

Control of section of old highway between
Sta 15+62 (75.0' RT) and Sta 58+95 (33.0' RT)
Relinquished to town of Warren.
Recorded BK 15, Page 341 Land Records, Jan 20, 1955.

ACQUIRED BY Q.C.D. FROM VAUGHN K.
 & HAZEL K. BROWN. DEED DATED
 3-20-53 BOOK 15, PAGES 313-314

ST. OF VT TO BROWN
 BY QCD ON 7/17/79
 IN BK 51/284



REF: PAGE 13 OF 135

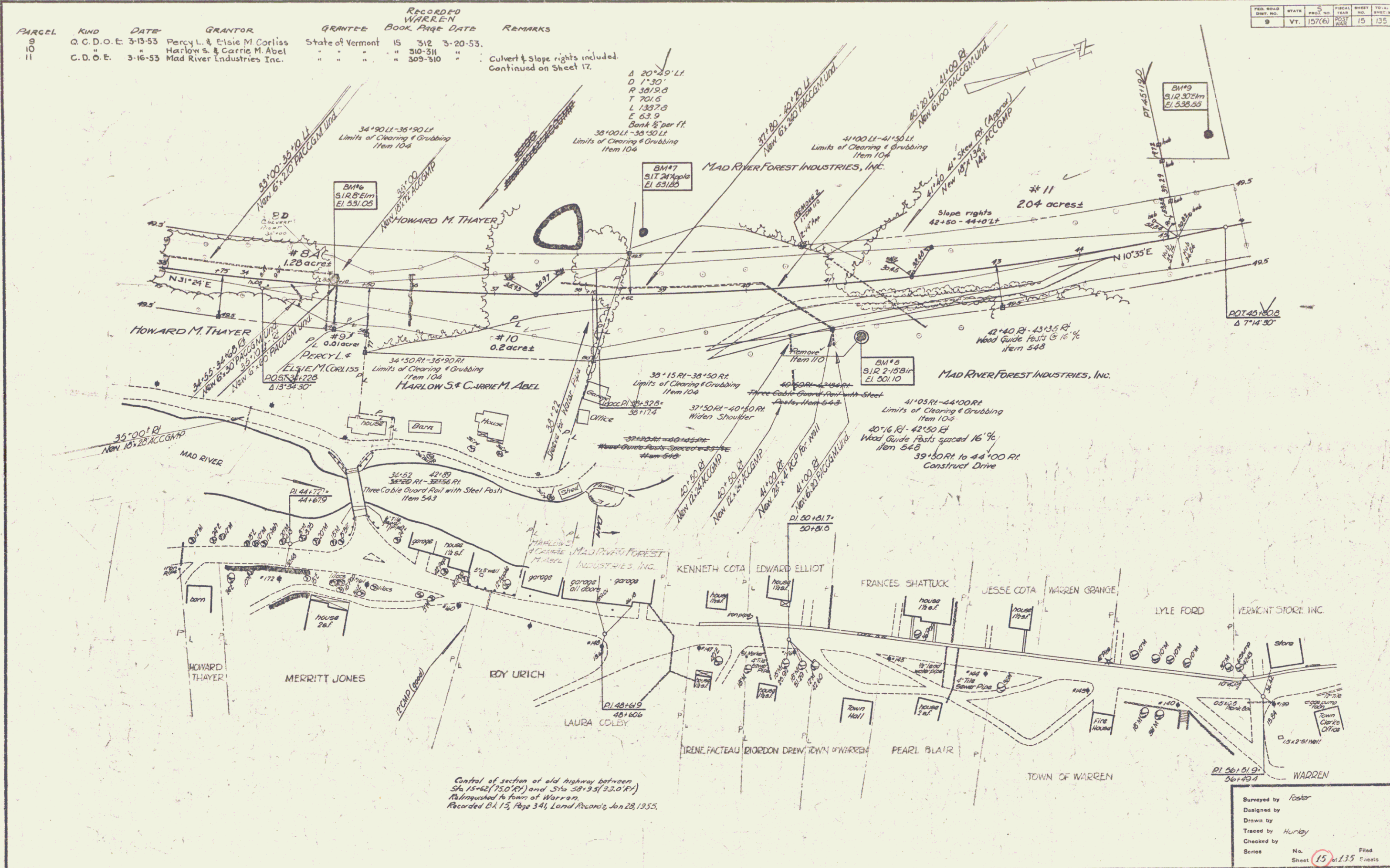
SHEET 13A

STATE OF VERMONT AGENCY OF TRANSPORTATION		
TOWN OF WARREN		
PROJECT	S157 (6)	4
APPROX SCALE 1"=	50'	DATE 5-28-79
		DRAWN BY D. O'NEWHALL

