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40-69	CROSS SECTIONS

STANDARD STRUCTURE SHEETS APPROVED BY THE CHIEF ENGINEER VERMONT STATE DEPT. OF HIGHWAYS

S 28	APRIL 26, 1941
S 30	NOV. 10, 1947
S 30A	APRIL 19, 1941
S 40	DEC. 18, 1945

STATE OF VERMONT  
STATE HIGHWAY DEPARTMENT

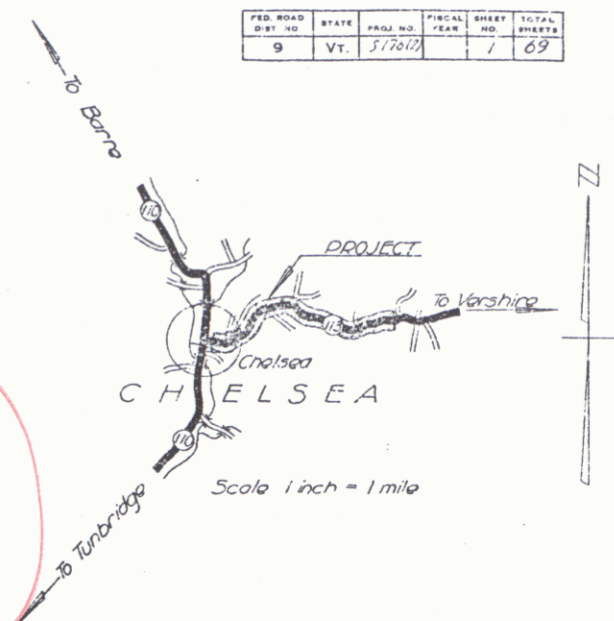
PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY

TOWN OF CHELSEA  
CHELSEA - FAIRLEE ROAD  
VERMONT ROUTE 113

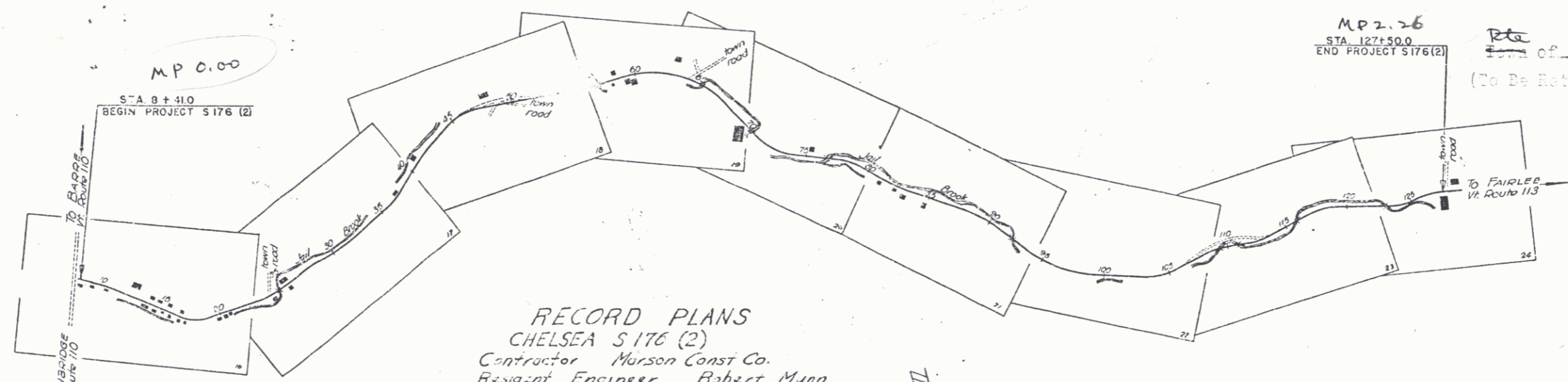
BEGINNING AT A POINT 50.4 FEET EASTERLY OF THE INTERSECTION OF VERMONT ROUTES 110 AND 113, AND EXTENDING EASTERLY 11,895.6 FT.

LENGTH OF PROJECT 11,895.6 FEET = 2.253 MILES

PROJECT: S176(2)  
Route: VT 113  
Town: Chelsea  
P.N. 00R447  
Date: 07/09/1948



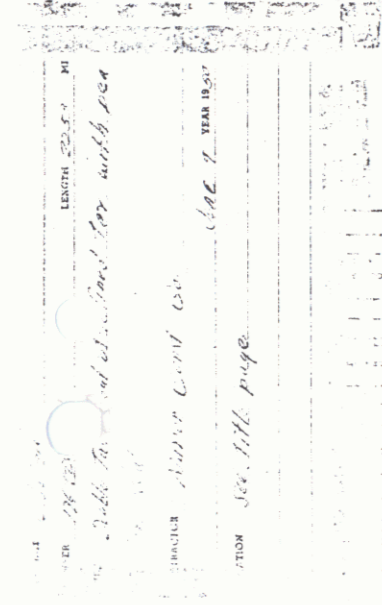
VT 113



RECORD PLANS  
CHELSEA S176(2)  
Contractor: Marson Const. Co.  
Resident Engineer: Robert Munn  
Inspector: Dan Borzone

RIGHT-OF-WAY DIVISION  
TOWN FILE  
PERPETUAL  
MP 2.26  
STA. 127+50.0  
END PROJECT S176(2)  
P.N. of 04113  
(To Be Returned To R.O.W. Division)

APPROVED: 26 JULY 48  
H.P. Sargent  
COMMISSIONER OF HIGHWAYS  
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD



