

SHEET NO. 1 TITLE PAGE

- " " 2 TYPICAL CROSS-SECTION OF IMPROVEMENT (ONE COURSE CEMENT
" " 3 DETAILS OF CONSTRUCTION CONCRETE PAVEMENT)
" " 4-22 PLAN AND PROFILE - STA 13+00 - STA 274+00
" " 23 STANDARD STRUCTURE SHEET - S-20 PIPE CURVETS
" " 24 " " S-21 BOX
" " 25 " " S-22 GUARD RAIL, ETC.
" " 26 " " CULVERT SHEET - S.C.1 - 5 FT SPAN AND OVER
" " 27 " " BRIDGE SHEET - S.B.2 A
" " 28 " " S.B.2
" " 29 BRIDGE SHEET - S.A.166 & B3
" " 30 " " STA 269+75
" " 31-66 GROSS SECTIONS
" " 66-A " " OF RIVER RELOCATION - STA 233+50 LI
" " 66-B INTEGRAL CURB AND CONSTRUCTION DETAILS

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

STATE FEDERAL AID PROJECT

CITY OF MONTPELIER-TOWN OF BERLIN

MONTPELIER-NORTHFIELD ROAD

BEGINNING AT A POINT 1300 FEET WEST OF THE 'MAIN ST.
BRIDGE IN MONTPELIER WESTERLY 4.858 MILES

LENGTH OF PROJECT 25650.9 FEET 4.858 MILES

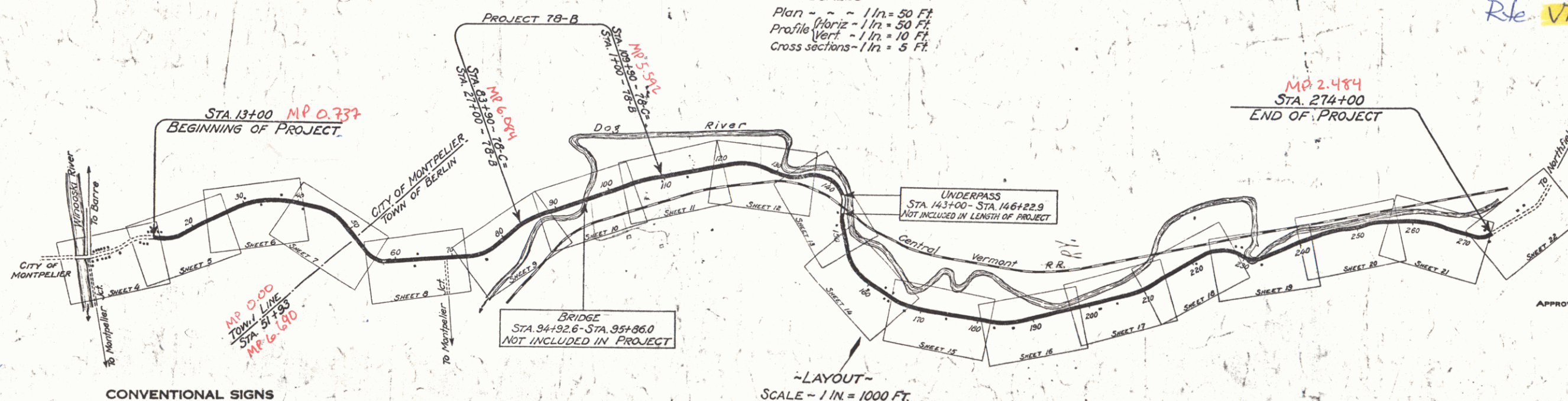
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
9	VT.	78-C	1930	1	66



SCALE - 1 IN = 4 M.

~SCALES~

Plan ~ ~ ~ 1 in. = 50 Ft.
 Profile { Horiz ~ 1 in. = 50 Ft.
 Vert. ~ 1 in. = 10 Ft.
 Cross sections ~ 1 in. = 5 Ft.



MP 2.484
STA. 274+00
END OF PROJECT

Rte VT 12

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 _____

GROUND ELEVATION.....	DATUM	LINE
GRADE ELEVATION.....	DATUM	LINE

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.

~LAYOUT~
SCALE ~ 1 IN. = 1000 FT.

This project to be constructed in accordance
with Standard Road and Bridge Specifications
for 1939.

These plans are subject to such revisions as may be required by the Commissioner of Highways.

APPROVED: March 24, 1930

W. E. Laing
COMMISSIONER OF HIGHWAYS

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

RECOMMENDED

DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL

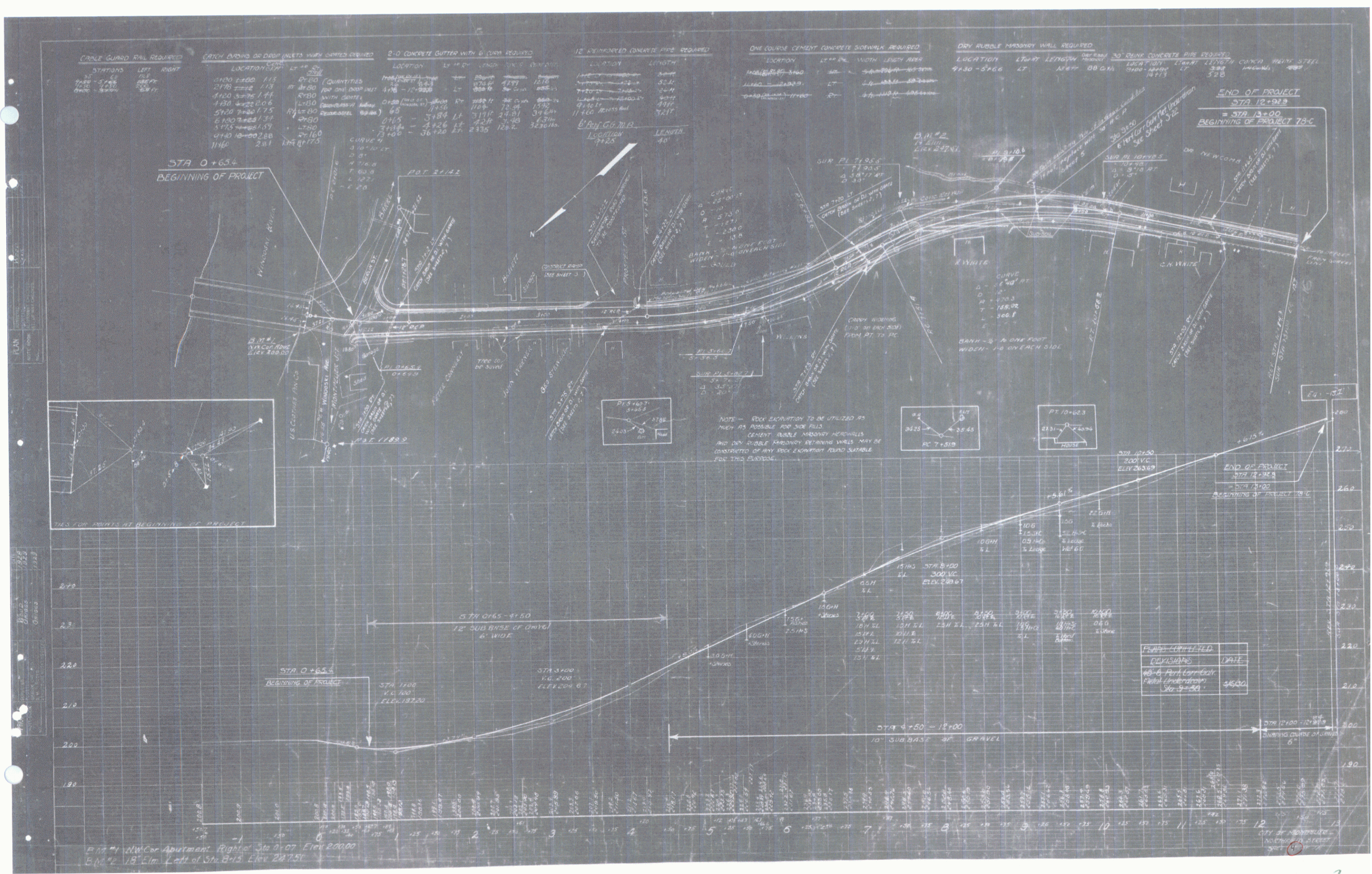
CHIEF ENGINEER

APPROVE

DIRECTOR - BUREAU OF PUBLIC ROADS

PLANS COMPLETED MAR. 24, 1930

30 SERIES F. NO. 78-C FILED
SHEET 1 OF 66



GUIDE POSTS OF WOOD REQUIRED		
CULVERT STATION	LEFT	RIGHT
20+25	-	1
22+40	-	1

WOOD GUARD RAIL REQUIRED		
CULVERT STATION	LEFT	RIGHT
14+13	-	24'

CABLE GUARD RAIL REQUIRED		
STATIONS	LEFT	RIGHT
17+18 - 18+38	-	120'

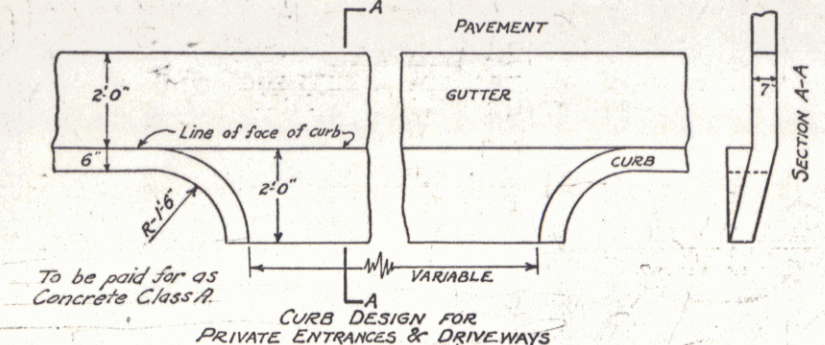
NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED						
STA.	DIAM.	LENG.	CONC. A.	CONC. C.	REIN. STEEL	D.I. GATED
14+13	30"	43'	3.2 cu yds.	-	125 lbs.	-
17+30	18"	32'	1.4 cu yds.	0.9 cu yds.	116 lbs.	1
20+25	12"	40'	2.8 cu yds.	-	198 lbs.	2
22+70	15"	32'	3.3 cu yds.	-	174 lbs.	1

CONCRETE CURB AND GUTTER REQUIRED			
STATIONS	LENG.	WIDTH	CURB NET
13+00 - 24+00	L	2.0'	5' 70 cu yds.

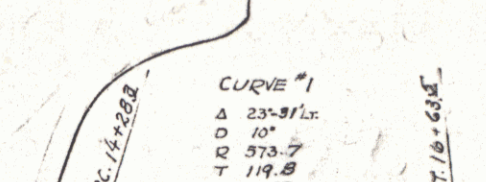
CATCH BASINS REQUIRED		
STATION	TYPE	
14+00	LEFT BACK	

DRIVEWAY CULVERT REPAIRS REQUIRED			
STATION	R.O.L.	CEMENT RUBLE MOORRY	
19+70	Rt.	2.0 cu yds.	
21+60	Rt.	2.0 cu yds.	

DRIVEWAY PIPE CULVERTS REQUIRED			
STATION	LENG.	DIAM.	LENG.
22+50	Rt.	24"	30'



Catch Basin left of Sta. 14+00 to outlet into existing stone box if in good condition. If the stone box is in poor condition a 30" R.C.P. is to be constructed between Sta. 13+00 and Sta. 14+00 on left.



