

**COUNTY HIGHWAY**  
**BUREAU OF CONSTRUCTION**  
**MASSILLON - MILLERSBURG ROAD**  
**ROAD No. 158 SEC. D RES.**  
**HOLMES COUNTY**  
**SALT CREEK TWP. FEBRUARY 1923**

INDEX OF SHEETS

Title Page	p. 1
Typical Cross-section	p. 2
Plans & Profile	p. 3-7
Cross sections	p. 8-21
Bridge	p. 22-23

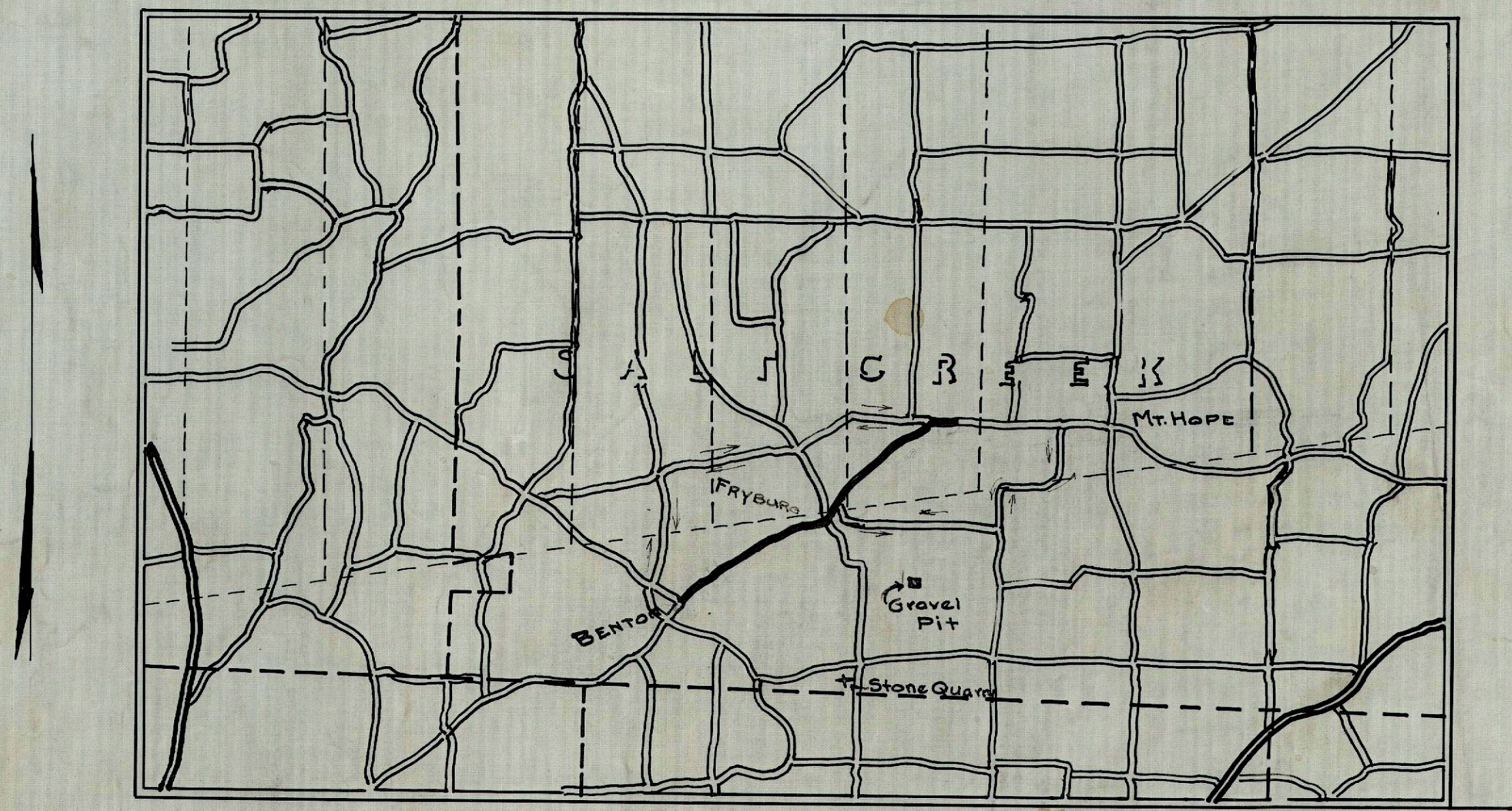
The Standard Specifications of the State of Ohio, Division of Highways, in force on date of contract will govern improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as shown on the plan and estimates.

Approved: \_\_\_\_\_  
 Date: \_\_\_\_\_ County Surveyor.

We, the Commissioners of Holmes County hereby approve these plans and certify that the right-of-way 60 feet wide is available for the construction, maintenance & repair of highway

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Date: \_\_\_\_\_ County Commissioners

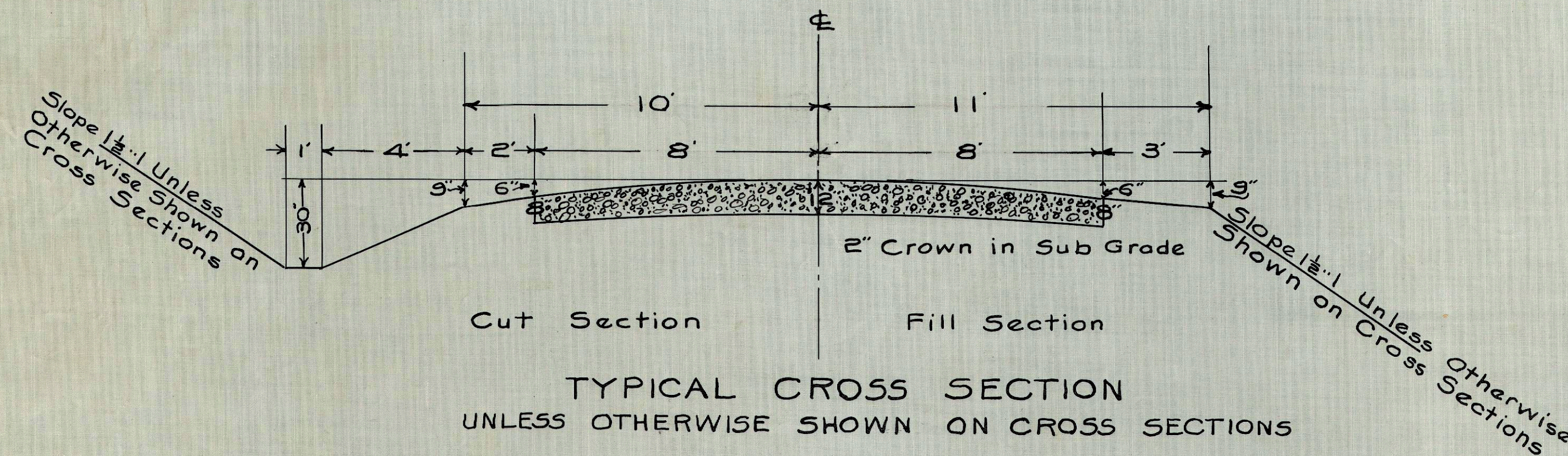


LOCATION PLAN

PORTION TO BE IMPROVED ———  
 DETOURS SHOWN THUS - - - - -

SCALES  
 Plan 1" = 100'  
 Profile (Vert.) 1" = 10'  
 Profile (Hor.) 1" = 100'  
 Cross Sections 1" = 5'



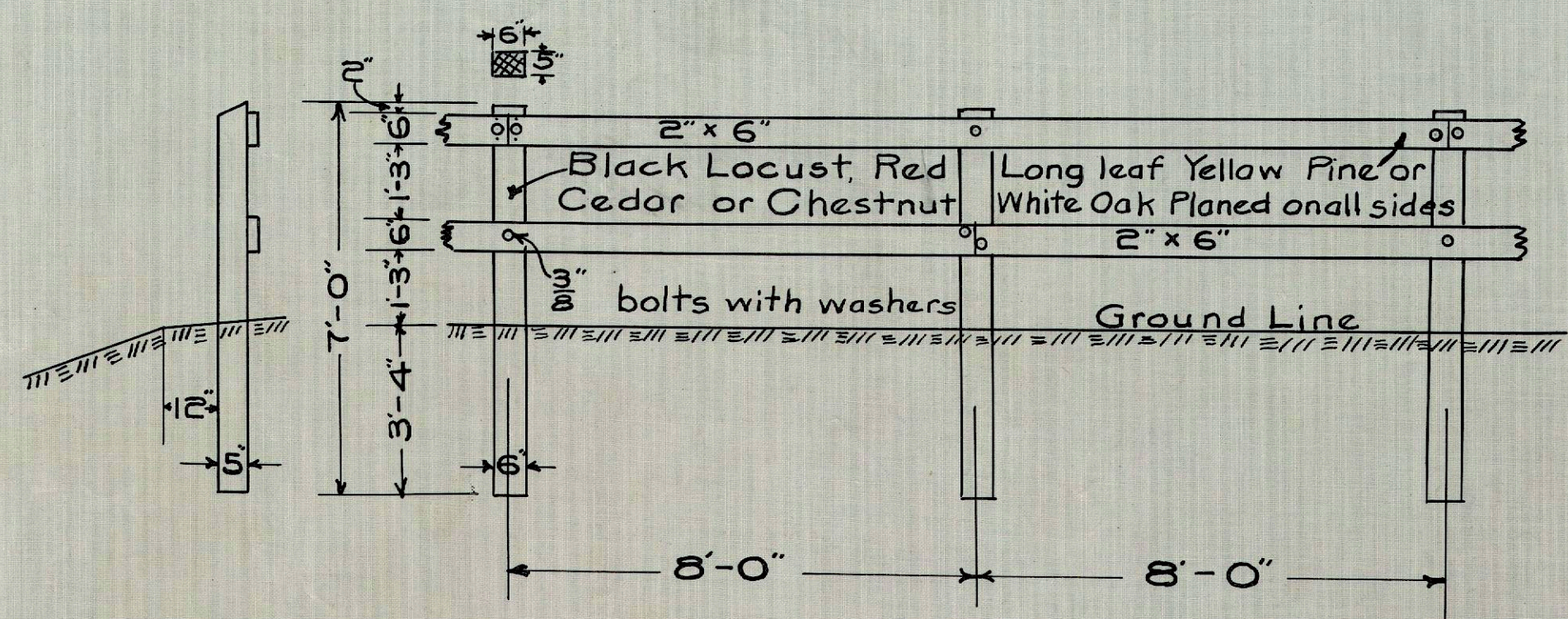


TYPICAL CROSS SECTION  
 UNLESS OTHERWISE SHOWN ON CROSS SECTIONS

NOTICE

Trenches for Sectional C.I.P. must be excavated to exact grade, and excavation must be for pipe bells to allow the full length of the pipe to be in contact with the earth. Back fill around sectional C.I.P. must be made by hand and thoroughly tamped.

All material used shall conform to the standard Specifications of the State of Ohio, Division of Highways, in force on date of Contract. See sheet No 24 for Material Items to be used.



BILL OF MATERIALS FOR TWO PANELS			
2	Wood Rails	2'6"	16'
2	Posts	5'6"	7'
6	Carriage Bolts	3/4"	9'
6	Washers	1/4"	9'
071b	Spikes 40d		5'

Note: All surfaces in contact to be painted before assembling, and all exposed surfaces to have two (2) coats of white lead and linseed oil paint. Posts to be set vertical, in line parallel to grade line. Posts to be cut at top as shown on plan. Rails to be secured to post as shown, without splitting.

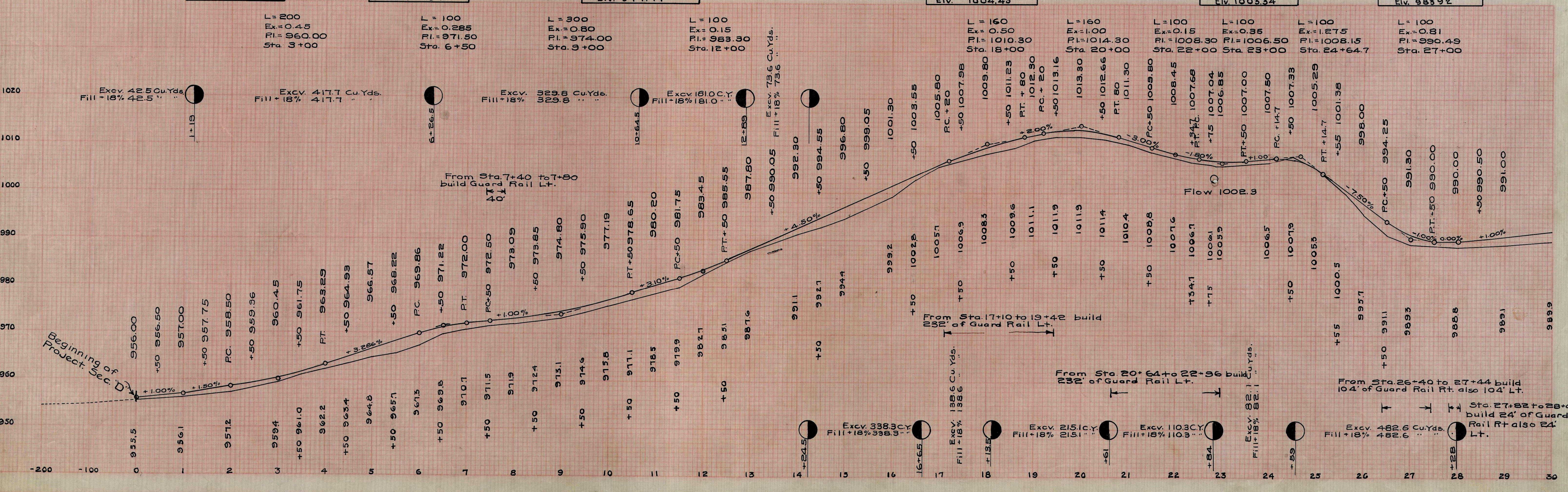
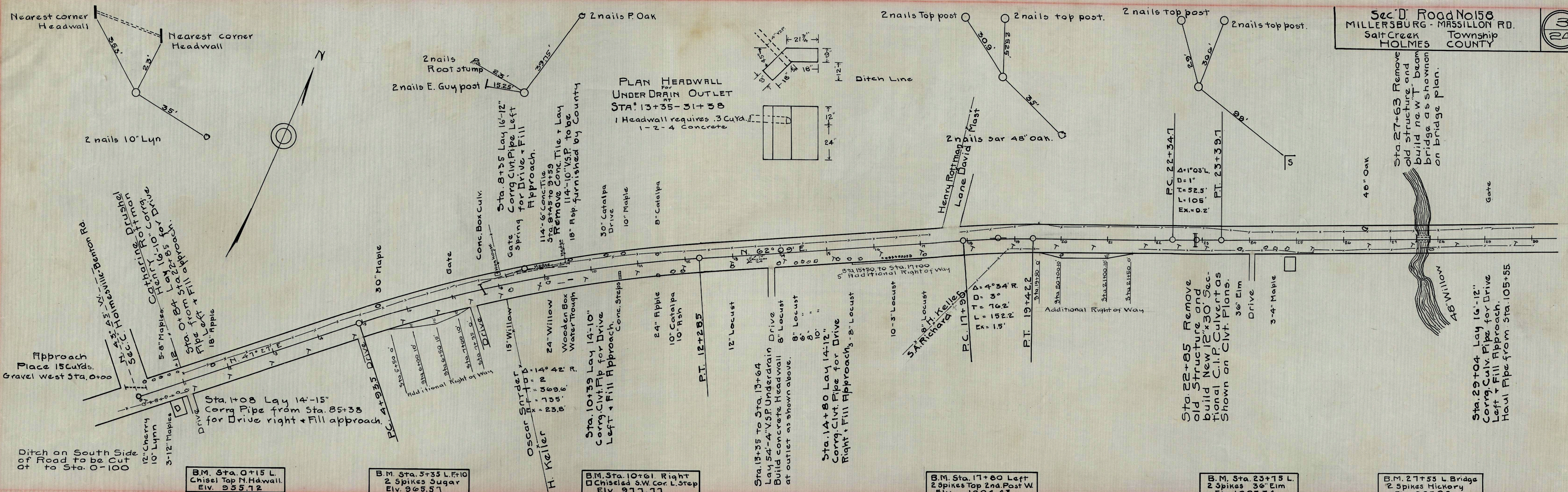
In order to secure proper alignment and grade bolt holes shall be bored and the top of posts trimmed after the posts are set and the rails nailed to them.

Before setting, post shall be treated from a point one foot below surface line to a point one foot above surface line when set, with a coat of creosote oil or carbolienum applied at a temperature of 250° to 300° fahrenheit.

TYPE-E- GUARD RAIL

It is assumed that a compacted gravel pavement of 8" at the sides and 12" at the center will require 10" of loose gravel as dumped on the grade to make 8" compacted; and 15" loose gravel to make 12" compacted. Side forms 10" high will be required. It will not be permissible to use blocks on the forms to secure proper height. Loose gravel must be spread 10" at the sides and 15" at the center.

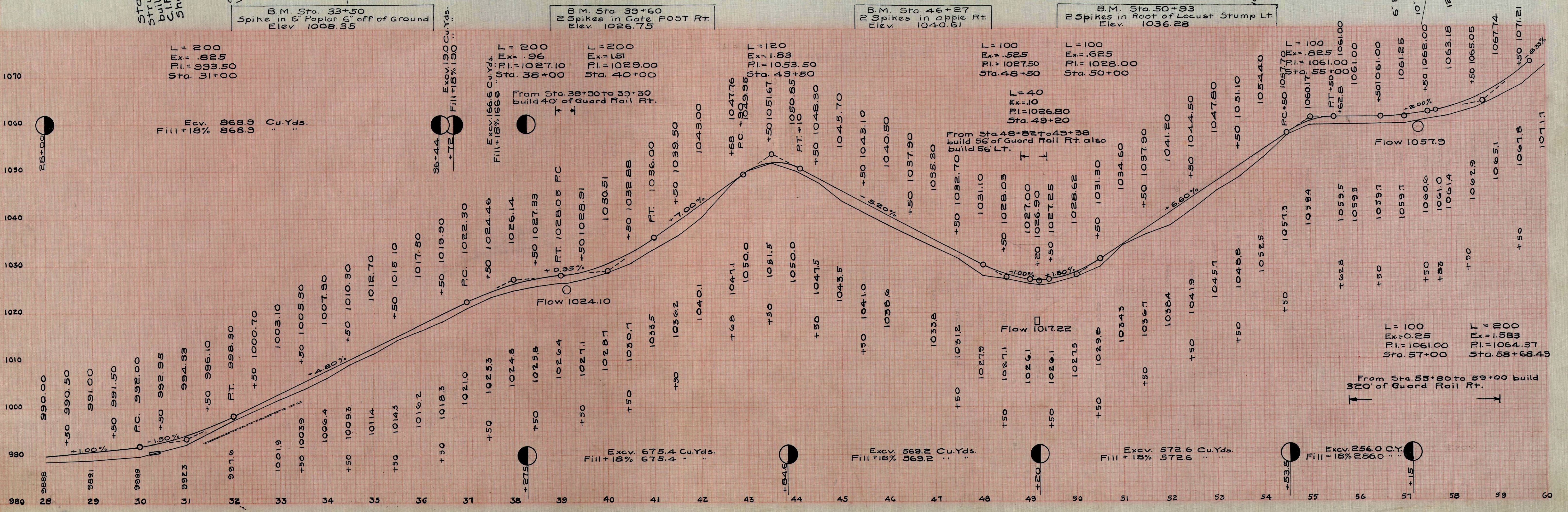
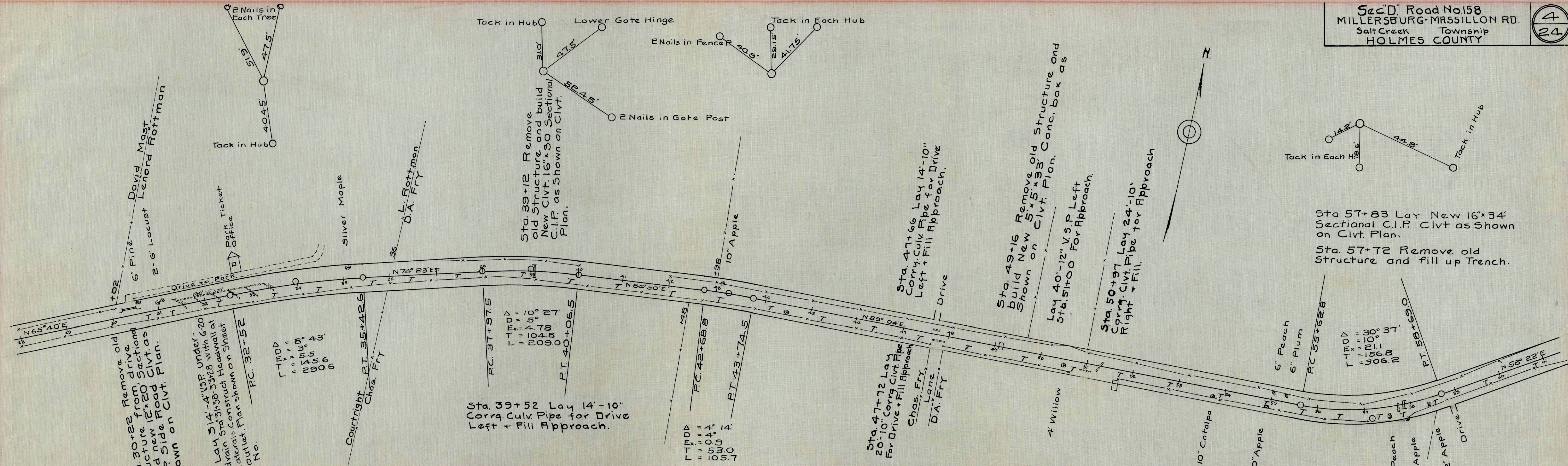




PLAN  
DATE: 10/10/50  
BY: [Signature]

PROFILE  
DATE: 10/10/50  
BY: [Signature]

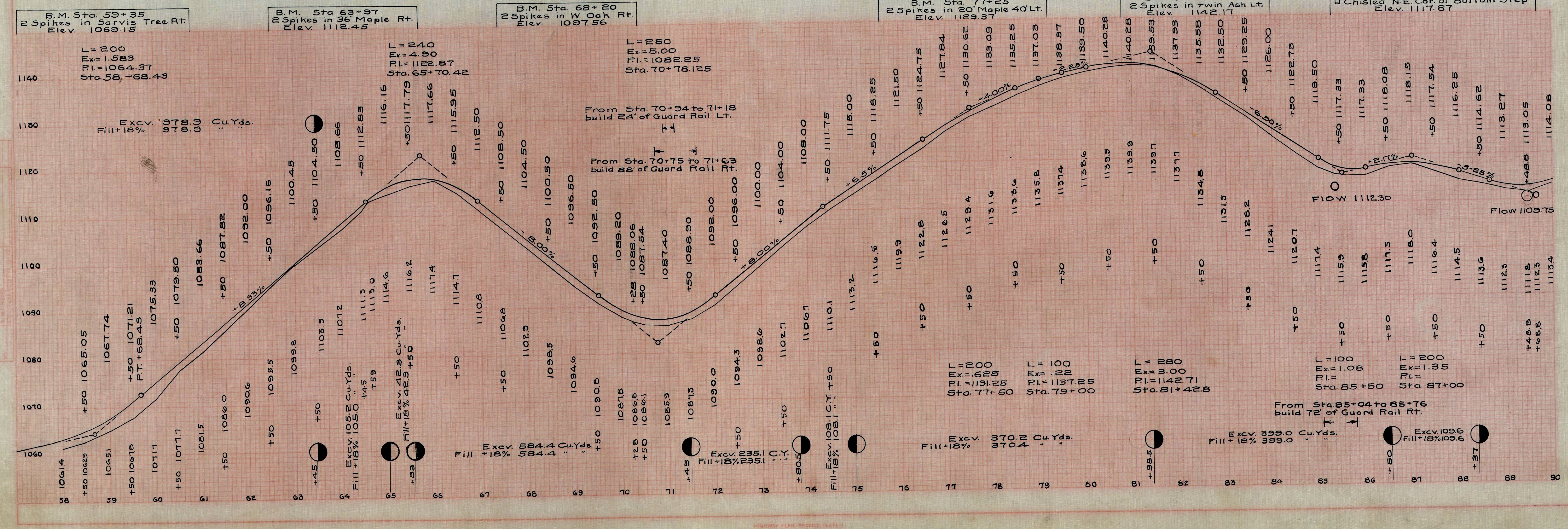
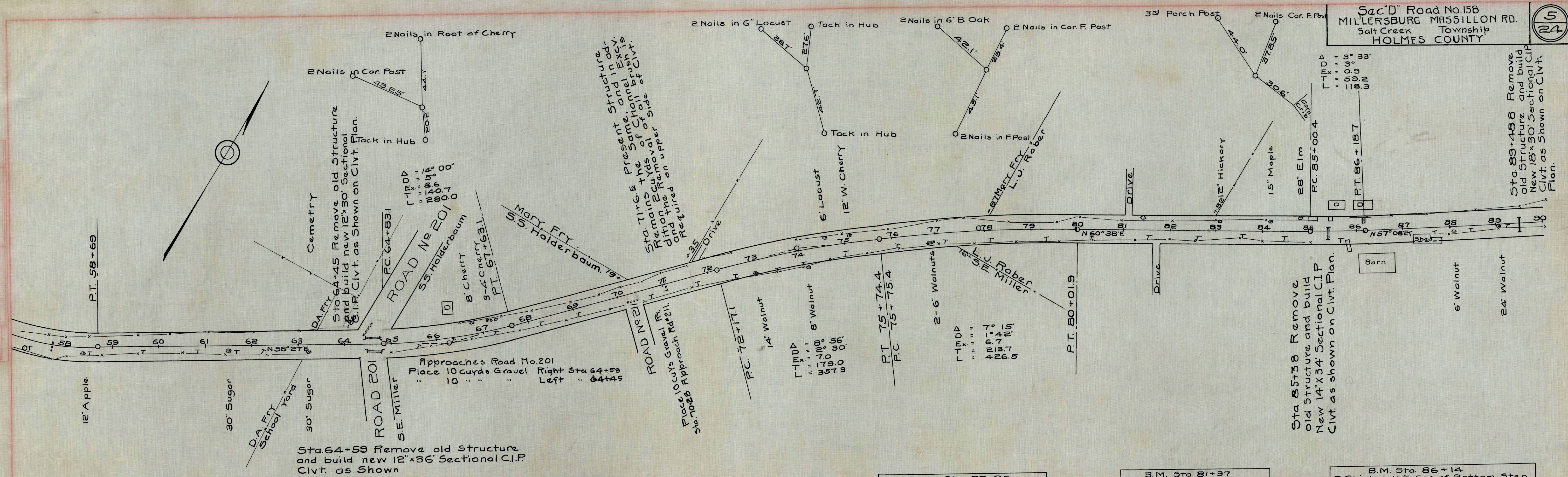




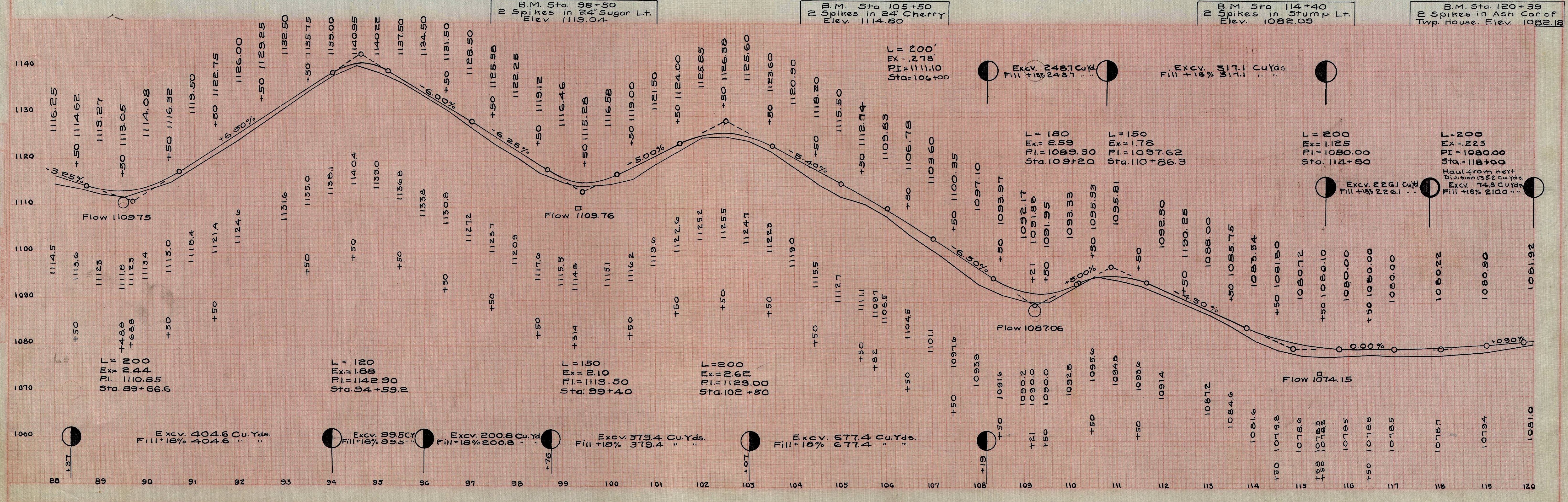
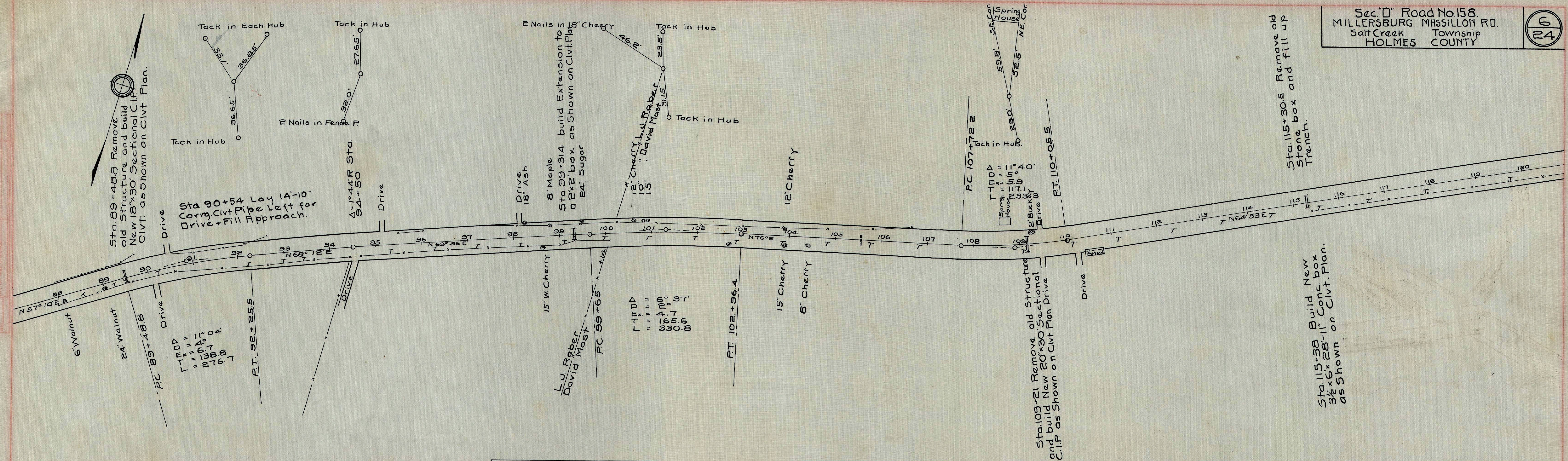
PLAN  
MILLERSBURG-MASSILLON RD.  
SALT CREEK TWP.  
HOLMES COUNTY, OHIO

PROFILE  
MILLERSBURG-MASSILLON RD.  
SALT CREEK TWP.  
HOLMES COUNTY, OHIO









Sta. 115+30 Remove old Stone box and fill up Trench.

