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STANDARD STRUCTURE SHEETS APPROVED BY THE CHIEF ENGINEER

VERMONT STATE HIGHWAY DEPT.

| | | | |
|---------|-------|-----|------|
| S 28 | APRIL | 26, | 1941 |
| S 30 | NOV. | 10, | 1947 |
| S 30A | APRIL | 19, | 1941 |
| S 51-48 | NOV. | 10, | 1947 |
| S 52-48 | NOV. | 7, | 1947 |

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

TOWNS OF READING - WOODSTOCK

VT. ROUTE 106
WOODSTOCK - SPRINGFIELD ROAD

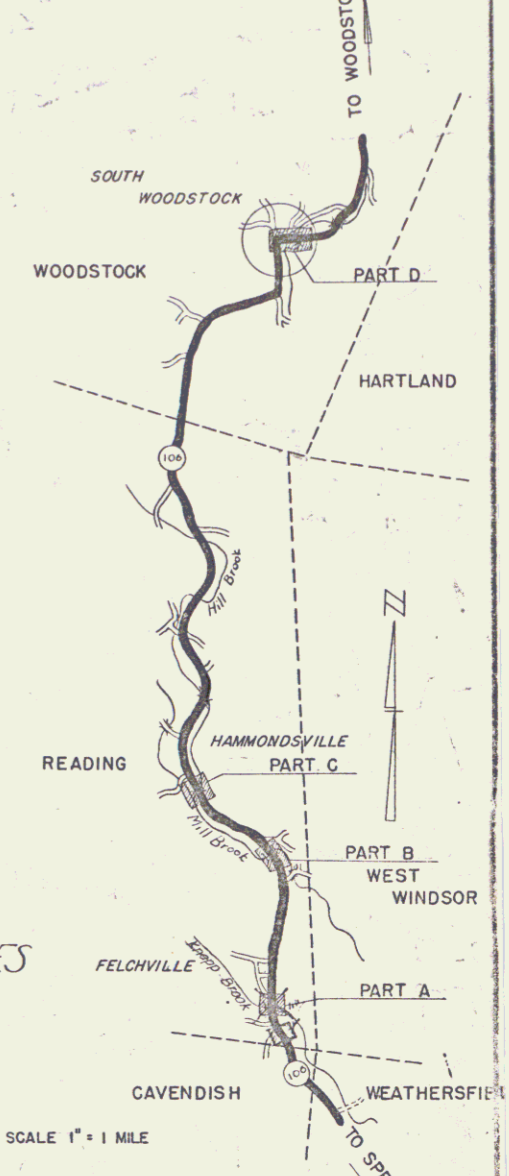
PART A - BEGINNING AT A POINT ON VT. ROUTE 106, 1256 FT. NORTH OF THE READING-CAVENDISH TOWN LINE, AND EXTENDING SOUTHERLY 0.190 MILES.
PART B - BEGINNING AT A POINT ON VT. ROUTE 106, 2.39 MILES NORTH OF THE READING-CAVENDISH TOWN LINE, AND EXTENDING SOUTHERLY 0.265 MILES.
PART C - BEGINNING AT A POINT ON VT. ROUTE 106, 3.68 MILES NORTH OF THE READING-CAVENDISH TOWN LINE, AND EXTENDING SOUTHERLY 0.237 MILES.
PART D - BEGINNING AT A POINT ON VT. ROUTE 106, IN THE VILLAGE OF SOUTH WOODSTOCK, 3.38 MILES NORTHEASTERLY OF THE WOODSTOCK-READING TOWN LINE AND EXTENDING EASTERLY 0.102 MILE.

LENGTH OF PROJECT

| | ROADWAY | | BRIDGE | | TOTAL | |
|--------|----------|--------|---------|--------|---------|--------|
| | FEET | MILES | FEET | MILES | FEET | MILES |
| PART A | 1002.4' | 0.190' | | | 1002.4' | 0.190' |
| PART B | 1311.0' | 0.248' | 890' | 0.017' | 1400.0' | 0.265' |
| PART C | 1250.0' | 0.237' | | | 1250.0' | 0.237' |
| PART D | 507.65' | 0.096' | 34.84' | 0.006' | 542.5' | 0.102' |
| TOTAL | 4071.06' | 0.771' | 123.84' | 0.023' | 4194.9' | 0.794' |

RECORD PLANS
PREPARED BY: LEE B. BATES
RESIDENT ENGINEERS:
ALEX GRAHAM
MERRIT H. CHURCHILL
W. V. KALLIO
P. J. DOHERTY

| | | | | | |
|---------------------|-------|-----------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 9 | VT. | 2302 | | 7 | 62 |



M

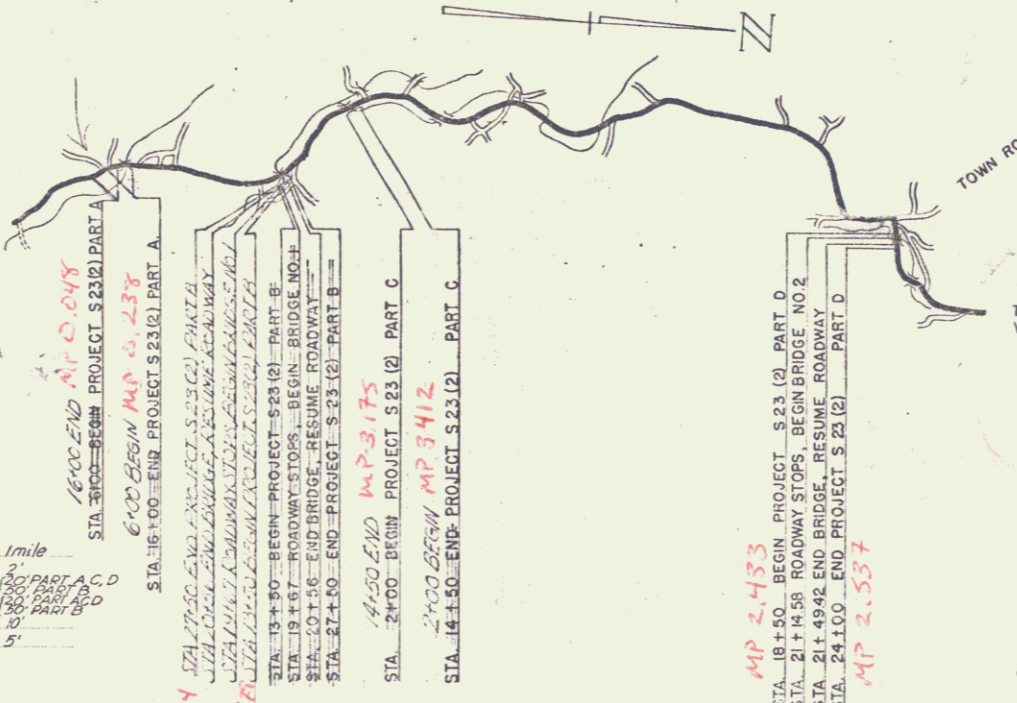
RECORD PLANS
Reading-Woodstock S23(2)
Contractor: Miller Construction Co.
Revision Date: June 21 1950

| | |
|------------|-------------------|
| PROJECT | Reading-Woodstock |
| POWER | ST. CD |
| TYPE | Dist. Roadway |
| CONTRACTOR | Miller Const. Co. |
| LOCATION | |
| YEAR | 1947 |
| LENGTH | 0.794 MI. |

| | | |
|------------------|-------|------|
| GROUND ELEVATION | DATUM | LINE |
| GRADE ELEVATION | DATUM | LINE |

| | |
|-----------------------|----------|
| 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. |

| | |
|--------------------|-------------|
| TITLE | 1" = 1 mile |
| TYPICAL | 1" = 2' |
| PLAN | 1" = 100' |
| PROFILE HORIZONTAL | 1" = 100' |
| PROFILE VERTICAL | 1" = 10' |
| CROSS SECTIONS | 1" = 5' |