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PARCEL	KIND	DATE	GRANTOR	GRANTEE	BOOK	PAGE	DATE	REMARKS
9	O.C.D.O.E.	3-13-53	Percy L. & Elsie M. Corliss	State of Vermont	15	312	3-20-53.	
10	"	"	Harlow S. & Carrie M. Abel	"	"	310-311	"	
11	C.D.O.E.	3-16-53	Mad River Industries Inc.	"	"	309-310	"	Culvert & Slope rights included. Continued on Sheet 17.

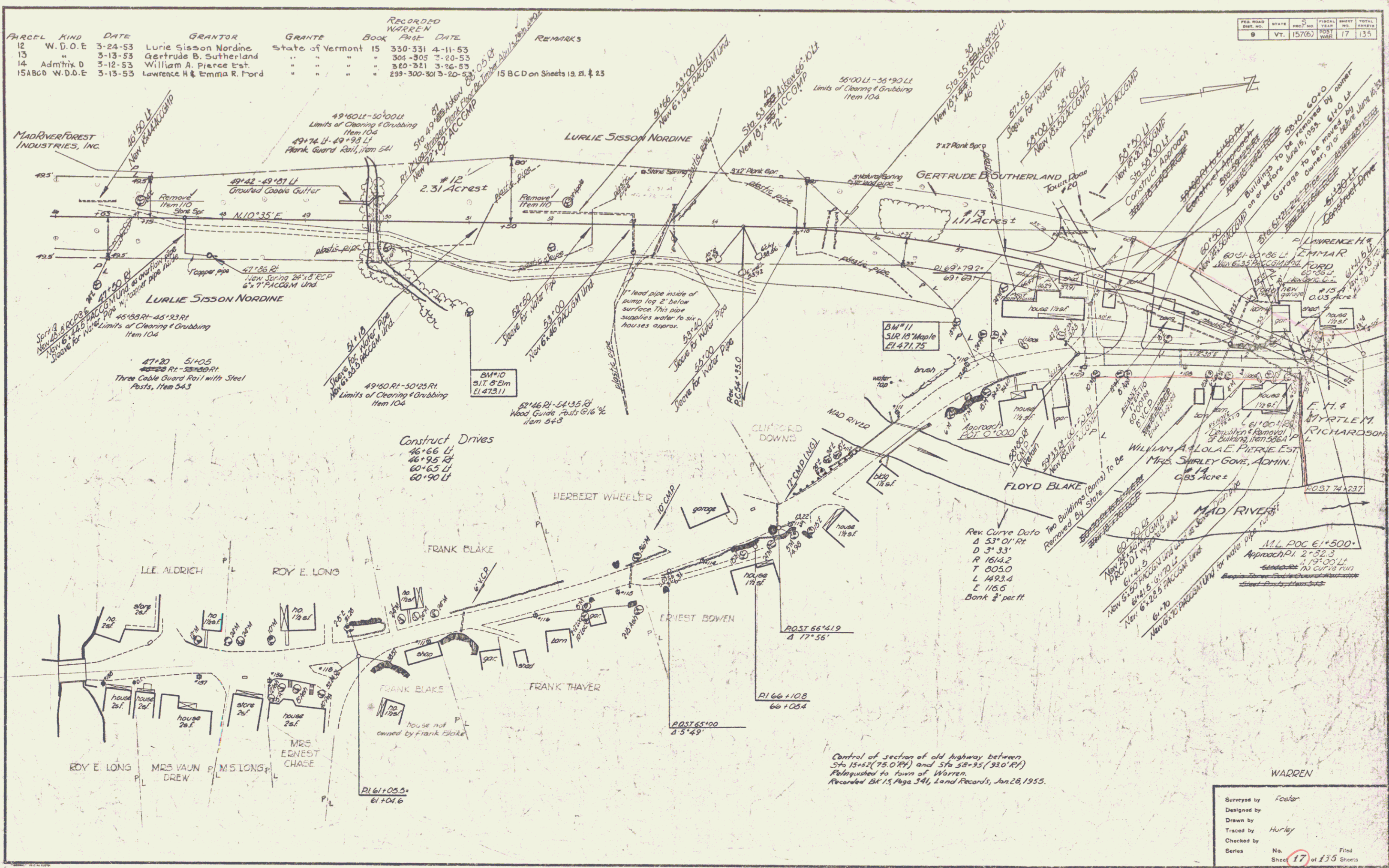
FED. ROAD DIST. NO.	STATE	PROJECT NO.	SURVEY YEAR	SHEET NO.	TOTAL SHEETS
9	Vt.	157(6)	1953	15	135