**CURVE DATA**

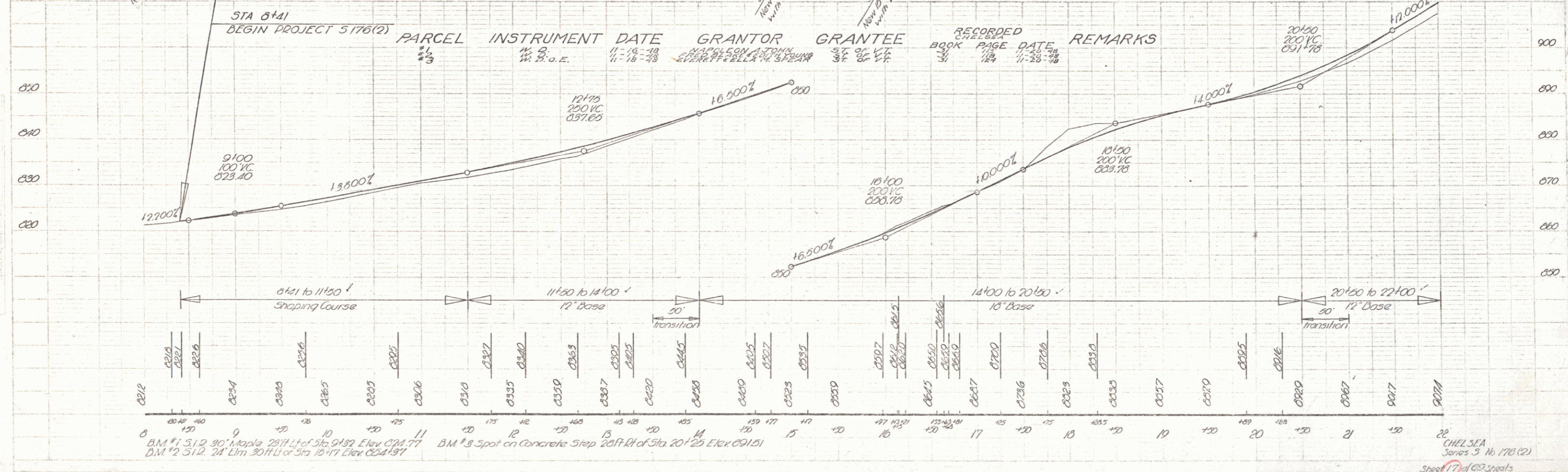
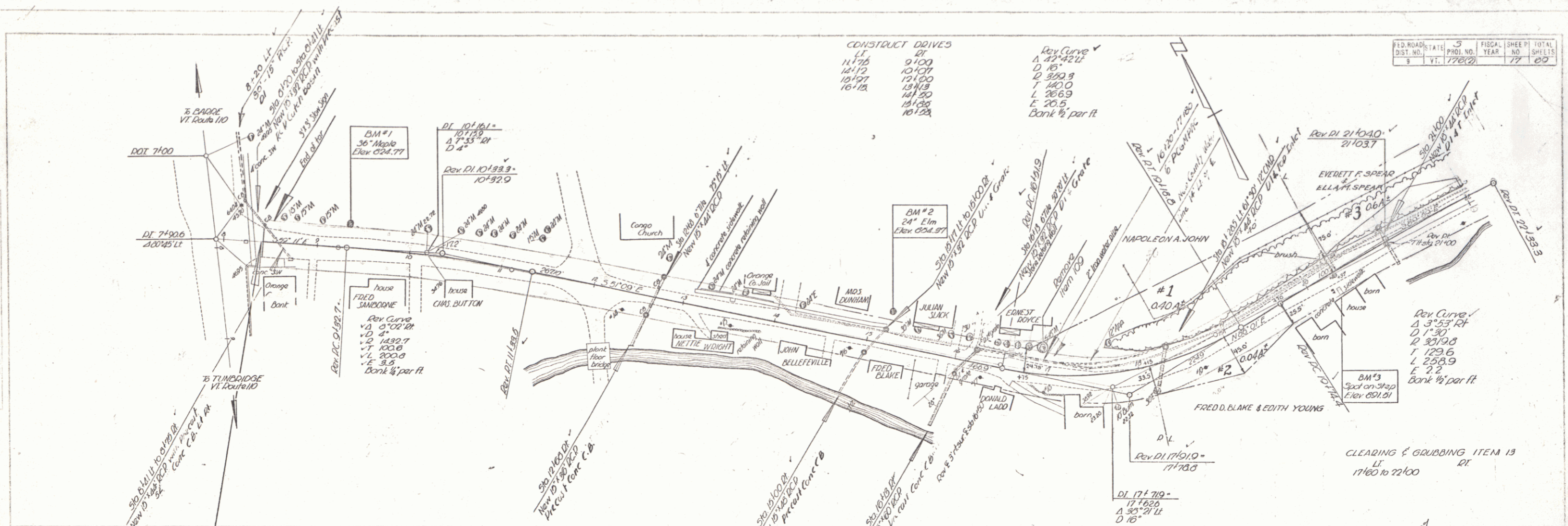
DEFLECTION ANGLE	Δ
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	P. I.
POINT OF CURVE	P. C.
POINT OF TANGENT	P. T.
POINT ON TANGENT	P. O. T.

**SCALES**

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

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 1936, AS APPROVED DECEMBER 20, 1936 BY THE PUBLIC ROADS ADMINISTRATION, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

APPROVED: [Signature] 1/1/48  
APPROVED: [Signature] 1/1/48  
HIGHWAY ENGINEER DISTRICT HIGHWAY COMMISSIONER  
SERIES S NO. 116 FILED  
SHEET 1 OF 69