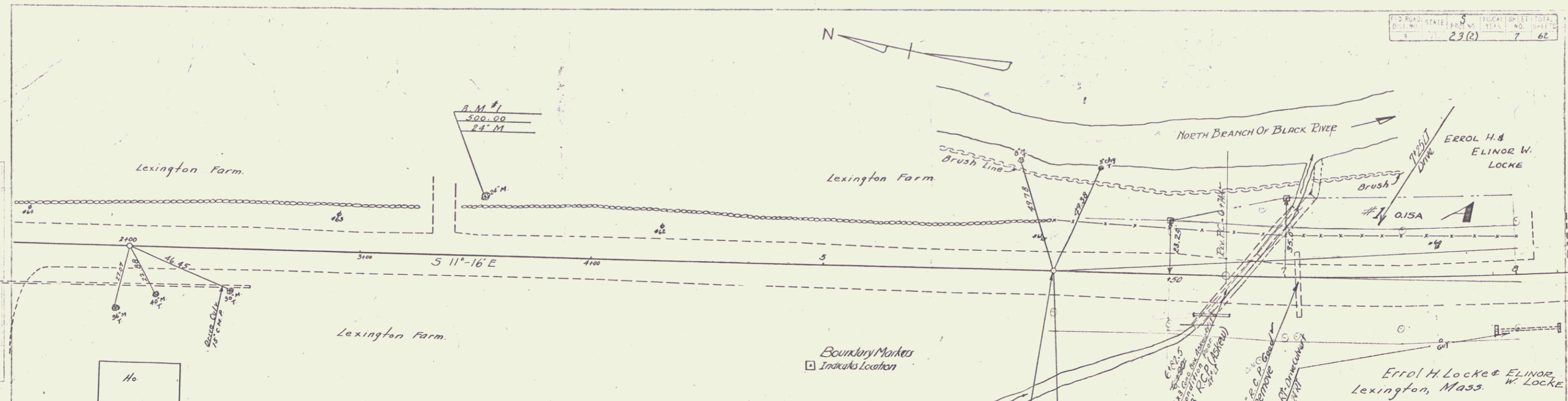


RIGHT-OF-WAY DIVISION APPROVED: 24 AUG 48
TOWN FILE APPROVED: H. E. Sargent
COMMISSIONER OF HIGHWAYS
PERPETUAL
Town of: UT 106
(To Be Returned To R.O.W. Division) Pin # DOR 247
Date 8/24/1948

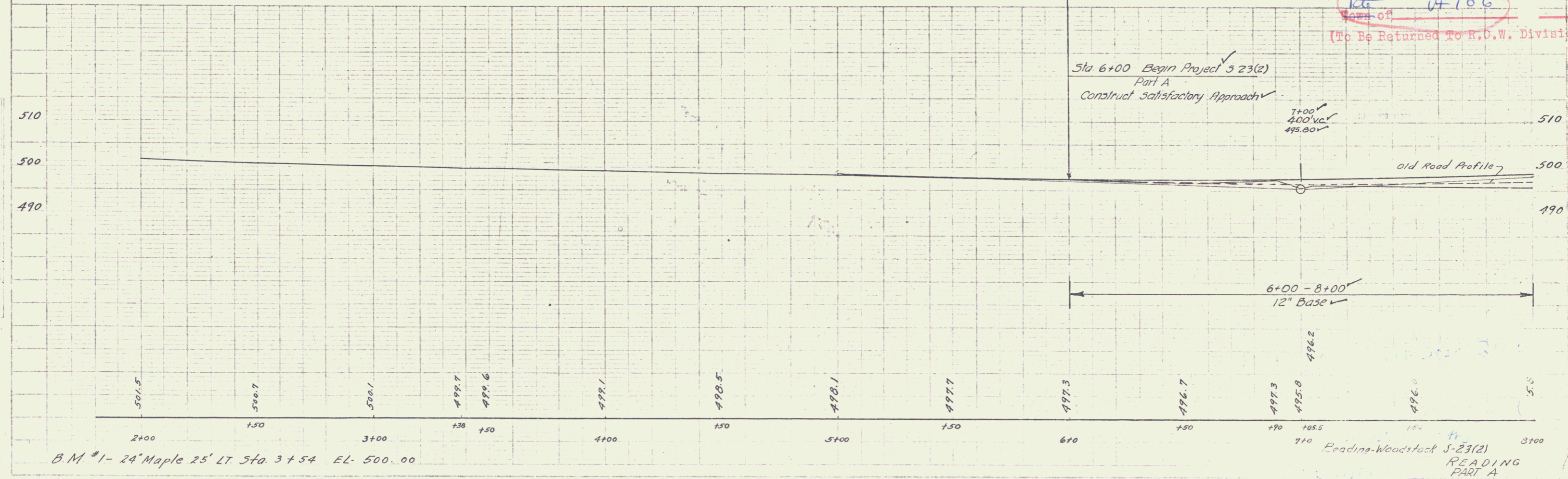
THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE PUBLIC ROADS ADMINISTRATION OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1939 AS APPROVED DECEMBER 29 1925 BY THE PUBLIC ROADS ADMINISTRATION, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

| | | |
|----------|-------------------------------|-------------------------|
| APPROVED | DISTRICT HIGHWAY COMMISSIONER | SERIES 5 No. 2302 FILED |
| APPROVED | DISTRICT HIGHWAY COMMISSIONER | SHEET 7 OF 62 |



| PARCEL | INSTRUMENT | DATE | GRANTOR | GRANTEE | RECORDED READING BOOK | PAGE | DATE | REMARKS |
|--------|------------|--------|----------------------------|---------|-----------------------|---------|--------|---------|
| #1 A | W.D.O.E. | 3-4-49 | ERROL H. & ELINOR W. LOCKE | STAFF | 33 | 351-352 | 3-8-49 | |



Rev. P.O.T. 6+00.0
 SURVEY P.I. 6+00
 = 5+997.
 Δ 4° 14' Lt.
 D 1°

RIGHT-OF-WAY DIVISION
 TOWN FILE
 PERPETUAL
 Rte 4-106
 (To Be Returned To R.O.W. Division)

Sta. 6+00 Begin Project 5-23(2)
 Part A
 Construct Satisfactory Approach

7+00
 400' VC
 495.00'