Surveyed by Foster
 Designed by
 Drawn by
 Traced by Hurley
 Checked by
 Series No. 15 of 135 Filed
 Sheet 15 of 135

PARCEL KIND	DATE	GRANTOR	GRANTEE	BOOK	PAGE	DATE	REMARKS
12	W. D. O. E.	Lurie Sisson Nordine	State of Vermont	15	330-331	4-11-53	
13	"	Gertrude B. Sutherland	"	"	304-305	3-20-53	
14	Adm'trix D	William A. Pierce Est.	"	"	320-321	3-26-53	
15	ABCO W. D. O. E.	Lawrence H & Emma R. Ford	"	"	299-300-301	3-20-53	IS BCD on Sheets 13, 21, & 23

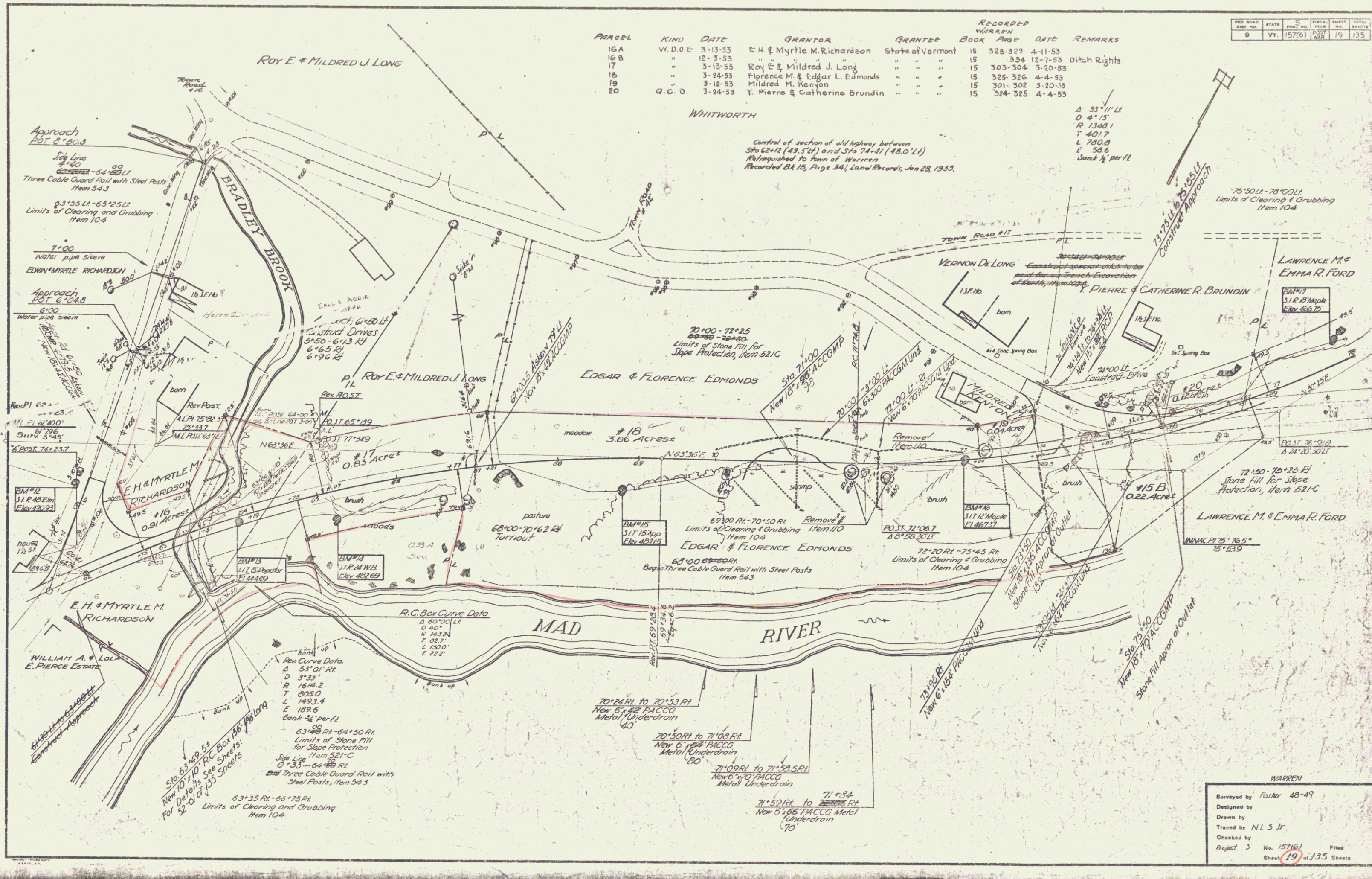
FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	Vt.	157(6)	17	135



