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

**STATE OF VERMONT
DEPARTMENT OF HIGHWAYS**

PROPOSED IMPROVEMENT

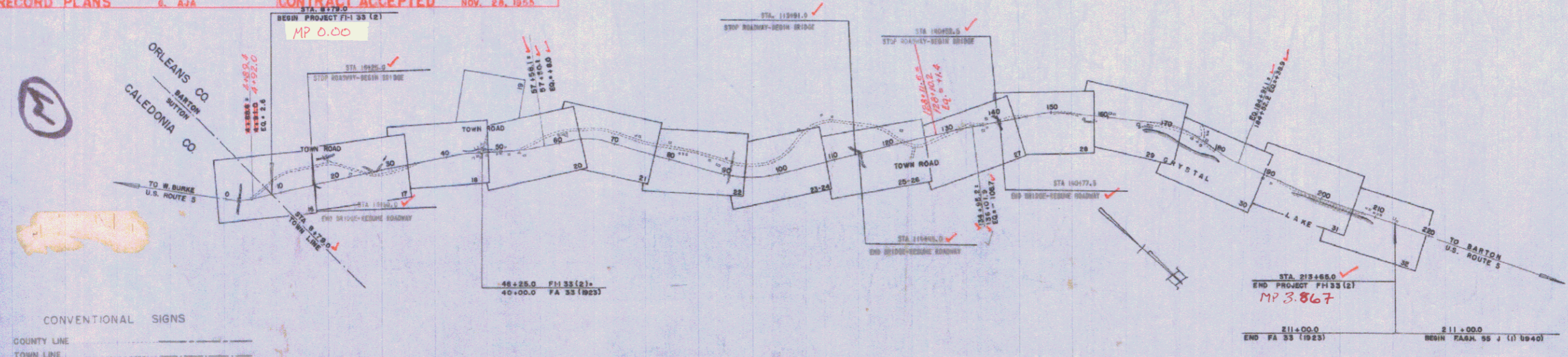
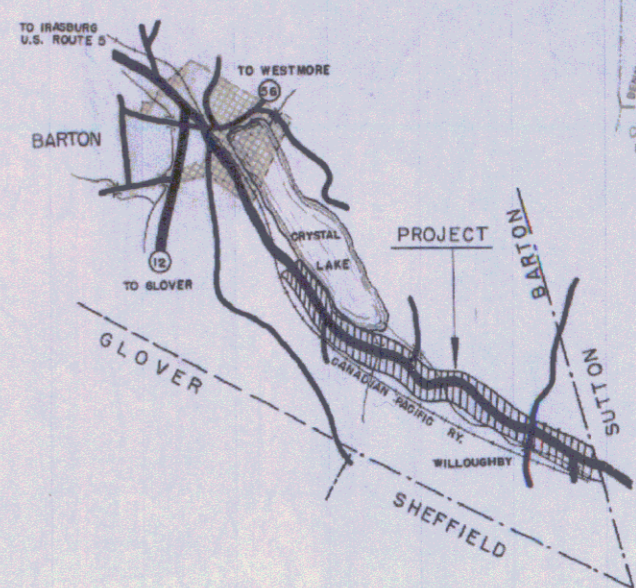
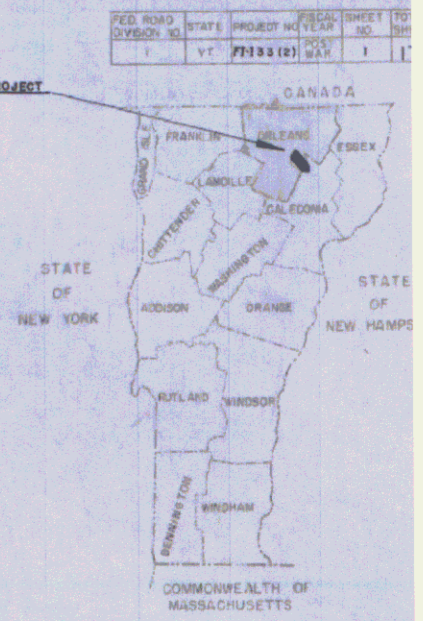
FEDERAL INTERSTATE PROJECT

TOWN OF BARTON
COUNTY OF ORLEANS
U.S. ROUTE 5
W. BURKE - BARTON ROAD

BEGINNING AT THE SUTTON-BARTON TOWN LINE AND EXTENDING NORTHWESTERLY **20,426.2** FEET (INCLUDING BRIDGES)

LENGTH OF ROADWAY **20,322.0** = 3.849 MILES
 LENGTH OF BRIDGES 104.0 = 0.019 MILE
 LENGTH OF PROJECT **20,426.2** = 3.868 MILES

PROJECT NAME & NUMBER	TYPE	PAVEMENT AREA
BARTON FI-1-33 (2)	HOT MIX MACADAM	65,709 S.Y.
RECORD PLANS MATERIALS		
SUB-BASE OF GRAVEL PARIS PIT, GLOVER	REINF. STEEL J.T. RYERSON & SONS, CAMBRIDGE, MASS.	
CR. GRAVEL PARIS PIT, GLOVER	R.C.P. VT. CONC. PIPE CORP., WINDSOR	
REFINED TAR BARRETT CO., HALDEN, MASS.	A.C.C.G.M.R. BERGER MET. CULV. CO., WESTMINSTER STA.	
CTBK. ASPHALT SOC. VACUUM, E. PROV. S.I.	G.R. CABLE AM. STEEL & WIRE CO. NEW HAVEN, CONN.	
CEMENT LONE STAR BRAND, HOUSTON, TEX.	G.R. PAINT WARNER BRISWOLD CORP., ESSEX JCT.	
CONC. AGG. MADEAU PL., JOHNSON	MACADAM AGG. CAULKINS PL., COVENTRY	
PEN. ASPHALT AM. RETUMILES CO., E. PROV. S.I.	6" UNDERDRAIN H.E. METAL CULV. CO., BOSTON, MASS.	
CONTRACTOR H. J. O'CONNELL, LTD.	CONTRACT DATED MAY 14, 1954	
RESIDENT ENGR. E. GLYSSON	CONTRACT STARTED MAY 24, 1954	
INSPECTORS T. RAMBOUR	CONTRACT COMPLETED NOV. 29, 1955	
RECORD PLANS G. A.J.R.	CONTRACT ACCEPTED NOV. 29, 1955	



CONVENTIONAL SIGNS

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

CURVE DATA

DEFLECTION OF ANGLE	D
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.
POINT ON SUB-TANGENT	P.O.S.T.

SCALES

TITLE	1" = 1000'
TYPICAL	1" = 250'
PLAN	1" = 500'
PROFILE HORIZONTAL	1" = 100'
PROFILE VERTICAL	1" = 10'
CROSS-SECTIONS	1" = 5'

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 CONTRACTOR ENGINEER DATE	APPROVED MARCH 29 1954 DISTRICT ENGINEER DATE	APPROVED MARCH 19 1954 PROJECT ENGINEER DATE	APPROVED MARCH 19 1954 DATE	APPROVED M.B. LAQUITT DATE	PROJECT FI-1-33 (2)
-----------------------------------------	--------------------------------------------------------	-------------------------------------------------------	-----------------------------------	----------------------------------	------------------------

Pin # 99R293

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED _____
DISTRICT ENGINEER

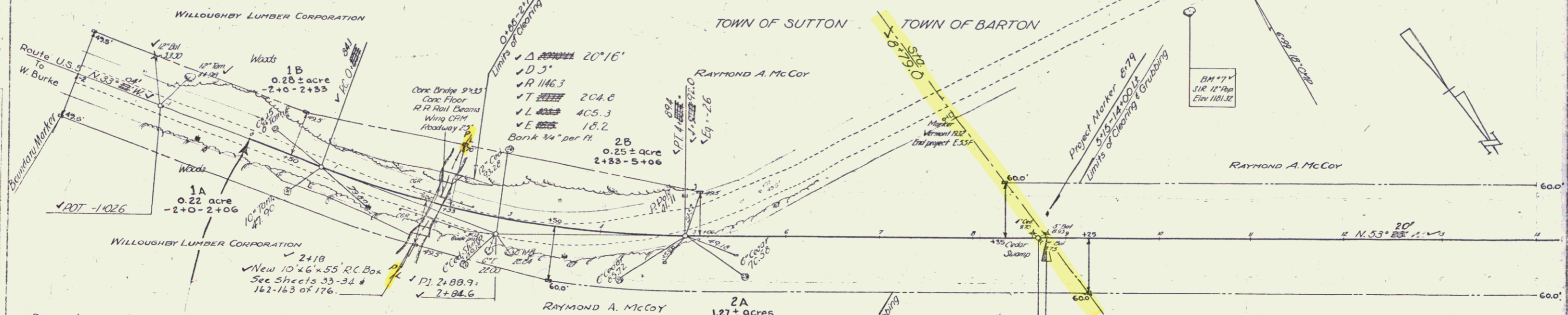
DATE _____

REMOVAL AND DISPOSAL OF PRESENT GUARD RAIL
 LT 1186-2+16
 RT 1170-2+09
 2+275-2+58
 2+195-2+50

EXCAVATION & REMOVAL OF ROAD SURFACE ON DISCONTINUED HIGHWAYS
 5+20 LT-14+00

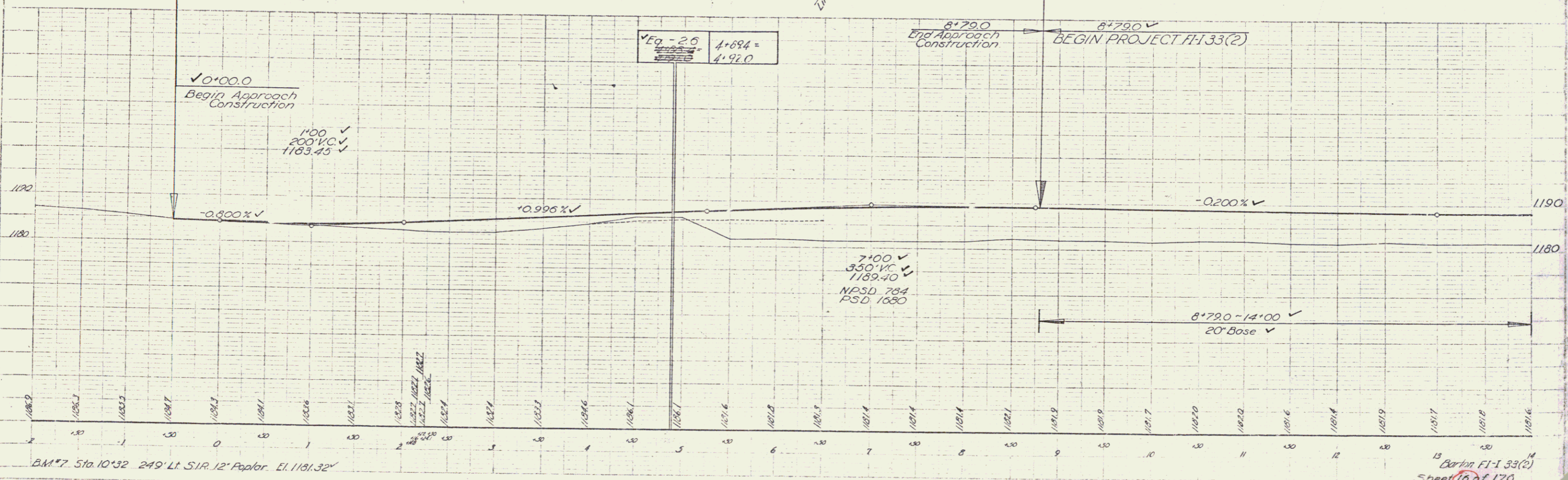
COUNTY OF CALEDONIA
 TOWN OF SUTTON
 COUNTY OF ORLEANS
 TOWN OF BARTON

THREE CABLE GUARD RAIL WITH STEEL POSTS
 LT 1130-2+00
 RT 1130-2+190
 1+70-2+83
 1+40-3+06



PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	TOWN	BOOK	PAGE	DATE	REMARKS
1A-B	Corp Q.C.D.	2-27-54	WILLOUGHBY LUMBER CORP	St. of Vt.	SUTTON	30	229	3-11-54	(SEE ALSO SHEET 18)	
2A-B	W.D.	11-25-53	RAYMOND A. MCCOY		"	30	225	2-19-54	(SEE ALSO SHEET 17)	