Do not widen
14+00 left
Rt. Curb Design (see sheet 5)

For details of design of drop inlet & manhole see sheet 5.

From Sta. 13+00 To Line 51+93 = 3693'

NOTE - DRIVEWAYS TO BE CONSTRUCTED TO PROVIDE SATISFACTORY APPROACHES TO PAVEMENT AT LOCATIONS SHOWN ON THE CROSS-SECTIONS, OR DIRECTED BY THE ENGINEER.

14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

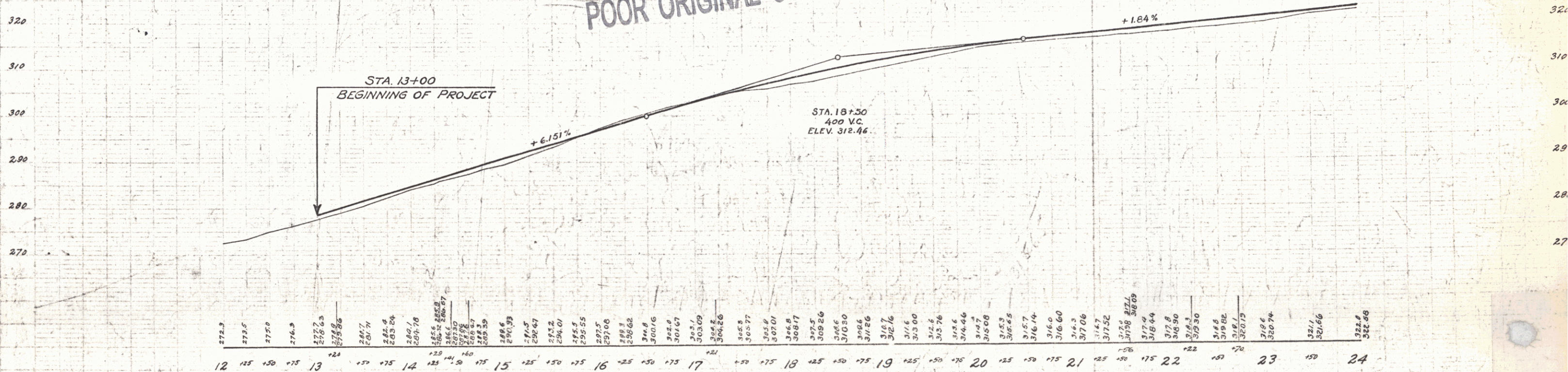
14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

14+13 30" tile
New 50' R.C.P. (Class A)

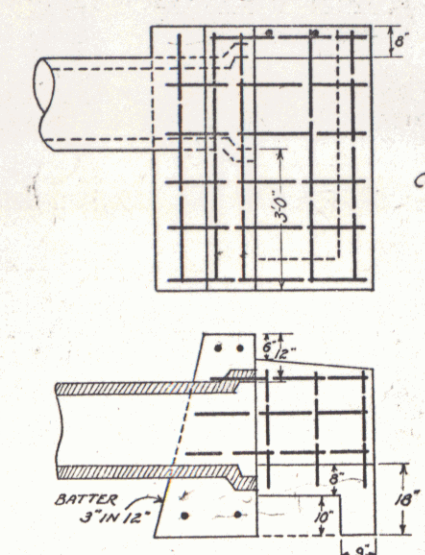
POOR ORIGINAL COPY



B.M. #3 14" Elm 17' Right of Sta. 16+85 Elev. 303.18

CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
26+42-31+38	-	496
39+50-40+00	50	50



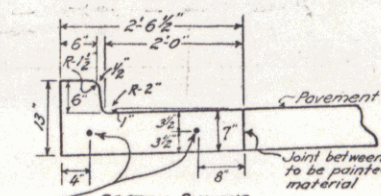
DETAIL OF CULVERT HEADWALL
L TYPE
CONC CLASS A

ALL STEEL TO BE
3/4" DEFORMED
SPACED 12" 9"

QUANTITIES FOR 18" PIPE
CONC CLASS A 19 cu yds.
Rein Steel 75 lbs.

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

STA.	DIAM.	LENG.	CONC. A	CONC. C	REIN. STEEL	DI.	GUTTER	PROPORTION
26+70	18"	44'	29 cu y	-	268 lbs.	2	1	1



SECTION SHOWING
CONCRETE CURB & GUTTER
CONC CLASS A
- ON LEFT -
STA. 13+00 - STA. 29+50

CULVERT HEAD WALLS TO BE CONSTRUCTED

STATION	TYPE	CONC. A	REIN. STEEL
31+35	24" DIA	26 cu y	54 lbs.
40+00	12" DIA	18	54

Note: Joints in Curb & Gutter not to exceed 8'-0" apart. Premoulded bituminous expansion joint filler 1/2" thick, to be placed between every 8th section (every 40'). Remaining joints to be either butt joints painted with bituminous material or cut plate joints.

Joint between pavement & gutter to be painted with bituminous material.

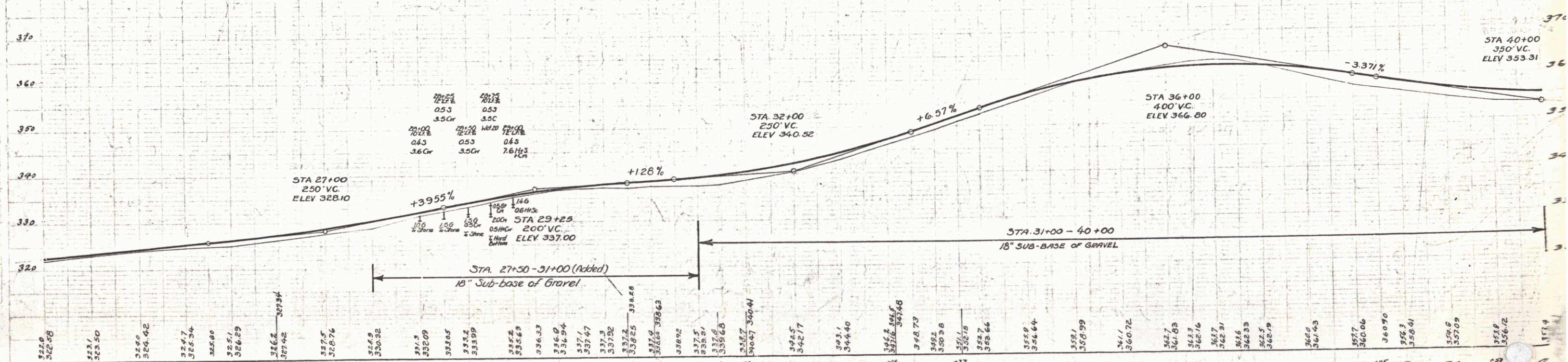
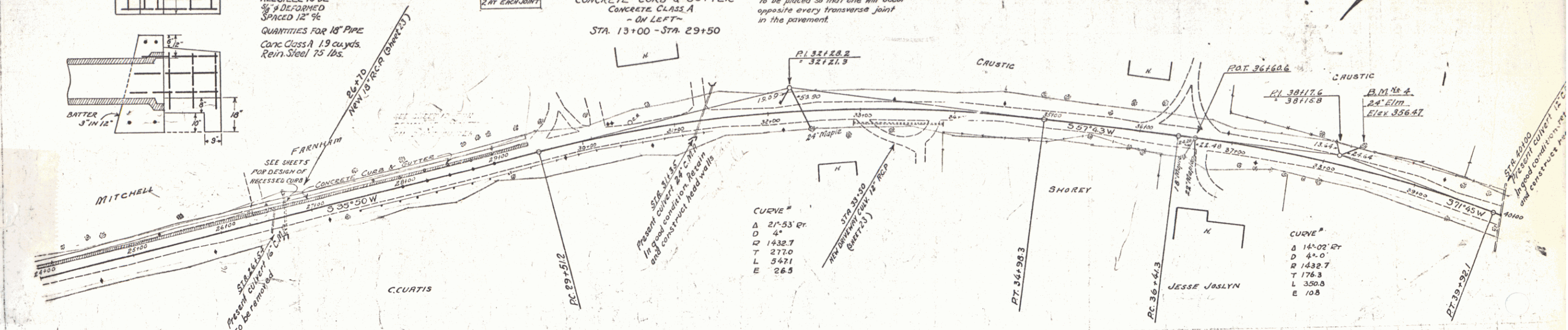
Joints in Curb & Gutter section to be placed so that one will occur opposite every transverse joint in the pavement.

CONCRETE CURB AND GUTTER REQUIRED

STATIONS	LENG.	WIDTH	CURB	GUTTER	CONC. REIN.
24+00-29+50	L 20'	6"	36 cu y	409 lbs.	

DRIVEWAY PIPE CULVERTS REQUIRED

STATION	LENG.	DIAM.	LENGTH	CEMENT PORTLAND MASONRY
33+50	12'	36"	23 cu y	



B.M. #4 24' Elm Left of Sta 38+38 Elev 356.47

STATION	ELEVATION
24	322.58
25	323.50
26	324.42
27	325.34
28	326.26
29	327.18
30	328.10
31	329.02
32	330.00
33	331.00
34	332.00
35	333.00
36	334.00
37	335.00
38	336.00
39	337.00
40	338.00

PLANS COMPLETED

REVISIONS	DATE
Sta 27+30-31+00 (Added)	3/6/30
18" Sub-base of Gravel	

SERIES F 10-70C
SHEET 6 OF 66

CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
40+00 - 40+46	46'	46'
51+43 - 52+01	64'	64'
52+43 - 53+01	64'	64'

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STA.	DIAM.	LENS	CONC. CONC.	REIN. STEEL
52+34	24"	112'	3.6 cu yd.	127 lbs.

