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STATE OF VERMONT
 STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
 STATE HIGHWAY
 FEDERAL AID PROJECT

Pin # 99R 343

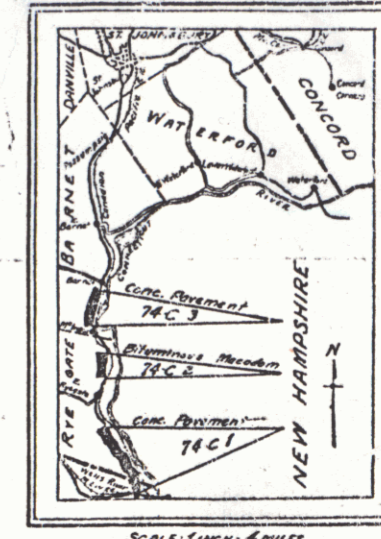
TOWNS OF NEWBURY - RYEGATE - BARNET

WELLS RIVER - ST. JOHNSBURY ROAD

FROM THE BRIDGE ON ROUTE U.S. 5 IN WELLS RIVER
 NORTH 6.388 MILES TO F.A.P. 3 EXCLUDING F.R.P. 15F AND F.A.P. 74A

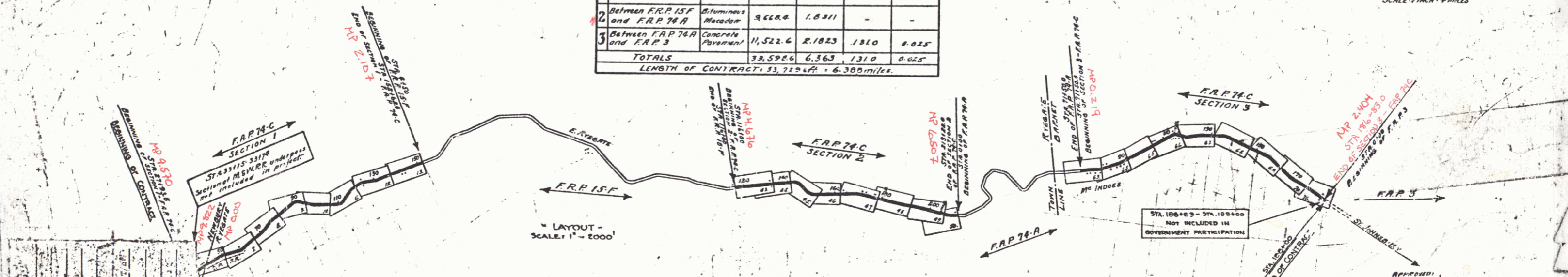
Project: FAP 74C

SECTION	TYPE	LENGTHS			
		Govt. Participation		Non-Govt. Participation	
		FEET	MILES	FEET	MILES
1 South of F.R.P. 15F	Concrete Pavement	12,407.6	2.3499	-	-
2 Between F.R.P. 15F and F.A.P. 74A	Bituminous Macadam	9,668.4	1.8311	-	-
3 Between F.A.P. 74A and F.A.P. 3	Concrete Pavement	11,522.6	2.1823	131.0	0.025
TOTALS		33,598.6	6.3633	131.0	0.025
LENGTH OF CONTRACT: 33,712.4 ft. = 6.388 miles.					



NEWBURY TO ST. J.

U.S. 5



CONVENTIONAL SIGNS

GROUND ELEVATION FEET LINE

GRADE ELEVATION FEET 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.

SCALES

PLAN 1" = 50'

PROFILE (HORIZONTAL) 1" = 50'

PROFILE (VERTICAL) 1" = 10'

CROSS SECTIONS 1" = 5'

This project to be constructed in accordance with Standard Road and Bridge Specifications for 1930. These plans are subject to such revisions as may be required by the Bureau of Public Roads, or the Chief Engineer.

RIGHT-OF-WAY DIVISION
 TOWN FILE
 PERPETUAL
 Town of US
 (To Be Returned To R.O.W. Division)

APPROVED: W. Edouard 1930
 CHIEF ENGINEER OF HIGHWAYS

RECOMMENDED FOR APPROVAL

APPROVED

PLANS COMPLETED MAR. 10 30

SERIES F. NO. 74C FILED SHEET 1 OF 97

DIST. # 9 PLANS

WOOD GUARD RAIL REQUIRED

Station	Left	Right
36100	24'	-

TIES OF STA 28124

Stations	Left	Right
27193-32117	-	424'

CABLE GUARD RAIL REQUIRED

Station	Span	Length	Conc. R	Steel	DIS. ON
28140	18'	44'	14 c.y.	90'	1
30135	18'	36'	14	99	1
35114	12'	28'	28	199	2
36100	12'	26'	14	99	1

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Span	Length	Conc. R	Steel	DIS. ON
28140	18'	44'	14 c.y.	90'	1
30135	18'	36'	14	99	1
35114	12'	28'	28	199	2
36100	12'	26'	14	99	1

OTHER DROP INLETS REQUIRED

Station	Span	Length	Conc. R	Steel	DIS. ON
28118	18'	44'	14 c.y.	90'	1
35180	12'	26'	14	99	1

NEW VIT. CLAY PIPE REQUIRED

Station	Span	Length	Conc. R	Steel	DIS. ON
27038-31405	18'	44'	14 c.y.	90'	1
33174-34185	12'	26'	14	99	1

CULVERT REPAIRS REQUIRED

Station	Type	Repair	Conc. R	Steel	DIS. ON
35185-4115	NEW FLOOR	9.0 c.y.	26.3185	26.3185	2

NEW CONC CURB AND GUTTER REQUIRED

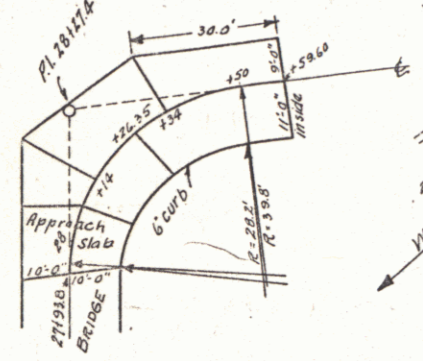
Stations	Lead	Width	Curb Hgt	Conc. R	Steel	DIS. ON
27038-31405	0'	2'0"	6"	26.3	1033	2
33174-34185	L	2'0"	6"	10	295	2

ROUTED COPPLE GUTTER REQUIRED

Stations	Lead	Width	Length	Conc. R	Steel	DIS. ON
30125	0'	4'0"	274'	120		

FILE NO. 74C 1939 5 97

STR. 27193-27193B
Present structure I beam bridge
Length over all spans
Roadway width, 20 ft
constructed in 1929



SLAB LAYOUT - BRIDGE APPROACH
Scale: 1" = 20'

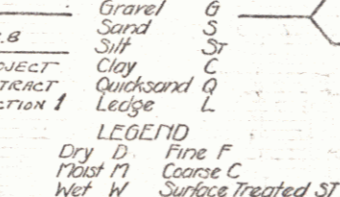
NOTE:
Driveways to be constructed to provide
satisfactory approaches to pavement
at locations shown on cross-sections,
or as directed by the Engineer.

CURVE '9
REVISIONS 1930

PI	33.561
PC	31.20.9
PT	35.32.4
D	33'30"
A	243.8
T	212.3
L	473.4
C	133.9

POST
REVISIONS 1930
TIES RECORDED
AT 32+40
JULY 31

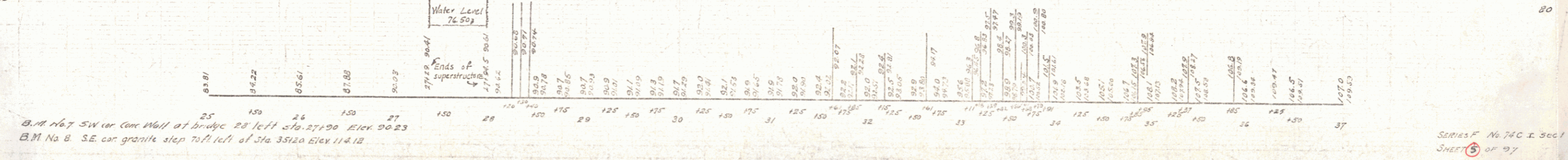
SUB-SOIL CLASSIFICATION



LEGEND
Dry D Fine F
Moist M Coarse C
Wet W Surface Treated ST

Date of Investigation
Oct. 10-20, 1929

STR. 29175
100' V.C.
Elev 91.17



B.M. No. 7 SW cor. Conc Wall at bridge 23' left Sta. 27190 Elev. 90.23
B.M. No. 8 S.E. cor. granite step 70 ft left of Sta. 35120 Elev. 114.12

SERIES F No. 74C I. Sec. 1
SHEET 5 of 97

WEEK GUARD RAIL REQUIRED

Station	Left	Right
62130	26'	-

CABLE GUARD RAIL REQUIRED

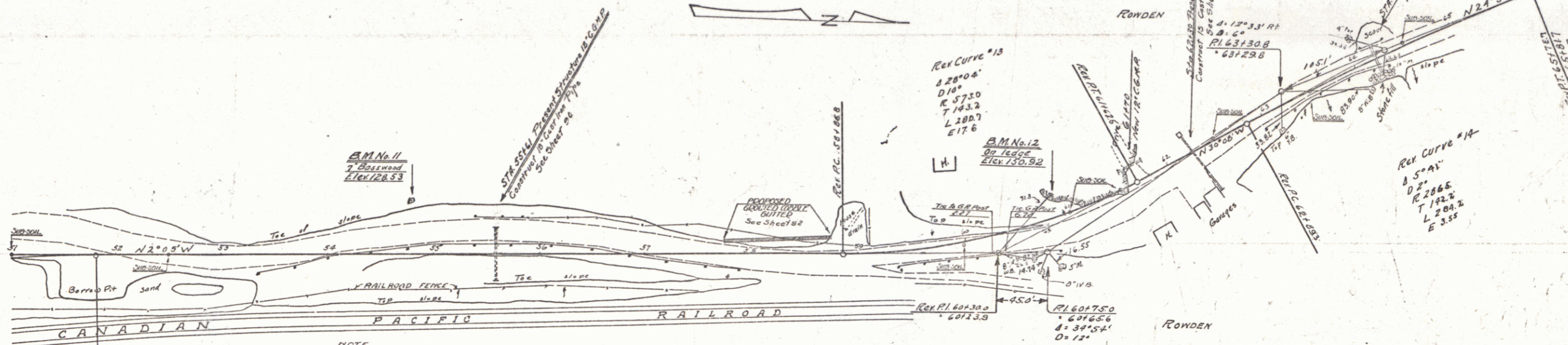
Stations	Left	Right
55180-60104	48'	624'
55161	48'	-
63100-64136	-	136'

NEW CAST IRON PIPE CULVERTS REQUIRED

Sta	Diam	Length	Comp. B.	Comp. C.	Steel	Feet/ft
55161	18"	52'	15	1.9	3.3	174
62130	15"	64'	15	1.9	174	1

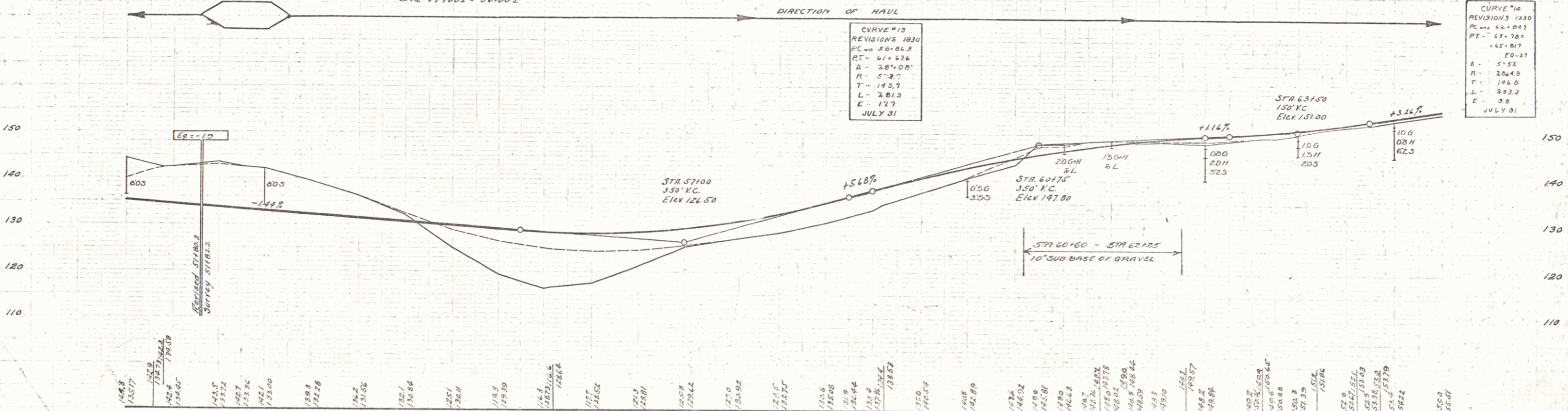
ACCURATE CORN LIGHTS PROVIDED
 STA 55180-60104 1000' 440
 STA 62130-64136 1000' 440

NEW C.G.M. DRIVEWAY PIPES REQUIRED
 Station Diam Length Cem. Kvt. Material
 61176-62 12" 24' 2.3 cy.



NOTE
 Contractor will be required to move Railroad ROW fence back of proposed limits of cuts or fills previous to construction and replace same on Railroad ROW line following the completion of the grading. This work to be done as directed by the Engineer.
 Payment for moving and reseting of Railroad ROW fence to be on a cost plus basis as stated in Vt. Spec. Pamphlet 19, Sec. 9

Sta 41100 - 56400



B.M. No. 11. Spike in roof of T Basswood, 49' left of Sta. 54178 Elev 128.53.
 B.M. No. 12. Point on ledge, 25' left of Sta. 60191 Elev 150.92.

