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- 114 S.E. No. 97 (Scale 1/4")
- 115 S.E. No. 98 (Scale 1/4")
- 116 S.E. No. 99 (Scale 1/4")
- 117 S.E. No. 100 (Scale 1/4")

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

TOWN OF SPRINGFIELD
CHARLESTOWN N.H. - SPRINGFIELD ROAD
 FROM CHESHIRE BRIDGE NORTHWESTERLY
 3.045 MILES TO THE MACADAM ROAD IN SPRINGFIELD.

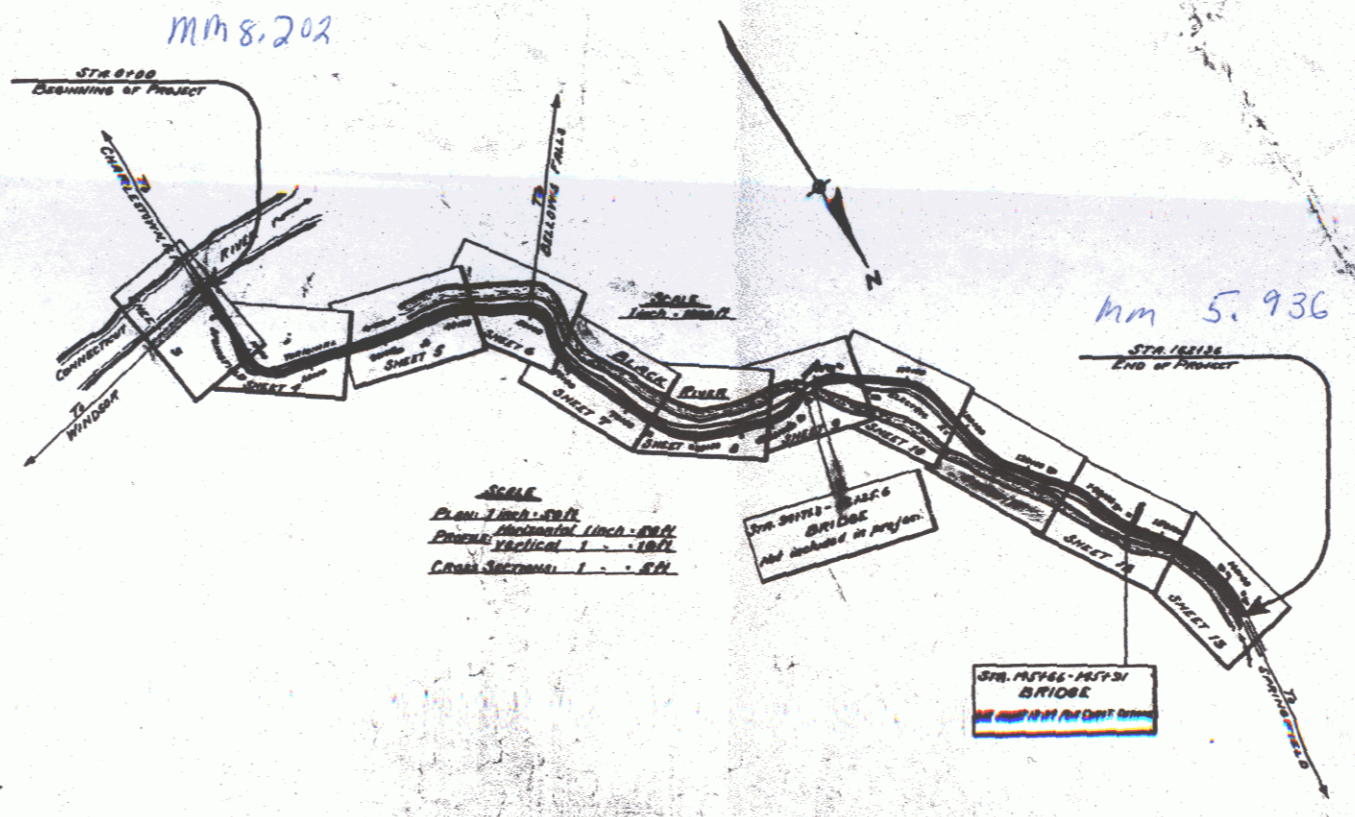
VT Route: VT 11
 Project: 123A
 Pin # 99R897

LENGTH OF PROJECT
 EXCLUDING BRIDGES OVER RPT SPAN - 1800 FT. - 3.045 MILES
 INCLUDING BRIDGES OVER RPT SPAN - 1800 FT. - 3.045 MILES

NOTE: The contractor will be required to construct at contract unit prices the roadway in accordance with any changes in location and grade that may be made in the bridge at the bridge site.

The following items are to be contracted under a separate contract with the State Highway Dept. The plans for this work are combined with the State Highway Dept. Project 123A. The contract with the Town of Springfield covers the widening and protection of about 1/2 mile of State Rte. 11 and includes the following items:

- Concrete Cribbing, Item 88.
- Concrete Cribbing, Item 89.
- Concrete Cribbing, Item 90.
- The Under-drain Item 68 (to be placed at the back of the concrete cribbing in position shown in sketch on sheet 10. Backfill shall consist of gravel of the same quality as the sub-base of gravel and the furnishing and placing of this backfill shall be included in the unit price for the under-drain.



CONVENTIONAL SIGNS

COUNTY LINE	GROUND ELEVATION
TOWN LINE	GRADE ELEVATION
FENCE LINE	
STONE WALL	
UNFENCED PROPERTY	
GUARD RAIL	
TRAVELED WAY	
RAILROAD	
CENTER LINE	
SURVEY LINE	
CULVERT	
DROP INLET	
TROLLEY POLE	
TELEPHONE P.O.L.	
TRUSS	
WEDGE	

CURVE DATA
DEFLECTION ANGLE
DEGREE OF CURVE
RADIUS OF CURVE
TANGENT DISTANCE
LENGTH OF CURVE
EXTERNAL DISTANCE
POINT OF INTERSECTION
POINT OF CURVE
POINT OF TANGENT
POINT ON TANGENT

APPROVED: *H. Blaisdell*
 SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD
J. A. White
 COUNTY ENGINEER OF VERMONT

SERIES NO. 153 FILED
 SHEET 1 OF 3

3/1/00 m -
 CROWN BY ML

TYPICAL SECTIONS

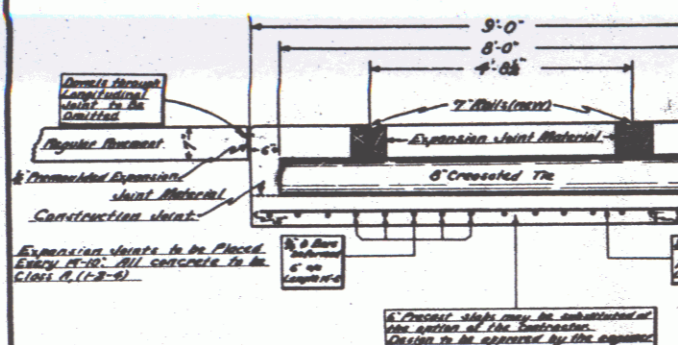
ONE COURSE CEMENT CONCRETE PAVEMENT - TYPE B

Details of Expansion Joints
 Design to bond and isolate concrete slabs before reaching full strength. All bars and full width of PC and carry full load and full width from PC to PT. Reinforcement on the 100 ft beyond PT. Width all courses greater than 5'-0" 8'-0" on the inside.

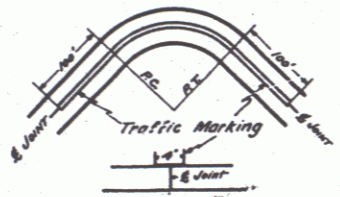
Width of PC in Expansion
 3'-0" to 4'-0" 6 inches
 4'-0" to 7'-0" 8 inches
 7'-0" to 10'-0" 12 inches
 10'-0" and over 12 inches

Expansion at a Shoulder
 When embankments are to be made on a bridge the slope of the original ground on which the embankment are to be placed shall be clearly shown before filling is commenced.
 (See Specifications Paragraph A Item 10 Paragraph 103)

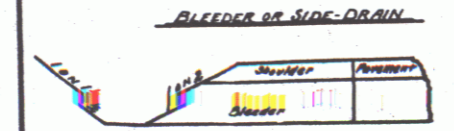
DETAILS OF PAVEMENT FOR ELECTRIC CAR TRACK