Surveyed by Foster
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 Traced by Hurley
 Checked by
 Series No. 17 of 135 Sheets

PARCEL	KIND	DATE	GRANTOR	GRANTEE	RECORDED WARREN BOOK	PAGE	DATE	REMARKS
16A	W.D.O.E.	3-13-53	E.H. & Myrtle M. Richardson	State of Vermont	15	328-329	4-11-53	
16B	"	12-3-53	"	"	15	324	12-7-53	Ditch Rights
17	"	3-13-53	Roy E. & Mildred J. Long	"	15	303-304	3-20-53	
18	"	3-24-53	Florence M. & Edgar L. Edmonds	"	15	325-326	4-4-53	
19	"	3-12-53	Mildred M. Kenyon	"	15	301-302	3-20-53	
20	G.C.D.	3-24-53	Y. Pierre & Catherine Brundin	"	15	324-325	4-4-53	

FED. ROAD DIST. NO.	STATE	C	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	Vt.	157(6)	1953	19	135

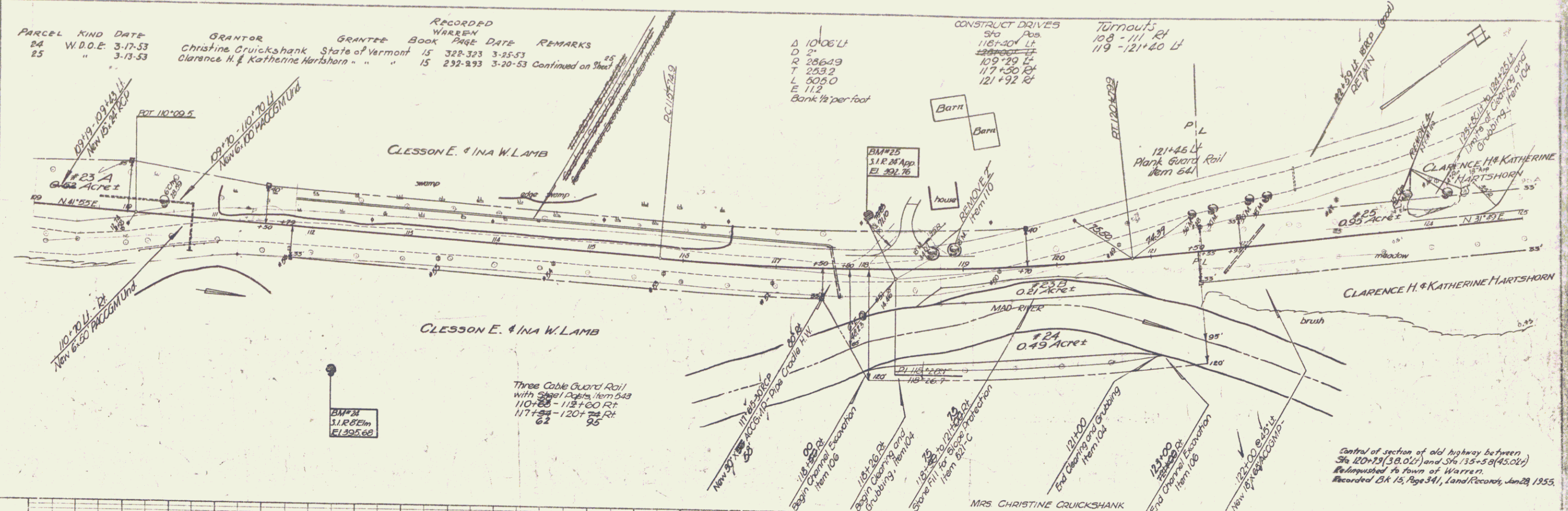


PARCEL KIND DATE GRANTOR GRANTEE BOOK PAGE DATE REMARKS
 24 W.D.O.E. 3-17-53 Christine Cruickshank State of Vermont 15 322-323 3-25-53
 25 " 3-13-53 Clarence H. & Katherine Hartshorn " " 15 292-293 3-20-53 Continued on Sheet 25

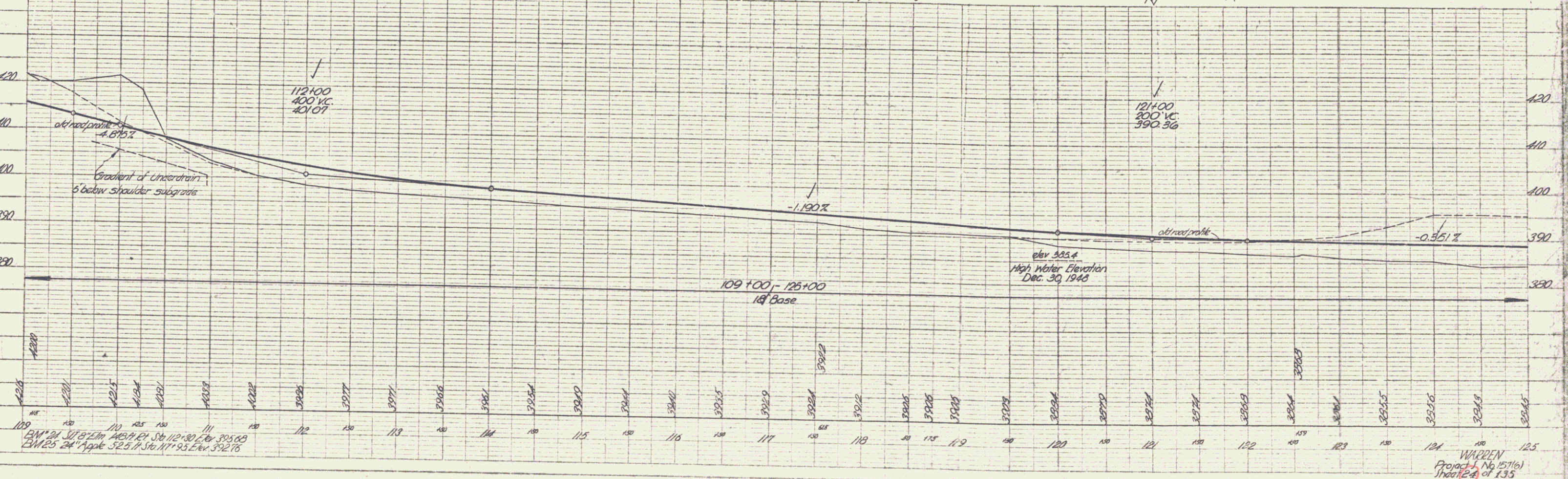
CONSTRUCT DRIVES
 STA Pos
 1161+20 LF
 1167+20 LF
 1171+20 LF
 1177+50 LF
 121+92 LF

Turnouts
 108 - 111 Rt
 119 - 121+40 Lt

PLAN
 DATE 3-27-53
 DRAWN BY F. BOUQUIN
 CHECKED BY J. BOUQUIN
 SCALE 1" = 40'