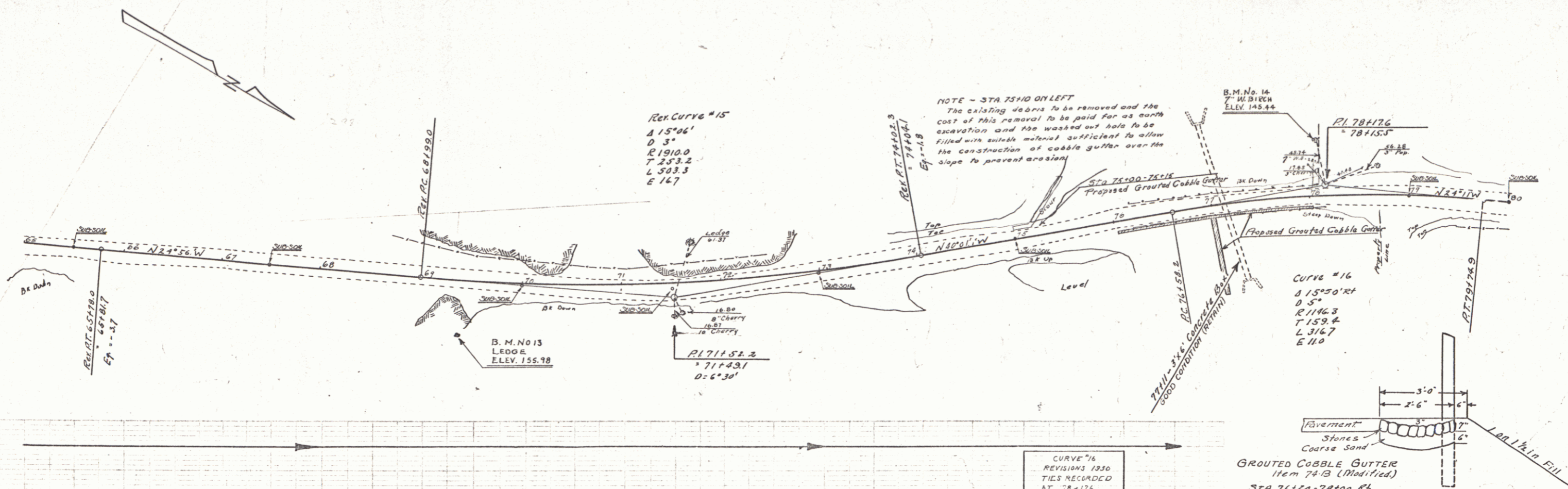
CABLE GUARD RAIL REQUIRED

Stations	Left	Right
76120-78120	200'	200'

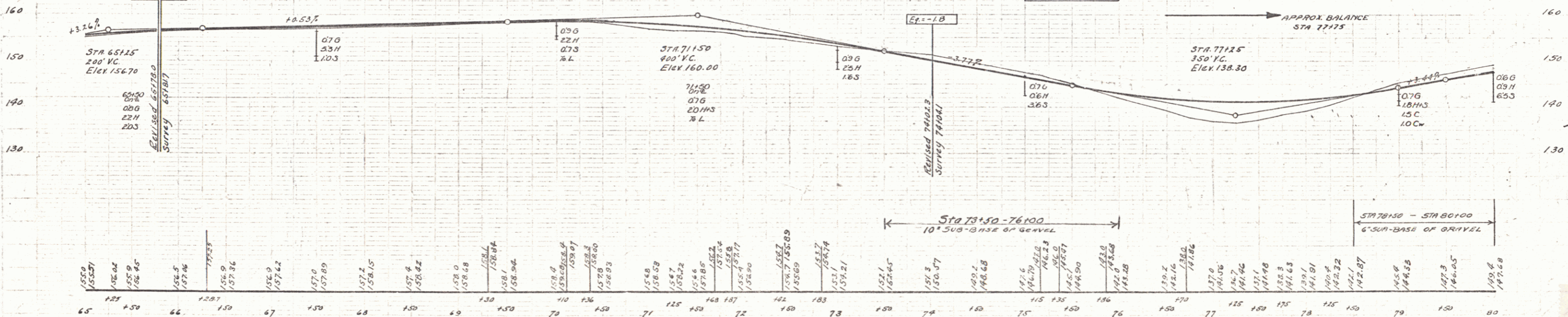
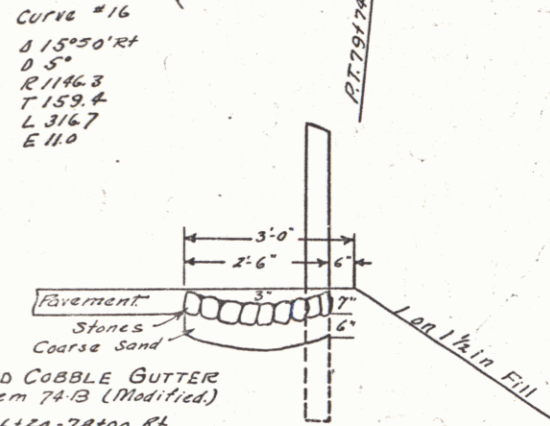
GROUTED COBBLE GUTTER REQUIRED

STATION	Left	Right	WIDTH	LENGTH	AREA
76120-76175	20'	40'	25"	3350	100
76175-77100	Runoff	40'	25"	156	156
77100-78100	Runoff	40'	25"	356	356
78100-78100	Runoff	40'	25"	200	556

FED. ROAD STATE DIST. NO. YEAR SHEET NO. 74C 1930 8 97



NOTE - STA 7510 ON LEFT
The existing weirs to be removed and the cost of this removal to be paid for as earth excavation and the washed out hole to be filled with suitable material sufficient to allow the construction of cobble gutter over the slope to prevent erosion.



B.M. No. 13 Point on Ledge 58' RI Sta. 69+38 Elev. 155.98
B.M. No. 14 Spike in root of T. W. Birch 57' L Sta. 78103 Elev. 145.44

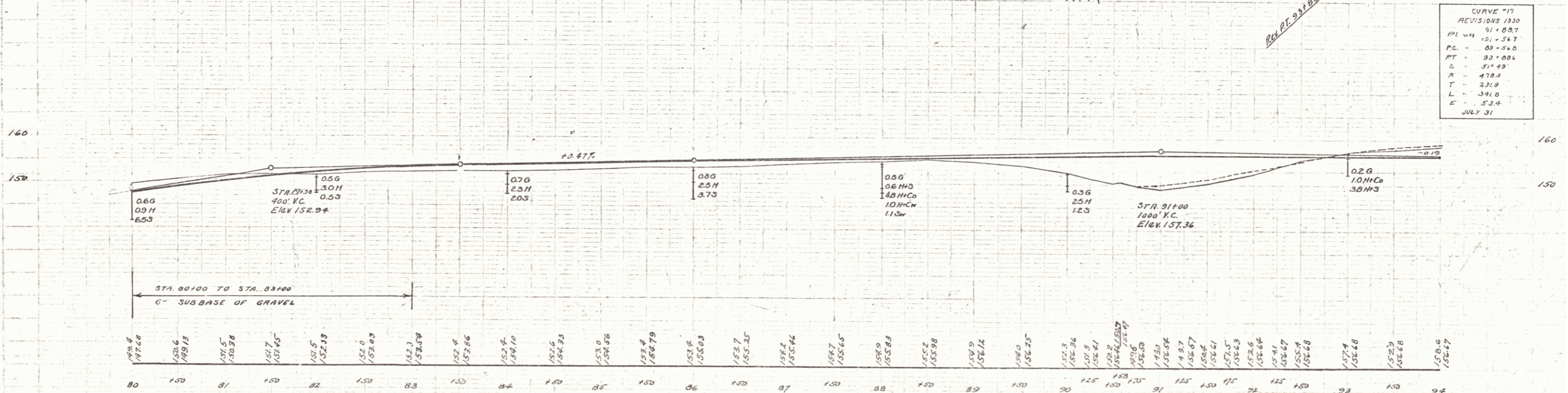
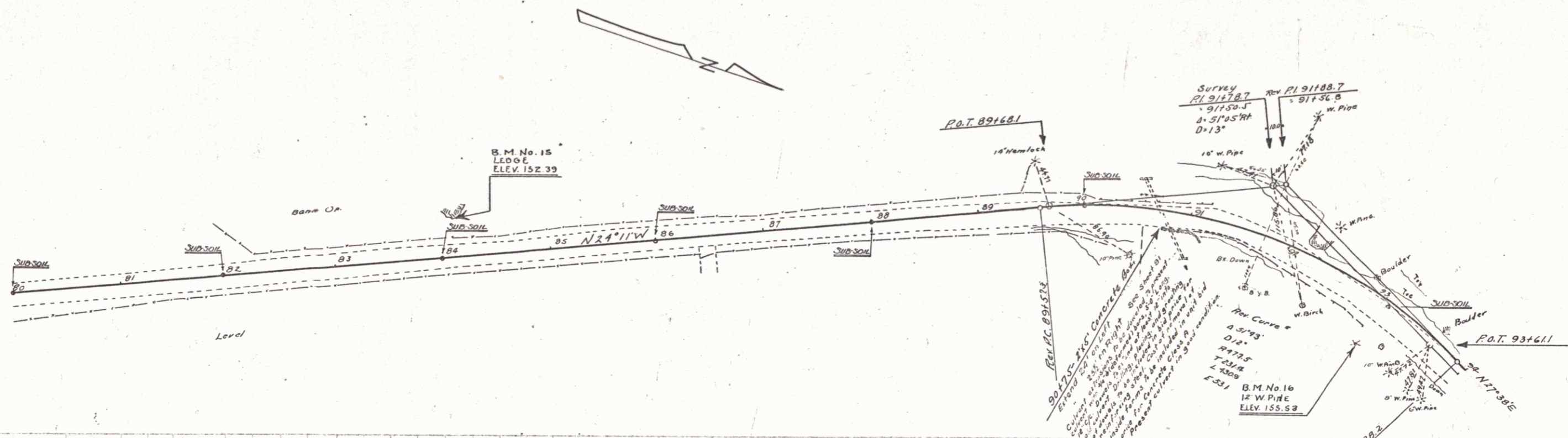
5

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
90+00-92+00	200'	-
90+25-92+89	-	264'

CULVERT EXTENSIONS REQUIRED
 STATION SIZE 12' x 12' 6" COIL CH² STEEL
 90+15 2'10" 2'4" 2 1/2" 242CX 1878"

FED. ROAD DIST. NO. STATE PROJ. NO. YEAR SHEET NO. TOTAL SHEETS
 5 VI. 74C 1930 9 97



CURVE #17

REVISIONS	1930
PI	91+00.7
PC	90+88.7
PT	91+12.7
L	24.0
R	478.0
T	231.9
E	511.49
D	13°
DATE	JULY 31

B.M. No. 15, Point on 15' Ledge 36' Lf Sta. 84+10 Elev. 152.37
 B.M. No. 16, Spike in roof of 12" Pipe 45' RA " 93+06 " 155.53

WOOD GUARD RAIL REQUIRED

Station	Left	Right
95167	29'	-

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
94196-96100	-	100'

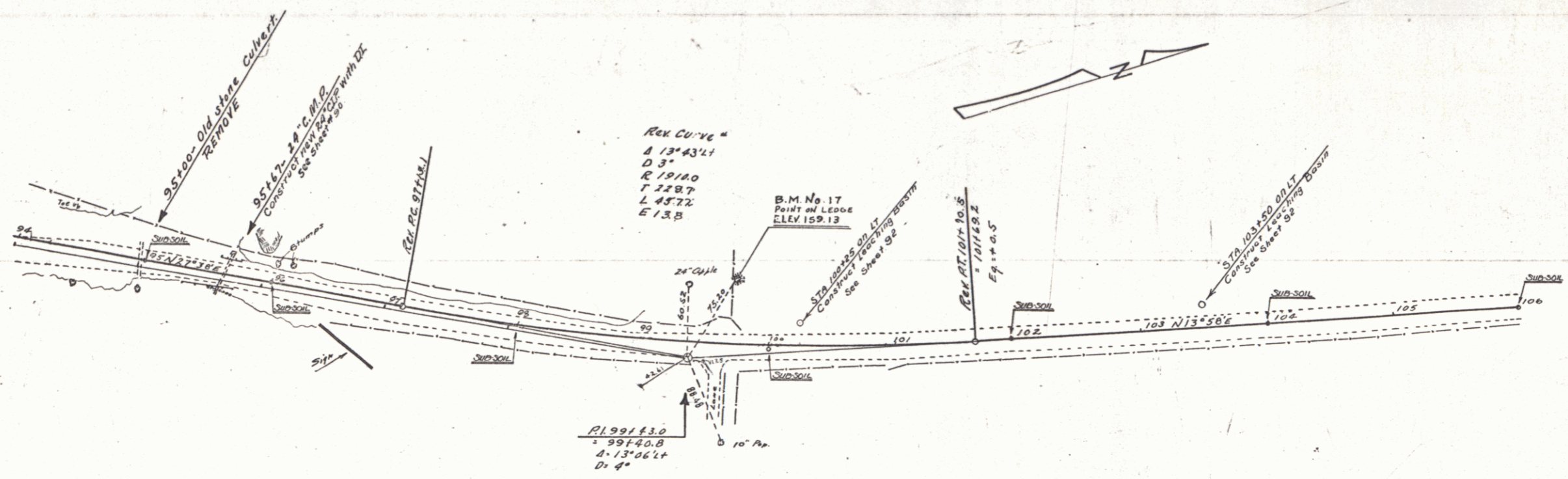
NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diem	Length	Conc'n	Steel	DI	Prop'd Top
95167	24"	39	2.80%	18V"	1	1

NEW LEACHING BASINS REQUIRED

STATION	LT	RT
100+25	LT	
103+50		LT

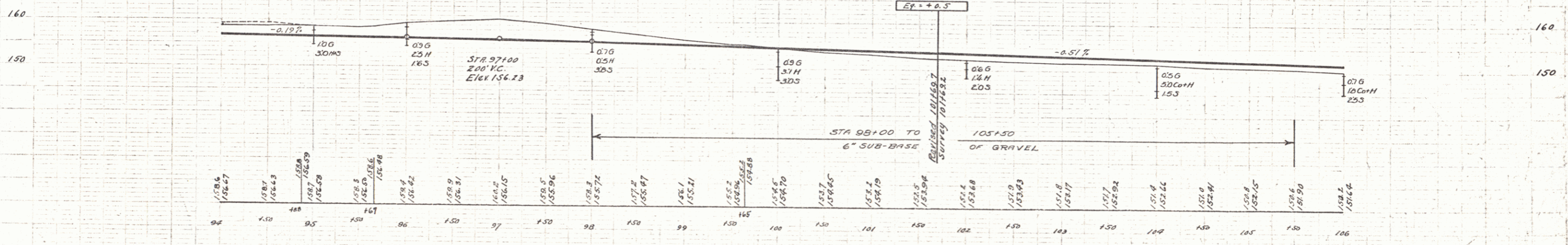
ED. ROAD	STATE	1:400	1:200	1:100	TOTAL
7-C 1936 10 97					



REV CURVE #
 Δ 13°43'21"
 D 3"
 R 1918.0
 T 228.7
 L 457.2
 E 13.8

AL99143.0
 = 99+40.8
 Δ 13°06'21"
 D 4"

CURVE #18
 REVISIONS 1930
 PC = 97+14.1
 PT = 101+43.7
 Δ = 13°40'
 R = 1910.1
 T = 228.9
 L = 455.6
 E = 13.7
 JULY 31



B. M. No. 17 Point on Ledge by fence Sta. 99+80 Elev. 159.13

7

WOOD GUARD RAIL REQUIRED

Station	Left	Right
125+41	24'	-
130+25	24'	-

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
125+10 - 126+14	-	104'
130+12 - 132+12	-	200'