6+00 - 8+00
 12' Base

LEXINGTON
 A.R. Calloway 9-47

LEXINGTON
 A.R. Calloway 9-47

Reading-Woodstock 5-23(2)
 READING
 PART A
 Sh. # 7 of 62

PARCEL INSTRUMENT DATE GRANTOR GRANTEE
 #2 A W.D. 2-23-10 W.H. & CORDELIAM CANTON ST & VT
 RECORDED READING BOOK PAGE DATE REMARKS
 33 343-344 5-3-40

Note -
 The Monument is to be moved, stored and reset. This work to be done by the State.
 Moved on road at 10+116.81

| Sta | Pos | No |
|-------|-----|----|
| 10+93 | RT | 1 |
| 11+27 | LT | 1 |
| 13+68 | LT | 1 |
| 14+41 | LT | 1 |

23(2) 8 62

Δ 16° 32' Rt
 D 4'
 Surv. P.I. 13+80.8 -
 13+77.7
 = REV. P.O.T. 13+00.11



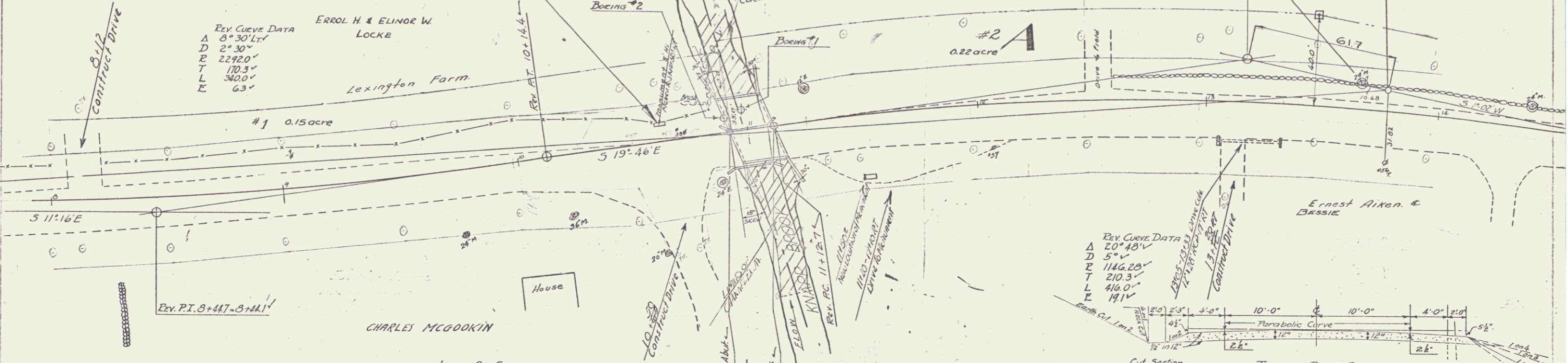
REV. CURVE DATA
 Δ 8° 30' Lt
 D 2° 30'
 R 2292.0'
 T 170.3'
 L 340.0'
 E 63'

ERROL H. & ELINOR W. LOCKE
 Lexington Farm

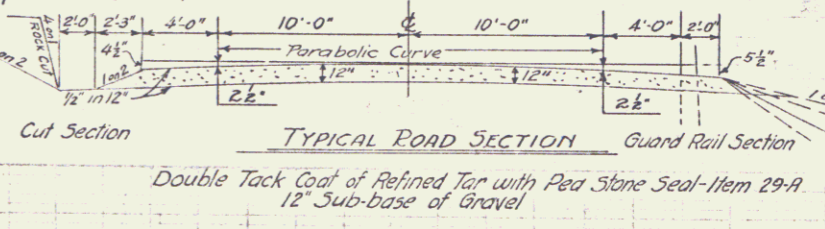
W. H. Canton & CORDELIAM CANTON

#2 0.22 acre

REV. P.I. 13+230'
 13+18.1'
 B.M. #2
 24" Maple
 EL. 503.81



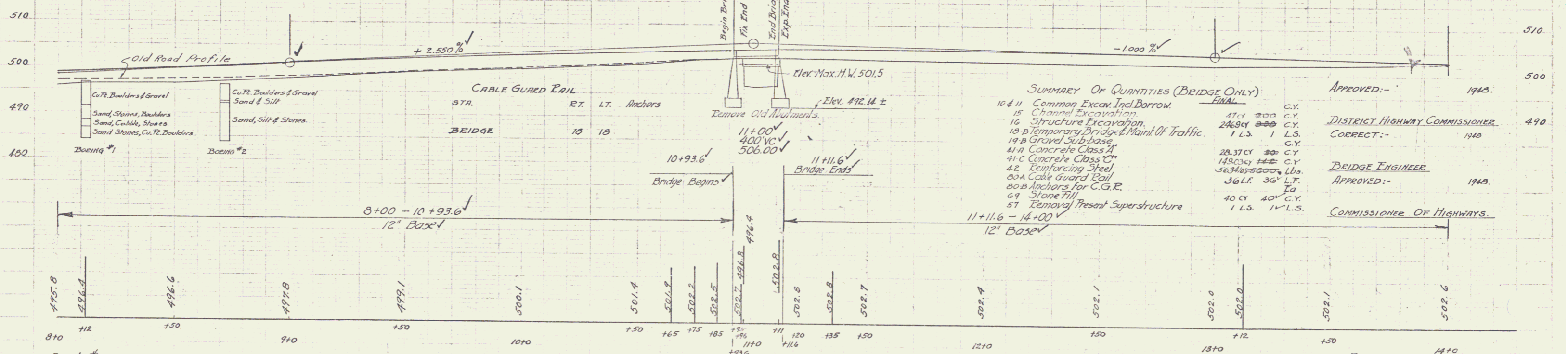
REV. CURVE DATA
 Δ 20° 48' V
 D 5'
 R 1146.28'
 T 210.3'
 L 416.0'
 E 19.1'



| TYPE | BRIDGE DATA | |
|----------------|-------------|----------|
| | OLD | PROPOSED |
| OVERALL LENGTH | 15'-9" | 15'-0" |
| CLEAR SPAN | 13'-9" | 15'-0" |
| CLEAR HEIGHT | 4'-6" | 7'-0" |
| ROADWAY WIDTH | 15'-0" | 30'-0" |
| WATERWAY | 63'-0" | 105'-0" |

LIST OF SHEETS

- 1-3 Plan & Profile
- 4 SLAG - 15'-30' ELEV. AT
- 5 SSB 2 - 10' Overall 30' L.D.Y., COIFY TO 15' SKEW
- 6 SB-5C-1 Cable Rail On Bridge For Span Above
- 7 SB-11 Barricades, Signs & Lights
- 8 SB-20 Details 'D' & 'J'