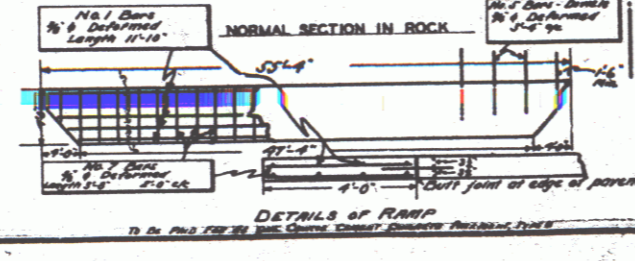
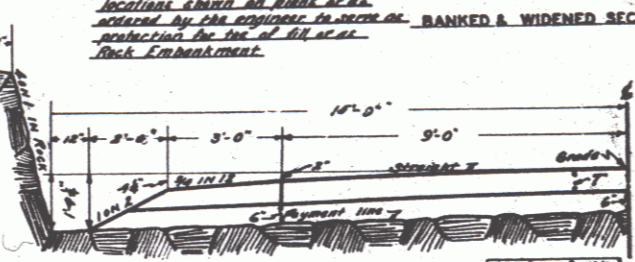
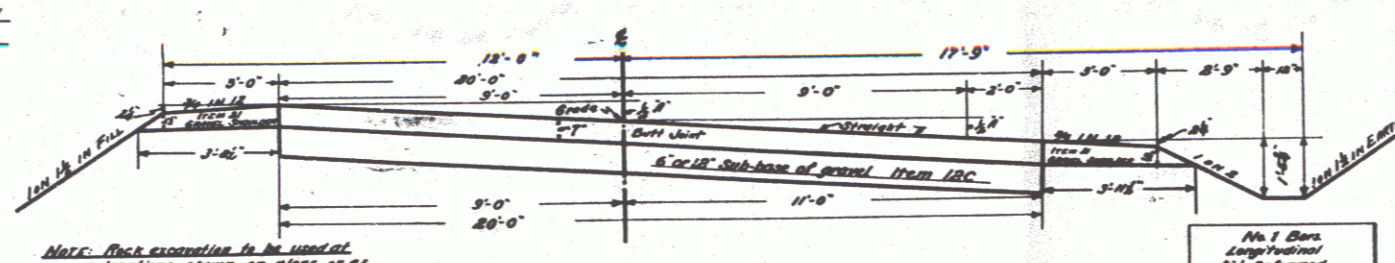
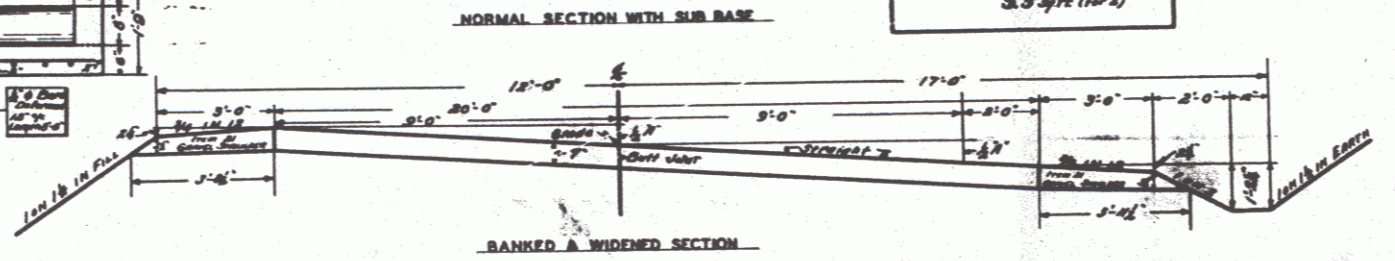
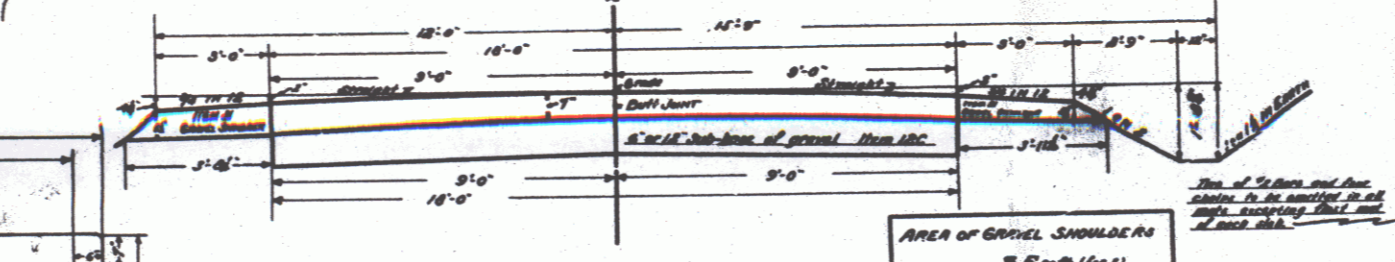
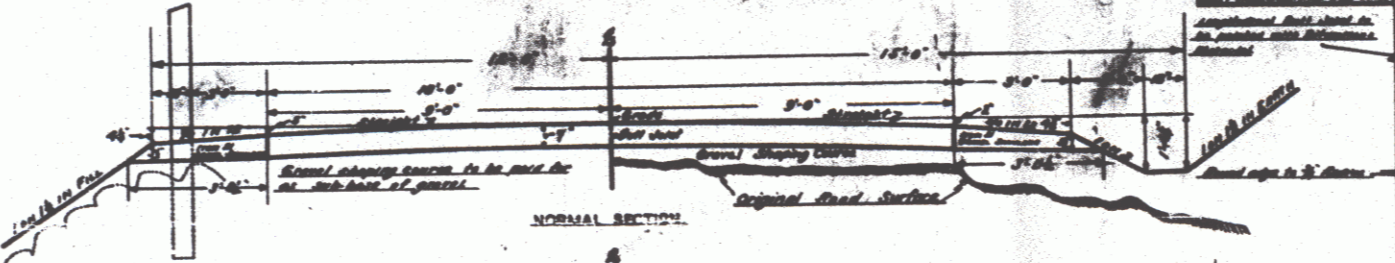
Gravel Shaping Course
 A gravel shaping course is to be constructed for the entire length of the project excluding those sections where sub-base of gravel is called for in the layout. The gravel shaping course is not to exceed a depth of six inches (6") and it is to be paid for as sub-base of gravel.



Traffic Lane Markings
 A strip 4" wide to be painted with an approved asphaltic paint along the 4" wide concrete. Also this strip to be used in connection with vertical curves at the discretion of the engineer or as noted on plans. Materials and labor to be included in the price bid for one course cement concrete pavement type A Item B.B.A.



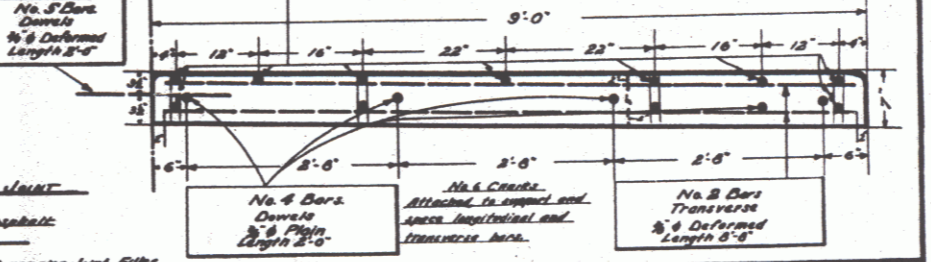
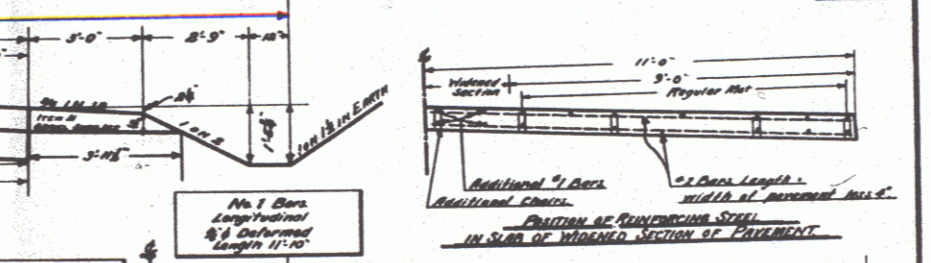
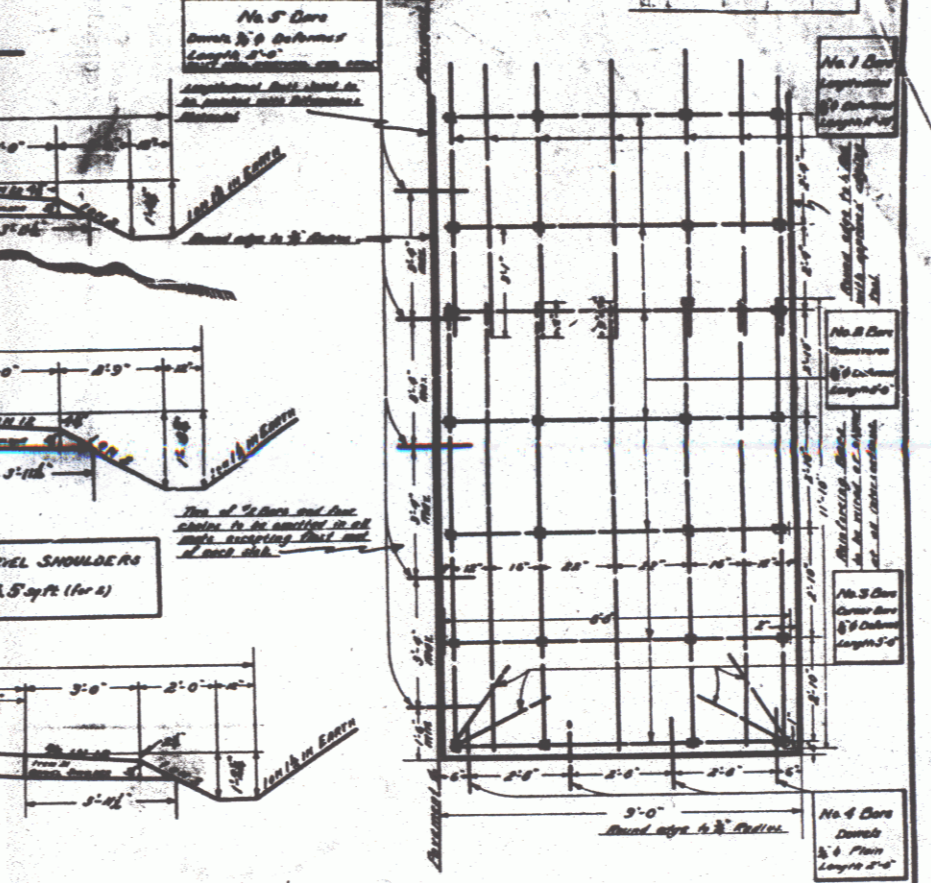
Bleeder or Side Drain
 Bleeder or side drains from sub-base of gravel to be located at frequent intervals to provide proper drainage to side of road. Thickness of drain equals thickness of sub-base & width of drain 3/8".



PAVEMENT AREAS	
NORMAL SECTION	18.00 sq ft
BANKED & WIDENED SECTION	16.67 sq ft
GRAVEL SUB-BASE AREAS	
NORMAL SECTION	6.00 sq ft
BANKED & WIDENED	5.56 sq ft

DETAILS OF TRANSVERSE EXPANSION JOINT
 To be filled with approved hot asphalt.