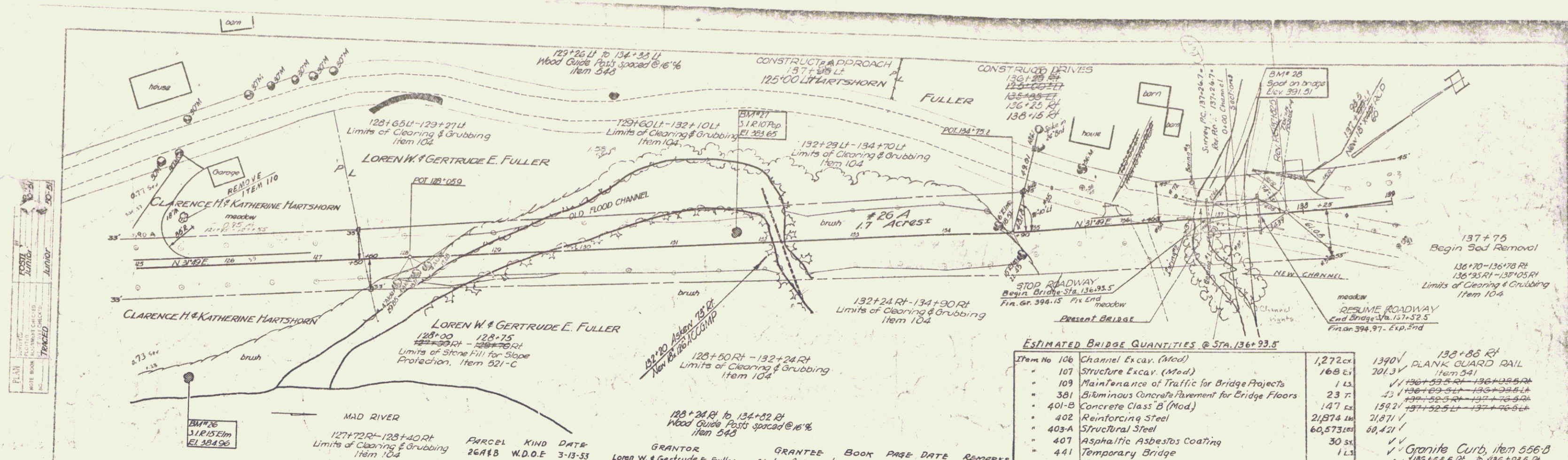


PROFILE
 DATE 3-27-53
 DRAWN BY F. BOUQUIN
 CHECKED BY J. BOUQUIN
 SCALE 1" = 40'



Center of section of old highway between
 Sta 120+15 (58.02') and Sta 135+50 (45.02')
 Relinquished to town of Warren.
 Recorded BK 15, Page 341, Land Records, Jan 28, 1955.

WARREN
 Project No. 571(6)
 Sheet 24 of 135



PLAN
 DATE
 DRAWN BY
 CHECKED BY
 SCALE
 SHEET NO.

Control of section of old highway between
 Sta 120+73 (38.024) and Sta 135+50 (45.024)
 Relinquished to town of Warren
 Recorded BK 15, Page 341, Land Records, Jan 28, 1955.

