

SHEET NO. 1 TITLE PAGE

	2	TYPICAL CROSS-SECTION OF IMPROVEMENT	ONE COURSE CEMENT CONCRETE PAVEMENT-TYPE B
	3	DETAILS OF CONSTRUCTION	

4-58 PLAN AND PROFILE SHEETS

29	STANDARD STRUCTURE SHEET - S-20 (PIPE CULVERTS)	
30	" " " " " " " " " " " " " "	S-21 (BOX
31	" " " " " " " " " " " " " "	S-22 (GUARD RAIL, ETC)
32	" " " " " " " " " " " " " "	CULVERT SHEET - S.C.-1 (BOX CULVERTS-SXS AND OVER)
36	" " " " " " " " " " " " " "	BRIDGE SHEET - S.B.-20-35 FEET
34	" " " " " " " " " " " " " "	S.T.S.-20-30 FEET
35	DETAILS OF BALLASTRADE RAIL & SIDEWALK	
36	" " " " " " " " " " " " " "	" " " " " " " " " " " " " "

37-39 SUBSTRUCTURE SHEETS

41	SUBSTRUCTURE SHEET - S-B-2	
42 & 43	" " " " " " " " " " " " " "	S-B-2A & S-B-3 (SKIRM)

44 APPROACH SLAB DETAILS

1. 84702.7-37A.85732

46 LAYOUT
47 STANDARD BRIDGE SHEET-S.L.B.-20-14 FOOT SPAN-C.R.
48 ABUTMENT EXTENSION-S.L.AG.-H=10 FEET
49-97 CROSS SECTIONS

~~From the~~ ~~U.S.~~

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL

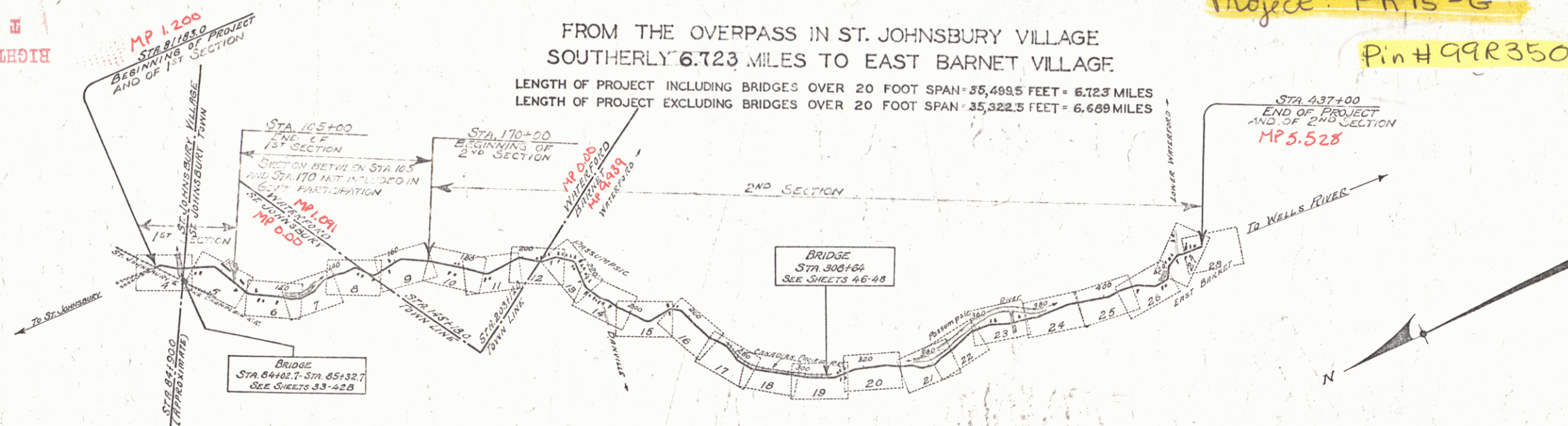
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FLOOD RELIEF PROJECT

ST. JOHNSBURY • WELLS RIVER ROAD

FROM THE OVERPASS IN ST. JOHNSBURY VILLAGE
SOUTHERLY 6.723 MILES TO EAST BARNET VILLAGE.

LENGTH OF PROJECT INCLUDING BRIDGES OVER 20 FOOT SPAN = 35,499.5 FEET = 6.723 MILES
LENGTH OF PROJECT EXCLUDING BRIDGES OVER 20 FOOT SPAN = 35,322.5 FEET = 6.669 MILES



Note: The General Layout of this Project contemplates the use of the Gravel Material obtained as excavation from Sheets 6 & 8 to be used from the beginning of the Project to approximately Sheet 16. This makes it possible to eliminate some base over this section as a paid item of Sub-base of Gravel and obtain an equivalent construction from Common Excavation.

Over the rest of the project the grade is kept 2" or 3" higher than the old road in order that acceptable Excavation or Borrow may be used instead of Sub-base of Gravel.

SCALES

LAYOUT 1" = 2000'

PLAN 1" = 50'

PROFILE Hor. 1" = 50'
Vert. 1" = 10'

CROSS SECTIONS: 1" 5

WFOO 620710Z 7-5

NOTE:
Section between Sta. 105 and Sta. 170
not included in Govt participation.

This Project to be constructed in accordance with Standard Specifications on file with the U.S. Bureau of Public Roads as approved July 7, 1926.
These plans subject to such revisions as may be required by the Bureau of Public Roads or the Chief Engineer.

Attention of the Contractor is called to the following items that are modified from the General Specification

requirements:

1. Drop Inlet Grates
2. Stone Fill
3. Corrug. Galv. Metal Pipes with Paved Inverts.

APPROVED:

APRIL 20, 1929

W. E. August

CHIEF ENGINEER
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD
APRIL 20, 1929

S. B. Bahi
COMMISSIONER OF HIGHWAYS

RECOMMENDED

DISTRICT ENGINEER

BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER
BUREAU OF PUBLIC ROADS

APPROVED

DIRECTOR - BUREAU OF PUBLIC ROADS

SERIES F.R. NO. 15-6 FILED
SHEET 1 OF 97

<u>DROP INLETS REQUIRED (STANDARD)</u>				
<u>Station</u>	<u>Conc. R.</u>	<u>Steel</u>	<u>Grates</u>	<u>Via Filter</u>
84+100 Rk	1.4 cu yds	90"	1	Slack 16'
87+25 Rk	1.4 "	99"	1	12' "

<u>DROP INLETS WITH MODIFIED GRATES</u>				
<u>Station</u>	<u>Conc. R.</u>	<u>Steel</u>	<u>Grates</u>	
90+30 Rk	1.4 cu	99"		
91+20 Rk	1.4 "	99"	1	
93+00 Rk	1.4 "	99"	1	

CONC. STEEL REIN. WAS REQUIRED
 S100-111 1112 CONC. CLASS B steel
 B5T22-20-45-55H 59 cu yds. 114"

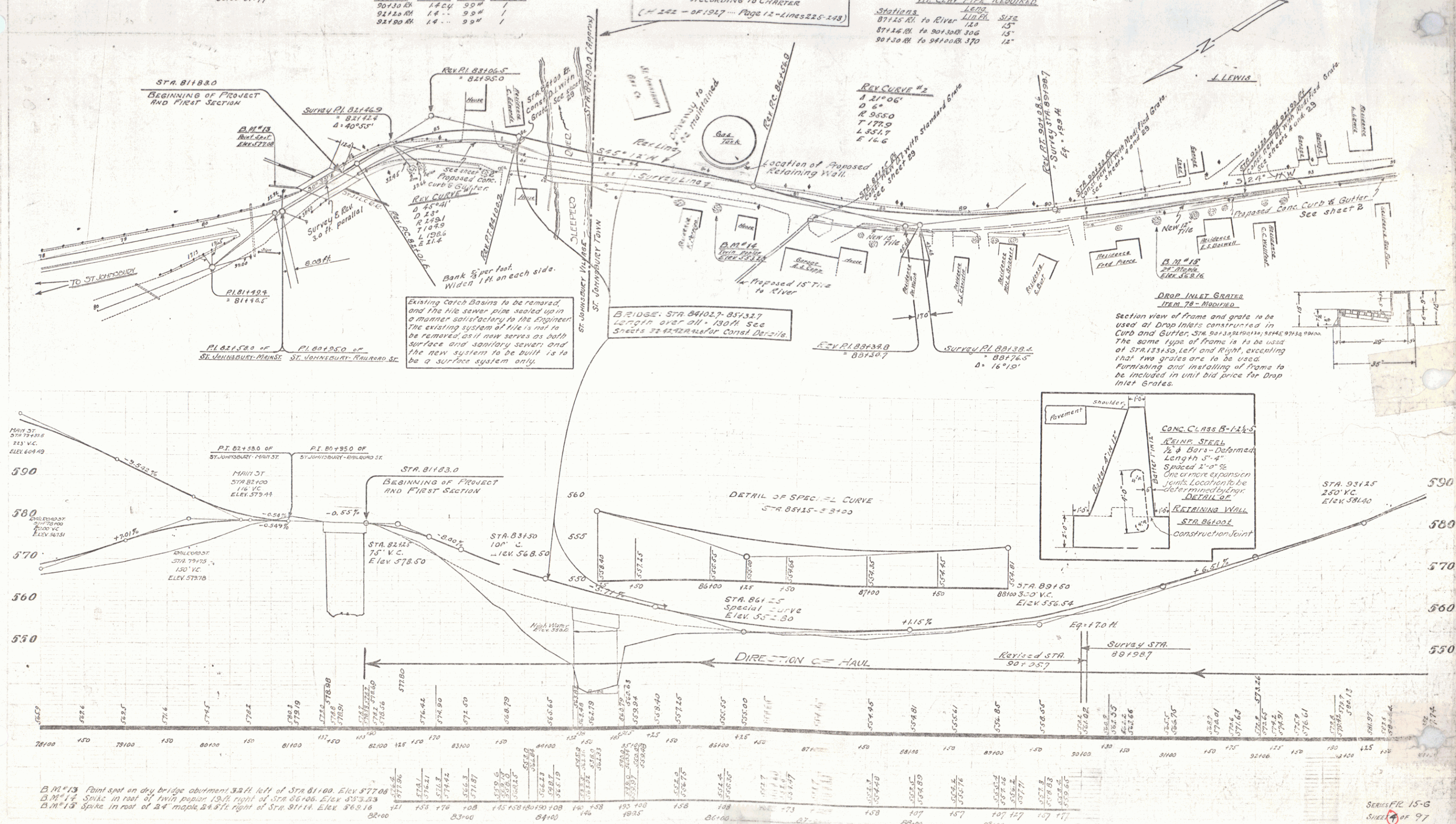
REQUIRED
 APPROXIMATE TOWN & VILLAGES
 ACCORDING TO CHARTER
 (N 262 - OF 1917 - Page 12 - Lines.

CONCRETE CURB & GUTTER REQUIRED

<u>Stations</u>	<u>Side Width</u>	<u>Length</u>	<u>Curb Height</u>	<u>Conc.</u>	<u>Steel</u>
90+15.94 to R/L	2.04	375.84	8 inches	15C4	33#
81+95.04 to R/L	2.0	235.54	8 "	15C4	105#
80+50.00 to R/L	2.0	150.00	8 "	15C4	105#

W/ 4" ASP. FLS REQUIRED

<u>Stations</u>	<u>Length</u>	<u>Size</u>
87+14.81 to R/L	1.0	15"
87+14.81 to 90+130.00 SOG	15	15"
90+130.00 to 90+130.00 S70	12	12"



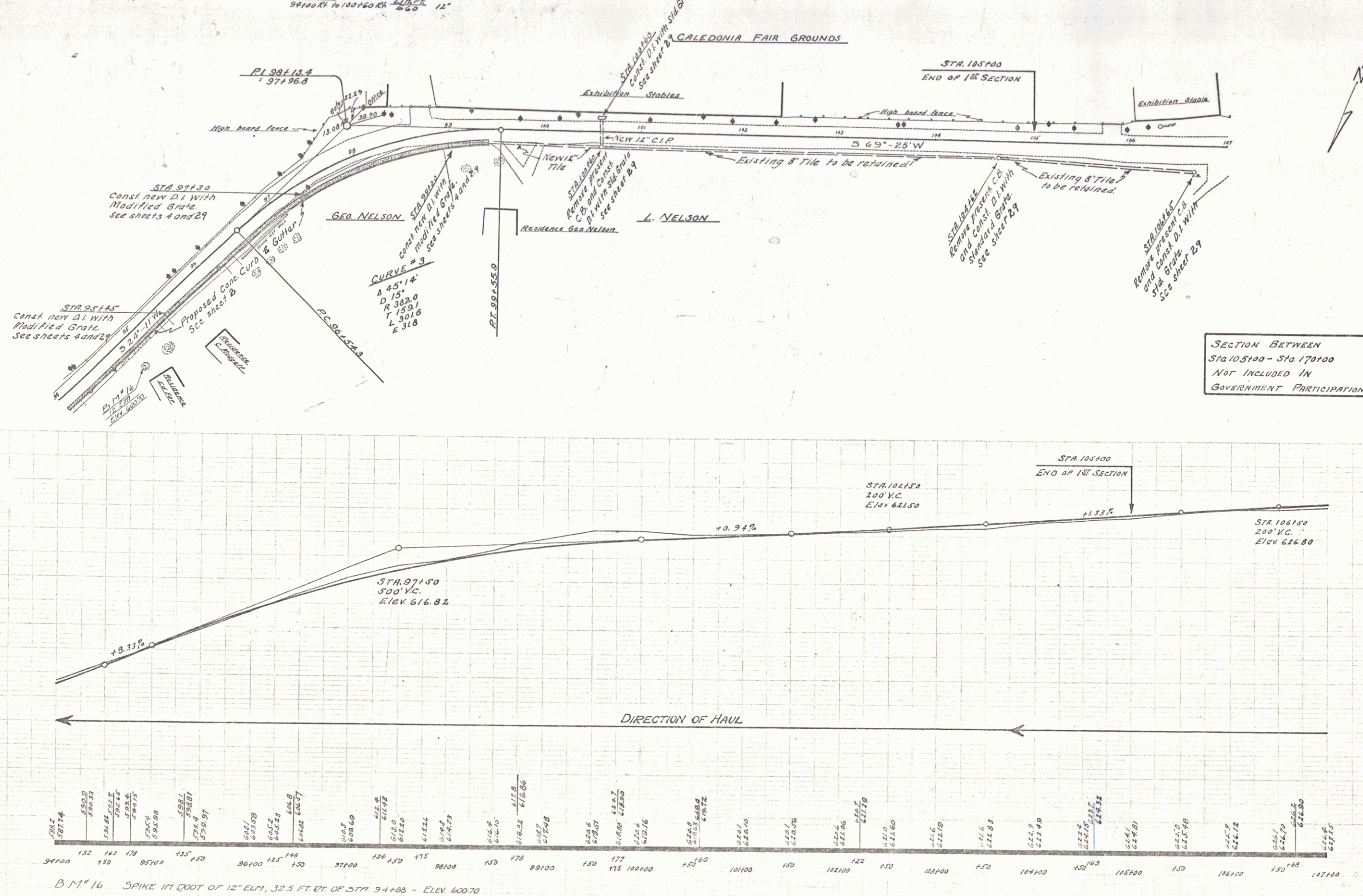
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STATION	REMARKS
97730 RA	1.4 "
99100 RA	1.4 "
<u>NEW VIT. CLAY PIPE REQUIRED</u>	
<u>stations</u>	<u>Long. Size</u>
	12 ft

