

PROJ. NO. STATE PROJ. NO. YEAR  
 8 VT. P-26/33 1

**INDEX OF SHEETS**

SHEET NO. 1	TITLE PAGE
2	TYPICAL CROSS-SECTION OF IMPROVEMENT (UNIMPROVED)
3	DETAILS OF CONSTRUCTION SHEET (UNIMPROVED)
4	20' PLAN AND PROFILE SHEET
5	STANDARD STRUCTURE SHEET 3-80 PIPE CULVERTS
6	STANDARD STRUCTURE SHEET 3-21 BOX
7	STANDARD STRUCTURE SHEET 3-22 GUARD RAIL - UNDERDRAIN
8	STANDARD STRUCTURE SHEET 3-23 CURB & GUTTER
9-27	CROSS SECTIONS

**STATE OF VERMONT  
 STATE HIGHWAY DEPARTMENT**

**PLAN AND PROFILE OF PROPOSED  
 STATE HIGHWAY**

FEDERAL AID PROJECT

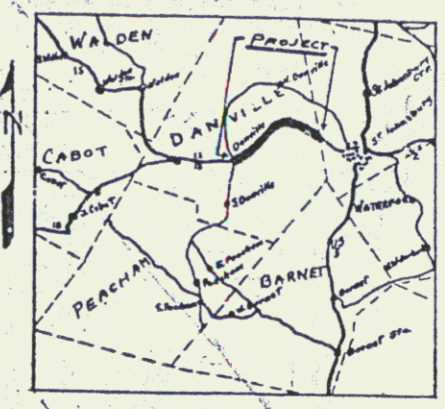
**TOWN OF DANVILLE**

Project # F R-26

**MONTPELIER - ST. JOHNSBURY ROAD**

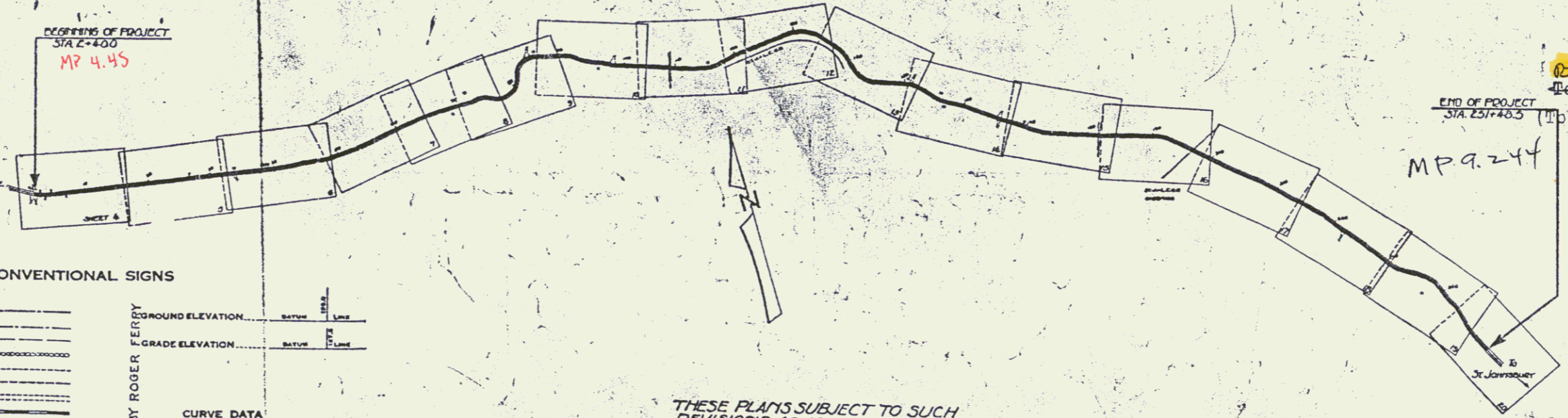
FROM THE END OF F.A.P. 95-A IN DANVILLE VILLAGE  
 EAST 4.750 MILES TO THE ST. JOHNSBURY TOWN LINE

LENGTH OF PROJECT 25,082.9 FT. = 4.750 MILES



RECORD PLANS

SCALES:  
 PLAN 1 IN. = 50 FT.  
 VERTICAL 1 IN. = 10 FT.  
 HORIZONTAL 1 IN. = 50 FT.



FOR ANY FURTHER INFORMATION CONCERNING  
 PARTICULARITIES, AMOUNTS OR OTHER DETAILS  
 RELATIVE TO THIS PROJECT MAY BE FOUND IN  
 EITHER THE FIELD BOOKS OR THE ESTIMATE  
 FILE.

RIGHT-OF-WAY DIVISION  
 TOWN FILE  
 PERPETUAL

END OF PROJECT  
 STA. 251+48.5  
 To Be Returned To R.O.W. Div

APPROVED May 7, 1931  
 R. J. Johnson  
 Commissioner of Highways  
 SUBMITTED BY ORDER OF THE STATE HIGHWAY DEPARTMENT

Pin # 99R133

RECOMMENDED  
 DISTRICT ENGINEER  
 RECOMMENDED FOR APPROVAL  
 CHIEF ENGINEER  
 APPROVED  
 DIRECTOR - BUREAU OF HIGHWAYS

THESE PLANS SUBJECT TO SUCH  
 REVISIONS AS MAY BE REQUIRED  
 BY THE BUREAU OF PUBLIC  
 ROADS OR THE CHIEF ENGINEER.