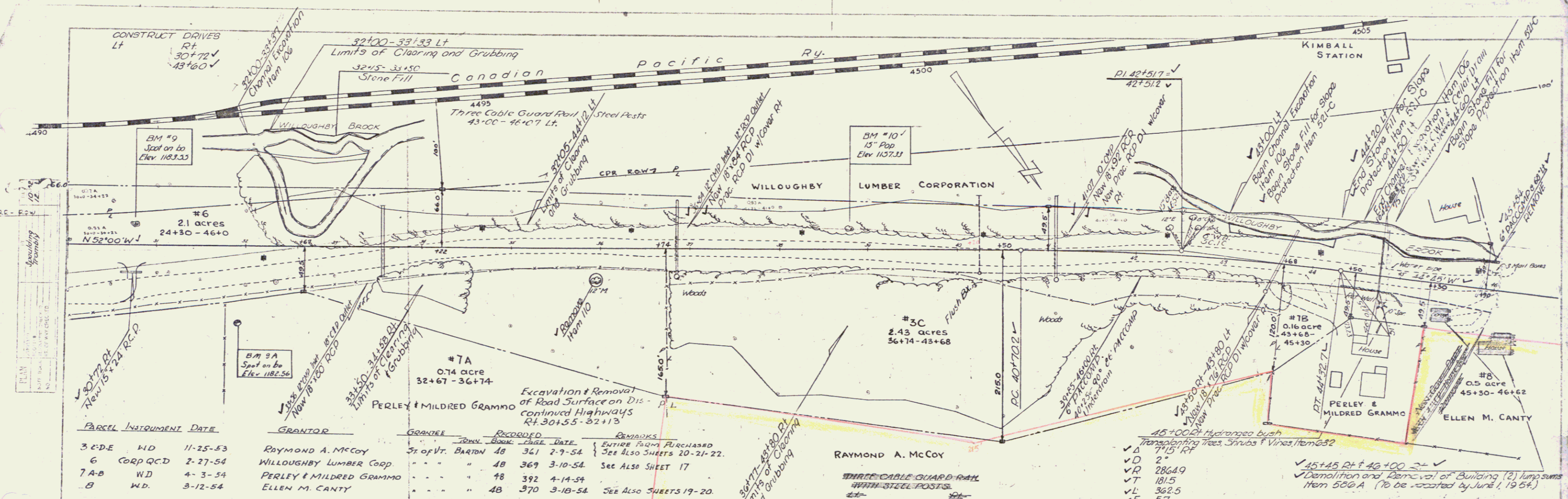
Control of section of old highway between Sutton-Barton town line and station 84+25, 21+53 ft., relinquished to Town of Barton. Recorded Book A, Page 117, Barton Road Records, March 15, 1956.



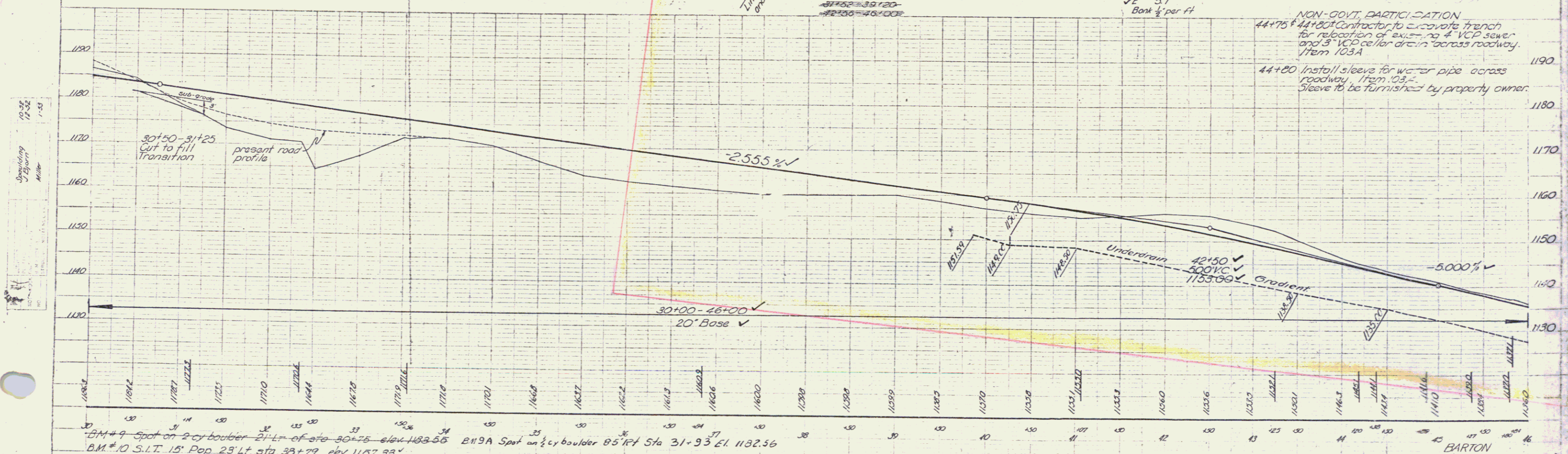
B.M. #7 Sta. 10+32 249' Lt. S.I.R. 12" Poplar. El. 1181.32'

Barton F1-1 33(2)
 Sheet 16 of 170

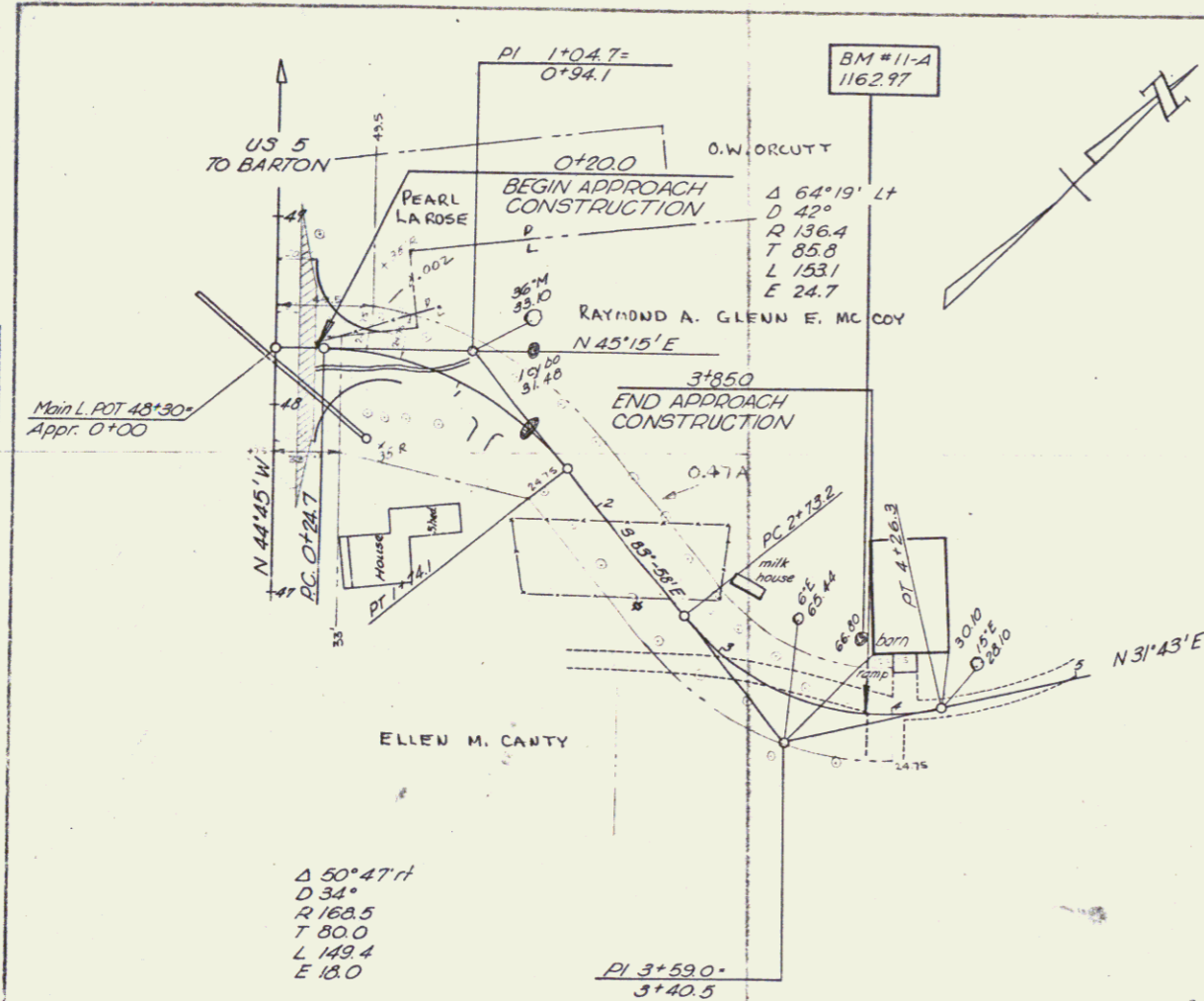
2



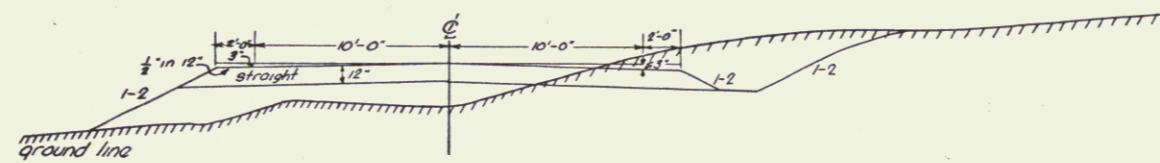
PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
3-C-D-E	WD	11-25-53	RAYMOND A. MCCOY	37 of Vt. BARTON	48	361 2-9-54
6	CORP QCD	2-27-54	WILLOUGHBY LUMBER COOP		48	369 3-10-54
7-A-B	WD	4-3-54	PERLEY & MILDRED GRAMMO		48	392 4-14-54
8	WD	3-12-54	ELLEN M. CANTY		48	370 3-18-54



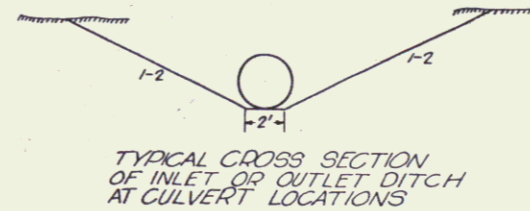
B.M. #9 Spot on 2' cy boulder 21' Lt. of sta 30+75 elev. 1183.55
 B.M. #10 S.I.T. 15' Pop. 23' Lt. of sta 38+79 elev. 1157.33