9140 Rft. 2.0 ft. 540 8 inches

NEW CAST IRON PIPE REQUIRED

<u>Stations</u>	<u>LENG.</u>	<u>SIZE</u>
100+60 Lft. - 100+60 Rft.	30 ft.	12"



SECTION BETWEEN
Sta 105+00 - Sta 170+00
NOT INCLUDED IN
GOVERNMENT PARTICIPATION

WOOD GUARD RAIL REQUIRED

Culvert Station	Left	Right
109190	24	24
118162	-	24
122120	-	24
113108	24	24

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
118125-119120	124	-
121150-123100	150	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diag.	Length	Grade	Culvert Size
108162	18"	42'	0.2	15"
112120	18"	36'	-	3.0
113108	18"	38'	-	3.0

NEW DROP INLETS WITH GRATE REQUIRED

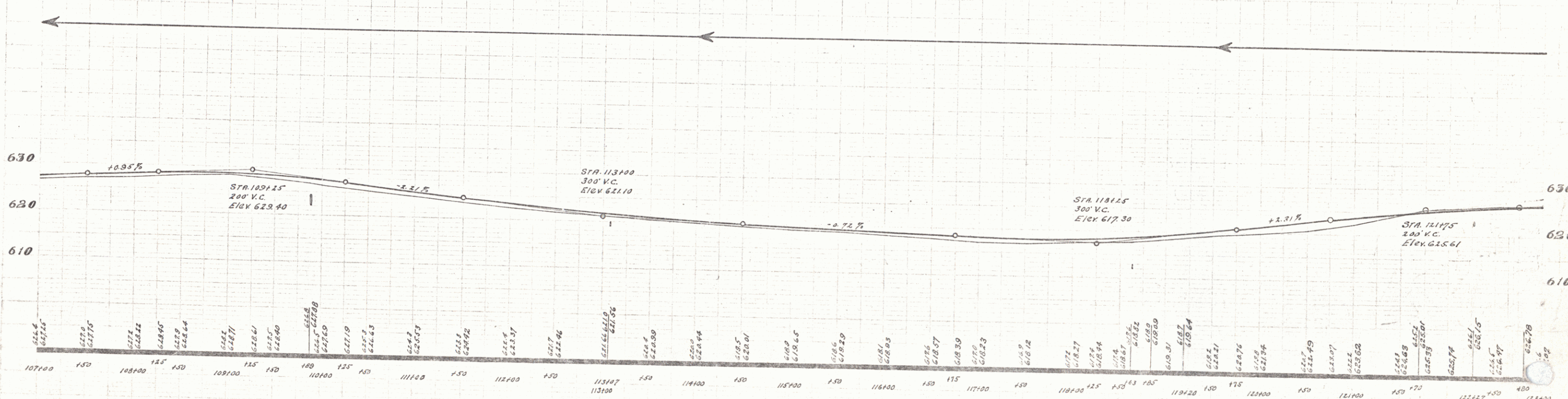
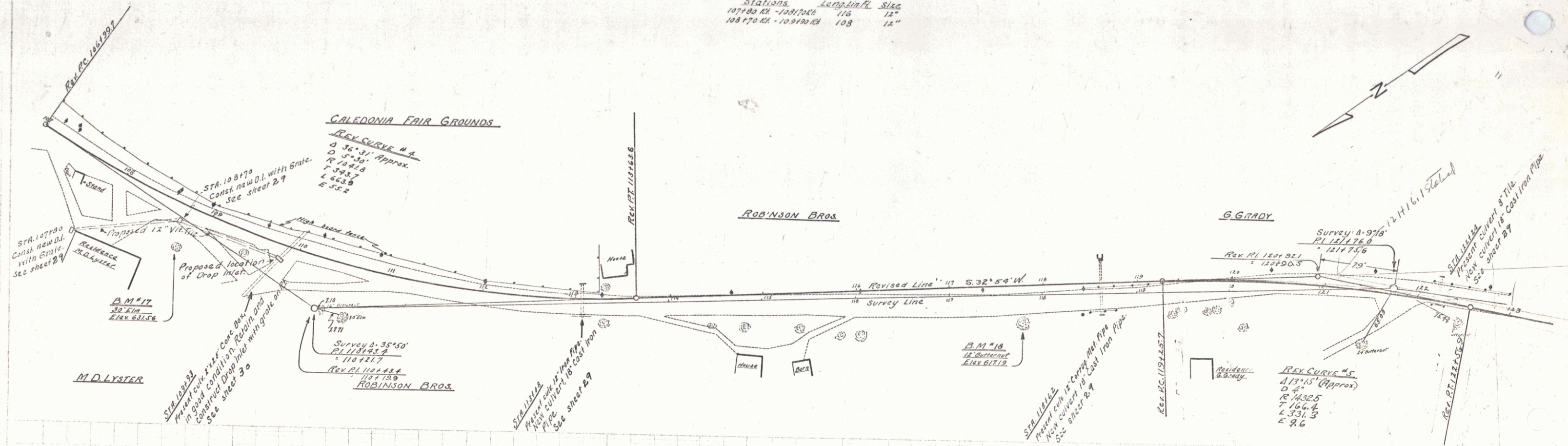
Station	Comp. Class	Size	Grate
107180 RA	14 cu yds.	30"	1
108170 RA	14 -	30"	1

CULVERT REPAIRS REQUIRED

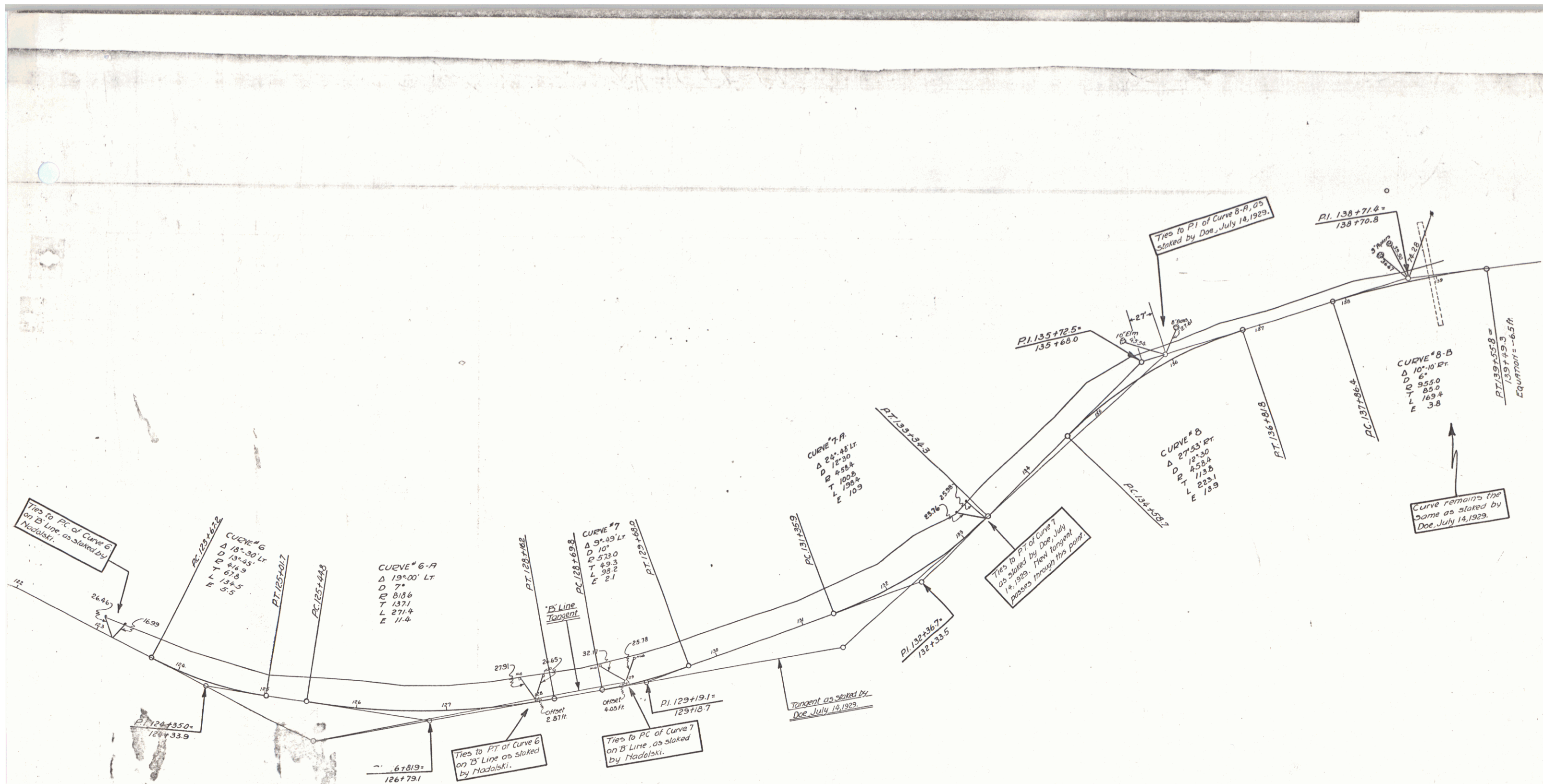
Station	Comp. Class	Size	Grate
109190	0.8	31	1

NEW VIT. TILE PIPE REQUIRED

Stations	Length	Size
107180 RA - 108170 RA	115'	12"
108170 RA - 109190 RA	108'	12"



B.M. 17 Spike in root of 30' Elm 40 ft. right of Sta. 100+00. Elev. 631.56
 B.M. 18 Spike in root of 18' Butternut 24 ft. right of Sta. 117+00. Elev. 617.19



ST. JOHNSBURY 15-G
 POWER HOUSE HILL
 LINE AS REVISED AUG. 1, 1929
 ALL PREVIOUS EDITIONS VOID



15 G

WOOD GUARD RAIL REQUIRED

Culvert Station	Left	Right
145161	24	24

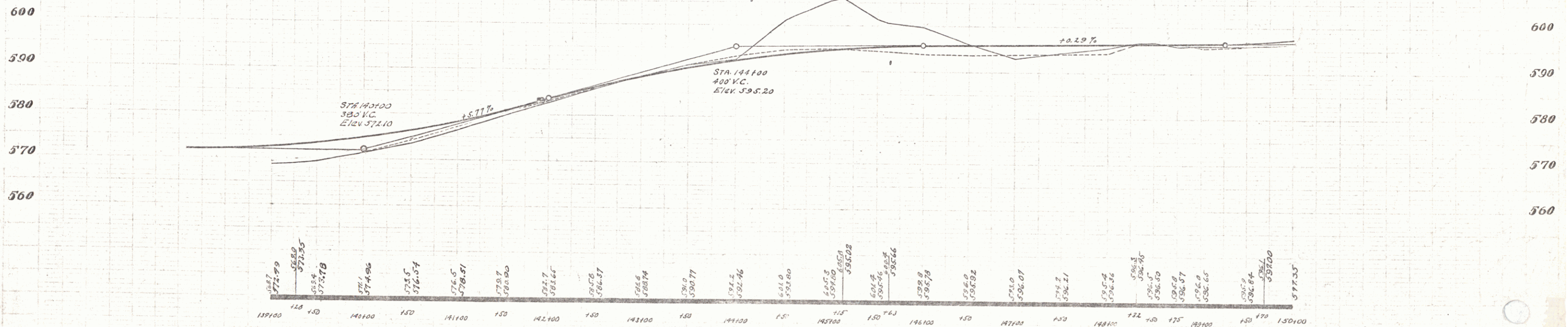
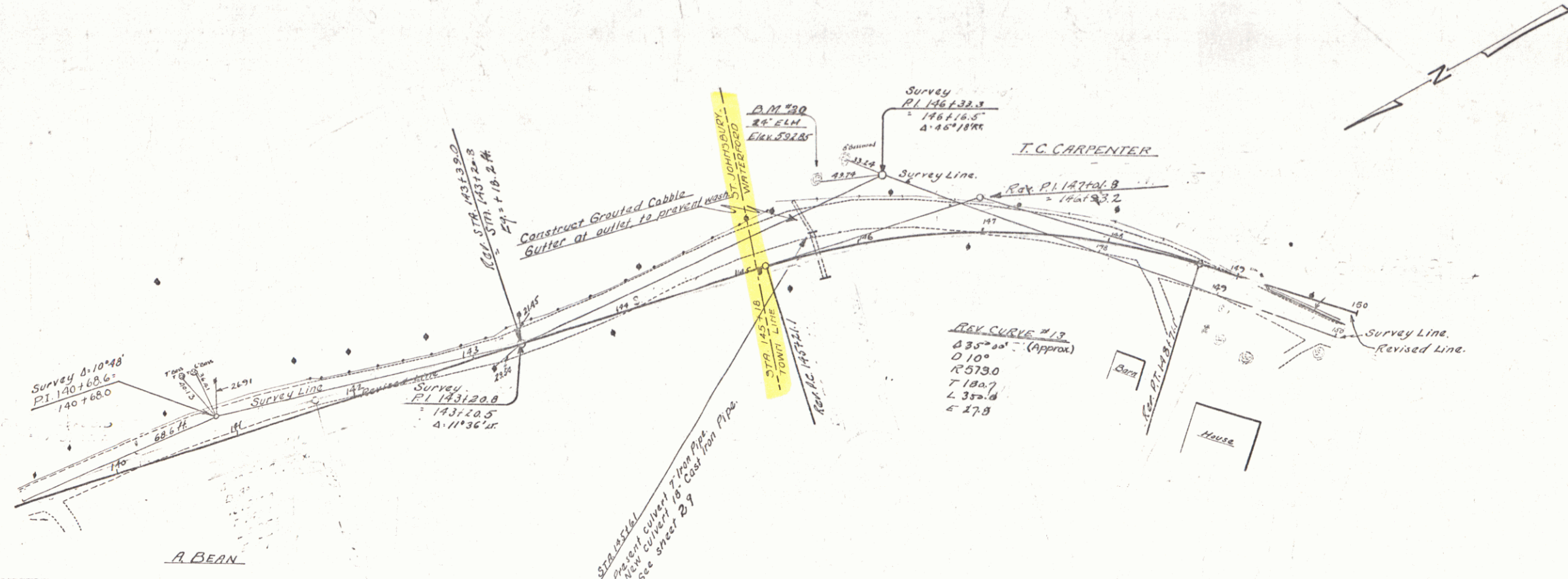
CHALK GUARD RAIL REQUIRED