Sta. 115+38 Build New 3 1/2 x 6 x 28-11 Conc. box as Shown on Cvt. Plan.

Sta. 109+21 Remove old Structure and build New 20x30 Sectional C.I.P. as Shown on Cvt. Plan Drive

Sta. 90+54 Copy Cvt. Pipe Left for Drive + Fill Approach.

Sta. 89+48 Remove old Structure and build New 18x30 Sectional C.I.P. as Shown on Cvt. Plan.

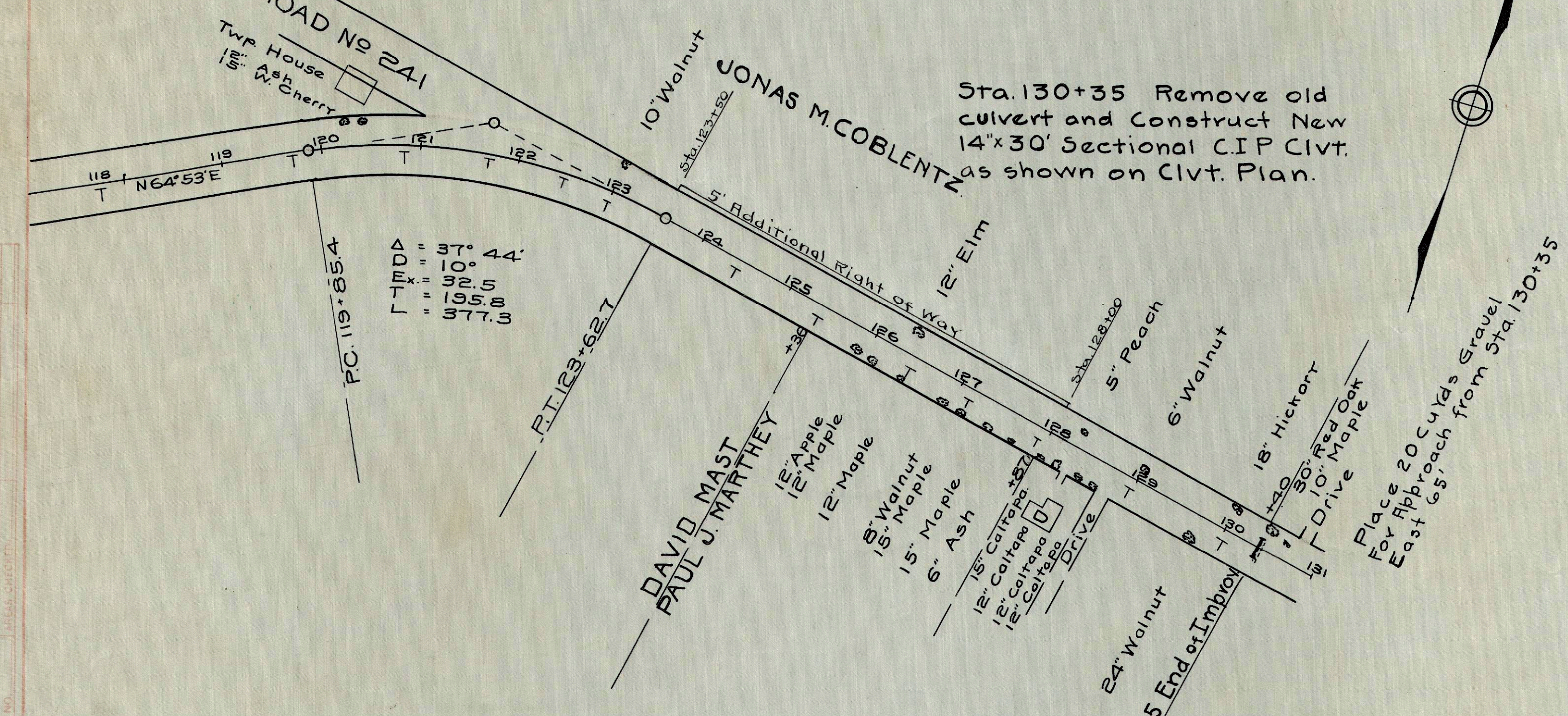
PLAN  
DATE: 10/1/50  
BY: [Signature]  
CHECKED: [Signature]  
SCALE: AS SHOWN

PROFILE  
DATE: 10/1/50  
BY: [Signature]  
CHECKED: [Signature]  
SCALE: AS SHOWN



At road No 241 Place 815g. Yds. of gravel for approach as shown on cross sections. Also place 20Cu. Yds of gravel at Rd. No 241 for approach as directed by Engineer

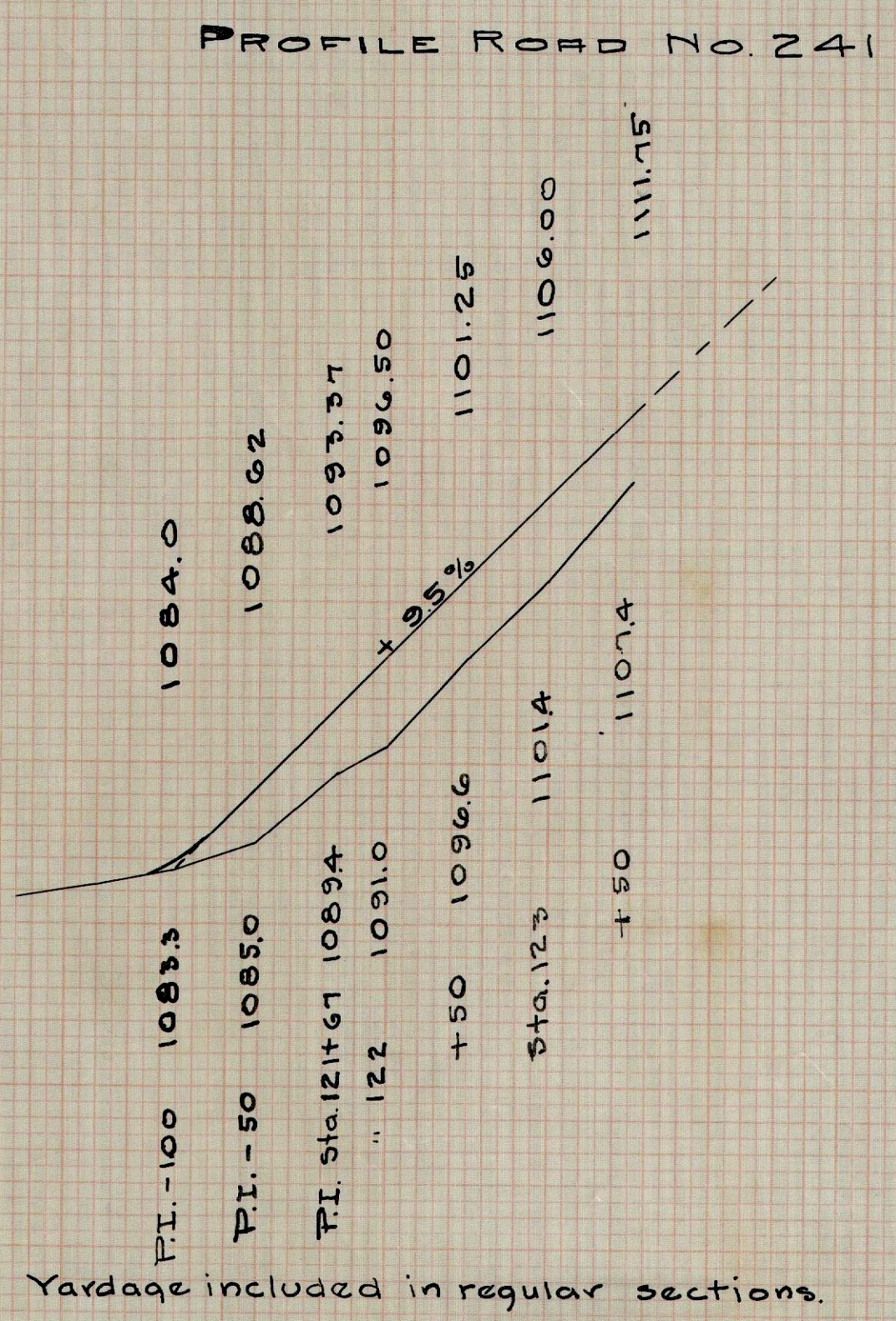
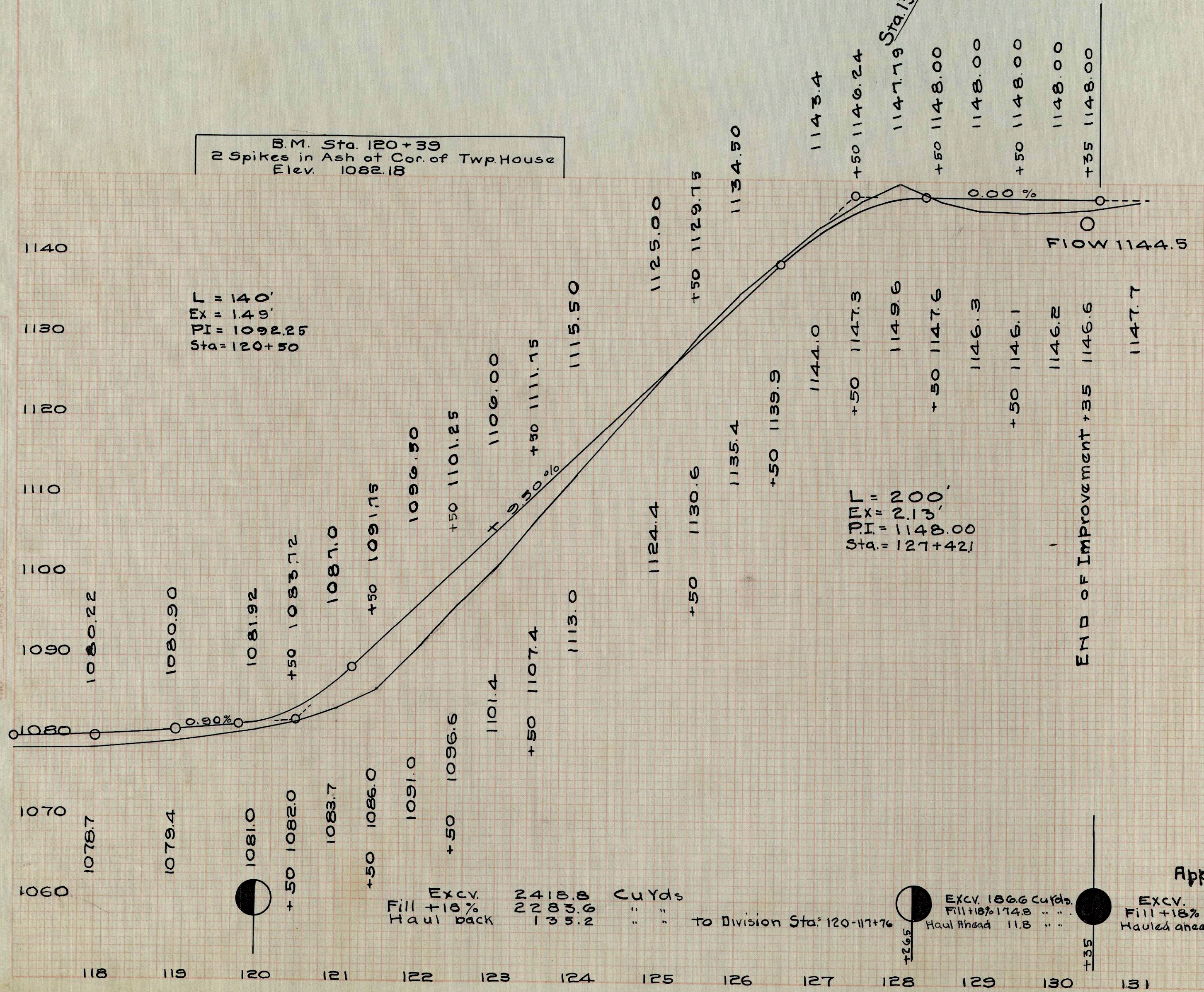
Sta. 130+35 Remove old culvert and Construct New 14'x30' Sectional C.I.P. CVT. as shown on CVT. Plan.



$\Delta = 37^{\circ} 44'$   
 $DD = 10'$   
 $LT Ex = 32.5$   
 $LT = 195.8$   
 $LT = 377.3$

B.M. Sta. 120+39  
 2 Spikes in Ash at Cor. of Twp House  
 Elev. 1082.15

B.M. Sta. 128+30  
 N.W. Cor. of Stone Step Residence Rt.  
 Elev. 1150.15



Exc. 2218.8 Cu Yds  
 Fill +10% 2418.8  
 Haul back 135.2

Exc. 1866 Cu Yds  
 Fill +10% 2052.6  
 Haul ahead 118

Exc. 12.2 Cu Yds.  
 Fill +10% 24.0  
 Hauled ahead 11.8

FINAL SURVEY  
 NOTED BOOK  
 NO. 100

ORIGINAL SURVEY  
 NOTED BOOK  
 NO. 100

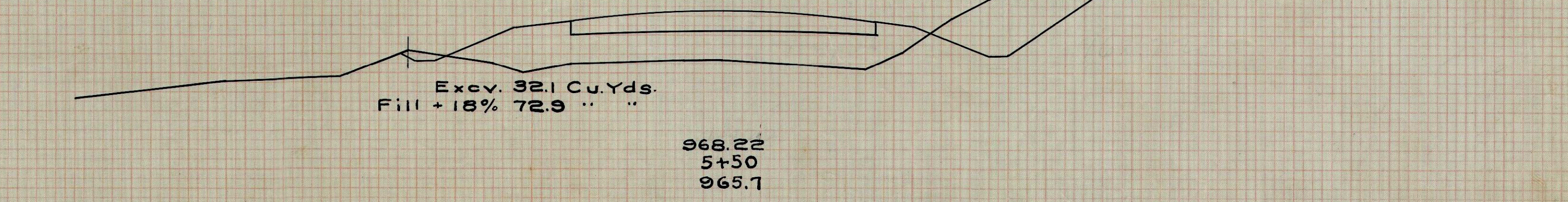
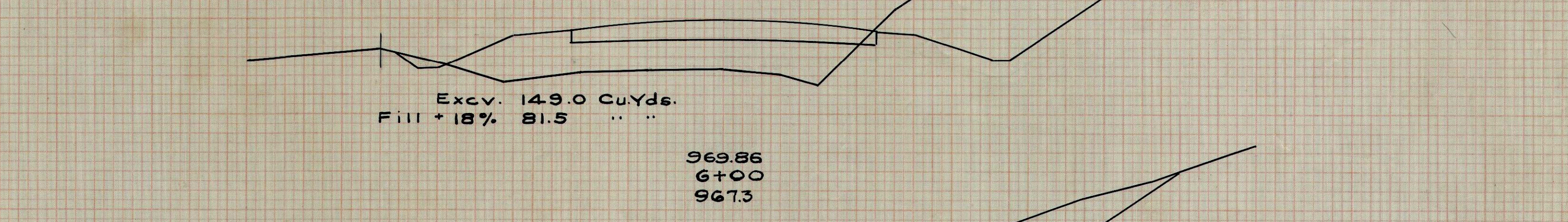
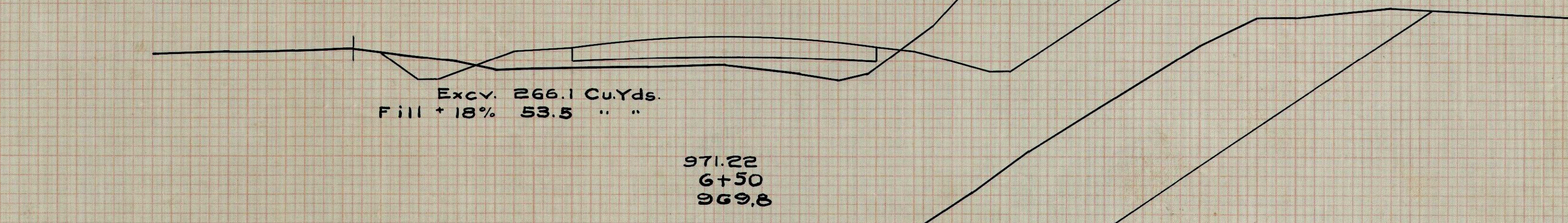
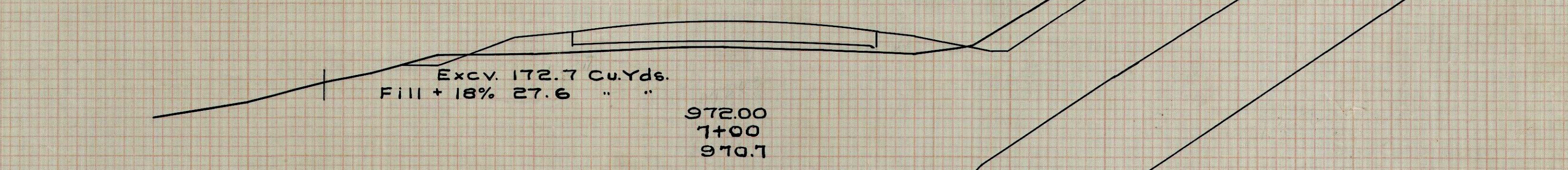
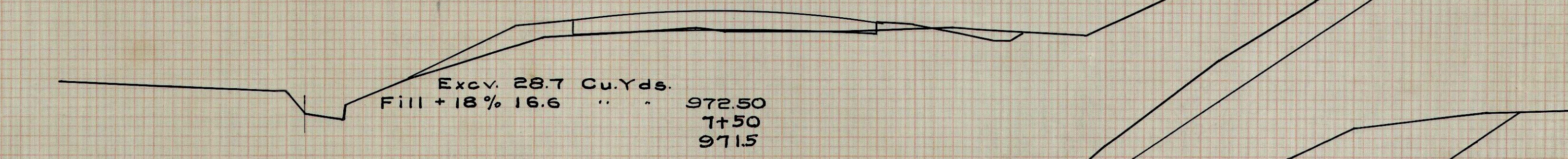
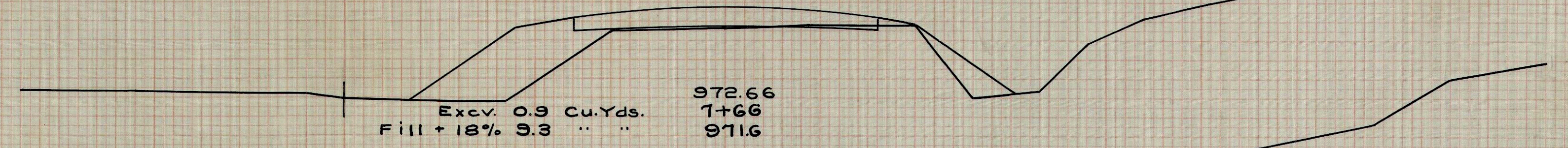
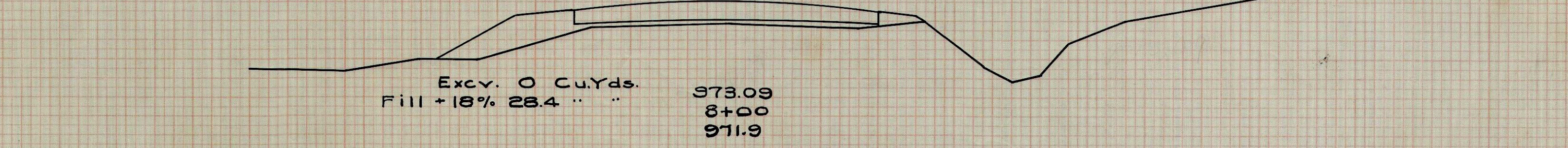
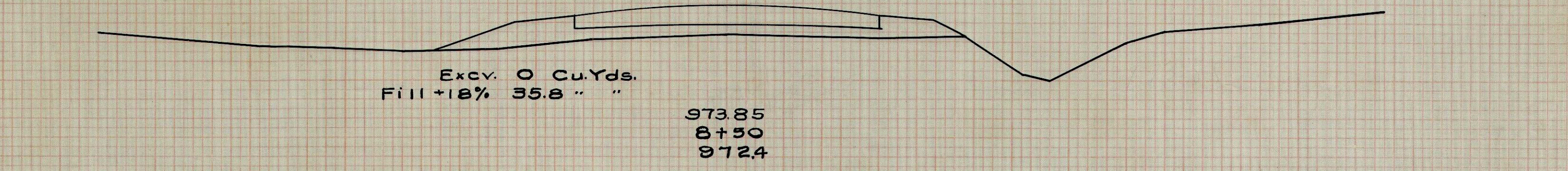
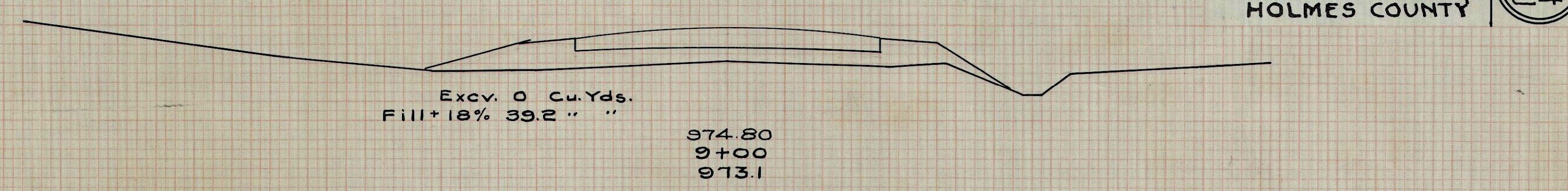
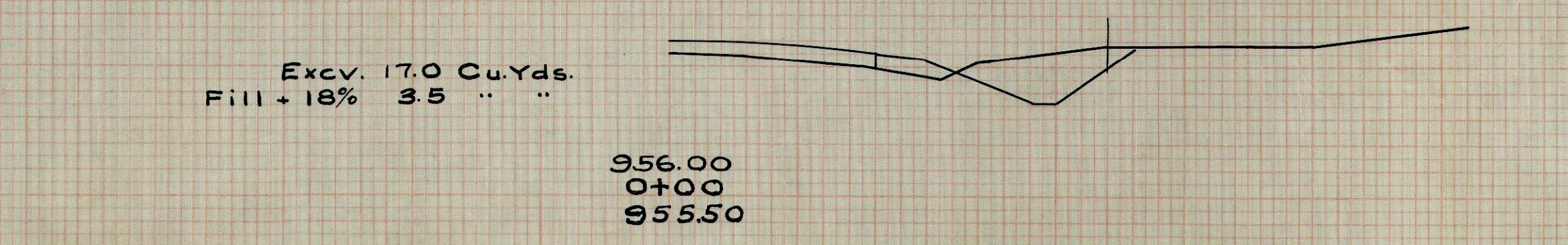
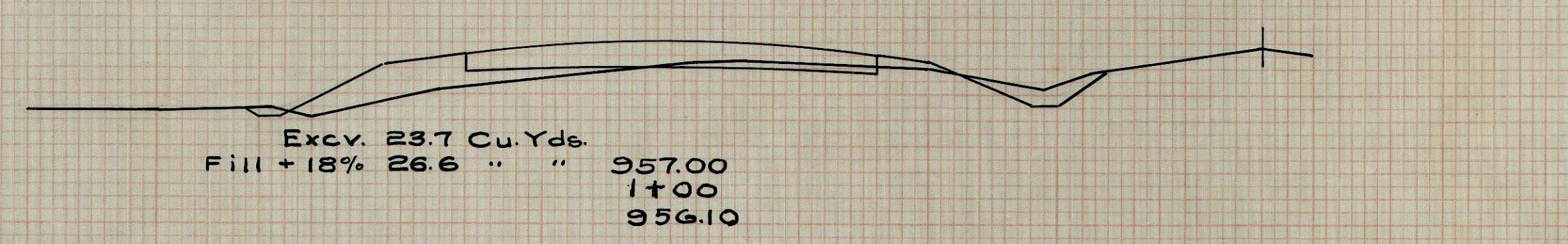
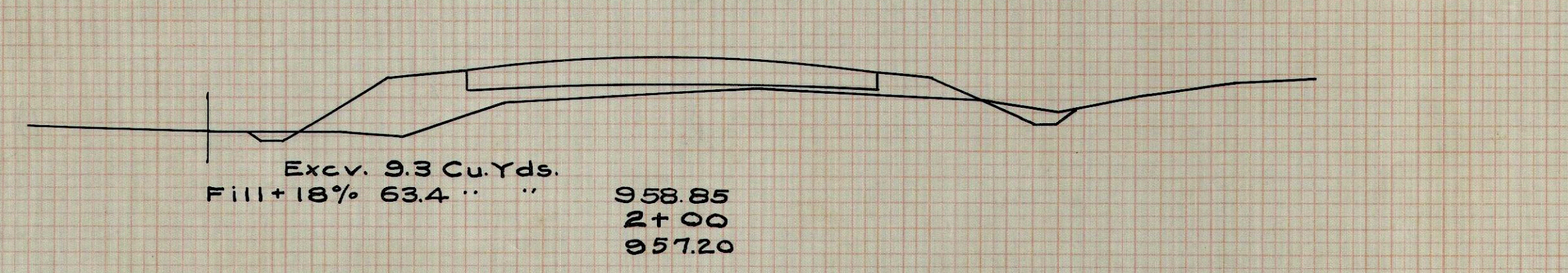
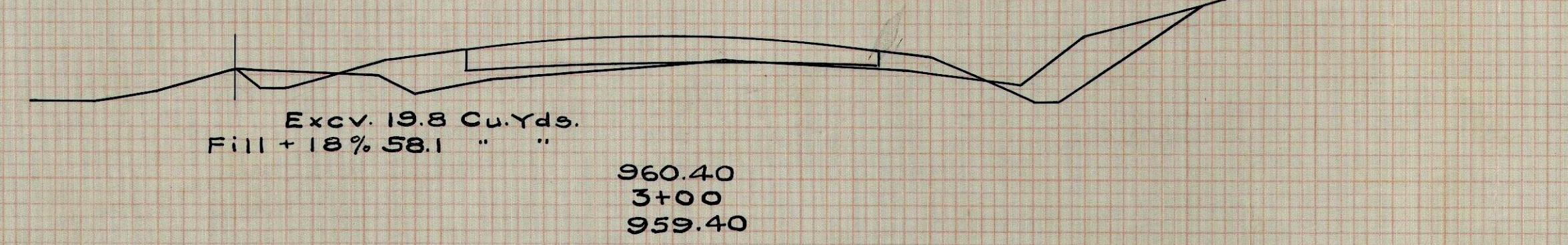
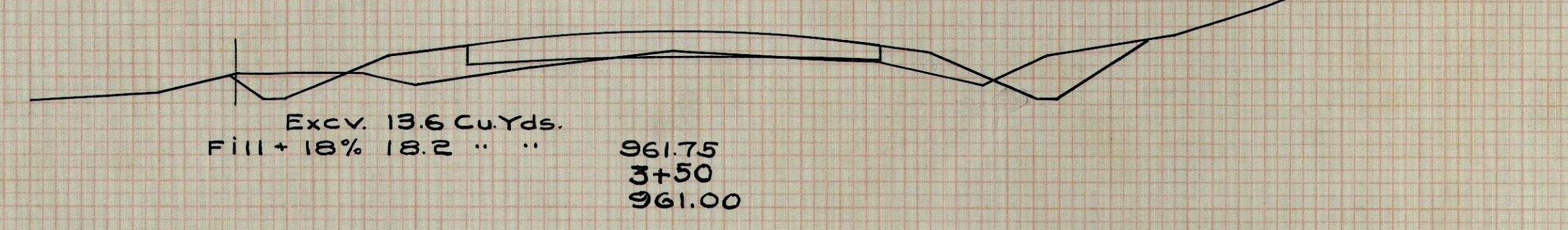
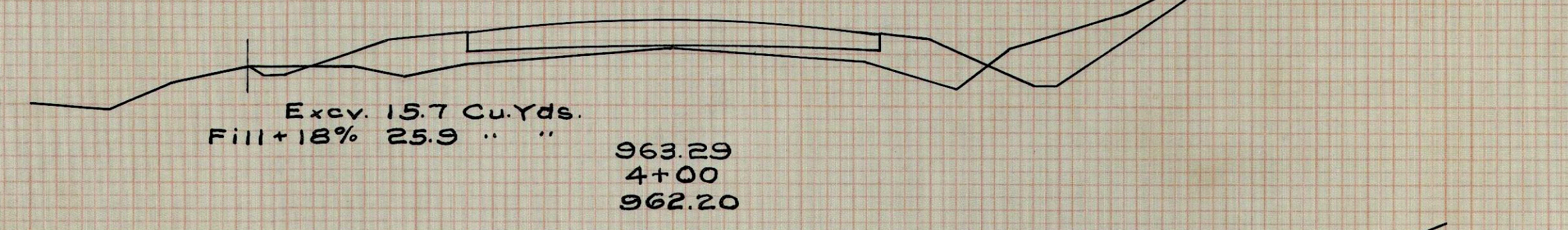
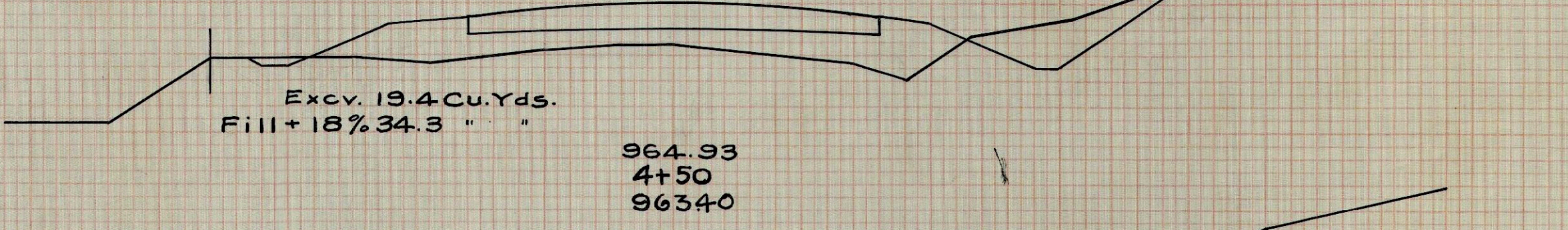
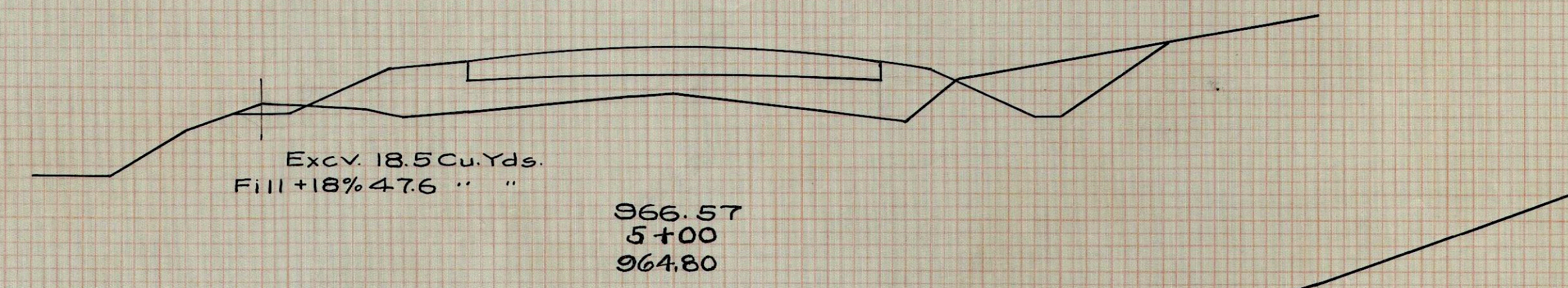