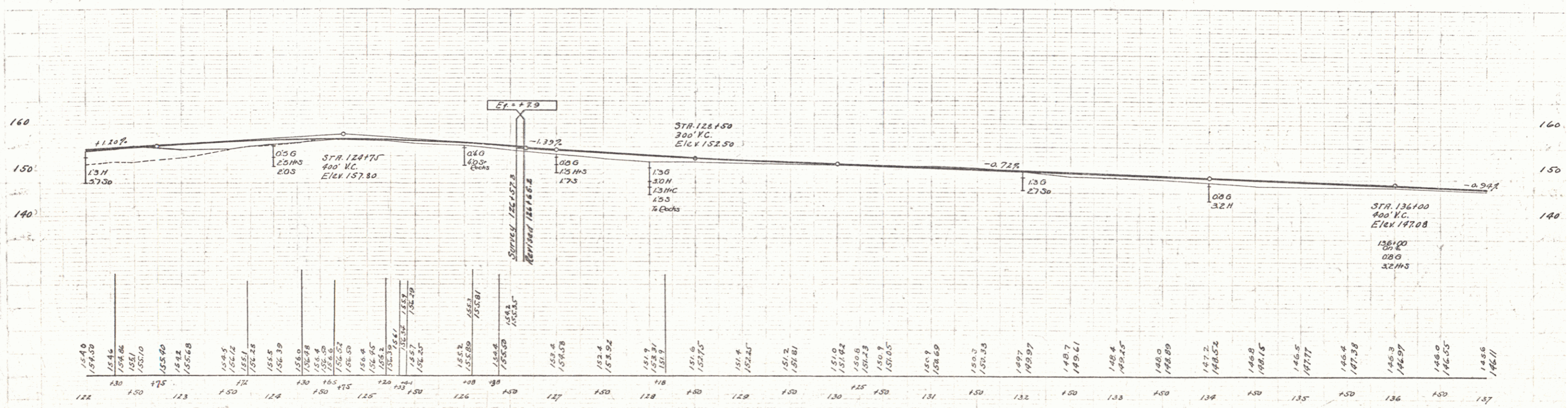
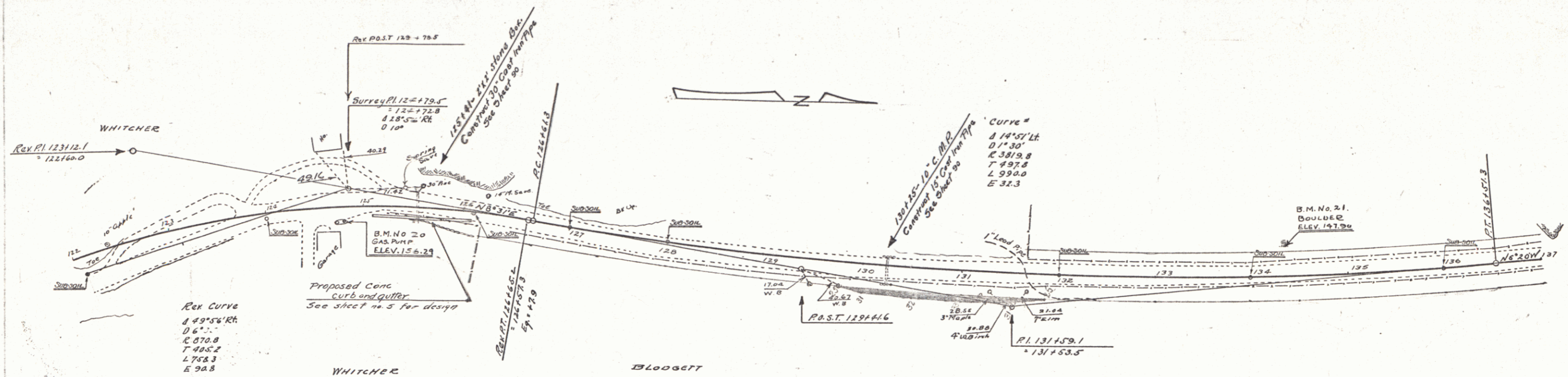
NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diem	Length	Conc. P	Conc. C	Steel
125+41	30"	44'	3.2cy.		58"
130+25	15"	40'		2.3cy.	33"

CONCRETE CURB & GUTTER REQUIRED

Station	Width	Length	Conc. P	Steel
125+10 - 126+10	2' R/L	100'	6.4CY	266"

STATE OF CALIFORNIA
 DIVISION OF HIGHWAYS
 PROJECT NO. 14-C 1936 12 27



B.M. No. 20 N.E. Cor. Socony Pump Foundation, 13.11 Rt Sta. 125+29 Elev. 156.29
 B.M. No. 21 Top of Ledge front of 12' Boulder 30ft Lf. Sta. 134+34 " 147.90

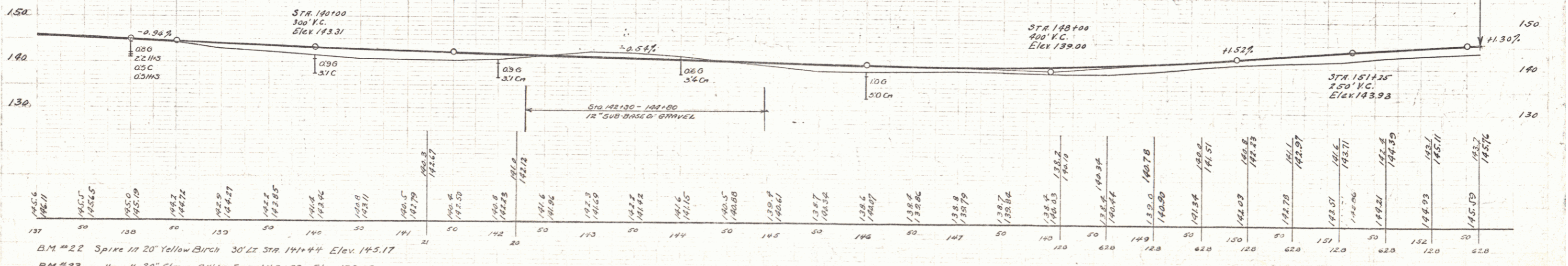
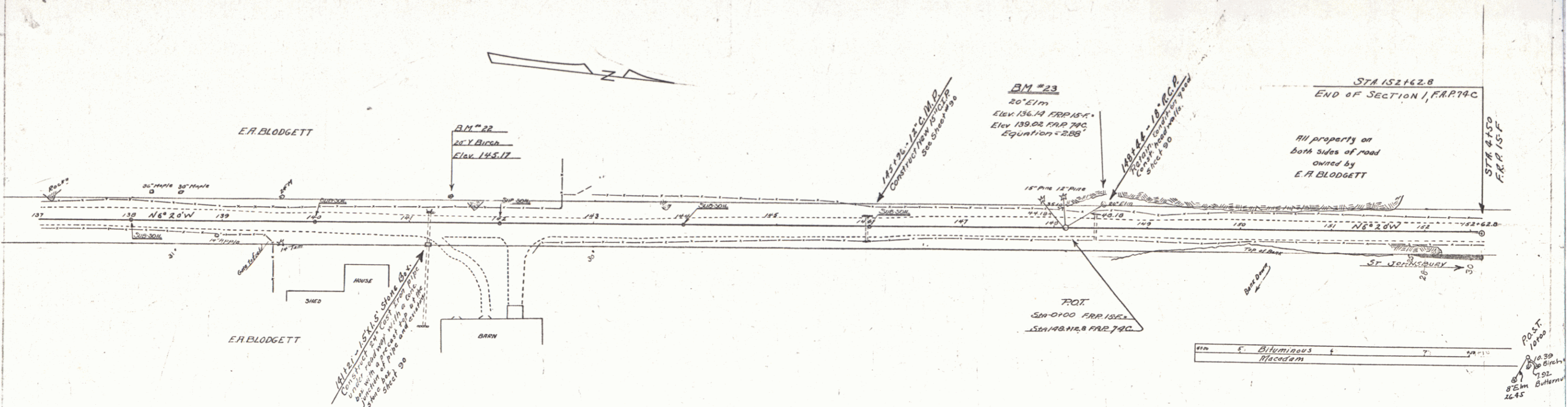
WOOD GUARD RAIL REQUIRED

Station	Left	Right
141+21	24'	-
145+96	24'	24'
148+44	24'	24'

NEW CAST IRON PIPE CULVERTS REQUIRED

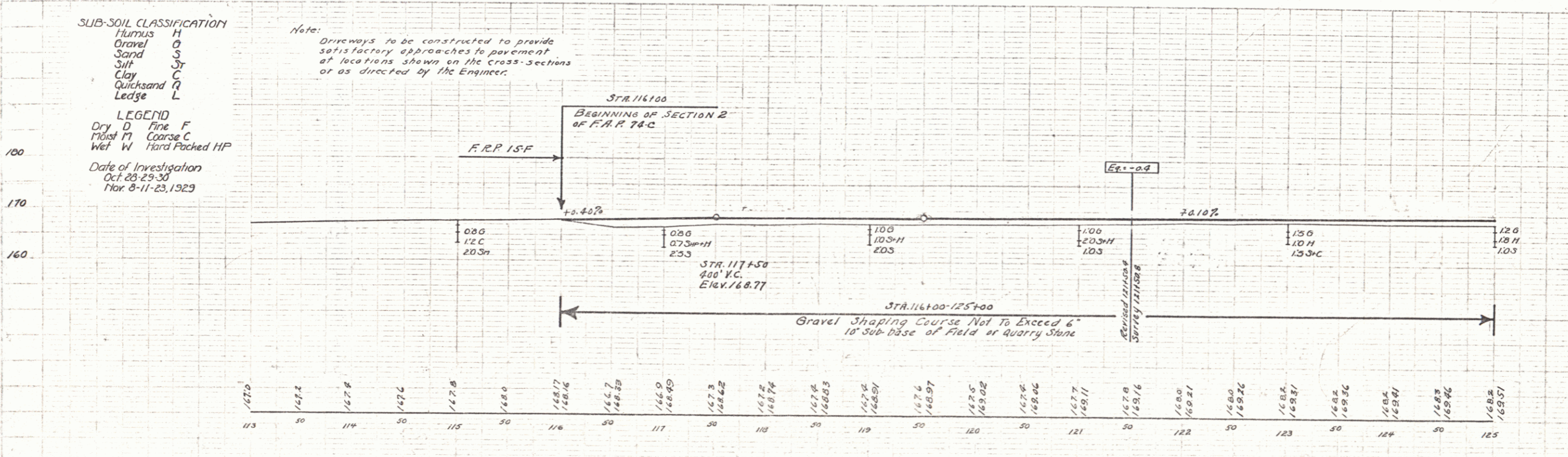
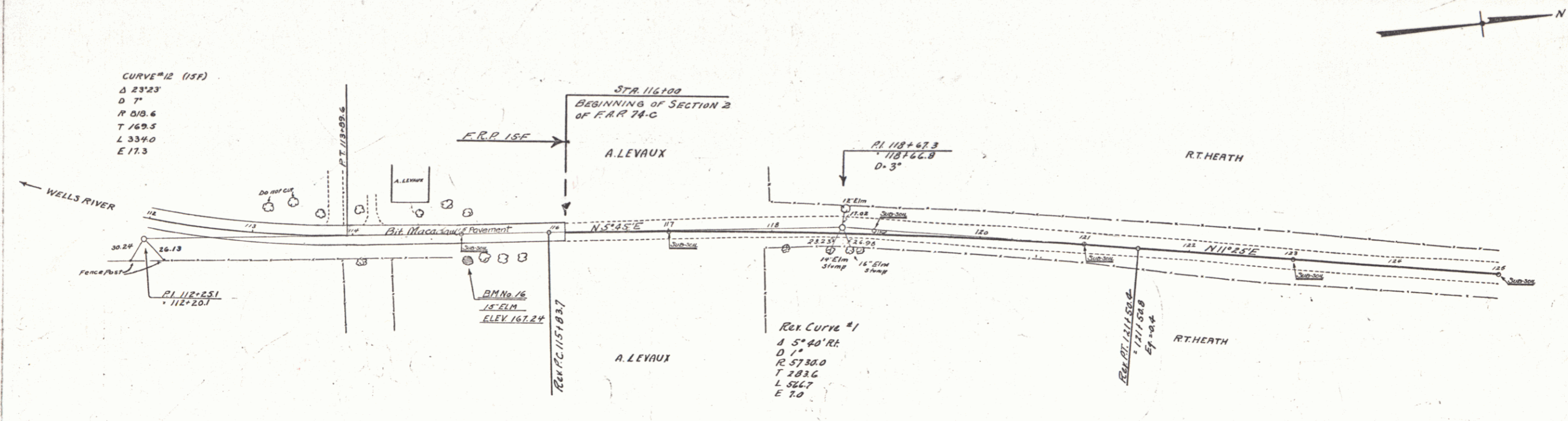
STATION	DIAM.	LENGTH	CONCR.	CONC'D	STEEL
141+21	24"	36'	3.12K	-	184#
145+96	15"	40'	0.8	2.3	33#
148+44	18" (in place)	-	-	1.5	40#

FIELD BOOK STATE OF NEW YORK
 14-C. 1930 13 27



BM #22 Spike in 20' Yellow Birch 30' Lx Sta. 141+44 Elev. 145.17
 BM #23 " " 20' Elm 24' Lx Sta. 140+52 Elev. 139.02
 (B.M. O of 15F Elev. 136.14)