**CONVENTIONAL SIGNS**

COUNTY LINE	GROUND ELEVATION	DATE	LINE
TOWN LINE	GRADE ELEVATION	DATE	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			
TREE			
MEADOW			

**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.

DANVILLE 24-R  
 FORCE ACCOUNT  
 YEAR BUILT 1931  
 RECORD PLANS BY ROGER FERRY

CORRECT MAY 7 1931  
 R. J. Johnson  
 Liquid Engineer  
 SERIES F. NO. 6  
 SHEET 1 OF 1

**WOOD GUARD RAIL REQUIRED**

CULVERT STATION	LEFT	RIGHT
9+88	24'	24'

**CABLE-GUARD-RAIL REQUIRED**

STATIONS	LENS	CONCRETE	BY LENGTH
9+88-10+44	RT	112'	40' 182'

**NOTE**  
Where box Culverts are to be extended, extension is to be done to existing structure with  $\frac{3}{8}$ " deformed bars 3' long, 12"  $\phi$ . These dowels to extend into existing structure a minimum of 12 inches.

**CULVERT REPAIRS REQUIRED**

**CULVERT REPAIRS REQ.**

STA.	L OR	COMP.	STEEL	12	12	DI
				CGMT	VITILE	CRATE
2+60	R	0.5 CY	16"			
3+01	R	0.3 CY	24"		6" Rebar	
3+28	R	0.7 CY	40"		6" Rebar	
3+28-3+54	R	0.7 CY	40"	28		
4+88-6+45	R	1.0 CY	70"		18"	JOHN THORNER
7+00-7+12	R				12"	1 CY
8+00-8+40	R				12"	1 CY

**GRouted COBBLE GUTTER REQUIRED**

STATIONS	L OR	LENGTH	WIDTH	AREA
4+88-5+75	R	31'	4"	41.89 YDS
5+75-5+94	R	19'	4"	31'

**BITUMINUS MACADAM GUTTER REQUIRED**

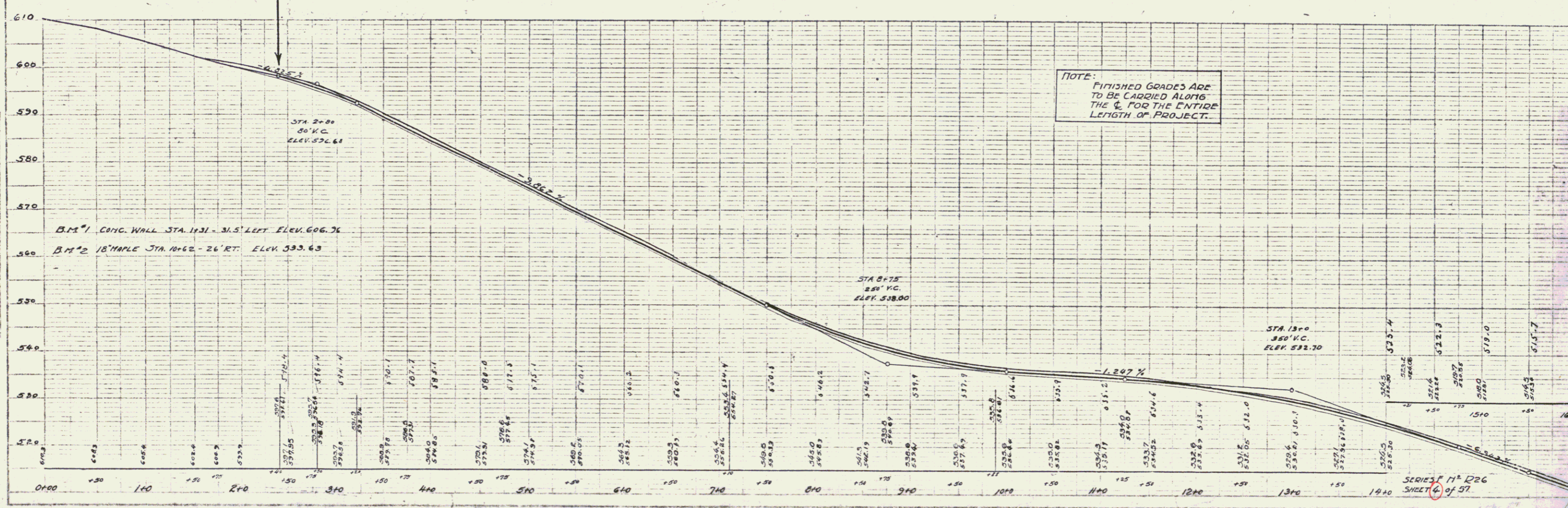
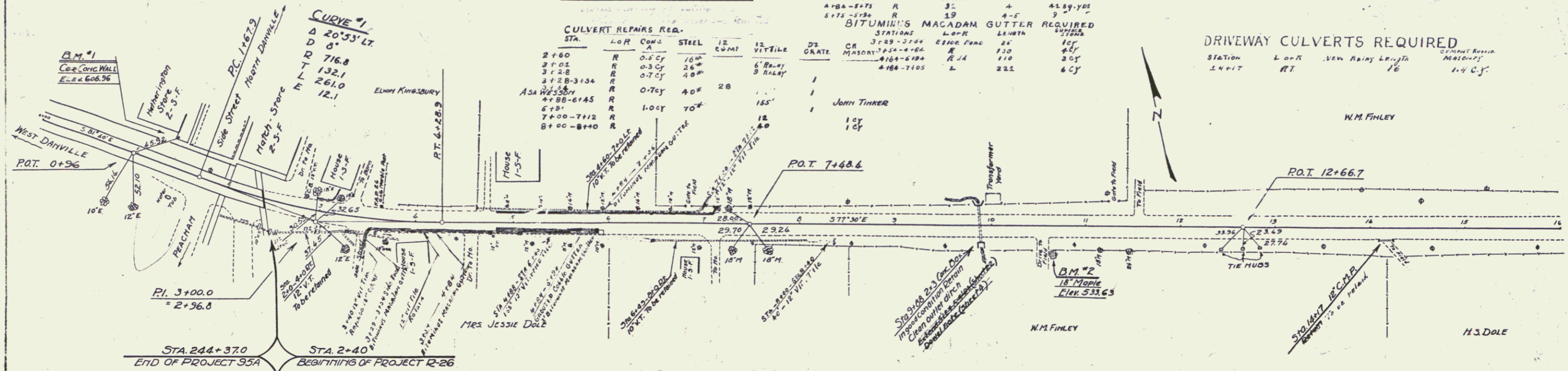
STATIONS	L OR	LENGTH	WIDTH	AREA
3+29-3+44	R	25'	10"	10'
4+88-5+75	R	130'	10"	40'
4+88-7+05	L	221'	10"	6 CY