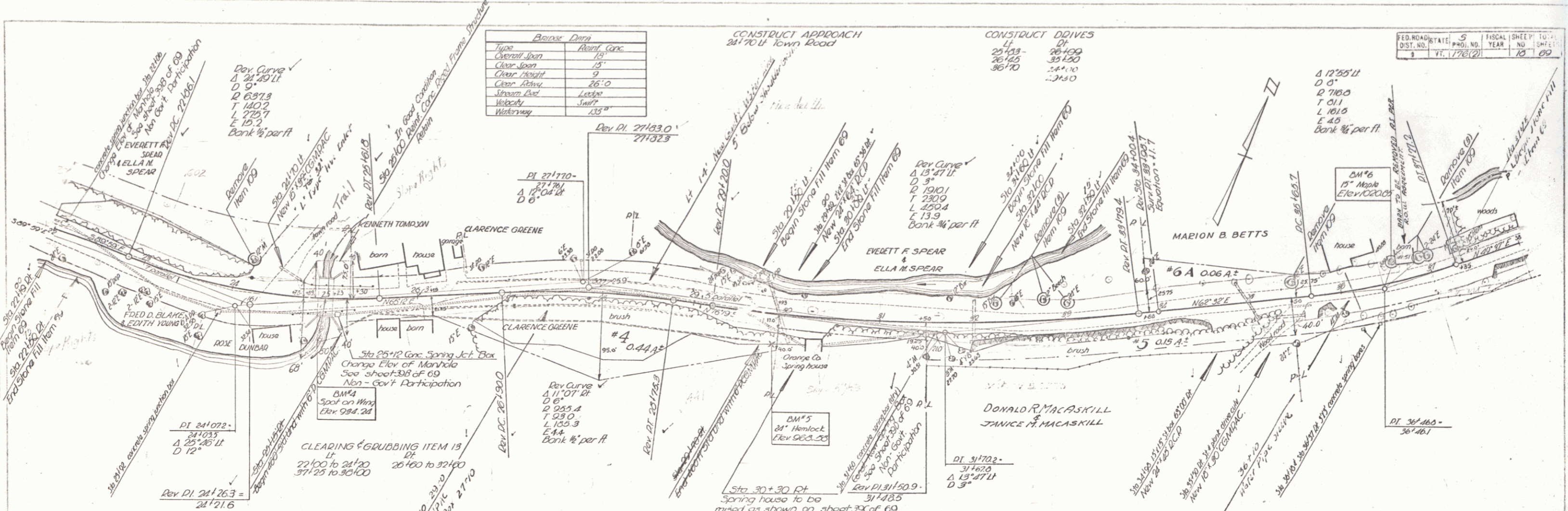


FILE NO. 176(2) SHEET NO. 17 TOTAL SHEETS 60

DATE: 11-25-78

BM #1 31.2 30' Maple 2811' Lot of Sta. 9+92 Elev. 624.77  
 BM #2 31.2 24' Elm 3011' Lot of Sta. 10+47 Elev. 624.97  
 BM #3 Spot on Step 2017' E of Sta. 20+20 Elev. 621.01

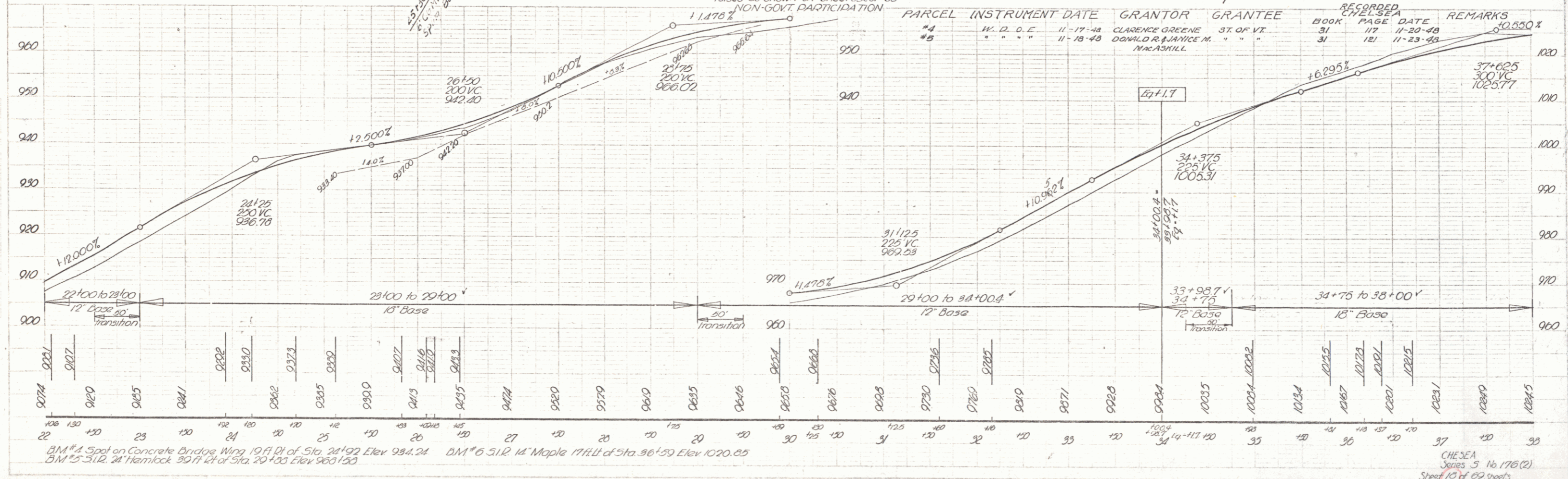
CHELSEA Series 3 No 176(2) Sheet 17 of 60 sheets



Bridge Data	Notes
Type	Reinforced Concrete
Clear Span	15'
Clear Height	9'
Clear Abut	26'-0"
Stream Bed	Level
Velocity	Swift
Waterway	15'

CONSTRUCT DRIVES	
25+13	26+00
26+15	25+50
26+70	24+70

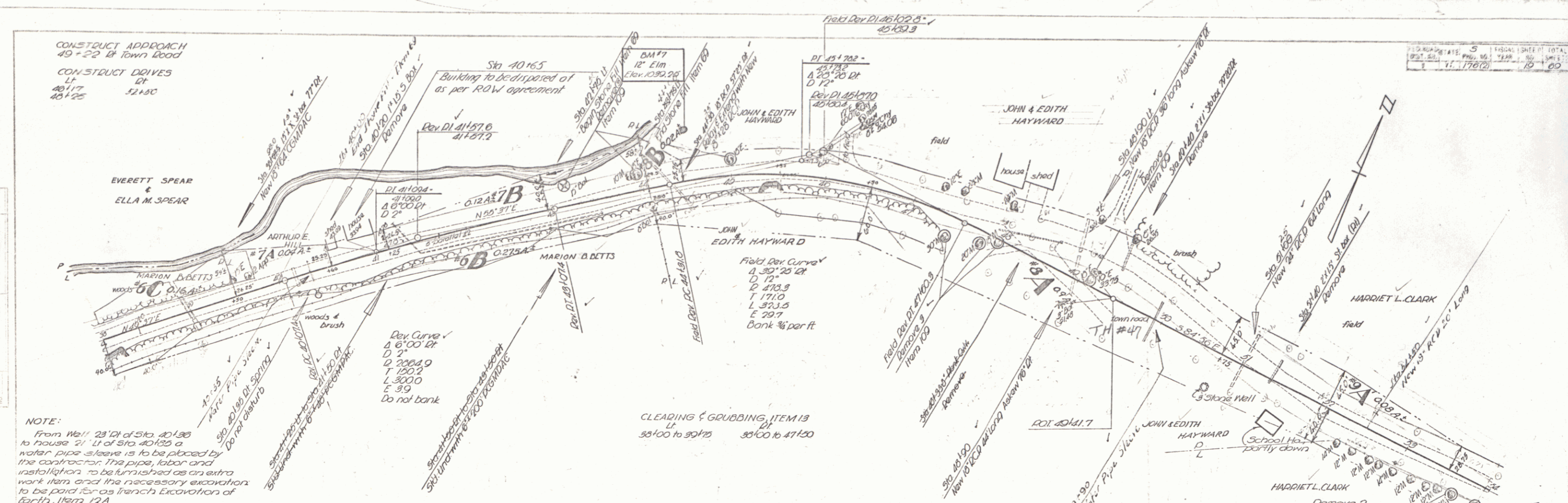
FED. ROAD STATE	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
5	1776(2)	1939	10	69