25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20

25  
Sec. D' Road No. 158  
MILLERSBURG - MASSILLON RD.  
Salt Creek  
Township  
HOLMES COUNTY

8  
24



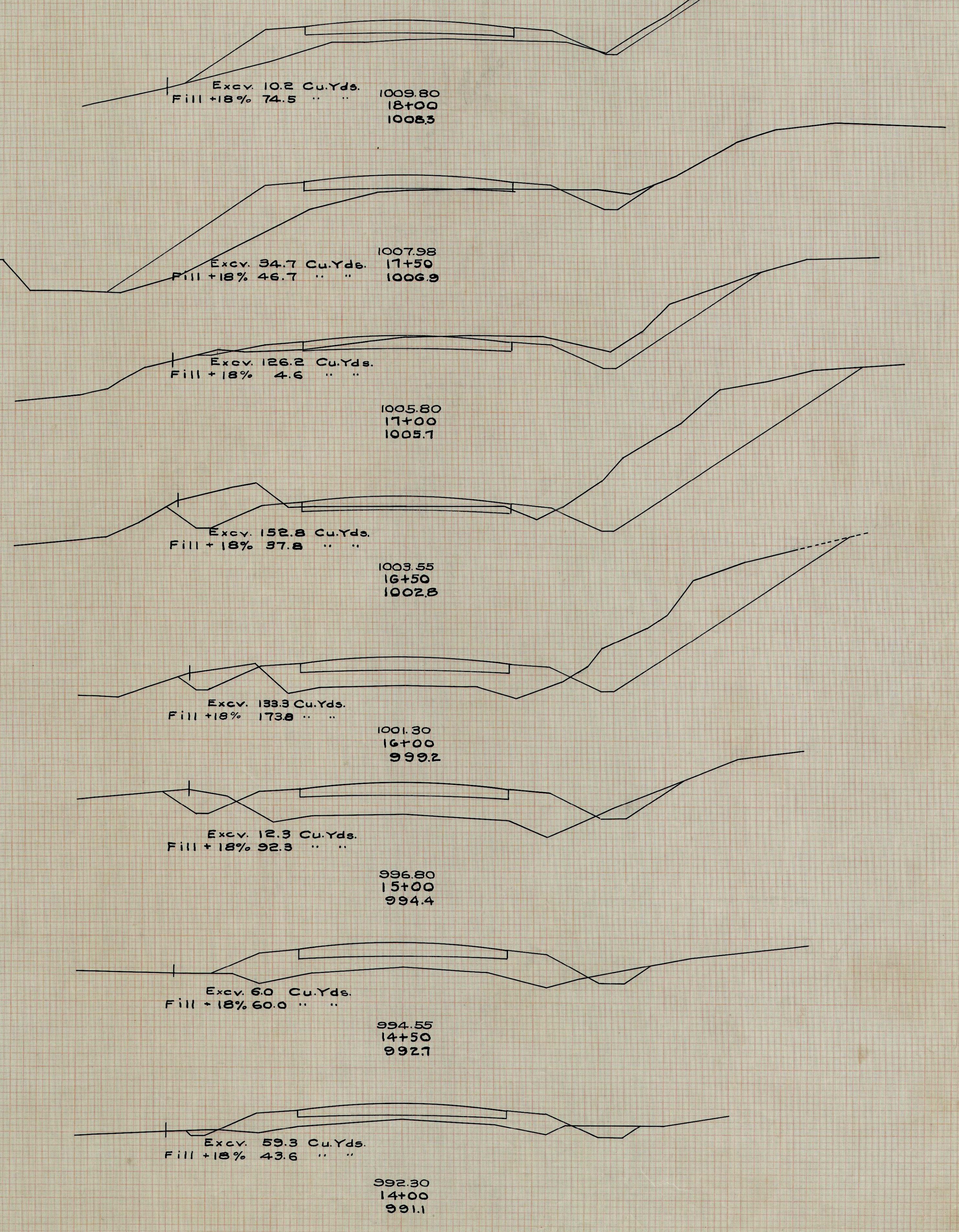
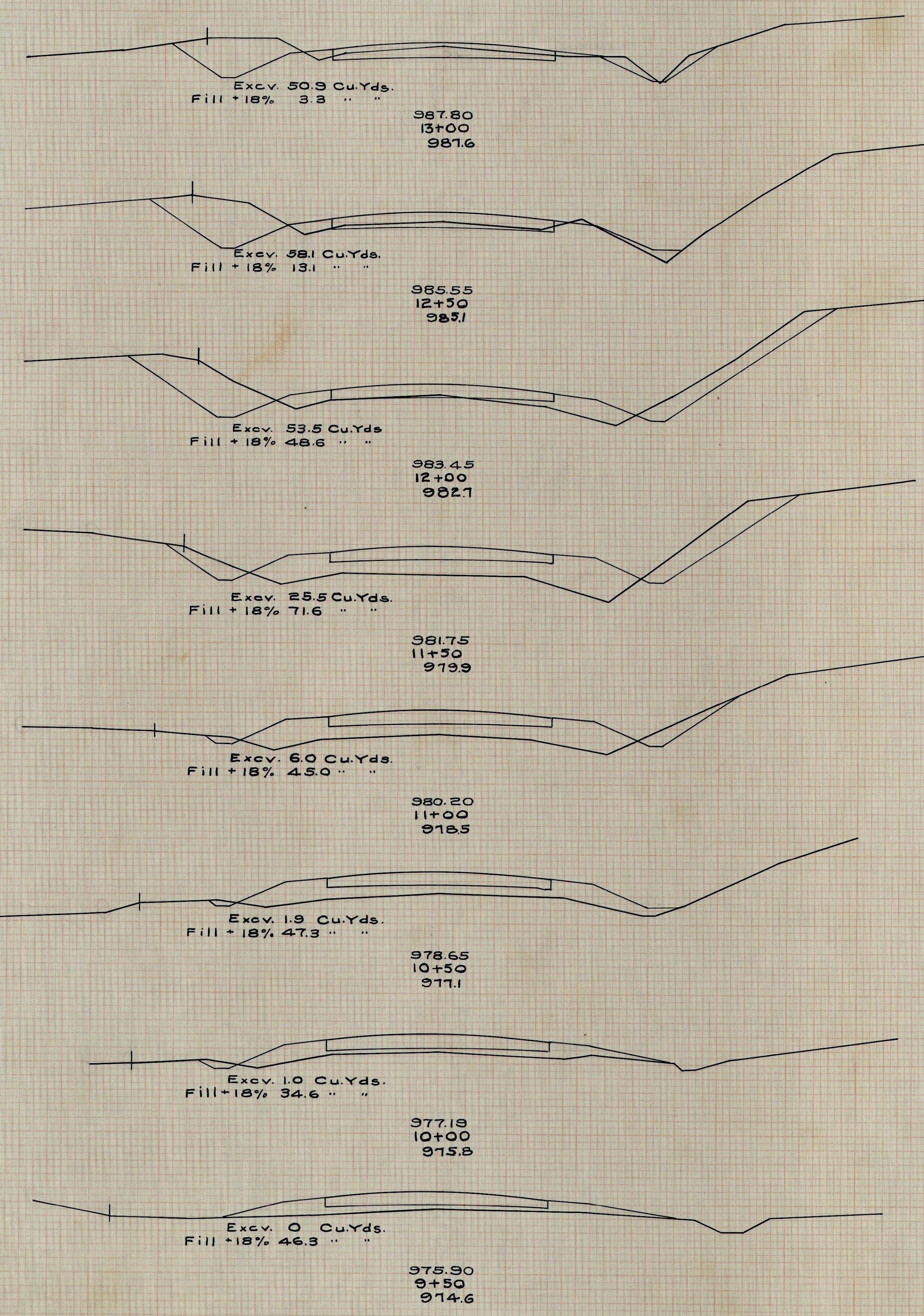
30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20 25 30 35 40



30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20



30 25 20 15 10 5 0 5 10 15 20 25 30

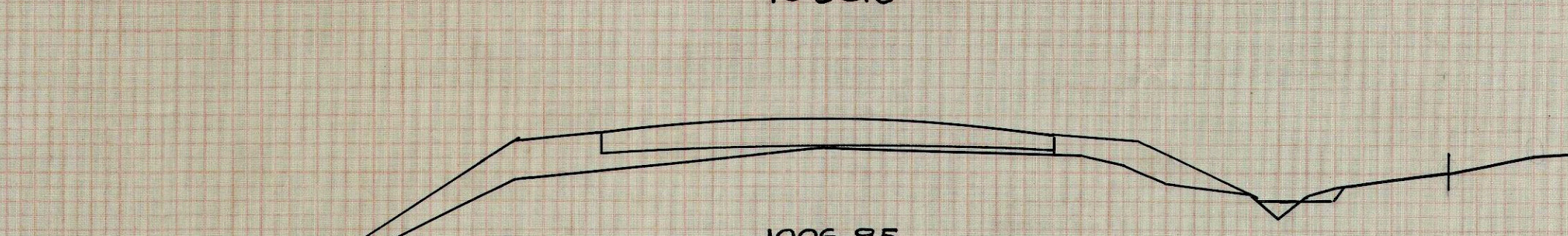
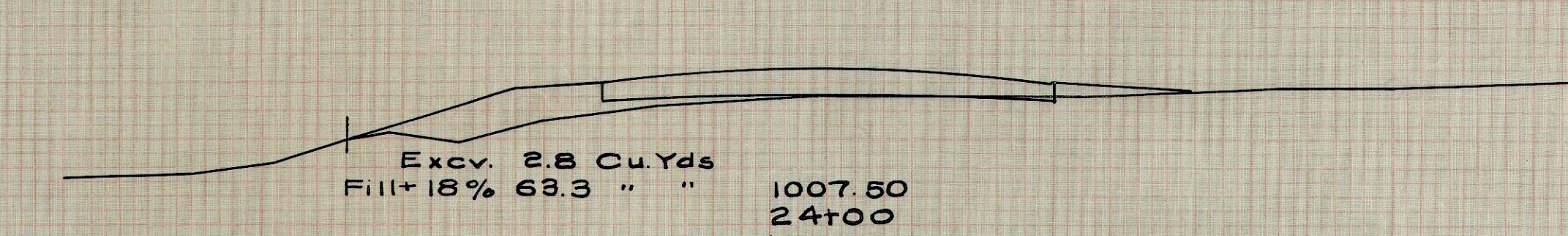
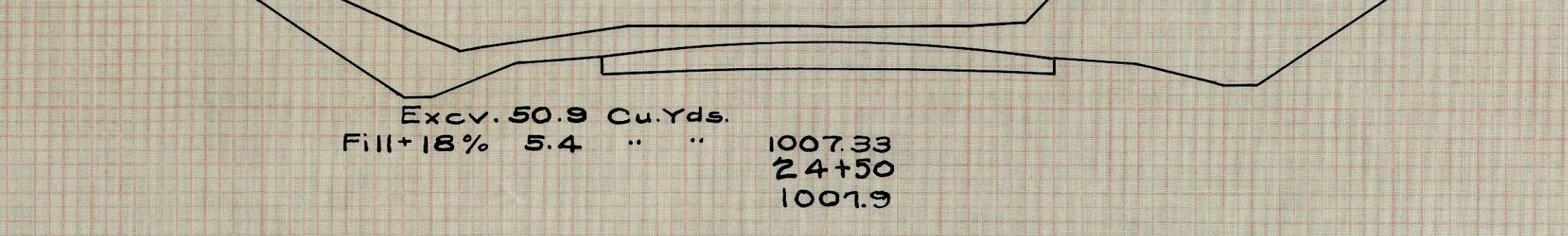
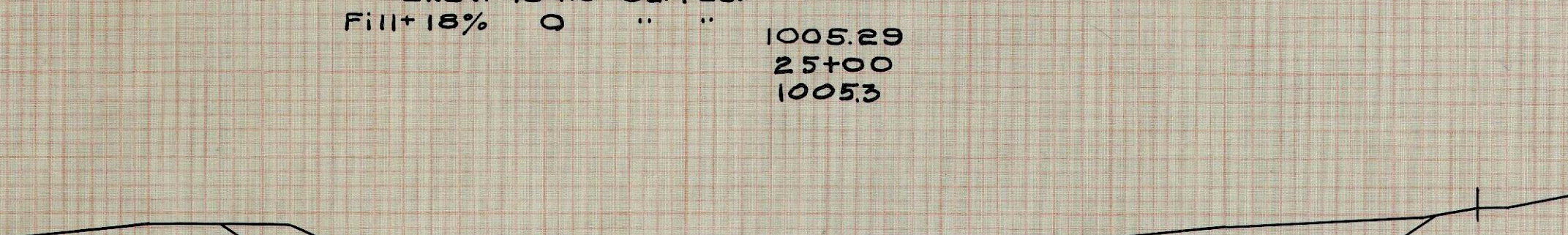
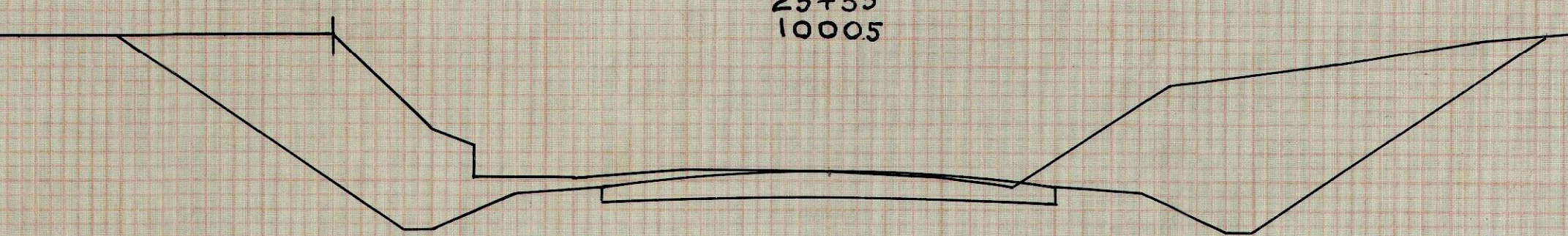
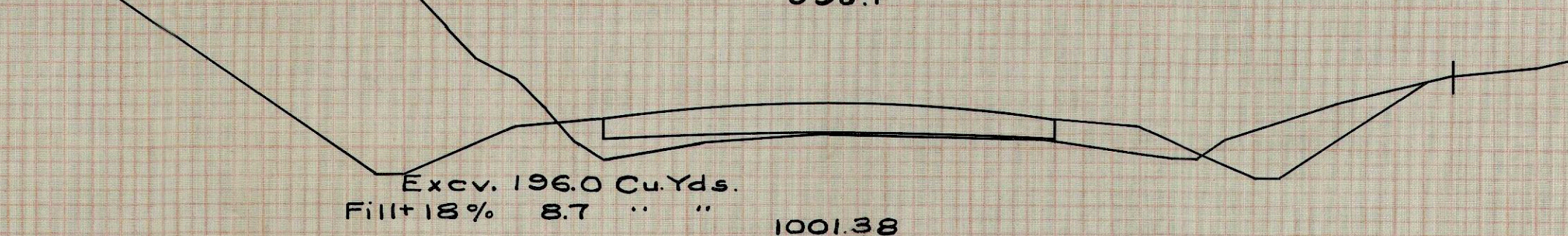
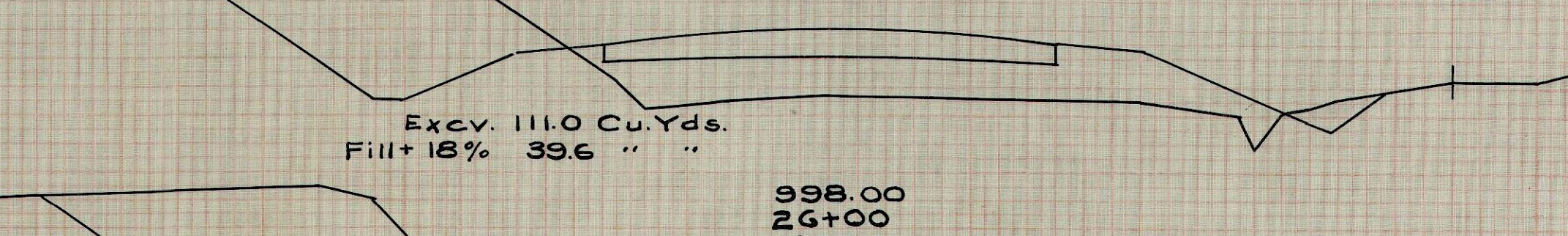
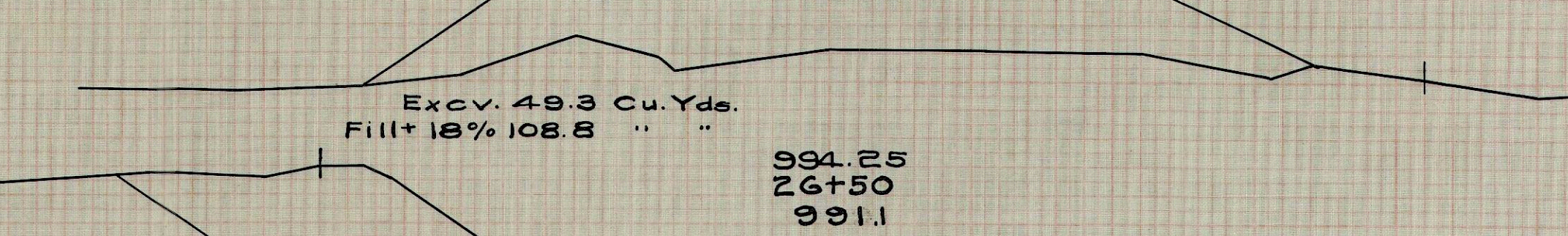
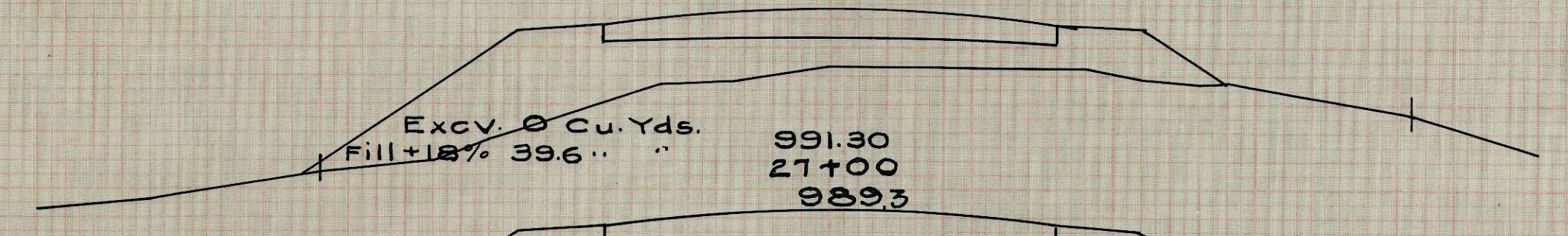
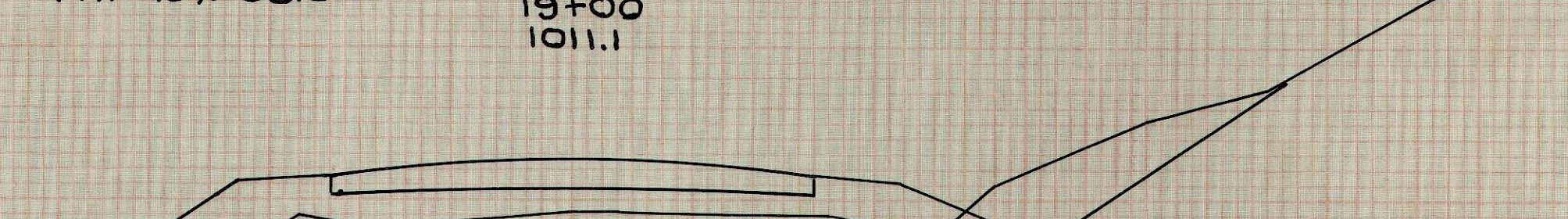
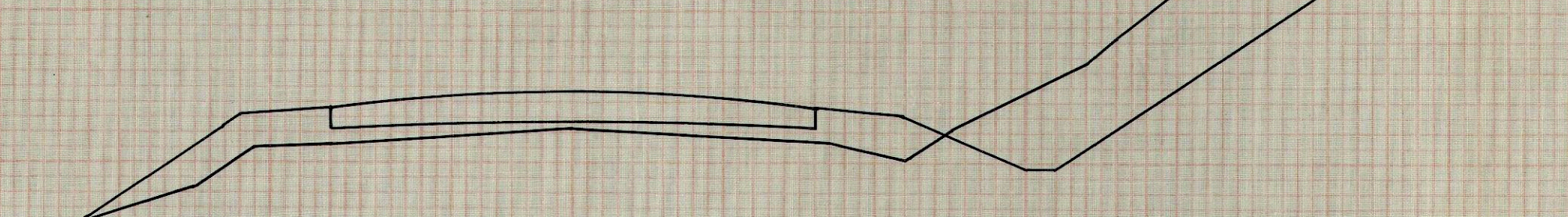
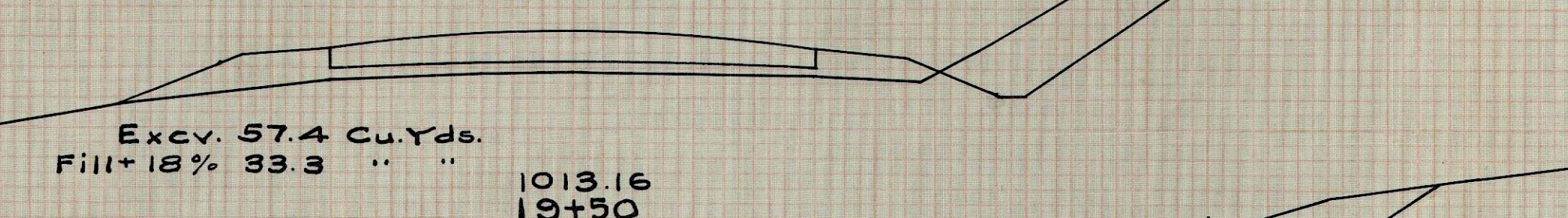
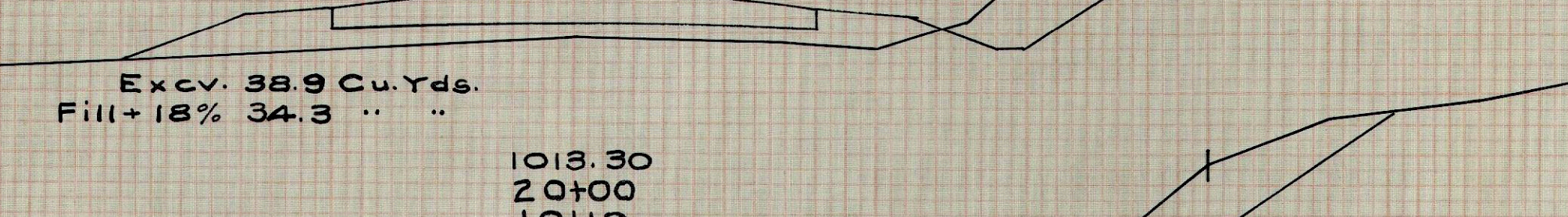
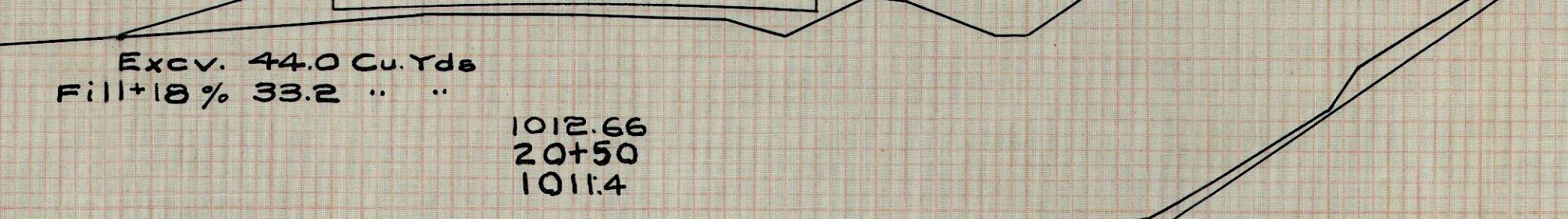
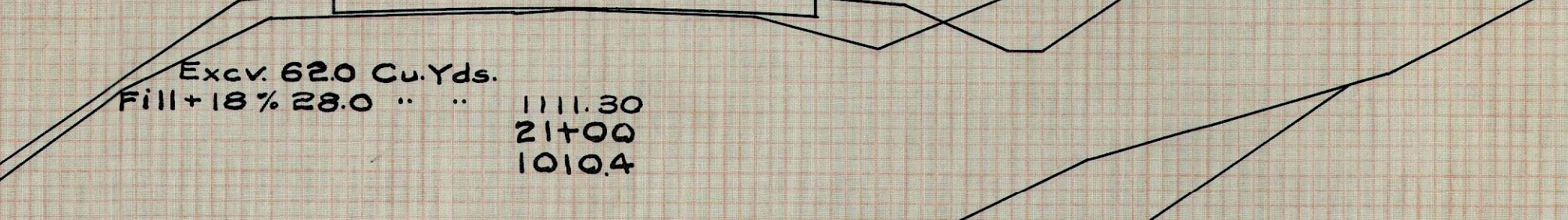
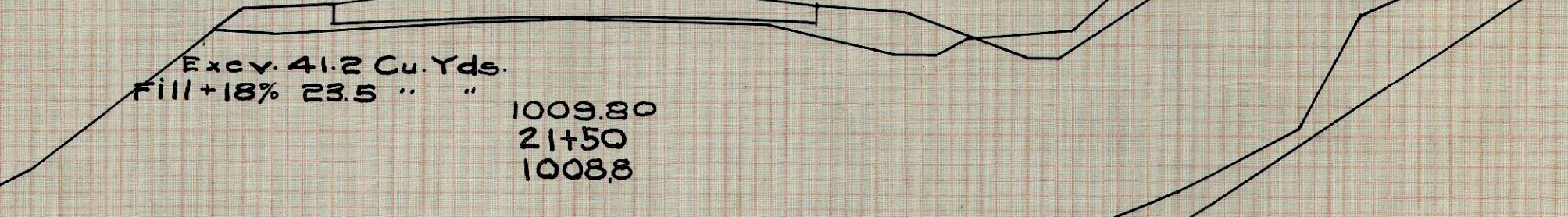
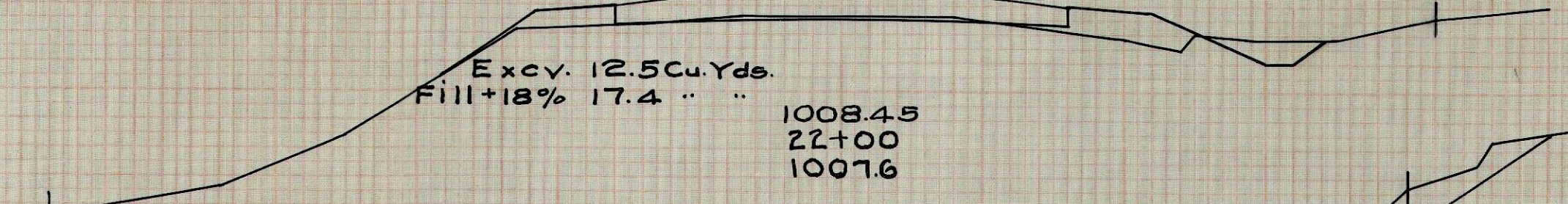
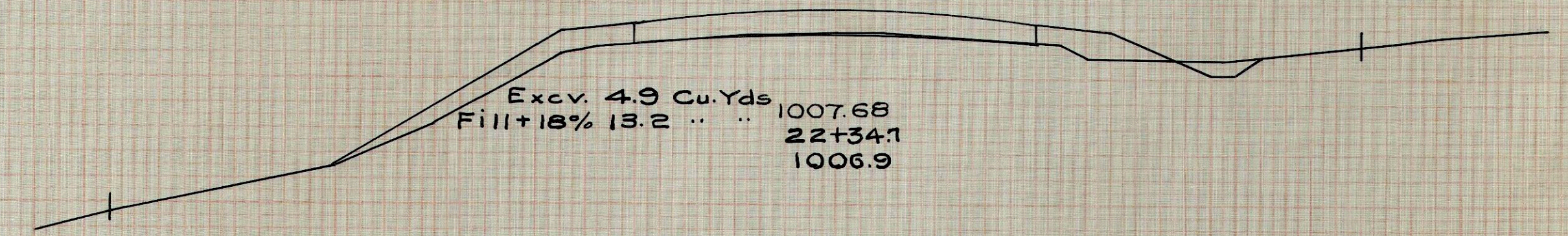
30 25 20 15 10 5 0 5 10 15 20