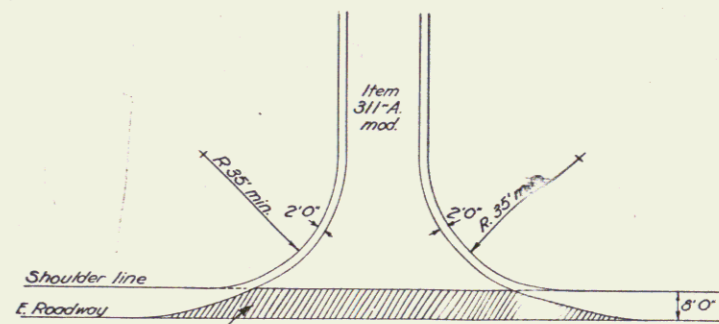
CONSTRUCT DRIVES
1"=25' RT



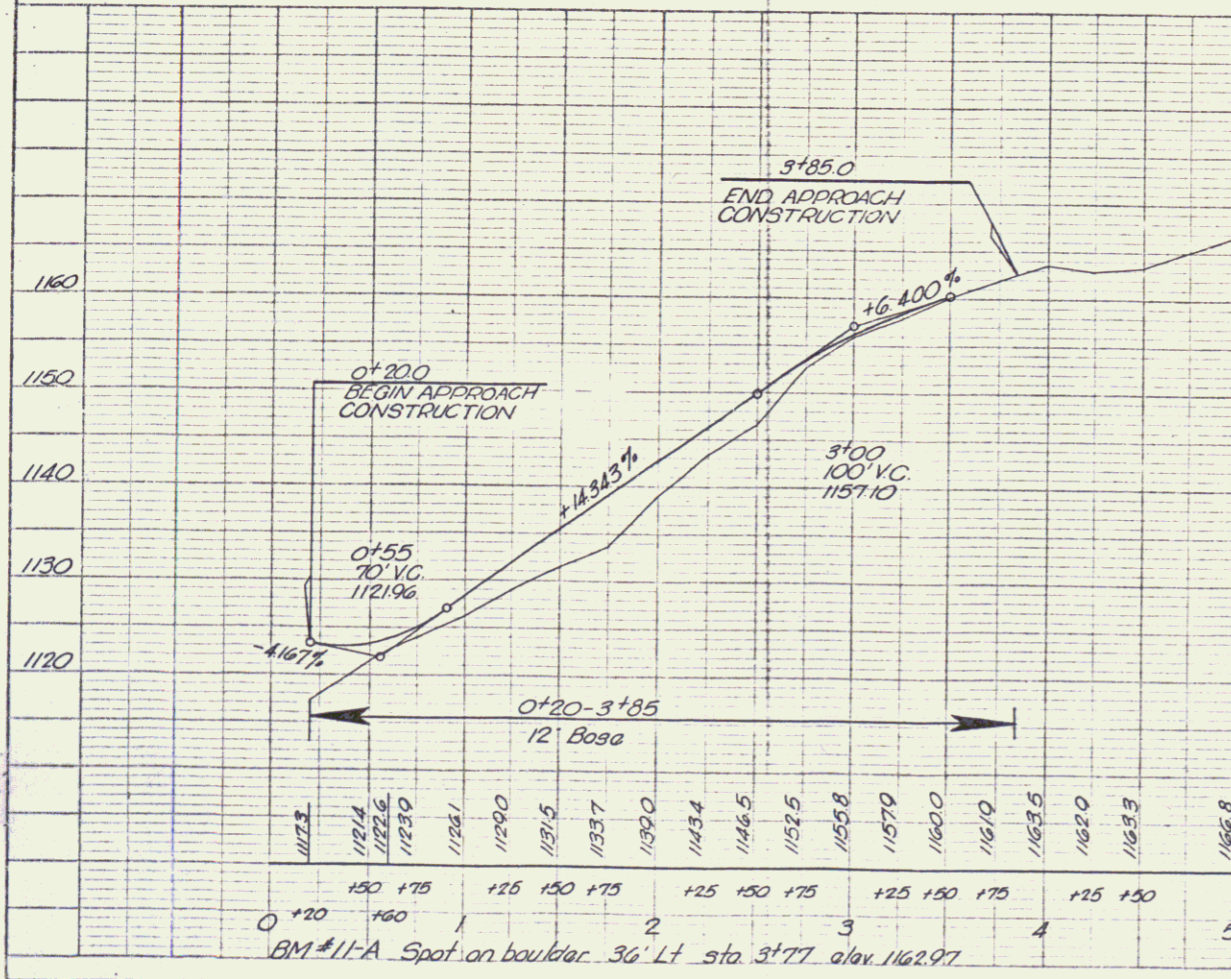
TYPICAL SECTION AT APPROACH
48"±30 RT
SCALE 1"=5'



TYPICAL CROSS SECTION
OF INLET OR OUTLET DITCH
AT CULVERT LOCATIONS



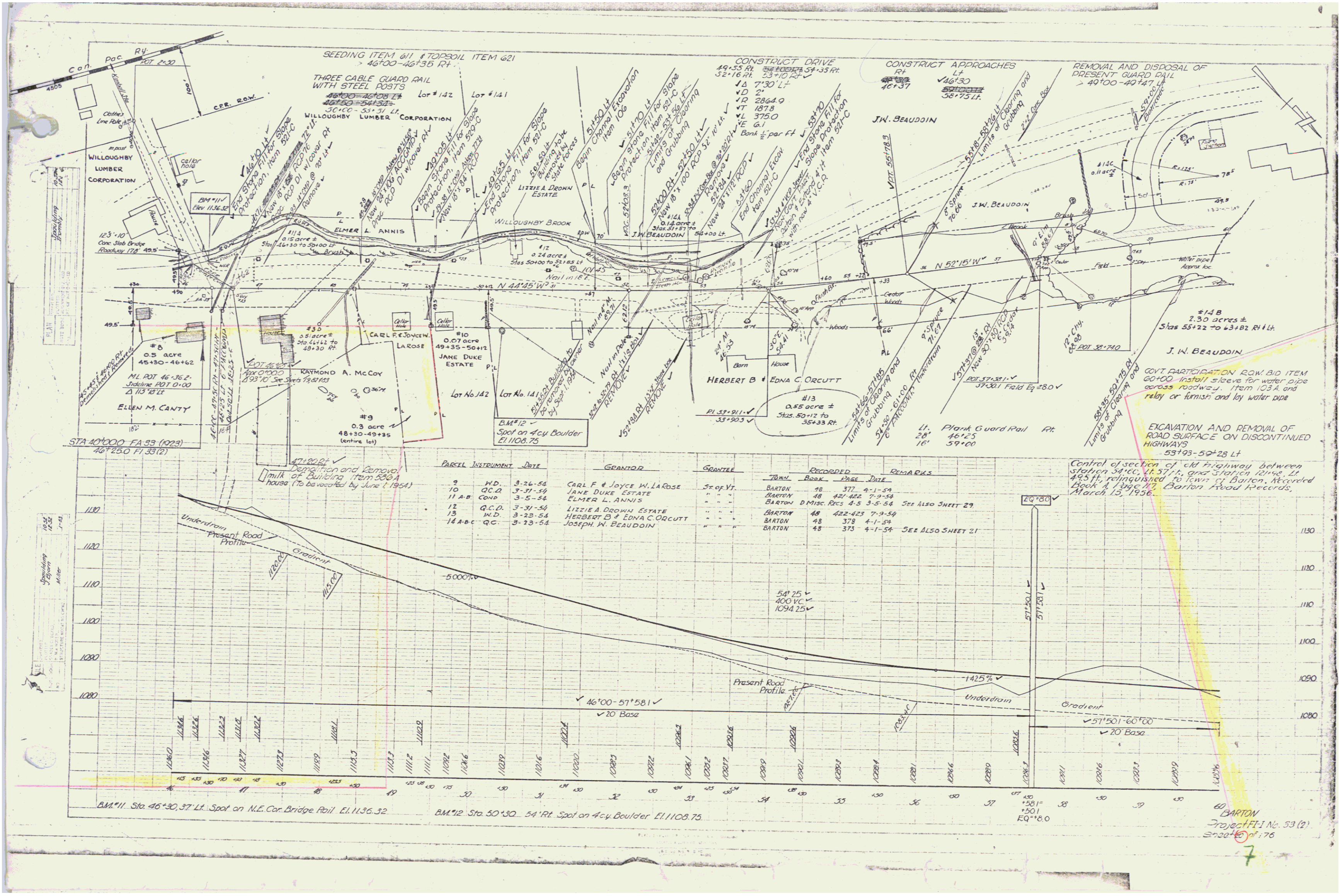
DETAILS OF SURFACE
AT APPROACH INTERSECTION
Scale: 1"=25'



BM #11-A Spot on boulder. 36' Lt. sta. 3+77 elev. 1162.97

VOID

BARTON
Project #1 No 5322
sheet 19A of 17A



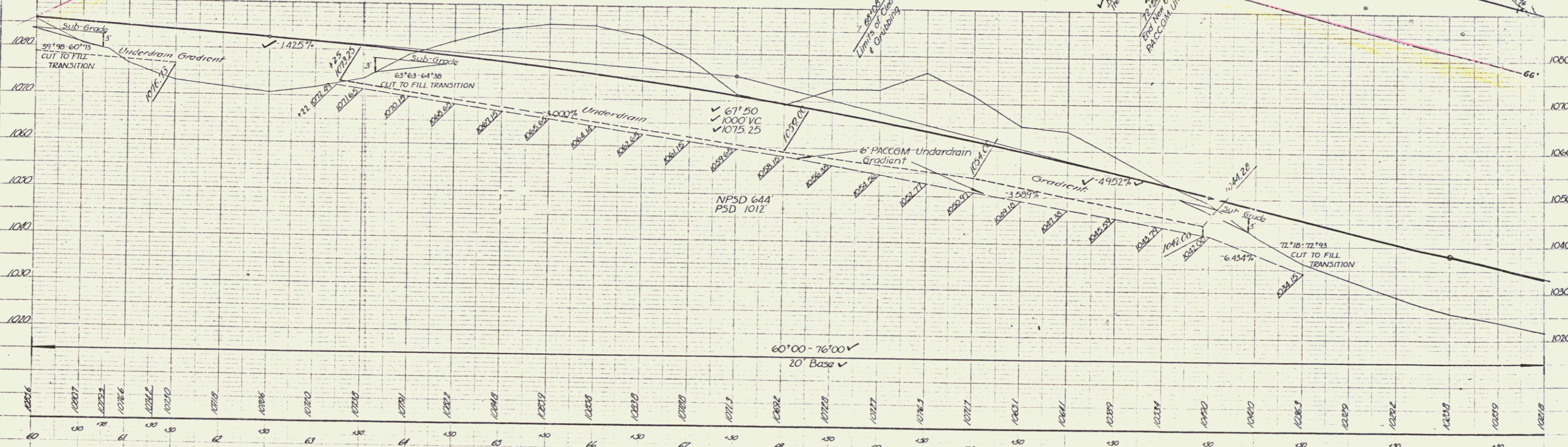
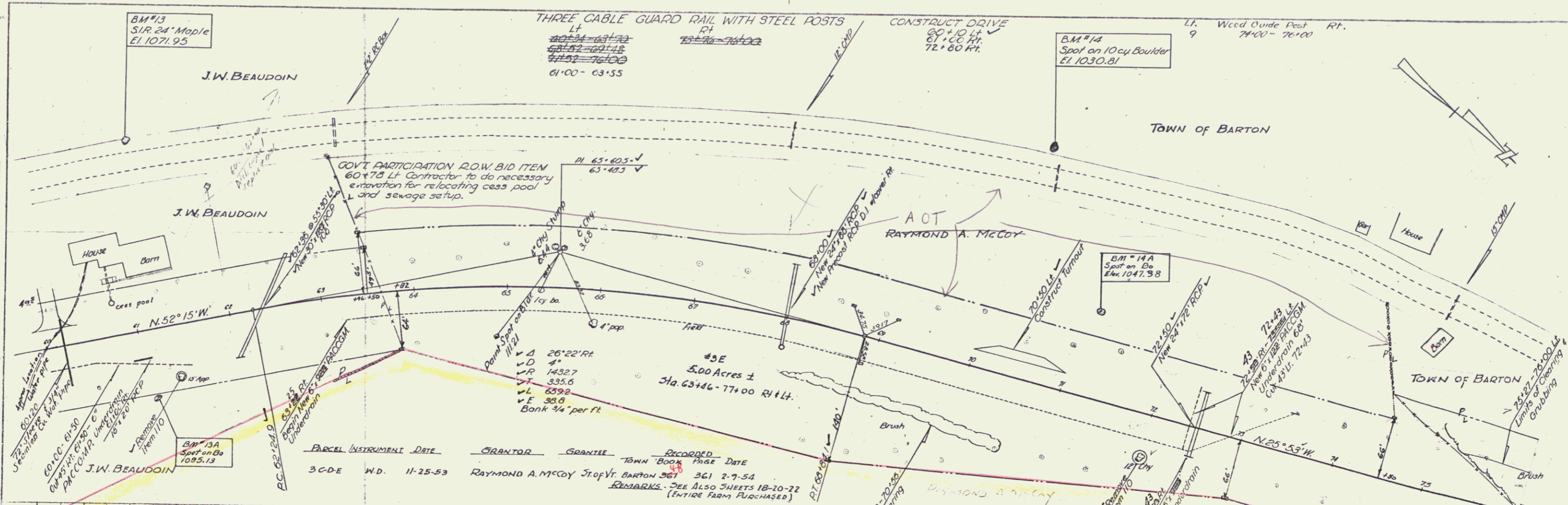
PARCEL INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
9	W.D. 3-26-54	CARL F. & JOYCE W. LA ROSE	ST. OF VT.	BARTON 48 372 4-1-54	
10	Q.C.D. 3-31-54	JANE DUKE ESTATE	"	BARTON 48 427 4-1-54	
11 A-B	COND. 3-5-54	ELMER L. ANNIS	"	BARTON D Misc. Recs 4-5 3-5-54	SEE ALSO SHEET 29
12	Q.C.D. 3-31-54	LIZZIE A. DROWN ESTATE	"	BARTON 48 422-423 7-9-54	
13	W.D. 3-23-54	HERBERT B. & EDNA C. ORCUTT	"	BARTON 48 378 4-1-54	
14 A-B-C	Q.C. 3-23-54	JOSEPH W. BEAUDOIN	"	BARTON 48 373 4-1-54	SEE ALSO SHEET 21