BM #4 Spot on Concrete Bridge Wing 19 ft Di of Sta. 24+92 Elev 984.24  
 BM #6 3 1/2" 14" Maple 17 ft Di of Sta. 36+39 Elev 1020.25

CHESEA Series 5 No 176(2) Sheet 10 of 69 sheets

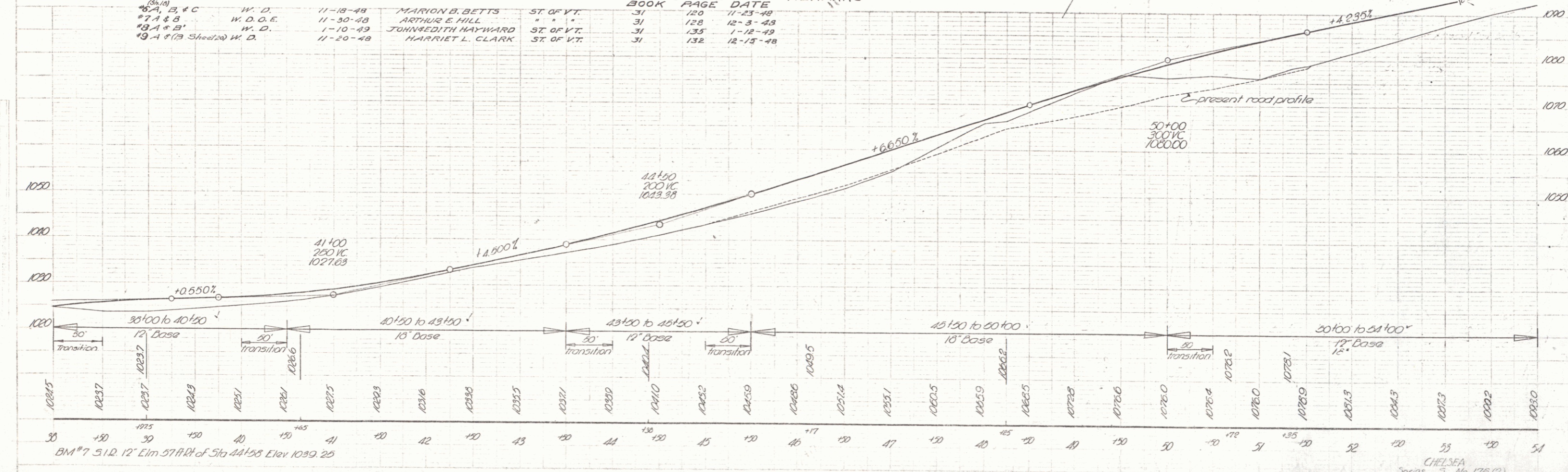
CONSTRUCT APPROACH  
49 + 22 to Town Road  
CONSTRUCT DRIVES  
40 + 17 42 + 30  
40 + 25 42 + 30



NOTE:  
From Well 23' DI of Sta. 40+30 to house 21' DI of Sta. 40+125 a water pipe sleeve is to be placed by the contractor. The pipe, labor and installation to be furnished as an extra work item and the necessary excavation to be paid for as trench excavation of earth, item 12A

CLEARING & GRUBBING, ITEM 13  
38+00 to 39+75 39+00 to 41+50

PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED BOOK	RECORDED PAGE	RECORDED DATE	REMARKS
8A, B, & C	W. D.	11-18-48	MARION B. BETTS	ST. OF VT.	31	120	11-23-48	
8A & B	W. D. & E.	11-30-48	ARTHUR E. HILL	"	31	128	12-3-48	
8A & B'	W. D.	1-10-49	JOHN & EDITH HAYWARD	ST. OF VT.	31	135	1-18-49	
8A & B' (3 Sheds)	W. D.	11-20-48	HARRIET L. CLARK	ST. OF VT.	31	132	12-15-48	



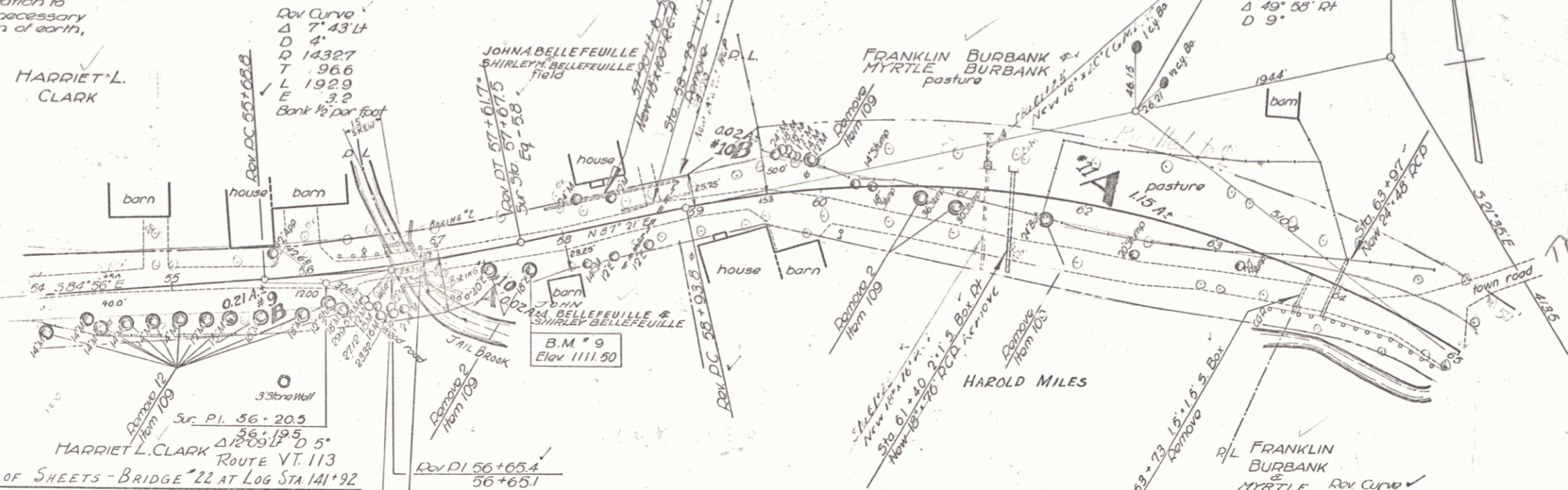
BM #7 51 D. 12' Elm 57' RR of Sta 44+95 Elev 1039.25

CHLSEA  
Series No 176 (2)  
Sheet 19 of 19 Sheets

STA 55+00  
 If pipe is contacted, pipe will be lowered by the contractor. Water pipe sleeve is to be placed by the contractor. The pipe, labor and installation to be furnished on a cost plus basis and the necessary excavation to be paid for as trench excavation of earth, Item 12A.

