

# COUNTY HIGHWAY

BUREAU OF CONSTRUCTION

## KILLBUCK-GLENMONT ROAD

ROAD No. 5 SEC. C PET.  
 HOLMES COUNTY

RICHLAND TOWNSHIP

DECEMBER 1922

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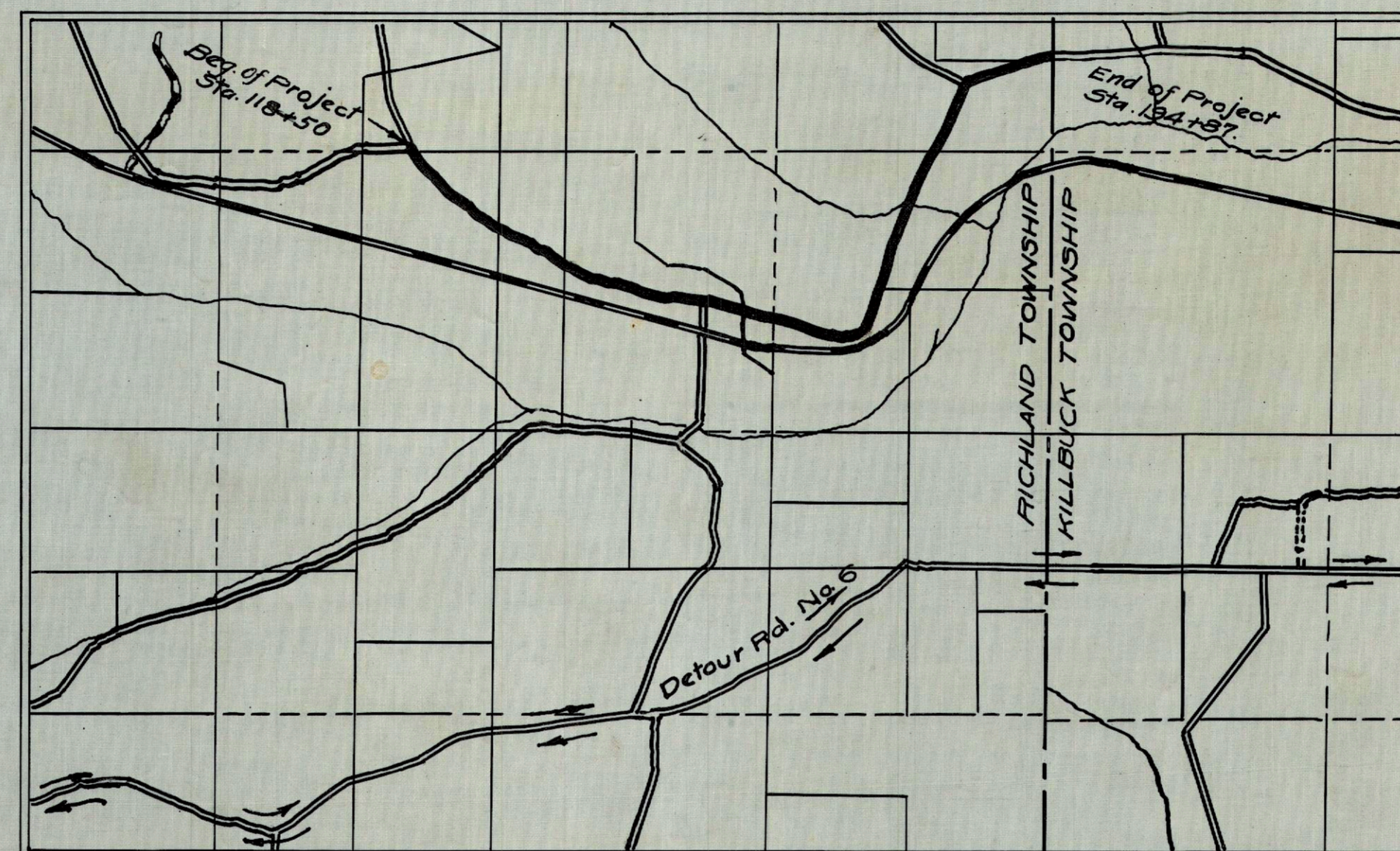
The Standard Specifications of the State of Ohio, Division of Highways, in force on date of contract will govern this improvement.

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 estimate.