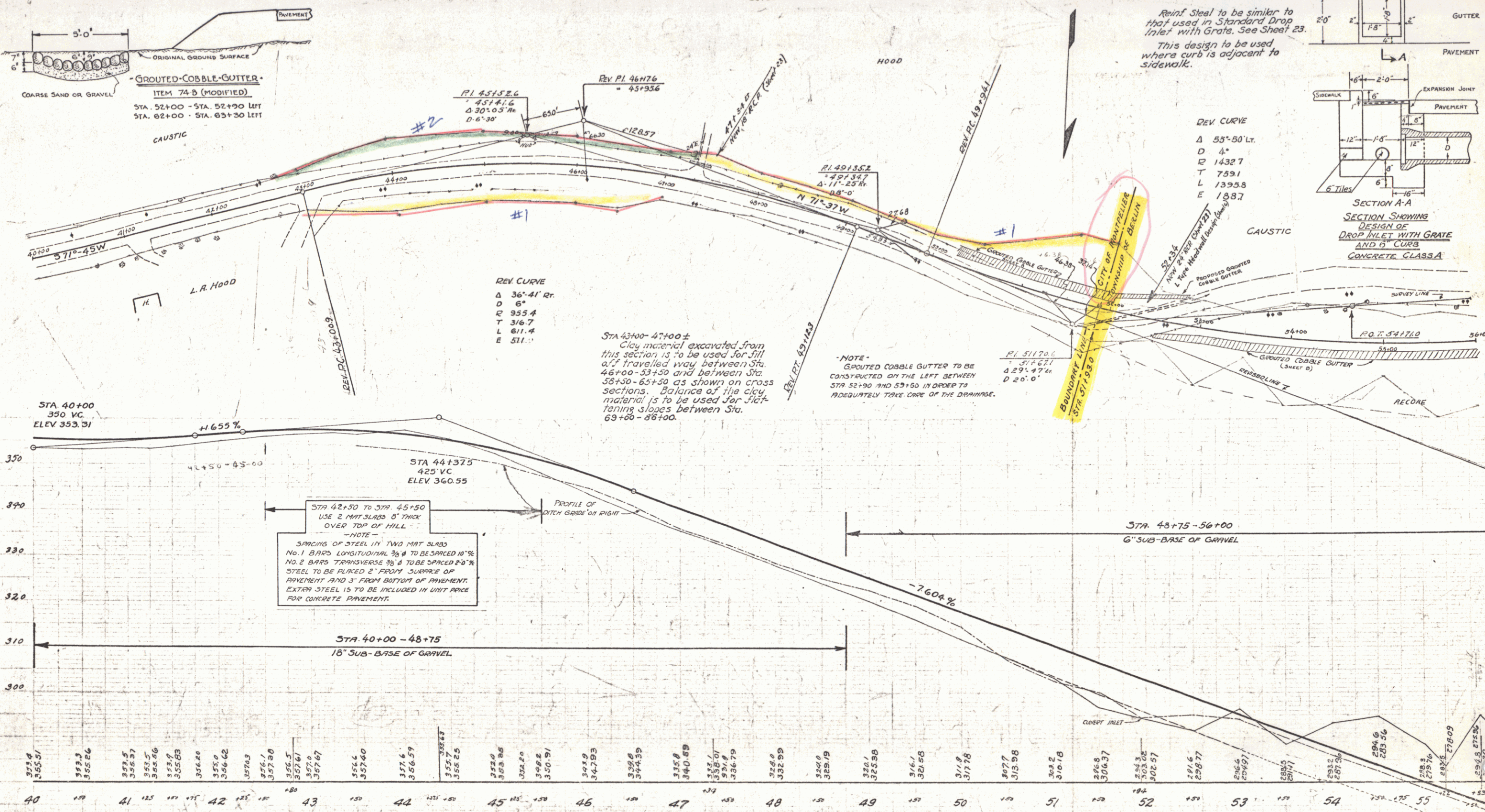
GROUTED COBBLE GUTTER REQUIRED

STATIONS	L+R	WIDTH	LENS	AREA
50+28 - 52+00	LT	VARIABLE	178'	194 sq yds
52+00 - 56+00	RT	"	353'	389 sq yds
52+00 - 52+30	LT	5'-0"	90'	50 sq yds
52+30 - 56+00	LT	"	310'	178 sq yds

DRIVEWAY PIPE CULVERT REQUIRED

STATION	L+R	DIAM.	LENS	CEMENT RUBBER PAVING
47+34	LT	18"	24'	33 cu yds

ROAD STATE PROJECT YEAR
VT 78-C 1950 7 65



WOOD GUARD RAIL REQUIRED

CULVERT STATION	LEFT	RIGHT
68+35	24'	24'
57+00	24'	24'

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

STATION	DIAM	LENG	COY	CONC	REIN STEEL
68+35	18"	36'	27 cy.	—	102 lbs.
57+00	15"	36'	1.8 cy.	—	54 lbs.

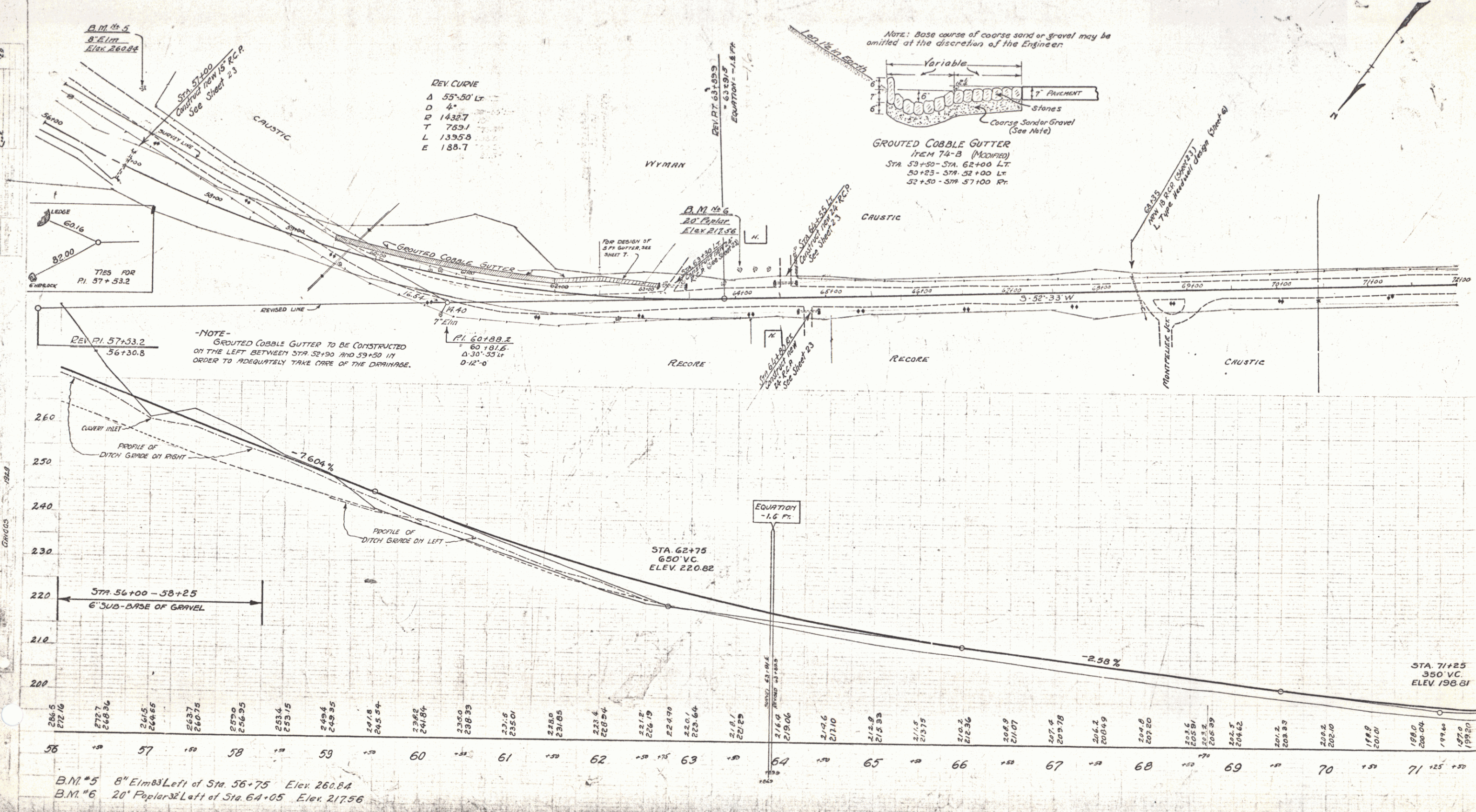
DOVEWAY PIPE CULVERTS REQUIRED

STATION	L+R	DIAM	LENG	CEMENT	PUBLIC	MANHOLE
63+30	LT	24"	30'	4.0 cu yds.		
64+35	LT	24"	24'	4.0 cu yds.		
64+60	RT	24"	24'	4.0 cu yds.		

GRADED COBBLE GUTTER REQUIRED

STATIONS	L+R	WIDTH	LENGTH	AREA
59+50-62+00	LT	VARIABLE	250'	2785 sq yds
56+00-57+00	RT	"	100'	111 sq yds
56+00-59+50	LT	5'-0"	130'	72 sq yds
62+00-63+30	LT	"	130'	134 sq yds

STATE OF ILLINOIS
DIST. NO. 1
YEAR 1930
SHEET NO. 66



B.M. #5 8" Elm 83' Left of Sta. 56+75 Elev. 260.84
B.M. #6 20" Poplar 32' Left of Sta. 64+05 Elev. 217.56

SERIES F
SHEET 6

72-88

FILE NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VI.	78-C	1950	9	66

WOOD GUARD RAIL REQUIRED

CULVERT STATION	LEFT	RIGHT
74+36	24'	24'
75+25	24'	24'
86+47	24'	-

CABLE GUARD RAIL REQUIRED

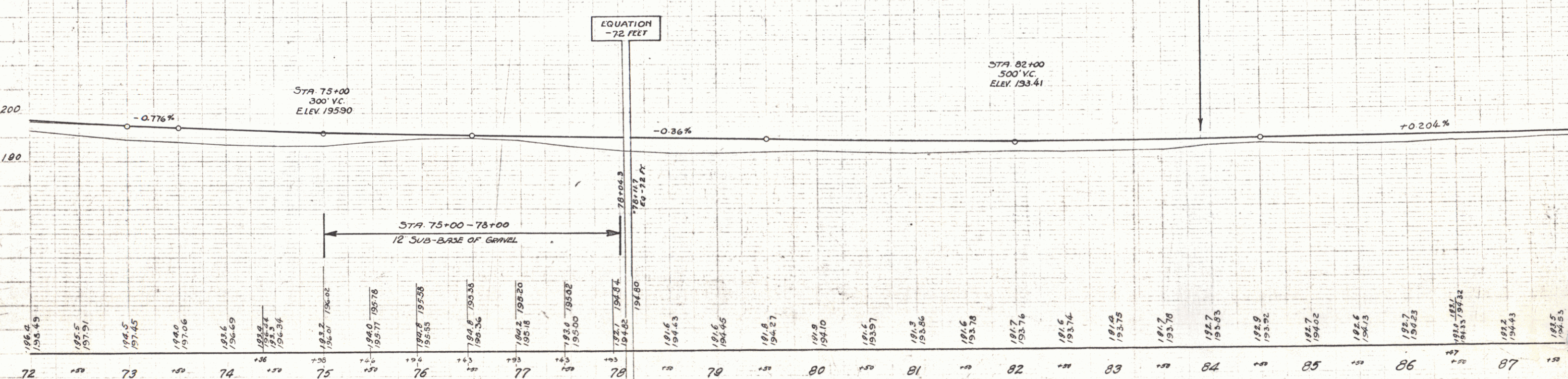
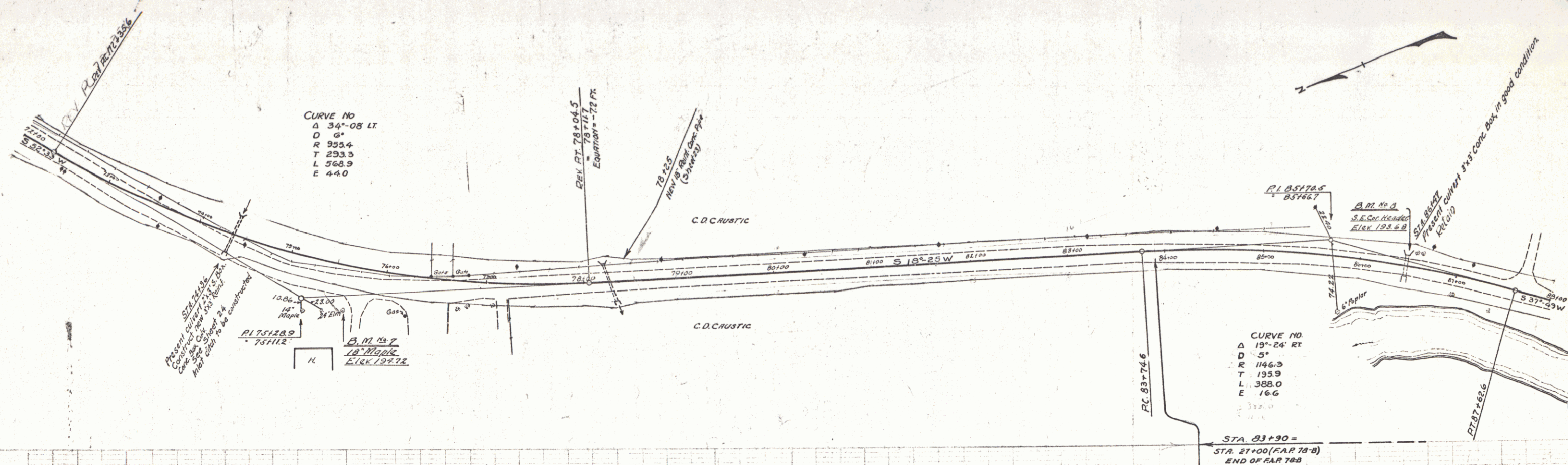
STATIONS	LEFT	RIGHT
86+04-87+00	-	96'

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STATION	DIAM.	LENG.	CONC. A	CONC. C	REIN. STEEL
78+25	18"	40'	1.8 cy.	-	54 lbs.