**DRIVEWAY CULVERTS REQUIRED**

STATION	L OR	VEN	ABIN	LENGTH	DI	CONC
14+17	RT			16'	18"	1-4 CY

**NOTE:** All road and driveway culverts on this project that are to be retained are in good condition, except for repairs called for on the plans.

STATE OF ILLINOIS  
DISTRICT NO. 5  
2-26 1931 4 97



**NOTE:** FINISHED GRADES ARE TO BE CARRIED ALONG THE ENTIRE LENGTH OF PROJECT.

C.E. BURNHAM  
CIVIL ENGINEER

C.E. BURNHAM  
CIVIL ENGINEER

SERIES N<sup>o</sup> 226  
SHEET 4 of 57

**WOOD GUARD RAIL REQUIRED**

CON. STATION	LEFT	RIGHT
31+75	24'	24'

**CABLE GUARD RAIL REQUIRED**

STATIONS	L+R	LENS	CONSTANT	ANY LENGTH
20+11-20+35	LT	24'	20'	44'
20+11-20+35	RT	24'	20'	44'
20+45-20+69	LT	24'	20'	44'
20+45-20+69	RT	24'	20'	44'

**DRIVEWAY PIPE CULVERTS REQUIRED**

STATION	L+R	RELAY
21+35	LT	12'
22+30	RT	16'
26+00	RT	16'

**DRINK CONC PIPE CULVERTS REQUIRED**

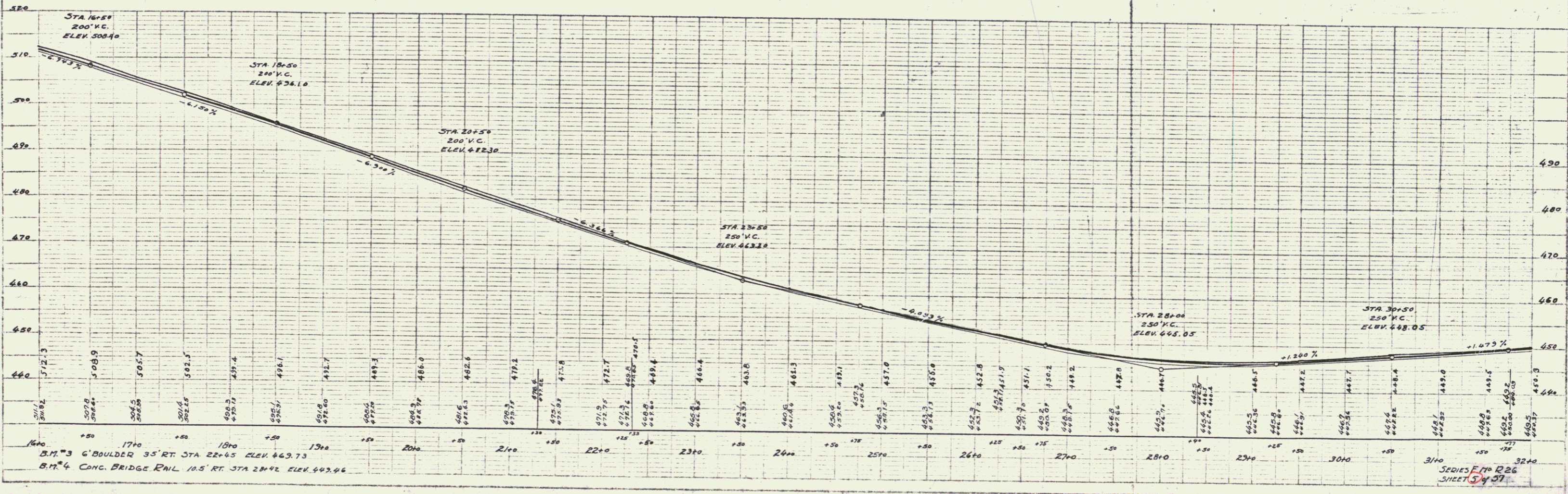
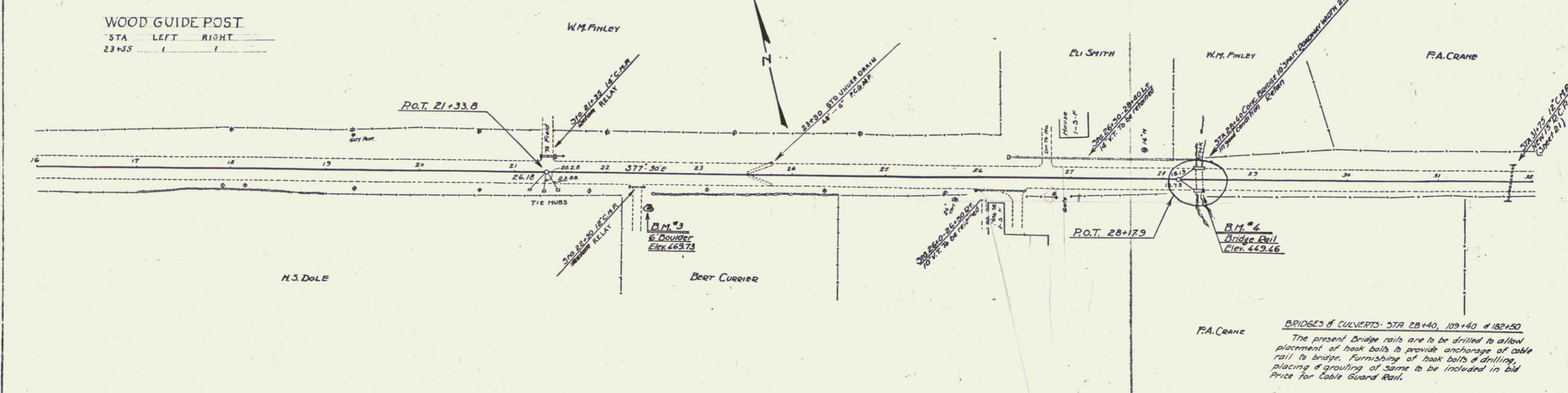
STATION	DIAM	LENGTH	CONC. C.	STEEL
31+75	15"	40'	2.3 CY	33#
			2.5 CY	46#