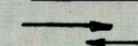
Approved:- W. W. Purdy  
 Date:- 3-23-23 County Surveyor

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 and repair of highway

H. A. Snyder  
D. J. Miller  
W. H. Allman  
 Date:- 3-23-23 County Commissioners

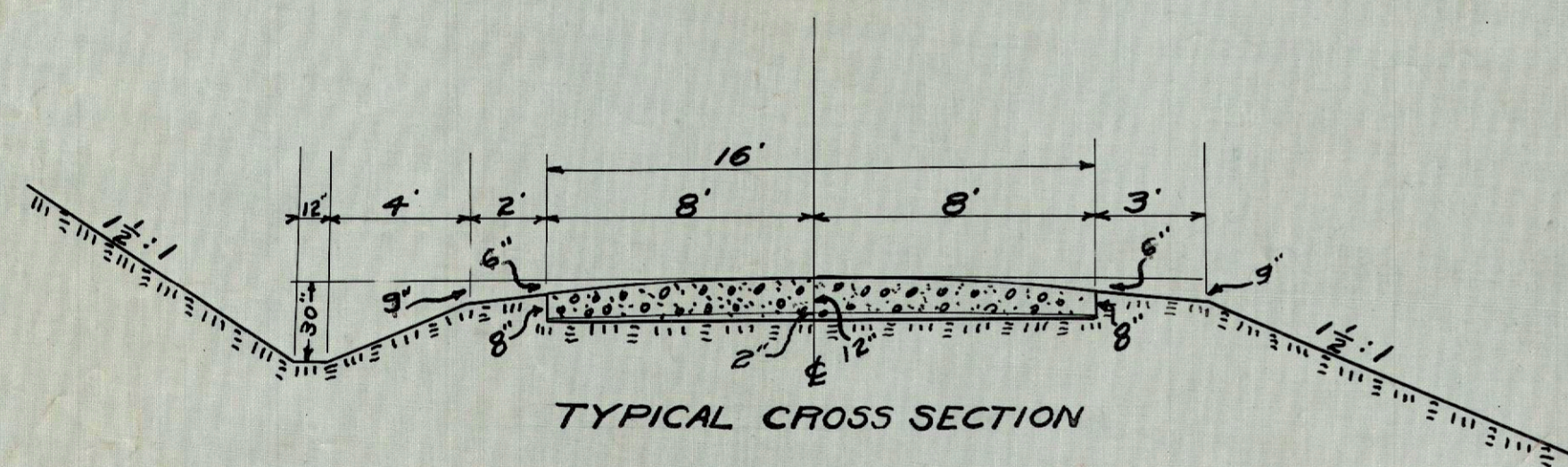


LOCATION PLAN

PORTION TO BE IMPROVED   
 DETOURS SHOWN THUS 

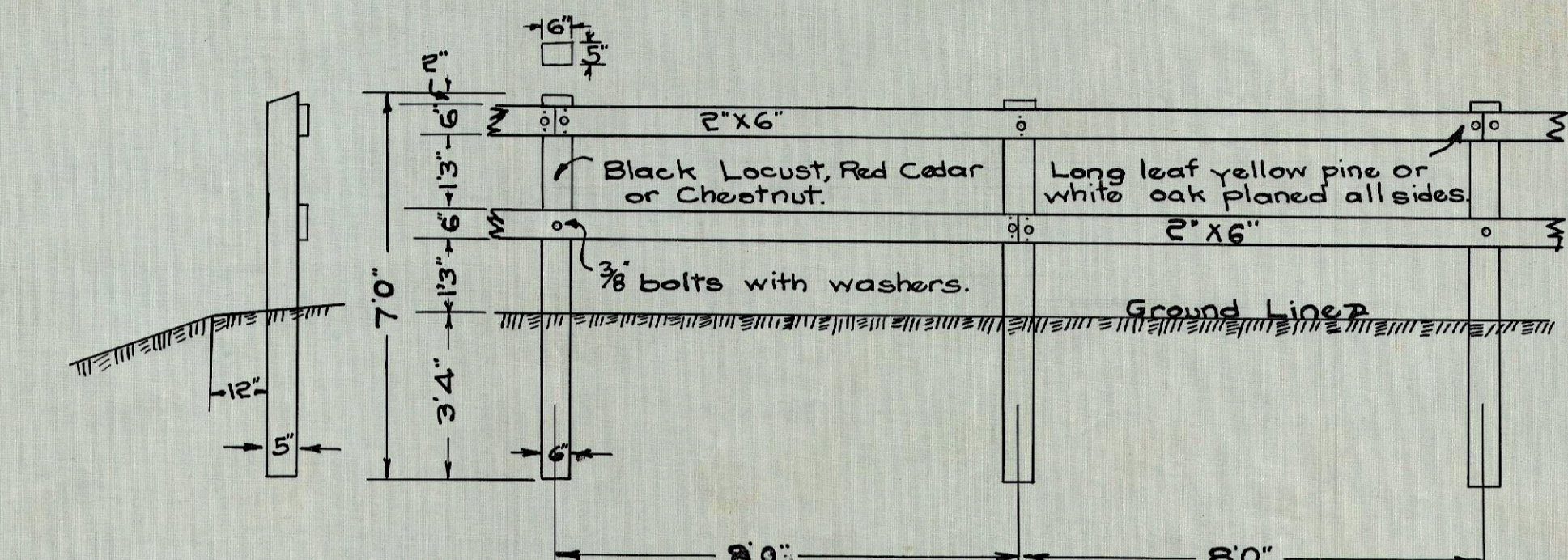
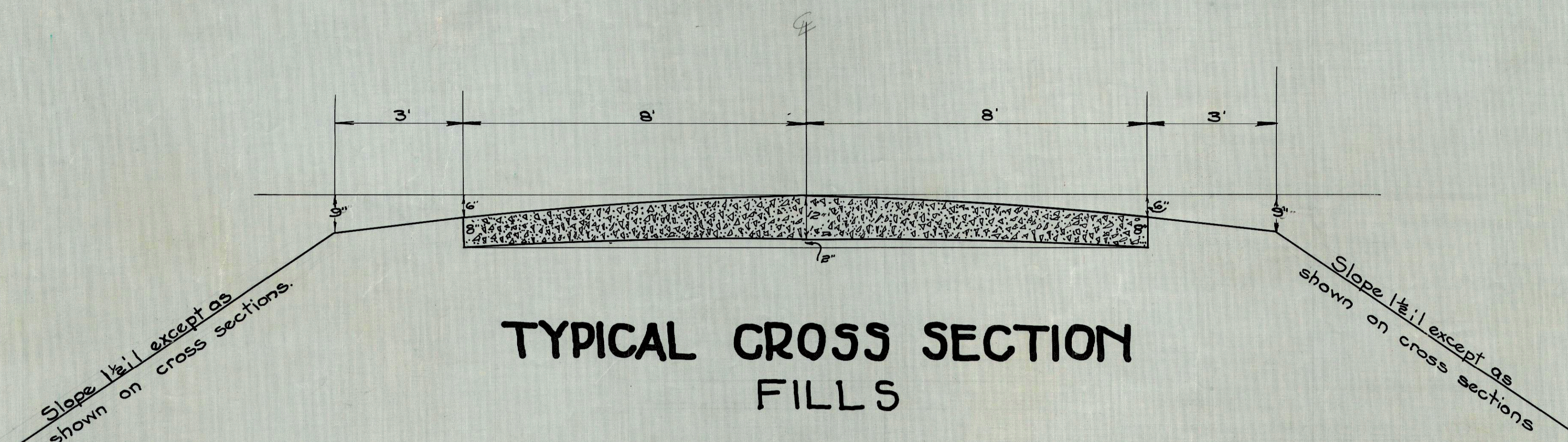
SCALES