Control of section of old highway between station 54+00, Lt. 57+11, and Station 12+48, Lt. 49+57, relinquished to town of Barton, Recorded Book 4, Page 17, Barton Road Records, March 13, 1956.

BM #11 Sta. 46+30.37 Lt. Spot on N.E. Cor. Bridge Rail El. 1136.32

BM #12 Sta. 50+30.54 Rt. Spot on 4cy Boulder El. 1103.75

BARTON Project FE-1 No. 53 (2) Sheet 6 of 176



PLAN
 1" = 40'
 1" = 40'

PROFILE
 1" = 10'
 1" = 100'

BM#13 Sta 61+25 205' Lt. S1R 24' Maple El. 1071.95
 BM#13A Spot on top Boulder 70' Lt. Sta 61+10 El. 1083.19
 BM#14 Sta 70+25 251' Lt. Spot on 10 cy Boulder El. 1030.81
 BM#14A Spot on top Boulder 90' Lt. Sta 71+20 El. 1047.38

BARTON FH-33(2)
 Sheet (2) of 176

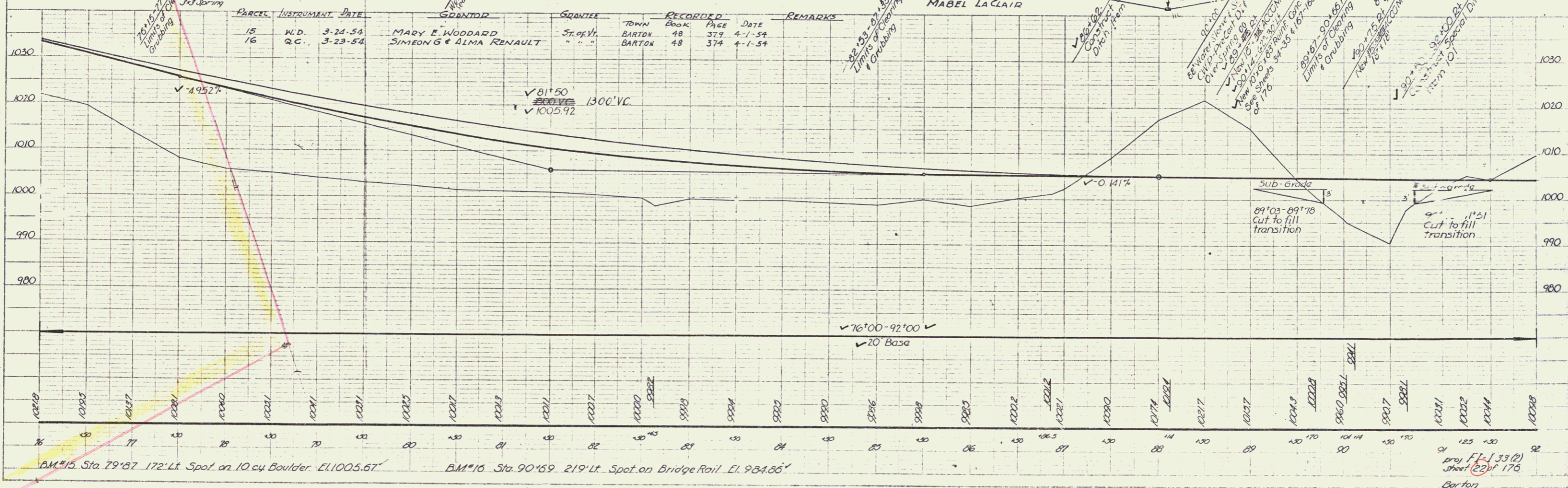
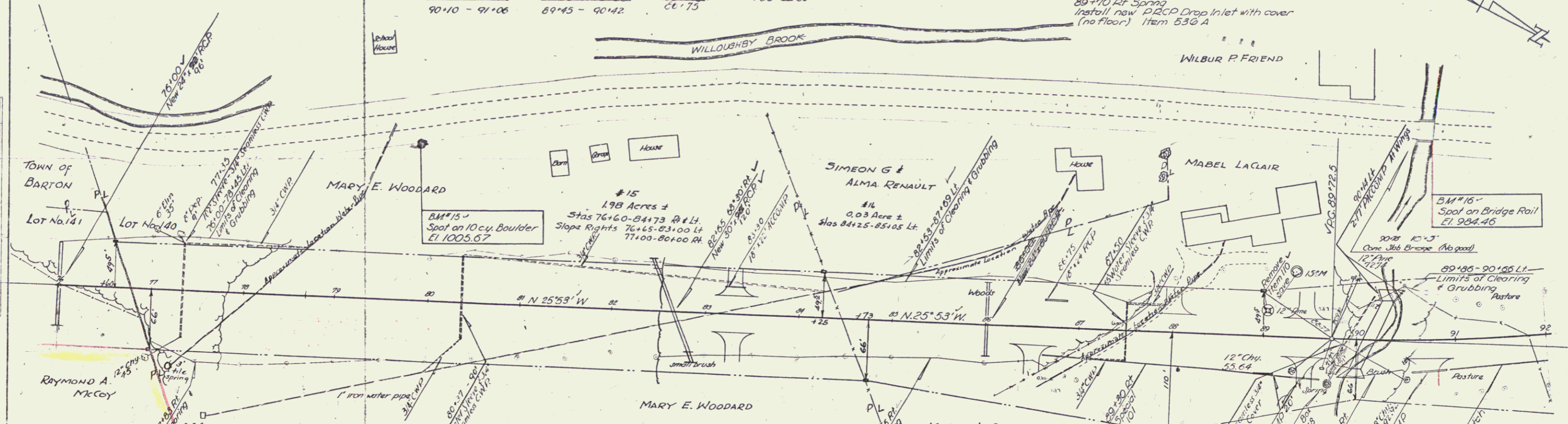
8

Lt Wood Guide Posts R/L
4 76+00 - 76+80

THREE CABLE GUARD
RAIL WITH STEEL POSTS
LT RT
76+00-80+00 76+00-76+37
89+74-91+34 89+56-90+65
90+10-91+06 89+45-90+42
60+75

CONSTRUCT DRIVES
LI RI
83+50 ✓ 86+50 75
83+50 ✓ 83+50 45
85+00 ✓ 89+45 25
85+00 ✓ 90+55 60

GOVT PARTICIPATION (ROW BID ITEMS)
73+15, 83+10, 87+50 & 89+70
Install sleeves for water pipes across
roadway, Item 103 A and relay or furnish
and lay water pipes
89+70 R/L Spring
Install new 22" Drop Inlet with cover
(no floor) Item 536 A