**STANDARD UNDER DRAIN 6" PCGMP**

STATION	LENGTH
23+50	48'

FED. ROAD DIST. NO. STATE DIST. NO. SHEET NO. TOTAL SHEETS  
 9 VT. R-26 1931 5 57

**WOOD GUIDE POST**  
 STA LEFT RIGHT  
 23+55 1 1



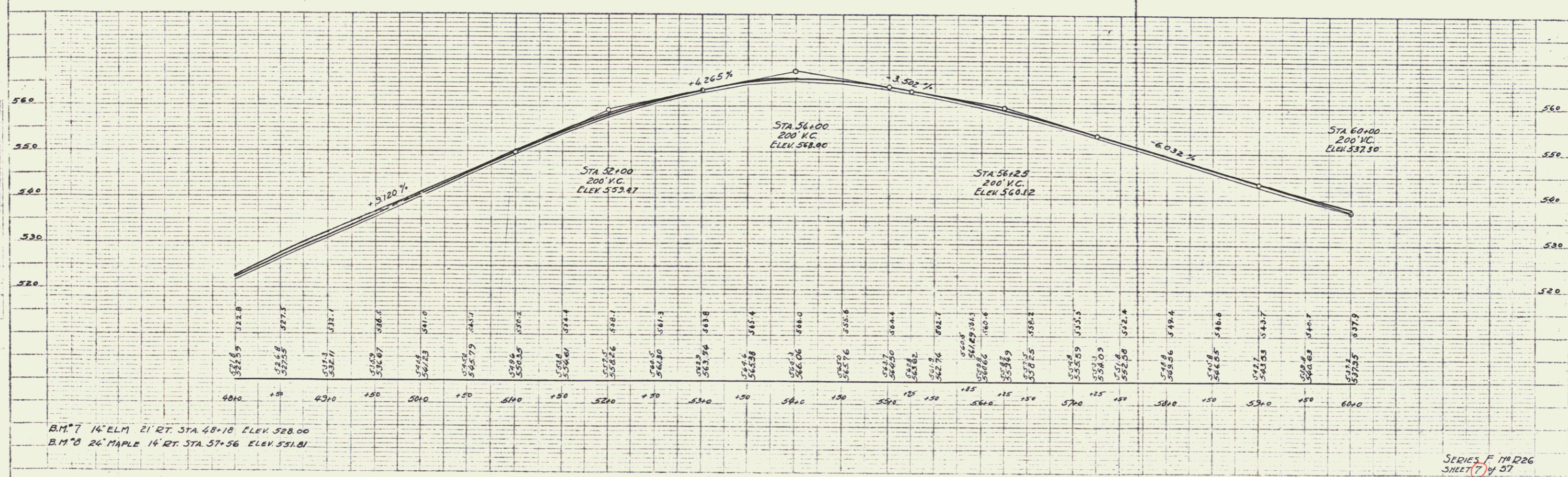
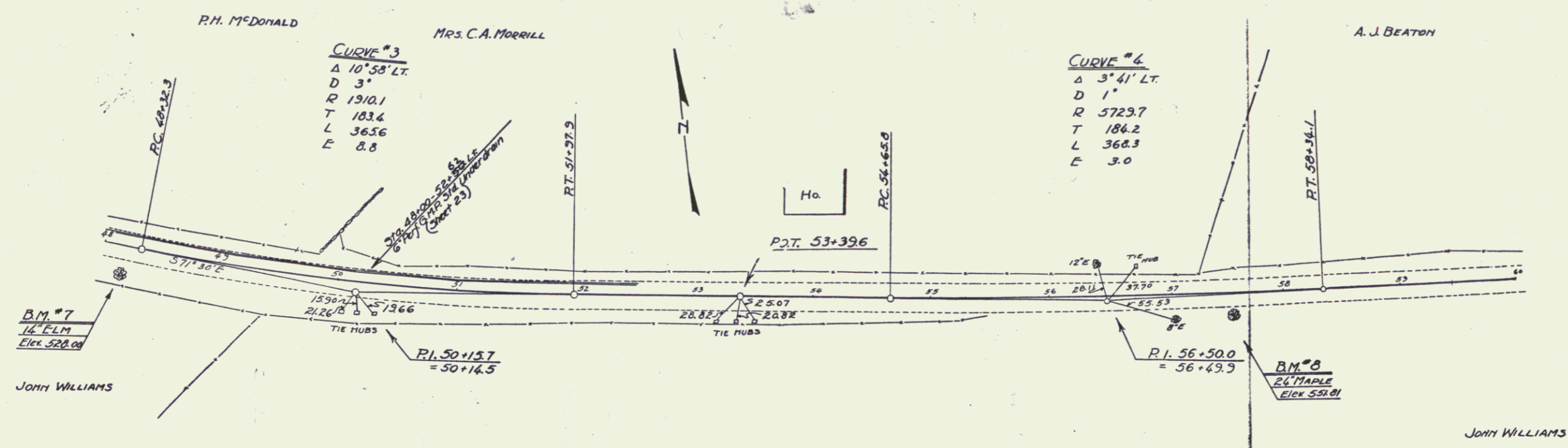
**BRIDGES & CULVERTS: STA 28+40, 109+40 & 182+50**  
 The present bridge rails are to be drilled to allow placement of hook bolts to provide anchorage of cable rail to bridge. Furnishing of hook bolts & drilling, placing & grouting of same to be included in bid price for Cable Guard Rail.