CONSTRUCT DRIVES  
 RIGHT  
 54+90 56+38  
 56+00 59+78  
 58+98 30

CONSTRUCT APPROACH  
 64+77 Lt Town Road



- SHEET No
- 1 SUPERSTRUCTURE - DWG 55BZ; 1 SPAN - 20'-0" o 1/2 o 30' ROADWAY, MODIFY TO 15' SKEW ON 5' CURVE
  - 2 RAILING SB-5C; MODIFY AS ABOVE, WITH 12" CURB HEIGHT
  - 3 ABUTMENTS - SLAG-15; FOR 30' ROADWAY, WINGS TO FIT. NO PILING REQUIRED. ABUT #1 - H-14'-0". ABUT #2 - H-15'-0"
  - 4 DWG 5820-DETAILS: 'D' & 'J'

BRIDGE DATA

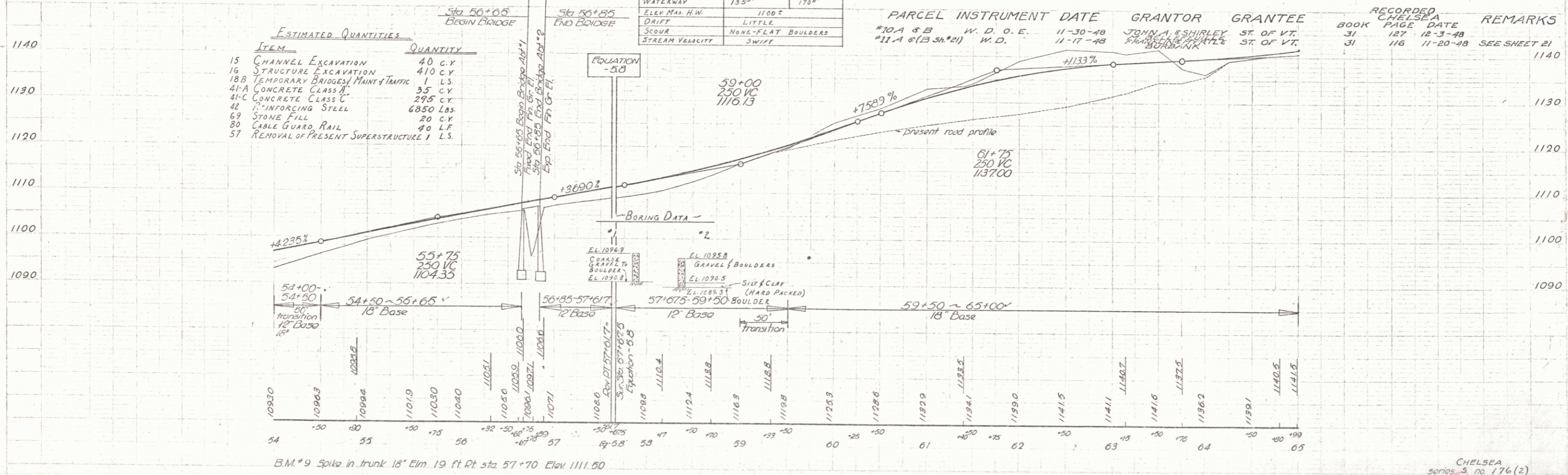
TYPE	PRESENT	PROPOSED
ROADWAY	18"	30"
OVERALL LENGTH	20'	20'
CLEAR SPAN	17.5'	17.25' A
CLEAR HEIGHT	8'-0"	10'
WATERWAY	13.5'	17.0'
ELLIP. MAX. H.W.	1100'	
DRIFT	LITTLE	
SCOUR	NONE - FLAT BOULDERS	
STREAM VELOCITY	SWIFT	

PARCEL INSTRUMENT DATE GRANTOR GRANTEE

INSTRUMENT NO.	DATE	GRANTOR	GRANTEE
#10A & B	11-30-48	W. D. O. E.	JOHN A. & SHIRLEY ST. OF VT.
#11A & B (23 Sh #21)	11-17-48	W. D.	FRANKLIN & MYRTLE ST. OF VT.