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



TYPICAL CROSS SECTION

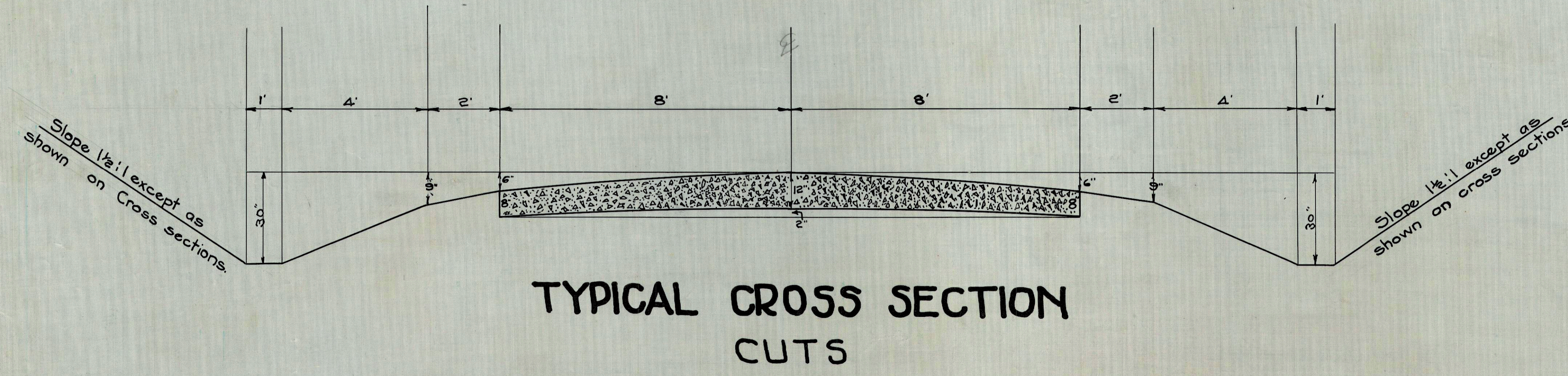




All surfaces in contact to be painted before assembling and all exposed surfaces to have two (2) coats of white lead and linseed oil paint.  
 Posts to be cut at top as shown on plan.  
 Rails to be secured to posts as shown, without splitting.  
 In order to secure proper alignment and grade, bolt holes shall be bored and the top of posts trimmed after the posts are set and the rails nailed to them.

**BILL OF MATERIALS  
 TWO PANELS**

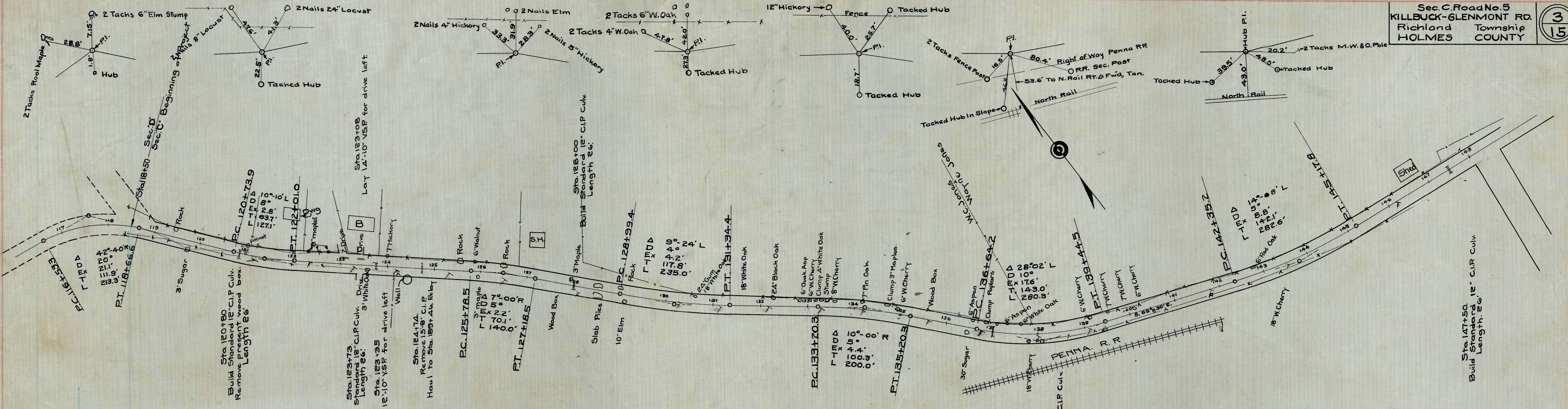
2	Wood Rails	2"	6"	16'
2	Posts	5"	6"	7'
6	Carriage Bolts		3/8"	8"
6	Washers		7/16"	
0.7 lb	Spikes			5"



Note: 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 side and 15" at the center.

Note: Trenches for Sectional Cast Iron Pipe must be excavated to exact grade, and excavation must be made for Pipe Bells to allow the full length of the pipe to be in contact with the earth. Backfill around Sectional Cast Iron Pipe must be made by hand and thoroughly tamped.





Note: 20' additional right-of-way to be acquired from Sta. 118+50 to Sta. 148+55.