NEW REIN. CONCRETE BOX CULVERTS REQUIRED

STATION	SIZE	CONC. A	REIN. STEEL
74+36	3'x3'	18.2 cu yds.	1216 lbs.



B.M. #7 18" Maple Right of Sta. 75+65 Elev. 194.72
 B.M. #8 S.E. Cor. Conc. Header Left of Sta. 86+47 Elev. 193.68

SERIES F
 SHEET 9

88-104

FED. ROAD STATE DIST. NO. 78-4 1930 10 66

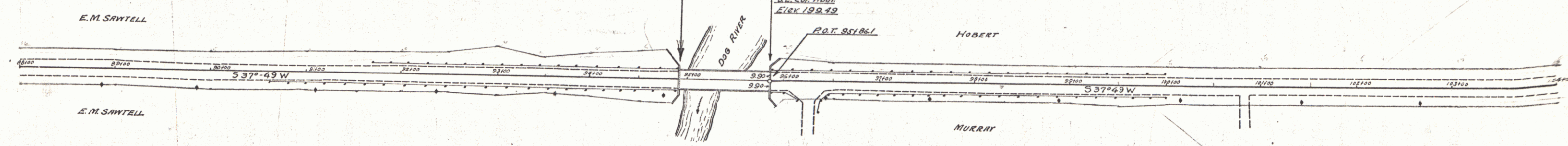
PLAN
NOTE FROM
SHEET 87

11/23
G.P. 1063
G.P. 1068
1928

-NOTE-
Present Guard Rail between
Stations 50+50 and 100+00 ±
to be retained and repaired
as necessary.

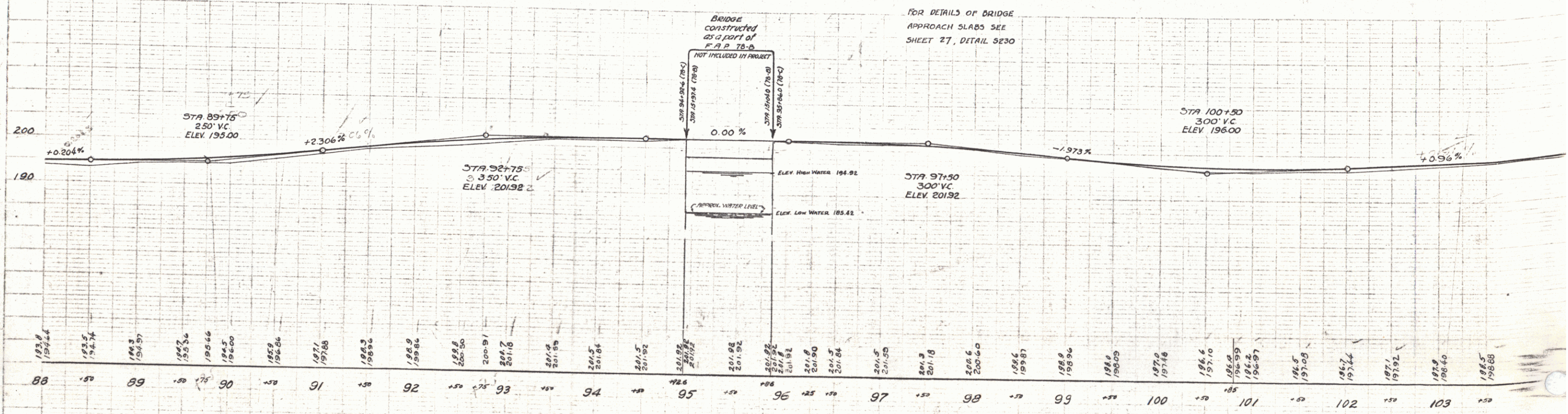
BRIDGE
constructed
as a part of
F.A.P. 78-6
NOT INCLUDED IN PROJECT

B.M. #9
S.E. Cor. Abut.
Elev. 199.49



BRIDGE
constructed
as a part of
F.A.P. 78-6
NOT INCLUDED IN PROJECT

FOR DETAILS OF BRIDGE
APPROACH SLABS SEE
SHEET 27, DETAIL 5230



B.M. #9 S.E. Cor. Abutment Left of Sta. 95+86 Elev. 199.49

SERIES
SHEET 10

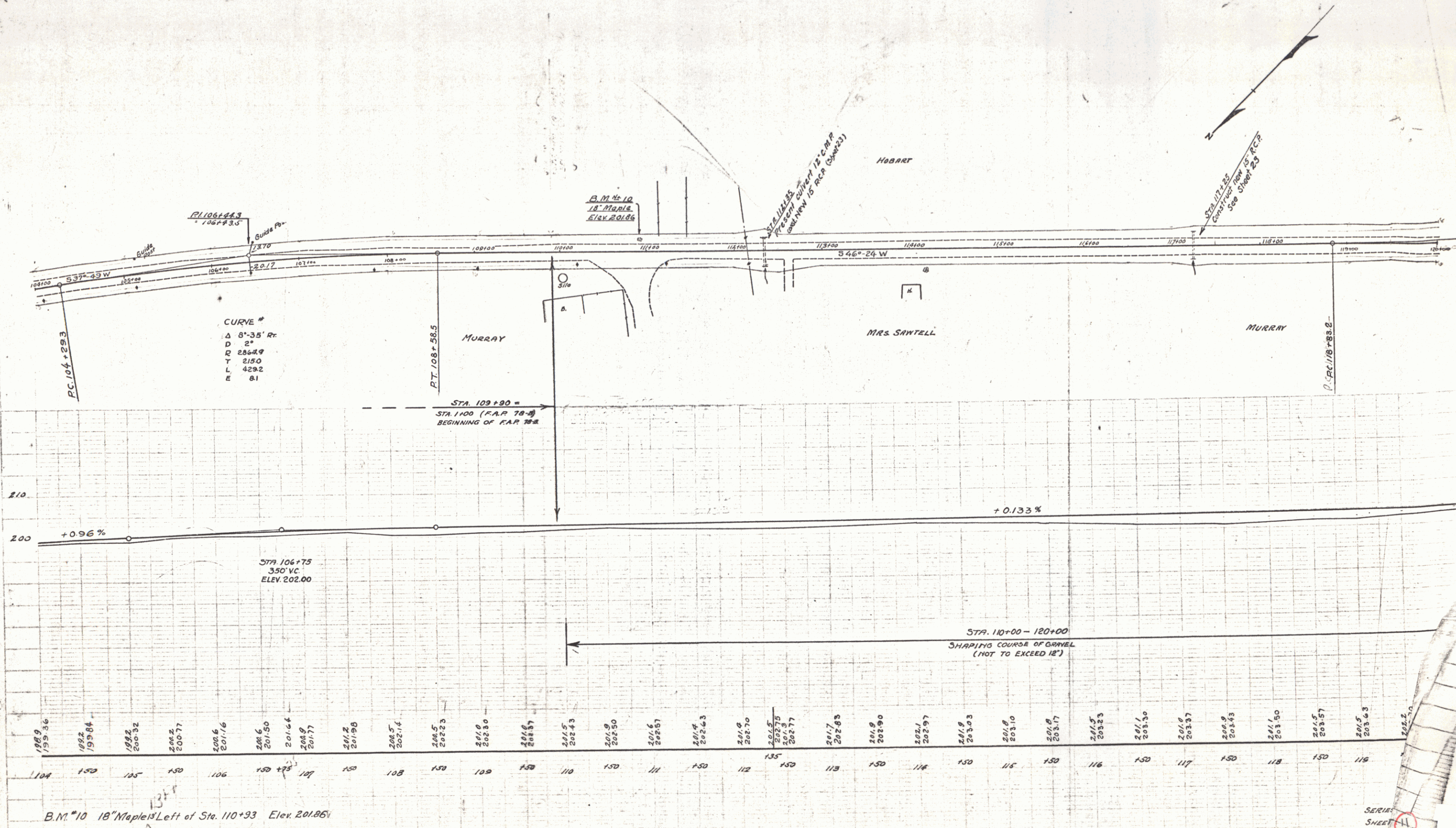
8

WOOD GUARD RAIL REQUIRED

CULVERT STATION	LEFT	RIGHT
112+35	24'	24'
117+25	24'	24'

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STATION	DIAM.	LENG.	CONCR.	CONC. C.	REIN. SOIL
112+35	15"	36'	—	2.3 to 4.0	33.46
117+25	15"	32'	—	2.3	33



Profile view showing elevations for stations 104 to 119.

Station	Elevation
104	198.9
105	199.36
106	199.84
107	200.32
108	200.77
109	201.16
110	201.50
111	201.64
112	201.68
113	201.7
114	201.7
115	201.7
116	201.7
117	201.7
118	201.7
119	201.7

B.M. #10 18" Maple Left of Sta. 110+93 Elev. 201.86

SERIES SHEET 11

NEW REINF. CONCRETE PIPE CULVERTS REQUIRED

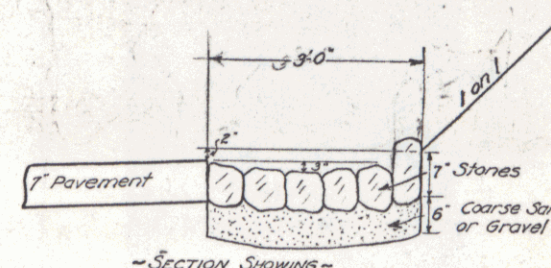
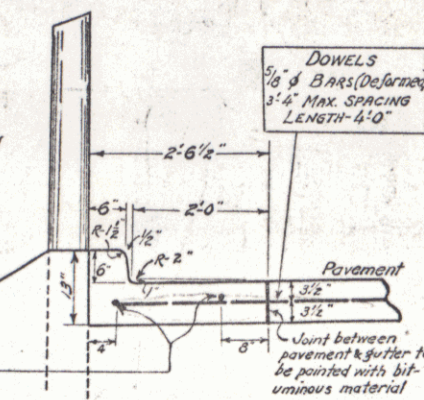
STA.	DIAM.	LENG.	CONC. A.	CONC. C.	REINF. STEEL	D.I.	APPROX. TOP
130+50	18"	4.0'	1.5 cu yds.	1.5 cu yds.	174 lbs.	1	1

<u>CONCRETE CURB & GUTTER REQUIRED</u>					
<u>STATIONS</u>	<u>L. OR P.</u>	<u>WIDTH</u>	<u>CURB HGT.</u>	<u>CONC. A</u>	<u>REINF. STEEL</u>
130+80-134+50	L	2'0"	6"	24 c.y.	739 lbs.