PLAN
REVISIONS
DATE
BY
CHECKED
DATE
BY

PLAN
REVISIONS
DATE
BY
CHECKED
DATE
BY

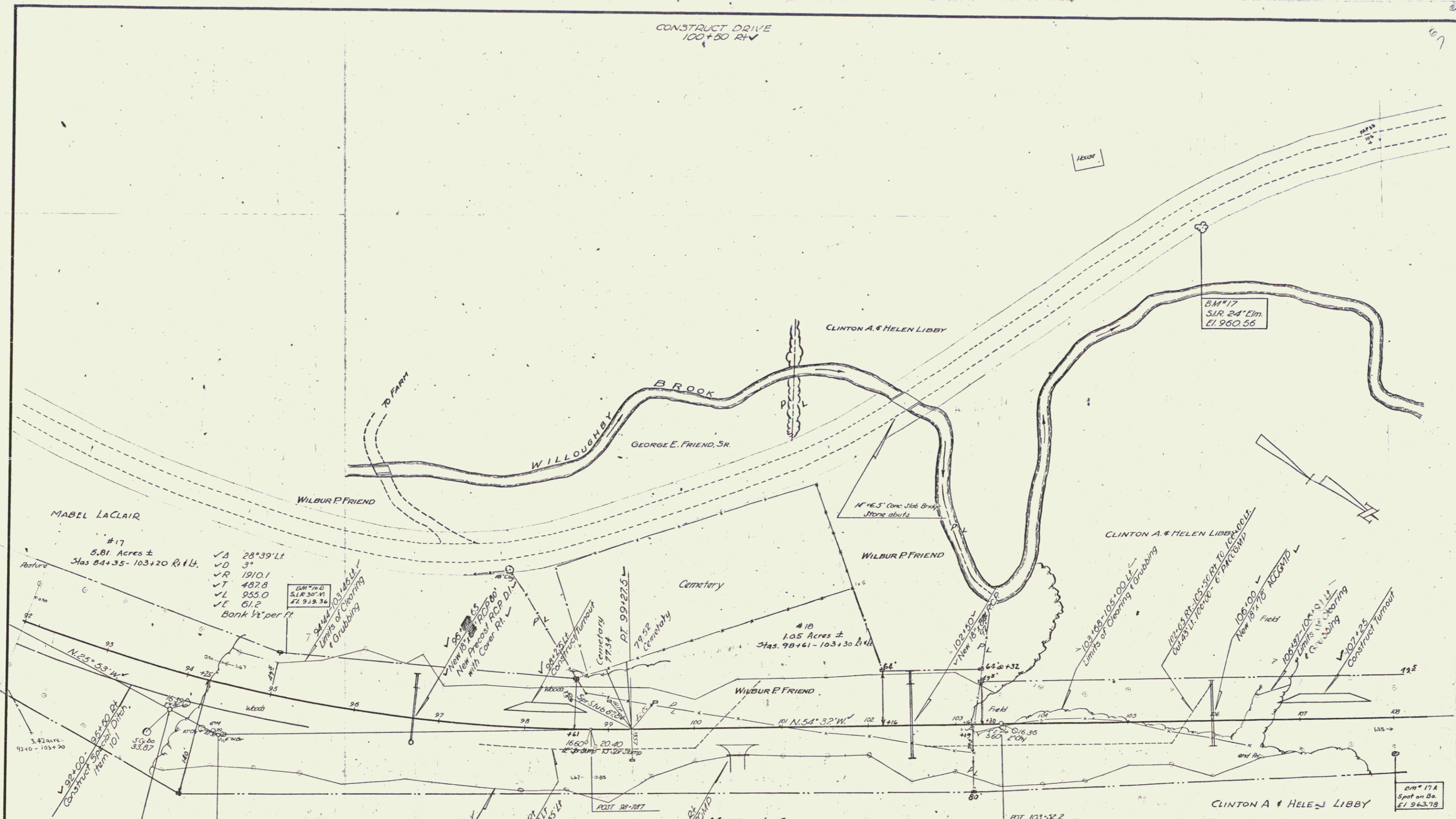
BM #16
Spot on Bridge Rail
El. 984.46

BM #15 Sta. 79+87 172' Lt. Spot on 10 cy Boulder El. 1005.67

BM #16 Sta. 90+59 219' Lt. Spot on Bridge Rail El. 984.86

proj. F-133(2)
sheet 22 of 176
Barton

CONSTRUCT DRIVE
100+50 R/W



MABEL LACLAIR
#17
5.81 Acres ±
Stas 84+35-103+20 R/W

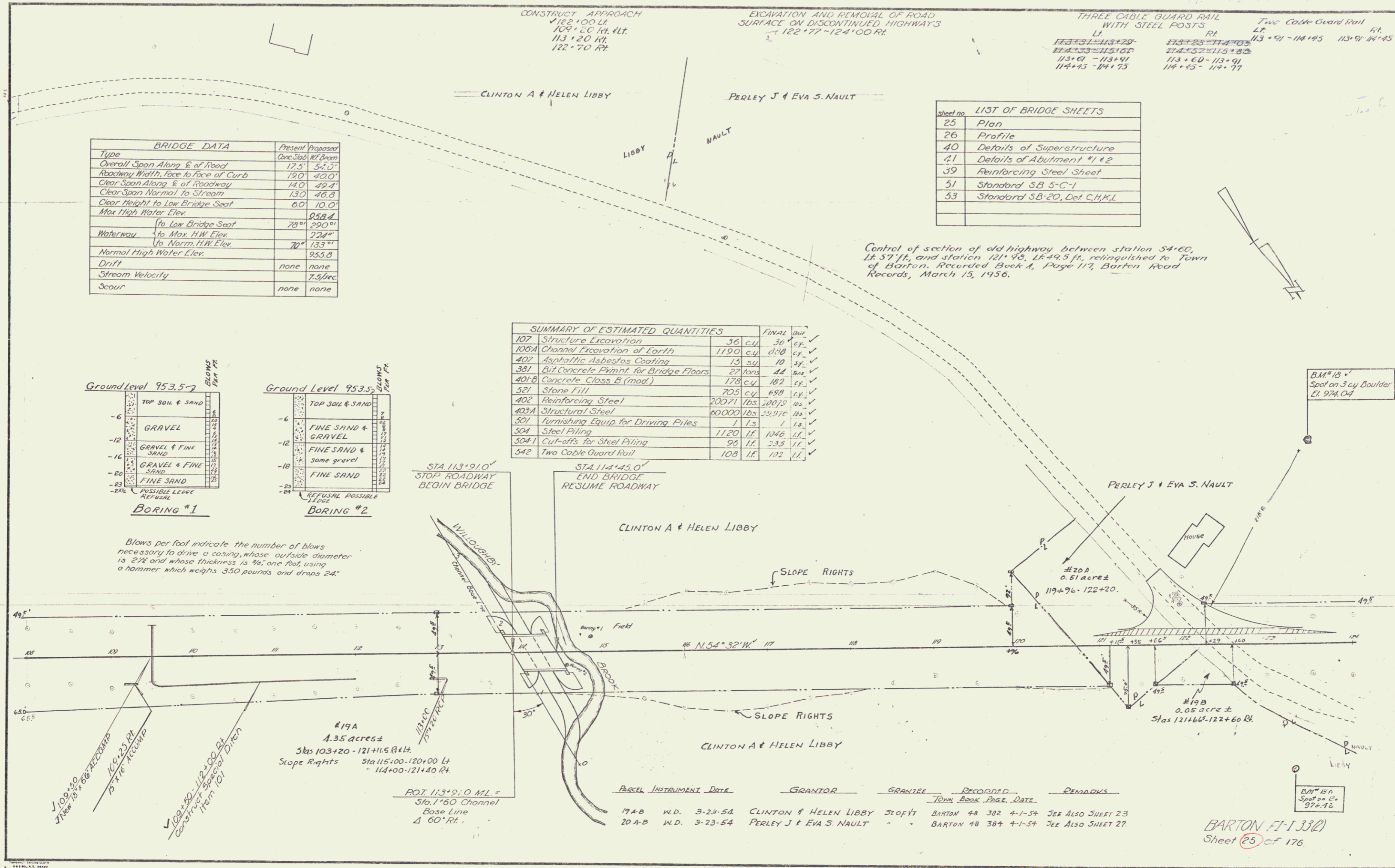
VA 28°39' Lt
VD 3°
VR 1910.1
VT 402.8
VL 955.0
VF 61.2
Bank 1/2" per ft

#18
1.05 Acres ±
Stas 98+61-103+30 R/W

MABEL LACLAIR

PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
					Town Book Page	
17	W.D.	3-23-54	MABEL LACLAIR	Sr. of Vt.	BARTON 48 380	4-1-54 SEE ALSO SHEET 22
18	W.D.	4-8-54	WILBUR P. FRIEND	" "	BARTON 48 397	4-26-54

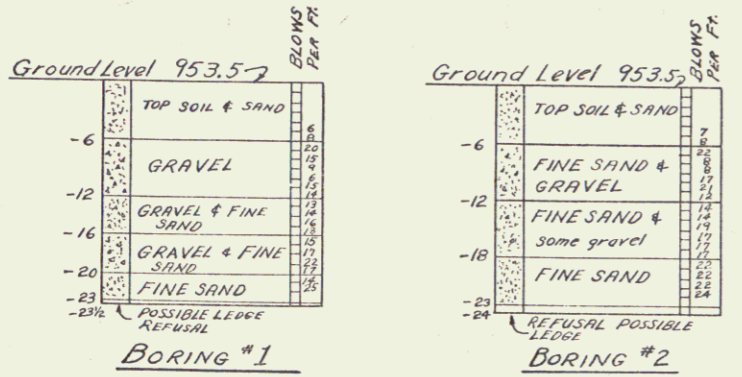
BARTON FI-133(2)
Sheet 23 of 176



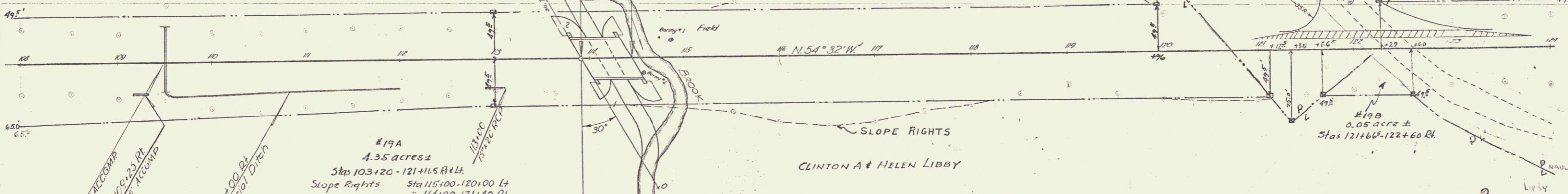
BRIDGE DATA		
Type	Present	Proposed
Overall Span Along E. of Flood	127.5'	54.3'
Roadway Width, Face to Face of Curb	19.0'	40.0'
Clear Span Along E. of Roadway	14.0'	49.4'
Clear Span Normal to Stream	13.0'	46.8'
Clear Height to Low Bridge Seat	6.0'	10.0'
Max High Water Elev.	958.4	
To Low Bridge Seat	79° 01'	290° 01'
Waterway To Mar. H.W. Elev.	72° 00'	
To Norm. H.W. Elev.	70°	133° 01'
Normal High Water Elev.	955.8	
Drift	none	none
Stream Velocity	7.5/Sec	
Scour	none	none

Sheet No.	LIST OF BRIDGE SHEETS
25	Plan
26	Profile
40	Details of Superstructure
41	Details of Abutment #1 & 2
59	Reinforcing Steel Sheet
51	Standard SB 5-C-1
53	Standard SB-20, Det. C,H,K,L

SUMMARY OF ESTIMATED QUANTITIES		
Item	Final	Unit
107 Structure Excavation	36	cuy
106A Channel Excavation of Earth	1190	cuy
407 Asphaltic Asbestos Coating	13	sq ft
381 Bit Concrete Fmnt. for Bridge Floors	27	sq yds
401-B Concrete Class B (mod.)	178	cuy
521 Stone Fill	705	cuy
402 Reinforcing Steel	20071	lbs
403A Structural Steel	60000	lbs
501 Furnishing Equip for Driving Piles	1	hr
504 Steel Piling	1120	lf
504-1 Cut-offs for Steel Piling	96	lf
542 Two Cable Guard Rail	108	lf



Blows per foot indicate the number of blows necessary to drive a casing, whose outside diameter is 2 1/2" and whose thickness is 3/8", one foot, using a hammer which weighs 350 pounds and drops 24".

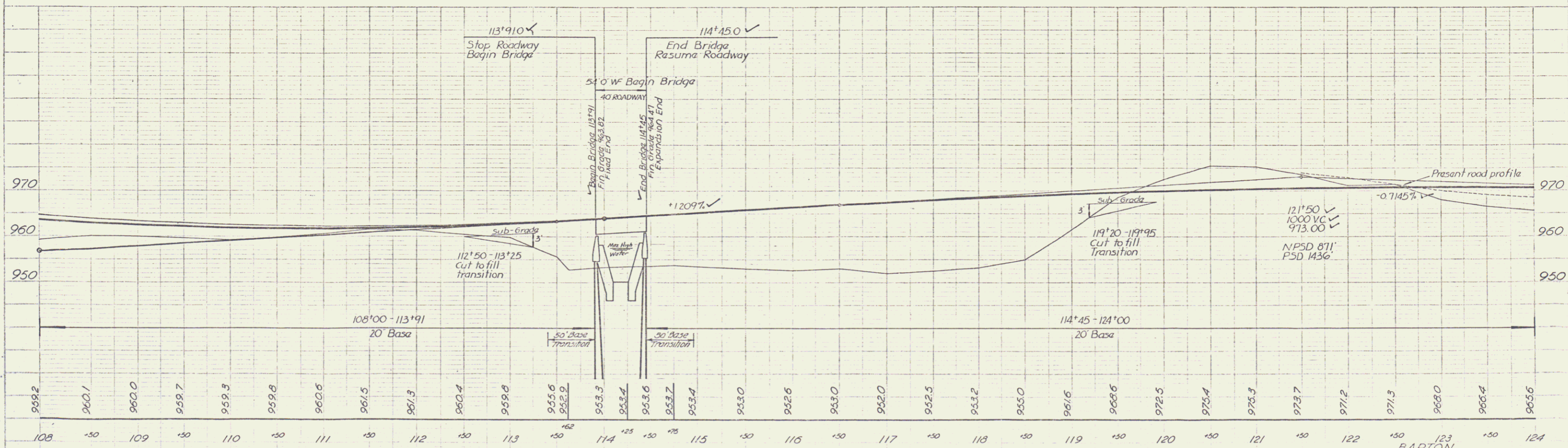


PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
19A-B	W.D.	3-23-54	CLINTON & HELEN LIBBY	Stofyt	BARTON 48 382 4-1-54	SEE ALSO SHEET 23
20A-B	W.D.	3-23-54	PERLEY J & EVA S. NAULT	"	BARTON 48 384 4-1-54	SEE ALSO SHEET 27