SERIES F 70 R 26  
 SHEET 5 of 57



FED. ROAD DIST. NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
	VT	R-26	1931	7	27

STB UNDERDRAIN WITH 6" PER. G.P.P. PIPE  
 STATIONS 48+00-52+30 LT.  
 LENGTH 430'  
 PERCENT GRADE 0.32%



B.M.#7 14' ELM 21' RT. STA. 48+10 ELEV. 528.00  
 B.M.#8 24' MAPLE 14' RT. STA. 57+56 ELEV. 551.01

SERIES F 171226  
 SHEET 7 of 27

**WOOD GUARD RAIL REQUIRED**

CULVERT STATION	LEFT	RIGHT
62+06	24'	24'
64+32	24'	-

**CABLE GUARD RAIL REQUIRED**

STATIONS	LEFT	LINE	RIGHT	PIV. LENGTH
64+06-65+16	RT.	1522	40'	152'
		46	10	25

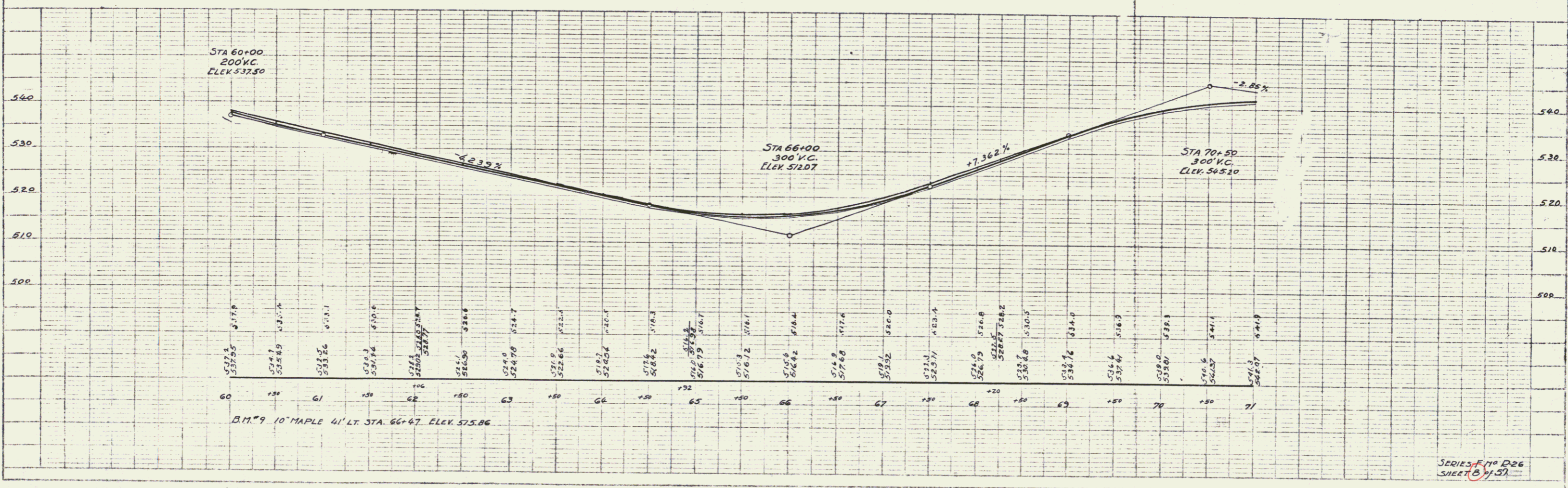
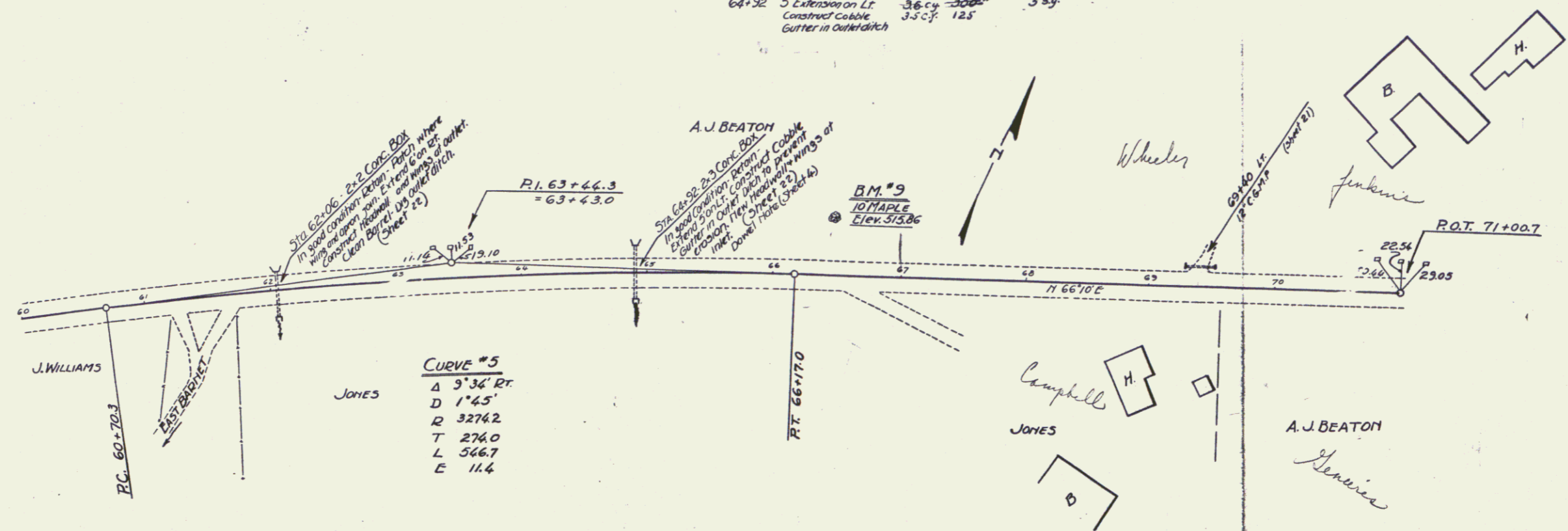
**DRIVEWAY PIPE CULVERTS REQUIRED**