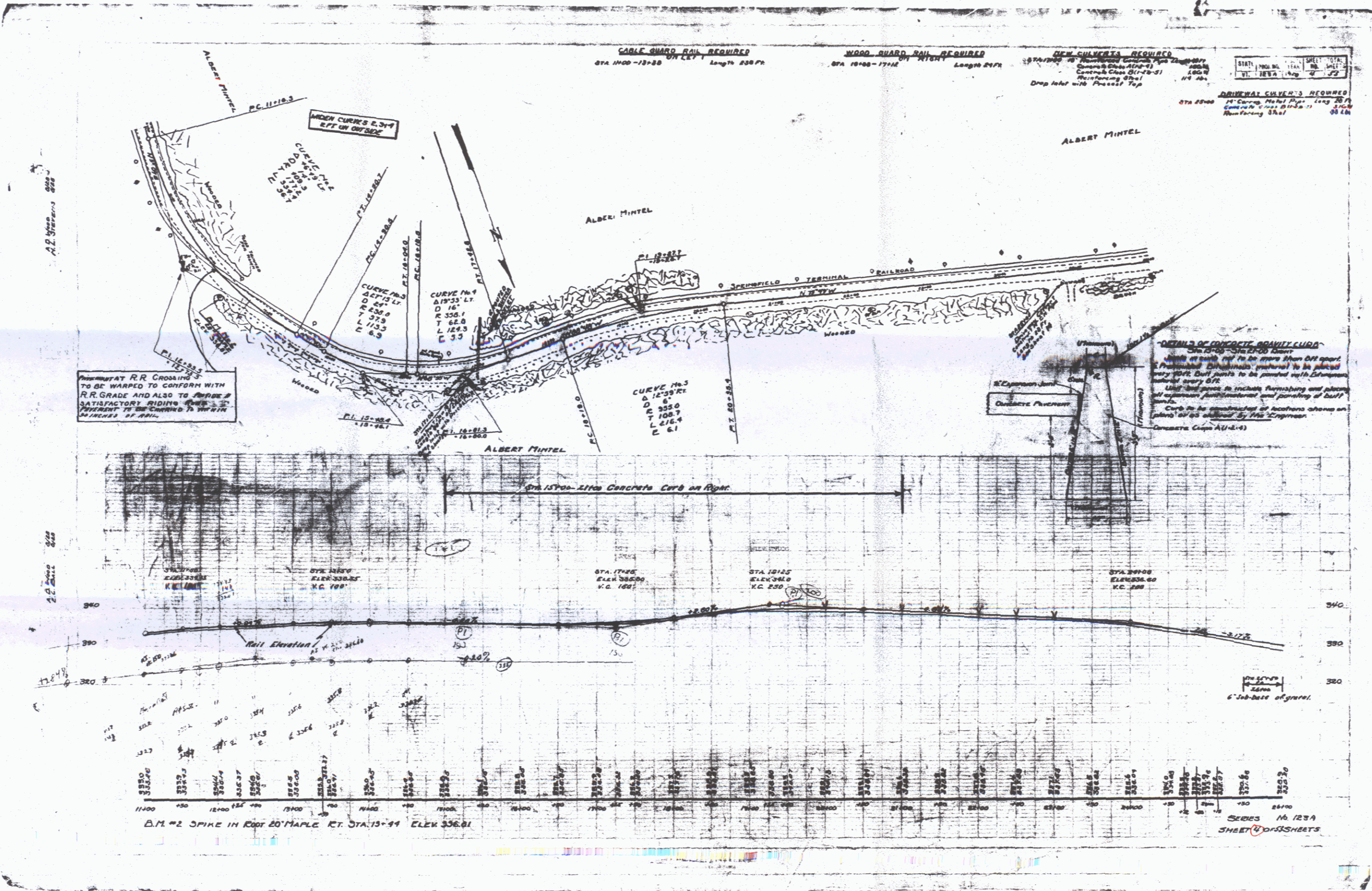
REINFORCING STEEL PER SQ YD OF PAVEMENT EXCLUSIVE OF DEVELOP & CORNERS
 REINFORCING STEEL PER SQ YD OF PAVEMENT EXCLUSIVE OF DEVELOP & CORNERS



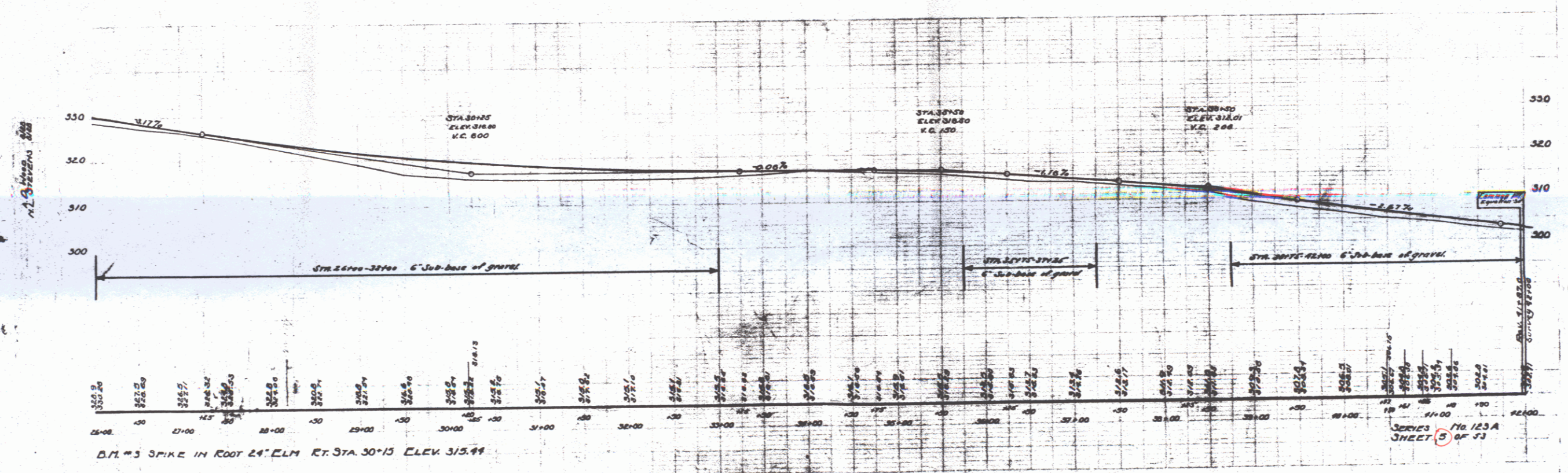
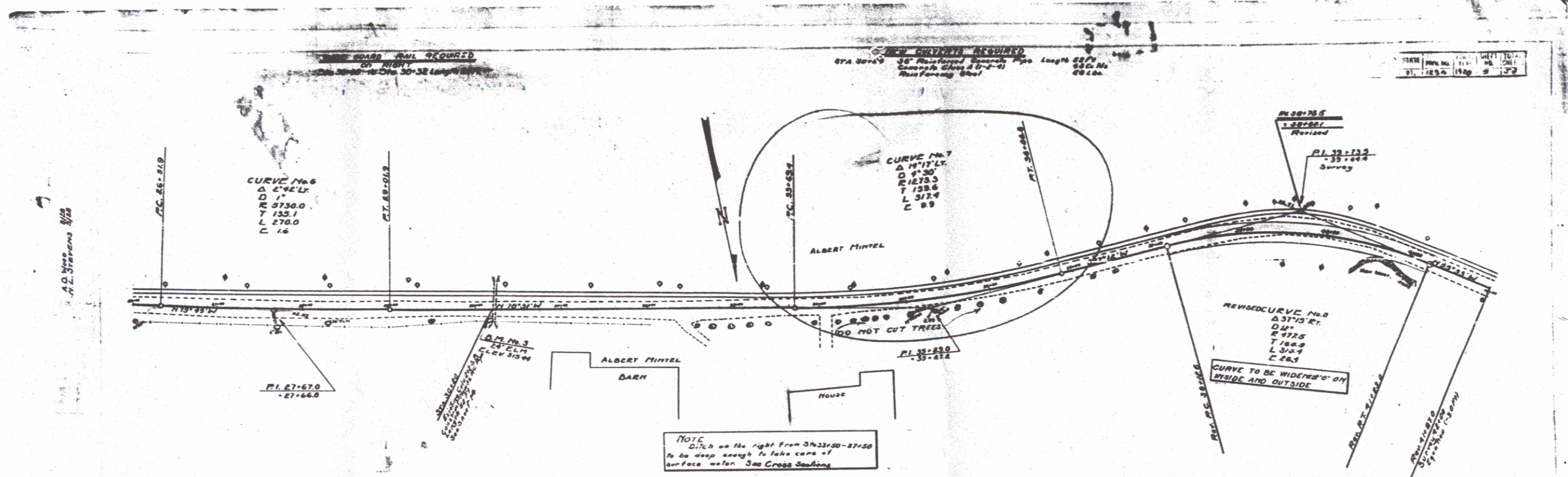
Number	Size	Kind	Length	Quantity
No. 1 Bars	1/2"	Deformed	11'-0"	1
No. 2 Bars	3/8"	Deformed	11'-0"	1
No. 3 Bars	1/2"	Deformed	11'-0"	1
No. 4 Bars	3/8"	Deformed	11'-0"	1
No. 5 Bars	1/2"	Deformed	11'-0"	1
No. 6 Bars	3/8"	Deformed	11'-0"	1

Designed by WOOD
 Designed by H.E. SARGENT
 Drawn by E.C. BALL
 Traced by H.B. KIMBALL
 Checked by
 Scale No. 1/8" = 1' Plot Sheet 5 of 23 Sheets

POOR ORIGINAL COPY



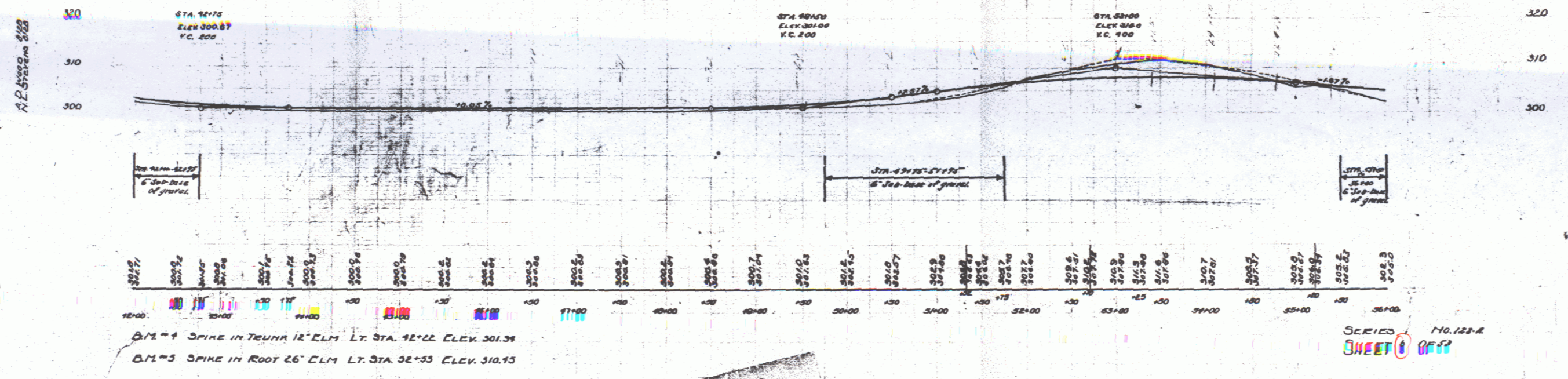
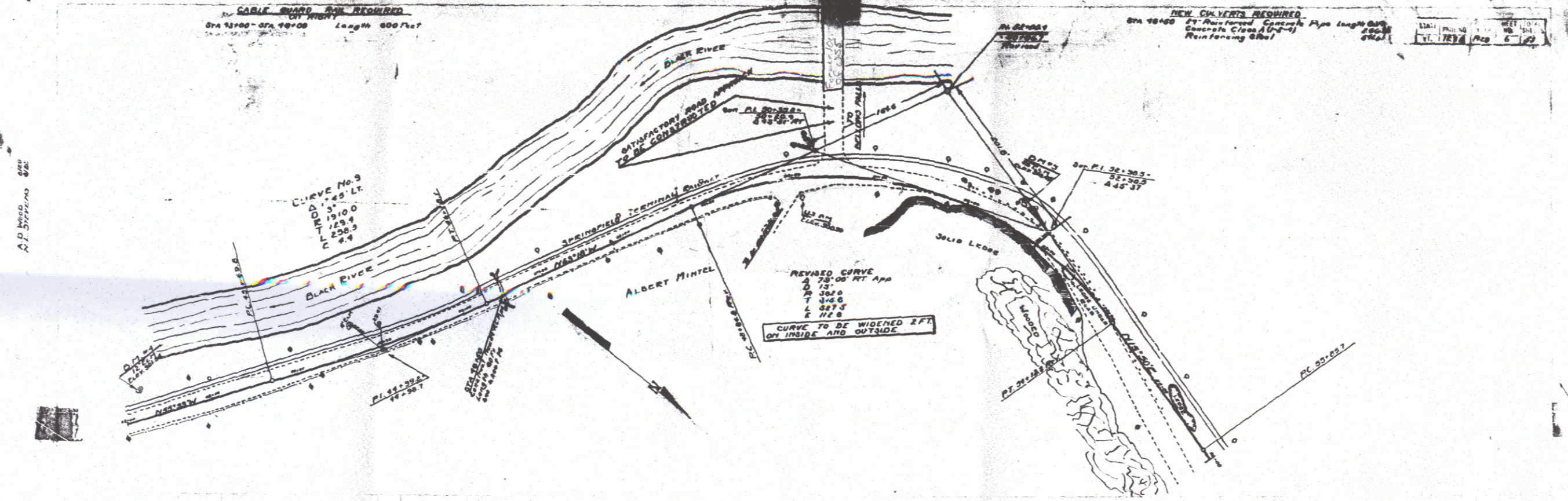
POOR ORIGINAL COPY