SUMMARY OF QUANTITIES (BRIDGE ONLY)

| ITEM | QUANTITY | UNIT |
|--|----------|------|
| 10-11 Common Exca. Incl. Borrow | 41.1 | C.Y. |
| 15 Channel Excavation | 246.9 | C.Y. |
| 16 Structure Excavation | 1 L.S. | L.S. |
| 18 Temporary Bridges & Maint. of Traffic | 1 L.S. | L.S. |
| 19 Gravel Sub-base | 28.37 | C.Y. |
| 41 Concrete Class A | 143.2 | C.Y. |
| 41 Concrete Class 10 | 56.34 | C.Y. |
| 42 Reinforcing Steel | 36.6 | L.F. |
| 80A Cable Guard Rail | 40 | L.F. |
| 81 Stone Fill | 40 | C.Y. |
| 87 Removal Present Superstructure | 1 L.S. | L.S. |

APPROVED: 1943
 DISTRICT HIGHWAY COMMISSIONER
 CORRECT: 1940
 BRIDGE ENGINEER
 APPROVED: 1943
 COMMISSIONER OF HIGHWAYS

B.M. #2 - 24" Maple 16' LT Sta 13+68 EL 503.81

Reading-Woodstock S-23(2)
 READING
 PART A

| Tree Removal Item 109 | | |
|-----------------------|-----|-----|
| Sta | Pos | No. |
| 15+18 | L1 | 1 ✓ |

PARCEL INSTRUMENT DATE GRANTOR GRANTEE RECORDED READING DATE REMARKS
 #3A W.D.O.E. 2-28-49 ERNEST & BESSIE AIKEN ST OF VT. 33 392 3-3-49

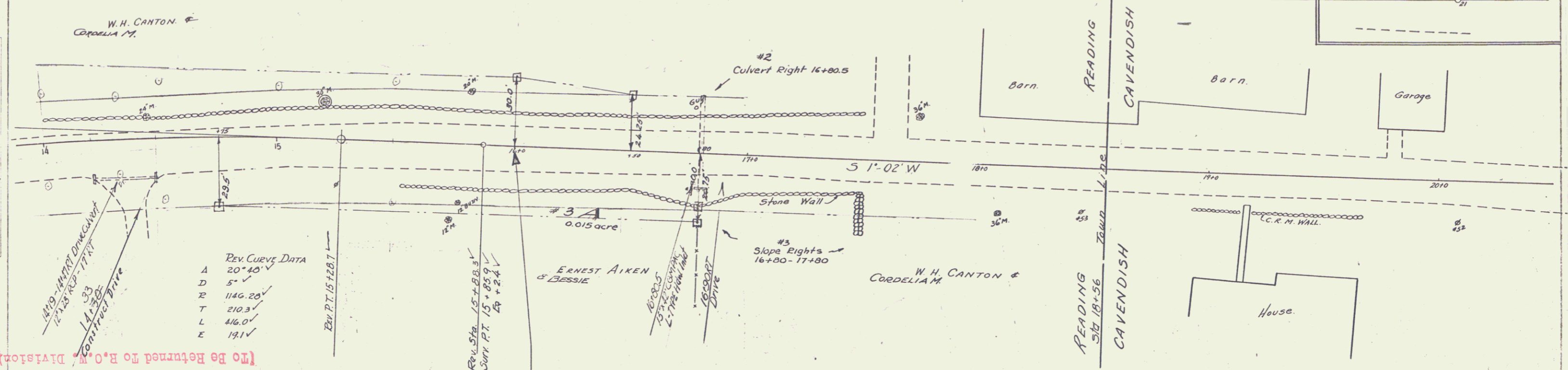
PLANNED STATE 5 FEDERAL SHEET DATA
 DIST NO 23(2) YEAR 9 62

B.M. #3
 15' E
 21' 492.63

POT 20197.8

PLAN
 H.R. CANTON & CO.
 110 N. Main St. Reading, Vt.

PLAN
 H.R. CANTON & CO.
 110 N. Main St. Reading, Vt.

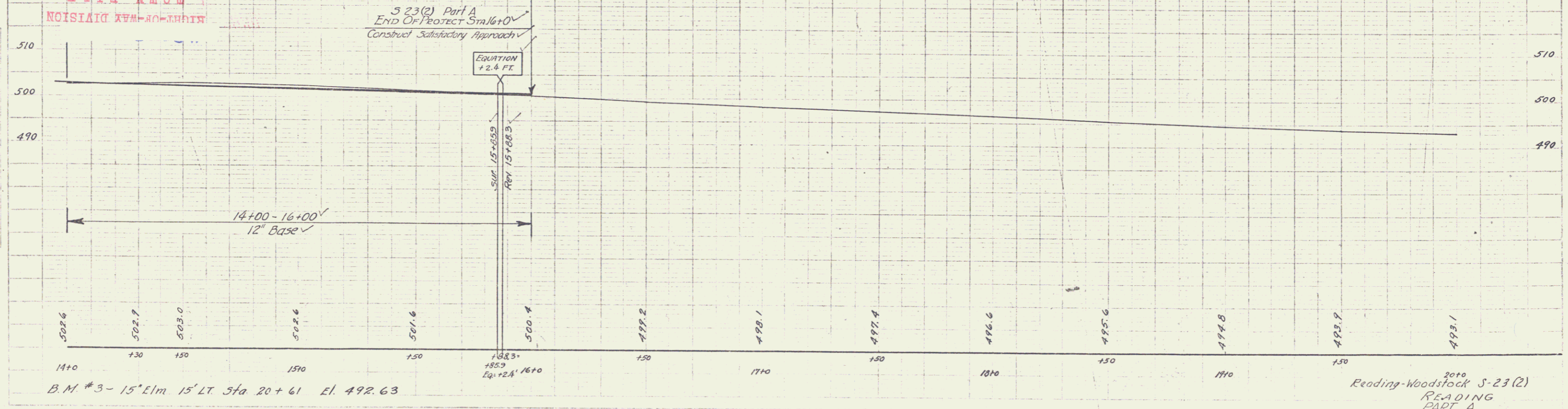


REV. CURVE DATA

| | |
|---|-----------|
| A | 20° 40' ✓ |
| D | 5' ✓ |
| R | 1146.20 ✓ |
| T | 210.3 ✓ |
| L | 416.0' ✓ |
| E | 19.1' ✓ |

(To be Returned to R.O.M. Division)