STATION	LINE	DIA. LINE	DEPTH	PILE MASONRY
69+40	LT.	12' 24"	2.3	cy

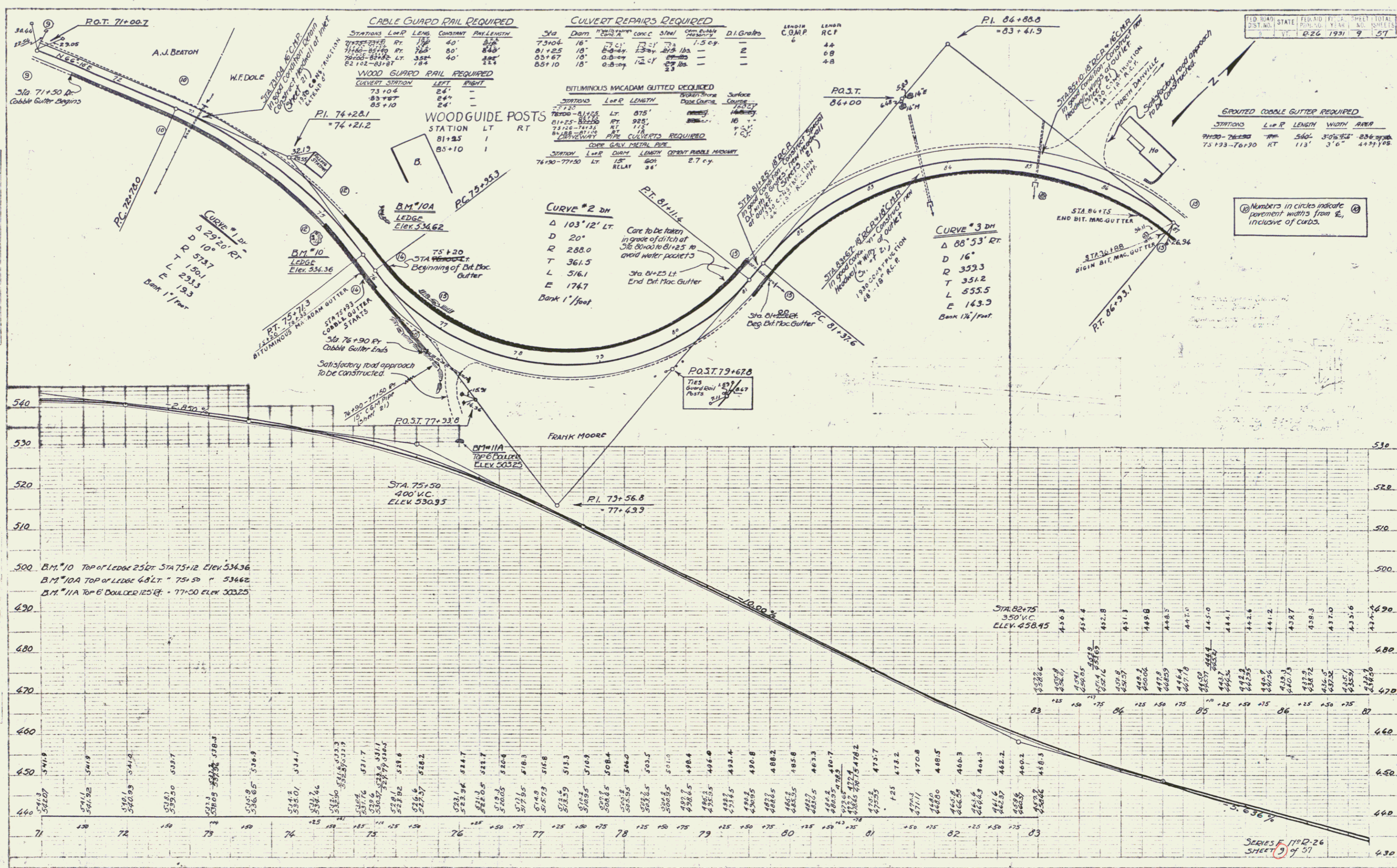
**CULVERT REPAIRS REQUIRED**

STATION	NATURE OF REPAIRS	COX. A.	PILE/STEEL	COBBLE GUTTER
62+06	6' Extension on RT.	2.3	24"	
64+32	5' Extension on LT.	3.6	300"	5.2
	Culvert in Outdritch	3.5	3'	12.5

FILE NO.	STATE	PROJECT	SHEET	TOTAL
B	VT.	12-26	1931	8
			8	37



SERIES F 10 D26  
SHEET B OF 31



**CABLE GUARD RAIL REQUIRED**

STATIONS	LENG.	CONSTANT	PAV. LENGTH
73+04	175	40'	840'
74+25	180	80'	840'
82+10	184	40'	840'

**CULVERT REPAIRS REQUIRED**

STATION	DIAM	LENG	CONC	STEEL	OPEN	GRASS	D.I. GRADES
73+04	16"	175	1.5 cy.	—	—	—	—
81+25	18"	180	—	—	—	—	—
82+10	18"	184	—	—	—	—	—

**WOOD GUARD RAIL REQUIRED**

CULVERT STATION	LEFT	RIGHT
73+04	24'	—
81+25	24'	—
82+10	24'	—

**ENTIRE ROAD GRATED REQUIRED**

STATIONS	LENG	WIDTH	THICKNESS	GRADES
73+04-81+25	875'	20'	1.5"	—
81+25-82+10	85'	20'	1.5"	—
82+10-83+10	90'	20'	1.5"	—

**COOP GALV. METAL PIPE**

STATION	LENG	DIAM	LENG	CONC	STEEL	GRADES
76+30-77+30	100'	18"	100'	2.7 cy.	—	—