D.N. #3 SPIKE IN ROOT 24' ELM RT STA 30+15 ELEV 315.44

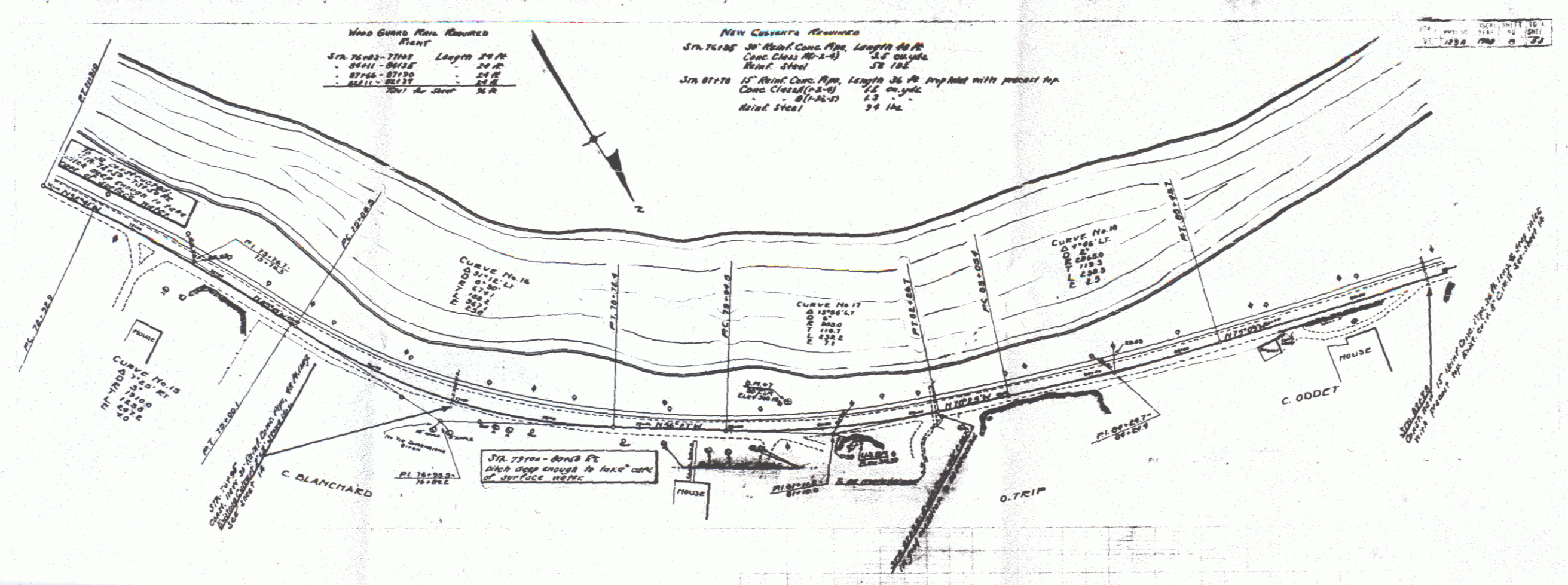
SHEET 123A OF 53

POOR ORIGINAL COPY



B.M. #1 SPIKE IN TRUNK 12" ELM LT. STA. 12+22 ELEV. 301.39
 B.M. #5 SPIKE IN ROOT 26" ELM LT. STA. 32+53 ELEV. 310.45

SERIES NO. 123-A
SHEET 6 OFF



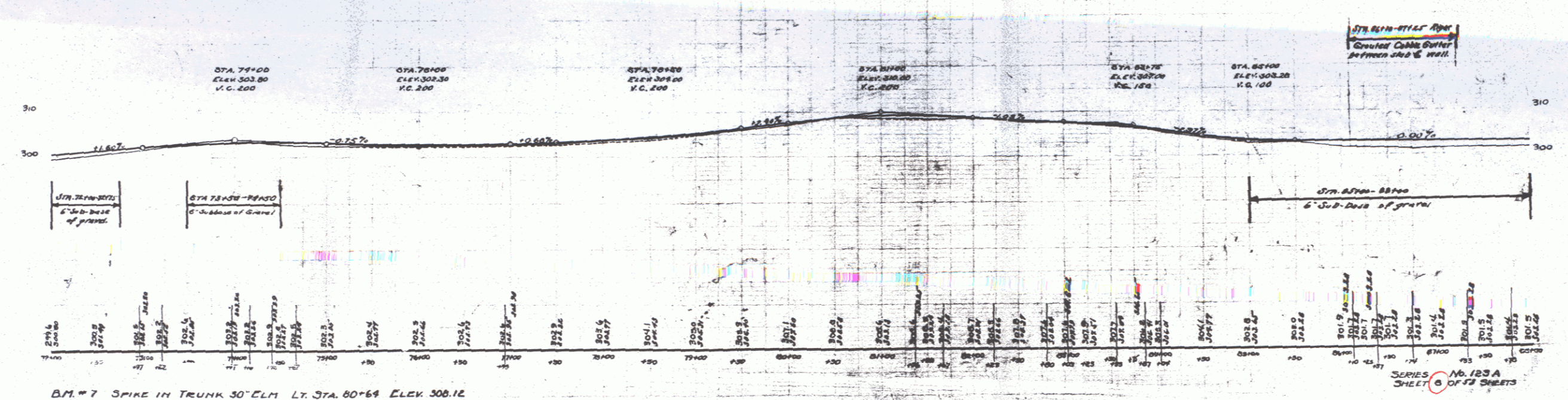
Wood Guard Rails Proposed

Station	Length
Sta. 76142-77142	100 ft
Sta. 87141-87142	1 ft
Sta. 87142-87143	1 ft
Sta. 87143-87144	1 ft
Sta. 87144-87145	1 ft

New Curves Proposed

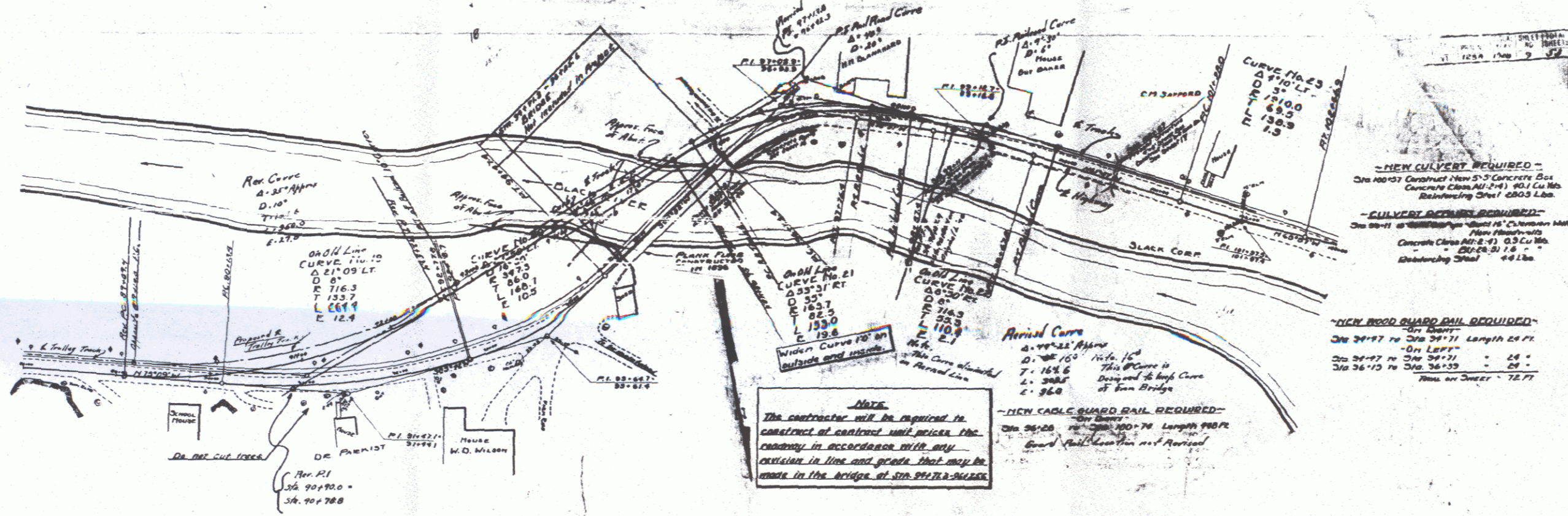
Sta. 76142	30' Radius Conc. Pipe, Length 40 ft	3.6' outside
	Conc. Class (A-2-A)	3/8" dia.
	Reinf. Steel	3/8" dia.
Sta. 87170	15' Radius Conc. Pipe, Length 36 ft	1.5' outside
	Conc. Class (A-2-A)	3/8" dia.
	Reinf. Steel	3/8" dia.