<u>GROUTED COBBLE GUTTER REQUIRED</u>				
<u>STATIONS</u>	<u>L. OR R.</u>	<u>WIDTH</u>	<u>LENGTH</u>	<u>AREA</u>
131+50-136+00	R.	3.0'	450'	150 Sq. Yds.

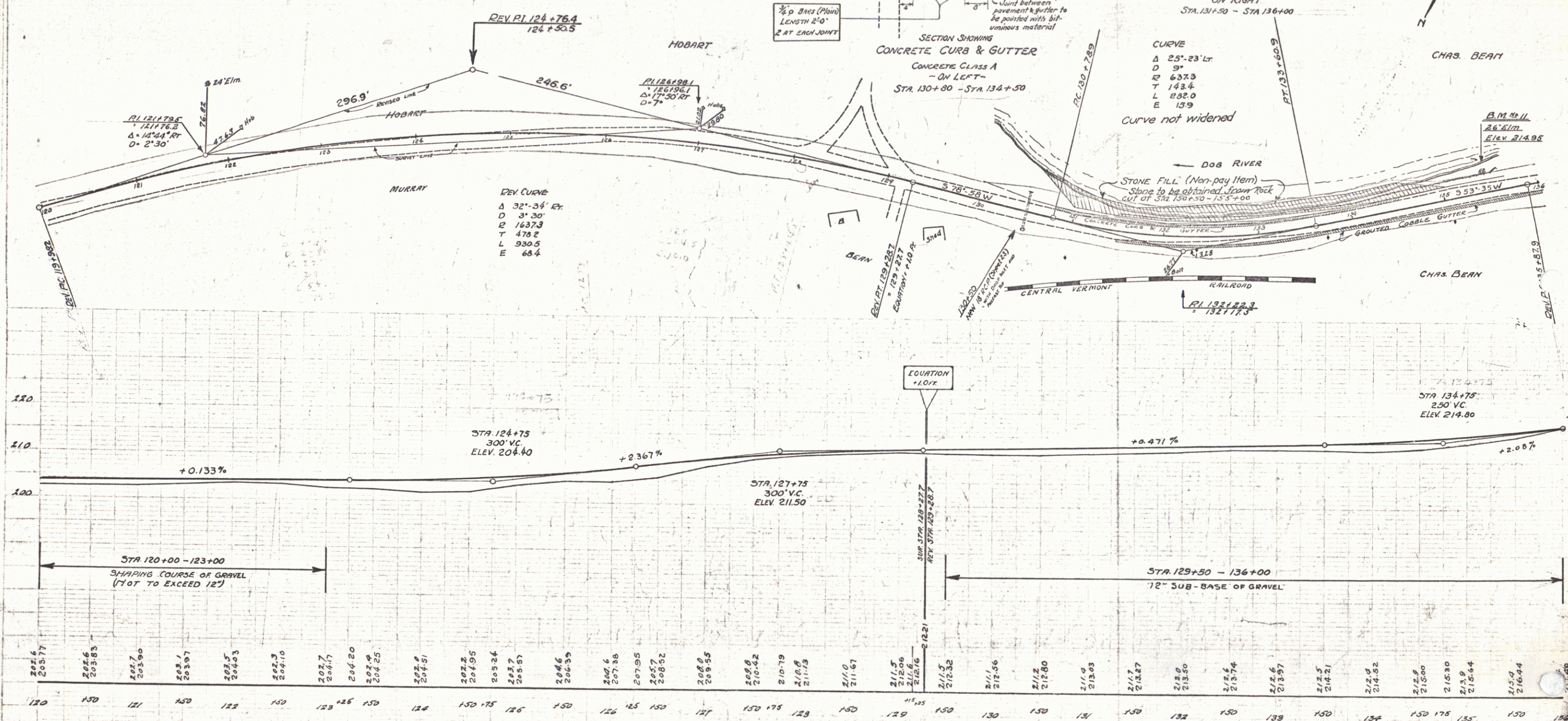
Joints in Curb & Gutter section to be placed so that one will occur opposite every transverse joint in the pavement.

Note: Joints in Curb and Gutter not to exceed 8'0" apart. Premolded bituminous expansion joint filler, 1/2" thick, to be placed between every 5th section (every 40'). Remaining joints to be either butt joints pointed with bituminous material or cut plate joints.



~ SECTION SHOWING ~
3'-0" GROUTED COBBLE GUTTER
ITEM 74-B (Modified)
ON RIGHT
STA. 131+50 - STA 136+00

CURVE
 Δ 25°-23' Lt.
D 9°
R 637.3
T 143.4
L 282.0
E 15.9
Curve not widened



B.M. #11 Spike in root of 26" Elm 18' Left of Sta. 135+45 Elev. 214.95

SERIES F No 78C
SHEET 12 OF 66

WOOD GUARD RAIL REQUIRED

STATION	LEFT	RIGHT
142+79	-	24'
143+62	-	24'
149+10	-	24'
150+84	24'	24'

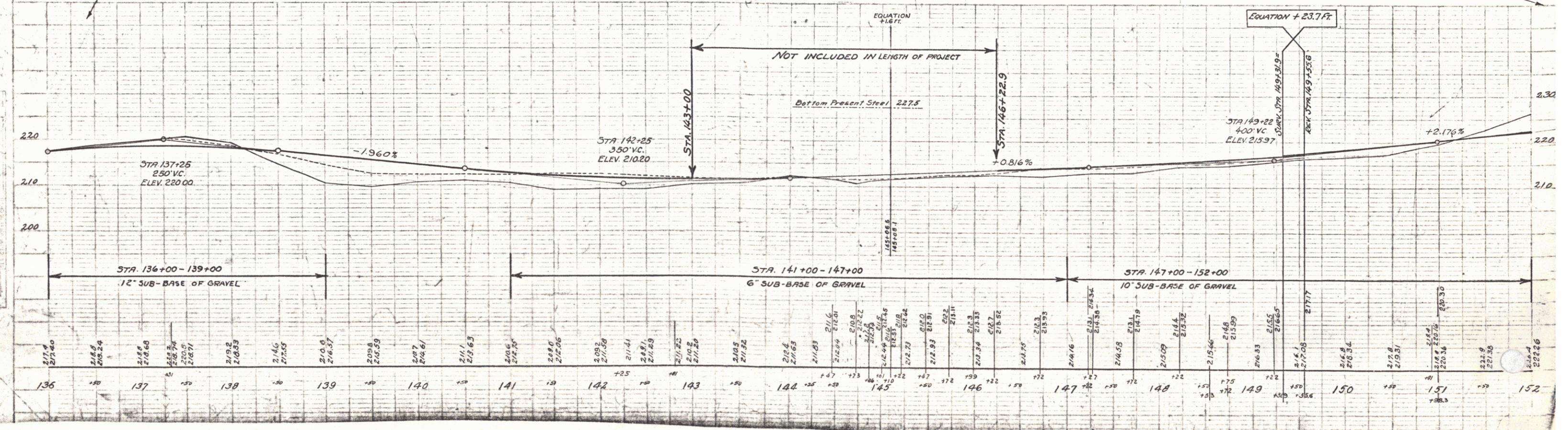
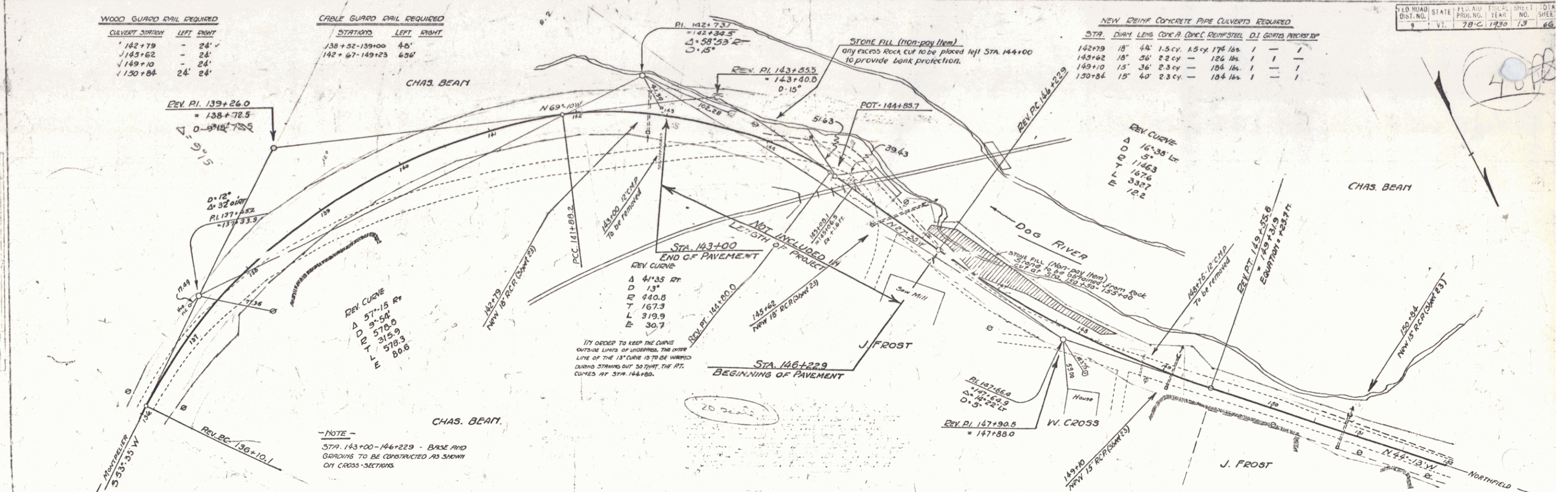
CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
138+52-139+00	40'	
142+67-149+23	656'	

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

STA.	DIAM.	LEN.	CONC.	REINFORC.	D.I.	GRATES	PROTECT.
142+79	18"	44'	1.5 cy	176 lbs	1	-	-
143+62	18"	36'	2.3 cy	126 lbs	1	1	1
149+10	15"	36'	2.3 cy	134 lbs	1	-	-
150+84	15"	40'	2.3 cy	134 lbs	1	-	-

STATE OF OHIO
DIVISION OF HIGHWAYS
PROJECT NO. 70-C-1930
SHEET 13 OF 66



PLAN
1/2" = 100'
1/2" = 100'

PROFILE
1/2" = 10'
1/2" = 10'