Stations	Left	Right
139100-139102	-	-
139100-139177	77	-
149100-150100	100	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam.	Length	Concrete	Steel
145161	18"	36	5.0	3.3

15.6 1929 8 97



B.M. 20 Spike in root of 24" Elm 30 ft left of Sta. 144+70. Elev. 592.85'

WOOD GUARD RAIL REQUIRED

Culvert Station	Left	Right
150+07	24	24
157+59	24	24
162+89	24	24

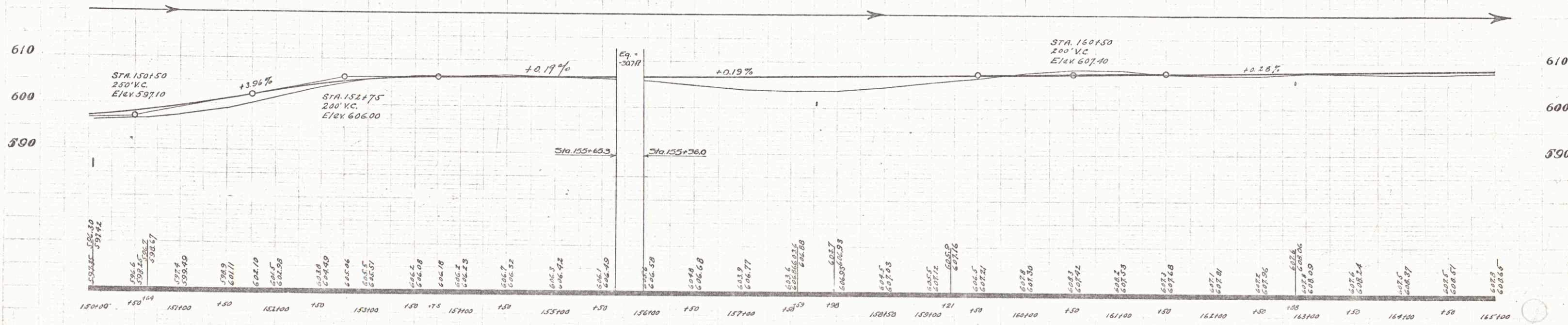
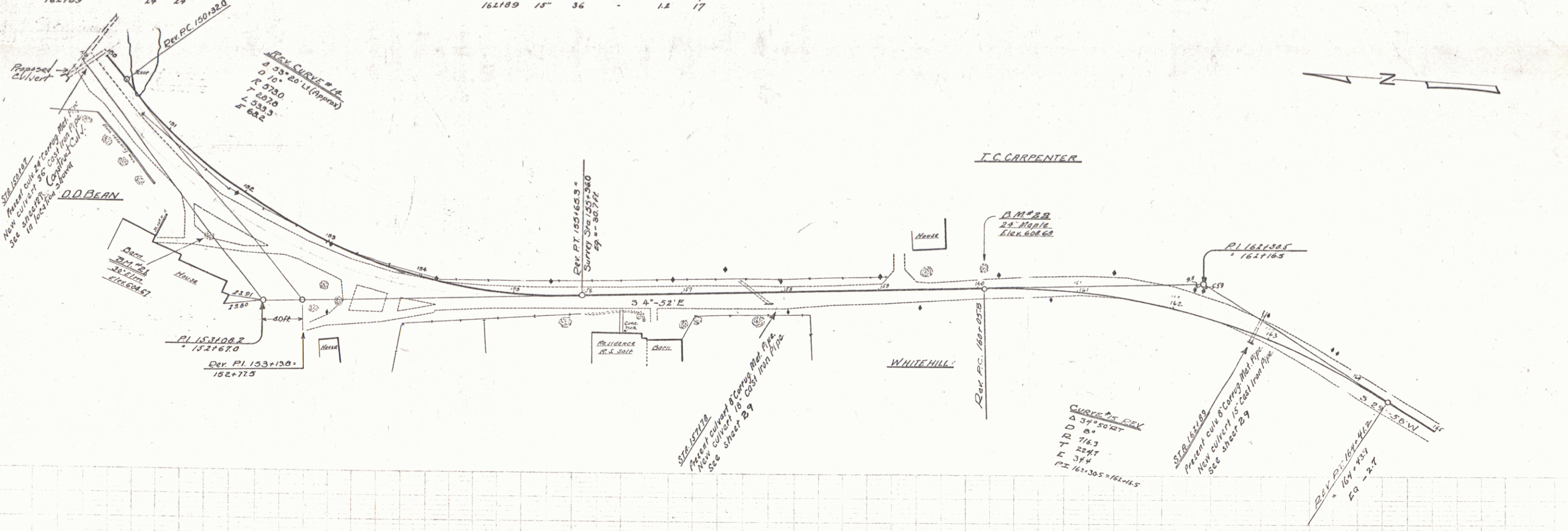
CABLE GUARD RAIL REQUIRED

Stations	Left	Right
150+00 - 151+00	60	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	DIAM.	LEN.	CONC. A	CONC. B	STEEL
150+07	36"	33'	27	-	126
157+59	18"	45'	-	15	17
162+89	15"	36'	-	12	17

15-G 1929 .9 97



B.M. 21 Spike in rest of 30' Elm. 30 ft. right of Sta. 152+16. Elev. 604.67
 B.M. 22 Spike in rest of 34' Maple. 19 ft. left of Sta. 160+07. Elev. 608.68

WOOD GUARD RAIL REQUIRED

Culvert Station	Left	Right
171126	24	24
175178	24	24

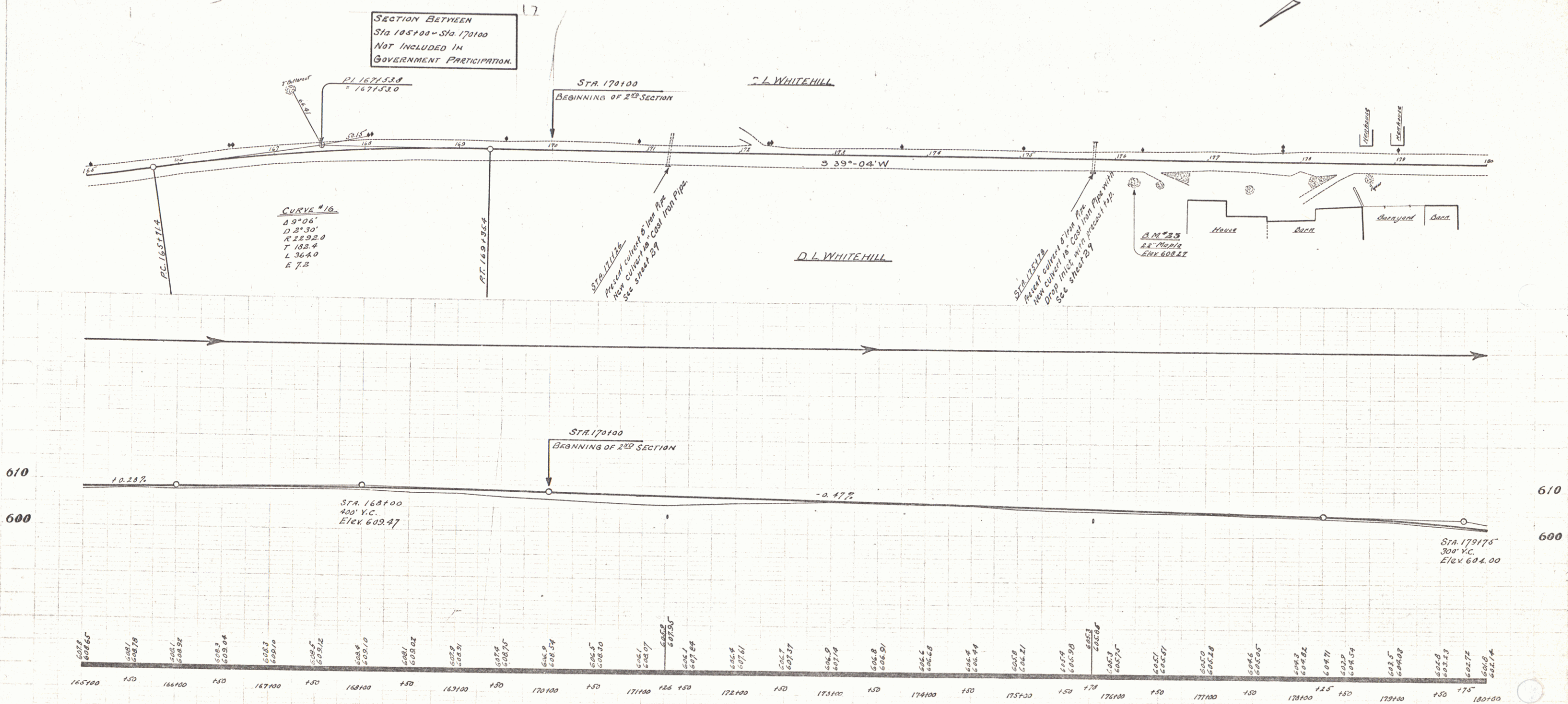
NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam.	Length	Cost	Notes
171126	18"	36	15	17
175178	18"	36	15	17

15-G 1929 10 97

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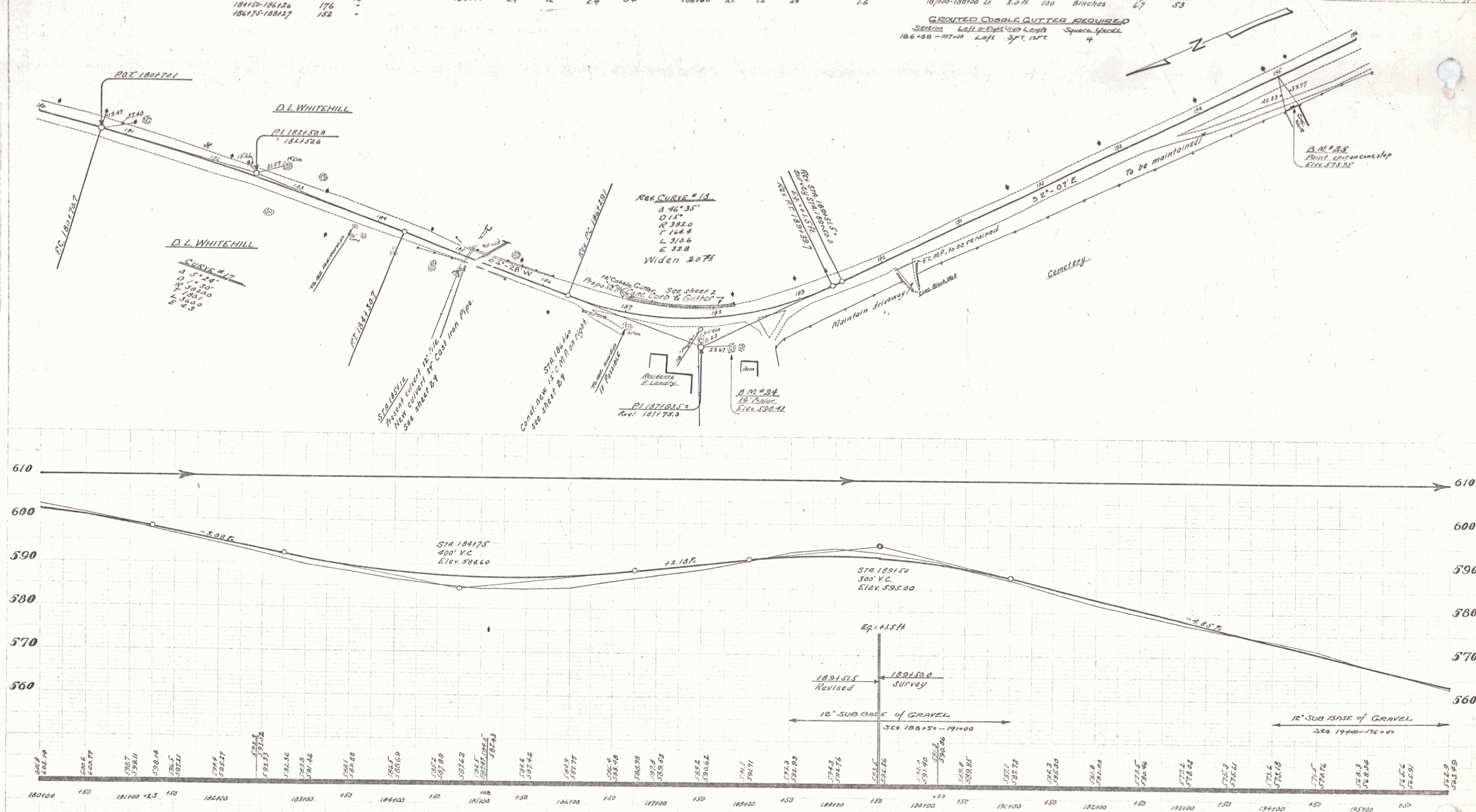


B.M. #33 Spike in root of 32" Maple, 19 ft right of Sta 176+25. Elev 608.27

SERIES FR 15-G
SHEET 10 OF 97

GRADED COBBLE GUTTER REQUIRED

<u>Station</u>	<u>Left or Right</u>	<u>Width</u>	<u>Length</u>	<u>Square Yards</u>
186+88 - 187+00	Left	3 FT.	12 FT.	4



B.M.#24 Spike in root of 16" Poplar, 56 ft. right of Sta 180+14. Elev 598.43
B.M.#25 Paint spot on concrete step of vault, 38 ft. right of Sta 195+00. Elev 573.95

SERIES F, R15-6
SHEET 11 OF 97

<u>NEW CAST IRON PIPE CULVERTS REQUIRED</u>				
<u>Station</u>	<u>Diam.</u>	<u>Length</u> <u>Lin. Ft.</u>	<u>Conc. H.</u> <u>cu. yds.</u>	<u>Steel</u> <u>lbs.</u>
221+00	15"	28	3.0	314
217+44	18"	45	-	-

<u>NEW CATCH BASIN REQUIRED</u>		
<u>Station</u>	<u>Side</u>	
	<u>Left</u>	<u>Right</u>
217+55		R.