RIGHT-OF-WAY DIVISION
 DOWN FILE
 PERPETUAL
 PLAN OF



B.M. #3 - 15' E of 15' LT. Sta 20+61 El. 492.63

Reading-Woodstock S-23(2)
 READING
 PART A

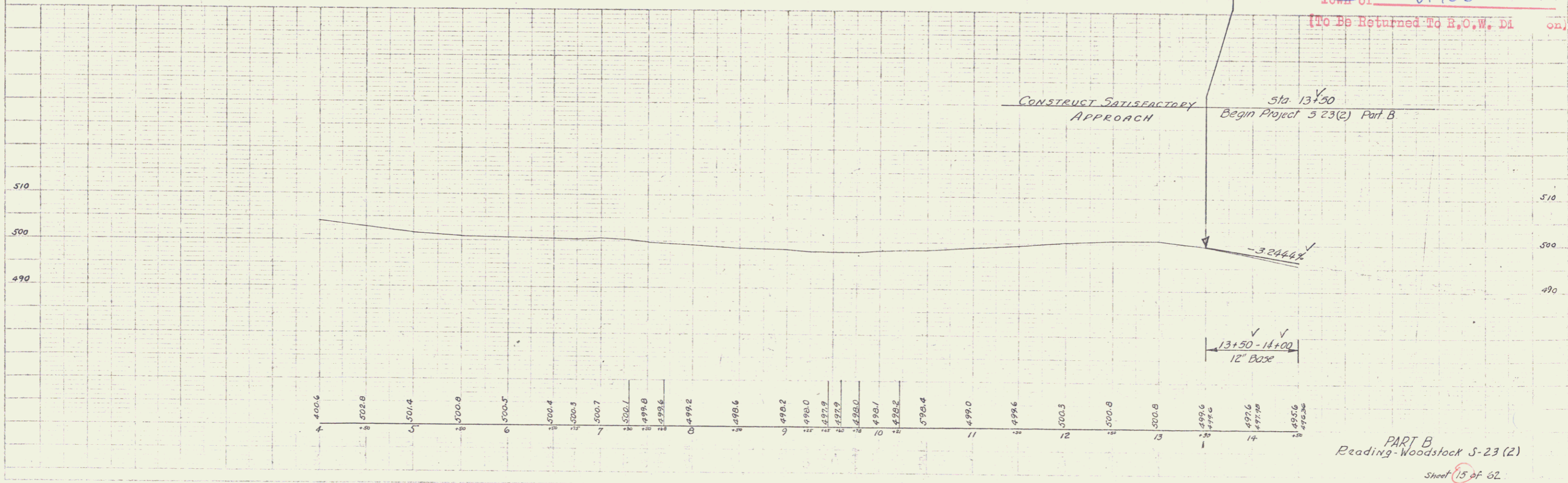
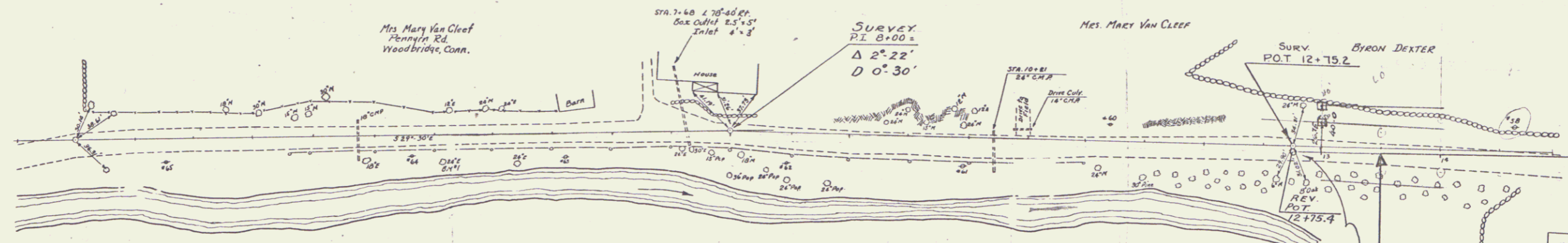
34 9 of 62

PLAN

| | |
|-------------|--|
| DATE | |
| BY | |
| CHECKED BY | |
| APPROVED BY | |

PROFILES

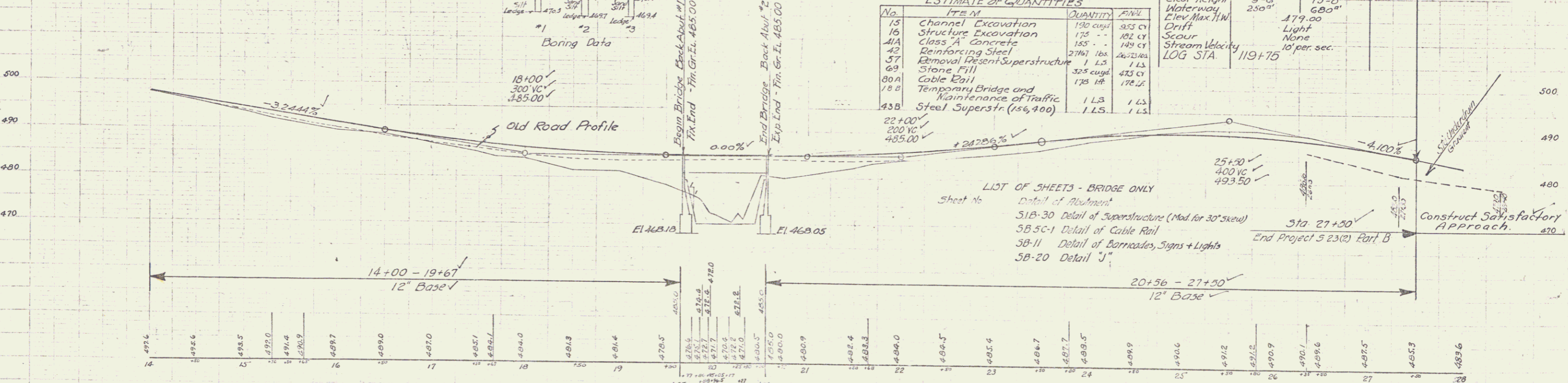
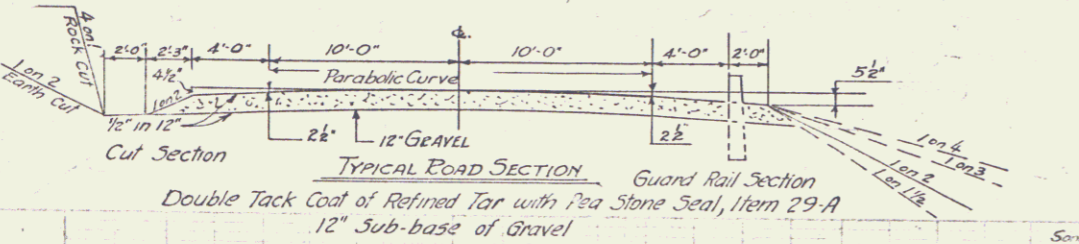
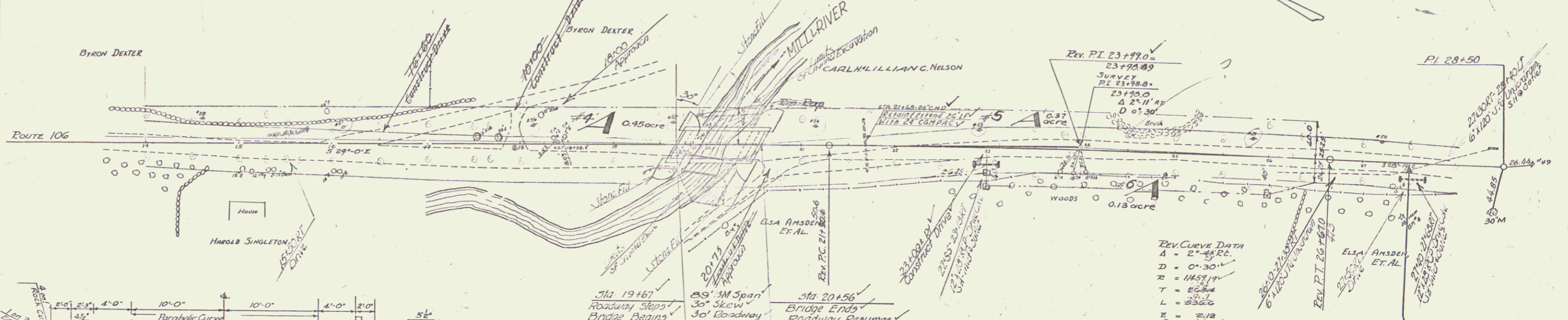
| | |
|-------------|--|
| DATE | |
| BY | |
| CHECKED BY | |
| APPROVED BY | |