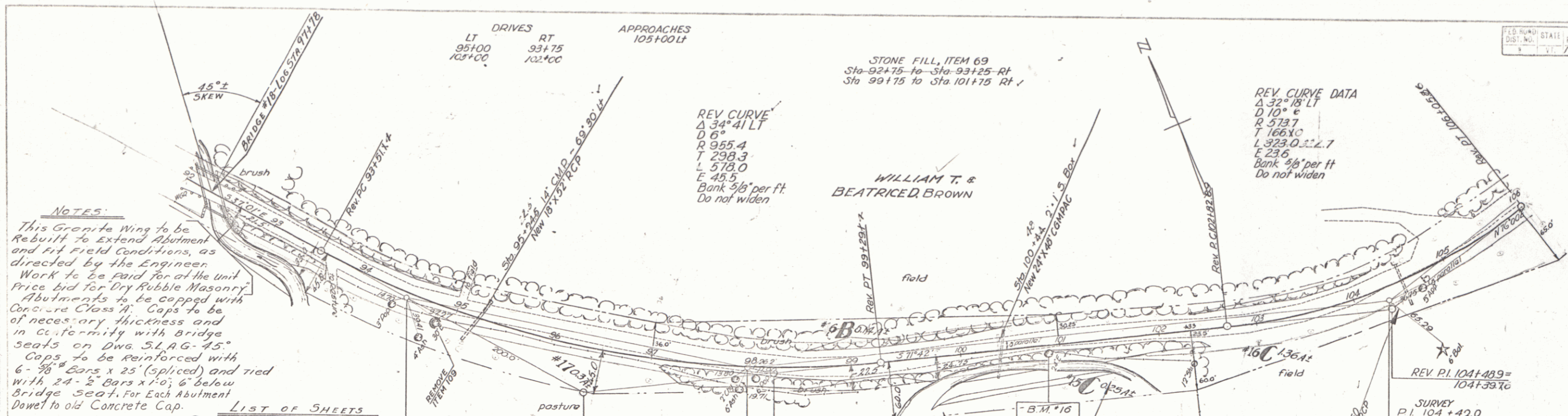
ESTIMATED QUANTITIES

ITEM	QUANTITY
15 CHANNEL EXCAVATION	40 C.Y.
16 STRUCTURE EXCAVATION	410 C.Y.
18B TEMPORARY BRIDGES, MAINT. TRAFFIC	1 L.S.
41-A CONCRETE CLASS A	35 C.Y.
41-C CONCRETE CLASS C	295 C.Y.
42 1" REINFORCING STEEL	6850 LBS.
69 STONE FILL	20 C.F.
80 CABLE GUARD RAIL	40 L.F.
57 REMOVAL OF PRESENT SUPERSTRUCTURE I L.S.	









**ESTIMATED QUANTITIES**

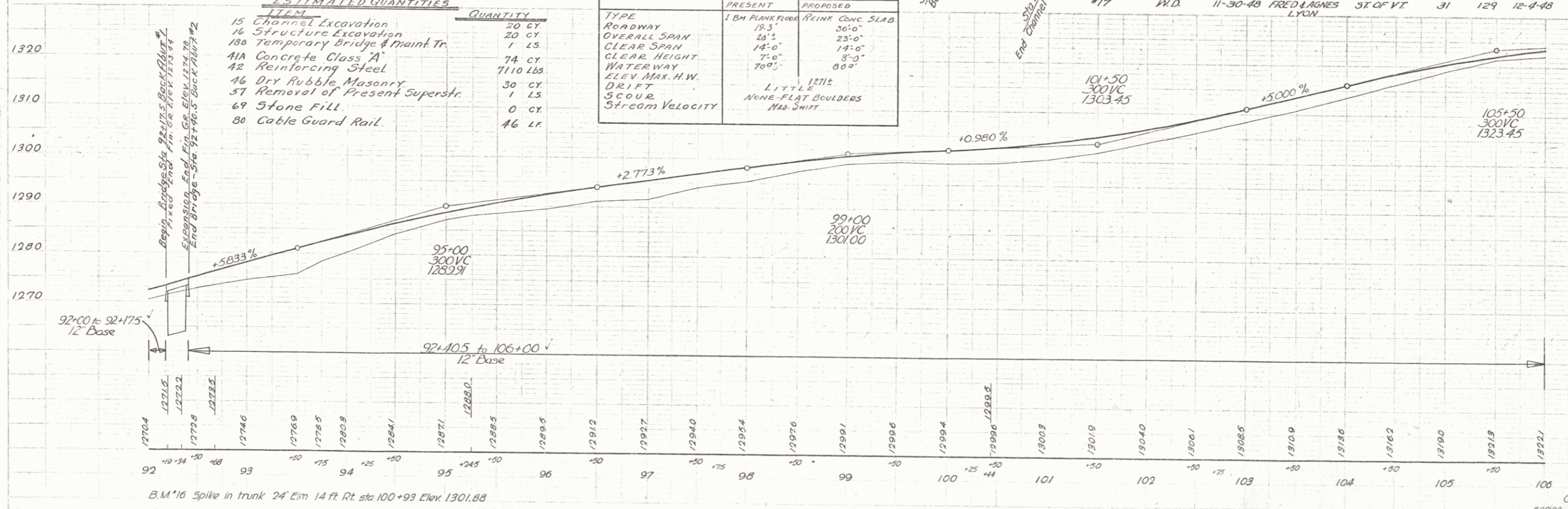
ITEM	QUANTITY
15 Channel Excavation	20 CY
16 Structure Excavation	20 CY
18a Temporary Bridge & Maint. Tr.	1 LS.
41A Concrete Class A	74 CY
42 Reinforcing Steel	7110 lbs.
46 Dry Rubble Masonry	30 CY
5T Removal of Present Superstr.	1 LS.
69 Stone Fill	0 CY
80 Cable Guard Rail	46 LF.