**CURVE #2 DATA**

Δ	103°12' LT
D	20'
R	288.0
T	361.5
L	576.1
E	174.7

**CURVE #3 DATA**

Δ	88°53' RT
D	16'
R	353.3
T	351.2
L	555.5
E	143.9

ED. ROAD	STATE	FED. AID	PL. P.	SHEET TOTAL
7	VT	0-26	1931	9

**GRADED COBBLE GUTTER REQUIRED**

STATIONS	LENG	WIDTH	AREA
74+25-76+30	105'	3'0"	894 sq. ft.
75+33-76+30	97'	3'0"	449 sq. ft.

Numbers in circles indicate pavement widths from E, inclusive of curbs.

500 B.M. #10 TOP OF LEDGE 25 FT STA 75+12 ELEV. 534.36  
 B.M. #10A TOP OF LEDGE 4.8 FT " 75+50 " 534.62  
 B.M. #11A TOP OF DOULDER 125 FT " 77+50 ELEV. 503.25

SERIES F 1110-D-26  
 SHEET 9 of 31

**WOOD GUARD RAIL REQUIRED**

CULVERT STATION	LEFT	RIGHT
96+16	24'	24'
96+71	24'	24'

**BITUMINOUS MACADAM GUTTER REQUIRED**

Sta	L or R	Length	Base Course	Surface Course
07+00-88+30	RH	130	0 cy.	4 cy.

**CULVERT REPAIRS REQUIRED**

STATION	NATURE OF REPAIRS	CGMP
96+16	Extension 6 Lts, 4' to 16'	2004 3.0

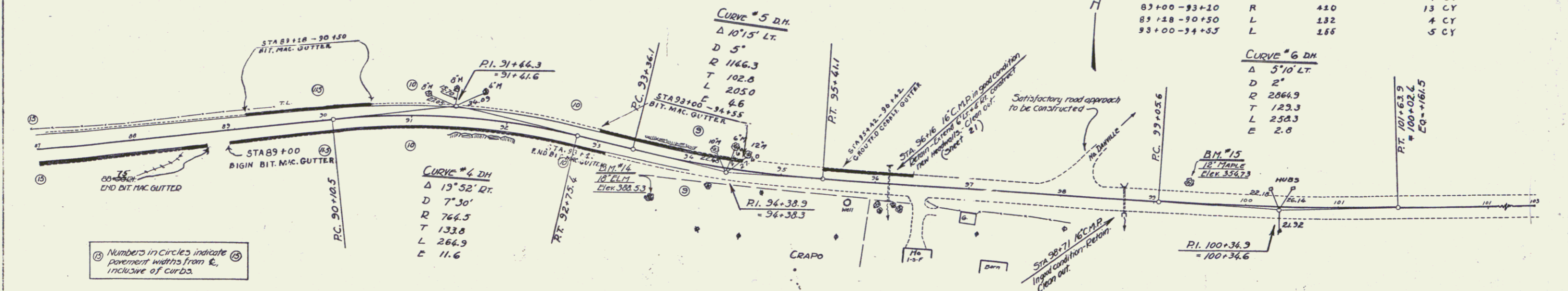
FD	RD	STATE	PROJECT	FEED	SCALE	SHEET	TOTAL
9	10	26	1931	70	37		