BARTON FI-133(2)
Sheet (25) of 176

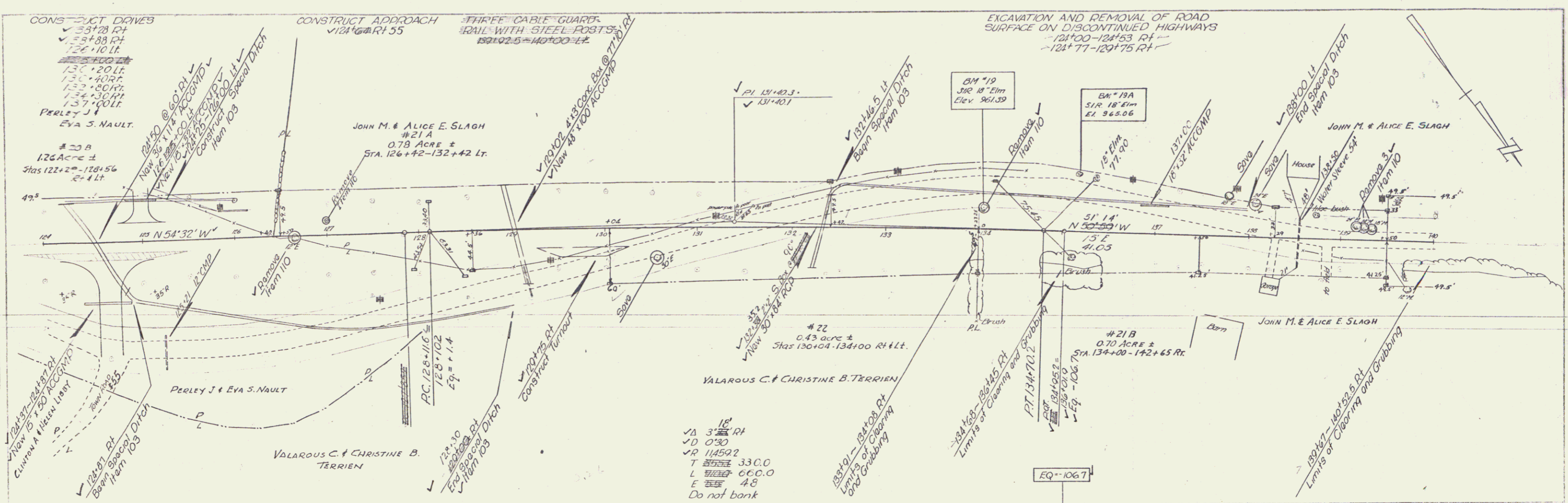
PLAN
 DATE: 10/13/11
 NOTE: 80% OF THE WORK WAS DONE BY THE CONTRACTOR

106
 107
 108
 109
 110
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 112
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 114
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 116
 117
 118
 119
 120
 121
 122
 123
 124



B.M. #18 Sta. 123+50 250' Lt. Spot on 3 cy Boulder El. 974.04 B.M. 13 A Spot on Boulder 150' Rt Sta. 123+30 El. 976.42

BARTON
 Proj. FI-1 33(2)
 Sheet 66 of 176



PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	TOWN	BOOK	PAGE	DATE	REMARKS
21A-B-C	Q.C.	4-5-54	JOHN M & ALICE E. SLAGH	CHRISTINE B. TERRIEN	BARTON	48	391	4-18-54	SEE ALSO SHEET 28
22	W.D.E.	3-23-54	VALAROUS C & CHRISTINE B. TERRIEN	"	"	48	385	4-1-54	
21D	Q.C.D.	8-10-54	JOHN M & ALICE E. SLAGH	"	"	48	452	8-13-54	

STATION	ELEVATION
124	963.6
125	963.0
126	961.9
127	961.1
128	960.6
129	960.2
130	959.6
131	959.1
132	958.7
133	958.2
134	957.8
135	957.4
136	957.0
137	956.6
138	956.2
139	955.8
140	955.4

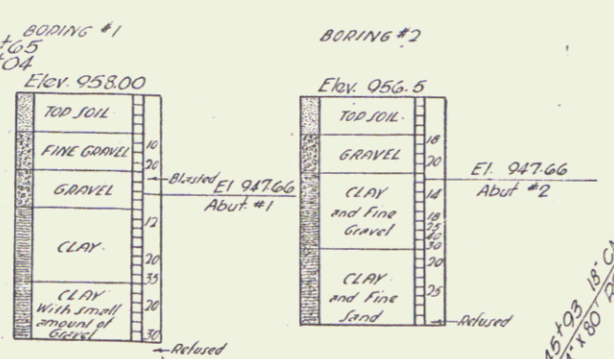
BM #19 Sta 134+05 24' Lt. S.I.R. 18' Elm. El. 961.39 BM #19A S.I.R. 18' Elm. 63' Rt Sta. 126+77 Elev. 965.06

Adj. F.T.-I 33(2)
Sheet 13 of 176
Barton

CONSTRUCT DRIVES
 155+34 RT
 156+00 RT

THREE CABLE GUARD RAIL
 WITH STEEL POSTS
 RT
 140+00-140+10.5
 140+16.5-140+64.5
 140+65.5-142+41.5
 140+89.5-142+33.5

REMOVAL AND DISPOSAL OF
 PRESENT GUARD RAIL
 RT
 140+47-140+63
 140+87-141+03
 RT
 140+33-140+65
 140+80-141+04



PLAT
 12-32
 12-33
 12-34
 12-35
 12-36
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 12-97
 12-98
 12-99
 13-00

140+00-140+10.5 RT
 Clearing
 and G

140+100-140+152.5 RT
 Clearing
 and G

140+152.5-140+177.5 RT
 Clearing
 and G

140+177.5-140+200 RT
 Clearing
 and G

140+200-140+225 RT
 Clearing
 and G

140+225-140+250 RT
 Clearing
 and G

BRIDGE DATA

Type	PRESENT	PROPOSED
Overall Span along R.R.	34.5'	25'
Road width face to face Curb	20.5'	40'
Clear Span along R.R.	20'	22.11'
Clearance Normal to Stream	19.25'	19.25'
Clearance to Low Br Boat	5.30'	5.30'
Max. H.W. water Elev.	954.4	953.3
Normal High water Elev.	954.5+	954.8
Waterway To Low Br Boat	80"	100"
Normal To Max H.W. Elev	43"	44"
Stream To Normal H.W. Elev.		35"
Stream Velocity	20/sec.	slight
Drift		NO
Scour		NO

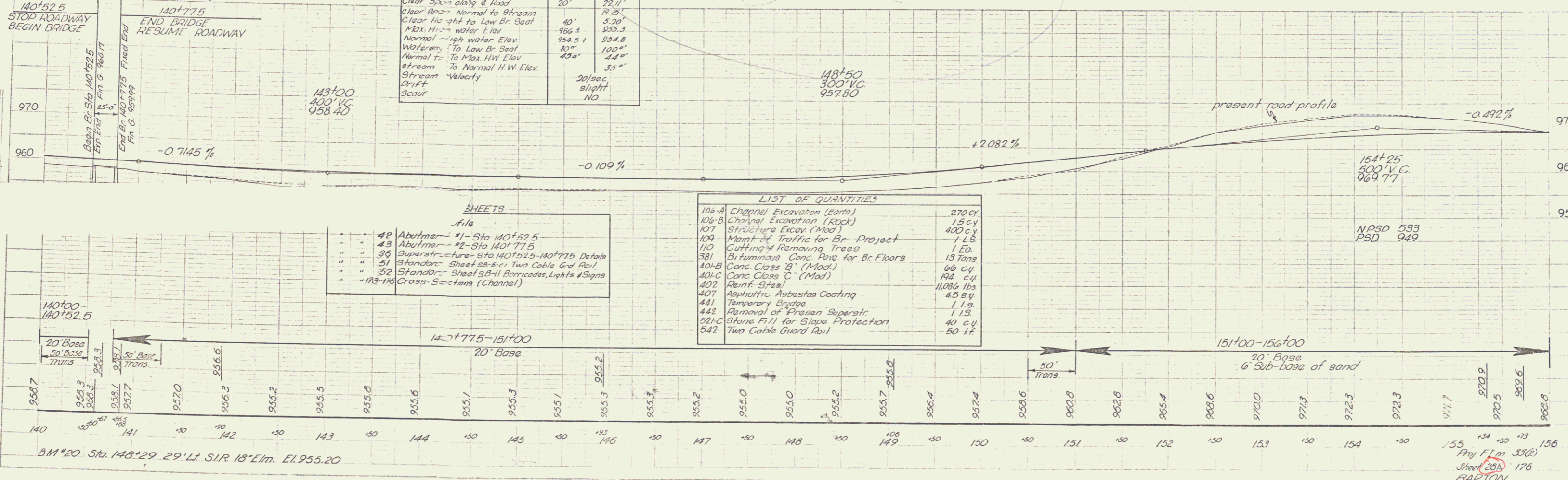
Voided

LIST OF QUANTITIES

106-A	Channel Excavation (Earth)	270 cy
106-B	Channel Excavation (Rock)	15 cy
107	Structure Excav (Mod)	400 cy
109	Maint of Traffic for Br. Project	1 LS
110	Cutting & Removing Trees	1 Ea.
381	Bituminous Conc. Pave for Br. Floors	13 Tons
401-B	Conc. Class B (Mod)	66 cy
401-C	Conc. Class C (Mod)	194 cy
402	Reinf. Steel	11086 lbs
407	Asphaltic Asbestos Coating	45.8 sq
441	Temporary Bridge	1.19
442	Removal of Present Superstr.	1.13
521-C	Stone F.I.I. for Slope Protection	40 cy
542	Two Cable Guard Rail	50 ft.