DATE  
 BY  
 FINAL SURVEY  
 REVISIONS  
 NO. DATE

DATE  
 BY  
 ORIGINAL SURVEY  
 REVISIONS  
 NO. DATE



30 25 20 15 10 5 0 5 10 15 20 25 30 35 30 25 20 15 10 5 0 5 10 15 20 25 30

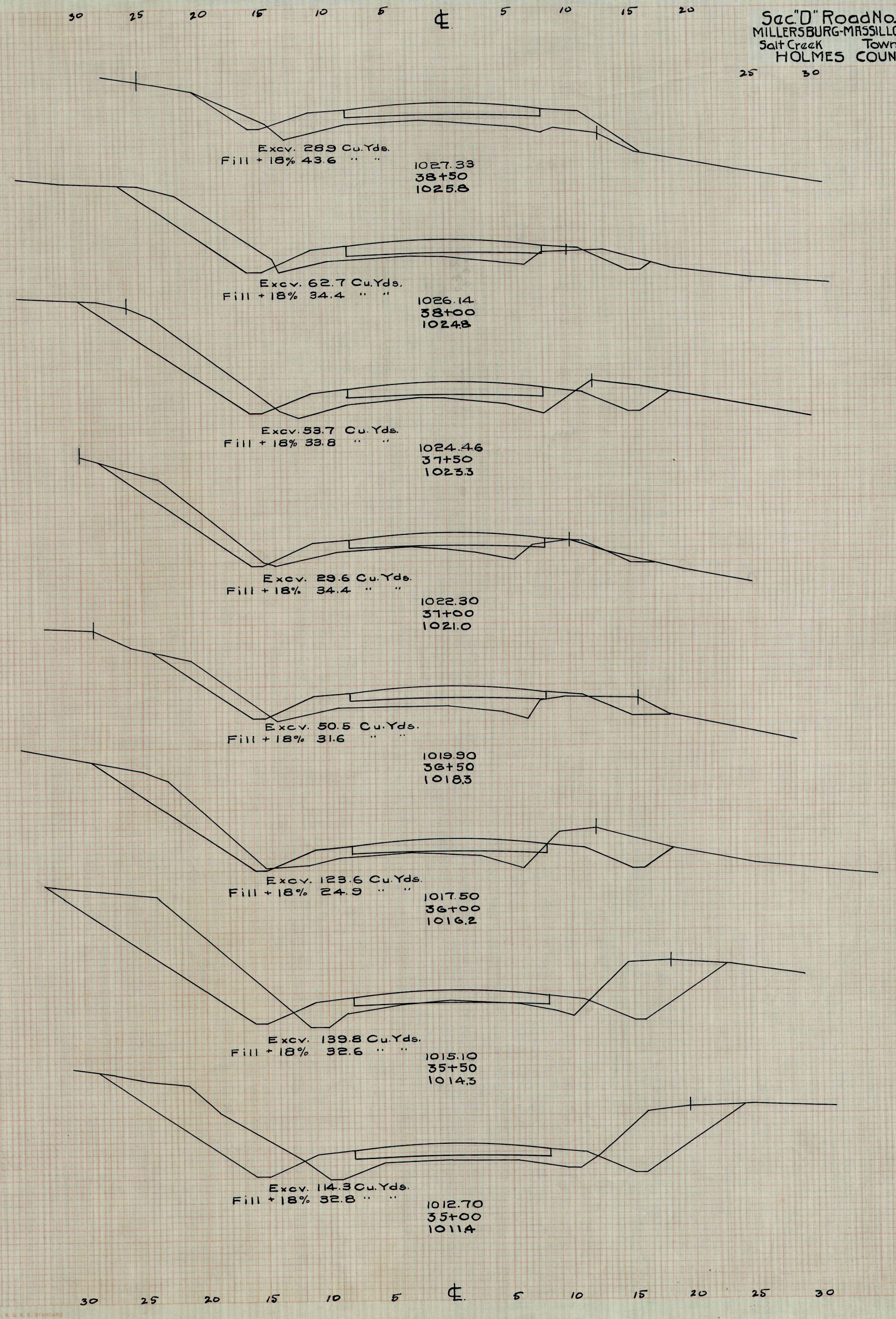
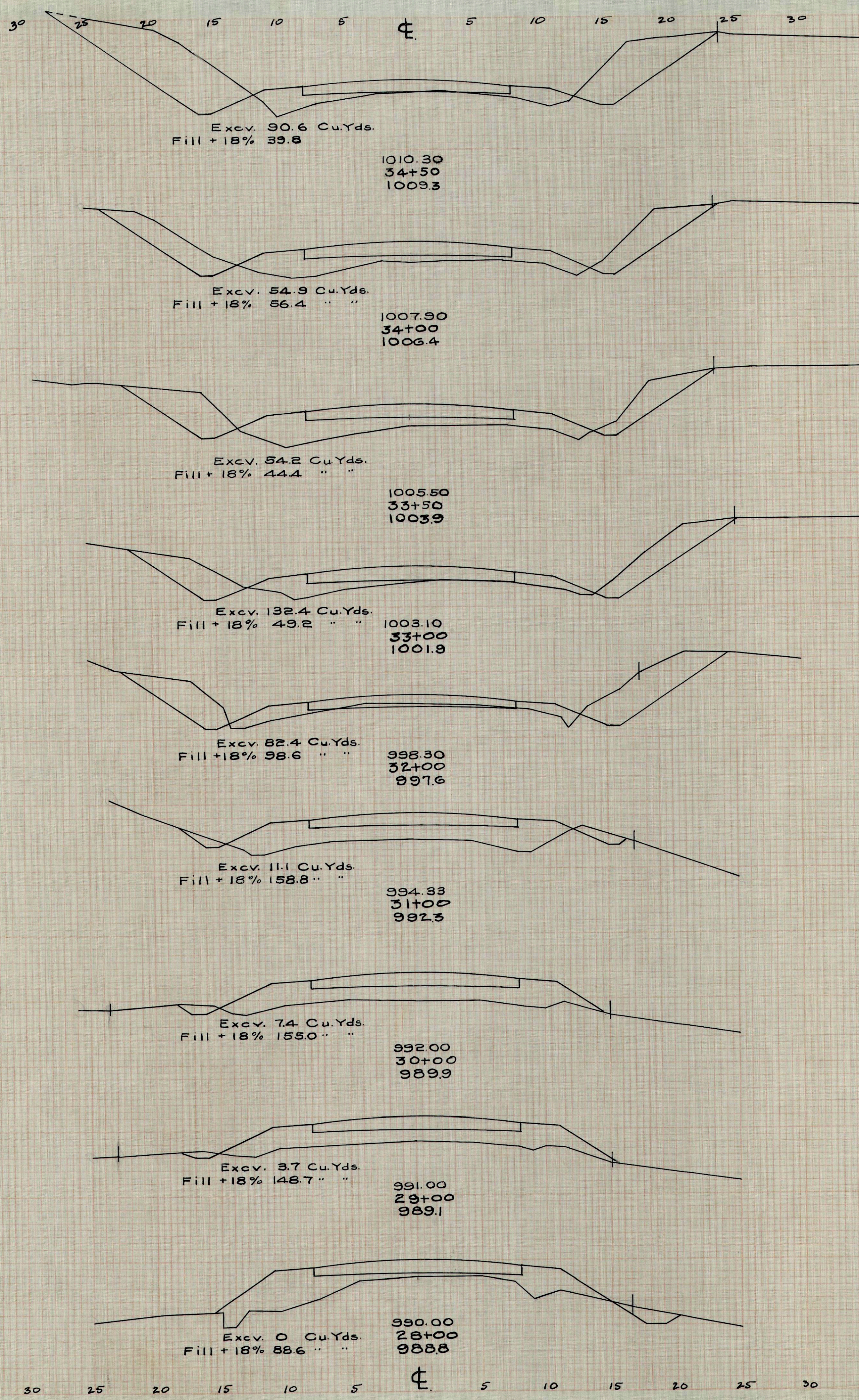


30 25 20 15 10 5 0 5 10 15 20 25 30 35 30 25 20 15 10 5 0 5 10 15 20 25 30

ORIGINAL SURVEY  
 DATE: 10-1-1924  
 BY: J. H. ...

ORIGINAL SURVEY  
 DATE: 10-1-1924  
 BY: J. H. ...





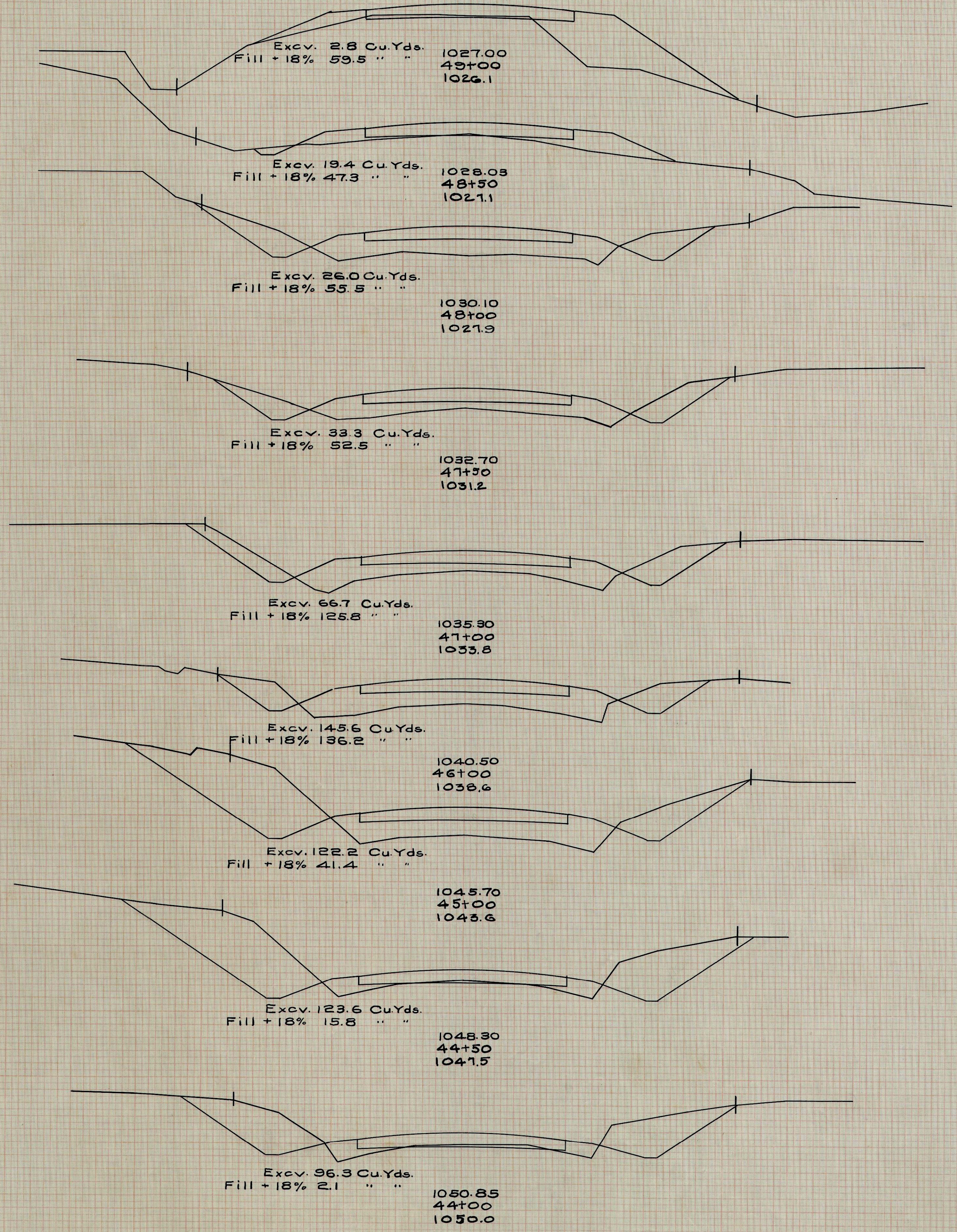
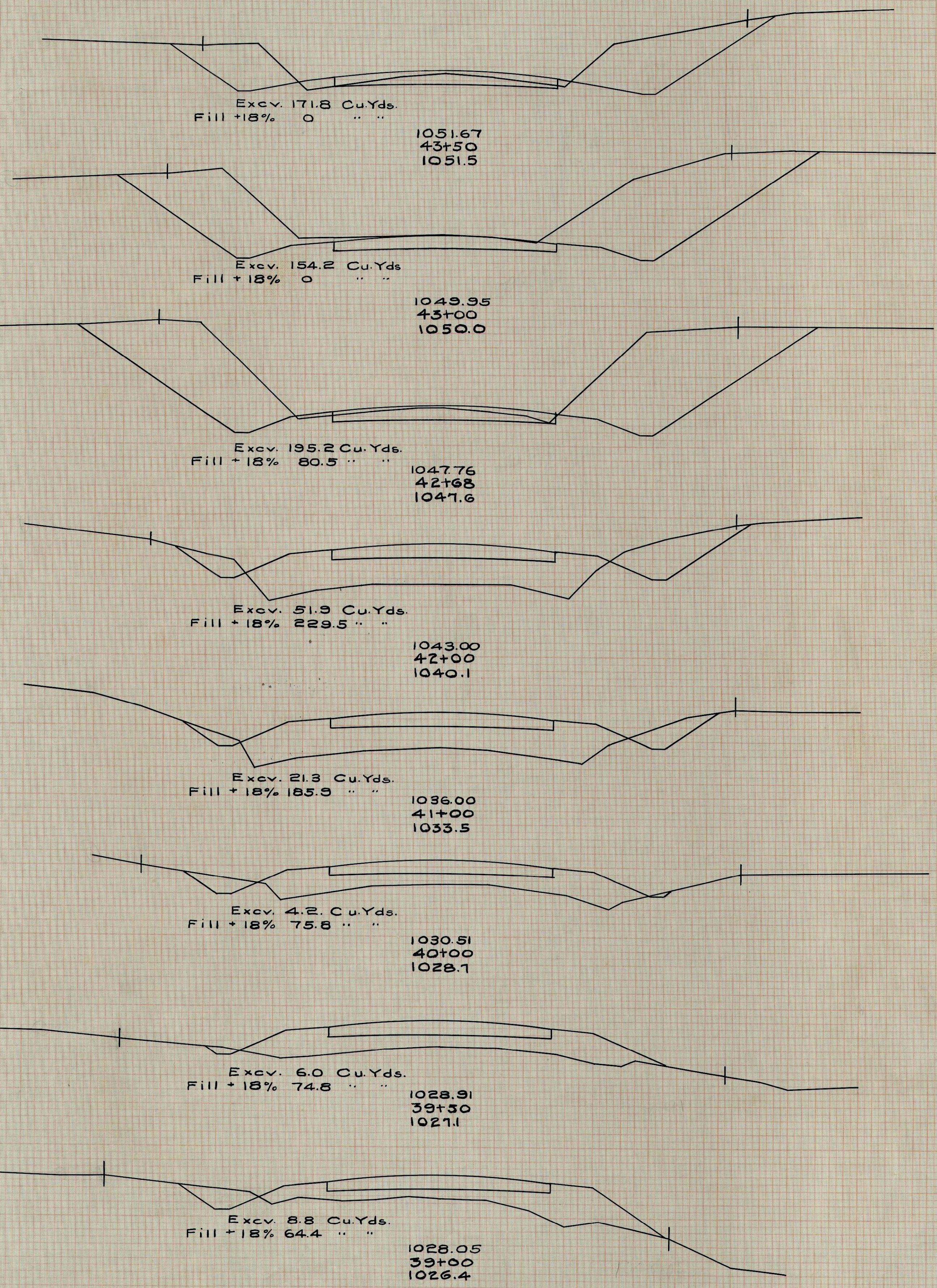
FINISH SUBMITTAL  
 SURVEY PLOTTING  
 REVISIONS  
 DATE  
 NO.

ORIGINAL SURVEY  
 DATE  
 NO.



30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20 25 30



30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20 25 30

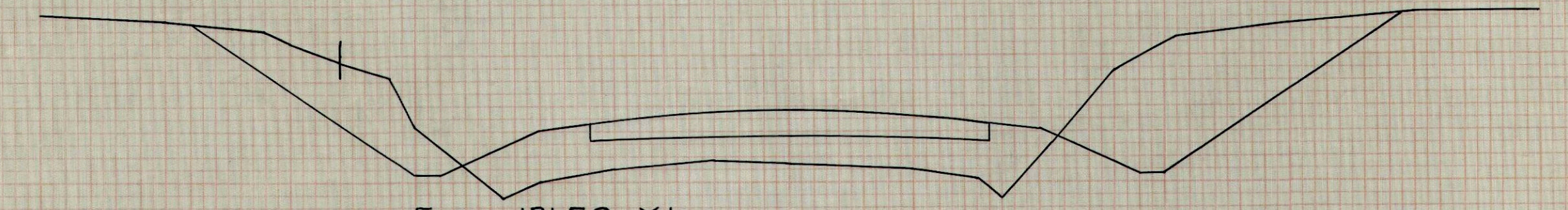
DATE  
 BY  
 ORIGINAL SURVEY  
 PLANNED  
 RECALCULATE  
 NOTE BOOK  
 NO.

DATE  
 BY  
 ORIGINAL SURVEY  
 PLANNED  
 RECALCULATE  
 NOTE BOOK  
 NO.