SERIES F No 770 Sec 1
 SHEET 13 of 27



B.M. NO. 16 15' ELM. 21' RT. STA. 115+03 ELEV. 167.24

113	167.0	50	114	167.4	50	115	167.8	50	116	168.2	50	117	168.6	50	118	169.0	50	119	169.4	50	120	169.8	50	121	170.2	50	122	170.6	50	123	171.0	50	124	171.4	50	125	171.8
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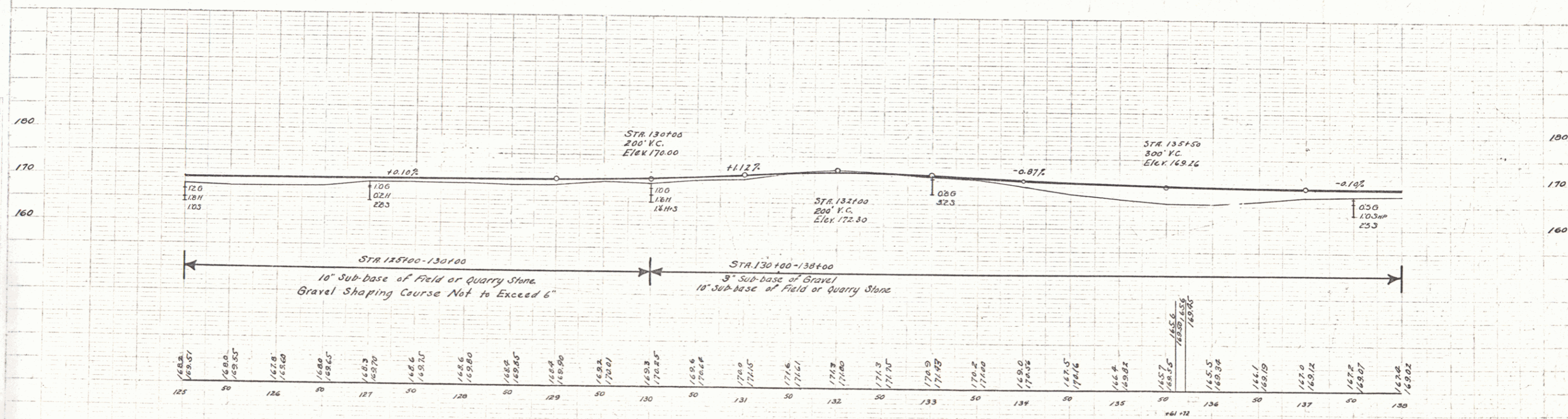
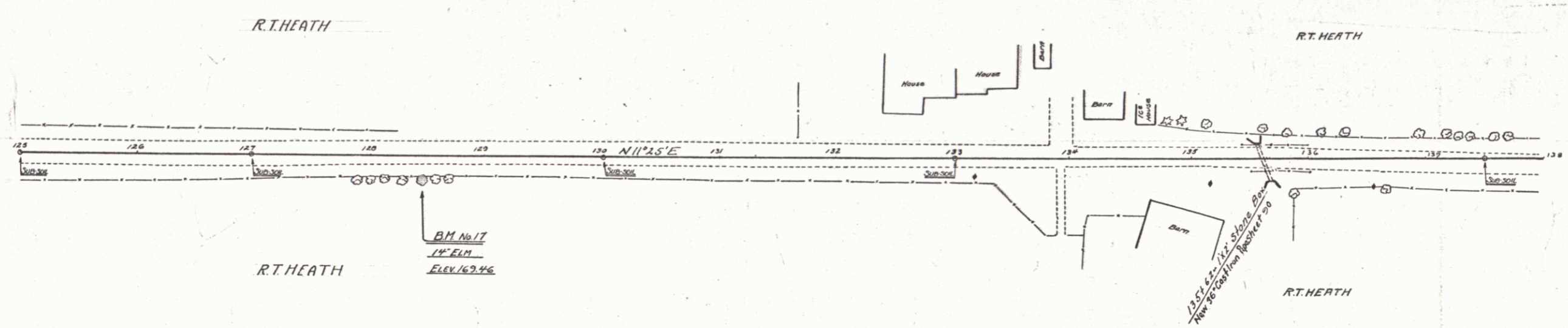
CABLE GUARD RAIL REQUIRED

Station	Left	Right
135+62	48	48

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam	Length	Cone CL.R	Steel
135+62	36"	42 ft	40 CF	50 lbs

FED. ROAD STATE FED. AID FISCAL YEAR SHEET TOTAL
 DIST. NO. PROJ. NO. YEAR NO. SHEETS
 VT. 74-C-1936 44 97



B.M. No 17 - 14' ELM 17 RT. OF STA. 128+43 ELEV. 169.46

SERIES F No. 74-C Sec. 2
 SKETCH OF 97

WOOD GUARD RAIL REQUIRED

Station	Left	Right
145194	-	24

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
141185-142+89	104	-
148125-149+29	504	-
148100-151+76	-	376
150125-153+00	275	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diag	Length	Conc. P.	Steel
145194	18"	72'	18 cy	54'
148115	24"	182'	24	54'
142162	18"	45'	2.3	184'

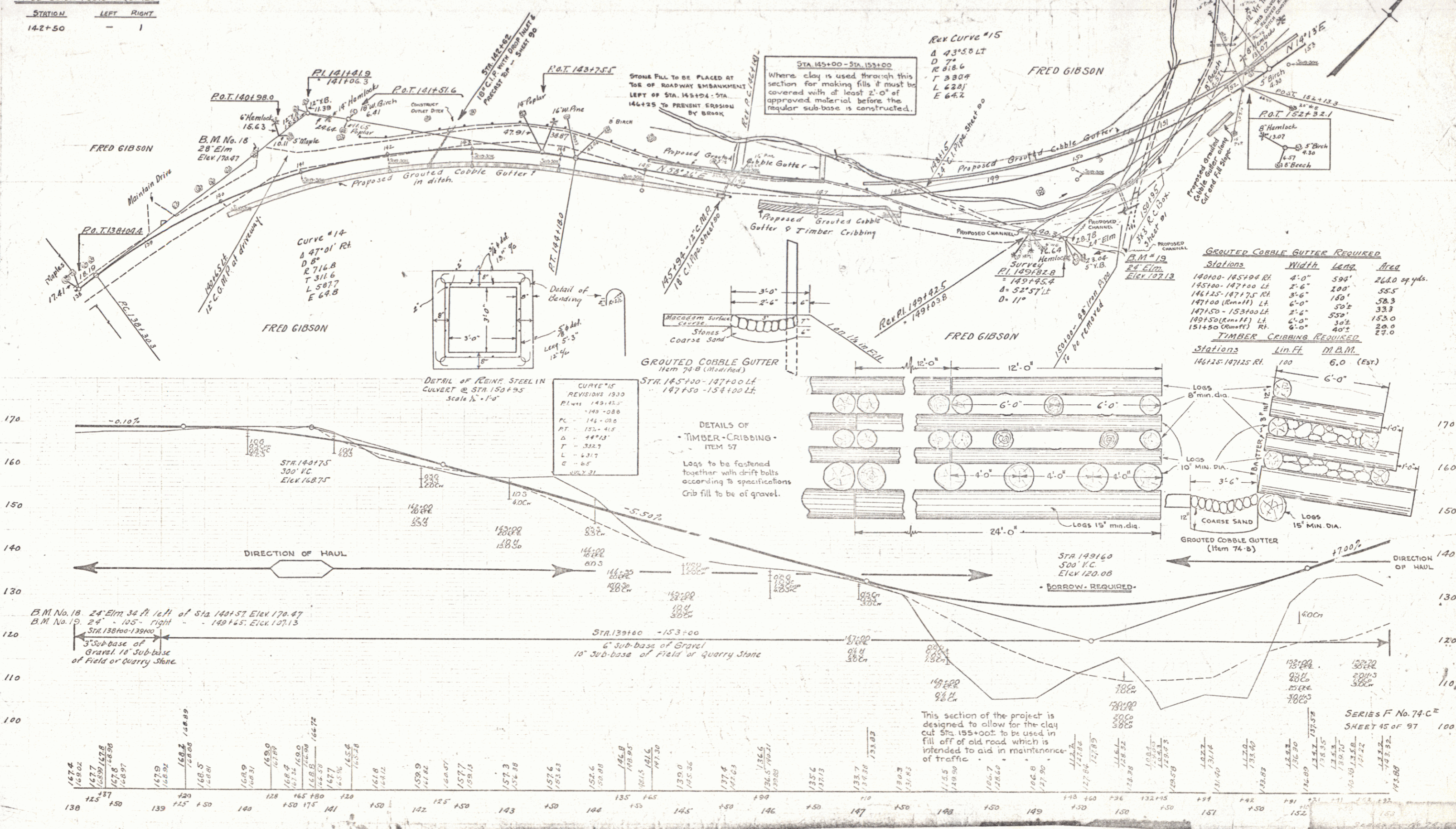
NEW REIN. CONC. BOX CULVERTS REQUIRED

Station	Size	Conc. P.	Steel
150195	3x3'	580 cy	4308'

WOOD GUIDE POSTS REQUIRED

Station	Left	Right
142+50	-	1

FED. ROAD DIST. NO. STATE FISCAL YEAR SHEET NO. OF SHEETS
 79-C# 1936 45 07



GRADED COBBLE GUTTER REQUIRED

Stations	Width	Length	Area
140100-145104 Rt.	4'-0"	599'	244.0 sq yds.
145100-147100 Lt.	2'-6"	200'	56.5
146125-147175 Rt.	3'-6"	180'	58.3
147100 (Remain) Lt.	6'-0"	50 1/2'	33.3
147150-152300 Lt.	2'-6"	539'	364
149150 (Remain) Lt.	6'-0"	539'	153.0
151+50 (Remain) Rt.	6'-0"	40 1/2'	20.0
			27.0

TIMBER CRIBBING REQUIRED

Stations	Lin. Ft.	M.B.M.
146125-147125 Rt.	100	6.0 (Est.)

CURVE #15 REVISIONS 1930

P.I.	149125
P.C.	148-088
P.T.	152-418
Δ	44°13'
T	322.7
L	431.7
E	0.8
C	102.31

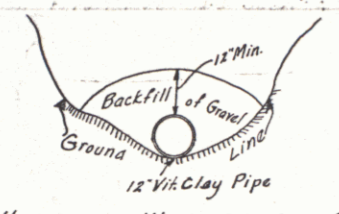
This section of the project is designed to allow for the clay cut Sta 155+00 to be used in fill off of old road which is intended to aid in maintenance of traffic.

CABLE GUARD RAIL REQUIRED

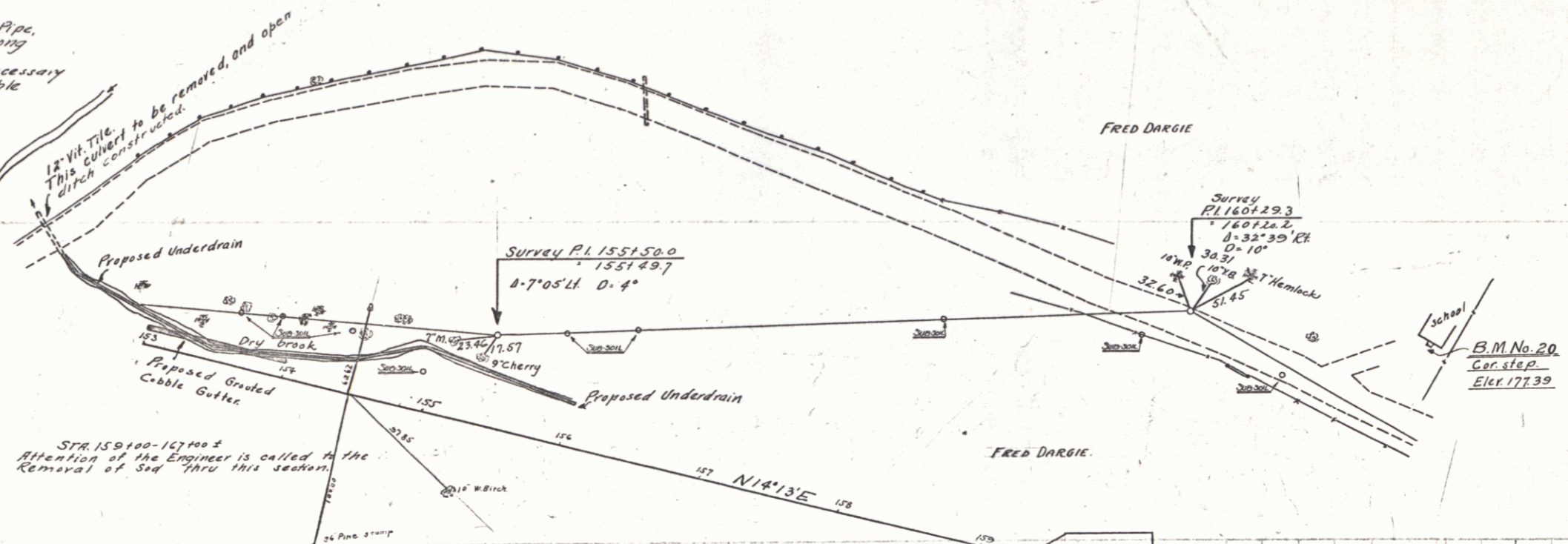
Stations	Left	Right
153100-153129	29	-

SECTION	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	STATIONS	WIDTH	LENGTH	SCALE
74C	PA	1930	46	97	153100-154100	1'-6"	100'	28 sq. ft.

Sta 152100 - 154100 Lt.
 Standard Underdrain with 12" Vit. Clay Pipe, as shown on sketch below is to be laid along the existing stream bed before filling is commenced, if this measure is deemed necessary by the Engineer to take care of all possible Seepage Conditions through this section. If, however, it is found that a surface ditch will adequately take care of the drainage, a Grouted Cable Gutter is to be constructed along the ditch line.

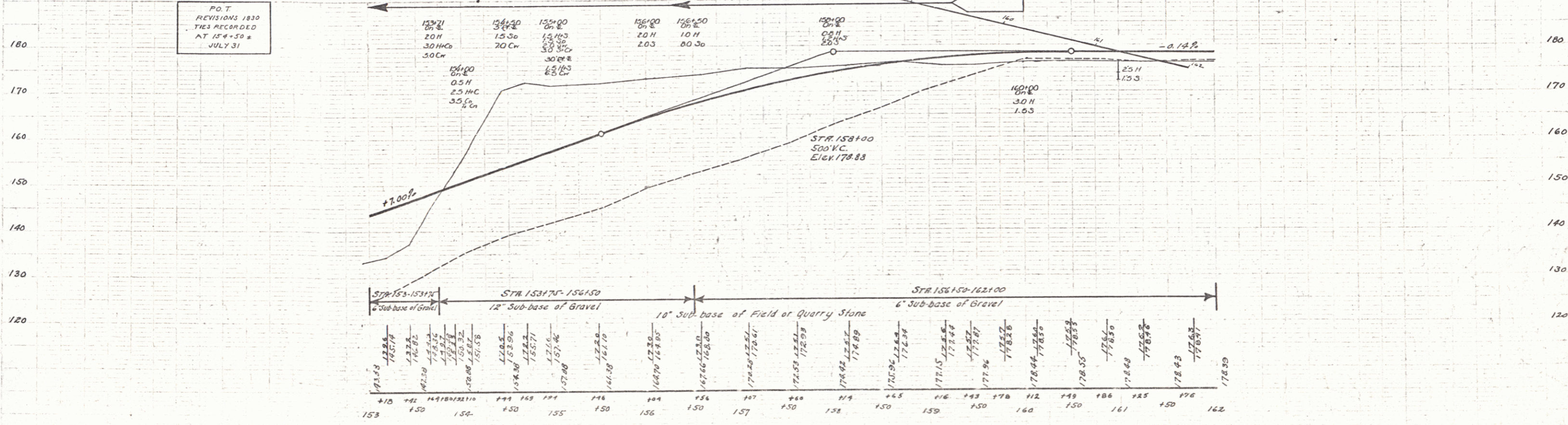


STD. UNDERDRAIN WITH 12" VIT. CLAY PIPE (Modification of Item 65-A)
 Joints in underdrain in seepage area to be left open and wrapped in burlap. Remaining joints to be caulked with cement mortar. Backfill of Gravel, Caulking of Pipe and Wrapping with Burlap to be included in unit price bid per lin. ft. for Standard Underdrain with 12" Vitrified Clay Pipe.



STR 153100-153100 ±
 Attention of the Engineer is called to the Removal of Sand thru this section.