NEW VITRIFIED CLAY PIPE REQUIRED		
Stations	Dia	Length Lin. Ft.
211+65-217+44	12"	536
219+50-221+00	12"	150

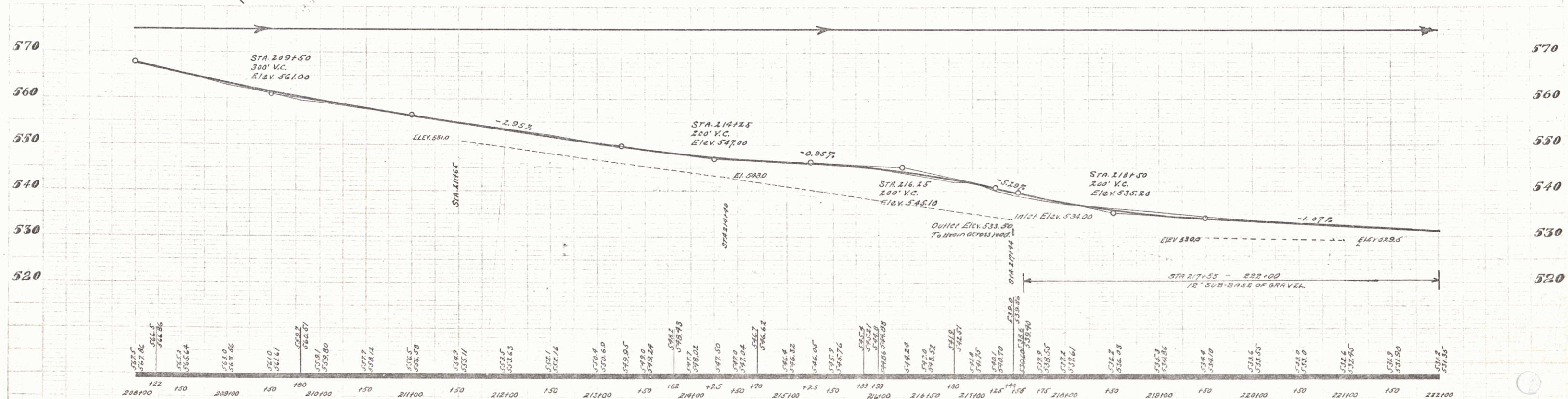
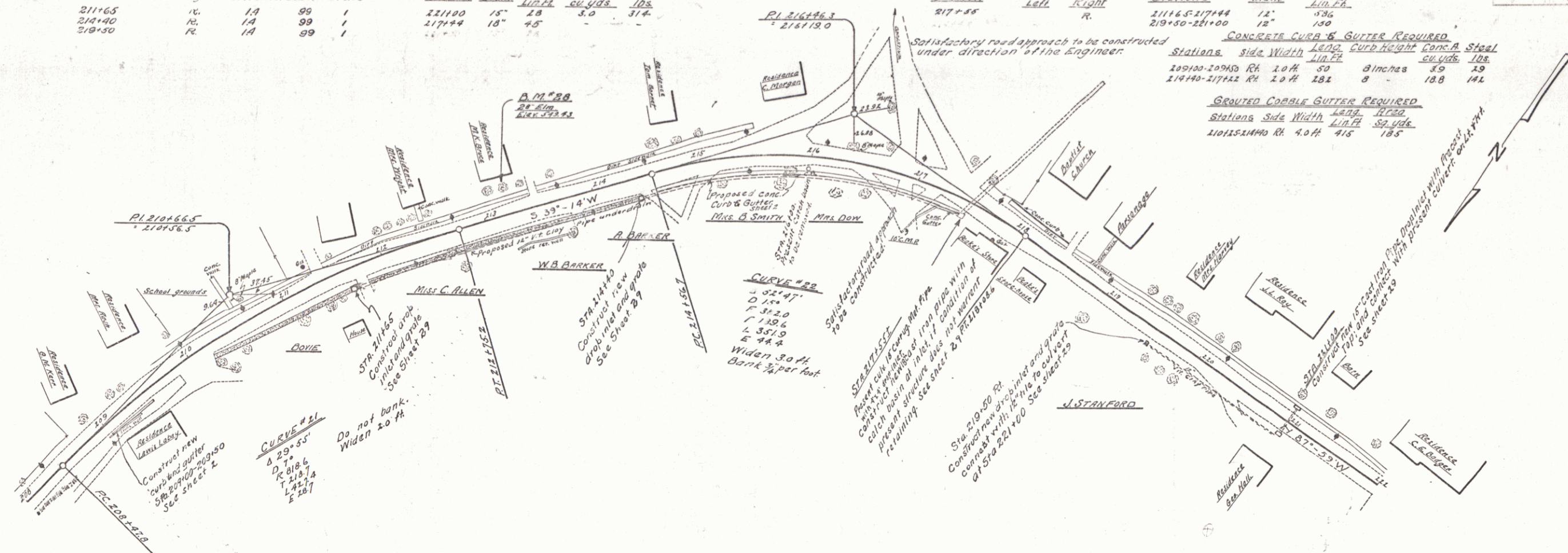
CONCRETE CURB & GUARDRAIL

9/30-22100 12 130

CONCRETE CURB & GUTTER REQUIRED

Stations	Side	Width	Length	Curb Height	Conc. A	Steel
			Lin. Ft		cu. yds.	lbs.
209100-209450	Rt	2.0 ft	50	8 inches	1.9	1.9
214140-217442	Rt	2.0 ft	282	8	10.8	141

<u>GROUTED COBBLE GUTTER REQUIRED</u>				
<u>Stations</u>	<u>Side</u>	<u>Width</u>	<u>Long. Lin. ft</u>	<u>Area Sq. yds.</u>
210115-214490	Rt.	4.0 ft.	415	185



B.M.#26 Spike in root of 26 Elm, 23 ft. left of Sta. 213+24. Elev. 549.43

SERIES FR 15-G
SHEET 13 OF 97

WOOD GUARD RAIL REQUIRED

Station	Left	Right
2231.84	24	24
2261.25	24	24
2271.54	-	24
2261.18	-	24

CABLE GUARD RAIL REQUIRED

Station	Left	Right
2201.50-2231.84	24	-
2261.25-2281.00	24	-
2221.60-2241.12	164	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam.	Length	Cost
2261.25	15"	40	1.5
2291.75	30"	51	3.7
2311.54	15"	44	1.3
2361.18	18"	36	1.3
2231.04	18"	39	3.0
2221.90	18"	36	1.5

CORRUGATED METAL PIPE (PAVED INVERT) NEW DRAINAGE PIPE CULVERTS REQUIRED

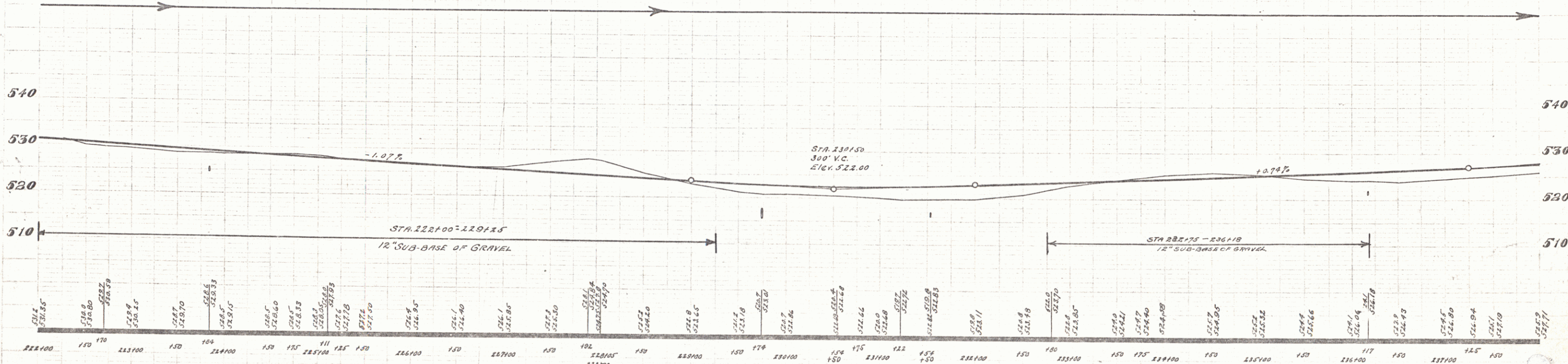
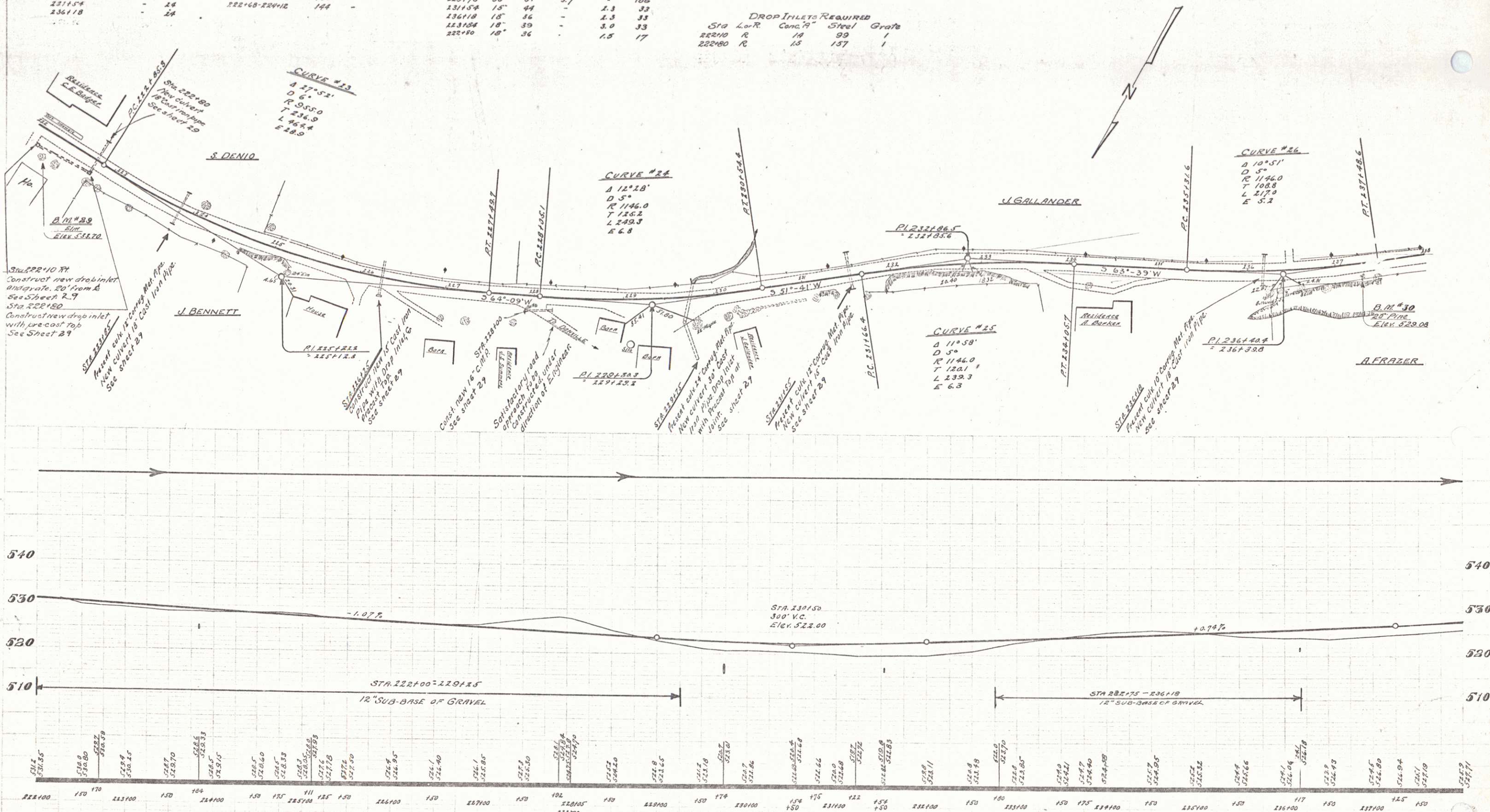
Station	Side	Diam.	Length	Cost
2281.00	R	16"	32	2.1