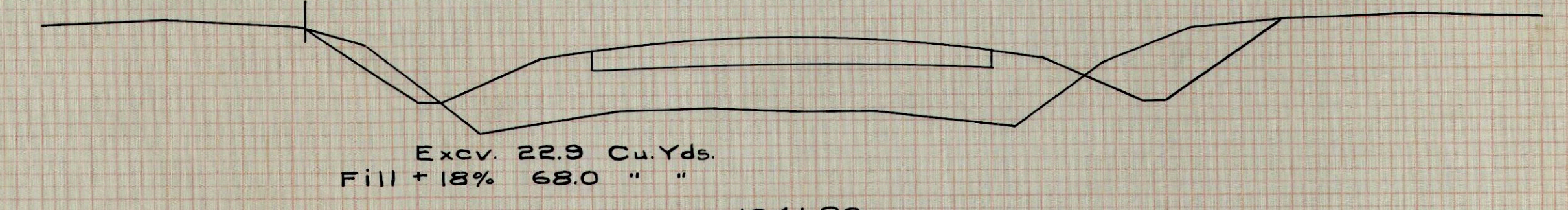


30 25 20 15 10 5 0 5 10 15 20 25 30

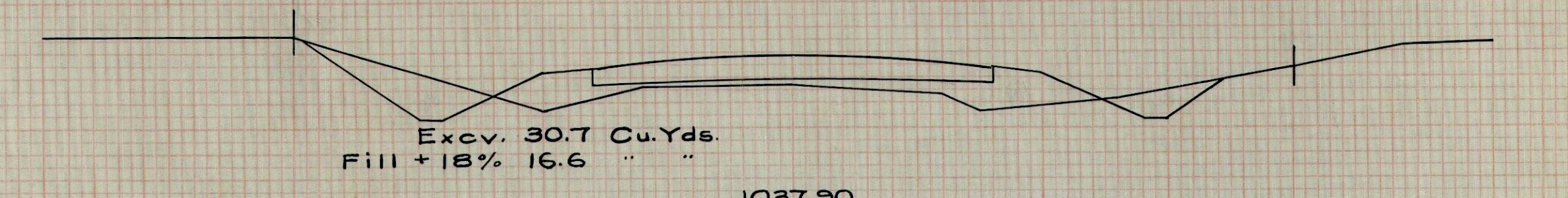
30 25 20 15 10 5 0 5 10 15 20 25 30



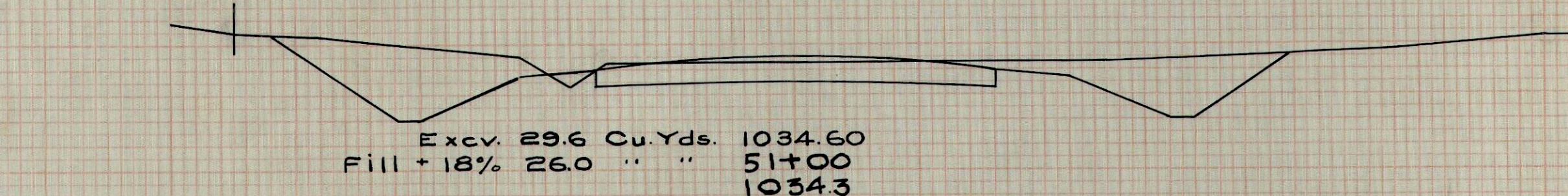
1047.80  
53+00  
1045.1



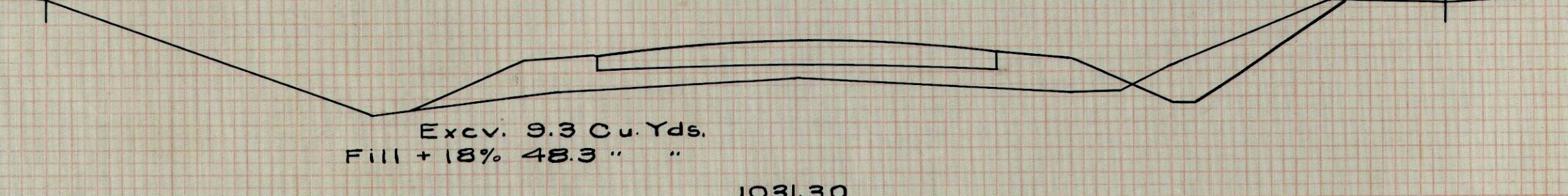
1041.20  
52+00  
1038.4



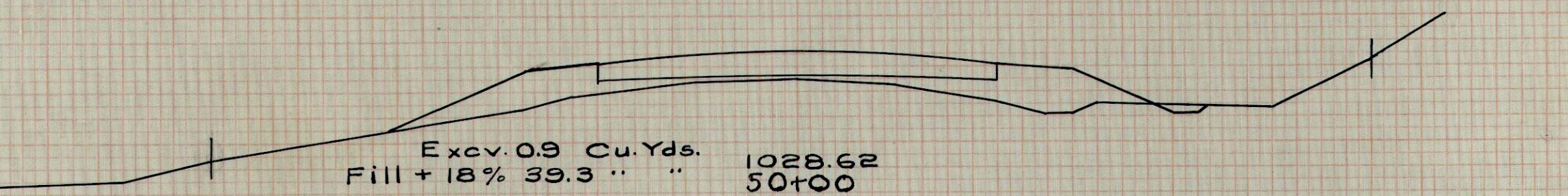
1037.90  
51+50  
1036.7



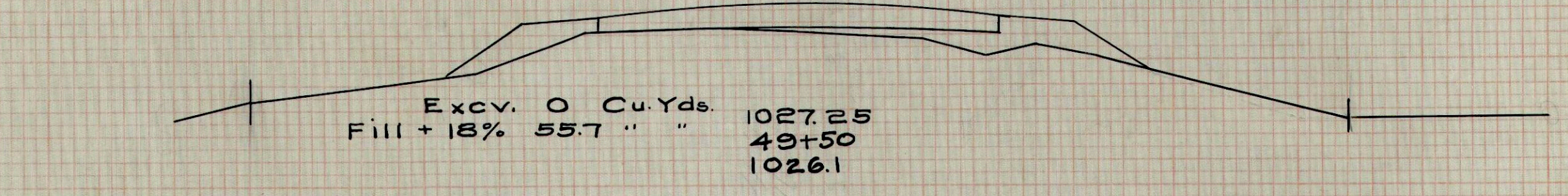
1034.60  
51+00  
1034.3



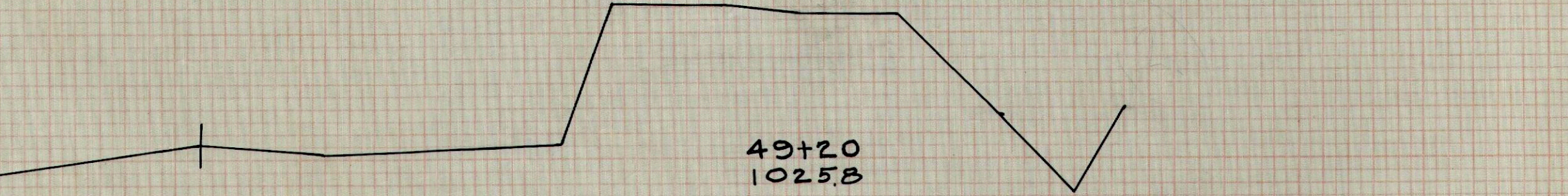
1031.30  
50+50  
1029.8



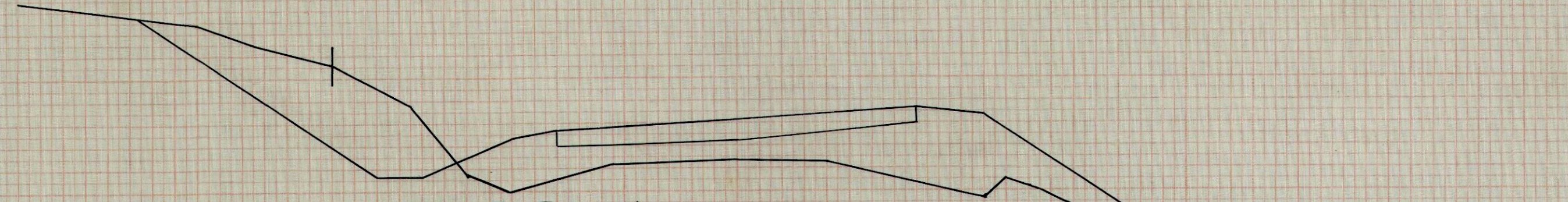
1028.62  
50+00  
1027.5



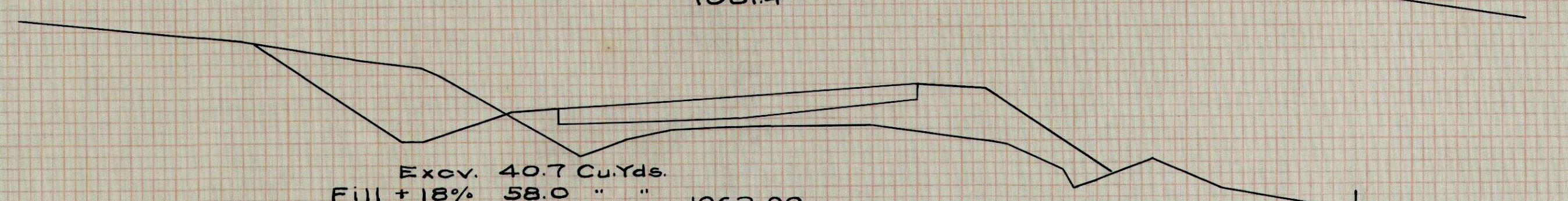
1027.25  
49+50  
1026.1



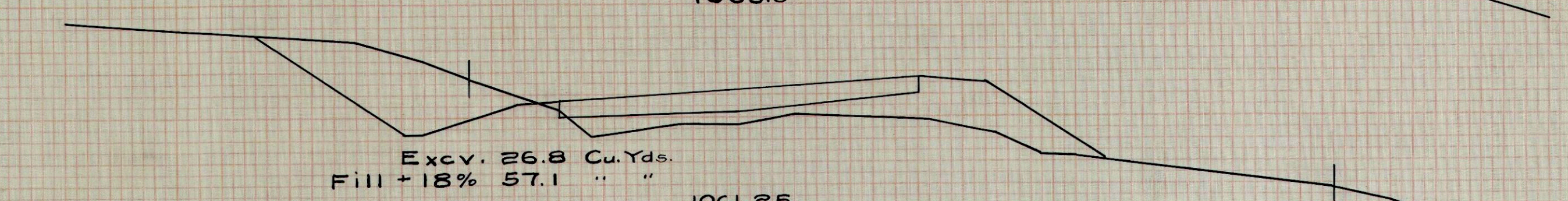
30 25 20 15 10 5 0 5 10 15 20 25 30



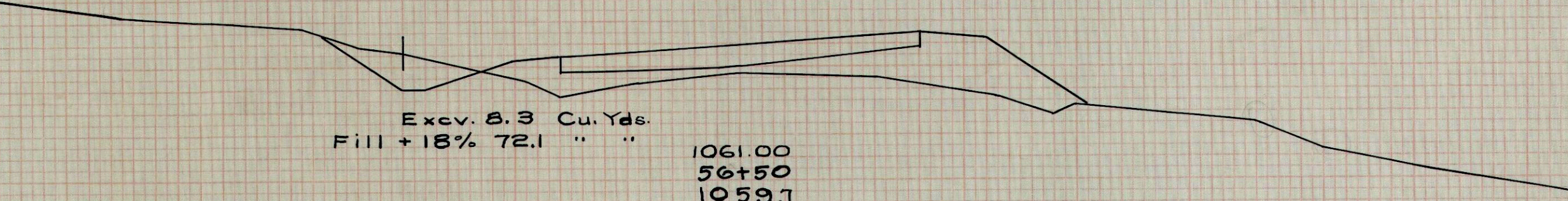
1063.16  
58+00  
1061.4



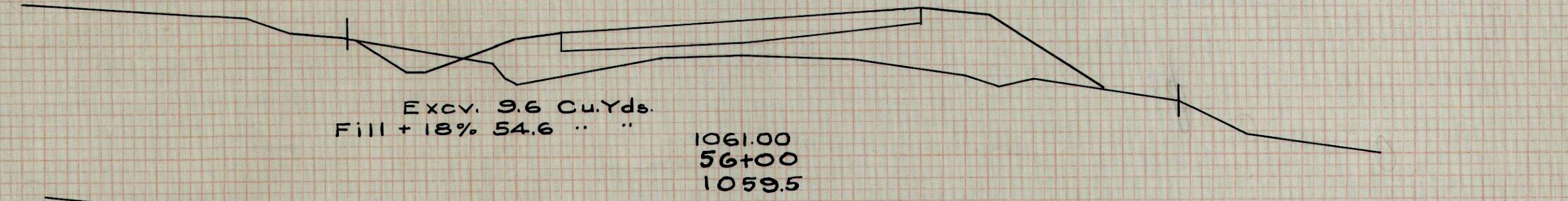
1062.00  
57+50  
1060.6



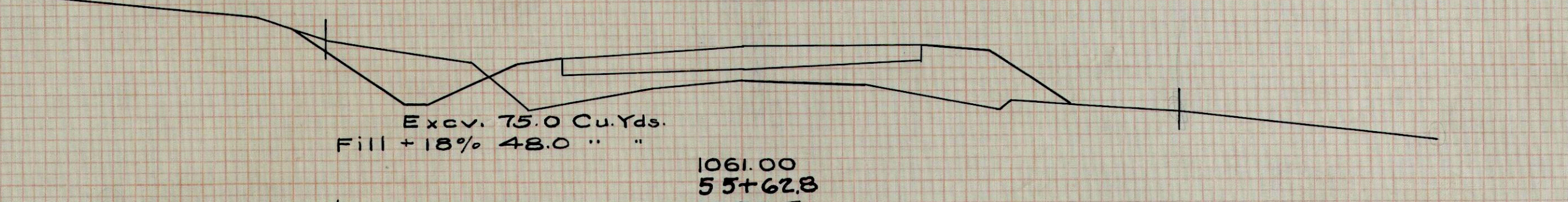
1061.25  
57+00  
1059.7



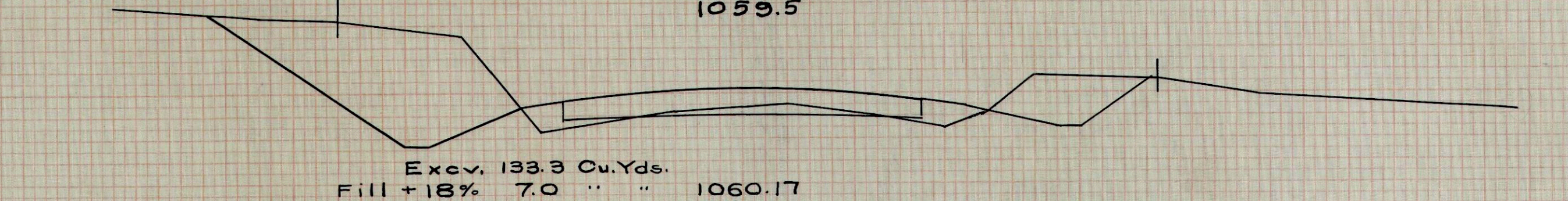
1061.00  
56+50  
1059.7



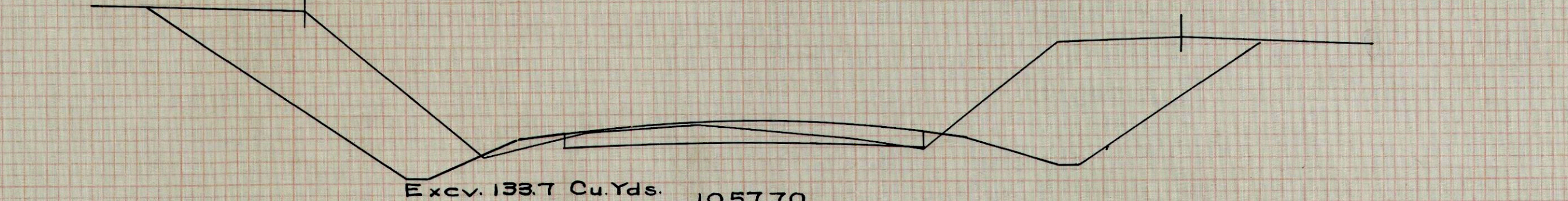
1061.00  
56+00  
1059.5



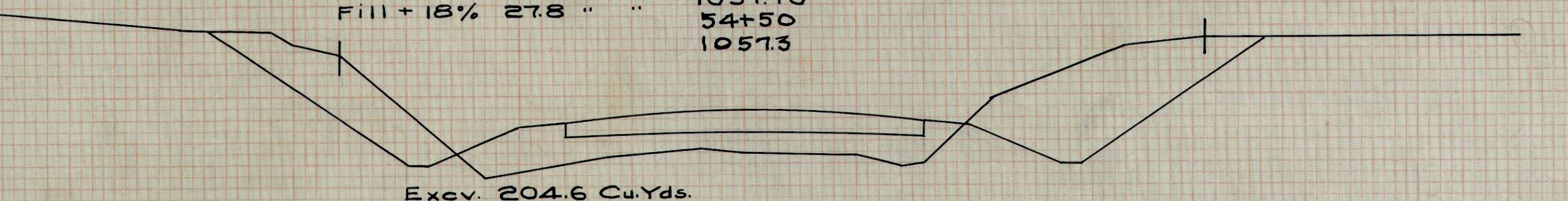
1061.00  
55+62.8  
1059.5



1060.17  
55+00  
1059.4



1057.70  
54+50  
1057.3



1054.40  
54+00  
1052.5

30 25 20 15 10 5 0 5 10 15 20 25 30

DATE  
BY  
FINAL SURVEY  
IMPROVED  
PLOTTED  
TEMPLATE  
NOTE BOOK  
NO.

DATE  
BY  
ORIGINAL SURVEY  
IMPROVED  
PLOTTED  
TEMPLATE  
NOTE BOOK  
NO.



30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20

Sec. D Road No. 158  
MILLERSBURG-MASSILLON RD  
Salt Creek Township  
HOLMES COUNTY

14  
24

Excav. 266.7 Cu.Yds. 1100.45  
Fill +18% 27.2 " " 63+00  
1099.8

Excav. 159.7 Cu.Yds. 1092.00  
Fill +18% 36.6 " " 62+00  
1090.6

Excav. 138.9 Cu.Yds. 1087.82  
Fill +18% 61.2 " " 61+50  
1086.0

Excav. 73.8 Cu.Yds. 1083.66  
Fill +18% 73.7 " " 61+00  
1081.5

Excav. 37.7 Cu.Yds. 1079.50  
Fill +18% 121.8 " " 60+50  
1077.7

Excav. 22.9 Cu.Yds. 1075.33  
Fill +18% 162.0 " " 60+00  
1071.7

Excav. 28.4 Cu.Yds. 1071.21  
Fill +18% 133.3 " " 59+50  
1067.6

Excav. 27.3 Cu.Yds. 1067.74  
Fill +18% 115.5 " " 59+00  
1065.1

Excav. 42.8 Cu.Yds. 1065.05  
Fill +18% 112.8 " " 58+50  
1062.9

Excav. 38.1 Cu.Yds. 1117.79  
Fill +18% 41.3 " " 65+50  
1116.2

Excav. 30.0 Cu.Yds. 1116.16  
Fill +18% 74.9 " " 65+00  
1114.6

Sta. 64+59. +116 S.  
1116.2

Sta. 64+59. +66 S.  
1113.4

Sta. 64+59. +16 S.  
1113.1

Sta. 64+45. +116 N.  
1116.2

Sta. 64+45. +66 N.  
1114.5

Sta. 64+45. +16 N.  
1111.9

Excav. 63.7 Cu.Yds. 1108.66  
Fill +18% 29.1 " " 64+00  
1107.2

Excav. 113.7 Cu.Yds. 1104.50  
Fill +18% 9.8 " " 63+50  
1103.5

30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20 25 30



30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20

Sec. "D" Road No. 158.  
MILLERSBURG-MASSILLON RD.  
Salt Creek Township  
HOLMES COUNTY

15  
24

1088.06  
70+28  
10868

Excav. 42.6 Cu.Yds.  
Fill + 18% 59.4

1089.20  
70+00  
1081.8

Excav. 38.9 Cu.Yds.  
Fill + 18% 68.3

1092.50  
69+50  
10908

Excav. 37.4 Cu.Yds.  
Fill + 18% 133.3

1096.50  
69+00  
1094.6

Excav. 33.1 Cu.Yds.  
Fill + 18% 62.3

1104.50  
68+00  
1102.9

Excav. 73.8 Cu.Yds.  
Fill + 18% 43.5

1108.50  
67+50  
1106.8

Excav. 120.7 Cu.Yds.  
Fill + 18% 19.7

1112.50  
67+00  
1110.8

Excav. 140.5 Cu.Yds.  
Fill + 18% 4.6

1115.95  
66+50  
1114.7

Excav. 70.1 Cu.Yds.  
Fill + 18% 16.2

1117.66  
66+00  
1117A

Excav. 139 Cu.Yds.  
Fill + 18% 48.5

1118.25  
75+50  
1116.5

Excav. 24.8 Cu.Yds.  
Fill + 18% 50.1

1115.00  
75+00  
1113.2

Excav. 45.6 Cu.Yds.  
Fill + 18% 49.5

1111.75  
74+50  
1110.1

Excav. 96.6 Cu.Yds.  
Fill + 18% 37.2

1108.00  
74+00  
1106.7

Excav. 120.9 Cu.Yds.  
Fill + 18% 39.3

1104.00  
73+50  
1102.7

Excav. 54.4 Cu.Yds.  
Fill + 18% 43.5

1100.00  
73+00  
1098.6

Excav. 0.9 Cu.Yds.  
Fill + 18% 55.9

1096.00  
72+50  
1094.3

Excav. 0 Cu.Yds.  
Fill + 18% 59.2

1092.00  
72+00  
1090.0

Excav. 0 Cu.Yds.  
Fill + 18% 47.5

1088.90  
71+50  
1087.3

Excav. 10.2 Cu.Yds.  
Fill + 18% 70.0

1087.40  
71+00  
1085.9

Excav. 21.3 Cu.Yds.  
Fill + 18% 48.0

1087.54  
70+50  
1086.1

Excav. 0 Cu.Yds.  
Fill + 18% 97

FINAL SURVEY PLOTTED FROM ORIGINAL SURVEY

ORIGINAL SURVEY PLOTTED FROM ORIGINAL SURVEY



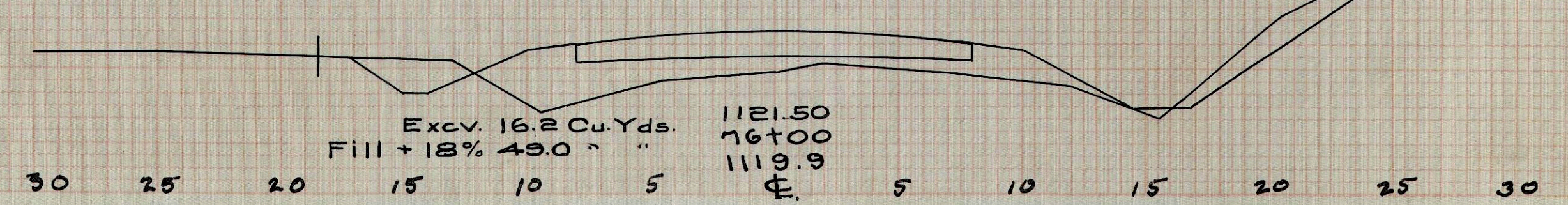
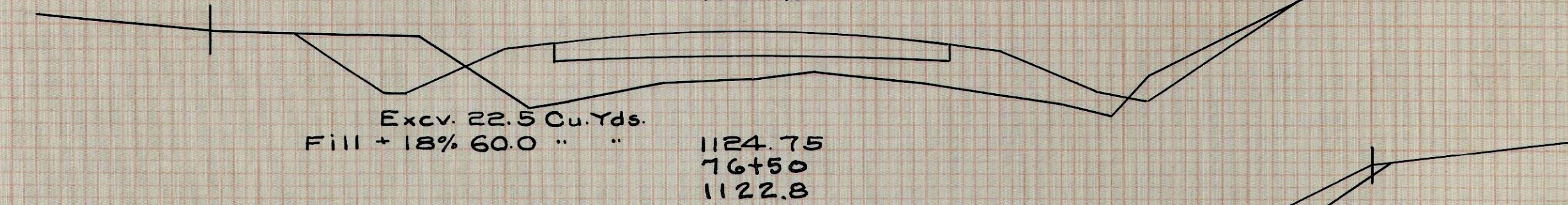
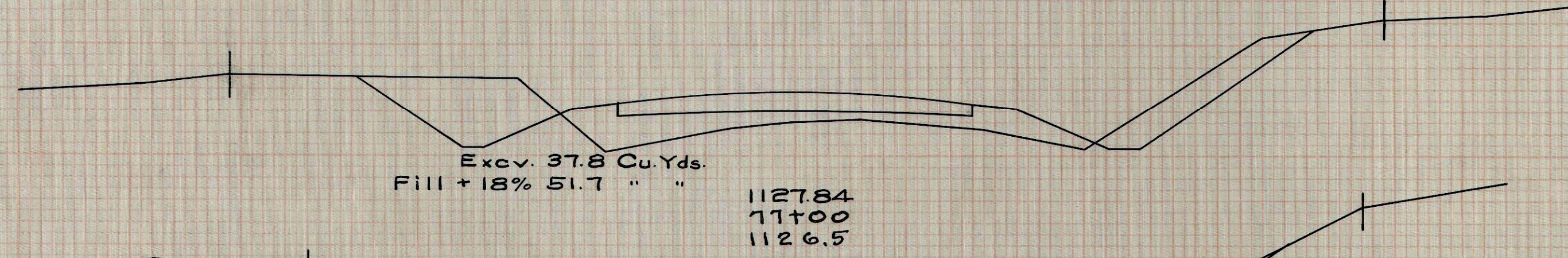
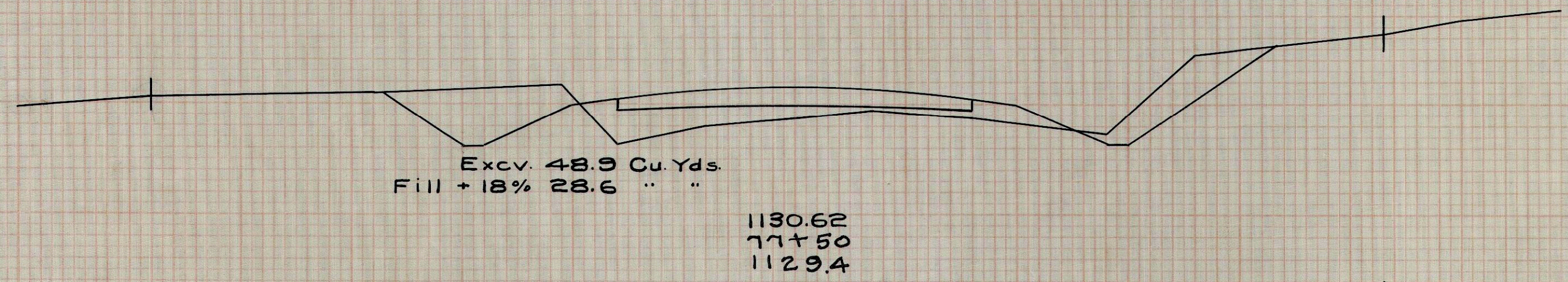
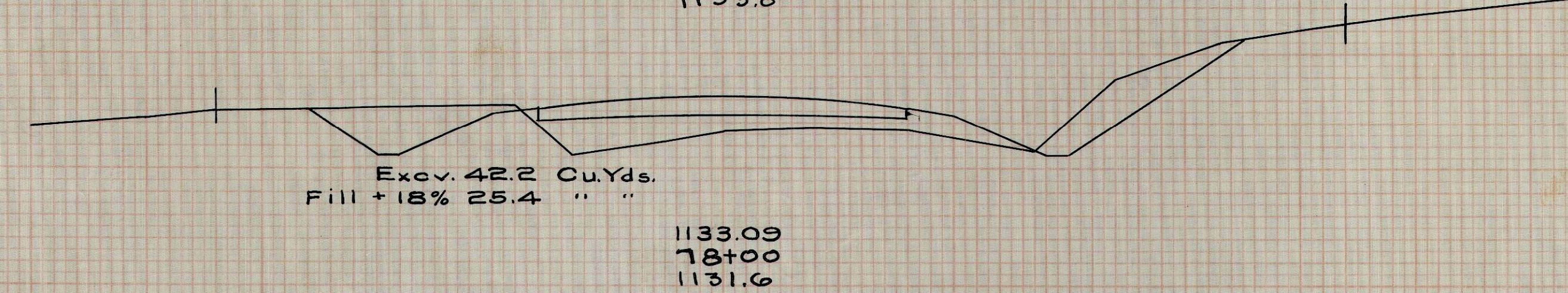
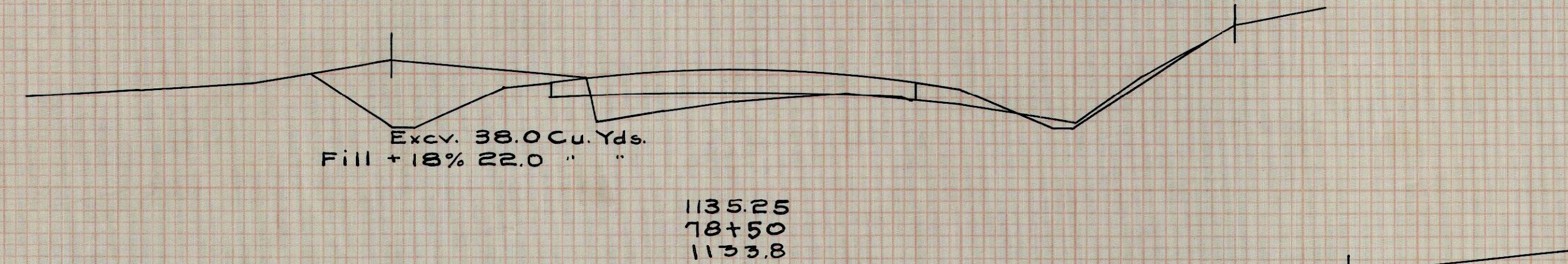
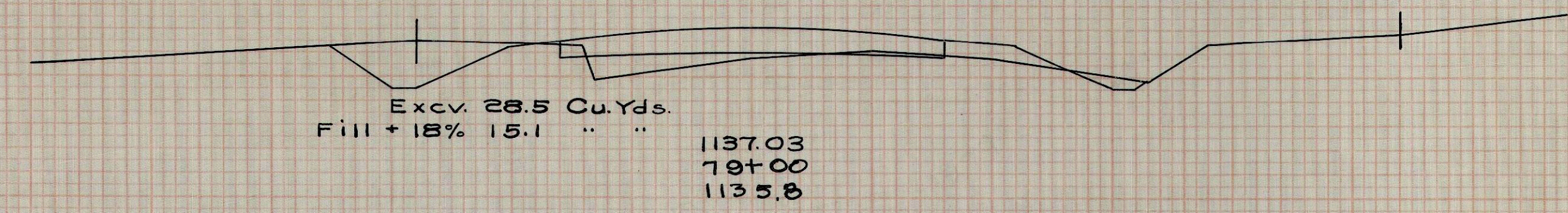
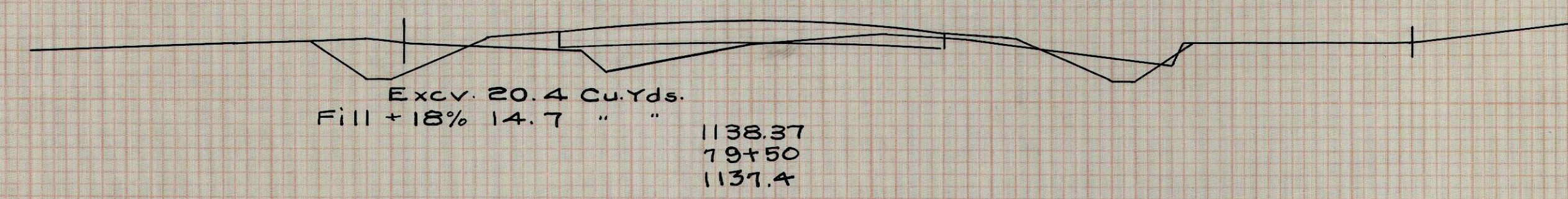
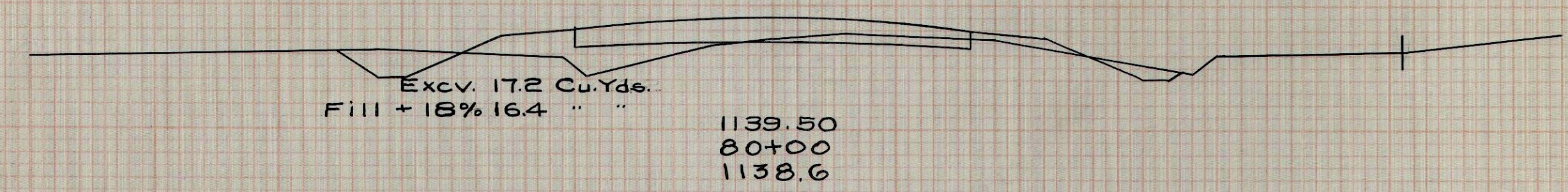
30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20

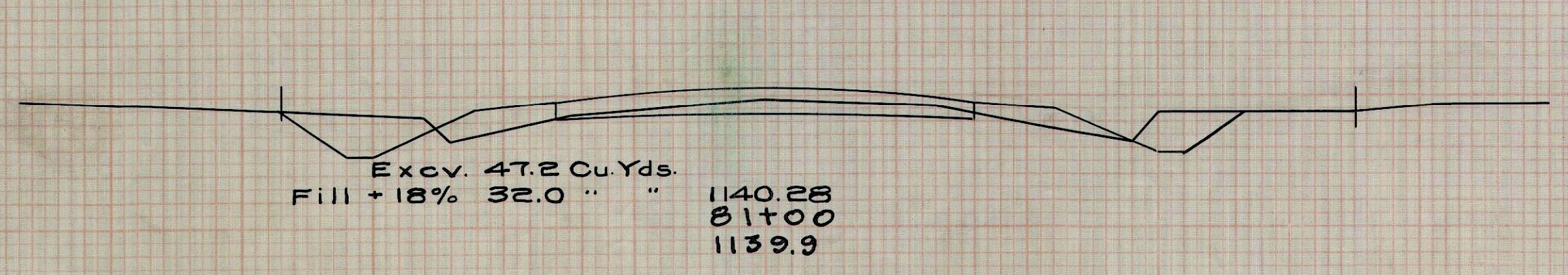
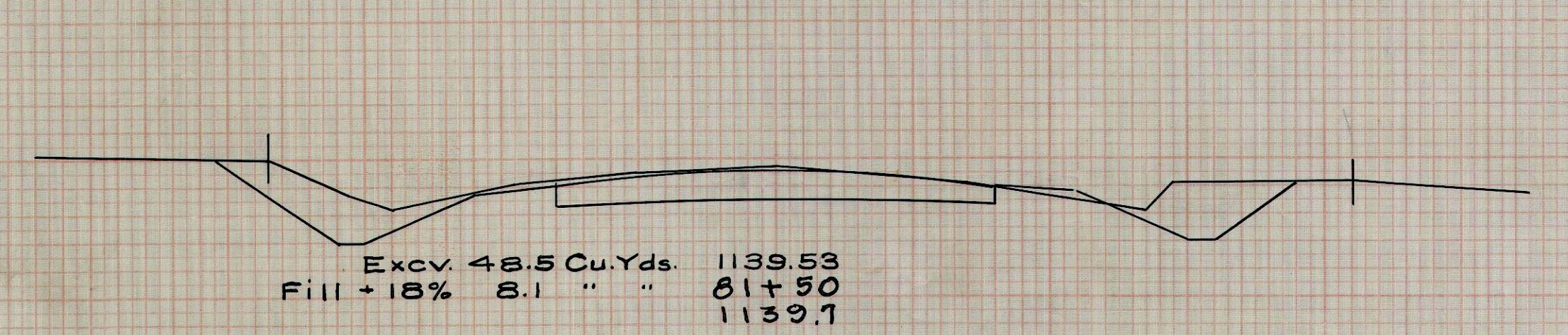
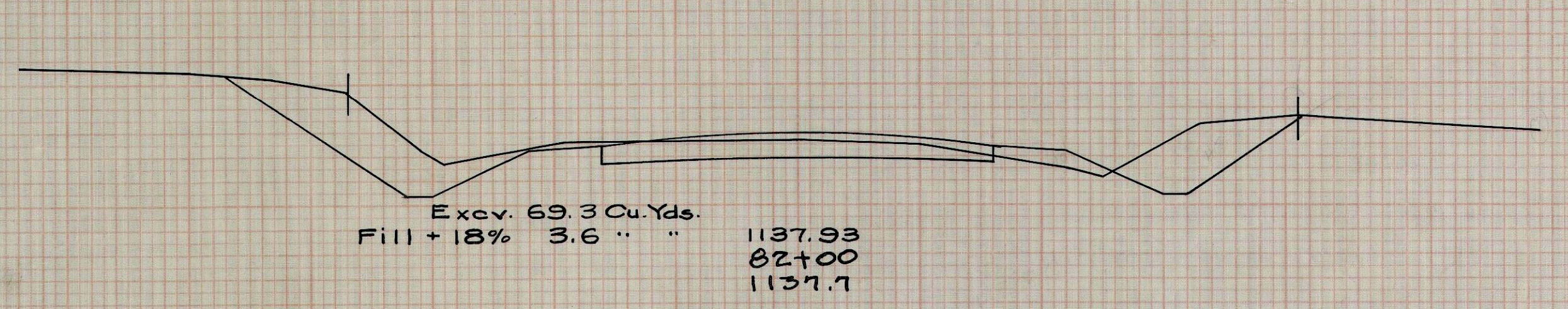
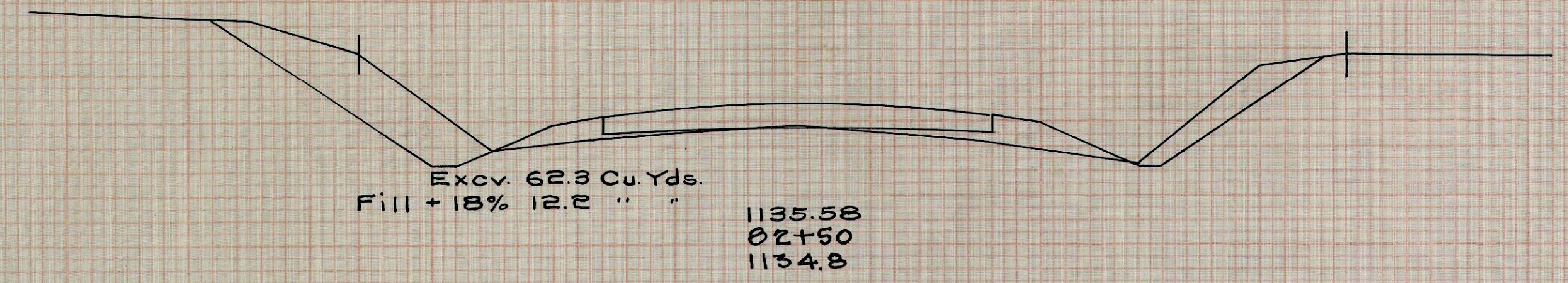
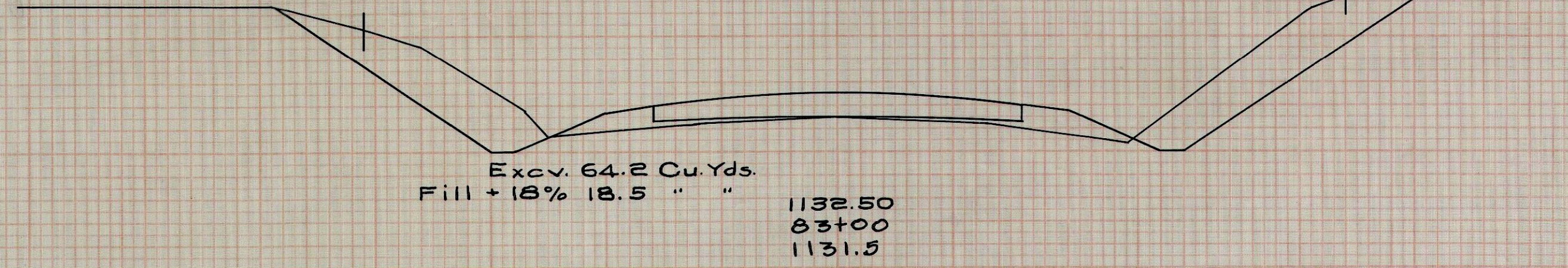
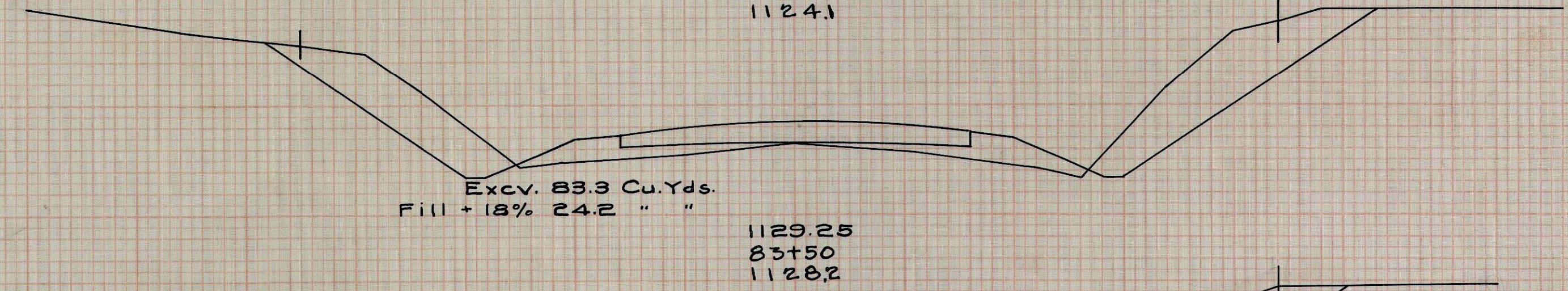
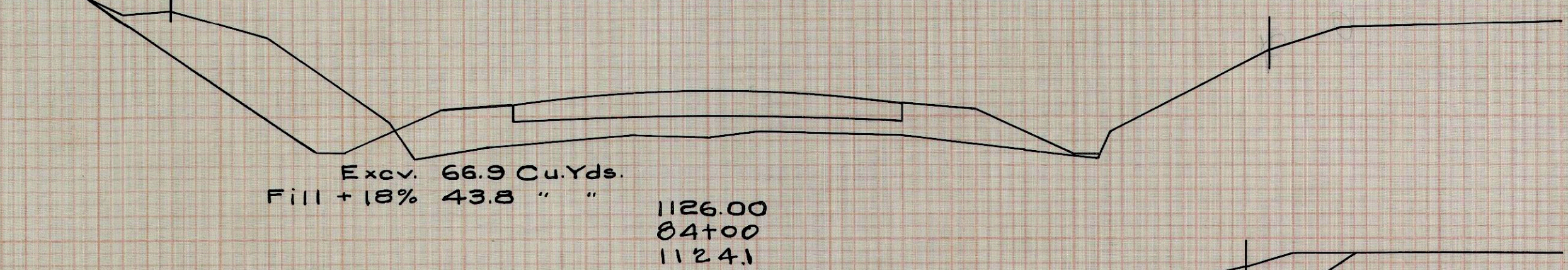
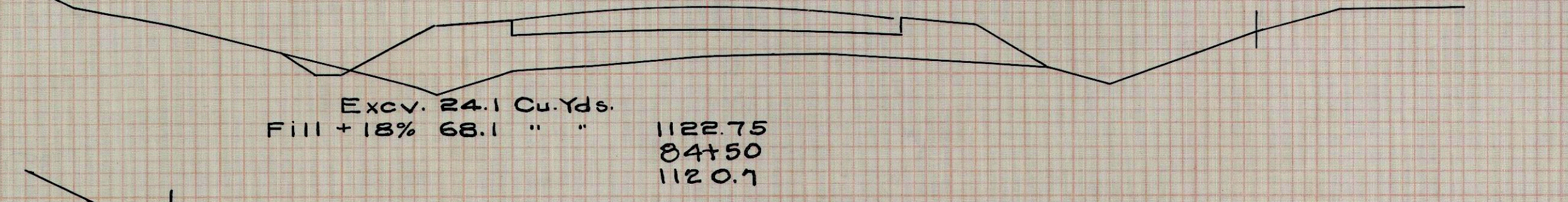
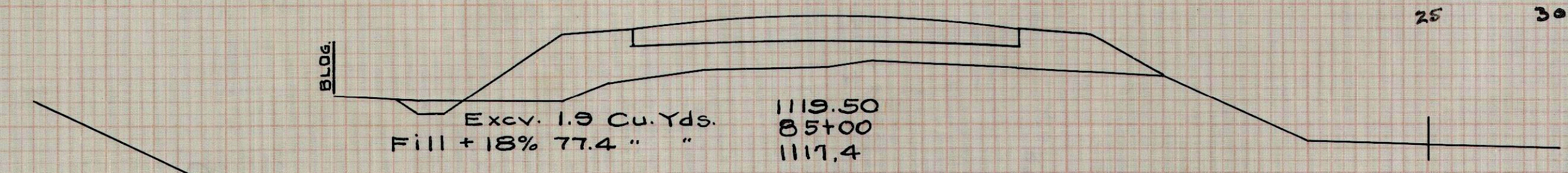
Sec'D Road No. 158  
MILLERSBURG-MASSILLON RD  
Salt Creek Township  
HOLMES COUNTY