P.O.T. REVISIONS 1930 TIES RECORDED AT 154-30 ± JULY 31



B.M. No. 20 S.E. Corner of schoolhouse steps, left sta. 16 + 70 Elev. 177.39

SERIES F No. 74-C Sec. 2 SHEET 46 OF 97

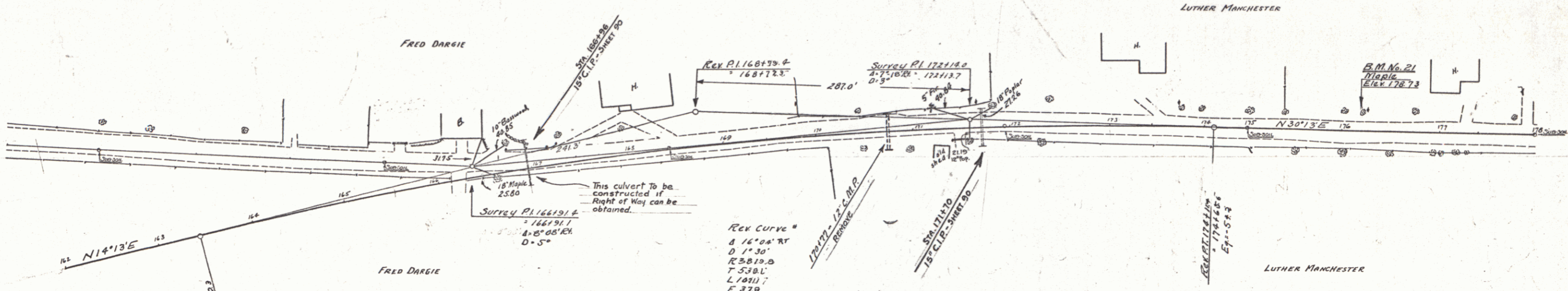
WOOD GUARD RAIL REQUIRED

Station	Left	Right
171+70	24	24
166+96	24	24

NEW CAST IRON PIPE CULVERTS REQUIRED

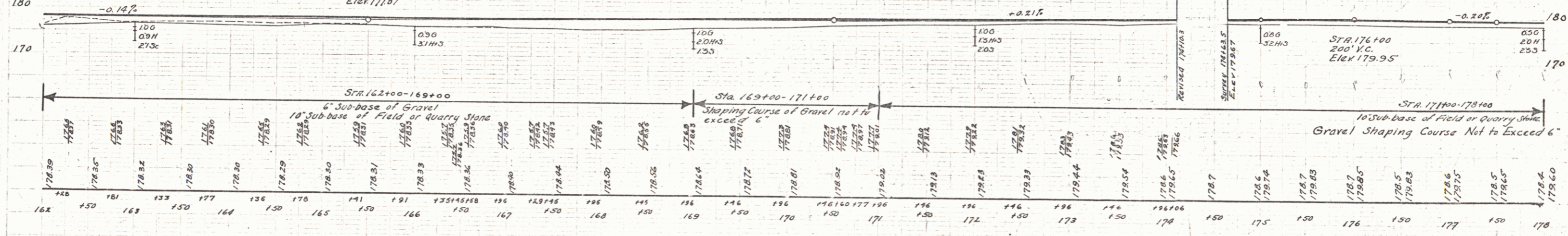
Station	Diam	Length	Cont. C	Steel
171+70	15"	40'	2.3 cy	33'
166+96	15"	40'	2.3 cy	33'

NO.	DATE	BY	TOTAL SHEETS
1	7-6-27		47



Sta. 169+00 - Sta. 167+00
ATTENTION OF THE ENGINEER IS
CALLED TO THE REMOVAL OF SOO

CURVE REVISIONS 1930
 P.I. = 163.43.6
 P.C. = 163.43.6
 P.T. = 174.10.3
 L = 106.667
 E = 37.6



BM 21 30' MAPLE 18' LEFT STA 176+21 ELEV 178.73

WOOD GUARD RAIL REQUIRED

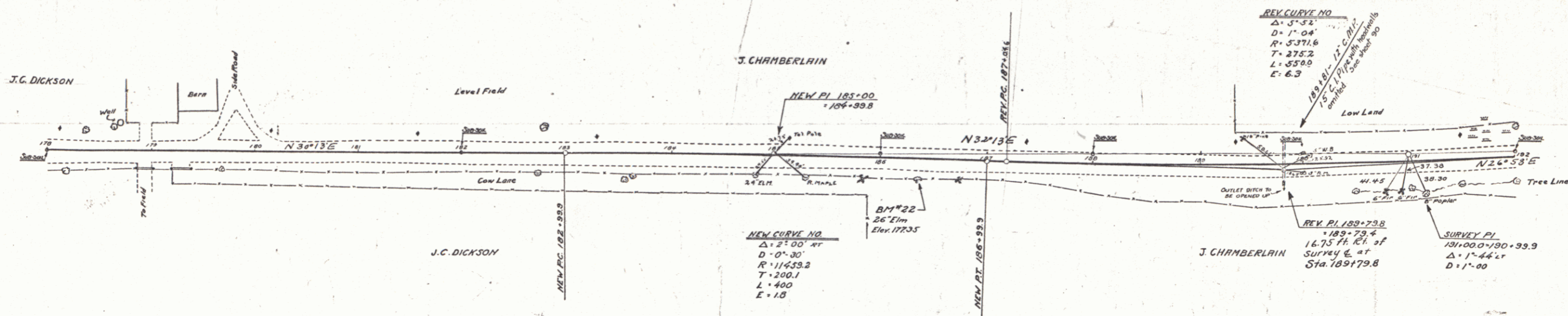
Station	Left	Right
189181	24	24

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Dist	Length
189181	15'	40'

16' headwalls

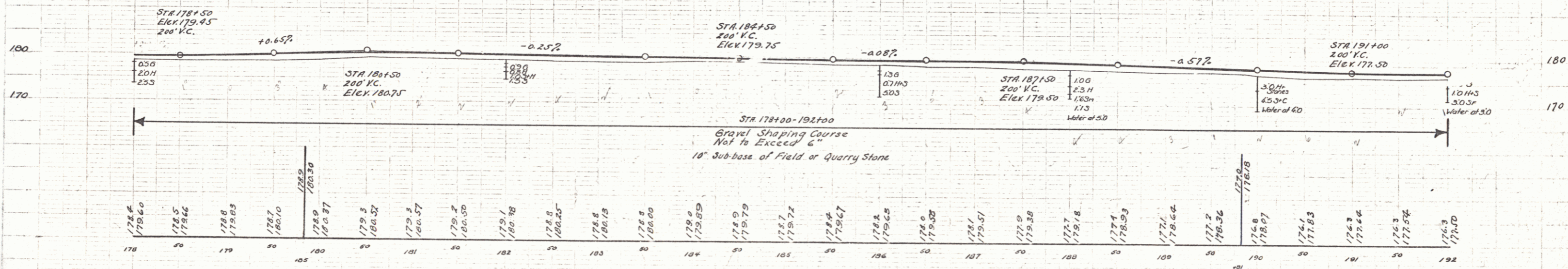
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VI.	74-CX	1938	48	107



NEW CURVE NO
 $\Delta = 25^{\circ}00'$
 $D = 0^{\circ}30'$
 $R = 11633.3$
 $T = 200.1$
 $L = 400$
 $E = 1.0$

NOTE: Sta 1871.50-1861.50
 LEFT AND RIGHT
 Slope = 1 on 2 1/2

CURVE NO
 REVISIONS 1930
 $PC = 1871.71$
 $PT = 1921.42$
 $\Delta = 5^{\circ}15'$
 $D = 1^{\circ}00'$
 $R = 5728.7$
 $T = 242.7$
 $L = 525.0$
 $E = 6.0$
 JULY 31



B.M. No 22 26' ELM 21' FT STA 186+35 Elev 177.33

SERIES F No. 74-C Sec. 2
 SHEET 48 OF 97

Wood Guard Rail Required

Station	Left	Right
195196	24'	24'
205100	24'	24'

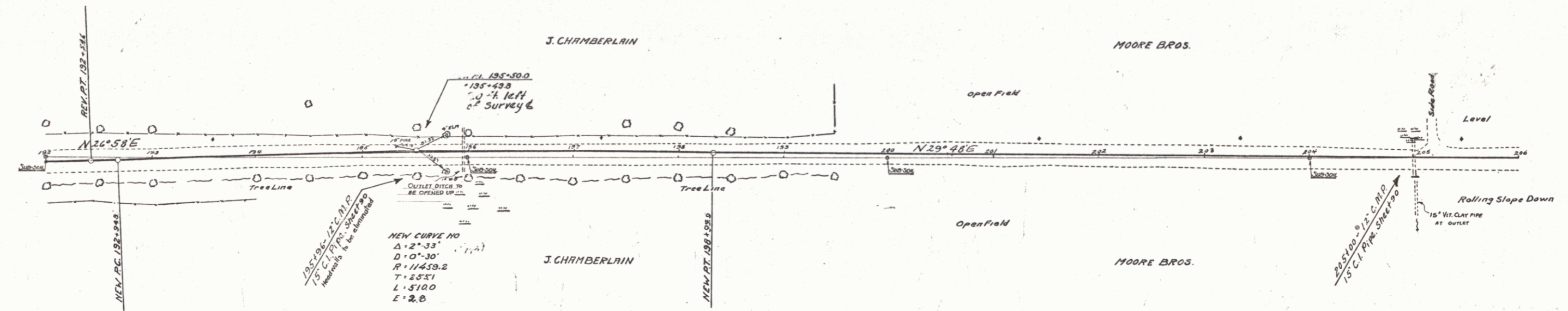
NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam	Length	Conc. C.	Steel
195196	15"	40'	n/a	Headwalls
205100	15"	36'	2.3cy.	33"

NEW VIT. CLAY PIPE REQUIRED

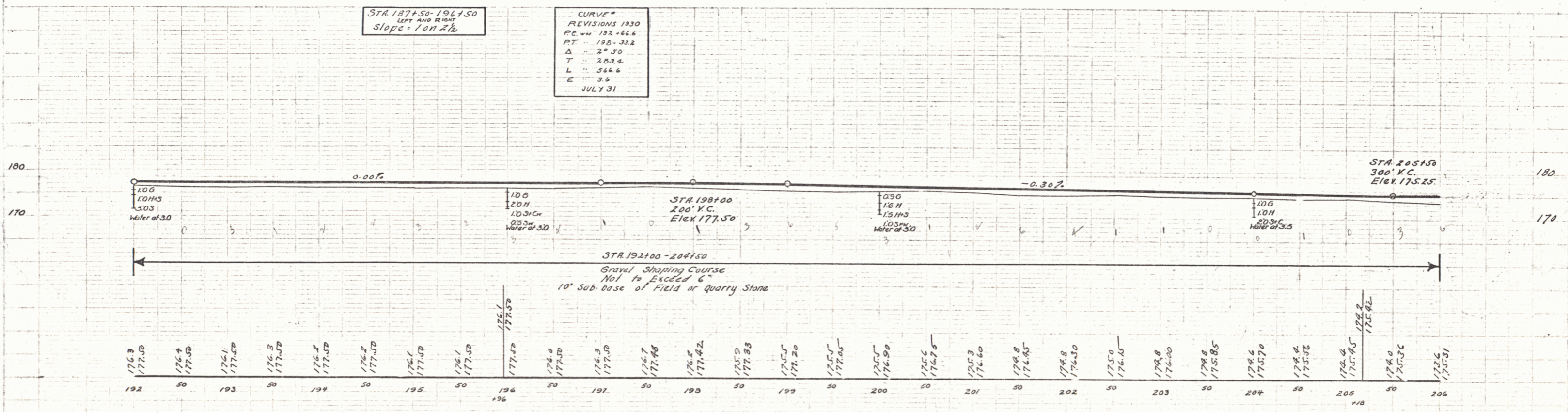
Station	Diam	Length
205100 R/L	15"	40'

FED. ROAD DIST. NO.	STATE	FILED NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT	74-C-2	1931	49	97



STA 1971.50-1961.50
Left and Right
Slope = 1 on 2 1/2

CURVE*
REVISIONS 1230
PC = 192.464
PT = 198.312
Δ = 2° 30'
T = 203.4
L = 244.6
E = 3.6
JULY 31



WOOD GUARD RAIL REQUIRED

Station	Left	Right
206178	24	24
213118	24	-

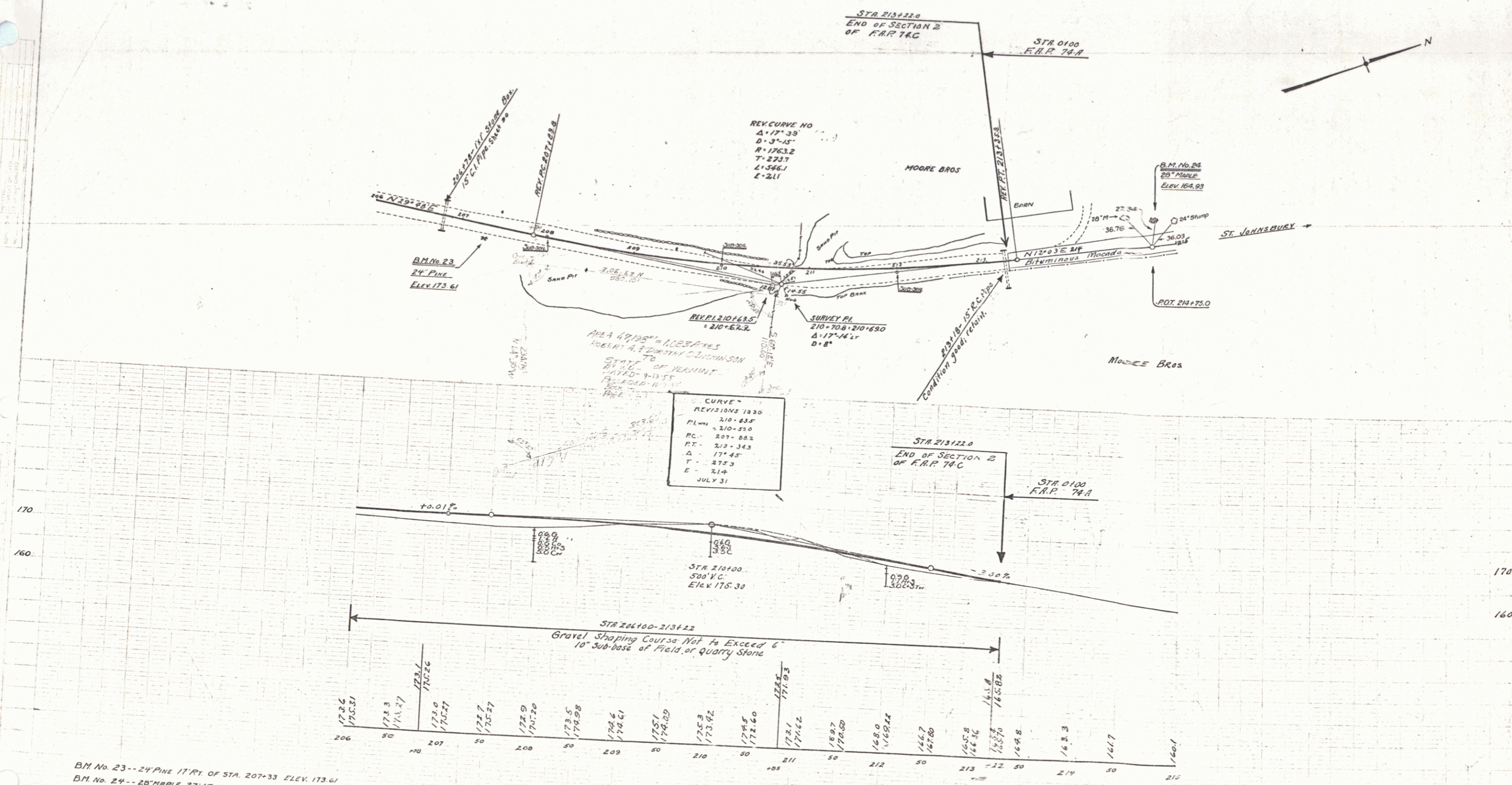
CABLE GUARD RAIL REQUIRED

Station	Left	Right
213118	-	48

NEW CAST IRON PIPE COLLECTORS REQUIRED

Station	Diam	Length	Conc. R.	Conc. C.	Steel
206178	15"	36'	-	2364	33'

DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT	76CE	1930	50	97



BM No. 23-- 24 PINE 17 RT. OF STA. 207+33 ELEV. 173.61
 BM No. 24-- 20 MAPLE 27 LT. OF STA. 214+01 ELEV. 164.93

SERIES F No. 74-C Sec. 2
 SHEET 50 OF 97

WOOD GUARD RAIL REQUIRED

Station	Left	Right
74+67	24'	24'

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam	Length	Cov. Ft.	Steel	D.I.	Br. cast Top
74+67	18"	30'	2.30	104"	1	1

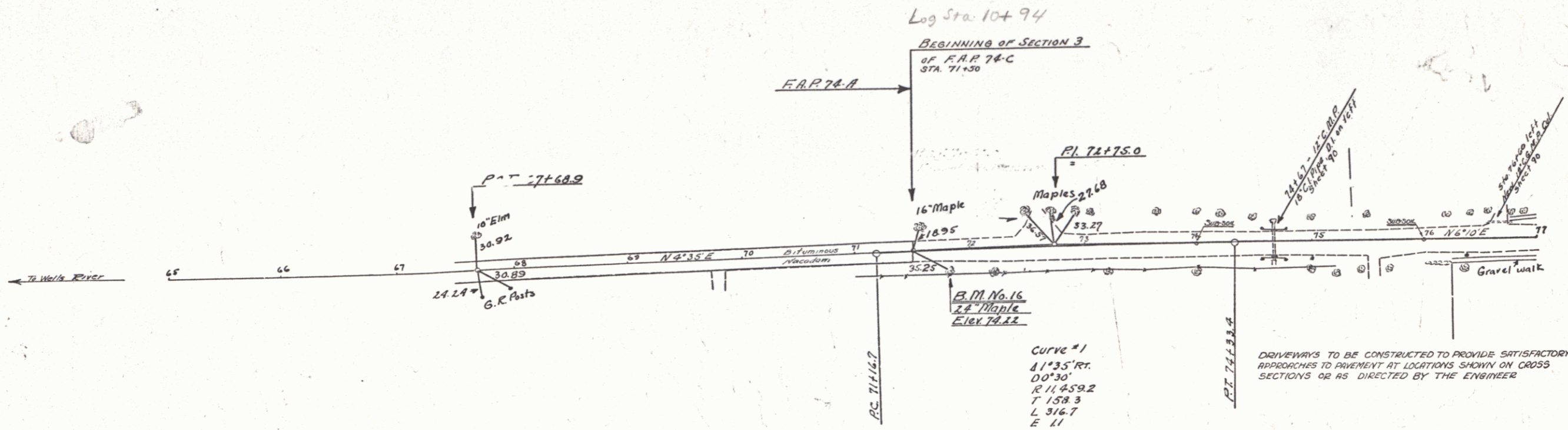
NEW C.G.M. DRIVEWAY PIPES REQUIRED

Station	Side	Diam.	Length	Cement Rubble Masonry
74+60	Lt.	12"	24'	2.3 cu.

FED. ROAD DIST. NO. STATE FEDERAL FISCAL YEAR SHEET NO. AN
 8 VT. 74C 1930 63 97

S.E. Ashmun
1929

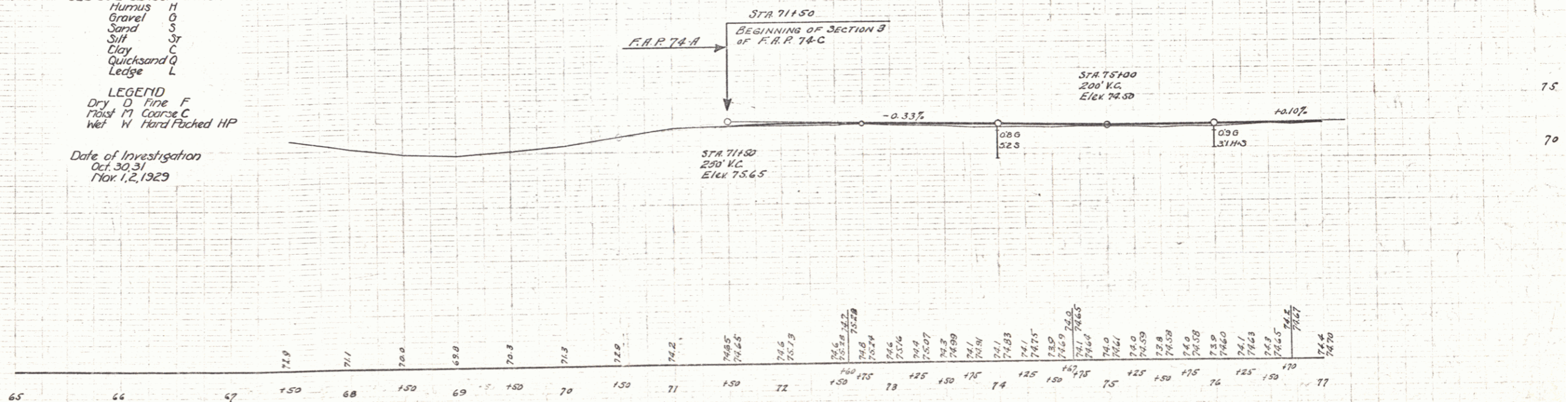
S.E. Ashmun
1929



SUB-SOIL CLASSIFICATION
 Humus H
 Gravel G
 Sand S
 Silt ST
 Clay C
 Quicksand Q
 Ledge L

LEGEND
 Dry D Fine F
 Moist M Coarse C
 Wet W Hard Packed HP

Date of Investigation
 Oct. 30, 31
 Nov. 1, 2, 1929



BM #16 Sta. 71+82 24' Maple 17 ft. right Elev. 74.22

SERIES F No. 74-C
 Section 3
 SHEET 6 OF 97

NEW CAST IRON PIPE CULVERTS REQUIRED					OTHER DROP INLETS REQUIRED			BRICK CATCH BASINS REQUIRED			
Station	Diam.	Length	Concr. A.	Steel DL	Station	Side	Concr. A.	Steel	Grates	Station	Side
78166	12"	32'	3.9cy	198"	77185	RA	1.5cy	99"	1	85115	LA
80106	12"	30'	2.8	198"	84113	RA	1.0	99"	1	86155	LA
81130	12"	36'	2.8	198"	90109	RA	1.4	99"	1	87150	LA
82101	12"	33'	4.1	198"							
83173	12"	44'	1.8	99"							
89115	12"	76'	1.5	99"							

WOOD GUARD RAIL REQUIRED

Station	Left	Right
84124		48'

NEW VIT. CLAY PIPE REQUIRED

Stations	Size	Length
84125-85125	18"	100'
85125-86155	18"	130'
86155-87150	15"	96'
87150-89140	12"	190'

BRIDGE STR. 84124
Size 21'0" x 11'0"

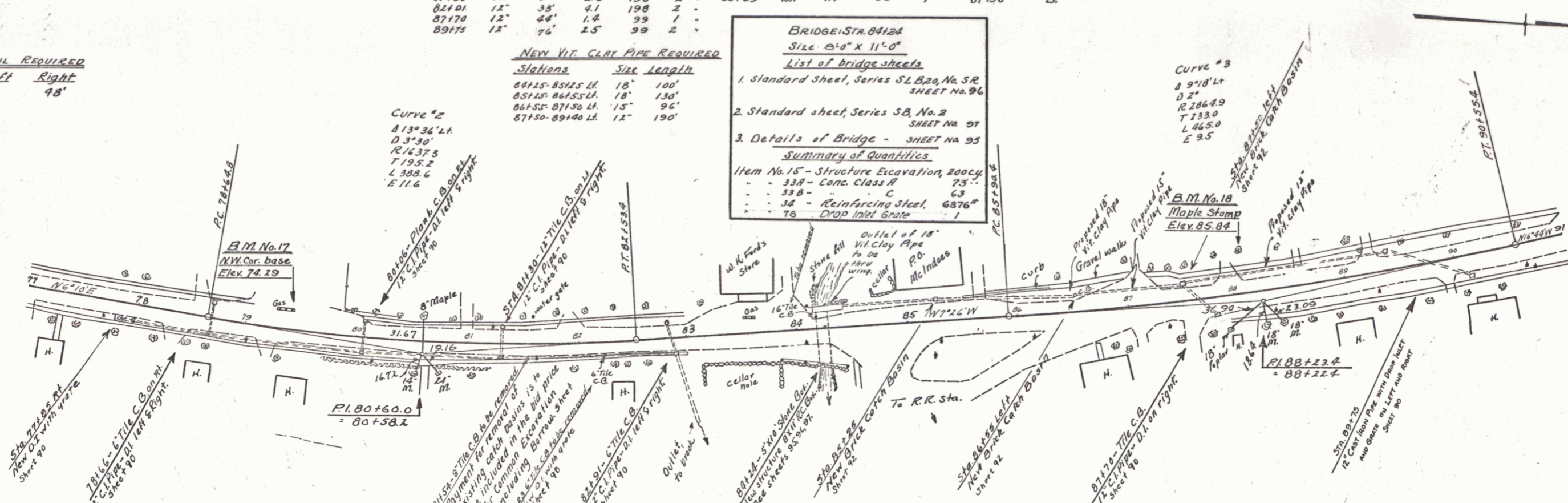
List of Bridge sheets

- Standard sheet, Series SL B20, No. 52, SHEET NO. 96
- Standard sheet, Series SB, No. 2, SHEET NO. 97
- Details of Bridge - SHEET NO. 95

Summary of Quantities

Item No. 15 - Structure Excavation, 200cy
 - 338 - Conc. Class 18 73'-"
 - 38 - " " " " 63
 - 38 - Reinforcing Steel, 6876'
 - 78 - Drop Inlet Grate - 1

S.E. Plimam
1929
1925



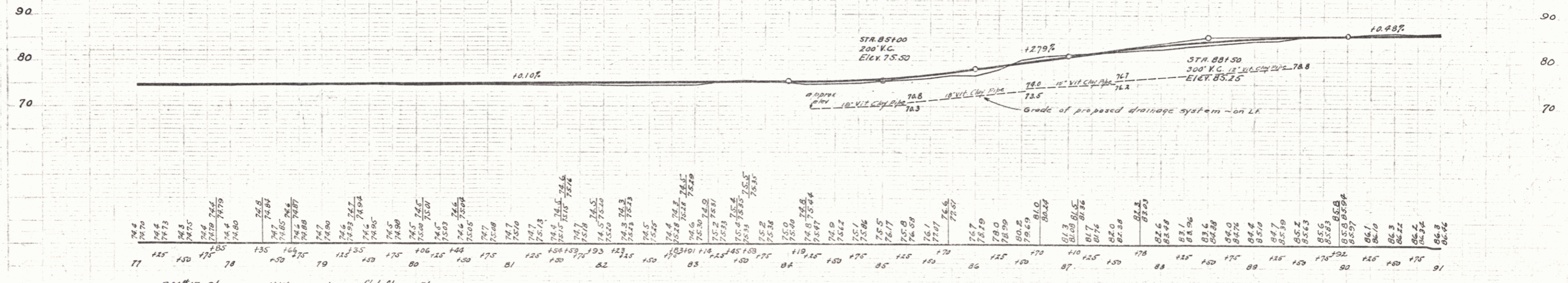
NOTES AS TO DRAINAGE SYSTEM

Drop inlets Sta. 78166, 80106, 81130, 82101, 83173, 89115 are to be constructed so that present drainage system may be utilized as far as possible. The engineer may find it necessary to rely on existing pipes.

Sta. 77100-100100

Locations and elevations of proposed catch basins and drop inlets may be varied to fit field conditions as determined by the Engineer.

S.E. Plimam
1929
1925



B.M. #17 Sta. 79+12 N.W. corner base 19ft left Elev. 74.23
 B.M. #18 Sta. 80+07 35' Maple stump 33ft left Elev. 85.04

REVISIONS APRIL 1930
 STR. 84124 BRIDGE RAIL ADDED ON RIGHT
 AND QUANTITIES REVISED.