DROP INLETS REQUIRED

Sta	Loc.	Conc.	Steel	Grate
2221.00	R	18	99	1
2221.80	R	15	157	1

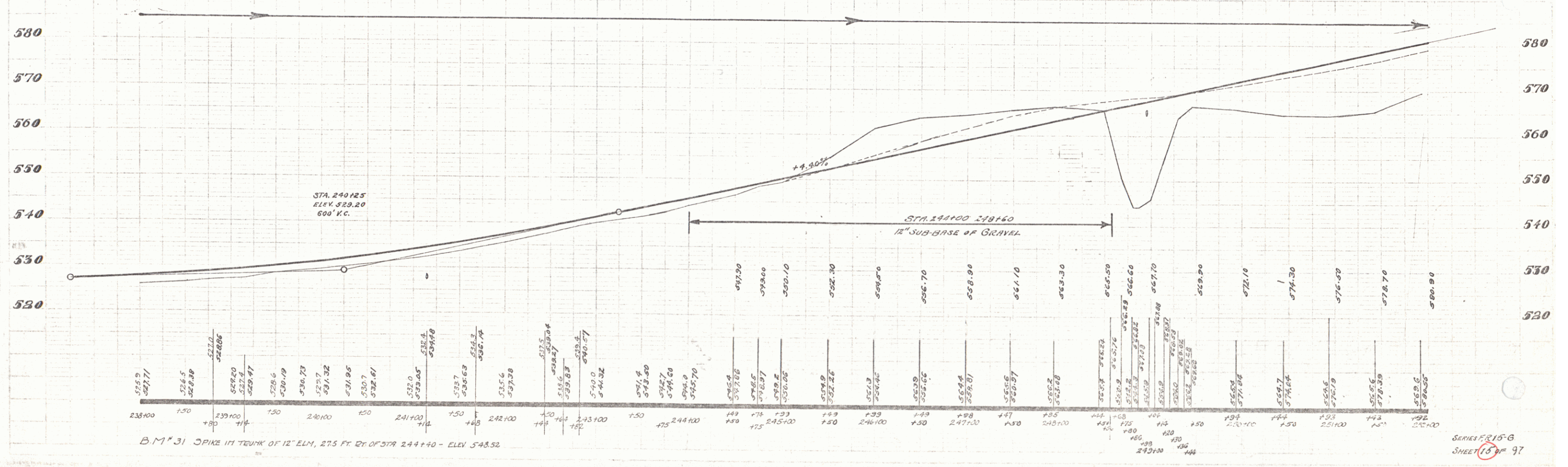
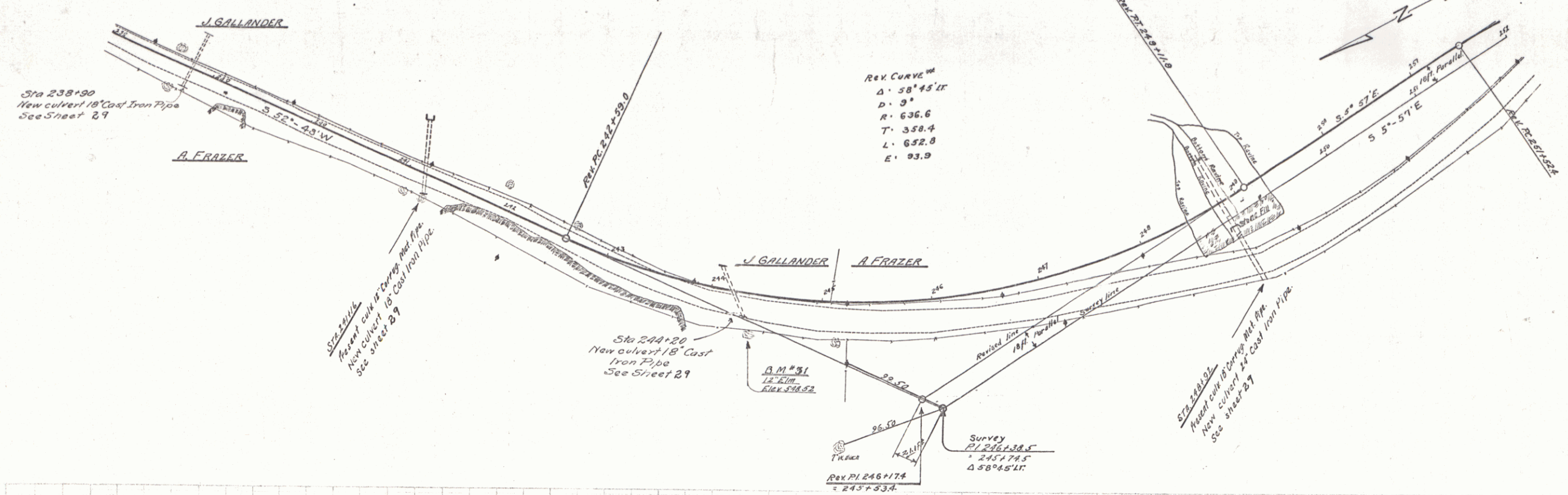
NEW VITRIFIED CLAY PIPE REQUIRED

Sta	Loc.	Diam.	Length
2221.00-2221.80	R	12"	70'



B.M. #29 Spike in root of 36' Elm 85 ft right of Sta. 2221.00, Elev. 533.70
 B.M. #30 Spike in root of 30' Pine 18 ft right of Sta. 2371.29, Elev. 529.00

WOOD GUARD RAIL REQUIRED			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED				
Culvert Station	Left	Right	Stations	Left	Right	Station	Diag.	Length	Clearance	Notes
241+16	24	24	238+00-242+00	70	70	241+14	18"	60	0.8	1.5
244+20	24	24	248+00-249+32	72	72	248+12	18"	72	1.4	3.0
248+20	24	24	250+00-252+00	200	200	249+20	18"	64	3.0	3.3
						249+20	18"	42	3.0	3.3



SHEET 15 OF 97

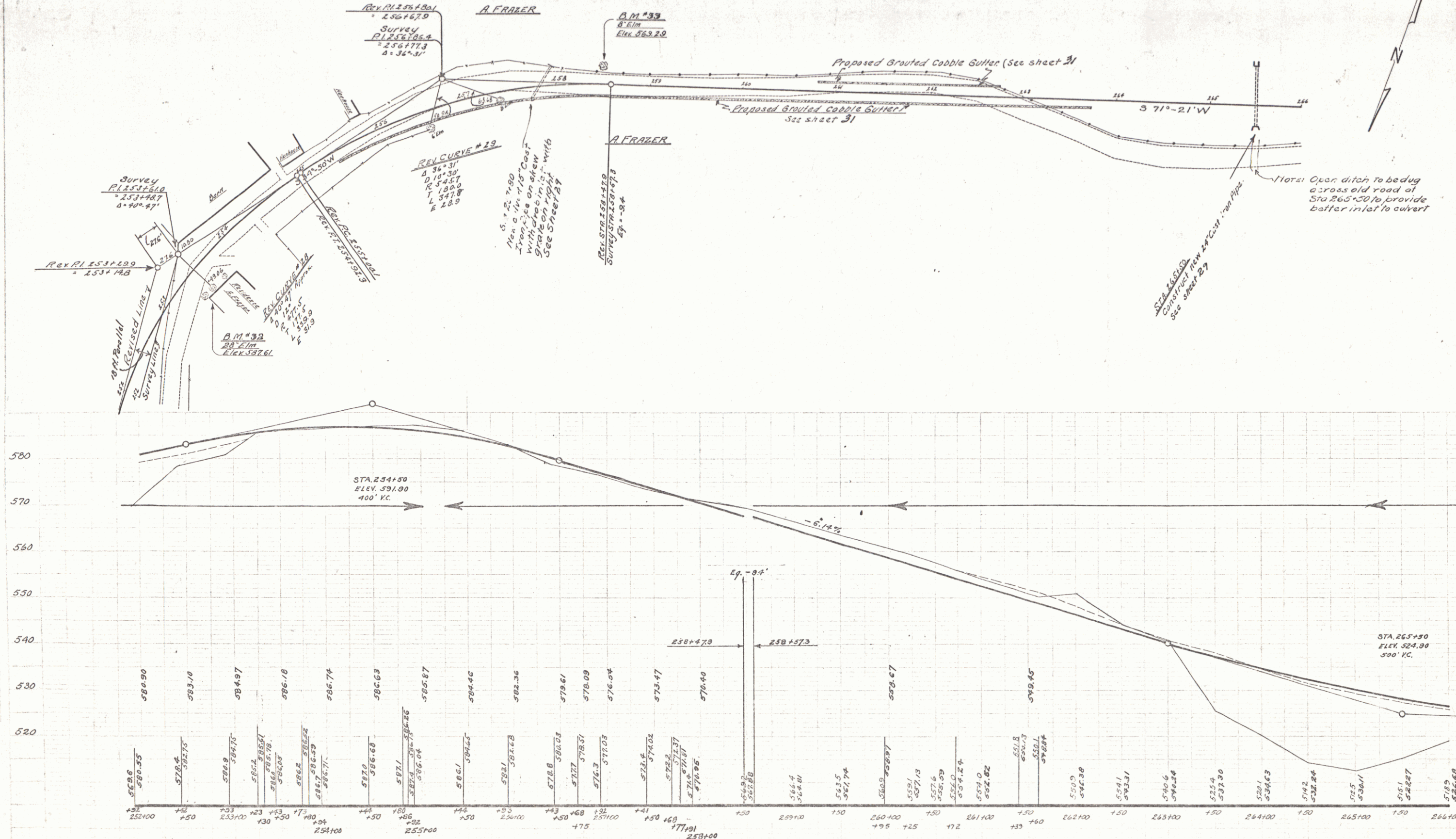
15-G-1929 16-97

2 P. WOOD
E. F. WOODSON

Cable Guard Rail Required			
Stations	Left	Right	
252100-252152	124	-	
254100-254124	-	124	
257150-260106	336	-	
262150-266104	352	-	
267150-266106	-	156	

New Cast Iron Pipe Culverts Required			
Station	Diag.	Length	Grade
265+50	24"	66	5.9
257+80	18"	42	26

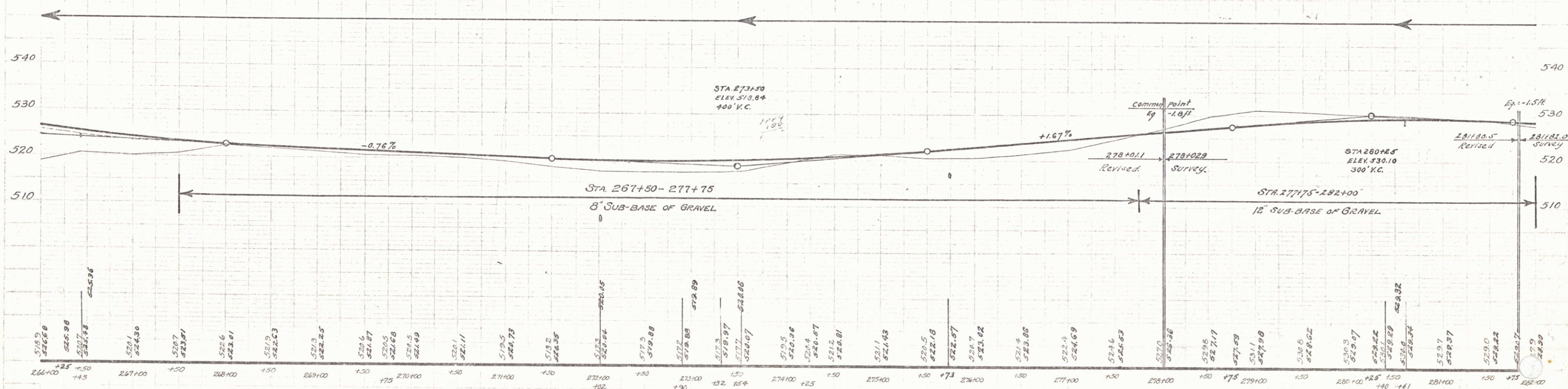
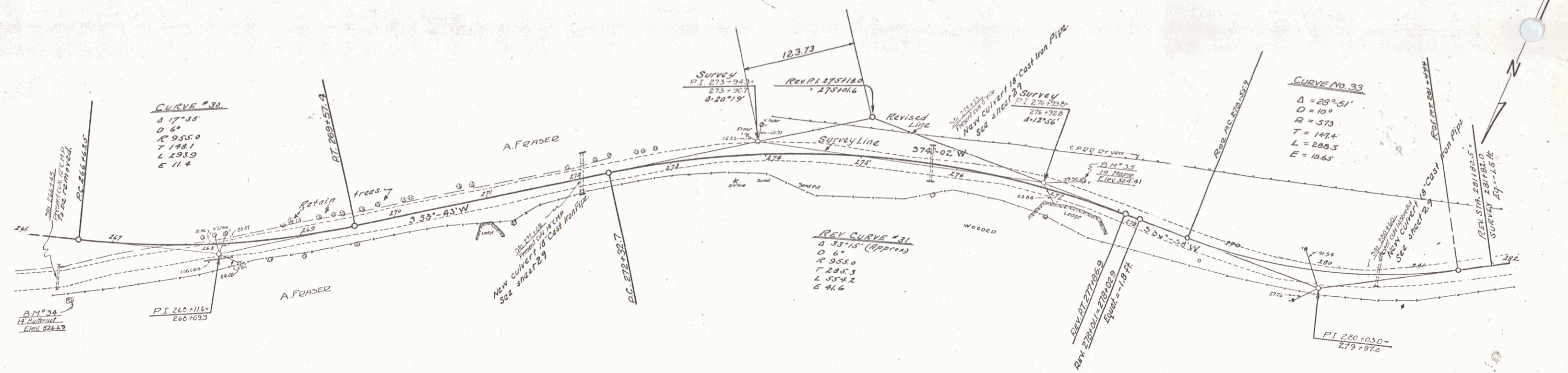
Grouted Cobble Gutter Required			
Stations	Side Width	Length	Area
254150-263175	8.0 ft	82.5	47.5
261180-262175	10.0 ft	19.5	6.5



B.M. 32 SPIKE IN FOOT OF 28' ELM, 22.5 FT. OF STA 253+45 - ELEV. 587.41
 B.M. 33 SPIKE IN TRUNK OF 8' ELM, 16 FT. LT. OF STA 258+47 - ELEV. 569.29

SERIES FR15-B
 SHEET 16 OF 97

WOOD GUARD RAIL REQUIRED			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED		
Culvert Station	Left	Right	Stations	Left	Right	Station	Diam.	Length
272+02	24	24				272+02	18"	35
275+73	24	24				275+73	18"	39
280+60	24	24				280+60	18"	36
			271+00-273+00	200'	-			3.0
								33