16  
24

25 30



30 25 20 15 10 5 0 5 10 15 20 25 30



30 25 20 15 10 5 0 5 10 15 20 25 30

FINAL SURVEY

ORIGINAL SURVEY



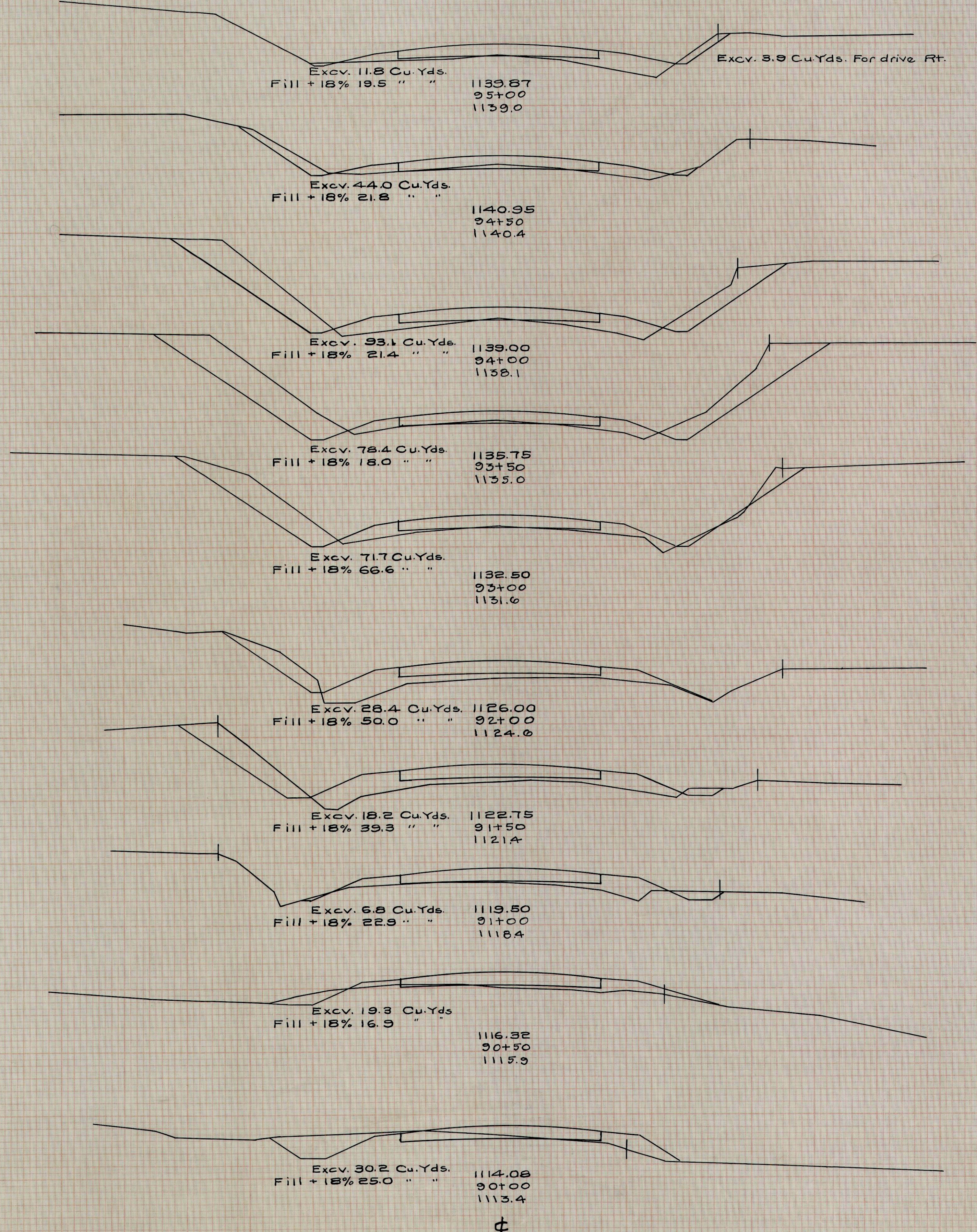
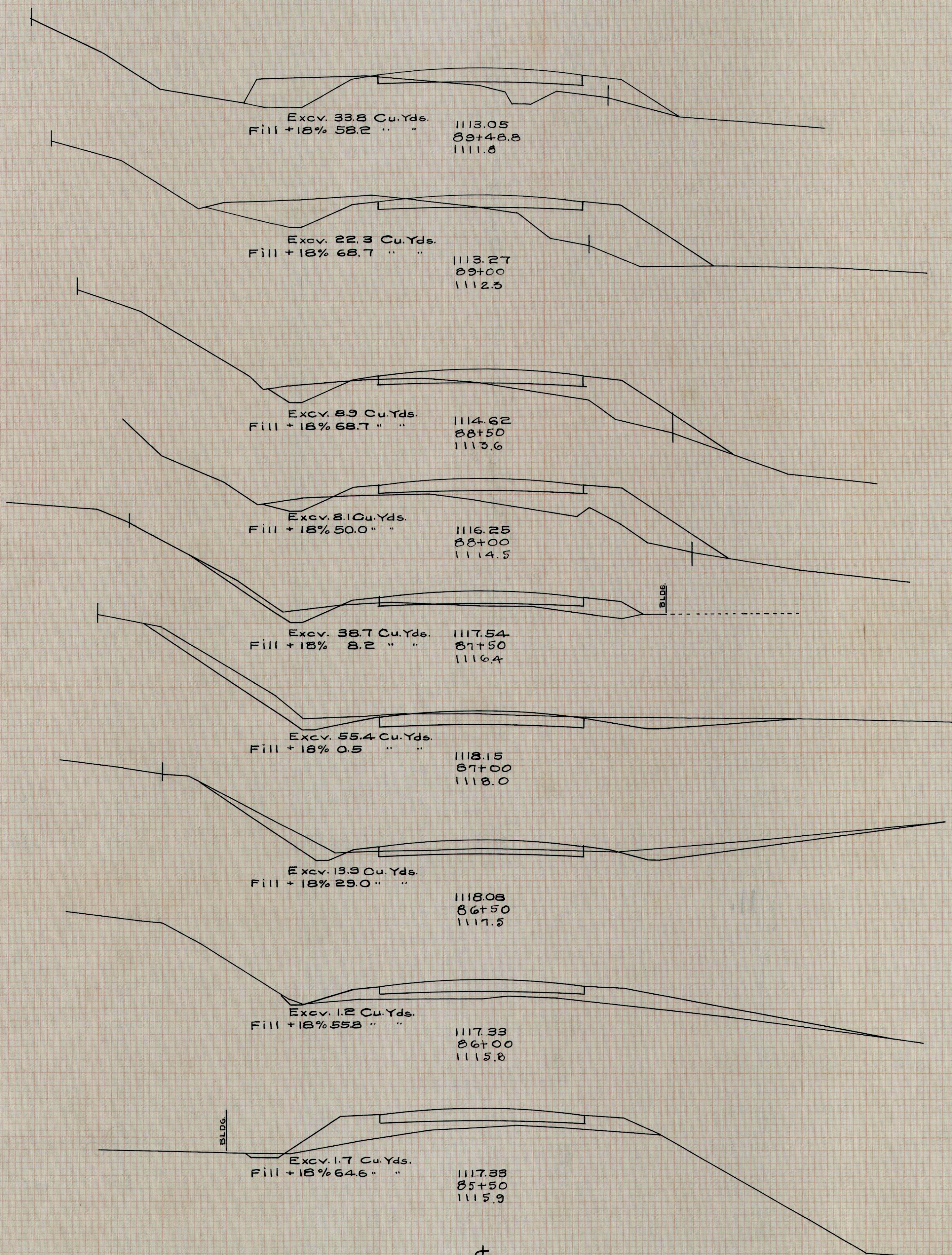
30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20

Sec'D Road No 158  
MILLERSBURG-MASSILLON RD.  
Salt Creek  
HOLMES  
Township  
COUNTY

17  
24

25 30



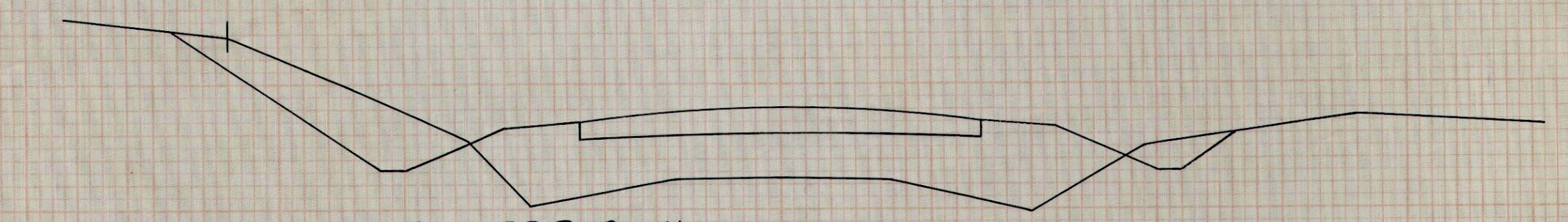
30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20 25 30

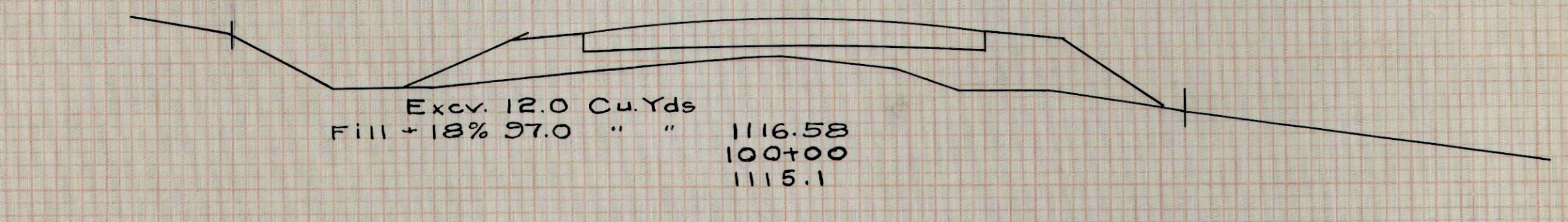


30 25 20 15 10 5 0 5 10 15 20 25 30

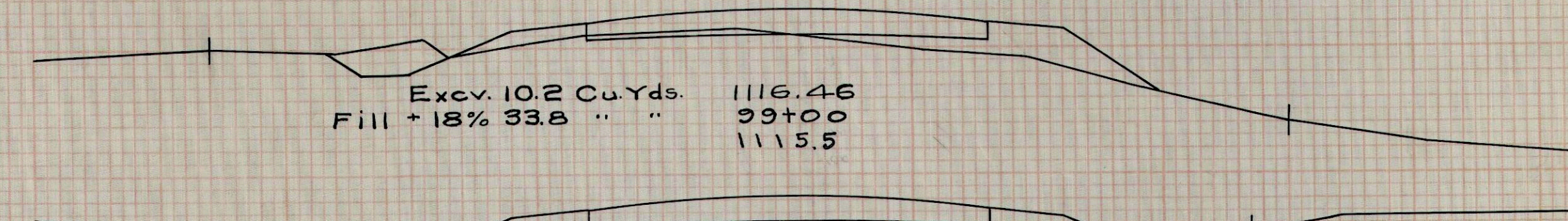
30 25 20 15 10 5 0 5 10 15 20



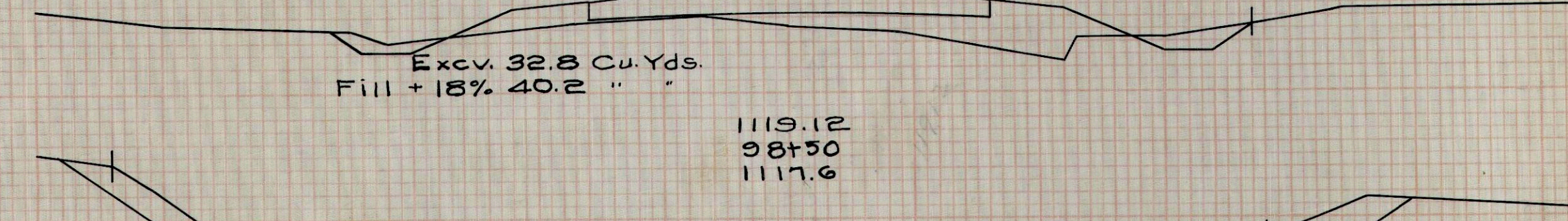
Excav. 22.2 Cu.Yds.  
Fill + 18% 31.6 " " 1119.00  
100+50  
1116.2



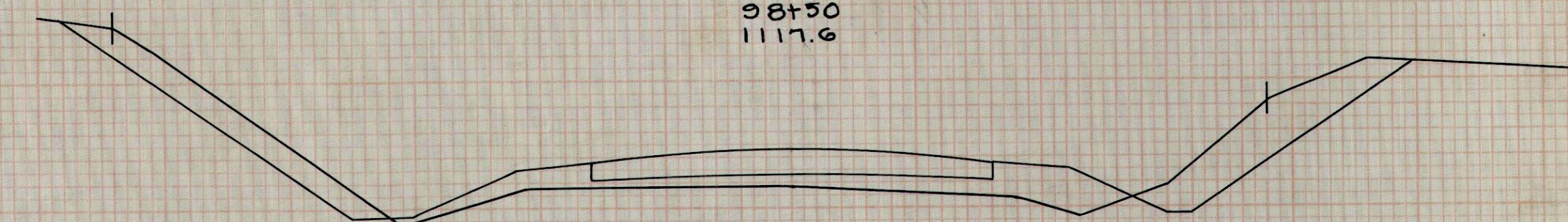
Excav. 12.0 Cu.Yds.  
Fill + 18% 37.0 " " 1116.58  
100+00  
1115.1



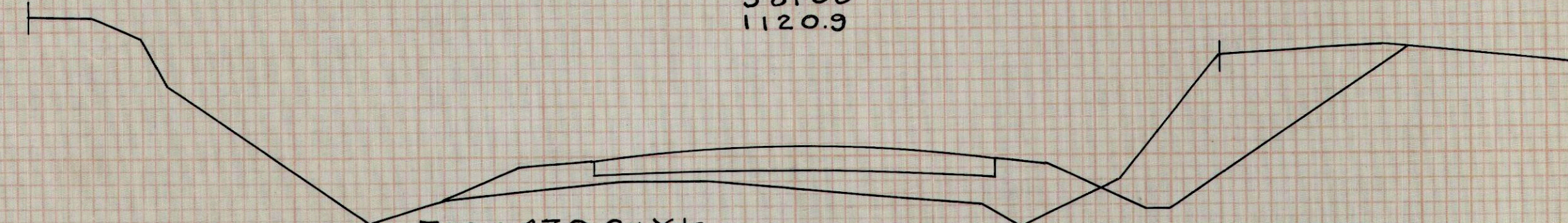
Excav. 10.2 Cu.Yds.  
Fill + 18% 33.8 " " 1116.46  
99+00  
1115.5



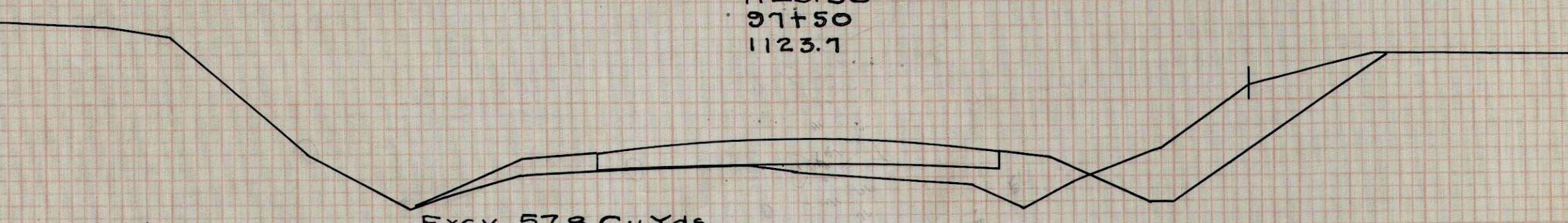
Excav. 32.8 Cu.Yds.  
Fill + 18% 40.2 " " 1119.12  
98+50  
1117.6



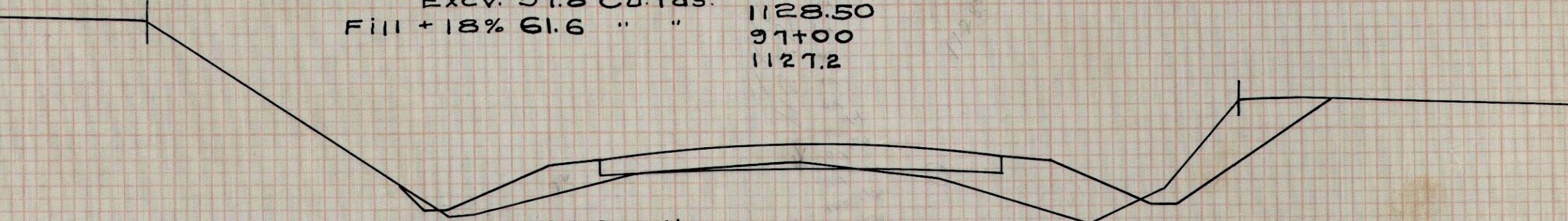
Excav. 57.9 Cu.Yds.  
Fill + 18% 44.2 " " 1122.25  
98+00  
1120.9



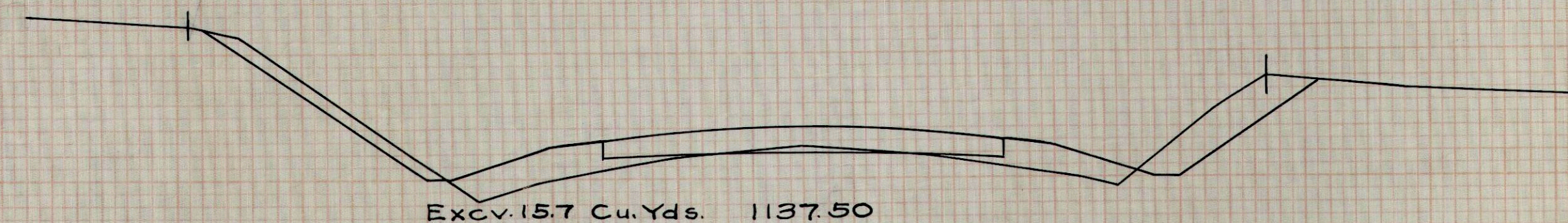
Excav. 47.0 Cu.Yds.  
Fill + 18% 37.2 " " 1125.38  
97+50  
1123.1



Excav. 57.8 Cu.Yds.  
Fill + 18% 61.6 " " 1128.50  
97+00  
1127.2

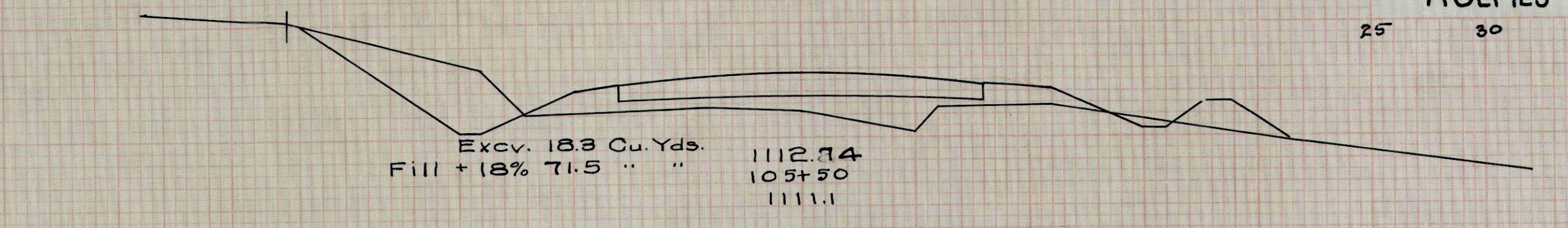


Excav. 24.1 Cu.Yds.  
Fill + 18% 31.6 " " 1134.50  
96+00  
1133.8

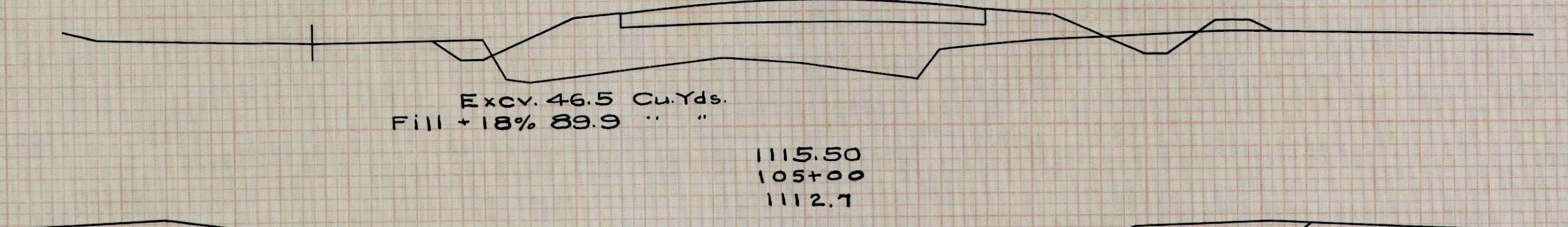


Excav. 15.7 Cu.Yds.  
Fill + 18% 26.6 " " 1137.50  
95+50  
1136.8

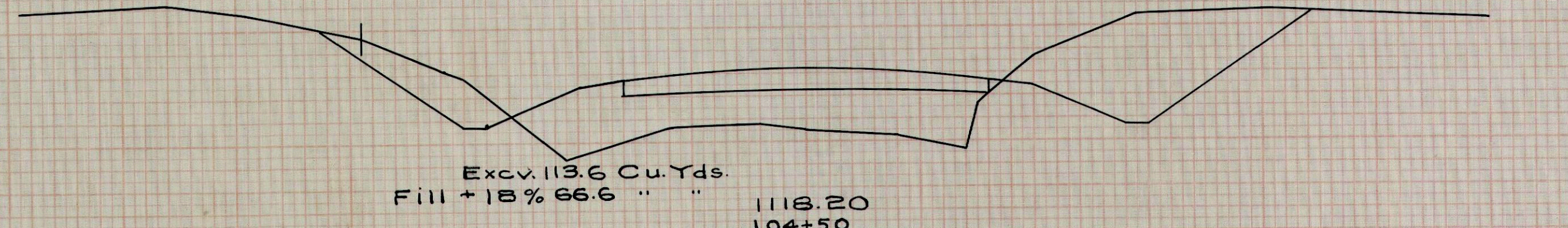
30 25 20 15 10 5 0 5 10 15 20 25 30



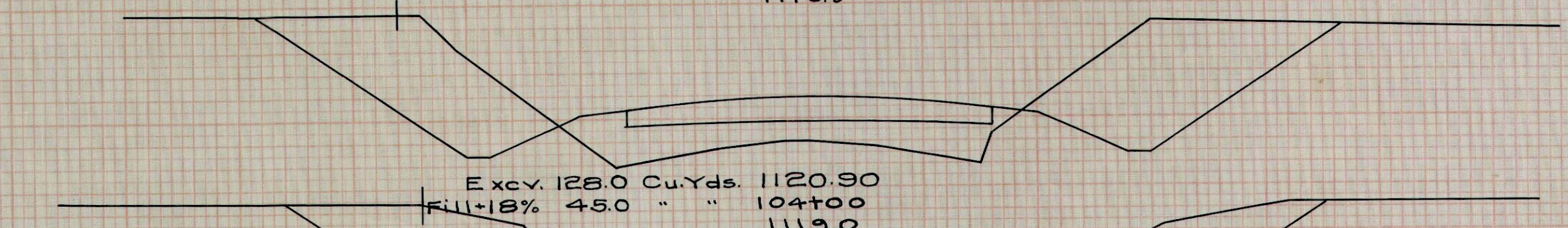
Excav. 18.3 Cu.Yds.  
Fill + 18% 71.5 " " 1112.74  
105+50  
1111.1



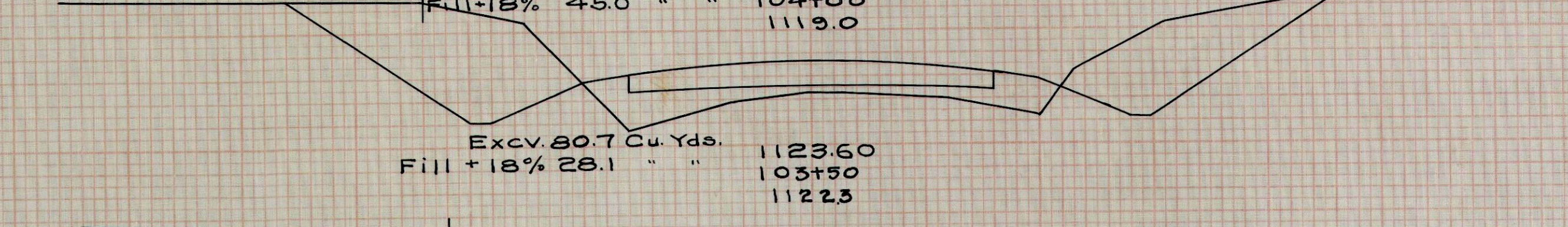
Excav. 46.5 Cu.Yds.  
Fill + 18% 89.9 " " 1115.50  
105+00  
1112.7



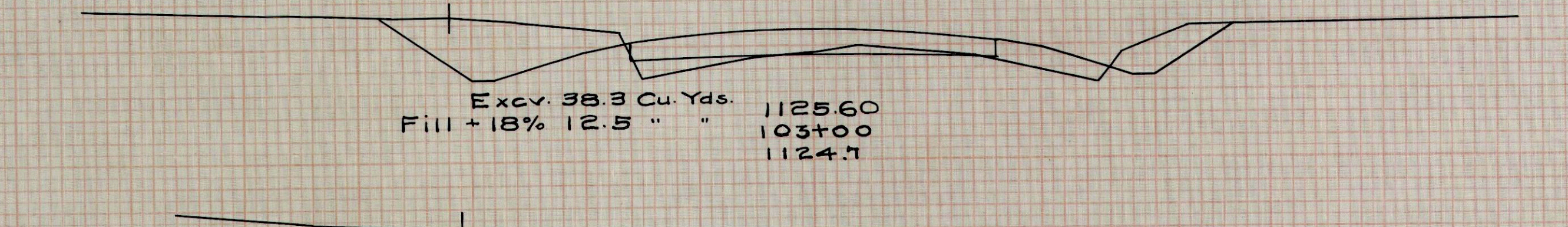
Excav. 113.6 Cu.Yds.  
Fill + 18% 66.6 " " 1118.20  
104+50  
1115.5