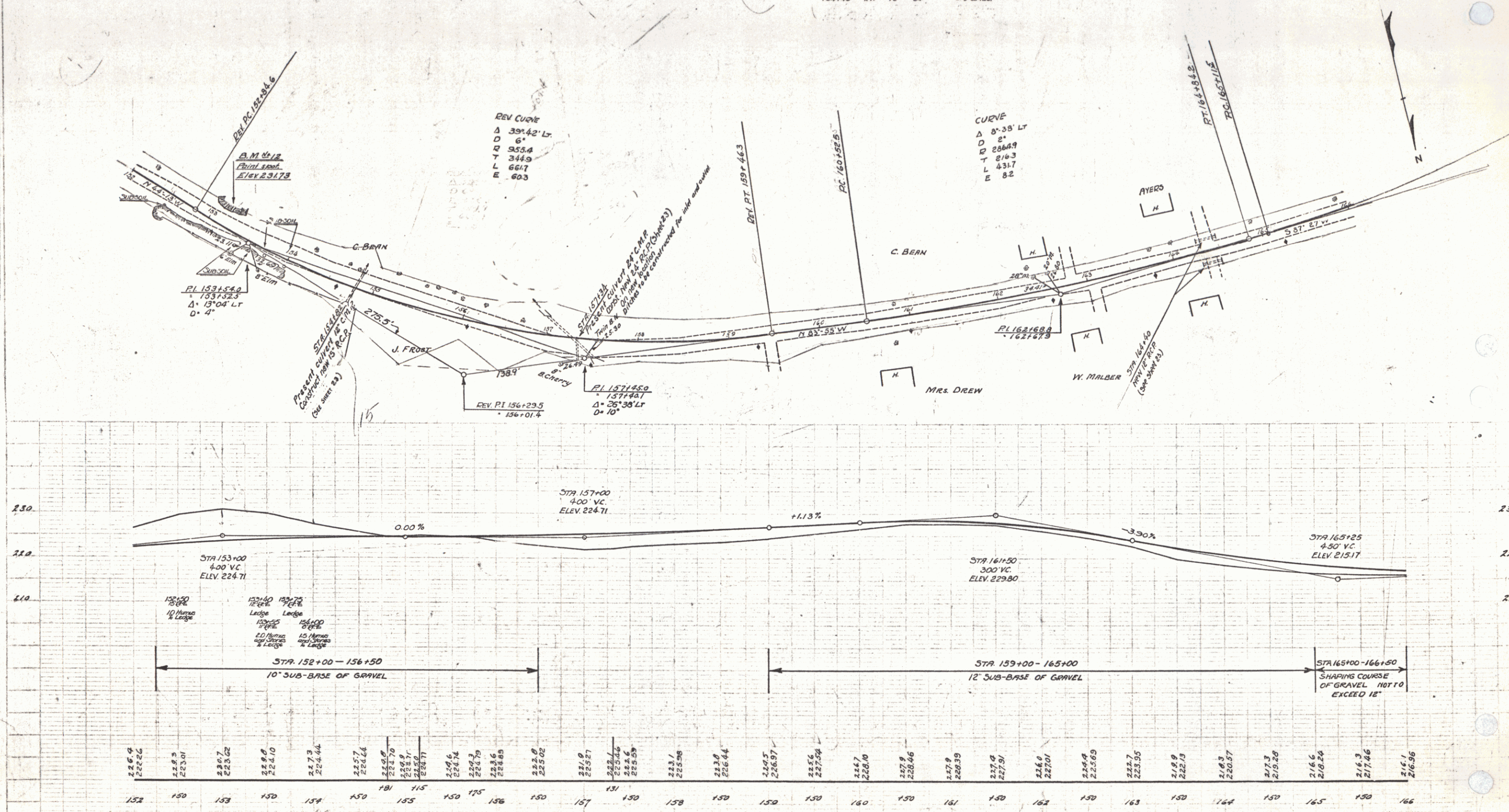
CABLE GUARD RAIL REQUIRED

<u>STATIONS</u>	<u>LEFT</u>	<u>RIGHT</u>
156+50-157+46	96'	-

NEW REINF CONCRETE PIPE CULVERTS REQUIRED					
STATION	DIAM.	LENG	CONC.A	CONC.C	REINF STEEL
157+34	24"	76'	2.4cy	—	54 lbs.
154+82	15"	48'	1.0cy	—	54 lbs.

<u>DRIVEWAY PIPE CULVERTS REQUIRED</u>				
<u>REINF CONC PIPE</u>				
<u>STATION</u>	<u>LO&R</u>	<u>DIAM.</u>	<u>LENG</u>	<u>CEMENT RUBBLE MASONRY</u>
164+40	LT.	18"	24'	23 cu. Yds.
164+100	LT.	18"	24'	23 cu. Yds.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET	TOT SHE
9	VT.	78-C	1930		6



B.M. #12 Paint spot on ledge 9' Left of Sta. 153+20 Elev. 231.73

SERIES F. No 78C
SHEET 14 OF 66

WOOD GUARD RAIL REQUIRED

CULVERT STATION	LEFT	RIGHT
168+10	24'	24'
173+45	24'	24'
175+75	-	24'

CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
175+62-178+42	200'	-
166+31-166+93	64'	64'

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STATION	DIAM.	LENG.	CONC. A	CONC. C	REIN. STEEL
173+45	18"	40'	1.8 cy	-	54 lbs.
175+75	30"	36'	3.2 cy	-	58 lbs.
168+10	18"	40'	1.8 cy	-	54 lbs.

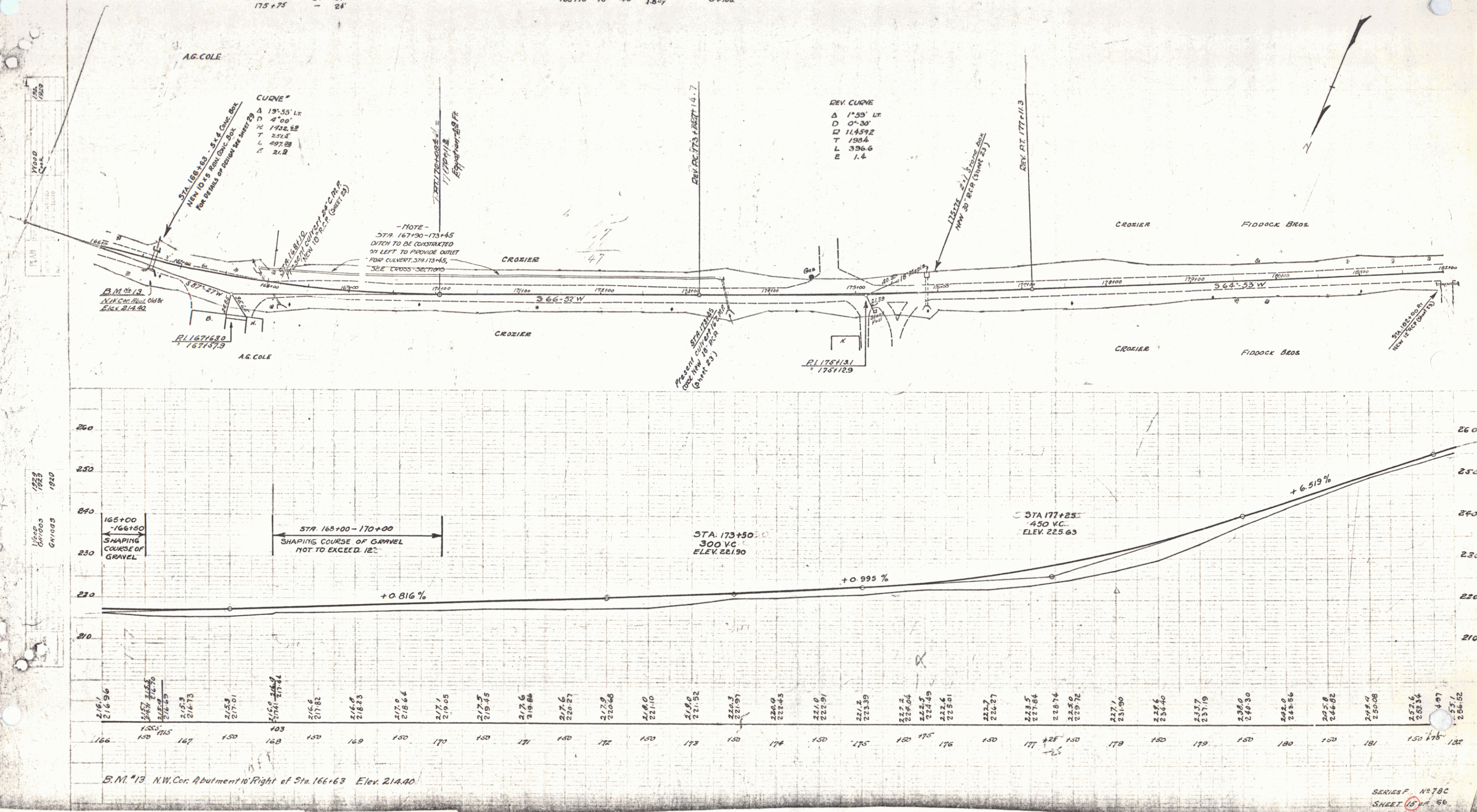
DRIVEWAY PIPE CULVERTS REQUIRED

STATION	DIAM.	LENG.	CONC. A	CONC. C	REIN. STEEL
182+00	12"	24'	2.3 cu yds.	-	-

NEW REIN. CONG. BOX CULVERTS REQUIRED

STATION	SIZE	CONC. CLASS A	REIN. STEEL
166+63	10x5	55.0 cy	4.440*

DATE	BY	CHKD.	APP'D.	NO.	SHEET
VI	78-C	1950	15	1	20



13

WOOD
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193-14

WOOD GUARD RAIL REQUIRED

CULVERT STATION	LEFT	RIGHT
207+50	-	24'
209+50	-	24'

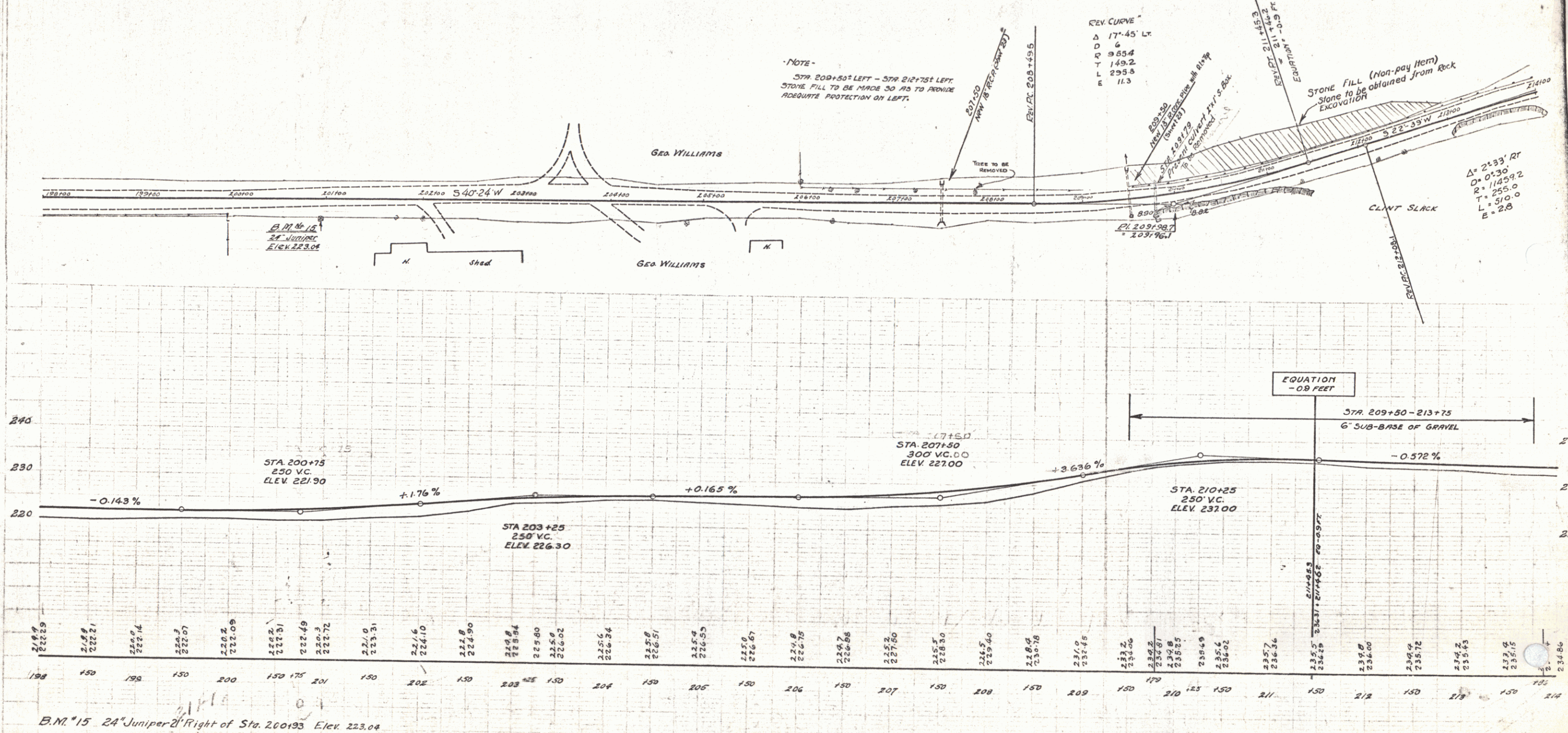
CABLE GUARD RAIL REQUIRED

STATIONING	LEFT	RIGHT
207+35 - 214+00	665'	-

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STA.	DIAM.	LENG.	CONC. A	CONC. C	REIN. STEEL	D.I.	PROPOSED TOP
207+50	18"	40'	1.8 CY	-	54 lbs.	-	-
209+50	18"	48'	2.3 CY	-	104 lbs.	1	1