104-15171-101
 101-15171-102
 102-15171-103



SERIES No. 123 A
 SHEET 3 OF 12 SHEETS

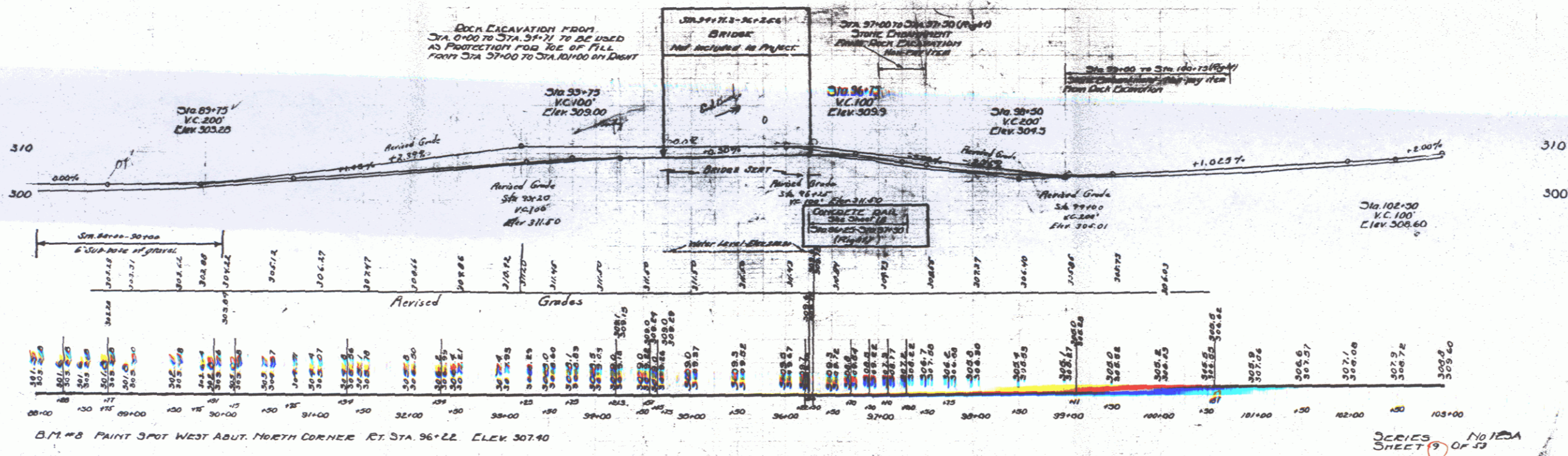
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NEW CULVERT REQUIRED -
 Sta. 100+51 to Sta. 101+51 Length 100 ft.
 Concrete Class (A1-24) 40.1 Cu Yds.
 Reinforcing Steel 6803 Lbs.

CULVERT REPAIRS REQUIRED -
 Sta. 99+11 to Sta. 99+11 Length 0 ft.
 Concrete Class (A1-24) 0.0 Cu Yds.
 Reinforcing Steel 0.0 Lbs.

NEW WOOD GUARD RAIL REQUIRED -
 Sta. 97+7 to Sta. 97+7 Length 0 ft.
 - On Left - 0 ft.
 Sta. 97+7 to Sta. 97+7 Length 0 ft.
 - On Left - 0 ft.
 Sta. 96+13 to Sta. 96+13 Length 0 ft.
 - On Left - 0 ft.



SERIES No. 12A
 SHEET 9 OF 13

POOR ORIGINAL COPY

- NEW WOOD GUARD RAIL REQUIRED -

Sta 103+30 To Sta 103+52	Length 22 FT
104-70	21
107-36	21
108-06	21
110-06	21
111-20	21
112-06	21
115-06	21
118-06	21

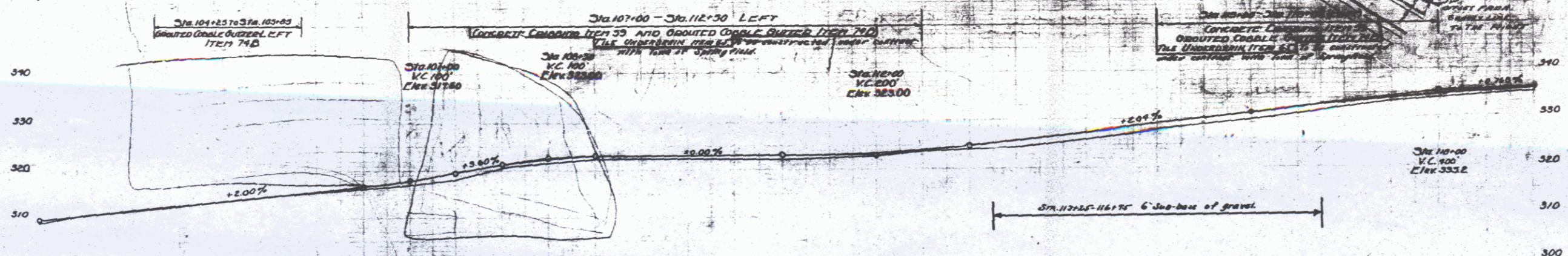
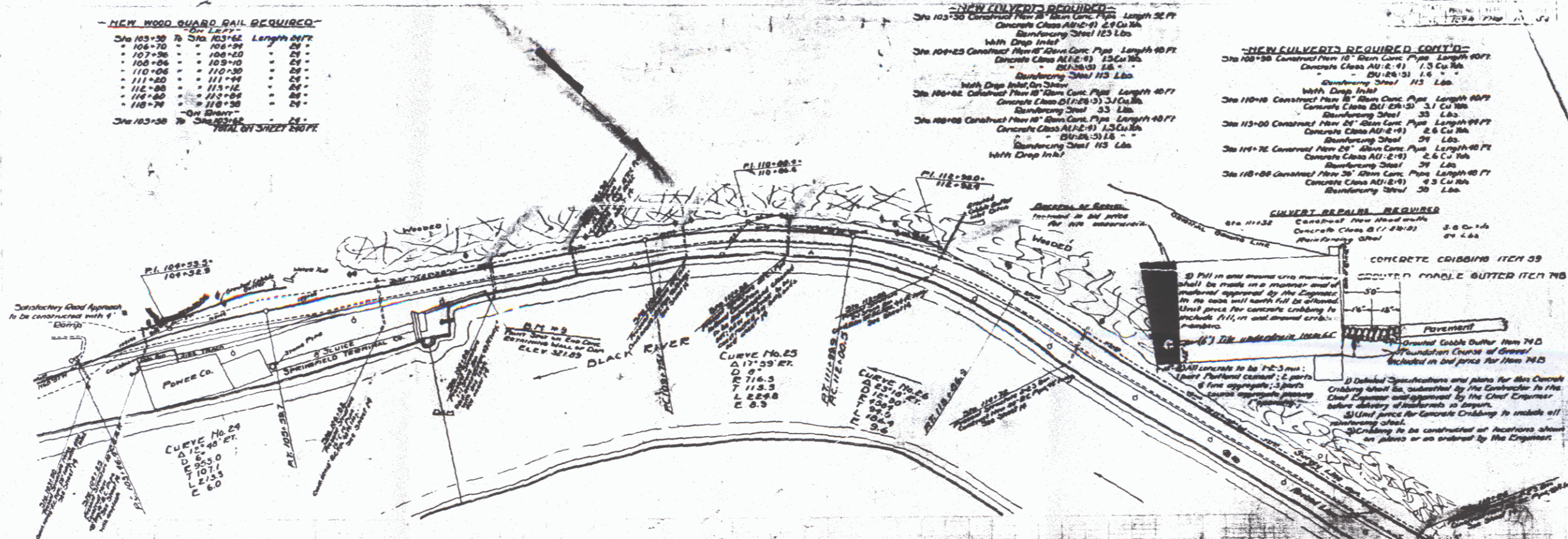
Sta 103+30 To Sta 103+52

- NEW VULVERTS REQUIRED -

Sta 103+30 Concrete Pipe 18" Dia Conc. Pipe Length 22 FT	Concrete Class AU(E-1) 2.8 Cu Yds
Sta 104+25 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 104+25 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 104+25 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 104+25 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 104+25 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds

- NEW VULVERTS REQUIRED CONT'D -

Sta 108+50 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 110+10 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 113+00 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 114+70 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds
Sta 118+00 Concrete Pipe 18" Dia Conc. Pipe Length 40 FT	Concrete Class AU(E-1) 13.0 Cu Yds

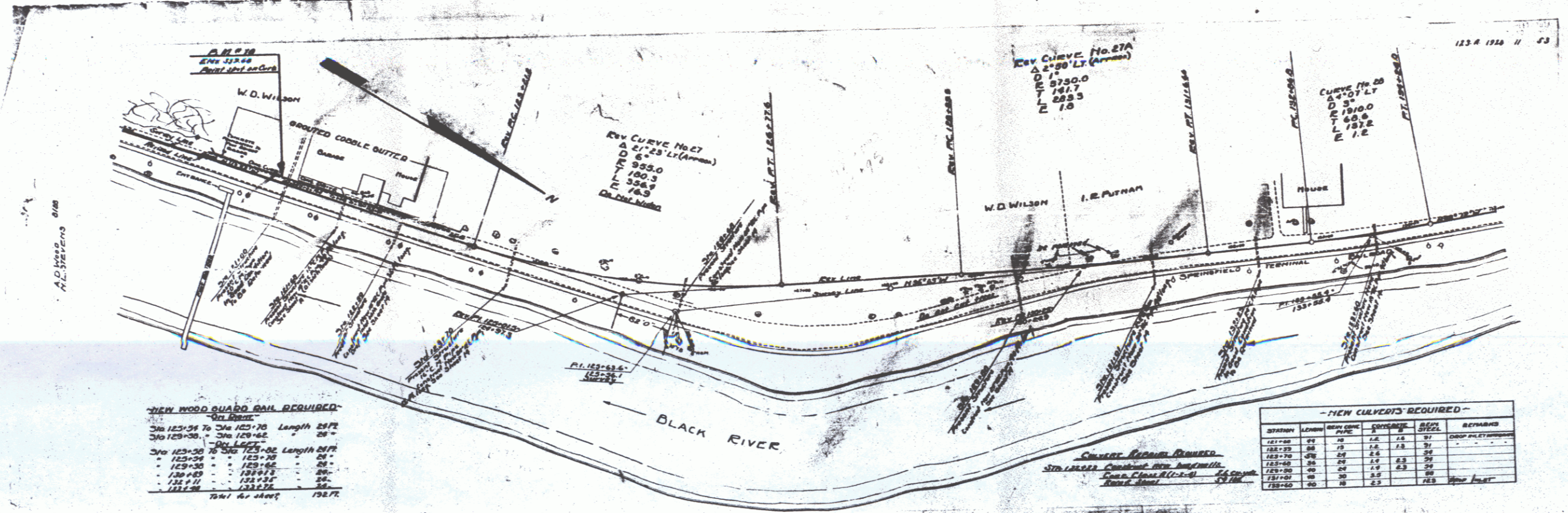


Station	Elevation
103+00	300.00
103+10	300.50
103+20	301.00
103+30	301.50
103+40	302.00
103+50	302.50
103+60	303.00
103+70	303.50
103+80	304.00
103+90	304.50
104+00	305.00
104+10	305.50
104+20	306.00
104+30	306.50
104+40	307.00
104+50	307.50
104+60	308.00
104+70	308.50
104+80	309.00
104+90	309.50
105+00	310.00
105+10	310.50
105+20	311.00
105+30	311.50
105+40	312.00
105+50	312.50
105+60	313.00
105+70	313.50
105+80	314.00
105+90	314.50
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107+50	322.50
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110+20	336.00
110+30	336.50
110+40	337.00
110+50	337.50
110+60	338.00
110+70	338.50
110+80	339.00
110+90	339.50
111+00	340.00