**BRIDGE DATA - BRIDGE #18**

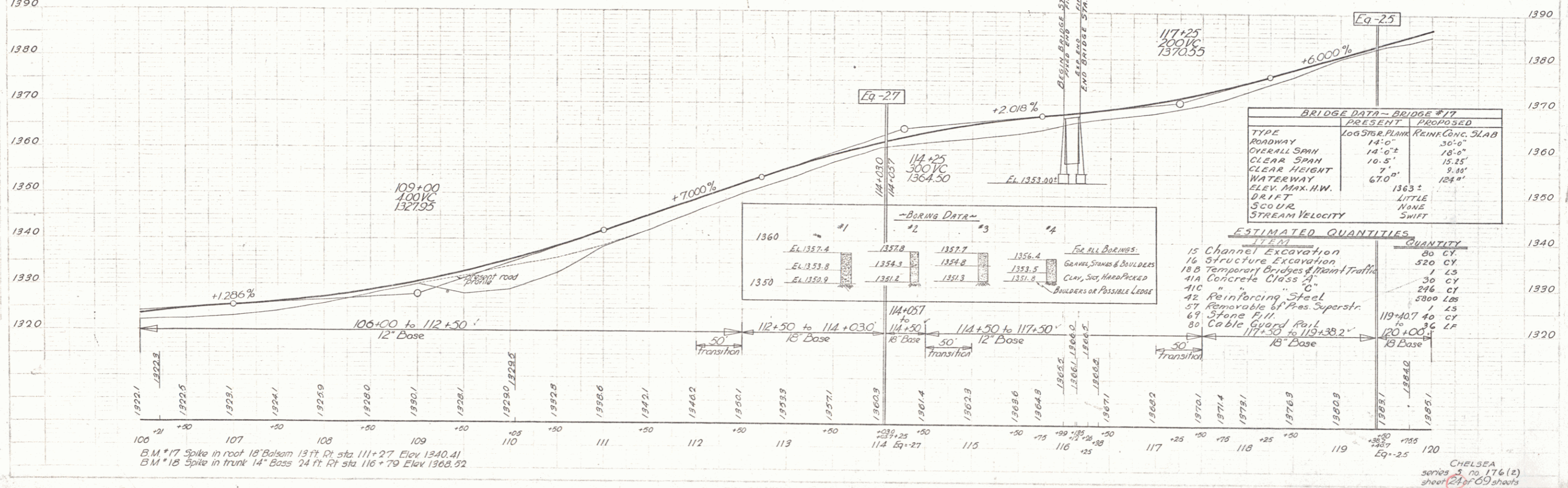
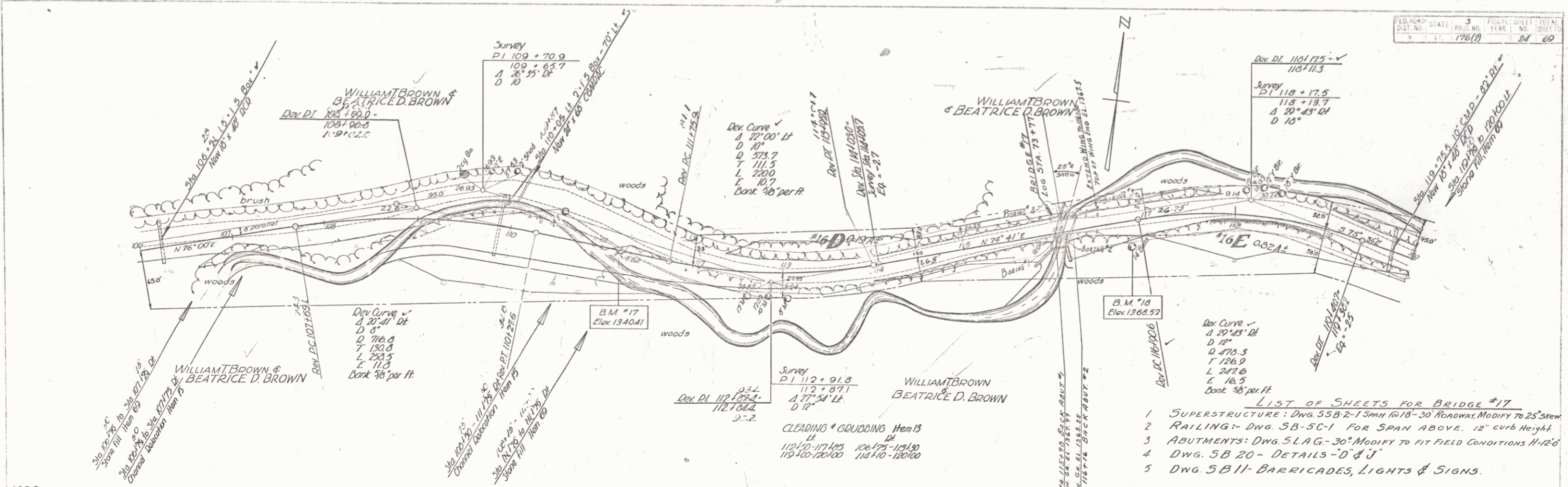
TYPE	BRIDGE DATA - BRIDGE #18	
	PRESENT	PROPOSED
ROADWAY	18M PLANK FLOOR	REINFC CONVC SLAB
OVERALL SPAN	19.3'	26'0"
CLEAR SPAN	20.5'	25'0"
CLEAR HEIGHT	14'0"	14'0"
WATERWAY	7'0"	8'0"
ELEV. MAX. H.W.	709.5'	80.0"
DRIFT	LITTLE	12712
SCOUR	NONE - FLAT BOULDERS	
Stream Velocity	MAD SWIFT.	

**PARCEL INSTRUMENT DATE GRANTOR GRANTEE RECORDED**

#17	W.D.	11-30-48	FRED & AGNES LYON	ST. OF VT.	CHELSEA	BOOK PAGE DATE	REMARKS
31	129	12-4-48					



Boundary  
 9-47



B.M. #17 Spike in root 18' Balsam 13 ft Rt. sta. 111+27 Elev. 1340.41  
 B.M. #18 Spike in trunk 14' Bass 24 ft Rt. sta. 116+79 Elev. 1368.52

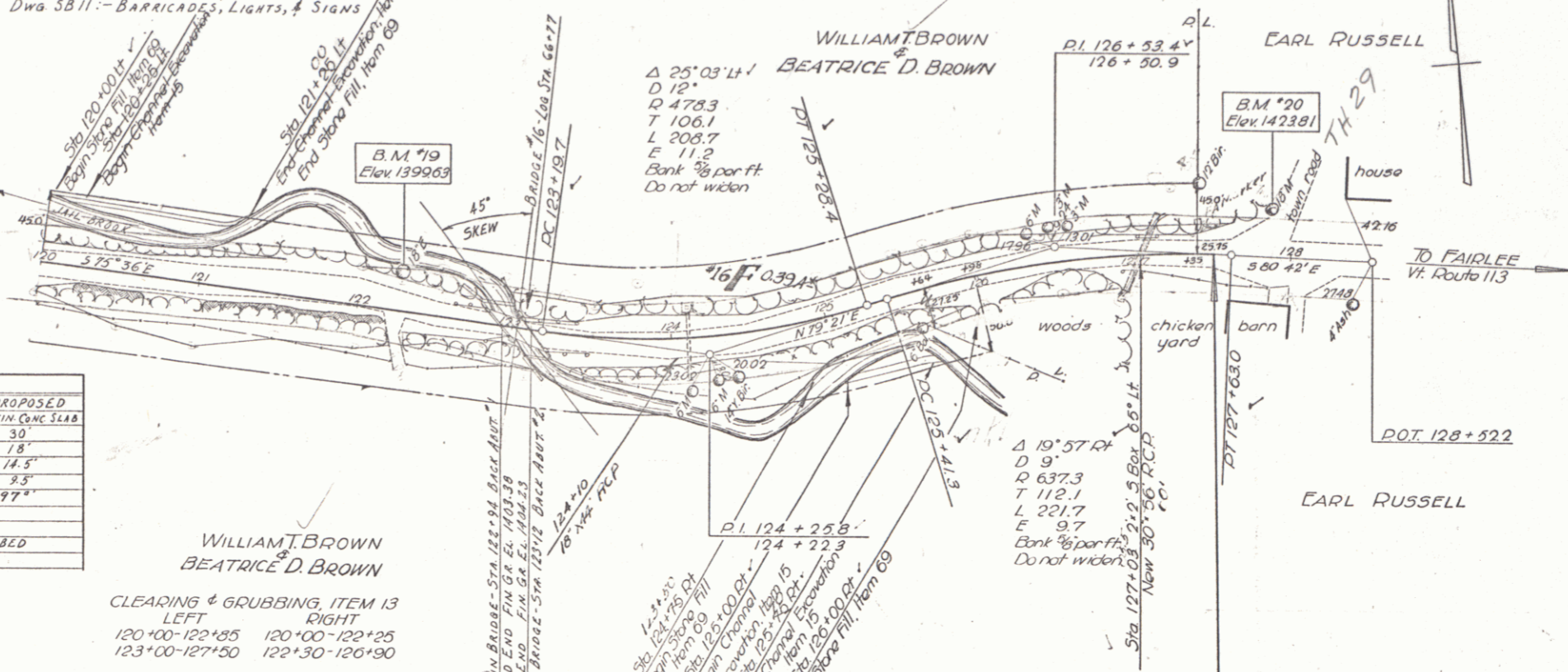
**LIST OF SHEETS FOR BRIDGE #16**  
 SUPERSTRUCTURE: DWG. 55B2-1 SPAN @ 18'  
 30' ROADWAY; MODIFY TO 45' SKEW  
 RAILING: DWG. 58-5C-1, FOR SPAN ABOVE, 12" CURB HEIGHT  
 ABUTMENTS: DWG. 58A-45' 14' 10"  
 DWG. 58Z0: DETAILS 'D' & 'J'  
 DWG. 5811: BARRICADES, LIGHTS, & SIGNS