SHEETS

42	Abutment #1 - Sto 140+52.5
43	Abutment #2 - Sto 140+77.5
39	Superstructure - Sto 140+52.5-140+77.5 Details
51	Standard - Sheet 28-8-c1 Two Cable Gnd Rail
52	Standard - Sheet 28-4-1 Barricades, Lights & Signs
173-176	Cross-Section (Channel)



BM #20 Sta. 148+29 29' Lt. S.I.R. 18' Elm. El. 955.20

156+00
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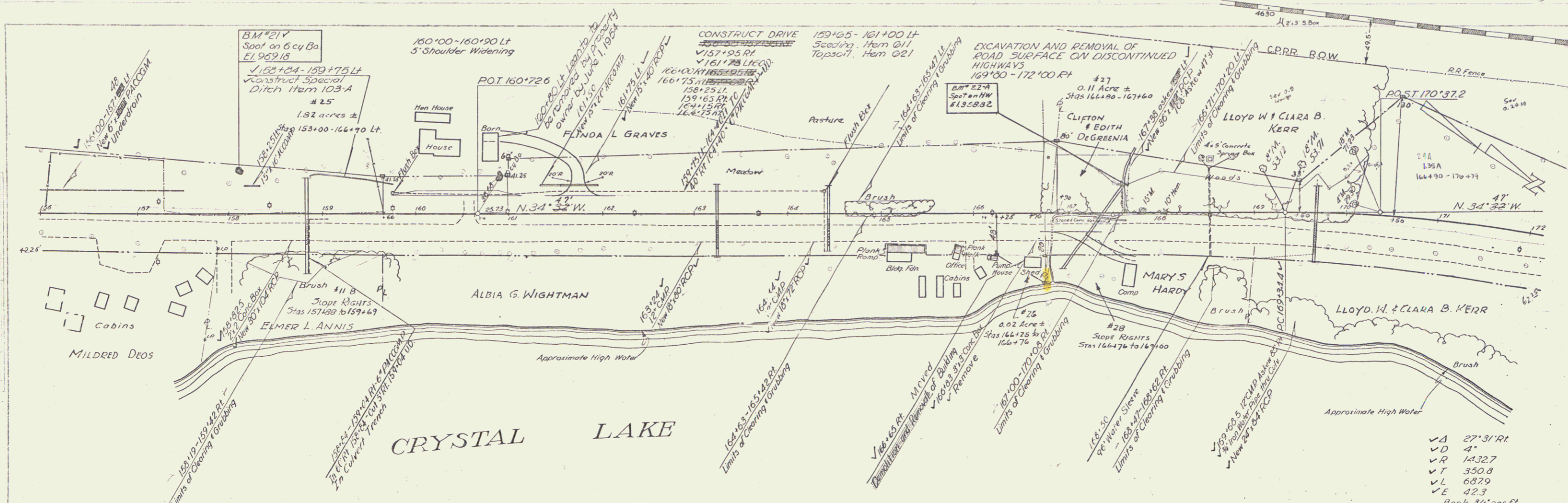
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5



PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	TOWN	RECORDED BOOK PAGE DATE	REMARKS
25	W.D.E.	3-23-54	FLINDA L. GRAVES	STOBYT	BARTON	48 385-386 4-1-54	SEE ALSO PAGE 28
26	COND.	3-5-54	ALBIA G. WIGHTMAN	"	"	D-MISC 4-5 3-5-54	
27	COND.	3-5-54	CLIFTON & EDITH DE GREENIA	"	"	D-MISC 4-5 3-5-54	
28	COND.	3-5-54	MARY S. HARDY	"	"	D-MISC 4-5 3-5-54	
11-B	COND.	3-5-54	ELMER L. ANNIS	"	"	D-MISC 4-5 3-5-54	SEE ALSO SHEET 20.
26-A	W.D.E.	7-2-54	ALBIA G. WIGHTMAN	"	"	48 424 7-10-54	

STATION	ELEVATION
959.0	
959.8	
957.8	
954.3	
952.5	
950.9	
950.6	
950.9	
951.3	
953.5	
956.9	
959.1	
957.1	
958.8	
958.5	
959.0	
957.0	
953.6	
953.9	
951.2	
950.2	
957.4	
957.2	
950.0	
955.9	
956.9	
957.6	
957.7	
954.8	
951.6	
956.0	
955.2	
955.8	
955.6	
957.5	
958.9	
961.2	
961.5	
958.8	
968.1	
977.1	
979.7	
976.6	
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STATION	ELEVATION
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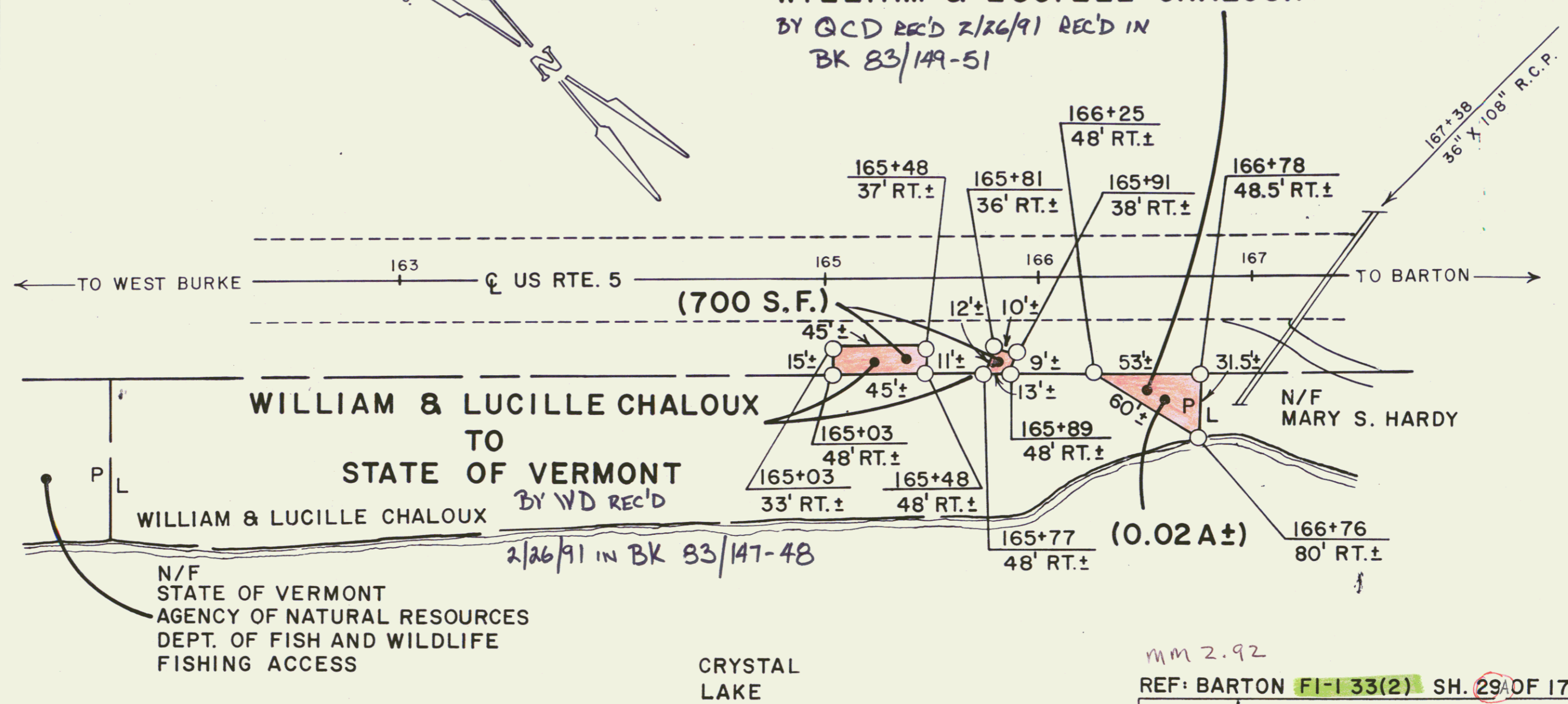
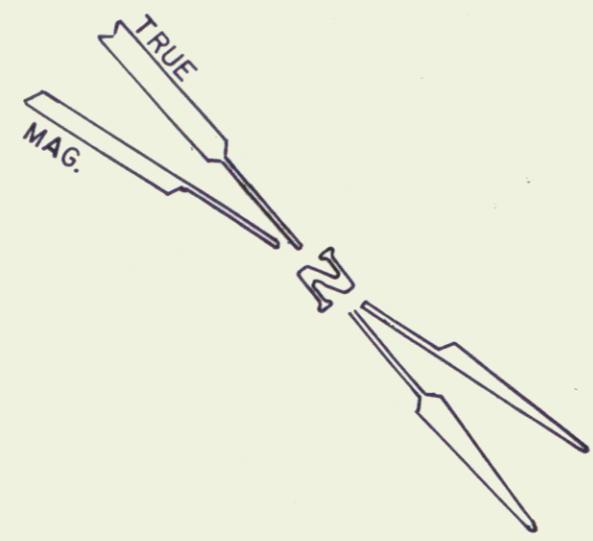
- VA 27'31" RI
- VD 4'
- VR 1432.7
- VT 350.8
- VL 687.9
- VE 42.3
- Bank 3/4' per ft.

B.M. #21 Sta. 158+10, Lt. 45' Spot on 6 cy Boulder. E.I. 969.18 ✓ B.M. #22A Spot on Headwall 30' Lt. Sta. 167+75 E.I. 958.82 ✓

BARTON
Proj. FI-1 33(2)
Sheet 29 of 176

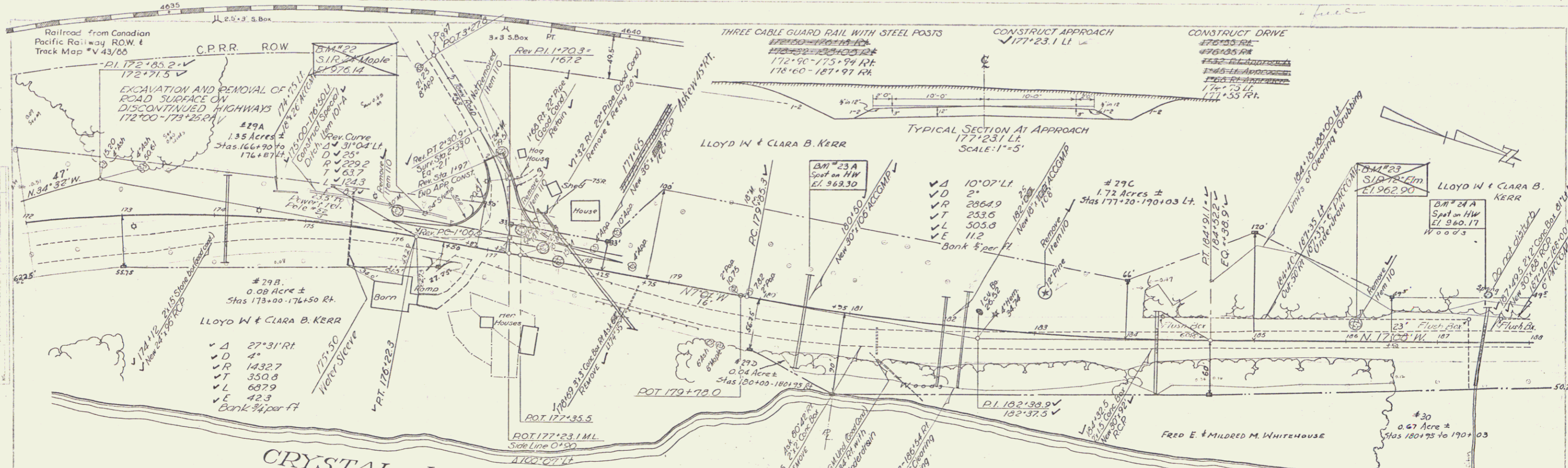
THE 0.02 ACRE IS ALL AND THE SAME LAND AND PREMISES ACQUIRED BY THE STATE OF VERMONT FROM ALBIA G. WIGHTMAN BY WARRANTY DEED OF EASEMENT DATED JULY 2, 1954 AND RECORDED IN BOOK 48 PAGE 424 OF THE LAND RECORDS OF THE TOWN OF BARTON.