6" P. #3 PAINT SPOT ON END CONC. RETAINING WALL OF DAM Rt. Sta. 107+36 ELEV. 321.09

SERIES No. 125A
SHEET (A) OF 53

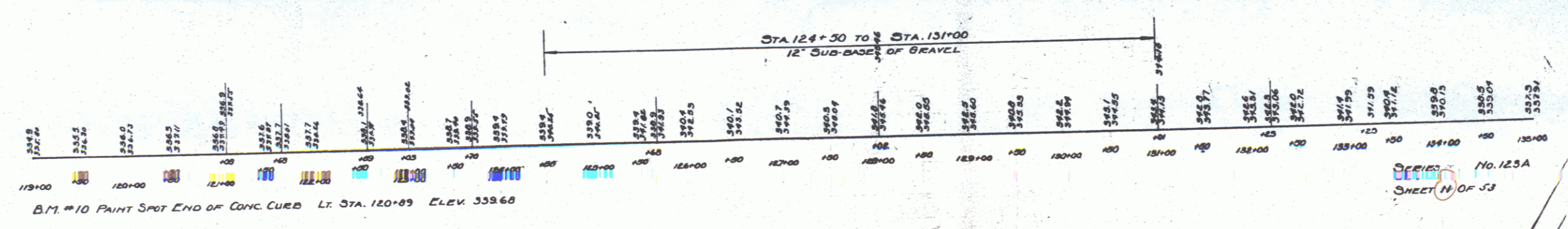
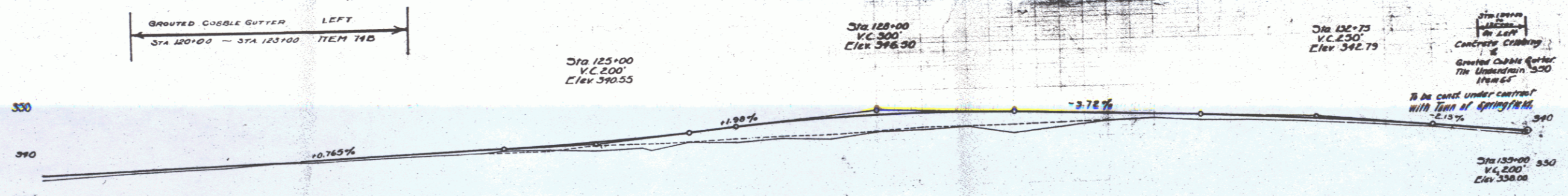
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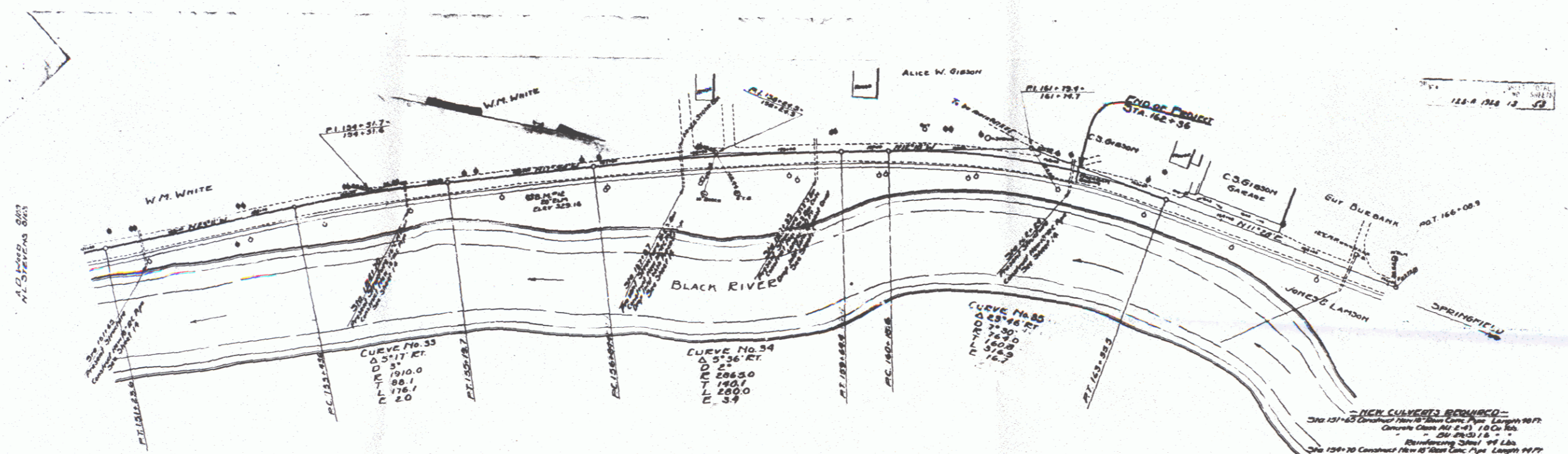


- NEW WOOD GUARD RAIL REQUIRED -
 Sta 123+56 to Sta 125+76 Length 220 FT
 Sta 129+00 to Sta 129+66 Length 66 FT
 Sta 125+00 to Sta 125+00 Length 0 FT
 Sta 125+00 to Sta 125+00 Length 0 FT
 Sta 125+00 to Sta 125+00 Length 0 FT
 Sta 125+00 to Sta 125+00 Length 0 FT
 Sta 125+00 to Sta 125+00 Length 0 FT
 Sta 125+00 to Sta 125+00 Length 0 FT
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 Sta 125+00 to Sta 125+00 Length 0 FT

- NEW CULVERTS REQUIRED -

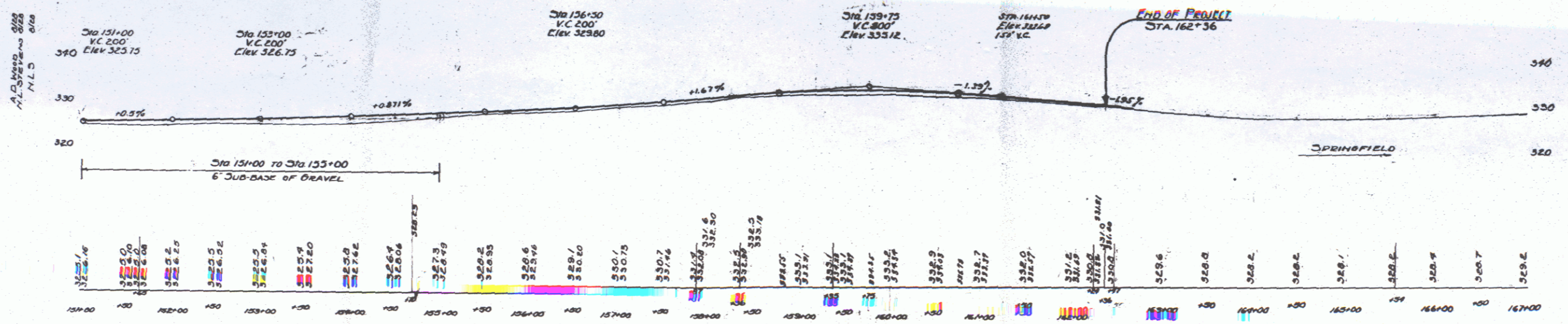
Station	Length	Span	Material	Notes
121+00	20	18"	Box	Under Highway
122+00	20	18"	Box	Under Highway
123+00	20	18"	Box	Under Highway
124+00	20	18"	Box	Under Highway
125+00	20	18"	Box	Under Highway
126+00	20	18"	Box	Under Highway
127+00	20	18"	Box	Under Highway
128+00	20	18"	Box	Under Highway
129+00	20	18"	Box	Under Highway
130+00	20	18"	Box	Under Highway





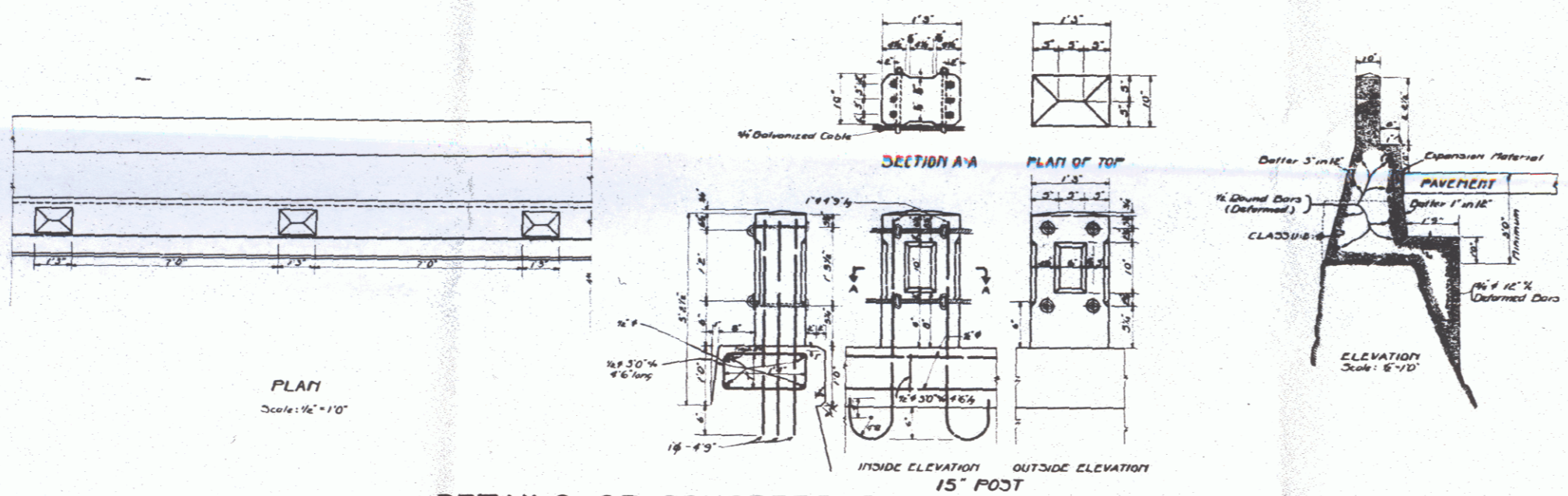
NEW WOOD GUARD RAIL REQUIRED
 On LEFT
 Sta 154+38 to Sta 154+64 Length 26 FT
 Sta 159+23 - - - 159+41 - - - 18 FT
 Sta 154+53 - - - 154+71 - - - 18 FT
TOTAL ON SHEET 72 FT