**BITUMINOUS MACADAM GUTTER REQUIRED**

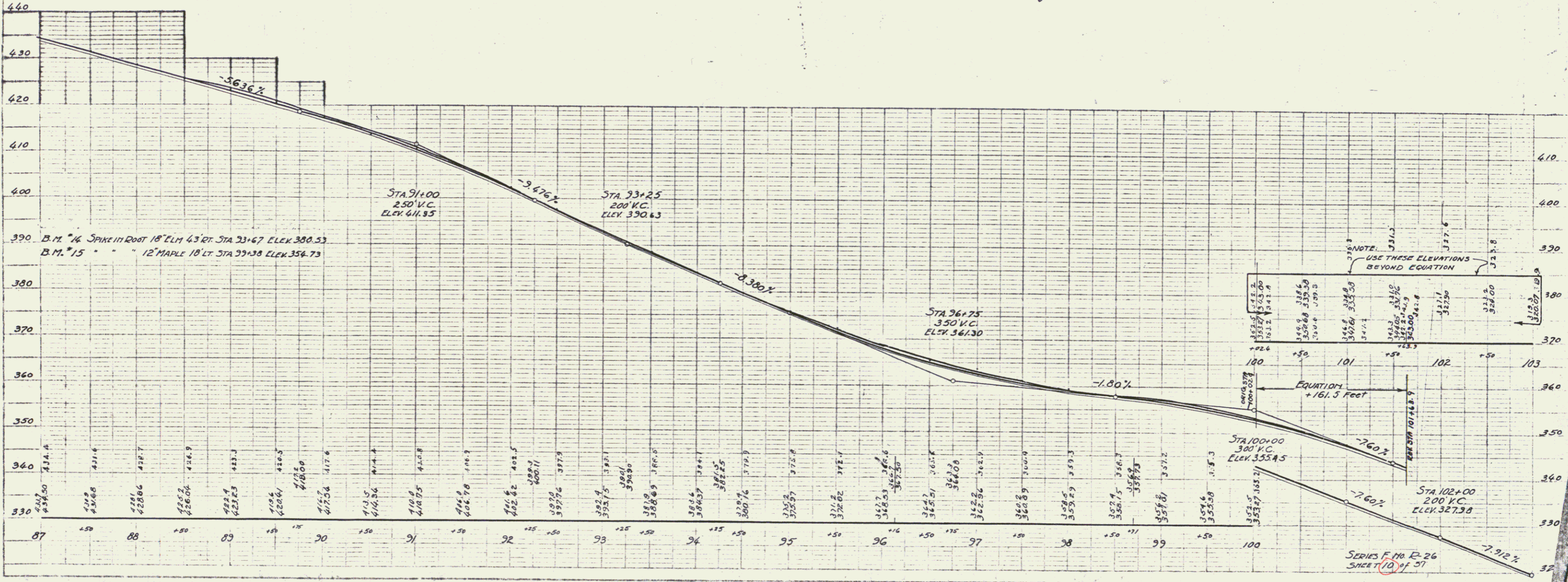
STATIONS	L-R	LENGTH	SURFACE	STONE
87+00-88+75	R	175'		4 CY
83+00-93+10	R	410		13 CY
83+18-90+50	L	132		4 CY
93+00-94+55	L	255		5 CY

**CURVE # 6 DH**

Δ	D	R	T	L	E
5'10" LT.	2"	2864.9	123.3	250.3	2.8



Numbers in Circles indicate pavement widths from R, inclusive of curbs.



SERIES F No. R-26  
SHEET 10 OF 37

WOOD GUARD RAIL REQUIRED

CONVERT STATION	LEFT	RIGHT
105+35	24'	24'
117+37	24'	24'

CABLE GUARD RAIL REQUIRED

STATIONS	L or R	LONG.	CONSTANT	PIV LENGTH
105+36-109+20	LT.	24'	20'	44'
109+20-109+30	RT.	24'	20'	44'
109+30-109+40	LT.	24'	20'	44'
109+40-109+50	RT.	24'	20'	44'
109+50-117+33	RT.	40'	40'	80'
117+33-117+81	RT.	40'	40'	80'
117+81-117+81	LT.	40'	40'	80'

BITUMINOUS MACADAM GUTTER REQUIRED

STATIONS	L or R	LENGTH	SURFACE STORE
117+33-117+81	L	48'	1.5 CX

CONVERT DEPAIRS REQUIRED

STATION	NATURE OF REPAIRS	ESTIMATE
117+37	NEW PROFILES OF EXTERIOR	175.00
105+35	Raise Headwall	175.00

CONC	CONC C
4	0.3

REVISIONS  
DATE  
BY  
P. 26 1931