FILE NO. 78-C-1930
SHEET 17 OF 66



SERIES F No 78C
SHEET 17 OF 66

WOOD GUARD RAIL REQUIRED

CULVERT STATION	LEFT	RIGHT
214+00	-	24'
216+00	24'	24'
221+42	-	24'

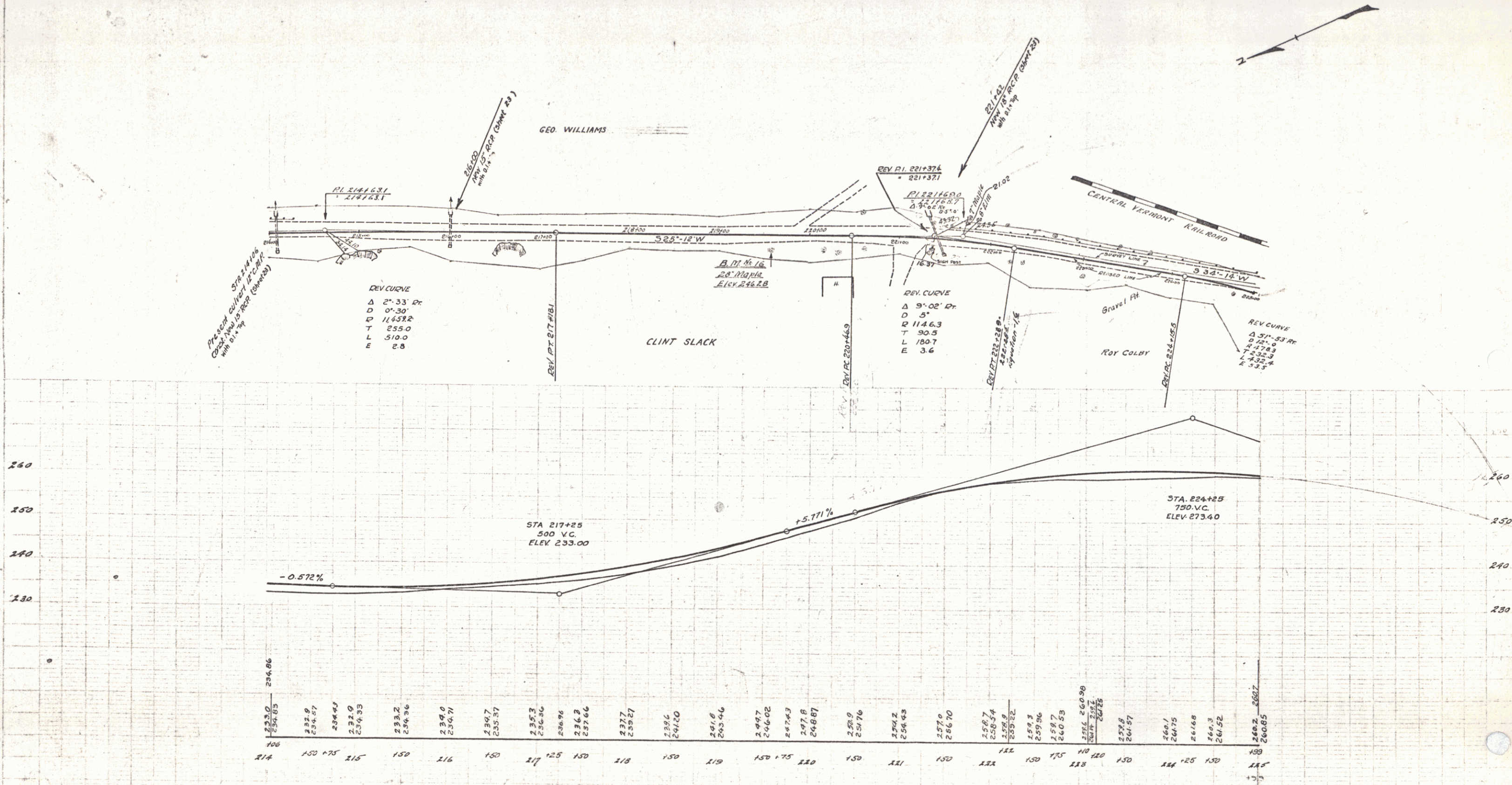
CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
214+00 - 214+15	-15'	-
220+80 - 224+00	-400'	-

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

STA.	DIAM.	LENG.	CONC. A.	CONC. B.	REINFORC.	D.I.	PROPORTION
214+06	15"	40'	2.3 cy	-	184 lbs.	1	1
216+07	15"	36'	2.3 cy	-	184 lbs.	1	1
221+42	18"	48'	2.3 cy	-	184 lbs.	1	1

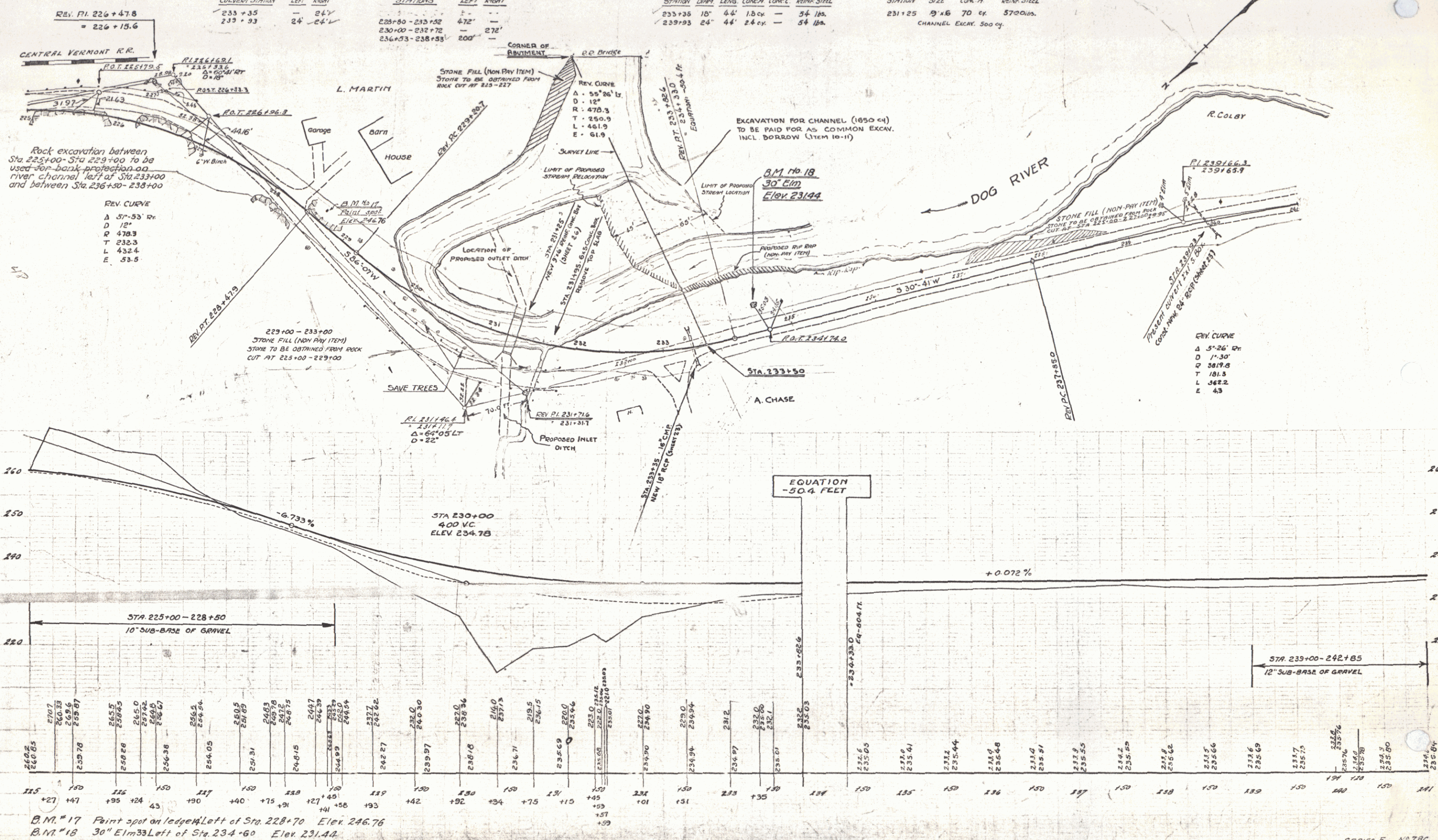
STATE OF VERMONT
78-C-1930 16 66



B.M. 16 28' Maple Right of Sta. 219+5.7 Elev. 246.28

SERIES F N78C
SHEET 16 OF 66

NEW REINF. CONCRETE BOX CULVERTS REQUIRED			
STATION	SIZE	CONC. A.	REINF. STEEL
231+25	9'x6'	70 cy.	5700 lbs.
CHANNEL EXCAV. 500 cy.			