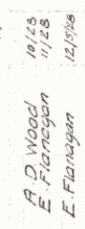
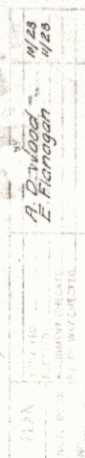


DM#34 SPIKE IN FOOT OF 14" BUTTERNUT, 62 FT. E. OF STA 266+60, - ELEV. 526.29
DM#35 SPIKE IN FOOT OF 14" MAPLE, 17.5 FT. E. OF STA 277+51 - ELEV. 524.41

SHEET 15-B
Sheet 17 of 97

<u>CABLE GUARD RAIL REQUIRED</u>		
<u>Stations</u>	<u>Lin. Ft.</u>	
	<u>Left</u>	<u>Right</u>
204+00 - 204+08	48	-
206+40 - 207+00	360	-

FED. ROAD DIST. NO.	STATE	FED. AID FUNDAL. DIST. NO.
9	VT.	15-G 1929 18 97



SERIES FR#15-G
Sheet 18 of 97

WOOD GUANO RAIL REQUIRED

Culvert Station	Left	Right
301+65	24	24
307+32	24	24
308+50	24	24

CABLE GUANO RAIL REQUIRED

Stations	Left	Right
304+00-308+00	400	400
308+77-309+15	64	48

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Left	Right	Length	Size	Material
301+65	24	24	3.0	36	33
307+32	15	36	2.3	33	33

NEW DROP INLET REQUIRED

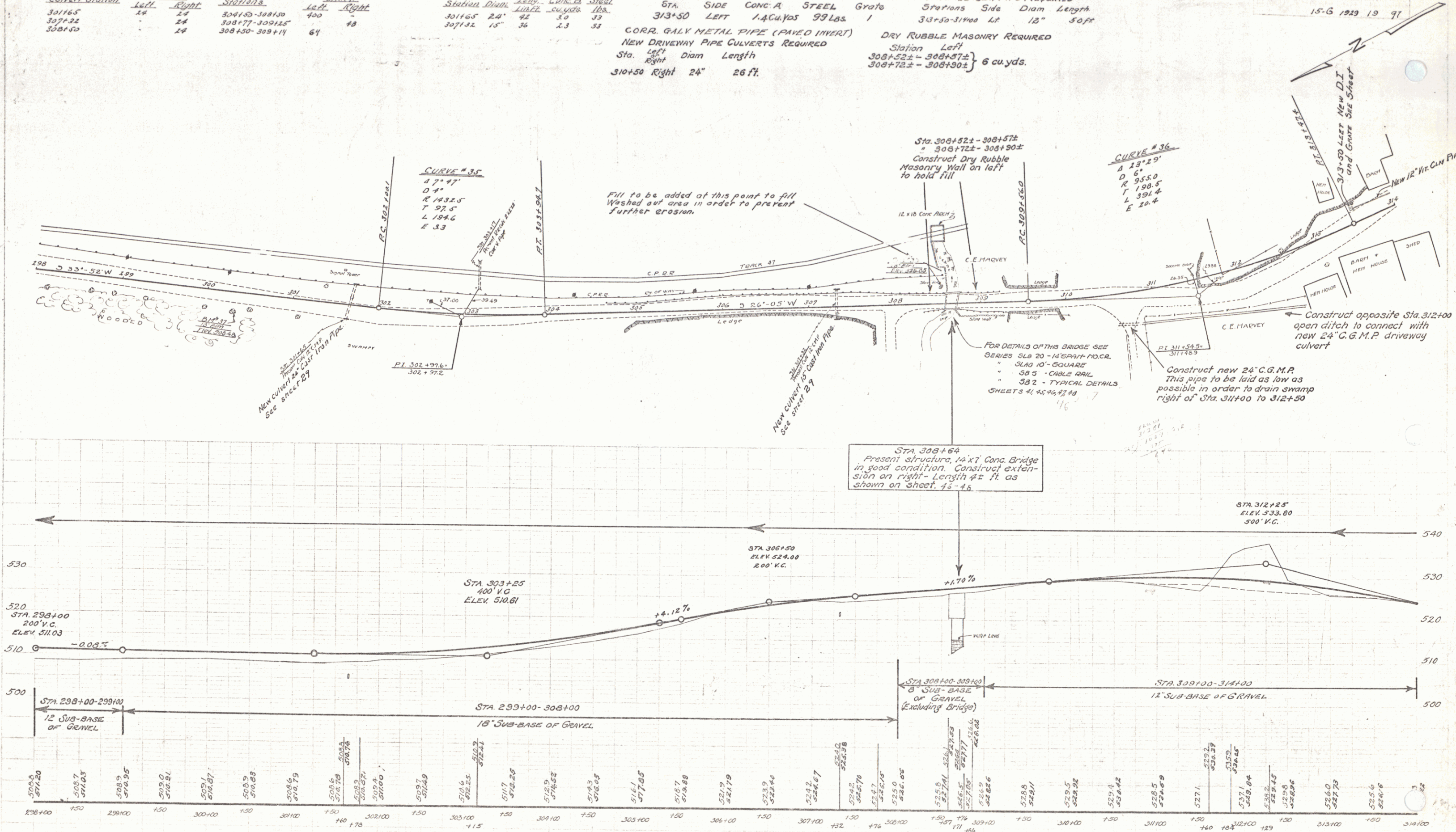
Sta.	Left	Right	Diam	Length
313+30	Left	Right	24"	26 ft.

CORR. GALV. METAL PIPE (PAVED INVERT)
NEW DRIVEWAY PIPE CULVERTS REQUIRED

VITRIFIED CLAY PIPE REQUIRED

Stations	Left	Right	Diam	Length
303+50-311+00	Left	Right	12"	50 ft.

DRY RUBBLE MASONRY REQUIRED
Station Left
308+52± - 308+57± } 6 cu. yds.
308+75± - 308+80± }

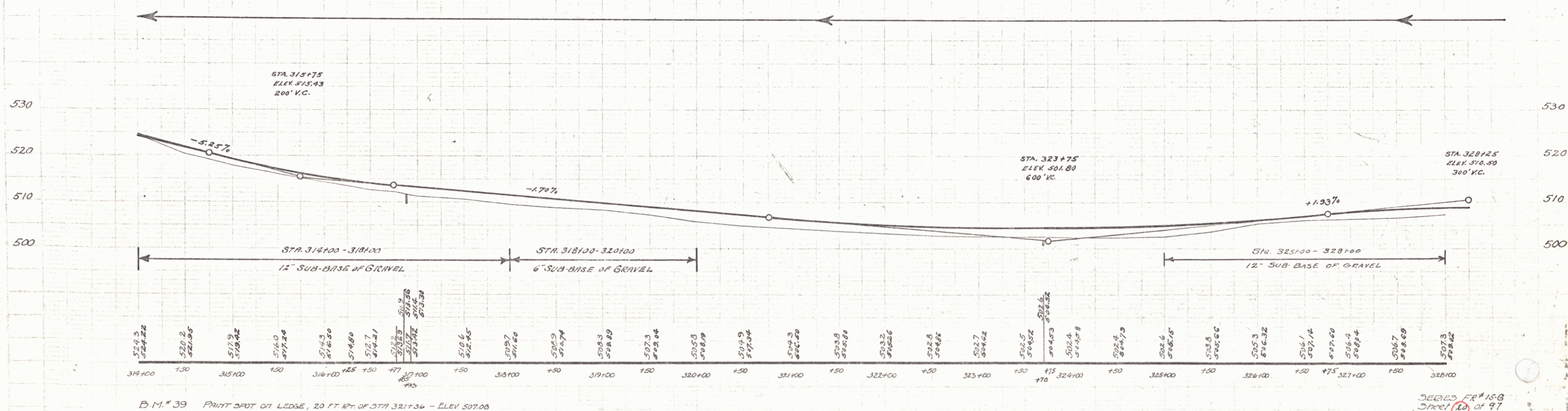


B.M. #37 SPIKE IN FOOT OF 15' ELM, 20.5 FT. E. OF STA. 300+30 - ELEV. 503.48
B.M. #38 SPIKE IN TRUNK OF 15' ELM, 13.5 FT. E. OF STA. 308+33 - ELEV. 504.05

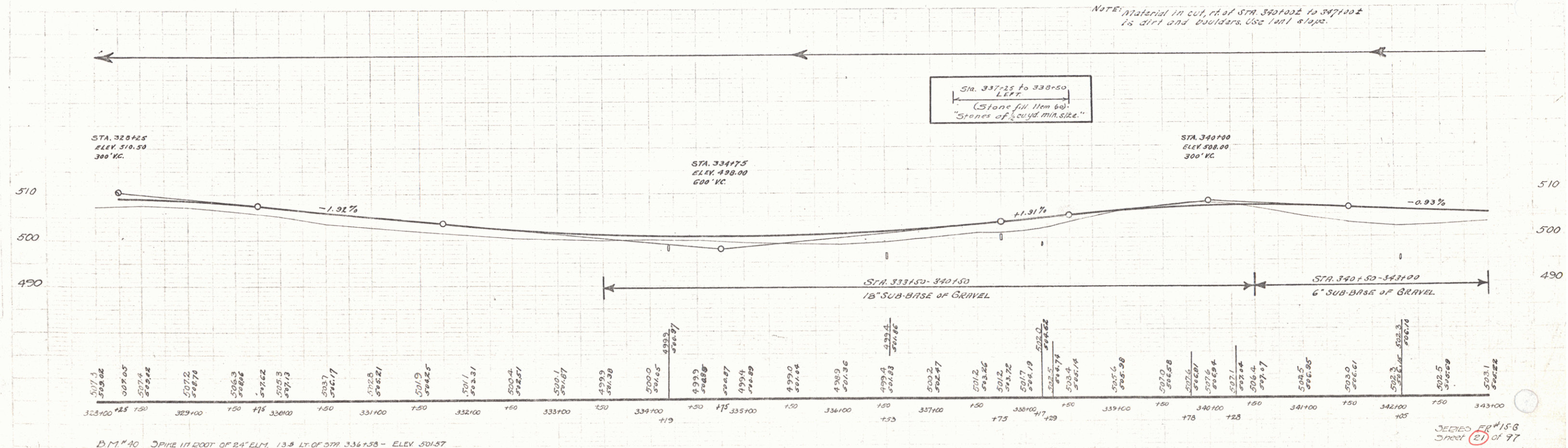
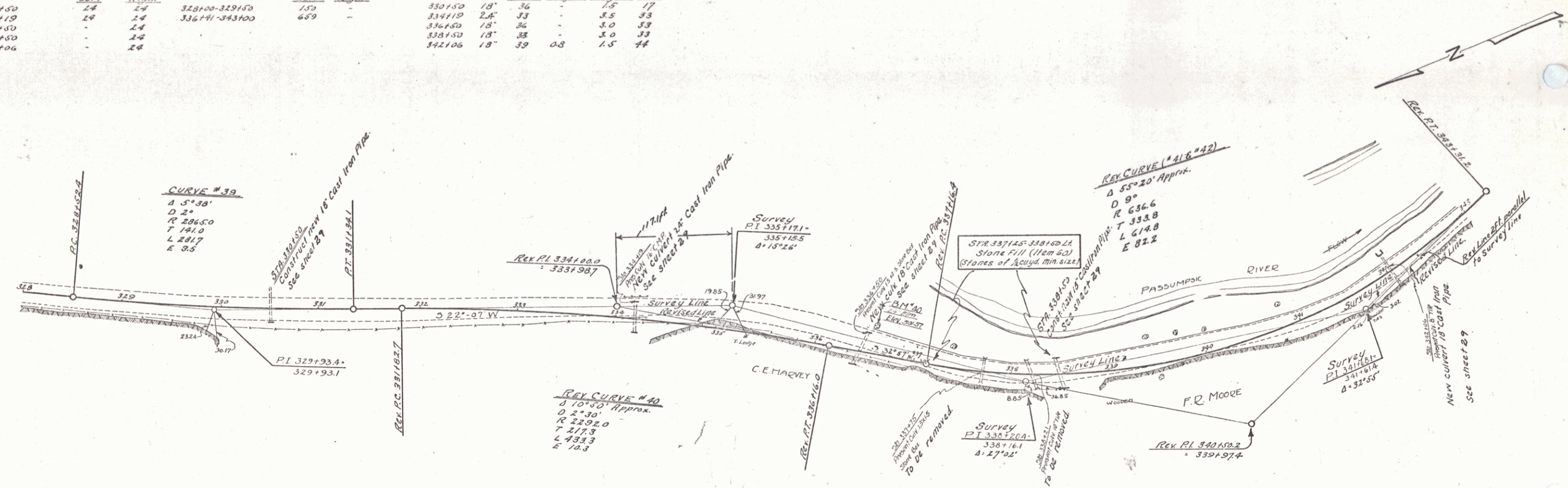
SHEET 15 OF 17

NEW VIT. CLAY PIPE REQUIRED

<u>Sta.</u>	<u>Len.</u>	<u>Diam.</u>	<u>Length</u>	<u>Cont. A</u>	<u>Class B</u>	<u>Steel</u>
3+4.0 to 3+5.10 left.		12"	110 ft	1.4	0.9	116"
			1 Drop inlet grate.			



WOOD GUARD RAIL REQUIRED			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED				
Culvert Station	Left	Right	Stations	Left	Right	Station	Depth	Length	Cost H. Guard	Sheet
330+50	24	24	328+00-329+50	150	-	330+50	18"	36	3.5	33
334+50	24	24	336+00-337+50	600	-	334+50	18"	36	3.0	33
338+50	-	24	-	-	-	338+50	18"	36	3.0	33
342+00	-	24	-	-	-	342+00	18"	39	1.5	44



SHEET 21 OF 97

WOOD GUARD RAIL REQUIRED.