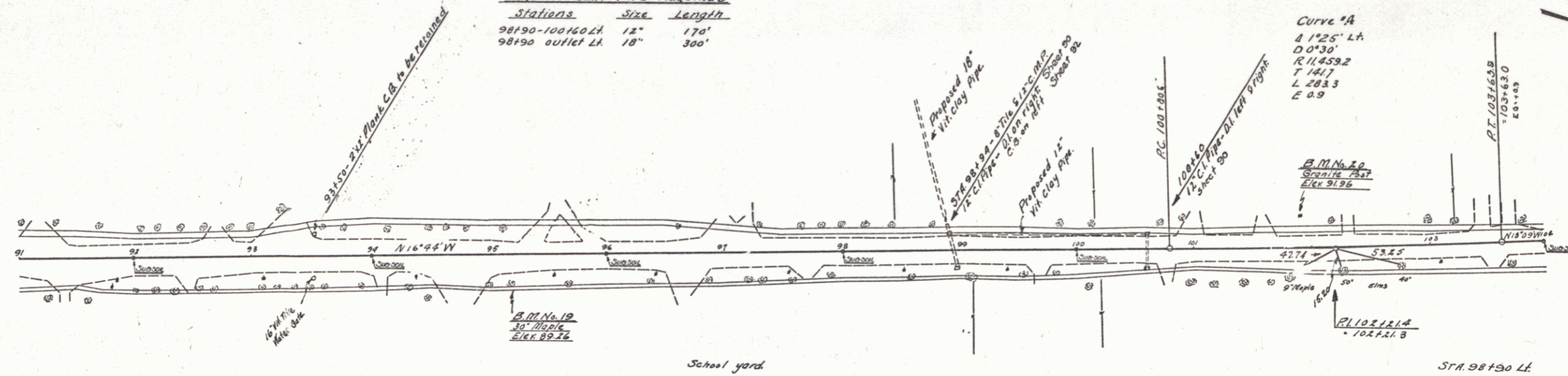
SERIES F. No. 74-C
 Section 3
 SHEET 1930 64 8

NEW CAST IRON PIPE CULVERTS REQUIRED BRICK CATCH BASINS REQUIRED

Station	Diam	Length	Conc. A	Steel D.I.	Station	Side
98194	12"	40'	18 cy	157#	1 grate	98194 Lt
100160	12"	39'	36	152	2 grates	

NEW VIT. CLAY PIPE REQUIRED

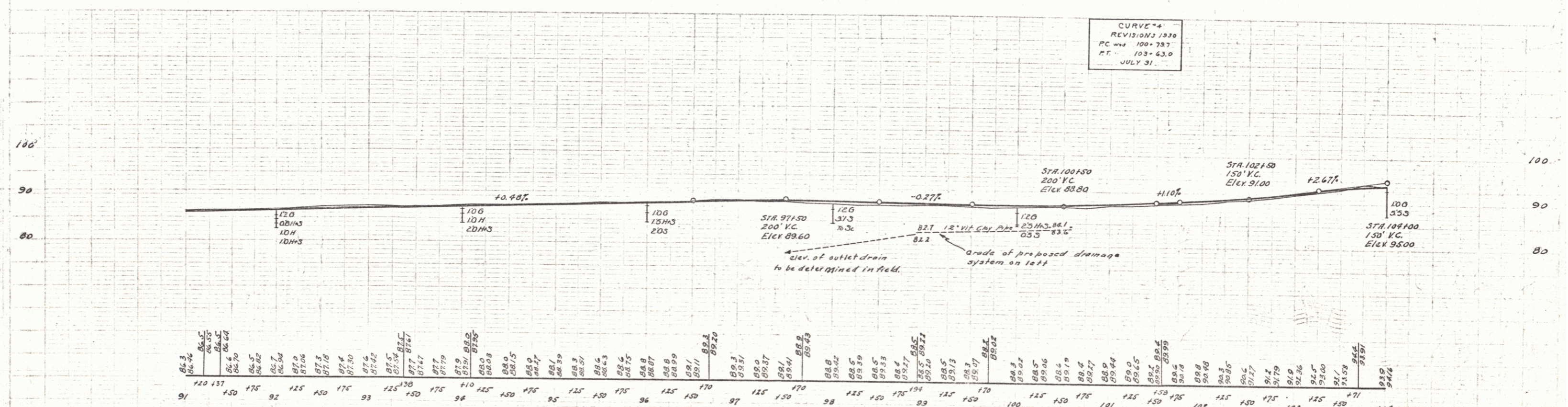
Stations	Size	Length
98190-100160 Lt	12"	170'
98190 outlet Lt	18"	300'



Curve "A"
 4'125' Lt
 D=30'
 R=1439.2'
 T=146.7'
 L=283.3'
 E=0.9'

It is believed that there is an existing tile outlet at this location. If the same is found to be in satisfactory condition, it is to be retained as the outlet for the new culverts. Should this tile be found in an unsatisfactory condition, broken pipe shall be replaced with new Vit. Clay Pipe.

CURVE "A"
 REVISION 1930
 PC = 100+73.7
 PT = 103+63.0
 JULY 31



BM #10 Sta 95+10 30" Maple 22ft. right Elev 89.26
 BM #20 Sta 101+96 8"x8" Granite post 25ft. left Elev 91.86

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
11173-11177	-	104'

NEW CAST IRON PIPE CULVERTS REQUIRED BRICK CATCH BASINS REQUIRED

Station	Diam	Length	Conc. A	Steel P.L.	Station	Side
106100	12"	36'	1.5c.4	157" (16rate)	114100	LH
107150	12"	33'	3.6	3/4"	-	-
111185	12"	42'	1.5	157"	-	-
114190	12"	36'	3.6	256" 2 P. Reinforcing	-	-

NEW VIT CLAY PIPE REQUIRED

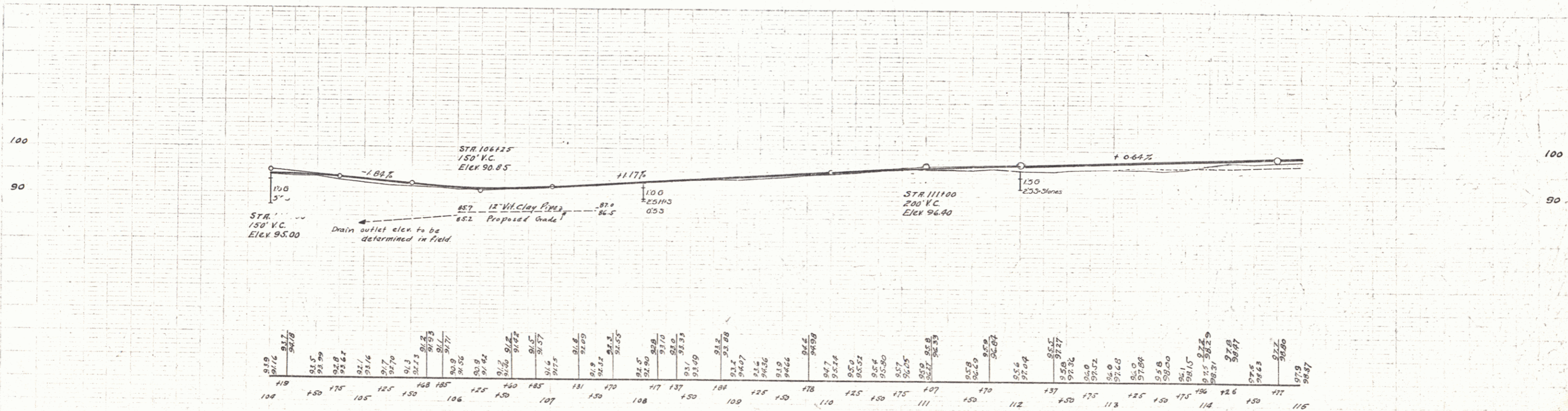
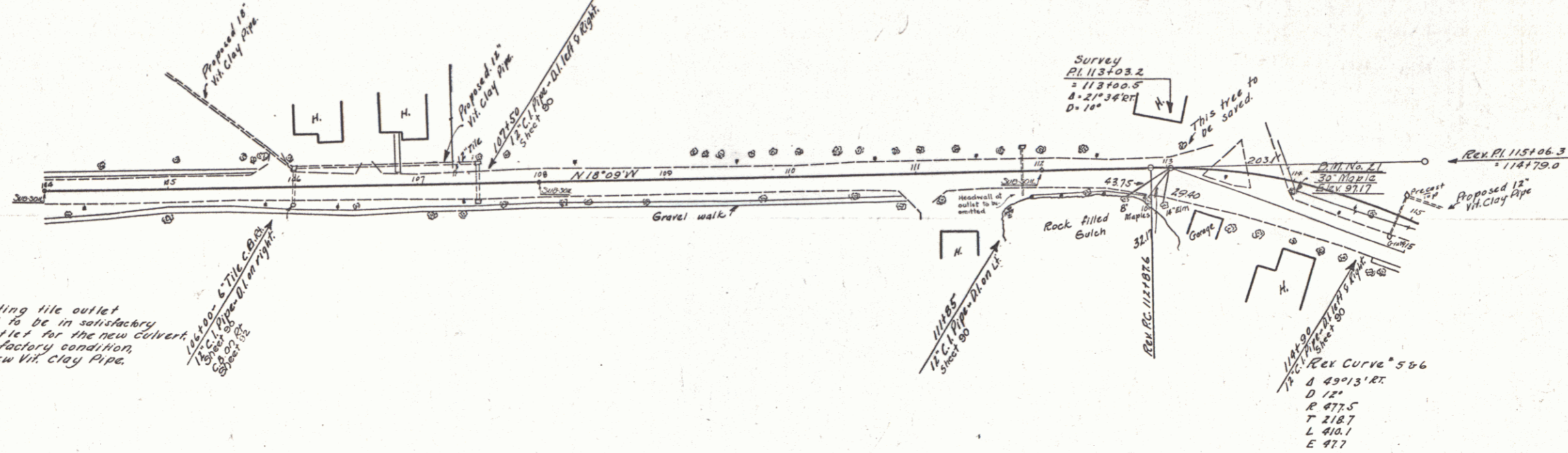
Stations	Diam.	Length
114196-115100	12"	4'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT	746	1930	66	97

NEW VIT CLAY PIPE REQUIRED

Stations	Size	Length
106100-117150 LH	12"	150'
106100 outlet LH	18"	120'

STR 106100 LH
 It is believed that there is an existing tile outlet at this location. If the same is found to be in satisfactory condition, it is to be retained as the outlet for the new Culvert. Should this tile be found in an unsatisfactory condition, broken pipe shall be replaced with new Vit. Clay Pipe.



BM #21 Sta 114100 36' Maple right Elev 97.17

WOOD GUARD RAIL REQUIRED

Station	Left	Right
117140	24'	-

WOOD GUIDE POSTS REQUIRED

Station	Left	Right
116150	1	-

CABLE GUARD RAIL REQUIRED

Station	Left	Right
117141-126125	-	904'
119158-125158	592'	-
130128-131100	-	72'

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam	Length	Conc. P.	Steel O.T.
117140	15"	45'	31cy	184' 1"

NEW VIT. CLAY PIPE REQUIRED

Station	Size	Length
115100-116140 LH	12"	140'
116140-117136 LH	12"	94'

REINFORCED CONCRETE CURB AND GUTTER REQUIRED

Station	Length	Width	Conc. P.	Steel
115175-116150	75'	2'-0"	4.8cy	54#

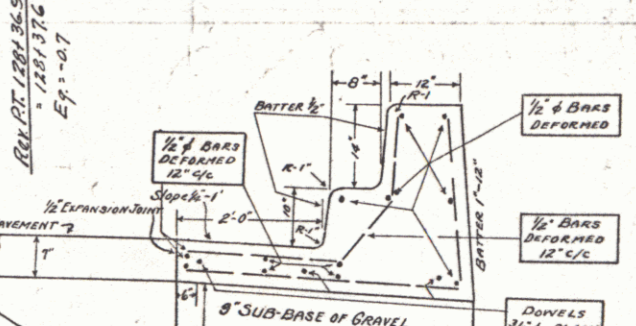
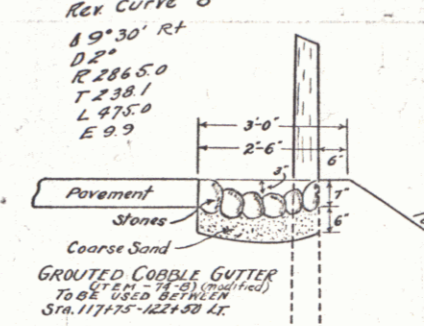
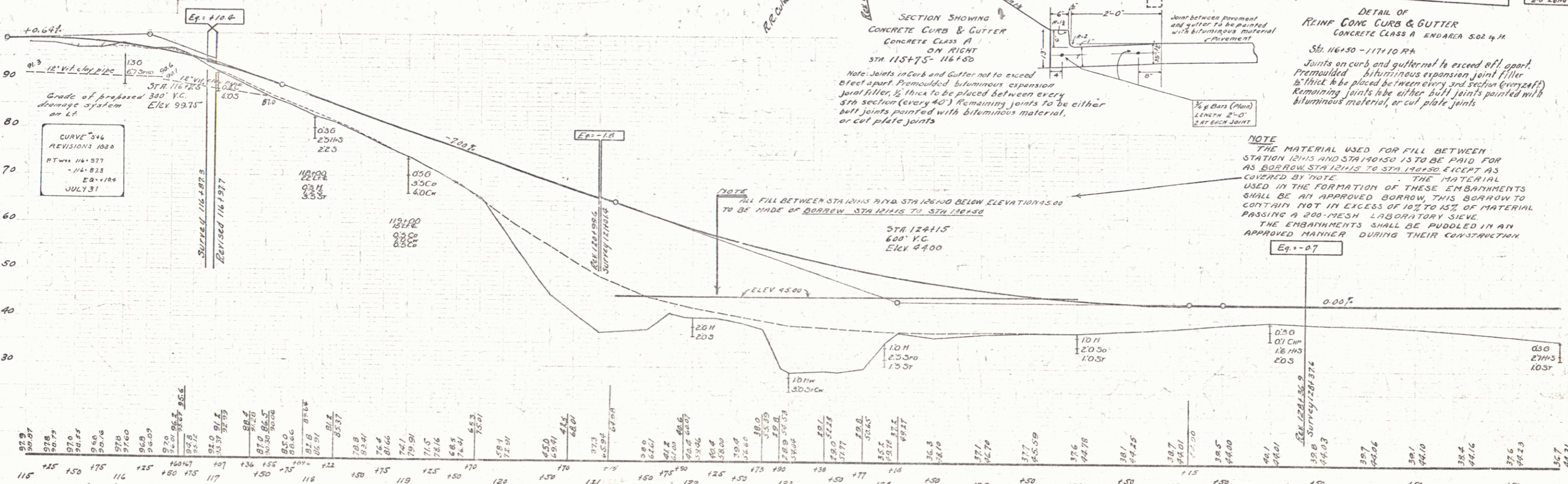
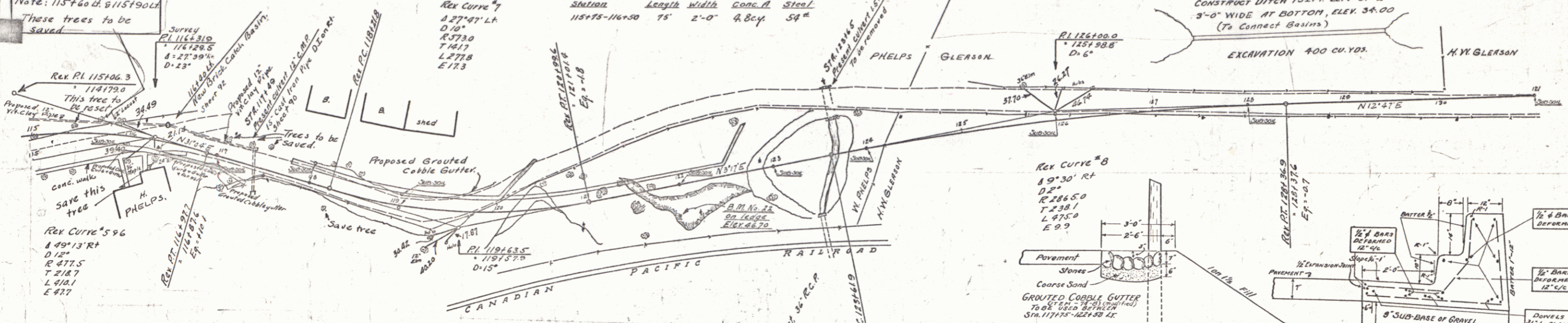
GROUTED COBBLE GUTTER REQUIRED

Station	Width	Length	Area
117110-117116 RH	3'-0"	30'	70 sq. yds.
117115-122150 LH	2'-6"	475'	132
120100 LT Runoff	2'-6"	57'	16
122130 LT Runoff	2'-6"	57'	16

BRICK CATCH BASINS REQUIRED

Station	Side
116140	LH

Note: 115160 & 115190
 These trees to be saved



NOTE
 THE MATERIAL USED FOR FILL BETWEEN STATION 121+15 AND STA 128+30 IS TO BE PAID FOR AS BORROW STATIONS 121+15 TO STA 128+30 EXCEPT AS COVERED BY NOTE. THE MATERIAL USED IN THE FORMATION OF THESE EMBANKMENTS SHALL BE AN APPROVED BORROW. THIS BORROW TO CONTAIN NOT IN EXCESS OF 10% TO 15% OF MATERIAL PASSING A 200-MESH LABORATORY SIEVE. THE EMBANKMENTS SHALL BE PUDDLED IN AN APPROVED MANNER DURING THEIR CONSTRUCTION.