BRIDGE DATA

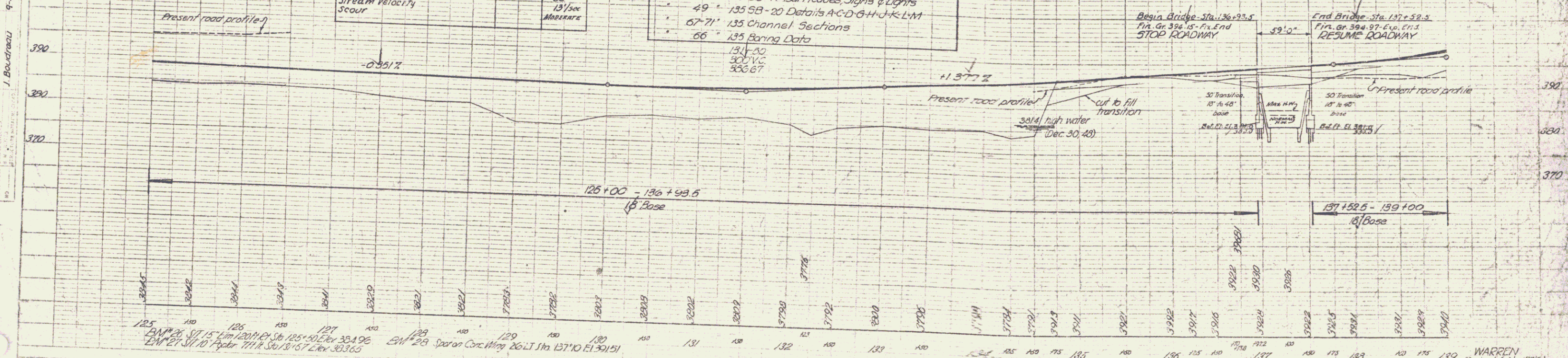
	Present	Proposed
Overall Span along Road	20'	30.0'
Roadway face to face Curb	21'	33.0'
Clear Span along Roadway	21'	33.0'
Clear Span Normal to Stream	10.2'	21'
Clear Height to Low Bridge Seat	10.2'	21'
Clear Height to High Bridge Seat	10.2'	21'
Max. High Water Elevation	385.0	385.0
normal High Water Elevation	384.0	384.0
Water way To Low Br. Seat	18.0'	26.5'
To Max. H.W. Elev.	26.5'	35.0'
To Normal H.W. Elev.	26.5'	35.0'
Stream Velocity	13/sec	13/sec
Scour	None	None

INDEX OF SHEETS - BRIDGE at Sta 136+93.6

Sheet 02 of 135 Details Abutment #1
03 - 135 Details Abutment #2
04 - 135 Details Superstructure (Sq Bridge 39'-0")
05 - 135 Schedule of Reinforcing Steel
06 - 135 SB-5-5-1 Bridge Railing
07 - 135 SB-11 Barricades Signs & Lights
08 - 135 SB-20 Details A-C-D-E-H-J-K-L-M
09 - 135 Channel Sections
10 - 135 Boring Data

ESTIMATED BRIDGE QUANTITIES @ Sta. 136+93.6

Item No 106 Channel Excav. (Mod)	1,272 cu
107 Structure Excav. (Mod)	1390
109 Maintenance of Traffic for Bridge Projects	1 LS
301 Bituminous Concrete Pavement for Bridge Floors	23 sq
401-B Concrete Class B (Mod)	147 cu
402 Reinforcing Steel	21,874 lbs
403-A Structural Steel	60,573 lbs
407 Asphaltic Asbestos Coating	30 sq
441 Temporary Bridge	1 LS
442 Removal of Present Superstructure	1 LS
501 Furnishing Equipment for Driving Piles	1 LS
502-A Untreated Timber Piling	1600 LF
502-A-1 Cutoffs for Timber Piling	14.6 LF
502-C Metal Shoes for Timber Piling	40 EA
526 Riprap for Bank Protection	260 cu
572 Bridge Railing	123 LF
571 Stone Fill for Slope Protection	0 cu