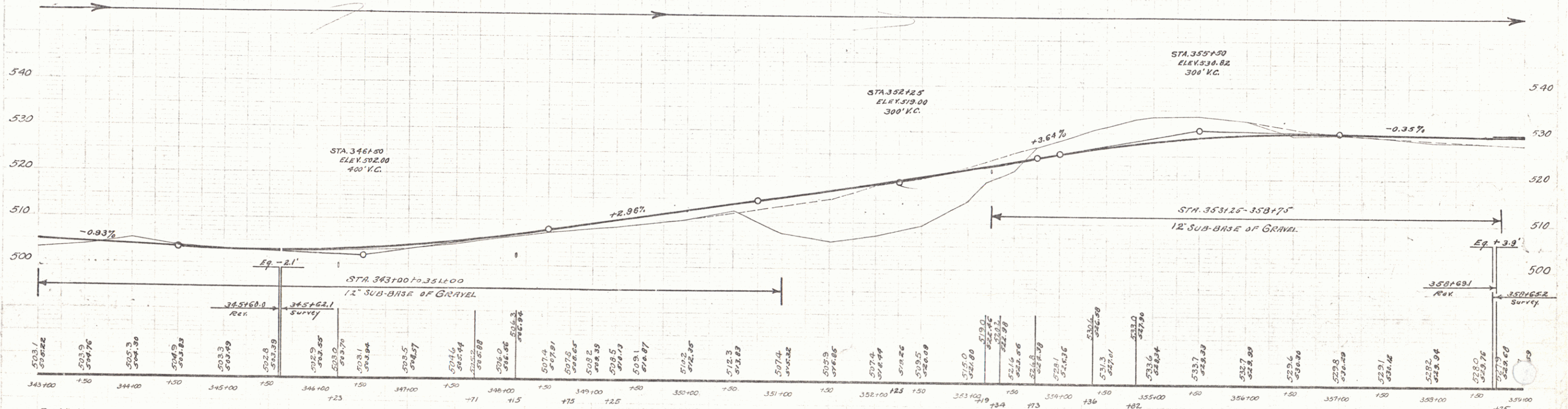
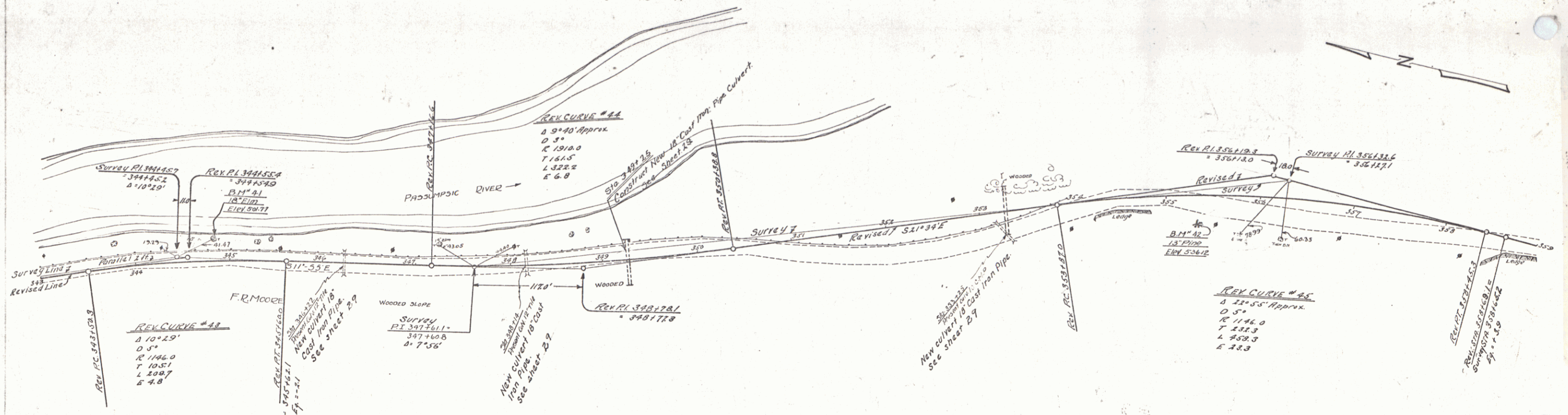
Curv. Station	Left	Right
346+22	18"	24"
348+15	18"	24"
353+19	18"	24"
349+25	18"	24"

CABLE GUARD RAIL REQUIRED.

Curv. Station	Left	Right
346+22	18"	24"
348+15	18"	24"
353+19	18"	24"
349+25	18"	24"

NEW CAST IRON PIPE CULVERTS REQUIRED.

Station	Length	Grade	Notes
346+22	18"	0.8	1.5
348+15	18"	0.8	1.5
353+19	18"	0.8	1.5
349+25	18"	0.8	1.5



B.M. # 41 SPIKE IN TRUNK OF 18" ELM, 19.3 FT. LT. OF STA. 344+33 - ELEV. 501.77
 B.M. # 42 SPIKE IN ROOT OF 13" PINE, 2.5 FT. LT. OF STA. 355+31 - ELEV. 536.12

DESIGNED BY 156
 SHEET 21 OF 97

WOOD GUARD RAIL REQUIRED

Culvert Station	Left	Right
361+98	32	24
366+05	-	24

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
369+92-370+40	-	48'
369+92-370+40	40'	-
370+94-371+26	200'	52'

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Long	Conc. A	Conc. B	Steel	Di. Rate
361+94	18'	39	15	17	
366+05	15'	32	14	99	

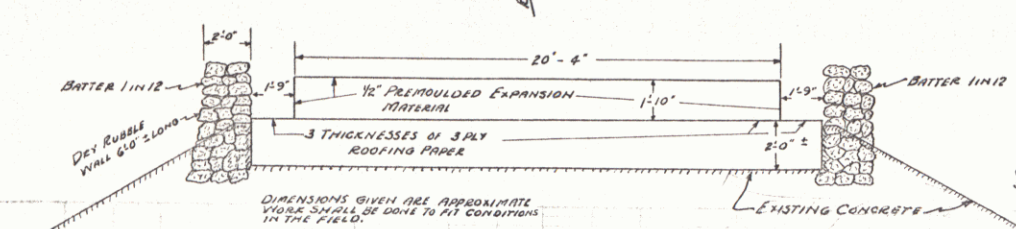
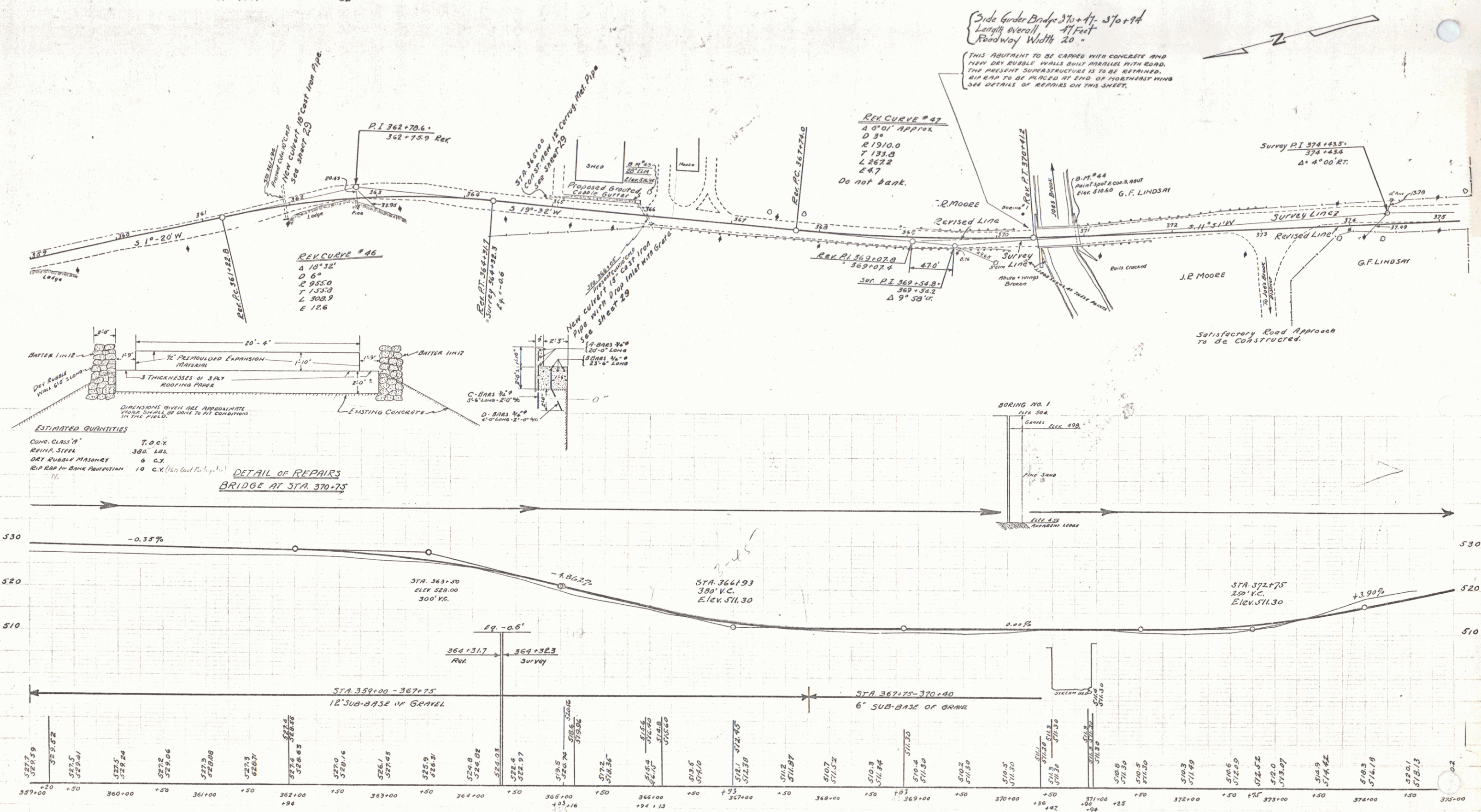
NEW DRIVEWAY PIPE CULVERTS REQUIRED

Station	Side	Diam.	Length	Conc. A	Conc. B	Steel
365+00	Lt	12"	16'			16

GRAVEL COBBLE GUTTER REQUIRED

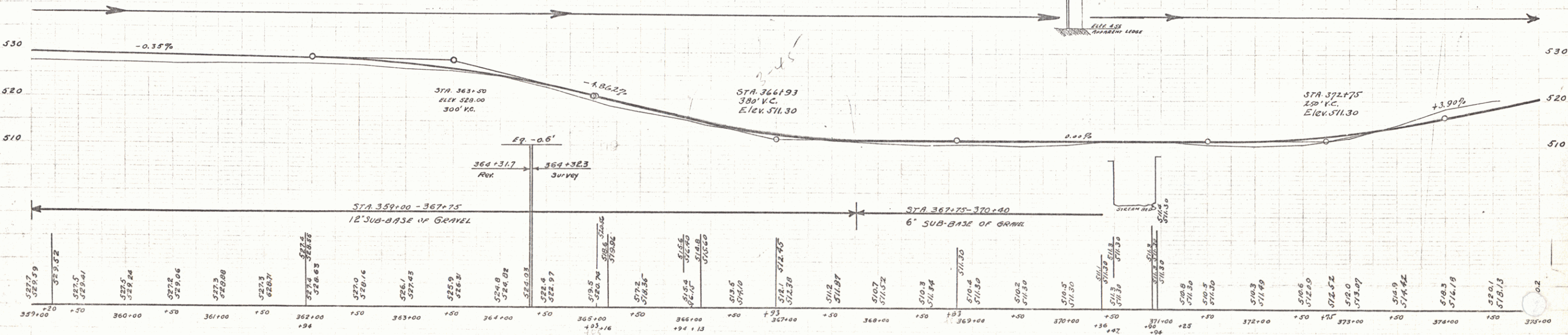
Stations	Side	Width	Length	Area
365+16-365+94	Lt	3.0 ft	70'	26

FED. ROAD DIST. NO.	STATE	FED. AID FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	V	15-6	23	97



ESTIMATED QUANTITIES

Item	Quantity
CONC. CLASS "B"	7.0 CY
REIN. STEEL	180 LBS.
DRY RUBBLE MASONRY	0 CY
DRY RUBBLE MASONRY	10 CY (1/4" to 1/2" size)



D.M. # 43 SPIKE IN ROOT OF 20" ELM, 23 FT. LT. OF STA. 366+06 - ELEV. 516.95
 D.M. # 44 PRINT SPOT ON EAST CORNER OF SOUTH ABUTMENT, 12.5 FT. LT. OF STA. 370+90 - ELEV. 510.60