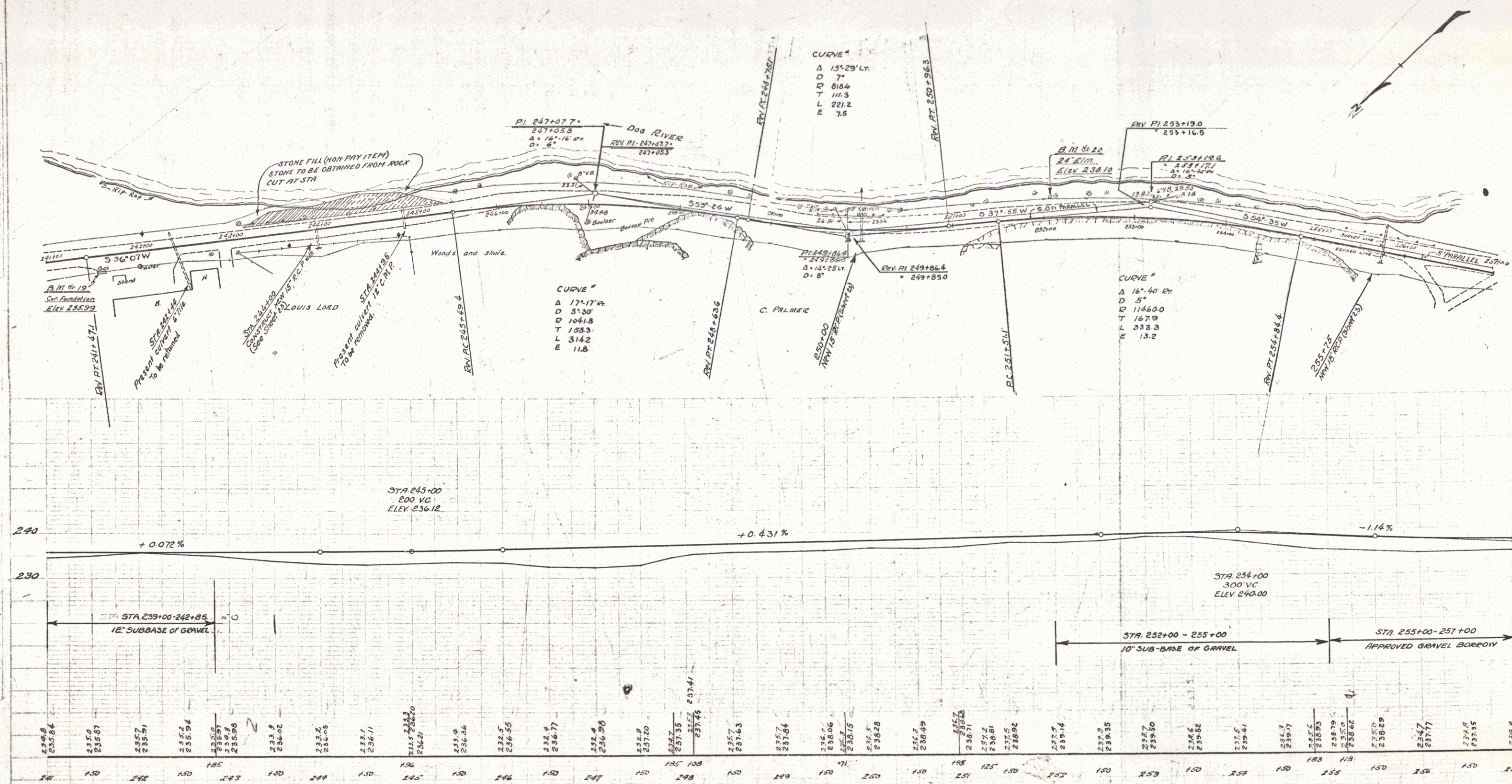


WOOD GUARD RAIL REQUIRED		
CULVERT STATION	LEFT	RIGHT
244+00	-	24'
250+00	-	24'
255+75	-	24'

CABLE GUARD RAIL REQUIRED		
STATIONS	LEFT	RIGHT
243+00-256+52	1352'	-

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED						
STA.	CHURN	LENG.	CONC.	CONC.	REIN. STEEL	D.I. PRECAST TOP
244+00	15"	44'	-	1.2-cy.	17 lbs.	-
250+00	15"	40'	-	1.2 "	17 lbs.	-
255+75	18"	40'	-	1.5 "	17 lbs.	-

FED. ROAD DIST. NO.	STATE	FED. AID FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VI.	70-C	1930	20 66



B.M. #19 Cor. Foundation Right of Sta. 241+55 Elev. 235.99
 B.M. #20 24" Elm. Left of Sta. 252+05 Elev. 238.10

SERIES F N° 70C
 SHEET 20 OF 66

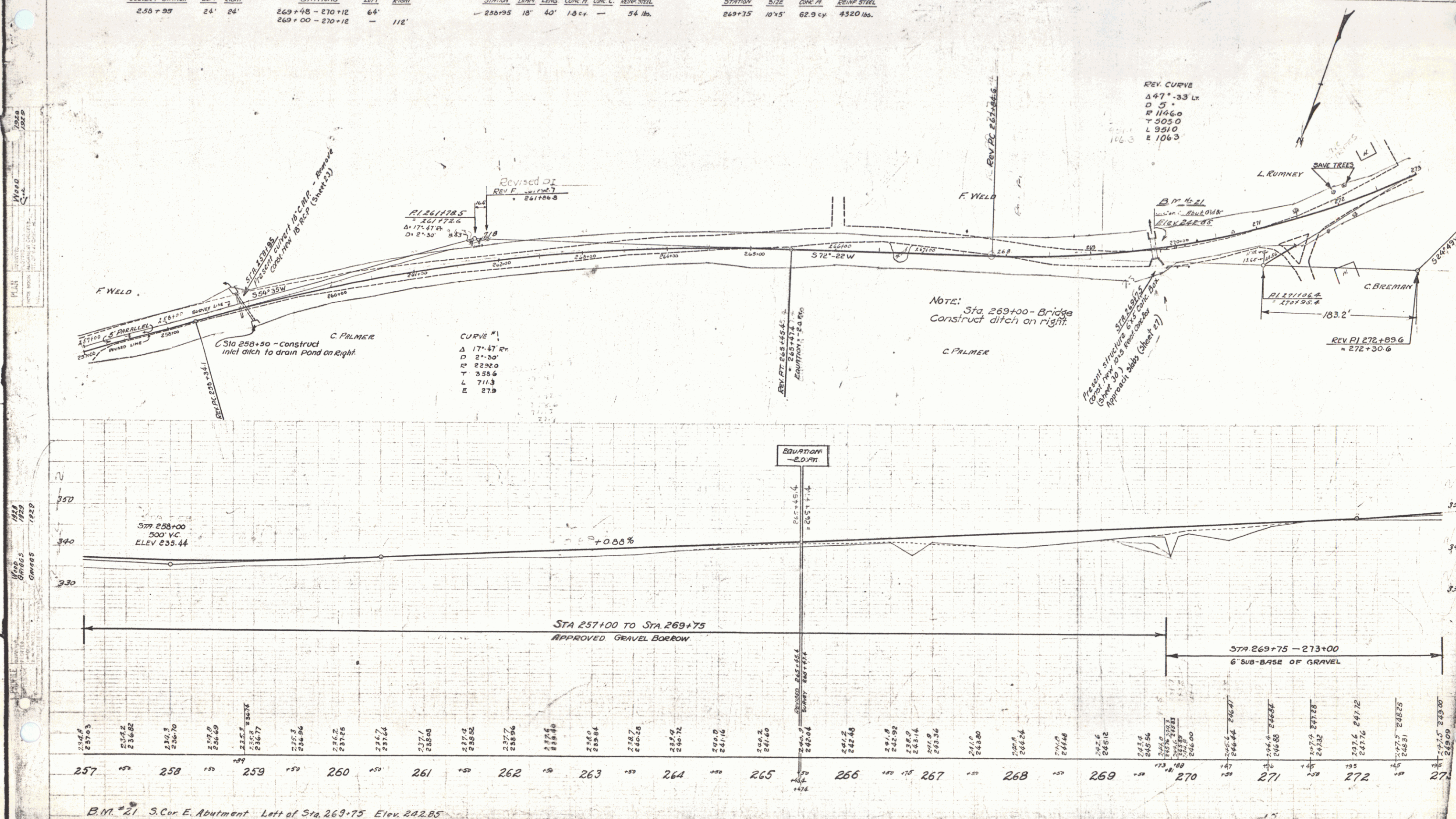
WOOD GUARD RAIL REQUIRED

<u>CULVERT STATION</u>	<u>LEFT</u>	<u>RIGHT</u>
258 + 95	24'	24'

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

NEW BRINE CONCRETE BOX CULVERTS REQUIRED

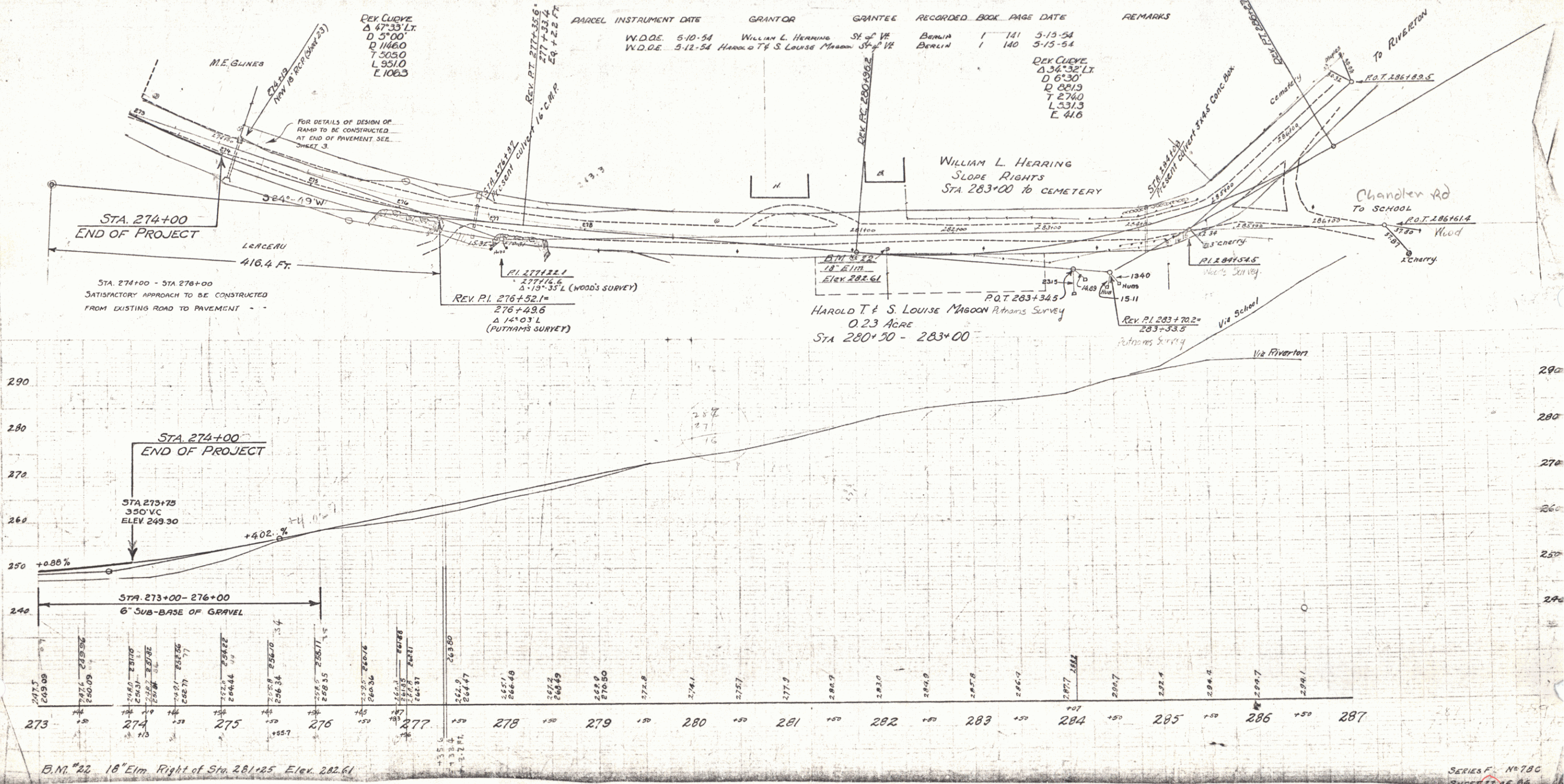
FED. ROAD DIST. NO.	STATE	FED. AID PROV. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	78-C	1930	21	66



WOOD GUARD RAIL REQUIRED		
CULVERT STATION	LEFT	RIGHT
274+19	24'	24'

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED					
STATION	DIAM.	LENG.	CONC.	CONC.	REIN. STEEL
274+19	18"	40'	15 cy	—	5 1/2 lbs.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	TOTAL SHEET NO.	DATE	SHEET NO.
9	VI.	75-C	7930	22	66



SERIES F- No 78C
SHEET 12 OF 66