PART B
Reading-Woodstock 5-23(2)
Sheet 15 of 62

| | | |
|-----------------------|-----|-----|
| 33+6 | RT | L |
| 33+24 | RT | L |
| Tree Removal Item 109 | | |
| 170 | Pos | 119 |
| 171.53 | LT | L |
| 171.77 | LT | L |

| PARCEL | INSTRUMENT | DATE | GRANTOR | GRANTEE | RECORDED | READING | DATE | REMARKS |
|--------|------------|---------|---------------------------|-----------|----------|---------|---------|---------|
| #4 | A | 3-1-49 | BYRON DEXTER | ST OF VT. | 33 | 349-350 | 3-7-49 | |
| #5 | A | 3-19-49 | CARL H. LILLIAN C. NELSON | | 33 | 355-378 | 3-22-49 | |
| #6 | A | 2-28-49 | ELSA AMSDEN | | 33 | 353-359 | 2-28-49 | |



| No. | ITEM | QUANTITY | UNIT |
|-----|---|----------|----------|
| 15 | Channel Excavation | 190 cuyd | 933 CY |
| 16 | Structure Excavation | 175 | 102 CY |
| 41A | Class "A" Concrete | 155 | 149 CY |
| 42 | Reinforcing Steel | 2774 | 2672 lbs |
| 57 | Removal Present Superstructure | 1 | 1 LS |
| 69 | Stone Fill | 325 cuyd | 433 CY |
| 80A | Cable Pile | 178 | 178 LF |
| 18B | Temporary Bridge and Maintenance of Traffic | 1 | 1 LS |
| 43B | Steel Superstr (156,400) | 1 | 1 LS |

| | |
|-------------|-----------|
| A | 2'-48" RC |
| D | 0'-30" |
| T | 145.71' |
| L | 263.4' |
| E | 2.18 |
| Do not bank | |

| Type | Present | Proposed |
|-----------------|---------|--------------|
| Roadway | 15'-0" | 30'-0" |
| Overall Span | 33'-0" | 39'-0" |
| Clear Span | 29'-6" | 24'-4 1/2" |
| Clear Height | 9'-6" | 13'-0" |
| Waterway | 250' | 680' |
| Elev. Max. H/W | | 477.00 |
| Drift | | Light |
| Scour | | None |
| Stream Velocity | | 10' per sec. |
| LOG STA. | 119+75 | |

LIST OF SHEETS - BRIDGE ONLY

Sheet No. Detail of Abutment

5B-30 Detail of Superstructure (Mod for 30' skew)

5B-5C-1 Detail of Cable Rail

5B-11 Detail of Barricades, Signs + Lights

5B-20 Detail "J"

Reading-Woodstock S-23(2)

PART B

ROUTE VT. 106

LOG STA. 119+75

Series S No. 23(2)

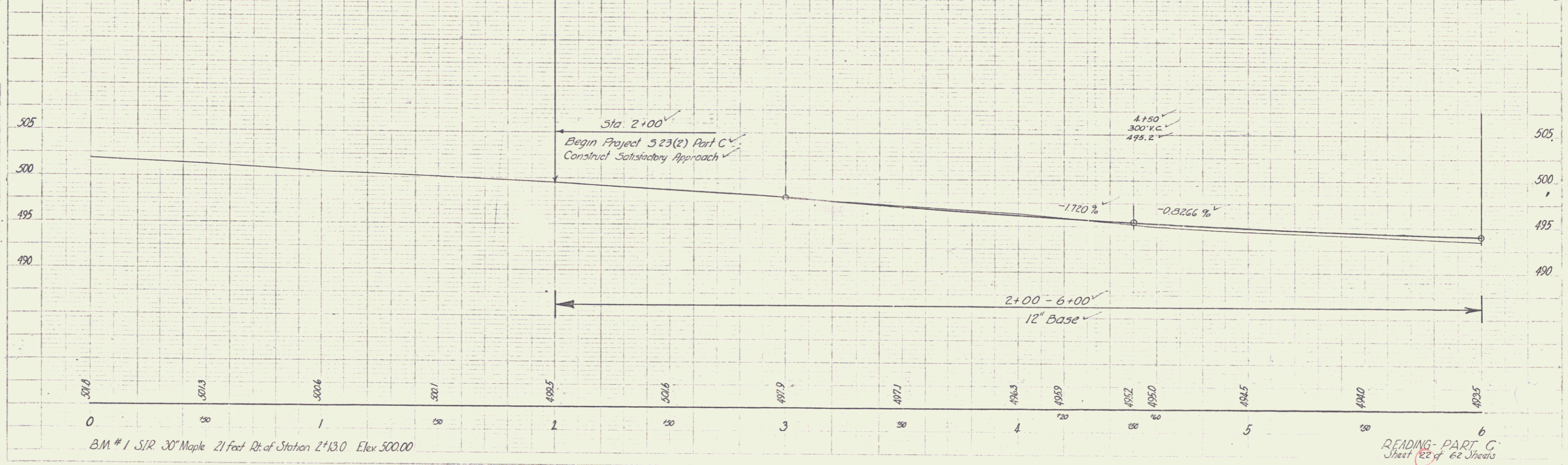
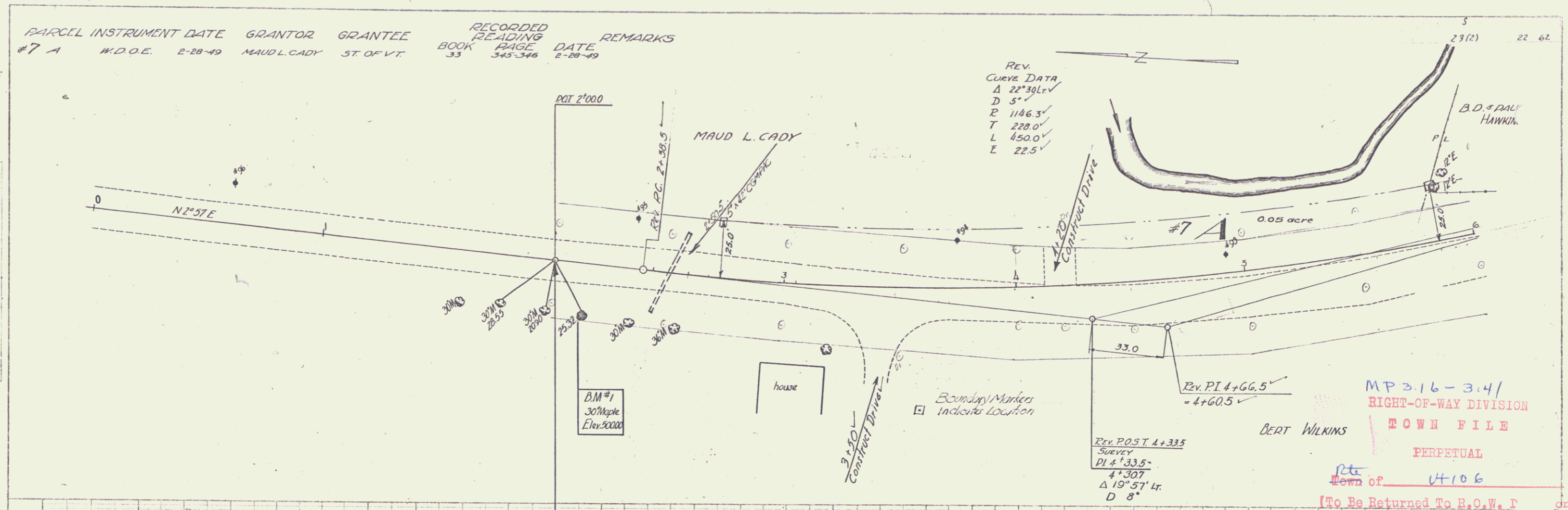
Sheet 16 of 62