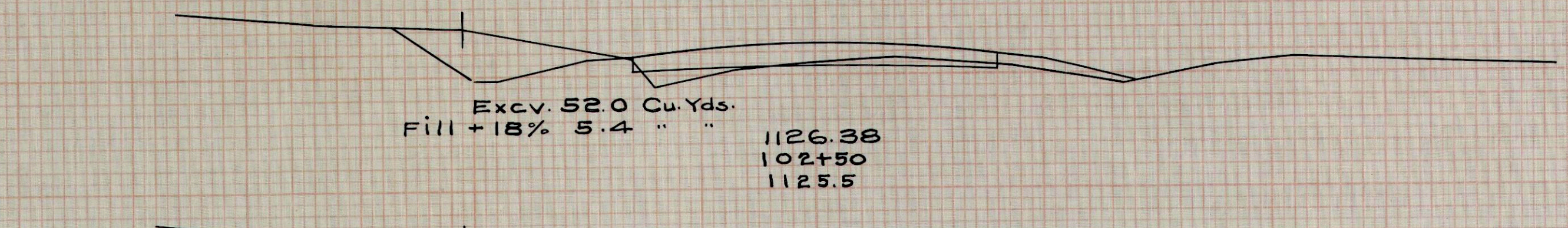
Excav. 128.0 Cu.Yds.  
Fill + 18% 45.0 " " 1120.90  
104+00  
1119.0



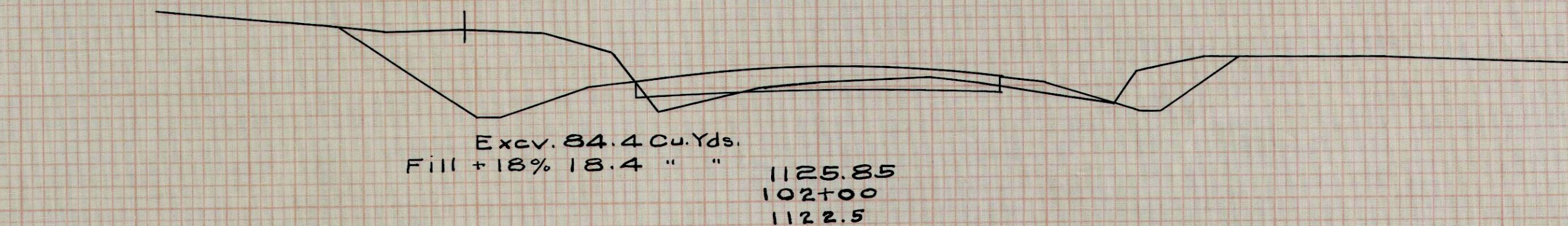
Excav. 80.7 Cu.Yds.  
Fill + 18% 28.1 " " 1123.60  
103+50  
1122.3



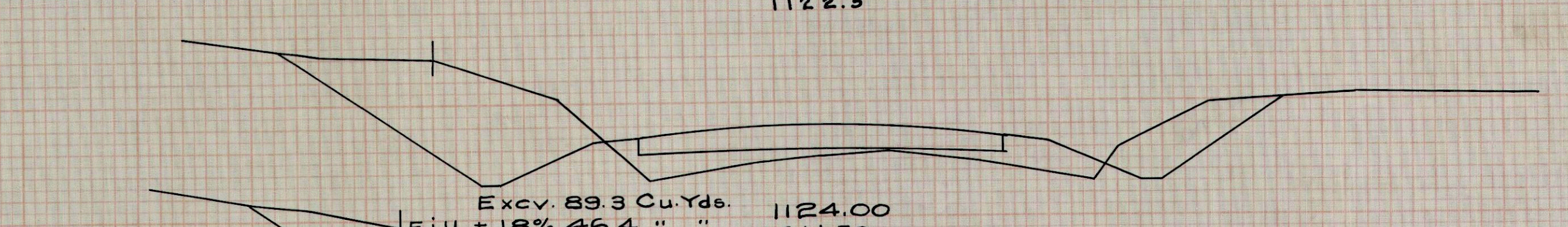
Excav. 38.3 Cu.Yds.  
Fill + 18% 12.5 " " 1125.60  
103+00  
1124.7



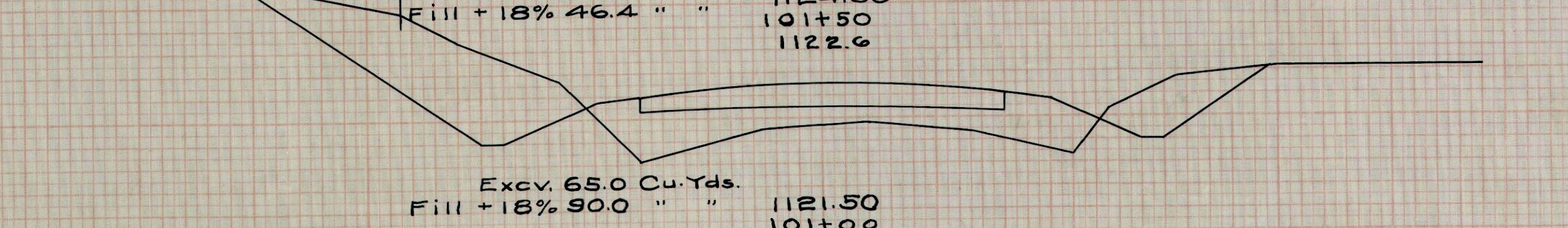
Excav. 52.0 Cu.Yds.  
Fill + 18% 5.4 " " 1126.38  
102+50  
1125.5



Excav. 84.4 Cu.Yds.  
Fill + 18% 18.4 " " 1125.85  
102+00  
1122.5



Excav. 89.3 Cu.Yds.  
Fill + 18% 46.4 " " 1124.00  
101+50  
1122.6



Excav. 65.0 Cu.Yds.  
Fill + 18% 90.0 " " 1121.50  
101+00  
1119.6

30 25 20 15 10 5 0 5 10 15 20 25 30

1115.69  
99+51.4  
1114.8

FINAL SURVEY MAP NO. 1115.69

ORIGINAL SURVEY MAP NO. 1115.69



30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20

Sec'D Road No. 158,  
MILLERSBURG MASSILLON RD.  
Salt Creek Township  
HOLMES COUNTY

19  
24

Excav. 54.9 Cu.Yds.  
Fill + 18% 38.6 " " 1093.33  
110+00  
1092.8

Excav. 9.0 Cu.Yds.  
Fill + 18% 74.3 " " 1091.95  
109+50  
1090.0

Excav. 38.1 Cu.Yds.  
Fill + 18% 61.9 " " 1092.17  
109+00  
1090.2

Excav. 37.2 Cu.Yds.  
Fill + 18% 104.9 " " 1093.97  
108+50  
1091.6

Excav. 24.7 Cu.Yds.  
Fill + 18% 115.2 " " 1097.10  
108+00  
1093.6

Excav. 32.2 Cu.Yds.  
Fill + 18% 88.9 " " 1100.35  
107+50  
1097.6

Excav. 52.8 Cu.Yds.  
Fill + 18% 69.9 " " 1103.60  
107+00  
1101.1

Excav. 101.2 Cu.Yds.  
Fill + 18% 36.1 " " 1106.78  
106+50  
1104.5

Excav. 76.4 Cu.Yds.  
Fill + 18% 30.5 " " 1109.83  
106+00  
1108.5

Excav. 10.7 Cu.Yds. 1080.10  
Fill + 18% 83.1 " " 115+50  
1078.2

Excav. 4.2 Cu.Yds. 1080.72  
Fill + 18% 80.0 " " 115+00  
1078.6

Excav. 8.5 Cu.Yds. 1081.80  
Fill + 18% 60.0 " " 114+50  
1079.8

Excav. 35.2 Cu.Yds. 1083.54  
Fill + 18% 25.5 " " 114+00  
1081.6

Excav. 67.6 Cu.Yds. 1085.75  
Fill + 18% 5.0 " " 113+50  
1084.6

Excav. 115.2 Cu.Yds. 1088.00  
Fill + 18% 13.1 " " 113+00  
1082.2

Excav. 45.4 Cu.Yds. 1092.50  
Fill + 18% 42.6 " " 112+00  
1091.4

Excav. 58.3 Cu.Yds. 1095.81  
Fill + 18% 16.0 " " 111+00  
1094.8

Excav. 105.8 Cu.Yds. 1095.33  
Fill + 18% 1.0 " " 110+50  
1095.6

109+21  
1090.0

115+38  
1078.3

30 25 20 15 10 5 0 5 10 15 20 25 30

30 25 20 15 10 5 0 5 10 15 20 25 30







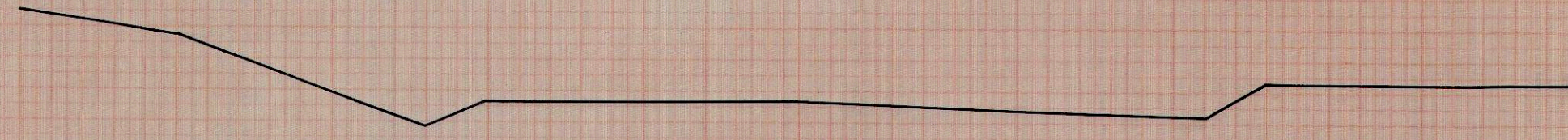
30 25 20 15 10 5 0 5 10 15 20 25 30

Sec. D Road No 158  
Millersburg-Massillon Rd  
Salt Creek Township  
HOLMES COUNTY

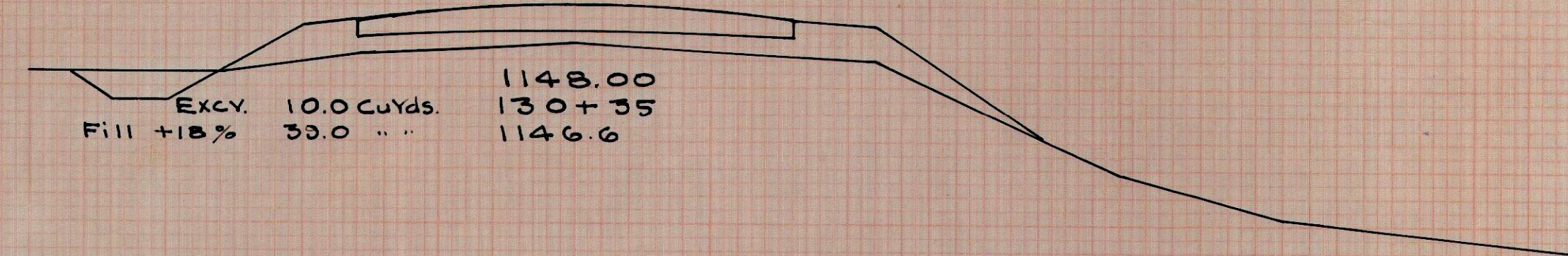
21  
24

DATE  
BY  
NO.  
NO.

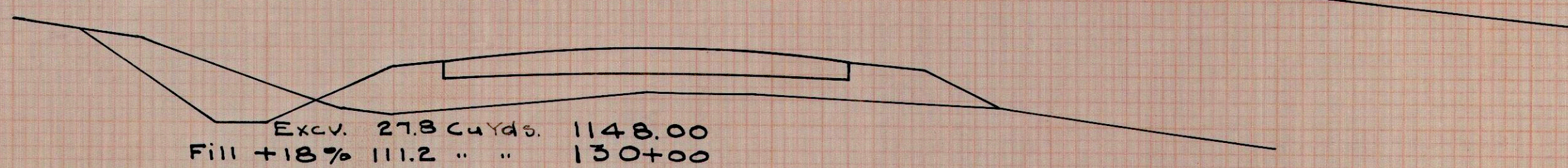
DATE  
BY  
NO.  
NO.



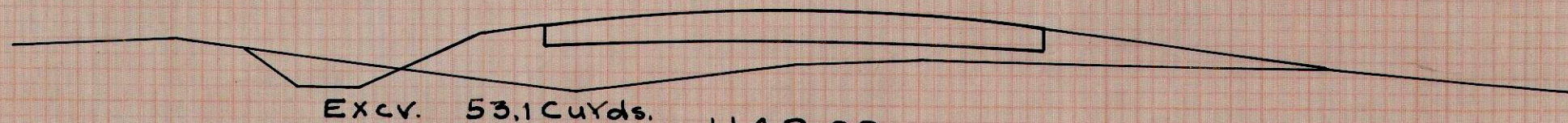
Approach 131+00  
Exc. 12.2 CuYds. 1147.7  
Fill +18% 35.8 " "



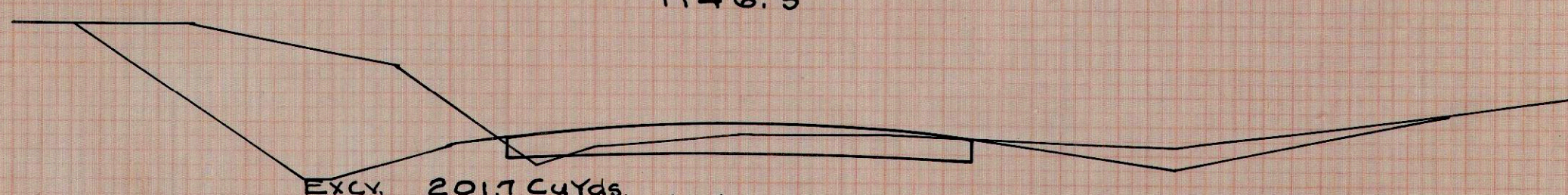
Exc. 10.0 CuYds. 1148.00  
Fill +18% 39.0 " " 130+35  
1146.6



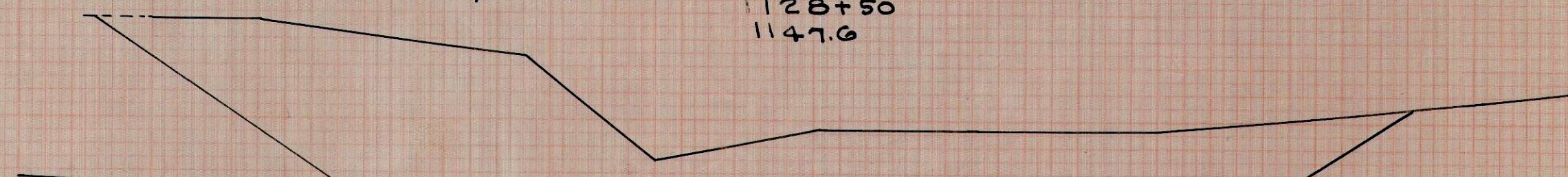
Exc. 27.8 CuYds. 1148.00  
Fill +18% 111.2 " " 130+00  
1146.2



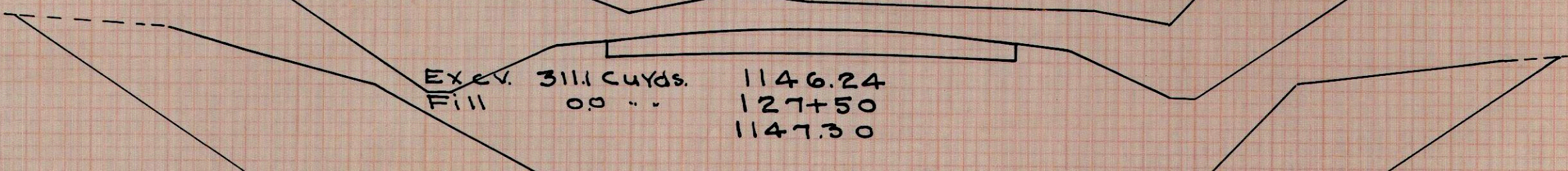
Exc. 53.1 CuYds. 1148.00  
Fill +18% 24.6 " " 129+00  
1146.3



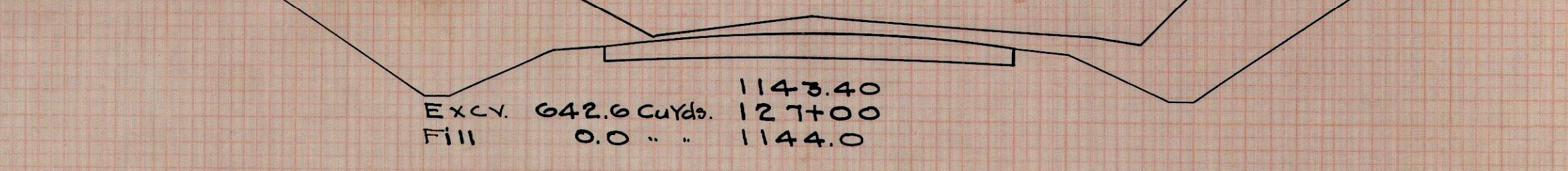
Exc. 201.7 CuYds. 1148.00  
Fill +18% 0.0 " " 128+50  
1147.6



Exc. 299.1 CuYds. 1147.79  
Fill 0.0 " " 128+00  
1149.6



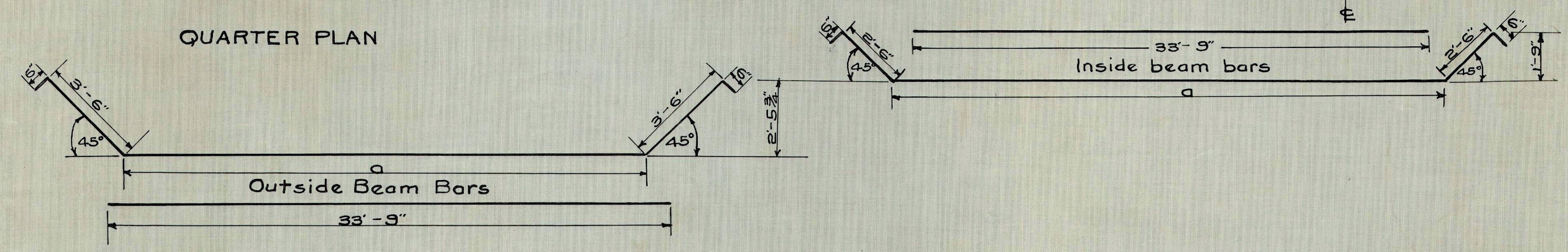
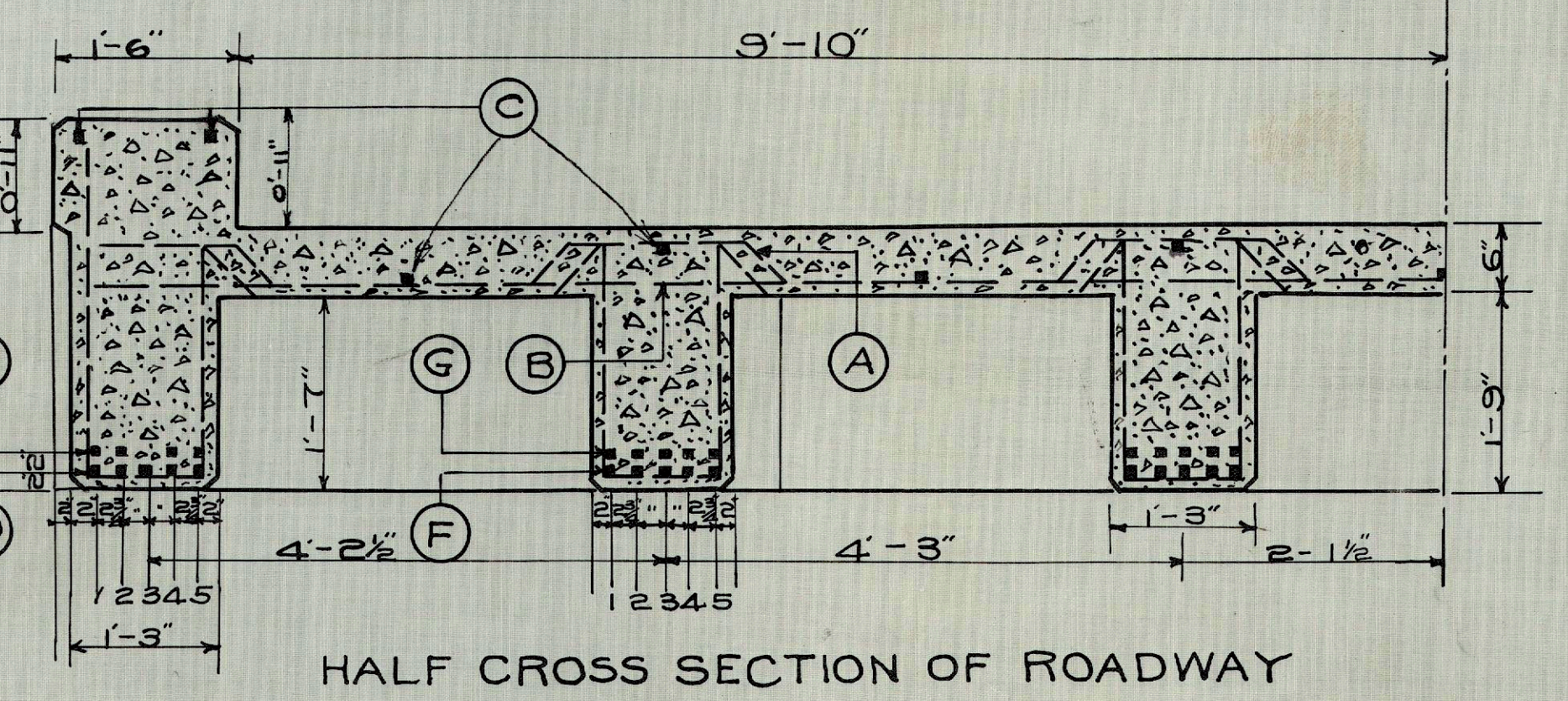
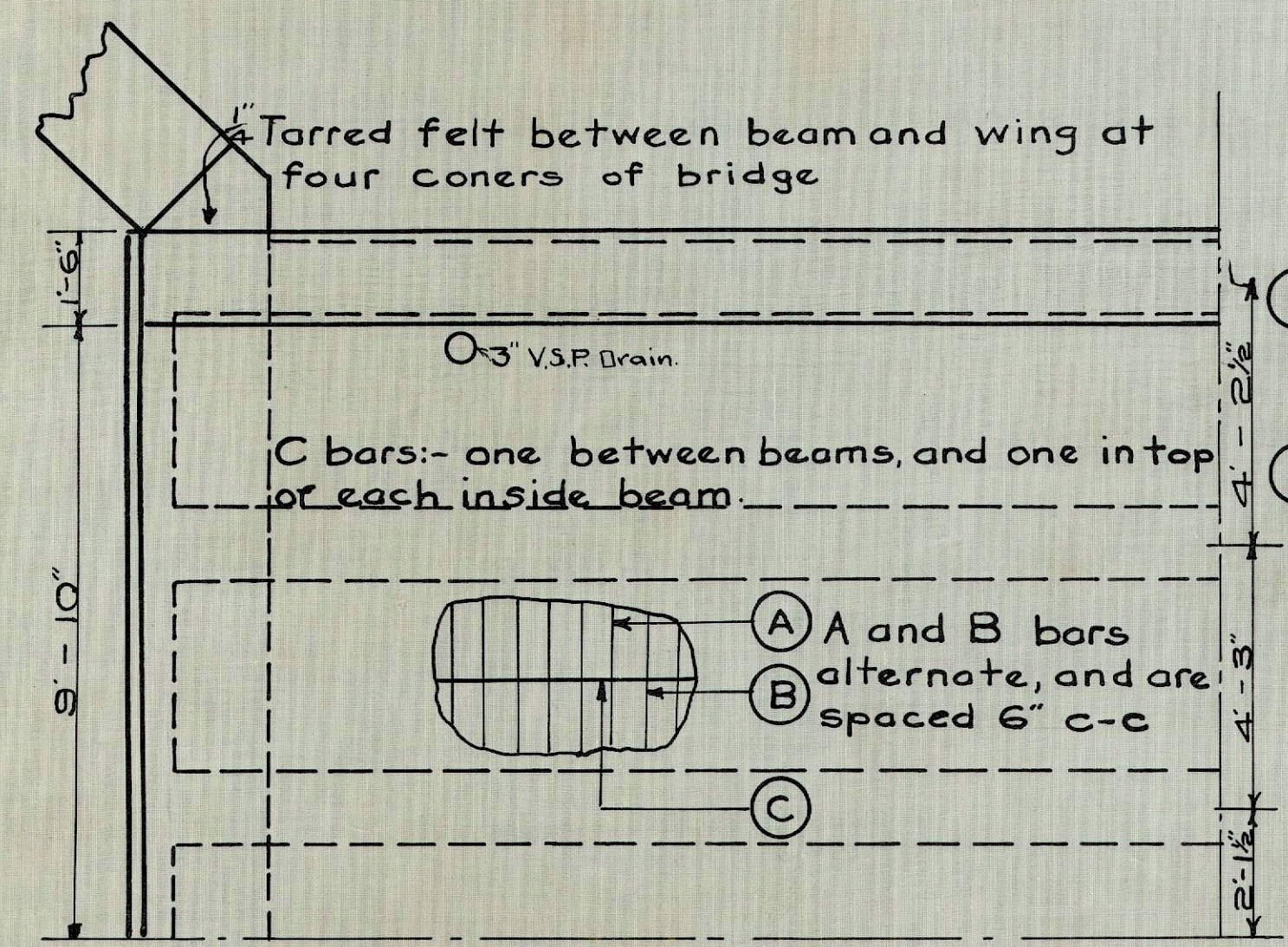
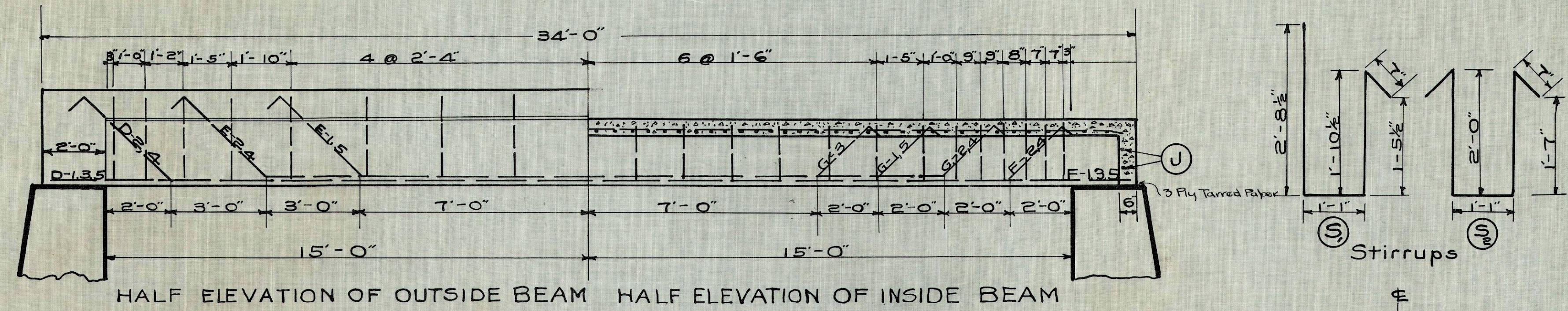
Exc. 311.1 CuYds. 1146.24  
Fill 0.0 " " 127+50  
1147.30



Exc. 642.6 CuYds. 1143.40  
Fill 0.0 " " 127+00  
1144.0

30 25 20 15 10 5 0 5 10 15 20 25 30





No	Mark	Size	Length	Total Weight
2	D-1	3/4" x 2 1/2"	33'-9"	128
2	D-2	"	26'-0"	129
2	D-3	"	33'-9"	128
2	D-4	"	26'-0"	129
2	D-5	"	33'-9"	128
2	E-2	"	20'-0"	106
2	E-1	"	14'-0"	84
2	E-5	"	14'-0"	84
2	E-4	"	20'-0"	106
34	S	3/8" x 2 1/2"	6'-3"	102