CONSTRUCT DRIVES RIGHT  
 122+25  
 127+90

CONSTRUCT APPROACH  
 127+90 to Town Road

**BRIDGE DATA**

TYPE	PRESENT	PROPOSED
ROADWAY	LOG STRGK. PLANK	REIN. CONC. SLAB
OVERALL SPAN	20'	18'
CLEAR SPAN	14'	14.5'
CLEAR HEIGHT	6'	8.5'
WATERWAY	60"	77"
EL. MAX. R.W.	1399.1	
DRIFT	LITTLE	
SCOUR	NONE - LEDGE BED	
STREAM VELOCITY	SWIFT	



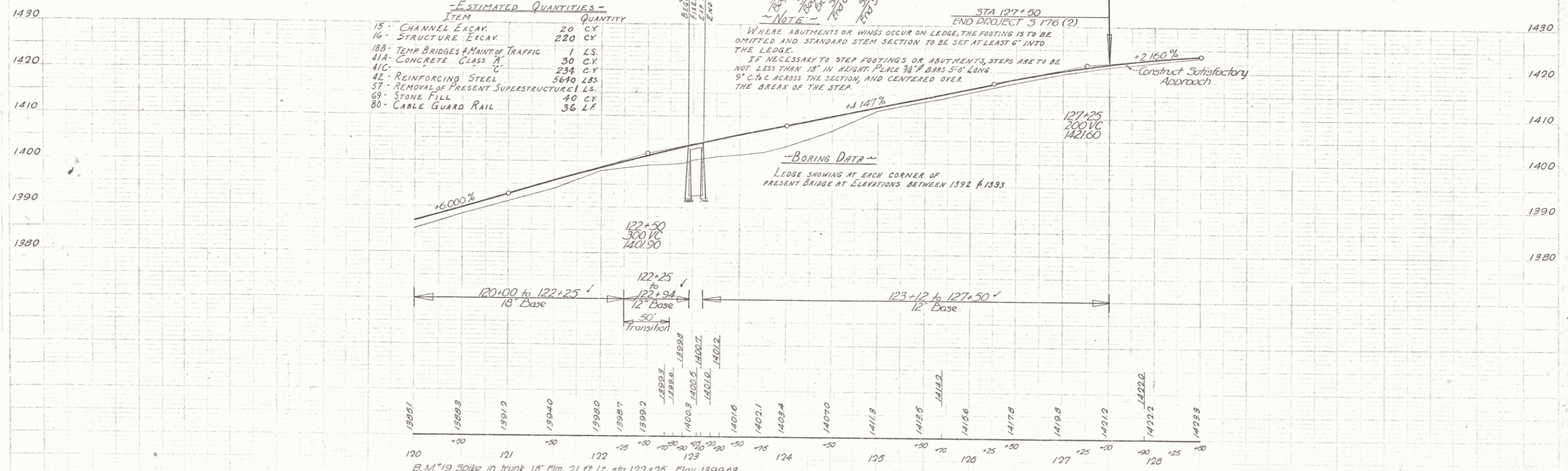
WILLIAMT BROWN  
 BEATRICE D. BROWN

CLEARING & GRUBBING, ITEM 13  
 LEFT  
 120+00-122+85 120+00-122+25  
 123+00-127+90 122+30-126+90

**ESTIMATED QUANTITIES**

ITEM	QUANTITY
15 - CHANNEL EXCAV.	20 CY
16 - STRUCTURE EXCAV.	220 CY
18B - TEMP BRIDGES & MAINT. OF TRAFFIC	1 LS.
41A - CONCRETE CLASS A	30 CY
41C - CONCRETE CLASS C	234 CY
42 - REINFORCING STEEL	5640 LBS.
57 - REMOVAL OF PRESENT SUPERSTRUCTURE	1 LS.
69 - STONE FILL	40 CY
80 - CABLE GUARD RAIL	36 LF.

**NOTE:**  
 WHERE ABUTMENTS OR WINGS OCCUR ON LEDGE, THE FOOTING IS TO BE OMITTED AND STANDARD STEM SECTION TO BE SET AT LEAST 6" INTO THE LEDGE.  
 IF NECESSARY TO STEP FOOTINGS OR ABUTMENTS, STEPS ARE TO BE NOT LESS THAN 18" IN HEIGHT. PLACE 3/4" BARS 5'-0" LONG 9" C.T.C. ACROSS THE SECTION, AND CENTERED OVER THE BREAK OF THE STEP.



**BORING DATA**  
 LEDGE SHOWING AT EACH CORNER OF PRESENT BRIDGE AT ELEVATIONS BETWEEN 1392 & 1393

B.M. #19 Spike in trunk 18" Elm 21 ft. Lt. sta. 122+25 Elev. 1399.63  
 B.M. #20 Spike in trunk 18" Maple 27 ft. Lt. sta. 127+87 Elev. 1423.81