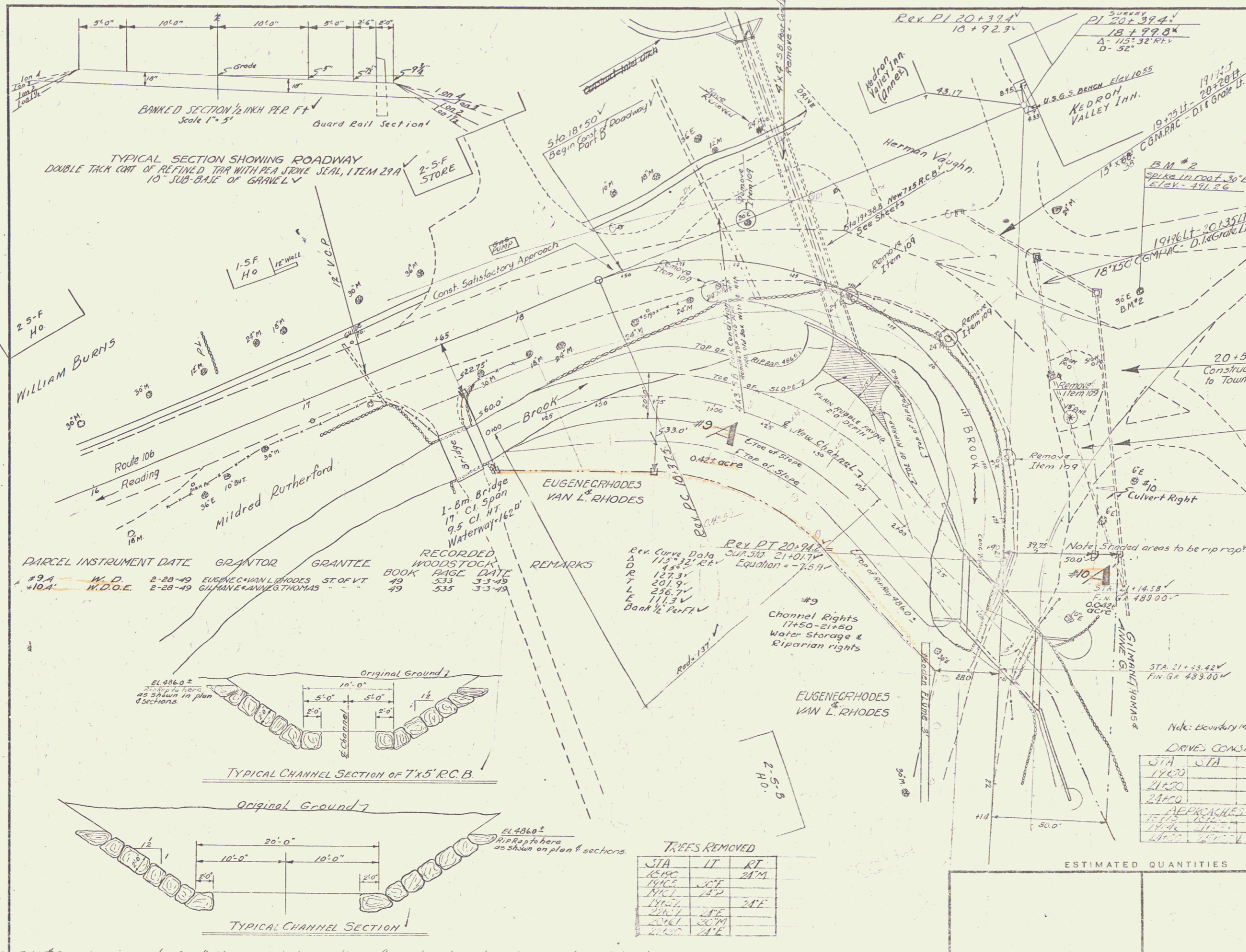
PARCEL INSTRUMENT DATE GRANTOR GRANTEE
 #7 A W.D.O.E. 2-28-49 MAUD L. CADY ST. OF VT.
 RECORDED READING DATE
 BOOK PAGE DATE
 33 345-346 2-28-49

REV. CURVE DATA
 Δ 22°30' ✓
 D 5' ✓
 E 1146.3 ✓
 T 228.0 ✓
 L 450.0 ✓
 E 22.5 ✓

PLAN
 DATE BOOK SHEET
 2/28/49 33 346

PROFILE
 DATE BOOK SHEET
 2/28/49 33 346





LIST OF QUANTITIES (BRIDGE ONLY)

| No. | ITEM | QUANTITY |
|-----|---|--------------|
| 15 | Channel Excavation | 15,120 cu ft |
| 16 | Structure Excavation | 236 cu ft |
| 18B | Temporary Br & Point of Traffic 1.5 1 L.S. | 1.5 |
| 41A | Concrete Class-A | 258.5 cu yd |
| 42 | Reinforcing Steel | 28,432 lb |
| 68 | Rip Rap for Bank Prot (HT) | 3,000 cu ft |
| | 547C Steel Beam Guard Rail With Steel Posts (Type I Flex Beam) | |
| | 547D Steel Beam Guard Rail With Steel Posts (Type II Safety Beam) | 129 LF |

LIST OF SHEETS

- Plan Sta 16+00 to 22+00
- Profile Sta 16+00 to 22+00
- Profile of Main 7x5 R.C.B. Channels
- Plan & Barre Details 7x5 R.C.B. Channels
- Rein Steel & Wing details 7x5 R.C.B.
- Plan of Bridge & Det of wings
- Detail of Bridge Railing
- Detail of Rein. Steel
- Std Struct Sht SB-20 Details A, C, D, E
- SB-11 Barricade Signs & Lights
- Detail of Bridge Railing & Posts