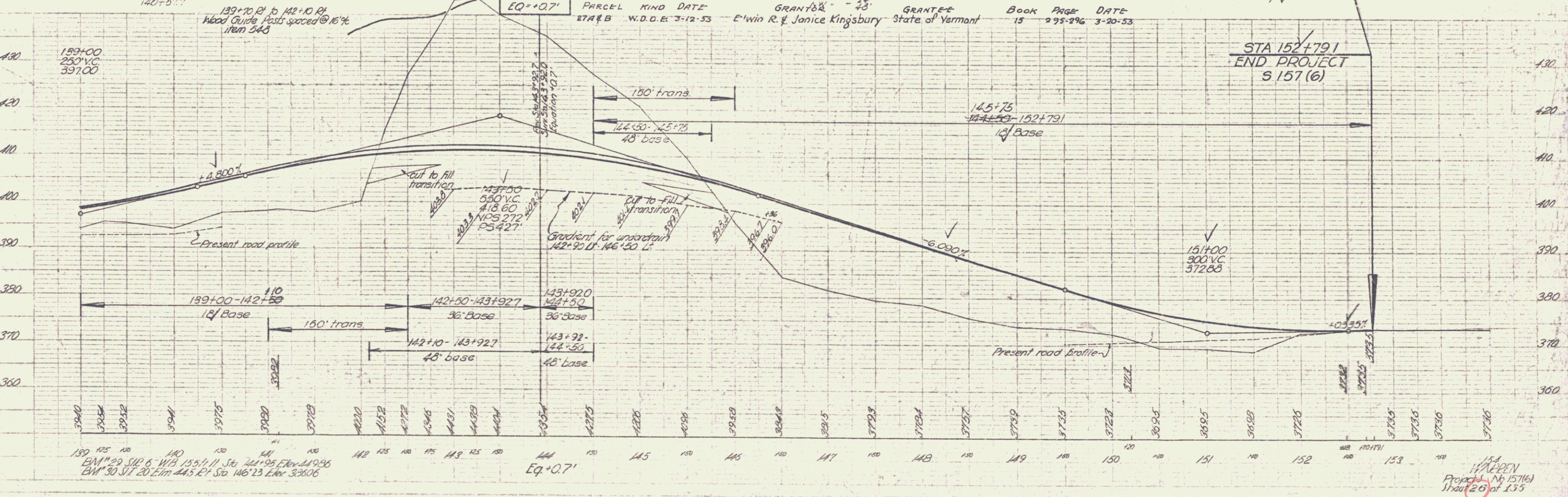
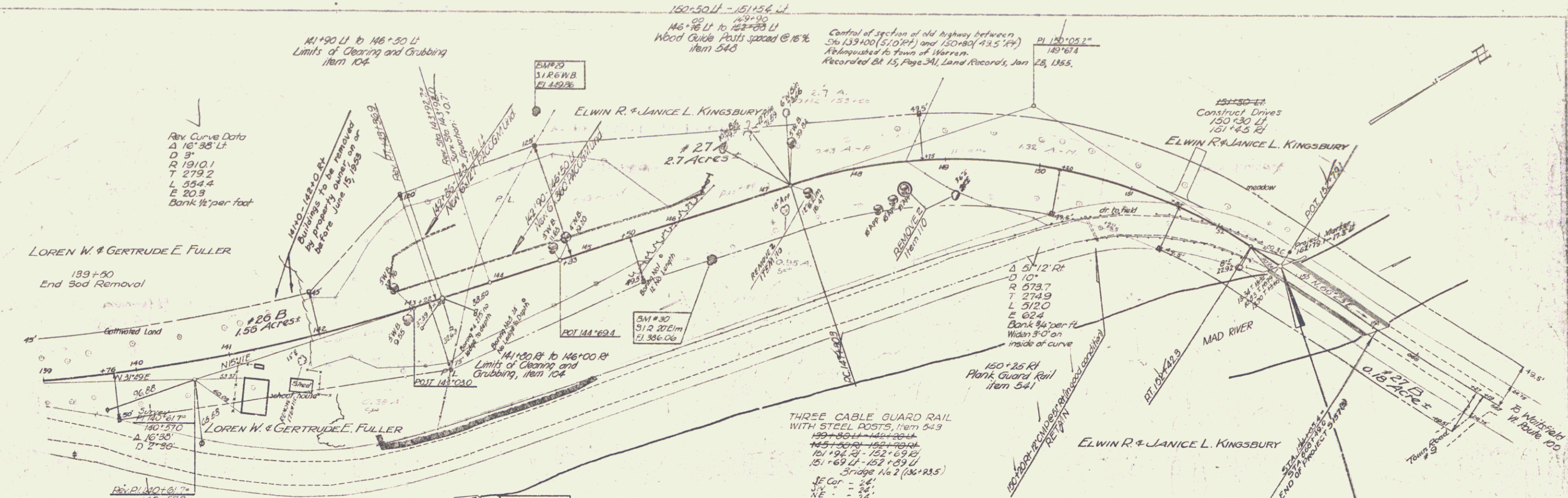


PROFILE
 DATE
 DRAWN BY
 CHECKED BY
 SCALE
 SHEET NO.

Control of section of old highway between
 Sta 120+73 (38.024) and Sta 135+50 (45.024)
 Relinquished to town of Warren
 Recorded BK 15, Page 341, Land Records, Jan 28, 1955.

WARREN
 Project No 157(6)
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159+00
 250' VC
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151+00
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154
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 Project No 157164
 Sheet 20 of 23