STATE OF VERMONT
TO
WILLIAM & LUCILLE CHALOUX
BY QCD REC'D 2/26/91 REC'D IN
BK 83/149-51

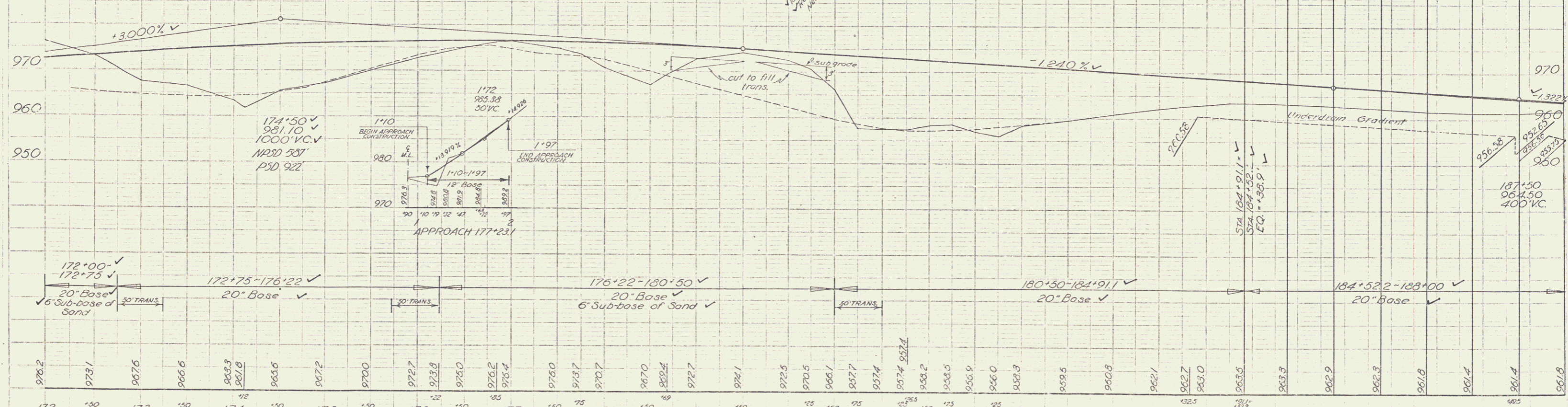


MM 2.92
REF: BARTON FI-1 33(2) SH. 29A OF 176
STATE OF VERMONT
AGENCY OF TRANSPORTATION
TOWN OF BARTON
APPROX. SCALE 1"=50' DATE: 1-18-91 DRAWN BY C.C.P.

17



Parcel	Instrument	Date	Grantor	Grantee	Recorded	Remarks
29 A-B-C-D	WDOE	3-29-54	LLOYD W & CLARA B. KERR	STOYER, BARTON	48 316-377 4-1-54	SEE ALSO SHEET 30 & 31
30	WDOE	4-6-54	FRED & MILDRED WHITEHOUSE	"	48 390 4-7-54	SEE ALSO SHEET 31



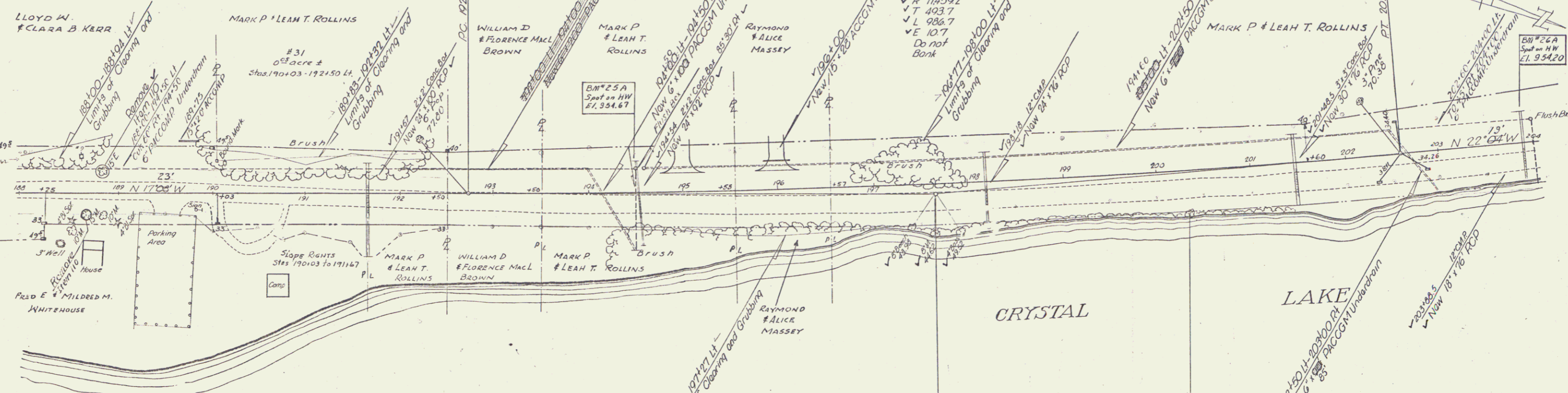
Station	Elevation	Notes
172+00	976.2	20' Base
172+75	978.1	6' Sub-base of Sand
176+22	976.6	20' Base
180+50	975.0	20' Base
184+52	972.7	20' Base
188+00	961.8	20' Base

BM #22 S.I.R. of 12' Elm 20' W of 173+00 Sta 173+00 Elev 976.14
 BM #23 S.I.R. of 12' Elm 20' W of 176+22 Sta 176+22 Elev 976.30
 BM #23A Spot on Head wall 36' W Sta 180+50 Elev 969.30
 BM #24A Spot on Head wall 33' W Sta 187+50 Elev 960.17
 BARTON
 Proj. FI-1 33(2)
 Sheet 30 of 176

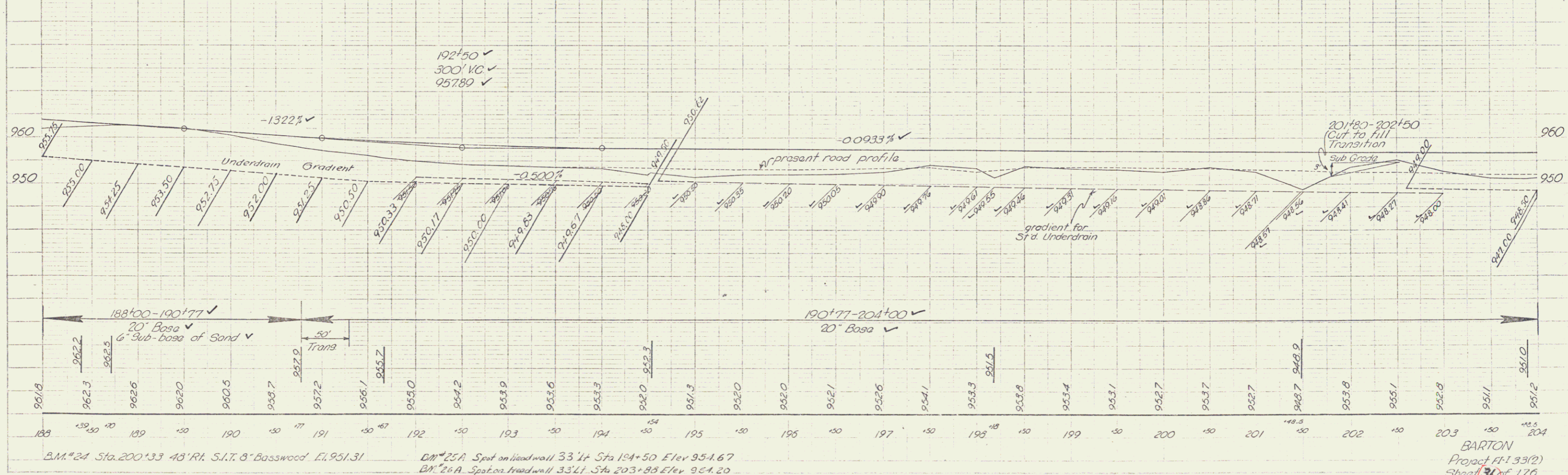
SEEDING ITEM 611 & TOPSOIL ITEM 621
- 188+25 - 189+95 Rt V

CONSTRUCT DRIVES
L 1
V 195+00
V 196+00
V 197+00
189+70

THREE CABLE GUARD RAIL
WITH STEEL POSTS
- 188+00 - 188+08 Rt V
- 197+59 - 201+00 Rt V



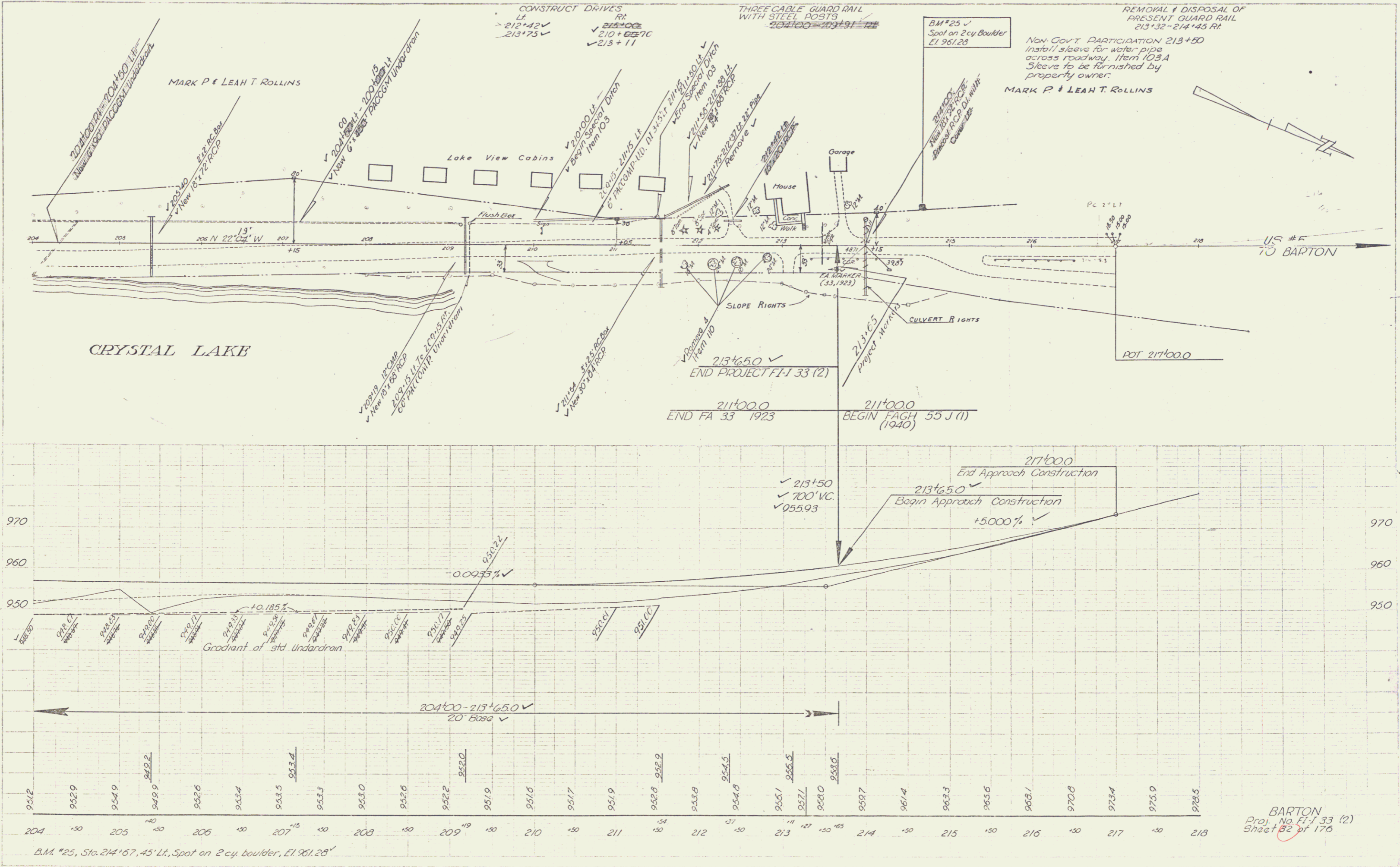
PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	REMARKS
31	WD	3-24-54	MARK P & LEAH T. ROLLINS	ST OF VT. BARTON 48	386	4-1-54 SEE ALSO SHEET 32



B.M. #24 Sta. 200+33 48' Rt. S.I.T. 8" Basswood El. 951.31

B.M. #25A Spot on Roadwall 33' Lt Sta 184+50 El. 954.67
B.M. #26A Spot on Roadwall 33' Lt Sta 203+88 El. 954.20

BARTON
Project FF-1 33(2)
Sheet 31 of 176



SPREADING
 MILLER
 1/56

SPREADING
 MILLER
 1/53

BARTON
 Proj. No. E-1 33 (2)
 Sheet 82 of 176