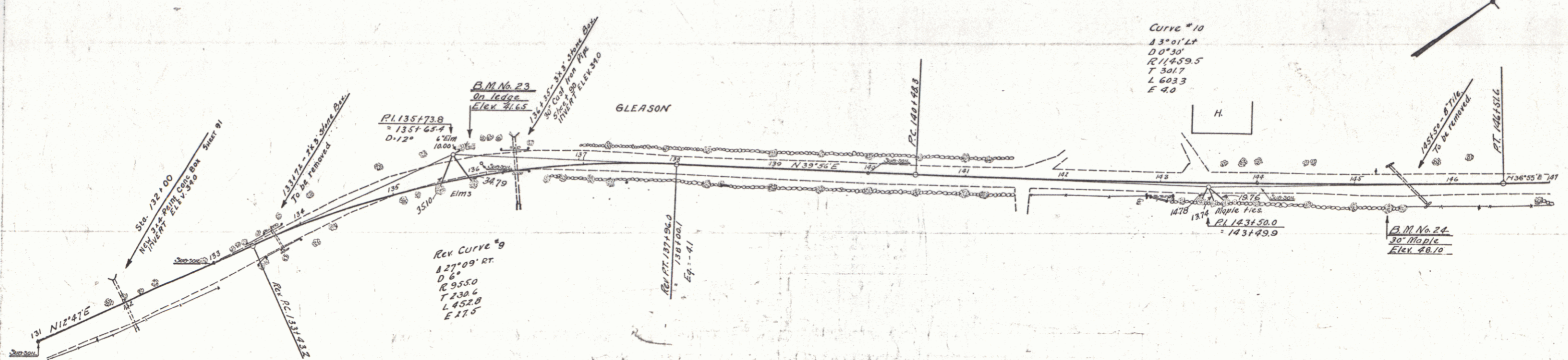
B.M. #2 Sta 121+45 Point on ledge on right Elev 46.70
 Power Co. B.M. #19 Elev 46.97 - Elev 50.84 of Highway Survey Levels.

CABLE GUARD RAIL REQUIRED

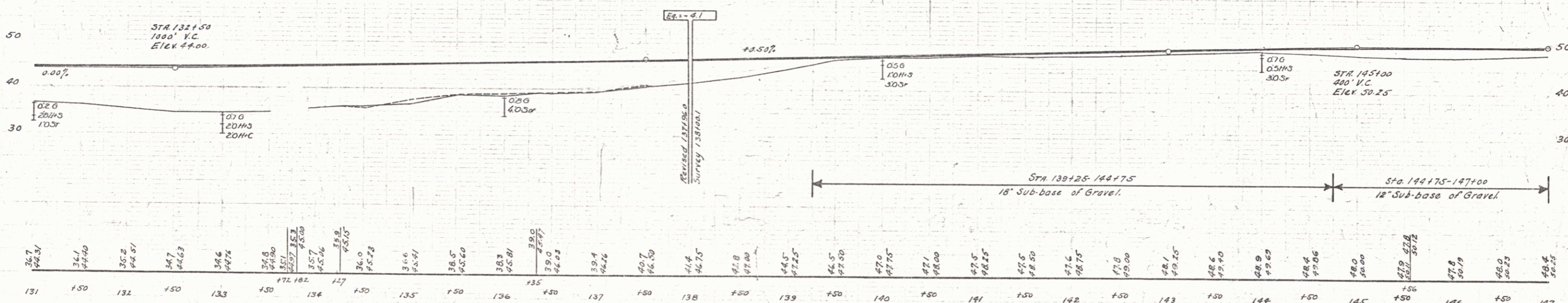
Stations	Left	Right
131+00-137+56	656'	656'

NEW CAST IRON PIPE CULVERTS REQUIRED NEW REINFC CONC BOX CULVERTS REQUIRED

Stations	Size	Length	Conc. A	Steel	Station	Size	Conc. B	Steel
136+35	30"	75'	3.2 cy.	58#	132+00	3x4'	28.1 cy.	189#



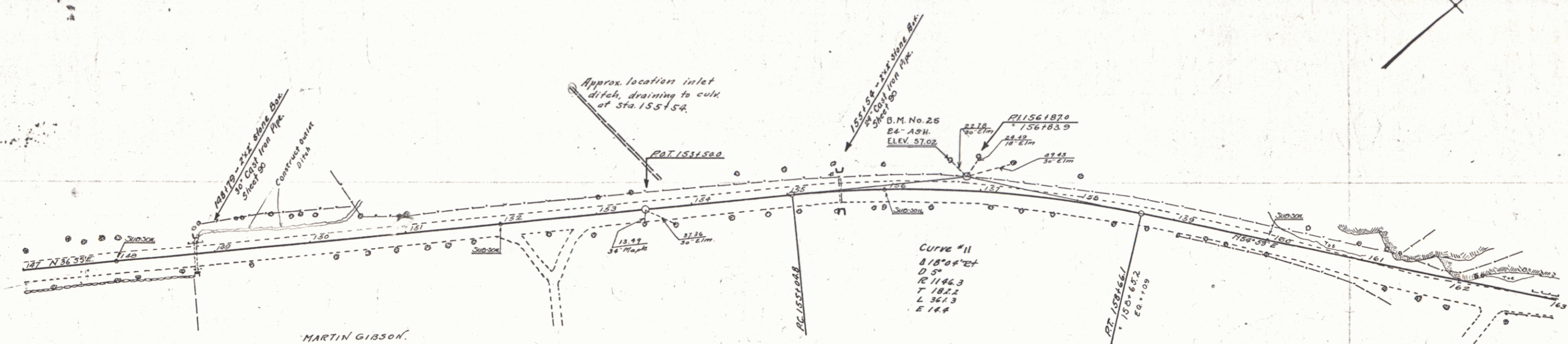
NOTE
 THE MATERIAL USED FOR FILL BETWEEN STA. 12115 AND STA. 140+50 IS TO BE PAID FOR AS BORROW STA. 12115 TO STA. 140+50. EXCEPT AS COVERED BY NOTE (SHEET 67), THE MATERIAL USED IN THE FORMATION OF THESE EMBANKMENTS SHALL BE AN APPROVED BORROW. THIS BORROW TO CONTAIN NOT IN EXCESS OF 10% TO 15% OF MATERIAL PASSING A 200-MESH LABORATORY SIEVE. THE EMBANKMENTS SHALL BE PUDDLED IN AN APPROVED MANNER DURING THEIR CONSTRUCTION.



Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
131	44.31	132	44.40	133	44.57	134	44.63	135	44.74	136	44.81	137	44.86	138	44.91	139	44.95
140	45.00	141	45.05	142	45.10	143	45.15	144	45.20	145	45.25	146	45.30	147	45.35		

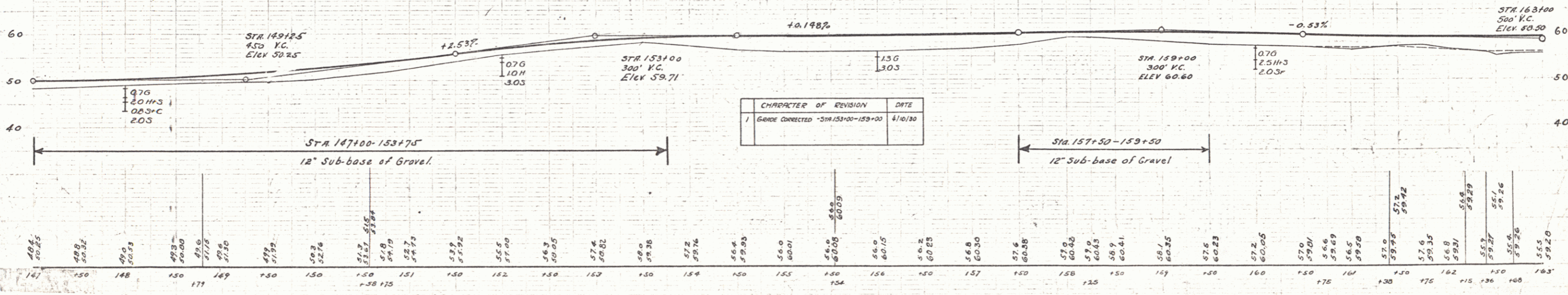
BM #23 Sta. 135+105 Point on ledge 30 ft left Elev. 44.65
 BM #24 Sta. 145+35 30' Maple 21 ft. right Elev. 48.10

WOOD GUARD RAIL REQUIRED			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED				
Station	Left	Right	Station	Left	Right	Station	Diam.	Length	Conc.	Steel
148+79	24'	24'	155+54	48'	48'	148+79	30"	33'	3.2 c.y.	58"
						155+54	24"	36'	2.4	54"



MARTIN GIBSON

CURVE #11
REVISIONS 1230
PT. 158-661
AUG. 1



CHARACTER OF REVISION	DATE
1 GORDE CORRECTED - STA 151+00-159+00	4/16/70

B.M. No. 25 Root on 24' ASP, 32 ft. lf. of Sta. 156+70 ELEV. 57.02

SERIES F A 74 C
SECTION 3
SHEET 97

WOOD GUARD RAIL REQUIRED

Station	Left	Right
163100	24'	24'
166150	24'	24'

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
173128-174172	148'	
173150-174178		128'

NEW CAST IRON PIPE CULVERTS REQUIRED

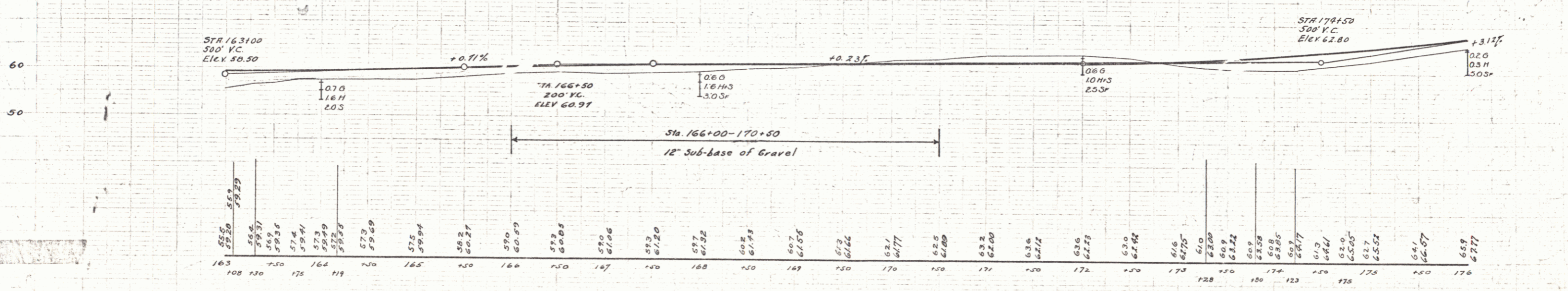
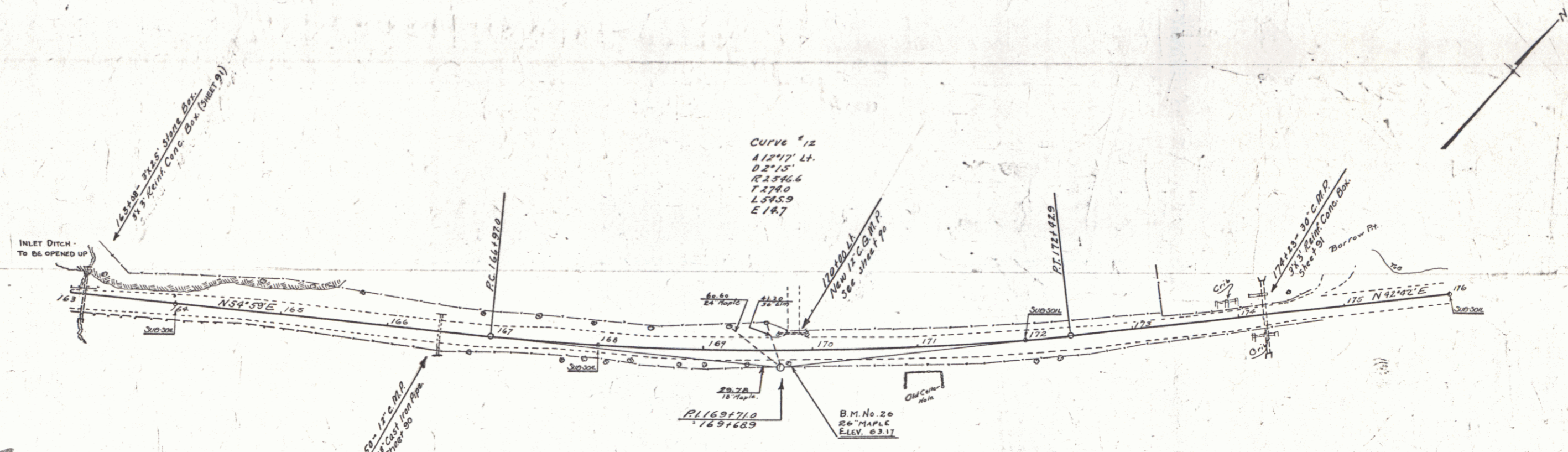
Station	Diam.	Length	Conc. R.	Conc. S.	Shd.
166150	18"	40'	3.0	4.0	33

NEW REINFORCED CONCRETE BOX CULVERTS REQUIRED

Station	Size	Conc. R.	Steel
163100	3'x3'	19.6	1315-12
174123	3'x3'	29.4	1982

NEW C.G.M. DRIVEWAY PIPES REQUIRED

Station	Side	Diam.	Length	Cem. Riv. Masonry
170100	Lt.	12"	24'	23 cy



B.M. No. 26, on 24" Maple 14 ft. E. of Sta. 163178 Elev. 63.17