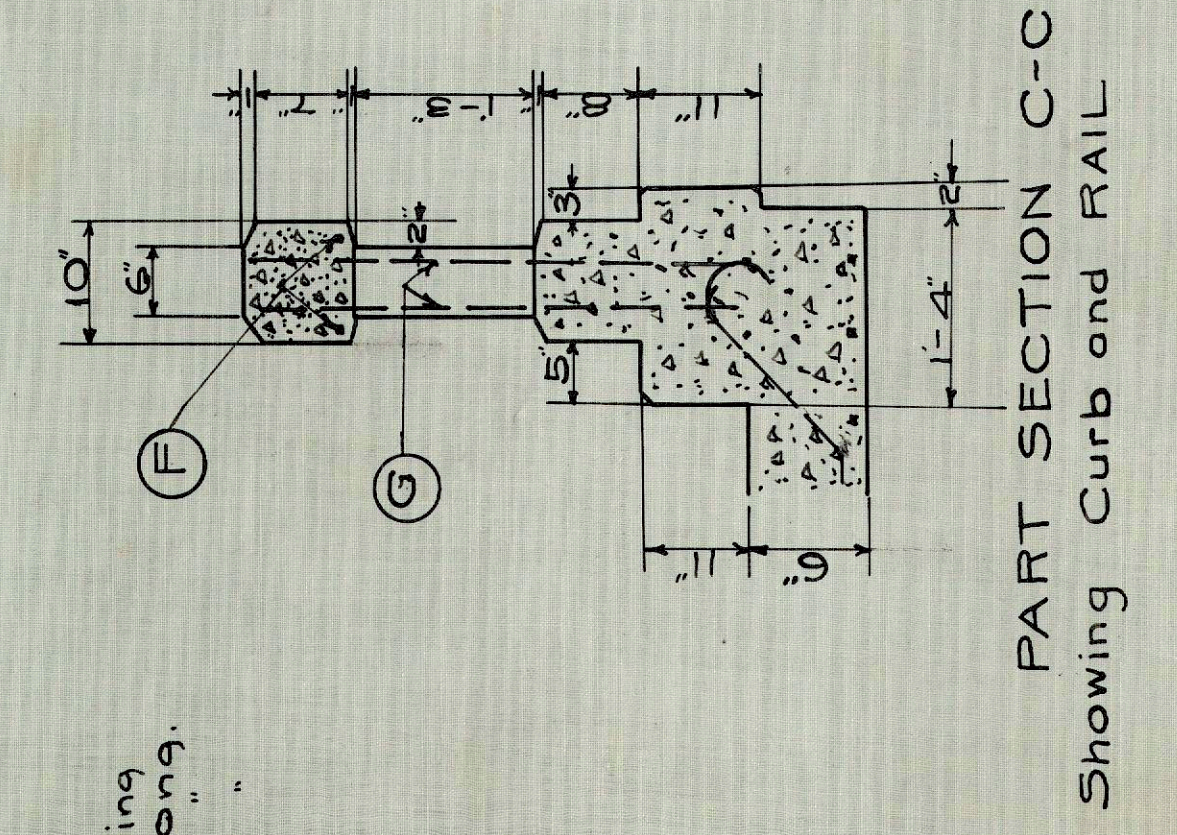
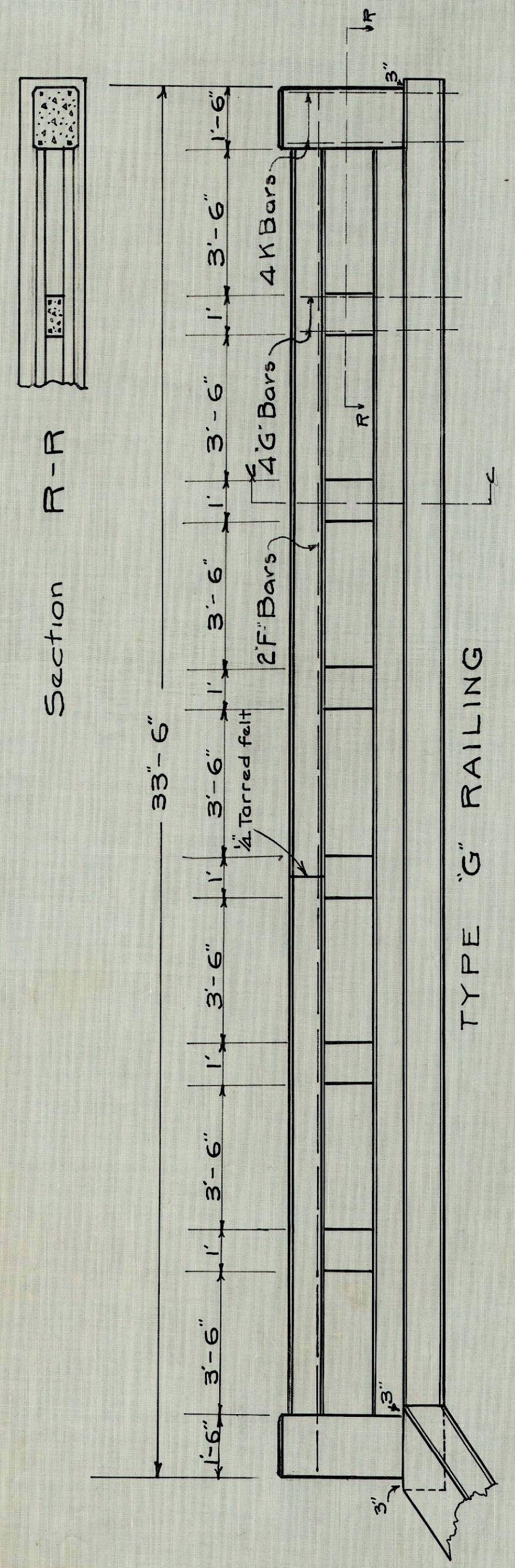
No	Mark	Size	Length	Total Weight
33	A	1/2" x 2 1/2"	23'-0"	645
13	B	"	22'-0"	617
4	C	3/8" x 2 1/2"	33'-9"	211
4	J	1/2" x 2 1/2"	22'-0"	75

No	Mark	Size	Length	Total Weight
4	F-1	3/4" x 2 1/2"	33'-9"	351
4	F-2	"	26'-0"	333
4	F-3	"	33'-9"	351
4	F-4	"	26'-0"	333
4	F-5	"	33'-9"	351
4	G-1	"	18'-0"	250
4	G-2	"	22'-0"	291
4	G-3	"	14'-0"	208
4	G-4	"	22'-0"	291
4	G-5	"	18'-0"	250
108	S <sub>2</sub>	3/8" x 2 1/2"	6'-3"	324

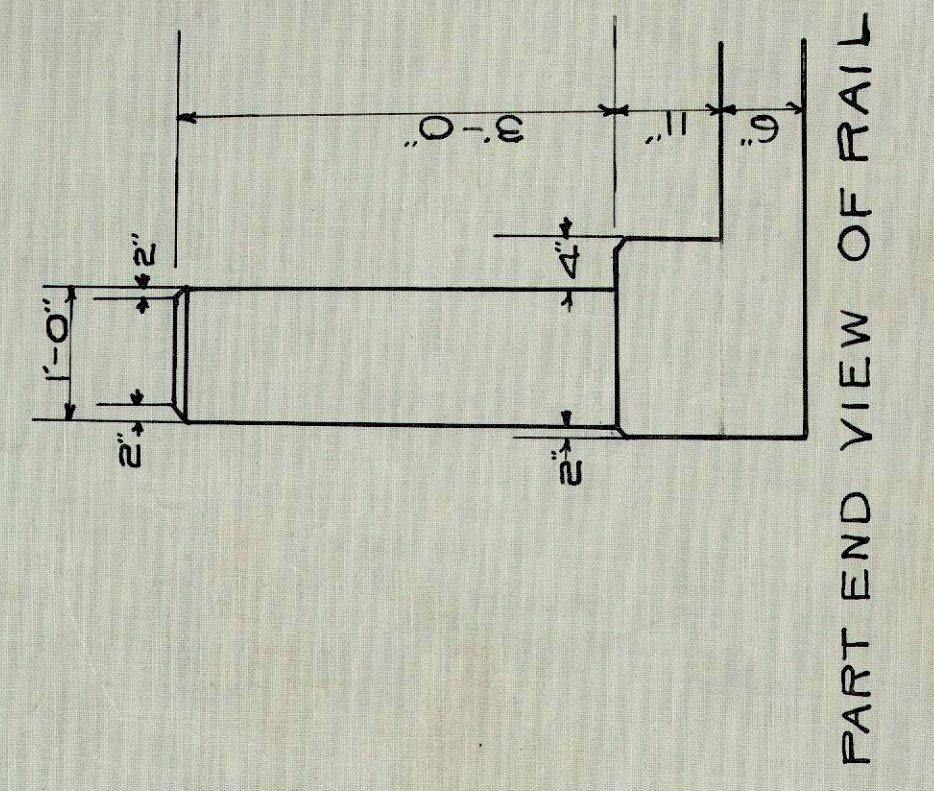
ESTIMATED QUANTITIES

1-2-3 Concrete 34.4 Cu. Yds.  
 Reinforcing Steel 6010 Lbs.  
 TYPE "G" RAILING 68 Lin. Ft.  
 Tarred felt expansion 26 Sq. Ft.  
 Tarred paper 3 Ply 56 Sq. Ft.  
 3" V.S.P. for Drains 4  
 Bar chairs, bar spacers and bar ties.

Note: Crushed stone - washed gravel shall be used in this bridge.

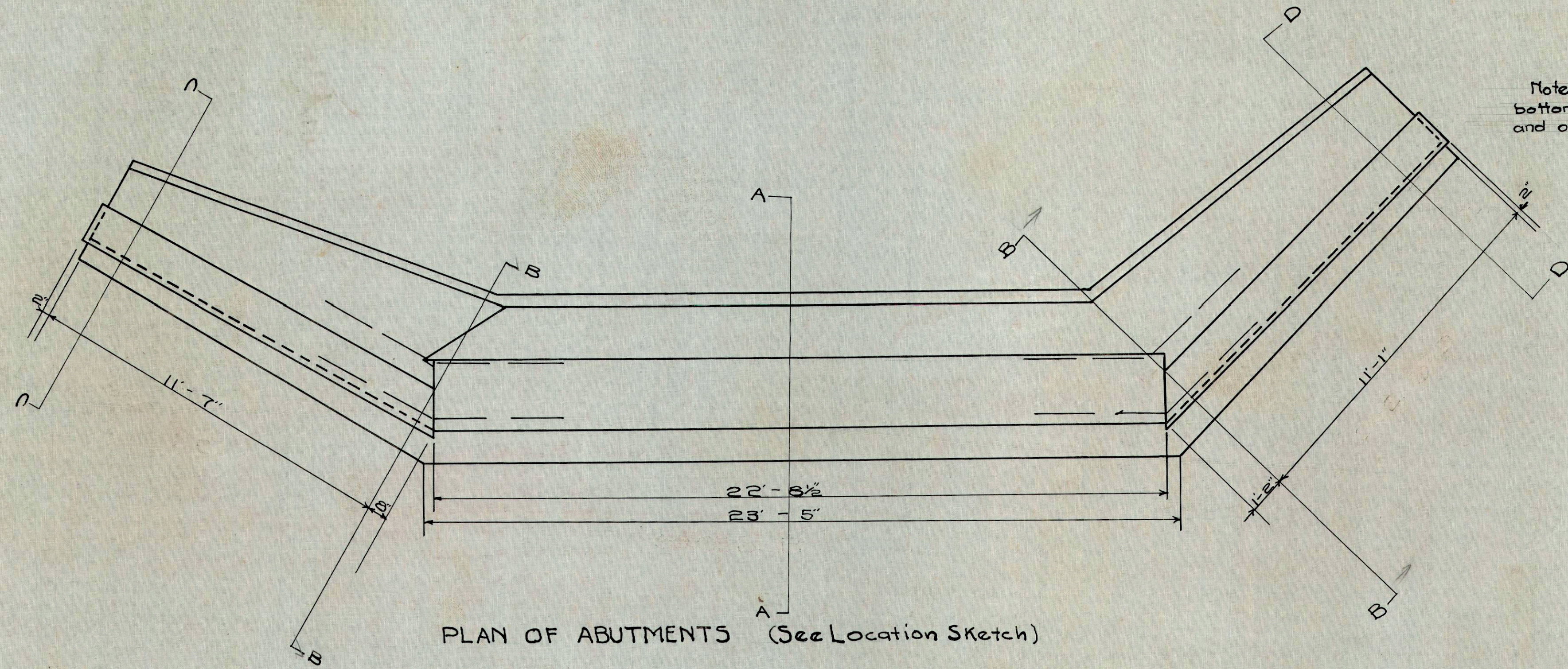


Steel list for Railing  
 4 "F" bars 3/4" x 33' long.  
 16 "K" " 3/8" x 4'0"  
 48 "G" " 3/8" x 3'6"

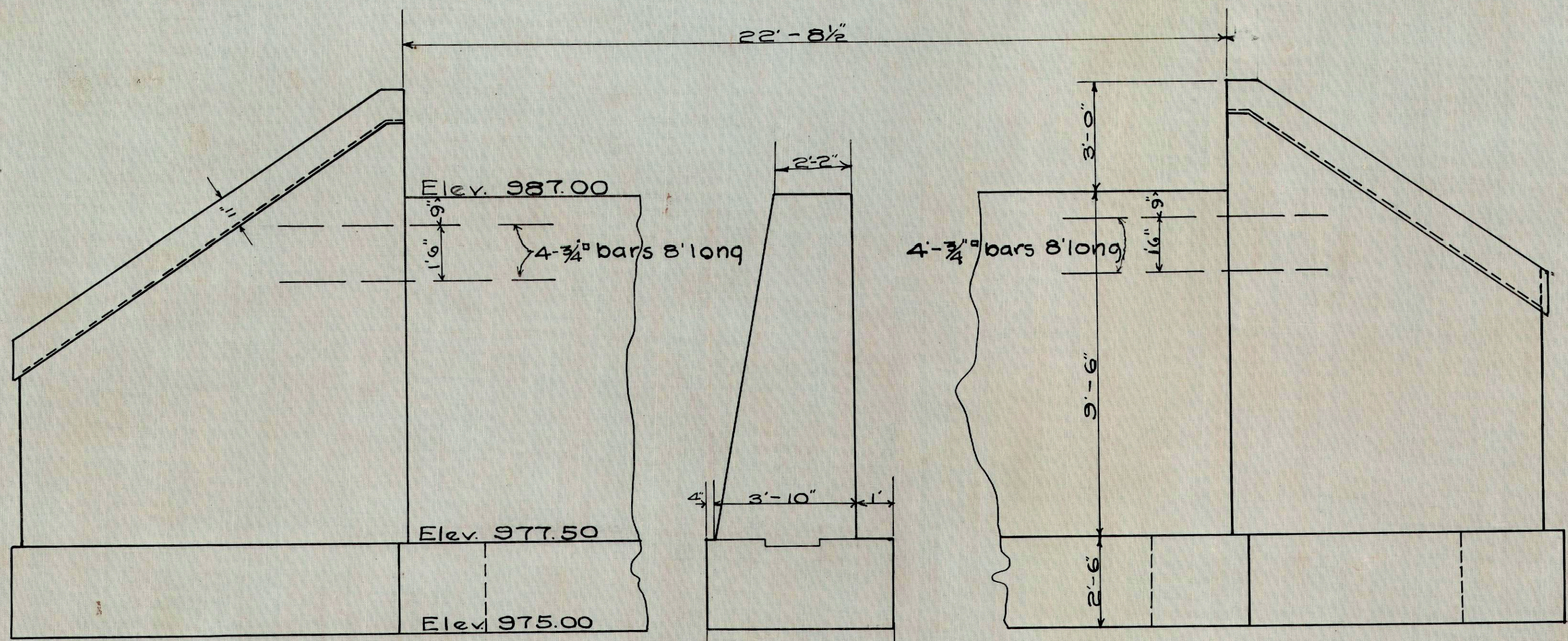
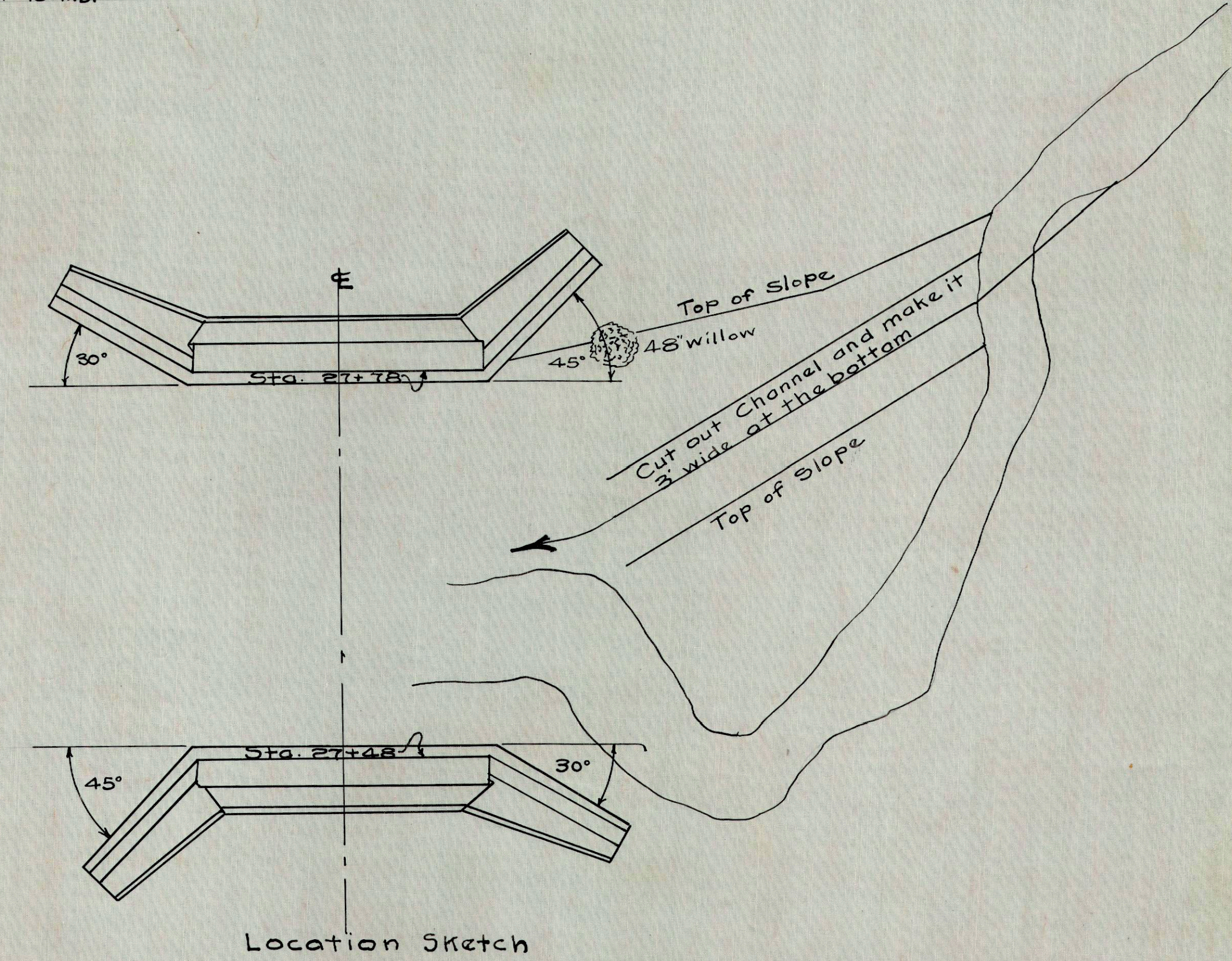


STANDARD PLAN  
 CONCRETE BEAM BRIDGE  
 CLEAR SPAN 30 Ft.  
 ROADWAY 20 Ft.





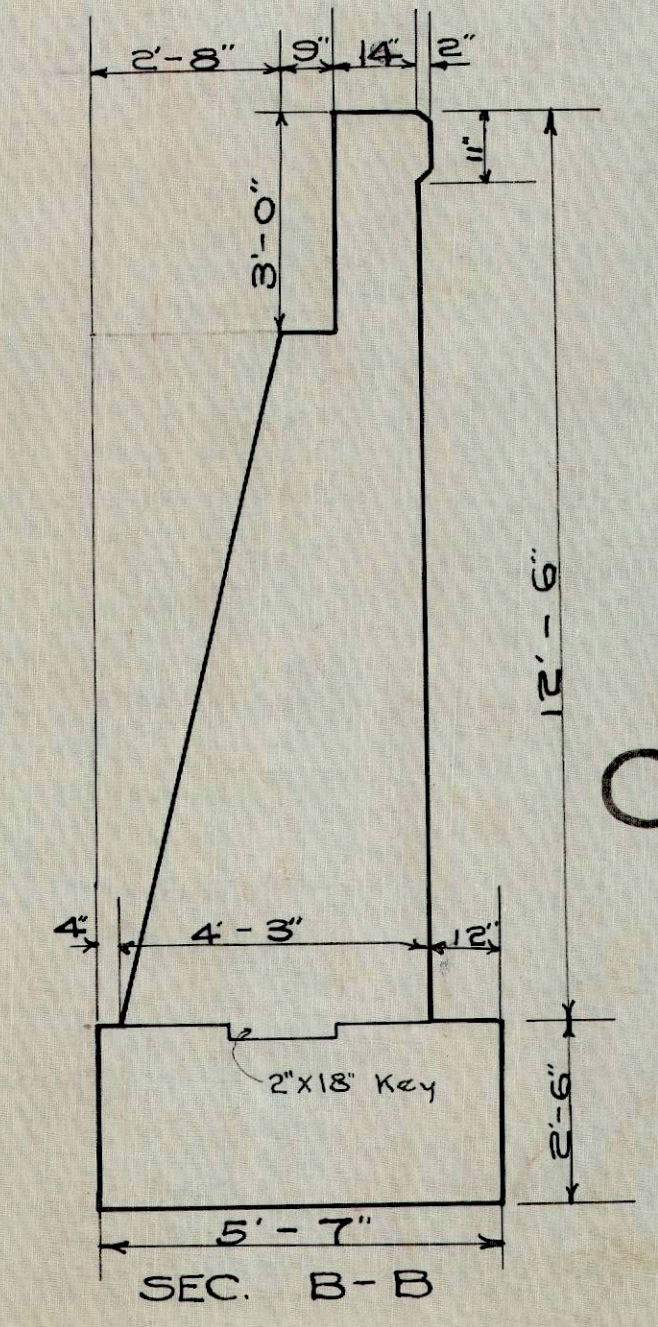
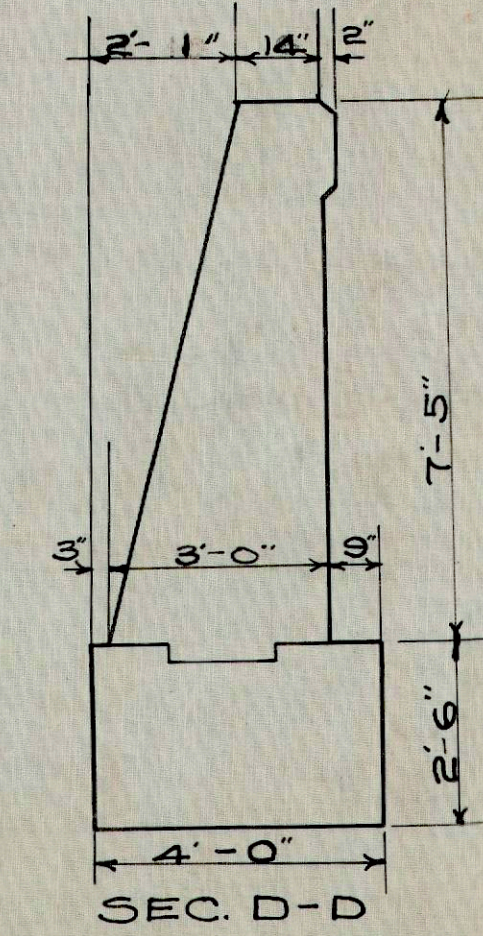
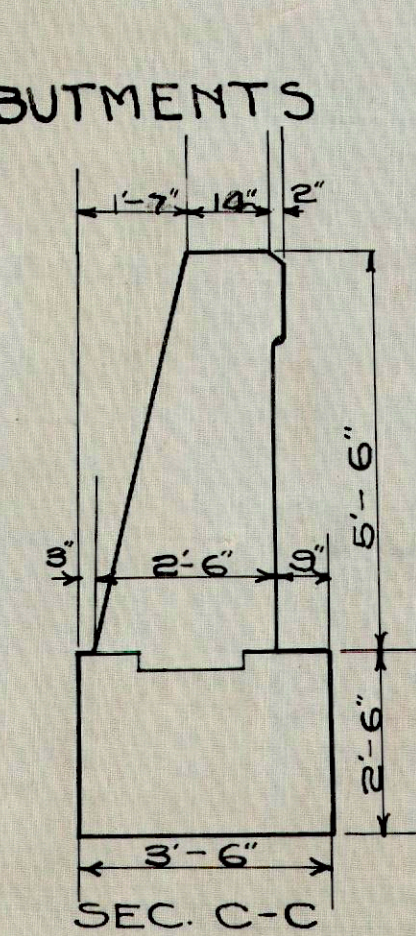
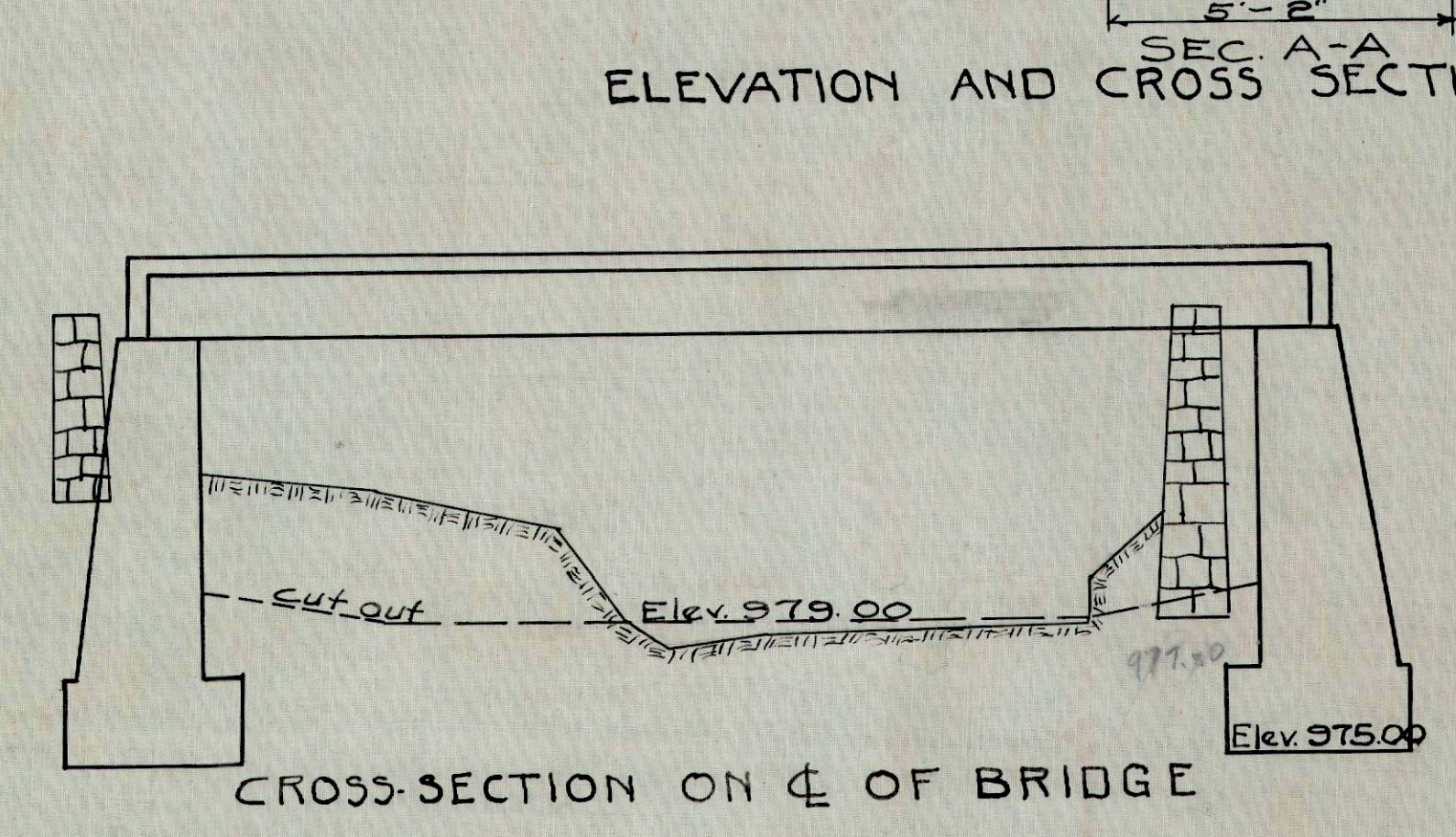
Note: Pumping pit must be excavated 6" below bottom of footer at downstream end of abutments and outside of forms.



ESTIMATED QUANTITIES

1-3-6 Concrete	41.0 Cu.Yds.
1-2 1/2-5 "	86.9 " "
Dry Excavation	204.0 " "
Wet "	113.6 " "
Channel "	134.0 " "
Steel	245. lb.

Note: Crushed stone + gravel shall be used in this bridge.



PLAN OF SUB-STRUCTURE CONCRETE BEAM BRIDGE

Sta. 27+63



SR 291 10/16/68

### ESTIMATED QUANTITIES

ROADWAY		ITEM	MATERIAL ITEM		
Excavation		R-1		13718	Cu. Yds.
Gravel 12" Center 8" Sides Compacted, Traffic Bound.		T-2		23255	Sq. Yds.
Finishing Slopes - Shoulders - Ditches Both sides		R-1		13035	Lin. Ft.
Loose gravel for approaches		T-2		85	Cu. Yds.
Guard Rail Type "E"		R-4		1416	Lin. Ft.
Clearing and Grubbing		R-3	6.7	368	Lin. Ft.
4" V.S.P. for under drain		S-1	3.1 + 2.1	0.6	Cu. Yds.
1-2-4 Conc. for Head Wall on underdrain out let					

PRIVATE DRIVES		ITEM	MATERIAL ITEM		
10" Corrg. Pipe for drives (3-14') (1-16') (1-20') (1-24')		S-7	6.4 (b-3)	102	Lin. Ft.
12" " " " (2-14')		S-7	6.4 (b-3)	28	" "
12" V.S.P. For approach Lt. Sta. 51+00		S-6	6.7	40	" "
10" Corrg. Pipe Relaid		S-7		16	" "
12" " " "		S-7		16	" "
15" " " "		S-7		14	" "
10" V.S.P. To be laid by contractor Left from Sta. 8+45 to 9+59		S-6	6.4	114	" "

CULVERTS		ITEM	MATERIAL ITEM		
Excavation		R-1		1786	Cu. Yds.
Channel Excavation		R-1		40	" "
1-2-3 Concrete		S-1	3.1 + 2.1 Crushed limestone + washed sand	58.8	" "
1-2-4 " "		S-1	3.1 + 2.1 " " " "	19.5	" "
Steel		S-2	7.1	3213	Lbs.
12" Sectional C.I.P.		S-7	6.1	66	Lin. Ft.
14" " " "		S-7	6.1	64	" "
16" " " "		S-7	6.1	64	" "
18" " " "		S-7	6.1	30	" "
20" " " "		S-7	6.1	30	" "
12" C.I.P. Relaid Sta. 30+22		S-7		20	" "
12" " " " " 64+45		S-7		32	" "

BRIDGE Sta. 27+63		ITEM	MATERIAL ITEM		
Excavation (Dry)		R-1		204.0	Cu. Yds.
" (Wet)		R-1		113.6	" "
" Channel		R-1		134.0	" "
Concrete 1-2-3 Mix		S-1	3.1 + 2.1 Crushed limestone + washed sand	34.4	" "
" 1-2 1/2-5 "		S-1	3.1 + 2.2 " " " "	86.9	" "
" 1-3-6 "		S-1	3.1 + 2.2 " " " "	41.0	" "
Reinforcing Steel		S-2	7.1	6255	" "
Tarred felt expansion 1/4"				26	Sq. Ft.
" paper 3 PLY				56	" "
Type "G" Railing		S-1	3.1 + 2.1	68	Lin. Ft.
3" V.S.P. Drains		S-6	6.7		
Bar Chairs - barties - bar spacers					
Removing old Structure					
Temporary bridge					