SERIES PR 15-6
 Sheet 23 of 97

Wood Guard Rail Required

Station	Left	Right
382+00	24	24
383+47	-	-

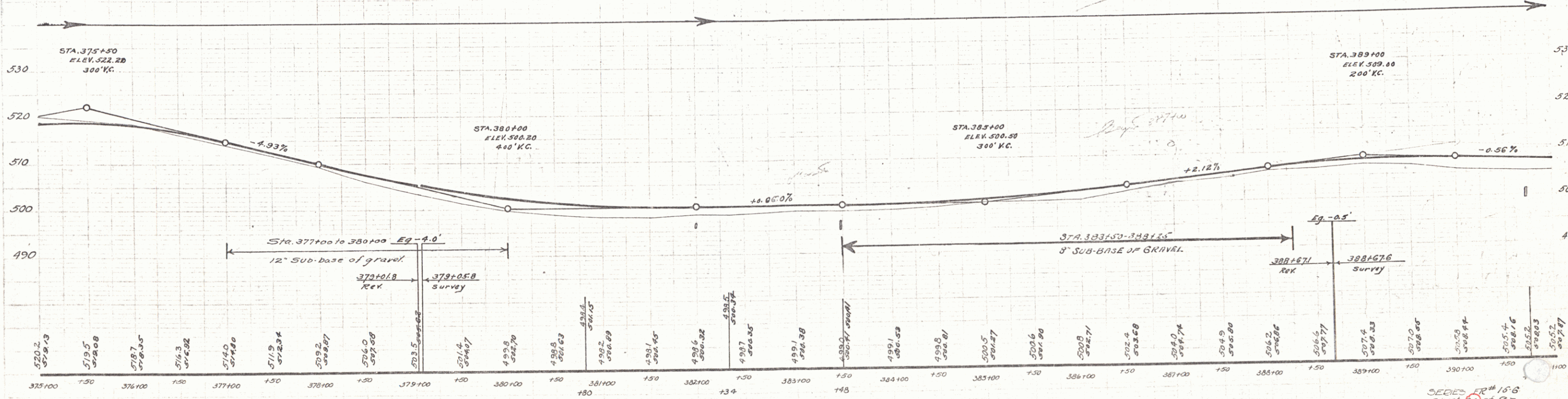
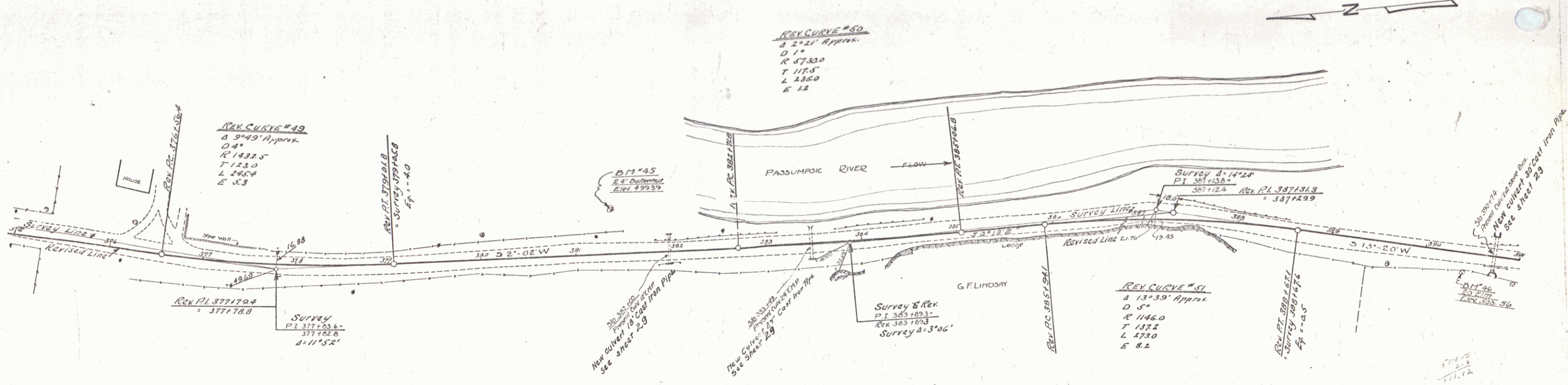
Cable Guard Rail Required

Station	Left	Right
381+88-389+00	112	60
390+15-390+85	-	-

New Cast Iron Pipe Culverts Required

Station	Length	Size	Material
382+00	10'	36"	3.0
389+73	30'	36"	3.2
393+47	24'	36"	4.6

STATE OF NEW YORK
15-6 1929 14 97

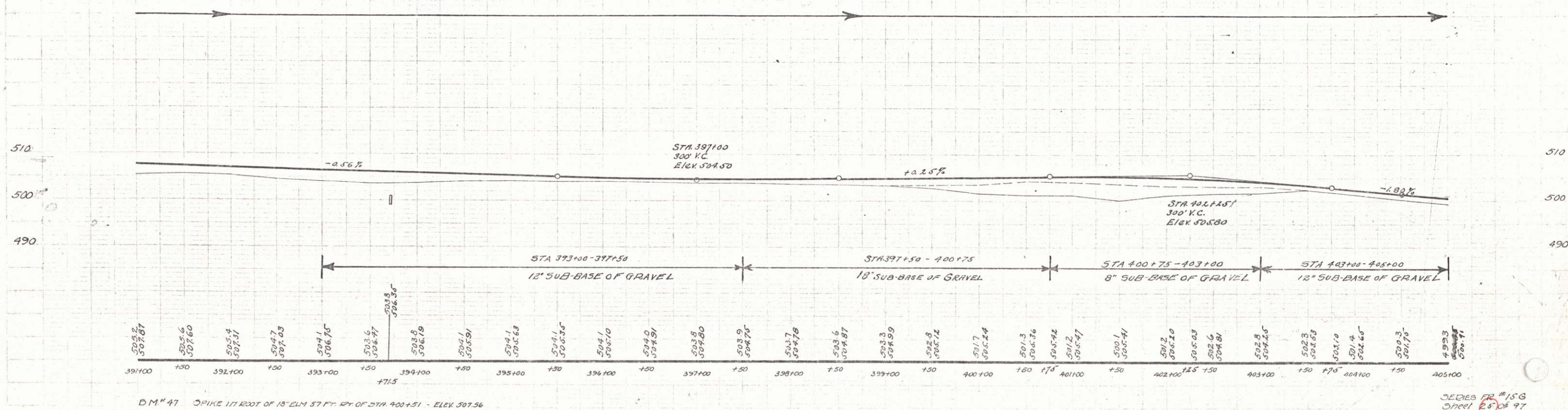
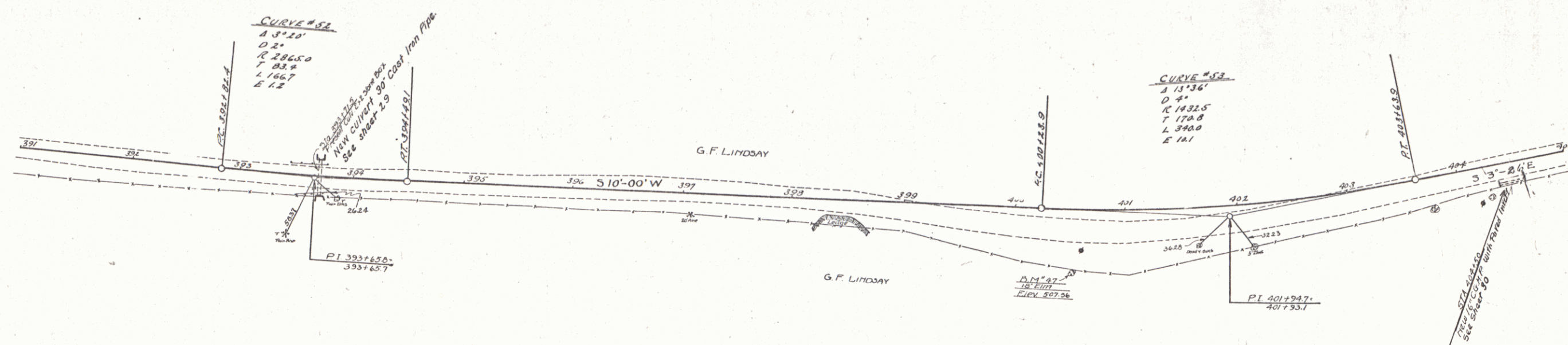


B.M. # 45 SPIKE IN ROOT 24" BUTTERNUT, 26 FT. LT. OF STA. 381+41 - ELEV. 499.39
B.M. # 46 SPIKE IN ROOT 20" ELM, 18 FT. RT. OF STA. 390+42 - ELEV. 503.56

SHEET # 15-6
Sheet 24 of 97

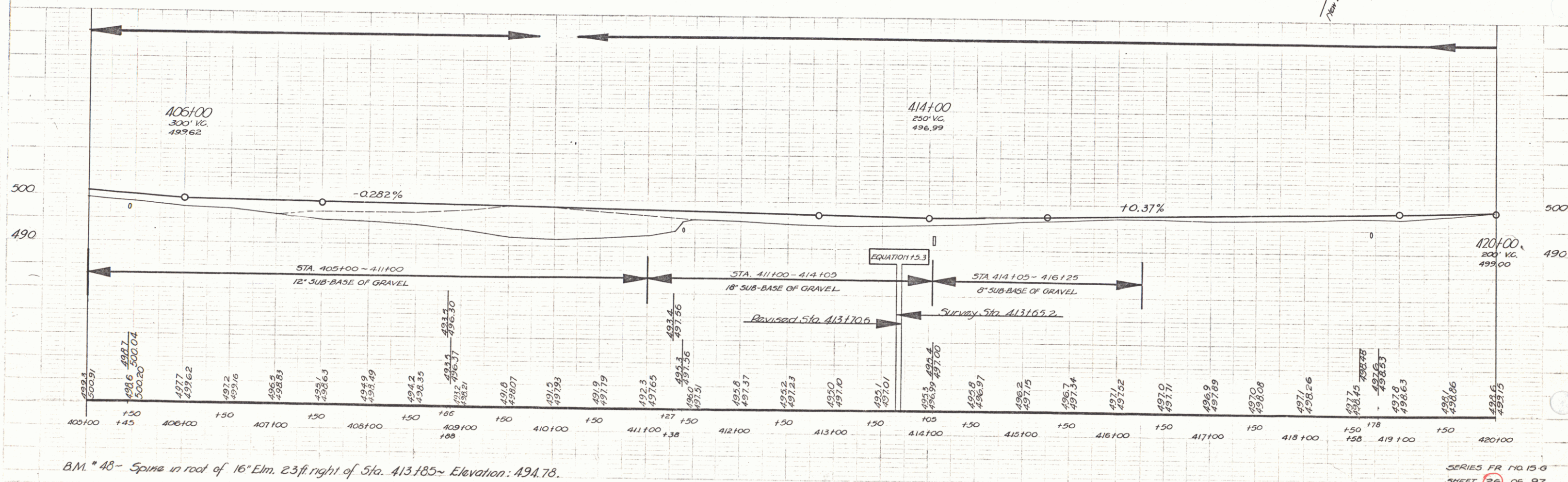
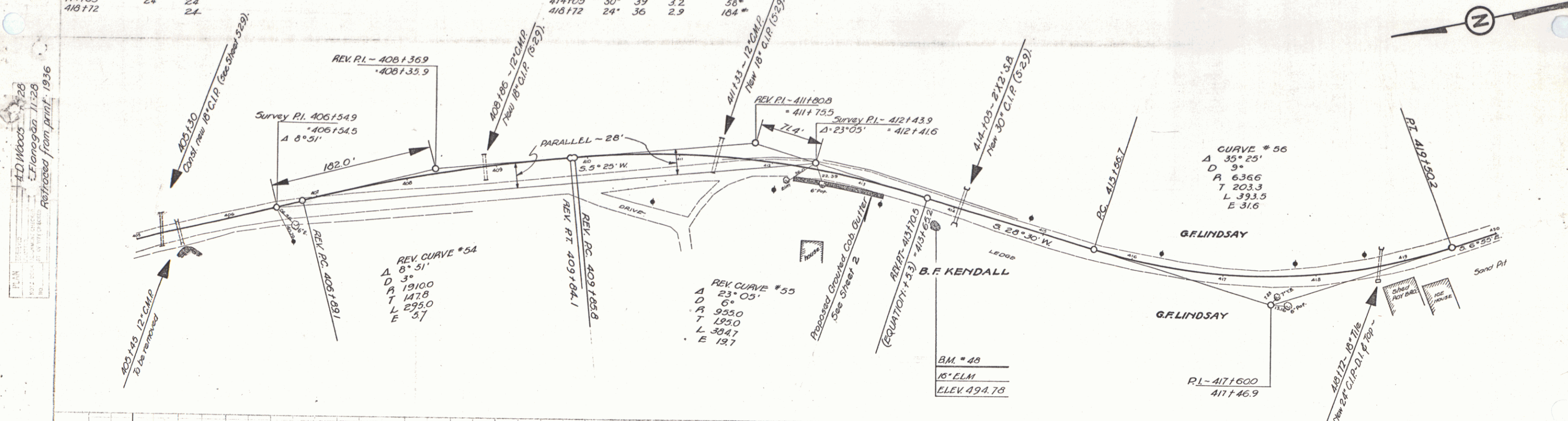
<u>NEW DRIVEWAY PIPES REQUIRED</u>				
<u>Corn Galv Metal Pipe (Paved Inverts)</u>				
<u>Stra.</u>	<u>Left of Road</u>	<u>Diam</u>	<u>Length</u>	<u>Corn Rubble Mos</u>
409 r50	R/R	16"	24 Ft	2 1 Cu Yd

FED. ROAD DIST. NO.	STATE	FED. AID FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	15-G 1929	25	97



GROUTED COBBLE GUTTER REQUIRED
 Stations · Side-Width · Length-l.f. · Area-s.yds.
 412+25 } Rt. 30' 150' 50
 413+75 }

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	15-G	1929	26	97



A.D. WOOD OCT
E. FLANAGAN, N. 1928
RETRACTED FROM REINT 1936 R.G.

A.D. WOOD FLANAGAN
RETRACTED

WOOD GUARD RAIL REQUIRED

Culvert Station	Left (lin.ft.)	Right
423+00	24	
426+00		24

CABLE GUARD RAIL REQUIRED

Stations	Left (lin.ft.)	Right
420+00-426+00	690	
420+00-421+70		120
421+40-428+10	64	

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Length (ft.)	Conc. A (cy)	Steel (lbs.)
423+00	18	3.3	33
426+00	24	3.0	33
428+10	12	4.6	33

CONCRETE RETAINING WALL REQUIRED

Stations	Concrete class B	Steel
428+00 RT. - 429+75 RT.	820 cu yds.	1720 lbs.

NEW R.C. BOXES REQUIRED

Station	Size	Conc. class A	Steel
420+00	3'x3'	160 cu yds.	1068 lbs.

NEW CAST IRON PIPE REQ'D.

Station	Diameter	Length (lin.ft.)
428+10	18"	48
430+00	12"	32
431+15	12"	28
432+10	12"	28

GROUTED COBBLE GUTTER REQUIRED

Stations	Side	Width	Length (lin.ft.)	Area (sq yds)
426+10 - 429+75 RT.	30 ft.	360	122	

D.I. AND GRATES REQUIRED

Station	Side	Conc. A (cy)	Steel (lbs)	Grate
428+38 RT.		1.4	99	1
430+00 RT.		1.4	99	1
430+00 LT.		1.4	99	1
431+15 RT.		1.4	99	1
431+25 LT.		1.4	99	1
432+10 RT.		1.4	99	1
432+40 LT.		1.4	99	1

VIT. CLAY PIPE REQ'D.

Stations	Diameter	Length
428+38-429+75	18"	137
Extension to outlet - 18"		58
429+14 - 431+00	15"	324