NEW CULVERTS REQUIRED
 Sta 151+43 Concrete Pipe 36" Dia. Pipe Length 16 FT
 Concrete Class A(1) E 4) 15 Cu Yds
 Reinforcing Steel 99 Lbs
 Sta 154+10 Concrete Pipe 36" Dia. Pipe Length 14 FT
 Concrete Class A(1) E 4) 13 Cu Yds
 Reinforcing Steel 78 Lbs
 Sta 157+87 Concrete Pipe 36" Dia. Pipe Length 32 FT
 Concrete Class A(1) E 4) 30 Cu Yds
 Reinforcing Steel 127 Lbs
 Sta 159+35 Concrete Pipe 36" Dia. Pipe Length 14 FT
 Concrete Class A(1) E 4) 15 Cu Yds
 Reinforcing Steel 81 Lbs
 Sta 162+24 Concrete Pipe 36" Dia. Pipe Length 10 FT
 Concrete Class A(1) E 4) 10 Cu Yds
 Reinforcing Steel 57 Lbs
 Sta 162+36 Concrete Pipe 36" Dia. Pipe Length 10 FT
 Concrete Class A(1) E 4) 10 Cu Yds
 Reinforcing Steel 57 Lbs



B.M. #12 SPIKE IN ROOT 20' ELM Rt. STA. 156+00 ELEV. 329.16

SERIES No. 123A
 SHEET 13 OF 53



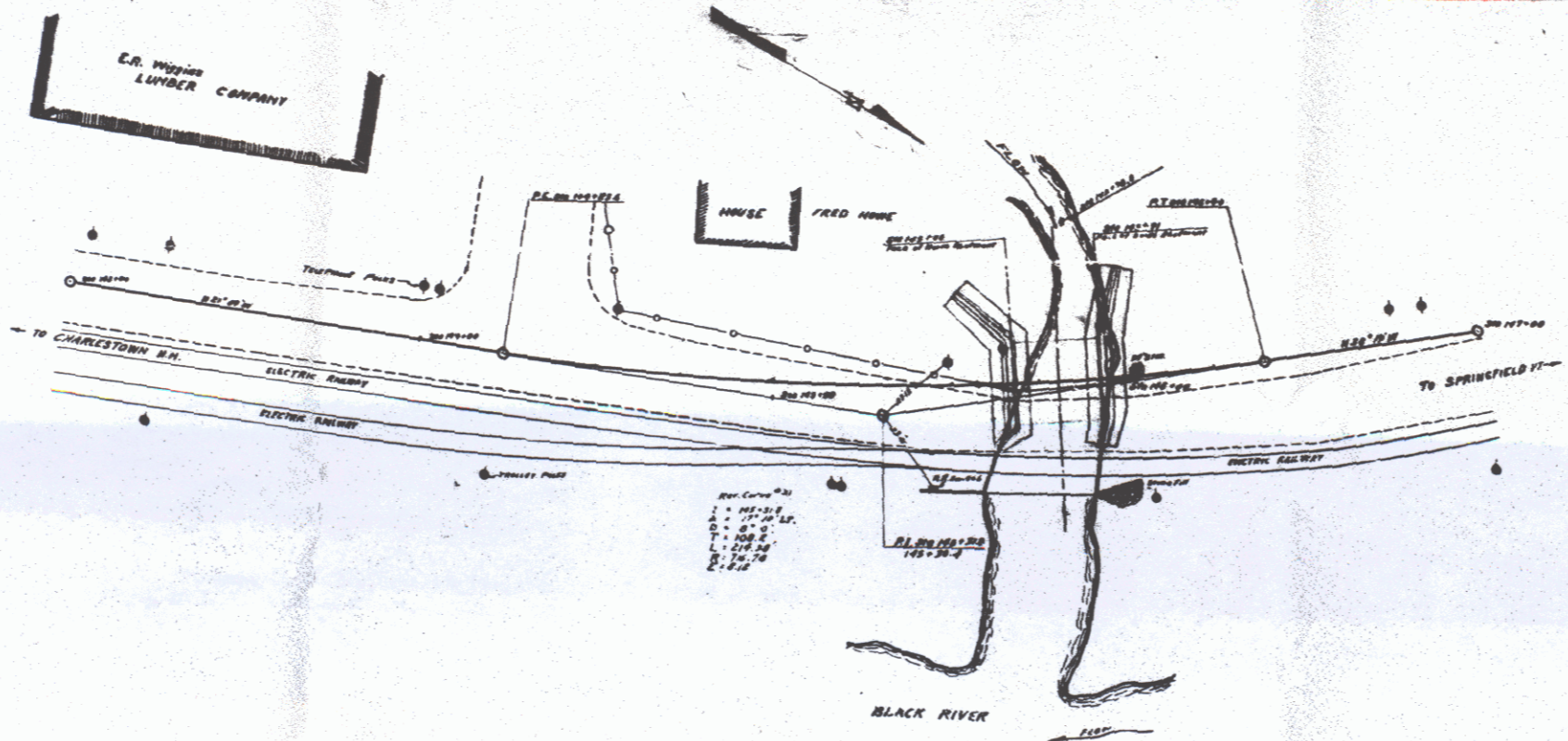
DETAILS OF CONCRETE RAIL — STATIONS 96+25—97+30 ON RIGHT

TO BE PAID FOR UNDER ITEM CONCRETE CLASS (1-2-4) WHICH SHALL INCLUDE FURNISHING AND INSTALLING OF CABLE RAILS.

DETAILS OF REINFORCED CONCRETE RAIL

	Surveyed by	Wood
	Designed by	
	Drawn by	
	Checked by	
	Scale	No. 163A Sheet (10) of 53 Sheets

Sheet 19

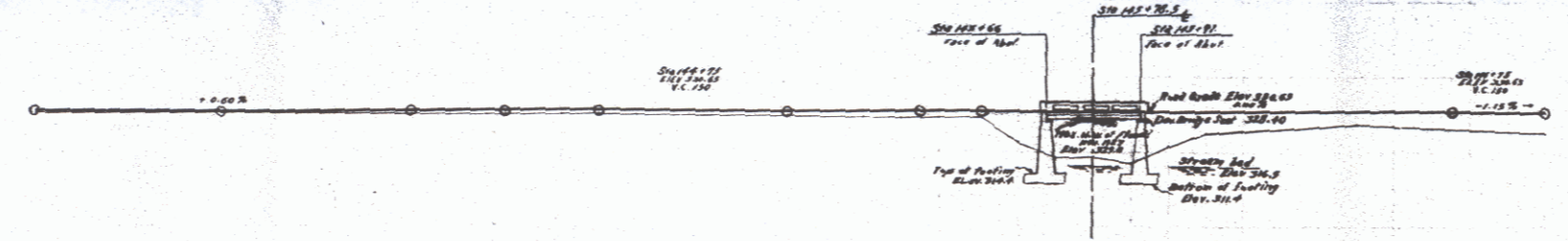


SHEETS TO BE USED
 318 No. 10-22
 318 No. 10-23
 318 No. 10-24
 318 No. 10-25
 318 No. 10-26

NOTE:
 Dimensions shown will be checked
 by the contractor at his own expense
 and he will be held responsible for any
 errors.

QUANTITIES
 Concrete Class A (1-2-3) 32 cu yd
 Concrete Class B (1-2-3-4) 161 cu yd
 Structure Excavation 450
 Reinforcing Steel 10,000 lbs

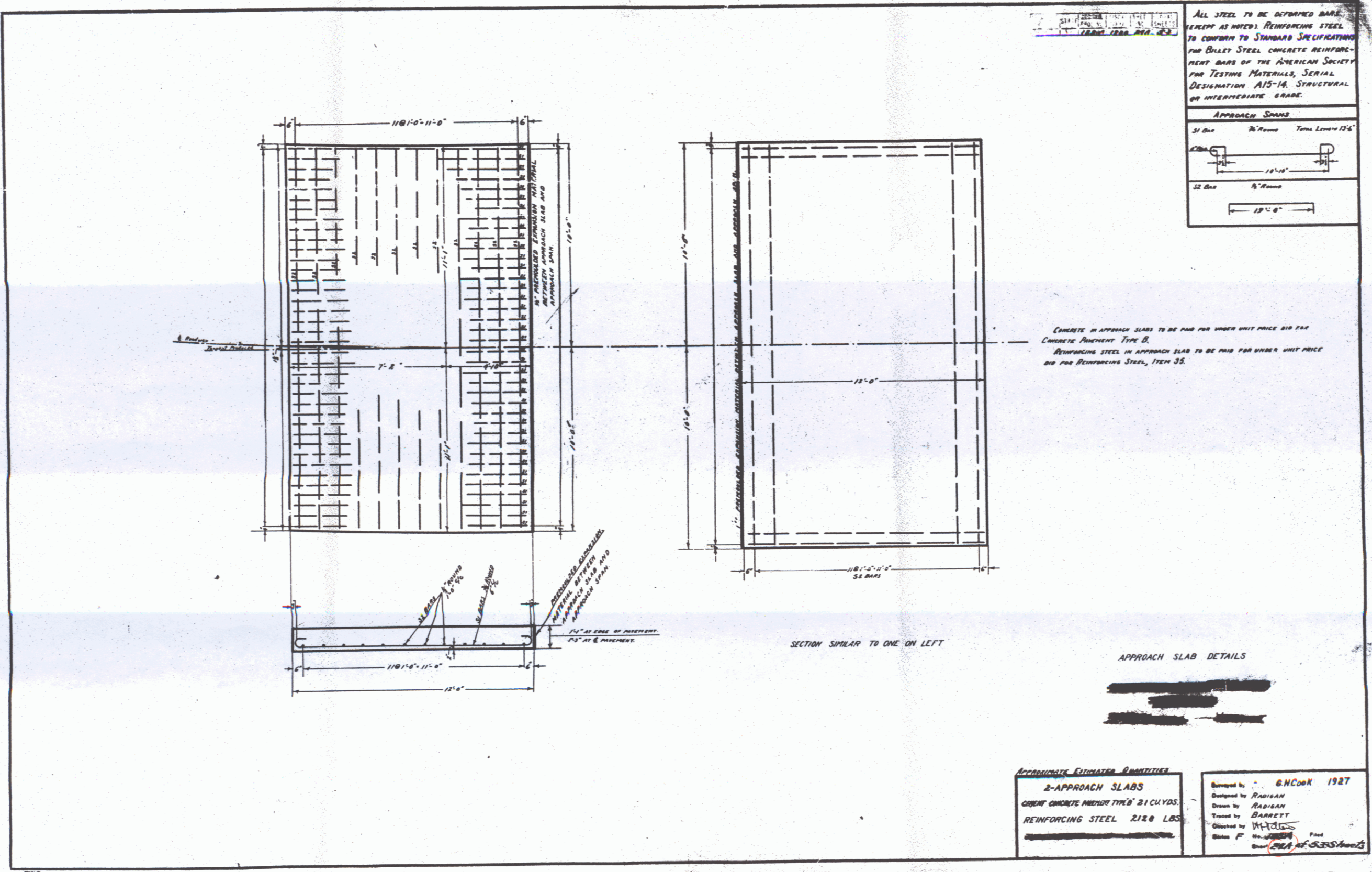
8.1.10
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