BRIDGE DATA

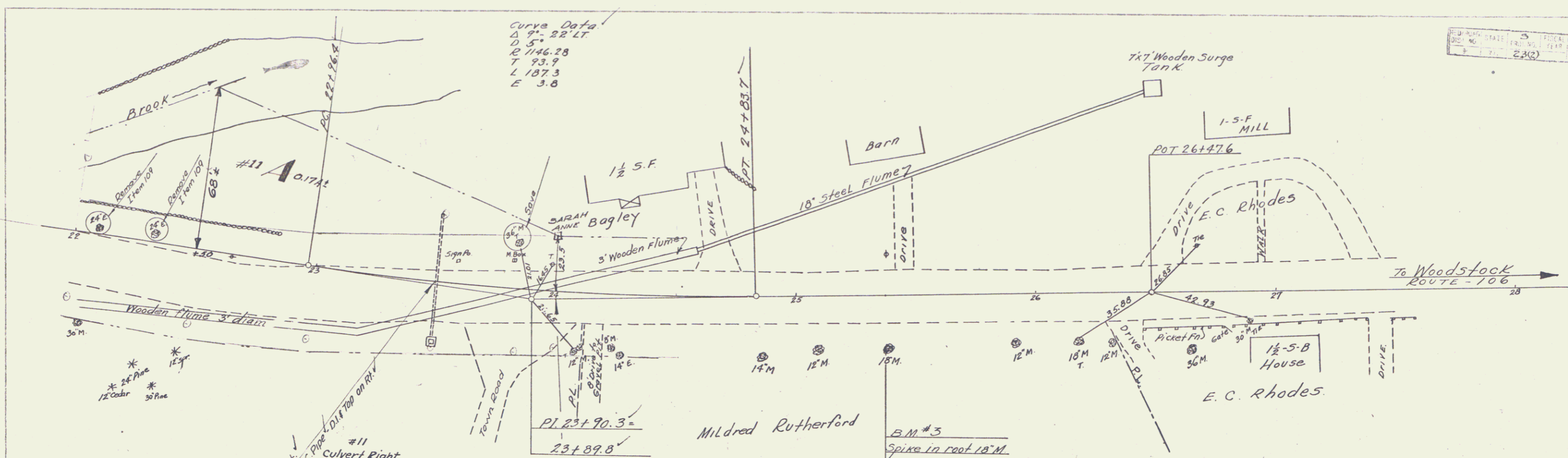
| TYPE | Present | Proposed |
|---------------------------------|--------------------------|----------|
| Overall Span along E Road | 26.1' | 34.8' |
| Roadway width face to face curb | 18.5' | 30.0' |
| Clear Span along E Road | 24.0' | 30.0' |
| Clear Span Normal to Stream | 22.0' | 27.2' |
| Clear Height to Low Bridge Seat | 11.2' | 13.0' |
| Max. High Water Elev. | 480.2' | 480.5' |
| Normal High Water Elev. | 477' | 477.5' |
| Waterway | 7x Low Br Seat 190.4' | 260.4' |
| | 7x Max. H.W. EL. 125.0' | 125.0' |
| | 7x Normal H.W. EL. 57.0' | 57.0' |
| Stream Velocity | Swift | |
| Drift | None | |
| Scour | None | |

RIGHT OF WAY DIVISION
TOWN FILE
PERPETUAL
Town of **Utah**
To Be Returned to R.O.W. Division
Part D
50. WOODSTOCK VILLAGE BRIDGE
SCALE = 1" = 20.0'

ESTIMATED QUANTITIES

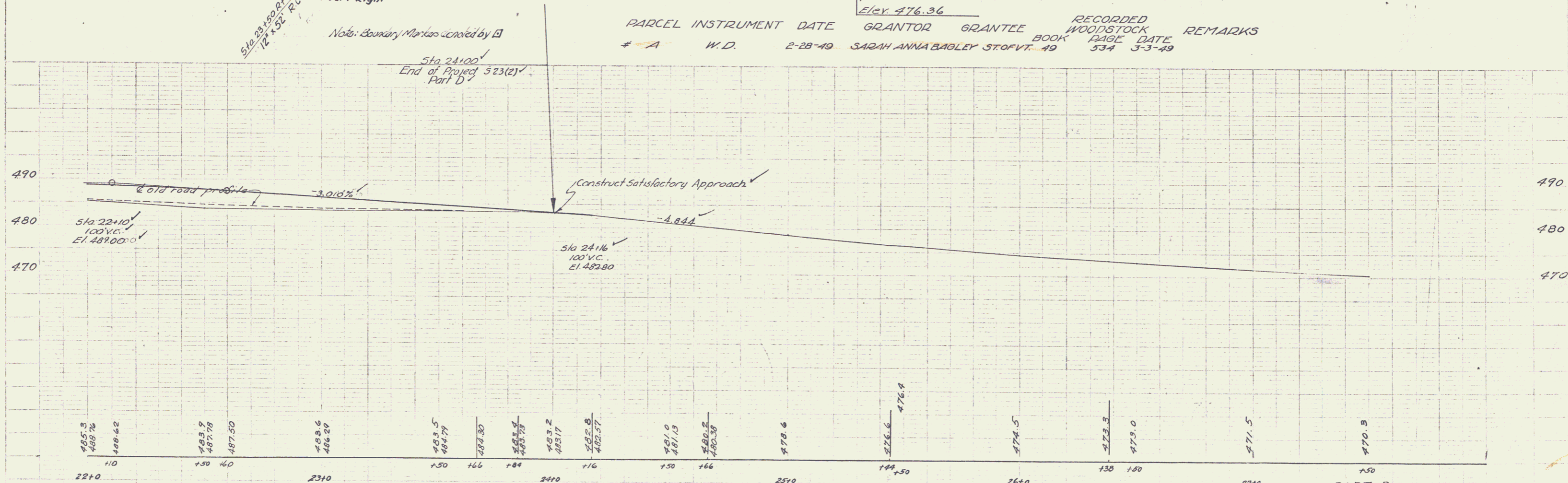
| STA | STA | LT | RT |
|-------|-----|----|----|
| 12600 | | 1 | |
| 12620 | | 1 | |
| 12600 | | | 1 |
| 12620 | | | 1 |

Surveyed by
Designed by
Drawn by H.E.C.
Traced by H.E.C.
Checked by L.M.B.
Series # 5 No. 23 (2) Filed
Scale 1" = 52 Sheets



Curve Data
 Δ 9° 22' LT
 R 146.28
 T 93.9
 L 187.3
 E 3.8

| PARCEL INSTRUMENT # | DATE | GRANTOR | GRANTEE | RECORDED BOOK | WOODSTOCK PAGE | REMARKS |
|---------------------|--------------|-------------------|------------|---------------|----------------|---------|
| # A | W.D. 2-28-49 | SARAH ANNE BAGLEY | STOFVT. 49 | 534 | 3-3-49 | |



B.M. #3 spike in root 18" M. - 21' RT. STA. 25+37 Elev. 476.36

PART D
 Reading, Woodstock S-23(2)
 SOUTH WOODSTOCK VILLAGE BR.
 5 23(2)
 sheet 32 of 62