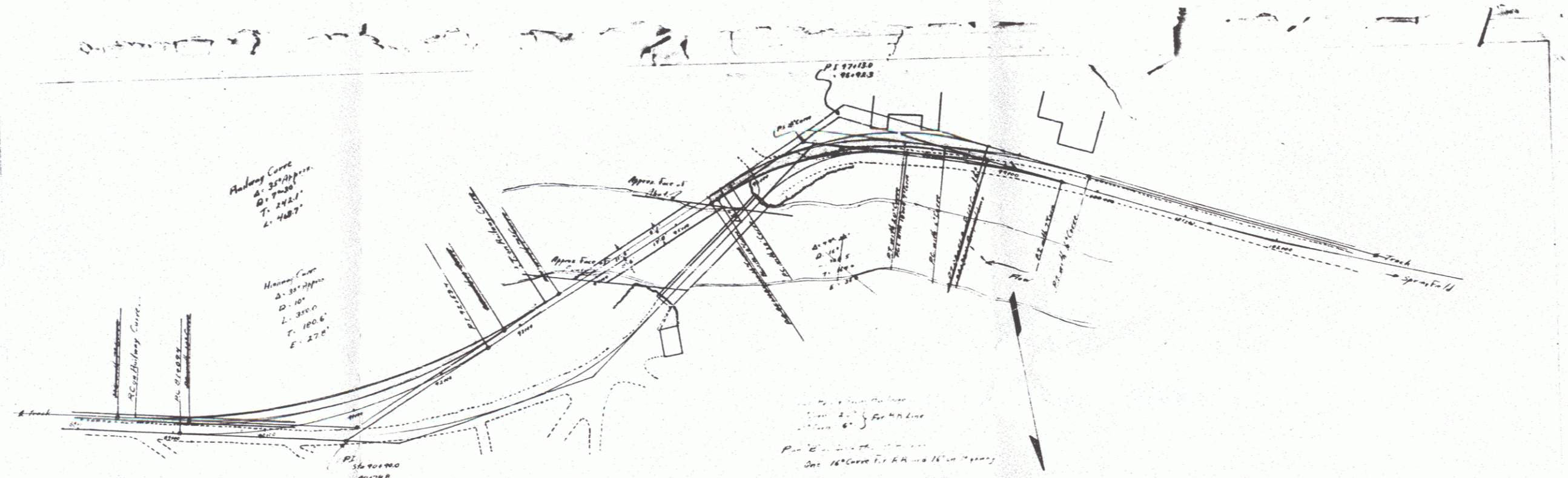


SPRINGFIELD, VT.
BRIDGE PROJECT
NO. 123 A



Scale
 1" = 20'
 VER. 1" = 25'
 Sheet 19
 SERIES NR 123A





Auxiliary Curve
 Δ = 30° 00' 00"
 R = 100.0
 T = 180.6
 E = 170.0

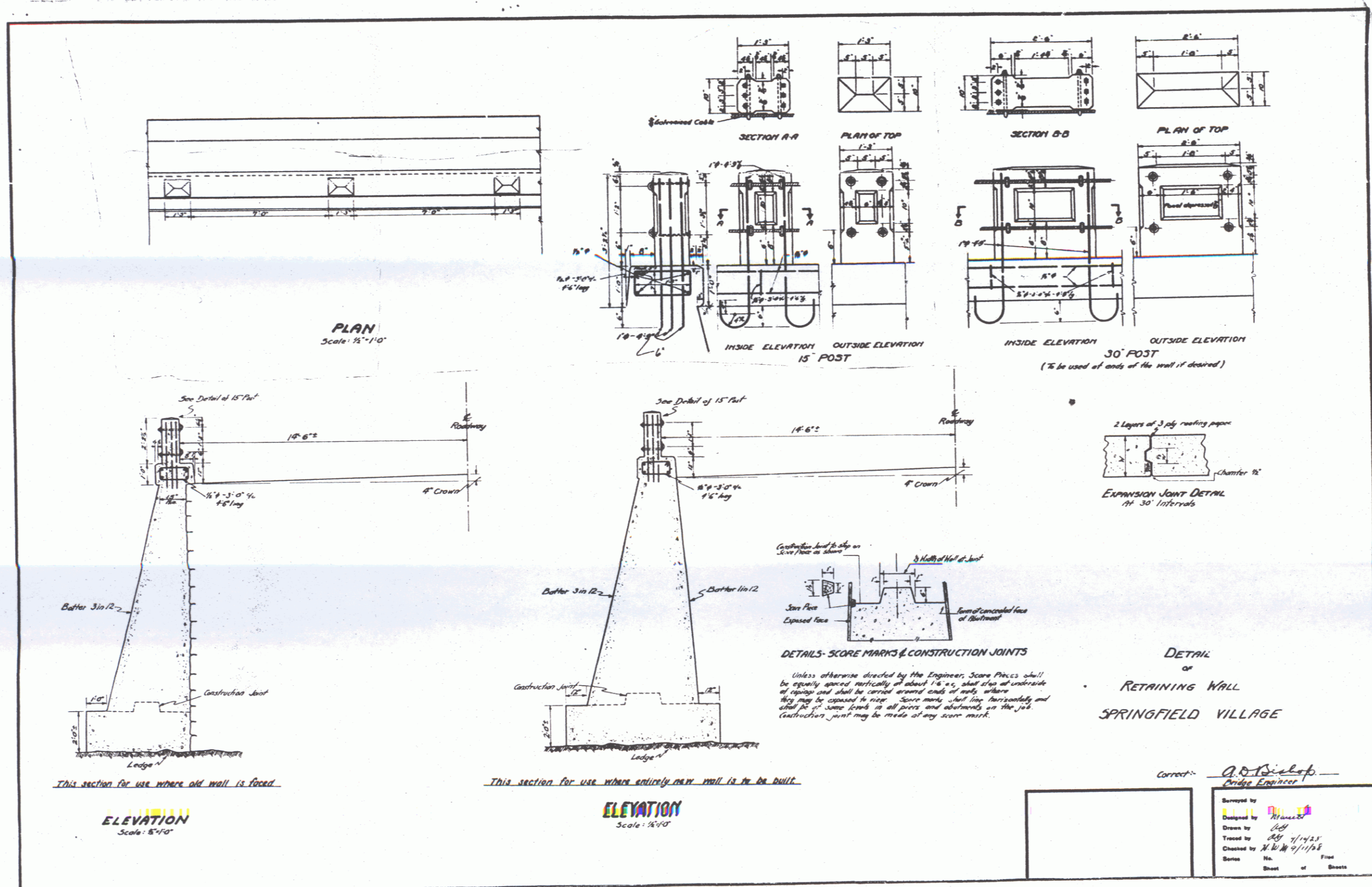
Main Curve
 Δ = 16° 00' 00"
 R = 100.0
 T = 180.6
 E = 170.0

Original Plan from 1910
 Proposed Plan from 1910
 Proposed Plan from 1910
 Proposed Plan from 1910

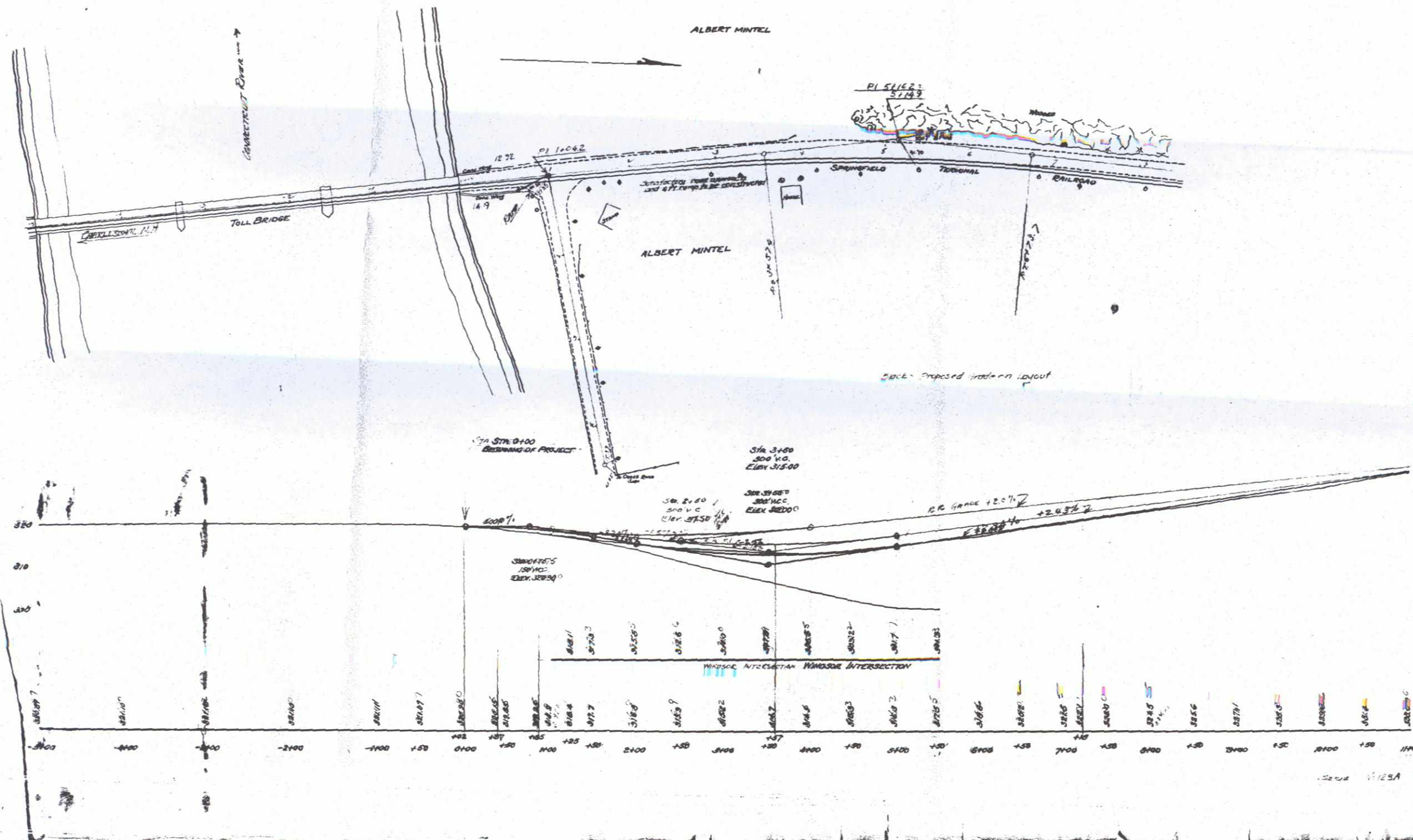
Proposed Plan from 1910
 Proposed Plan from 1910
 Proposed Plan from 1910
 Proposed Plan from 1910

FOR GRADE SEE LAYOUT SHEET No. 9 of 123A

SPRINGFIELD PROJECT 123A
 GOULD'S MILL BRIDGE
 STATE HIGHWAY DIST.
 1910-1911
 TOWN OF SPRINGFIELD



242
19



240

20