B.M. # 1 Sec. D  
 Nail 30" Maple  
 Rt. Sta. 119+75  
 Elev. 859.78

B.M. # 2  
 Spike Root 8"  
 Maple Lt. Sta. 122+22  
 Elev. 854.26

B.M. # 3  
 2 Spikes 10" Walnut  
 30' Lt. Sta. 125+80  
 Elev. 851.24

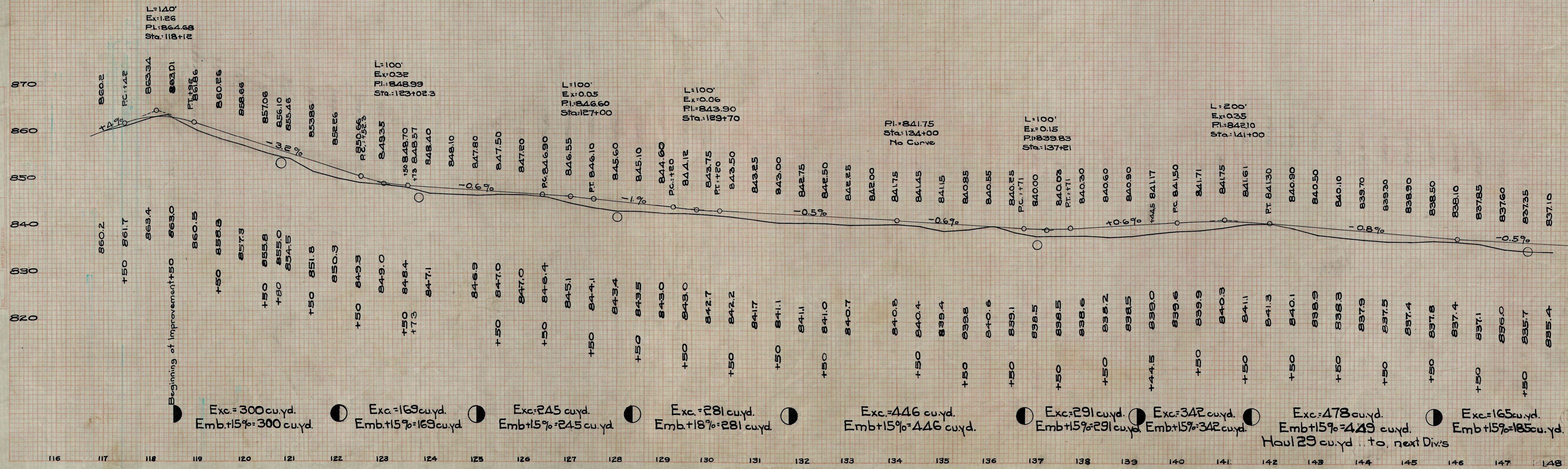
B.M. # 4  
 Notch Root Double  
 Oak Edge Road  
 Elev. 844.50

B.M. # 5  
 Spike 2.5' up 12" Wal.  
 Rt. Sta. 131+00  
 Elev. 844.21

B.M. # 6  
 X Top Conc. Rail  
 Support 9.5' W. Conc. Sign  
 Elev. 840.98

B.M. # 8  
 R.R. Spike Base Slow  
 Signal Rt. Sta. 144+50  
 Elev. 835.27

B.M. # 9  
 3 Spikes Notch  
 30" Oak Lt. Sta. 150+10  
 Elev. 837.38



Exc.=300 cu.yd.  
 Emb.+15%=300 cu.yd.

Exc.=169 cu.yd.  
 Emb.+15%=169 cu.yd.

Exc.=245 cu.yd.  
 Emb.+15%=245 cu.yd.

Exc.=281 cu.yd.  
 Emb.+18%=281 cu.yd.

Exc.=446 cu.yd.  
 Emb.+15%=446 cu.yd.

Exc.=291 cu.yd.  
 Emb.+15%=291 cu.yd.

Exc.=342 cu.yd.  
 Emb.+15%=342 cu.yd.

Exc.=478 cu.yd.  
 Emb.+15%=478 cu.yd.

Exc.=165 cu.yd.  
 Emb.+15%=165 cu.yd.

Haul 29 cu.yd. to next Div.



LEFT	Station	Grade Ele.	RIGHT	Edge Pav.
856.20	157+43.5	856.70	856.20	
858.67	157+55	859.17	859.17	
860.40	158+50	860.90	861.40	
861.21	159+00	861.81	862.31	
861.42	159+50	861.93	862.43	
860.30	160+00	861.40	861.30	
859.70	161+00	860.20	860.70	
859.10	161+50	859.60	860.10	
858.43	162+00	858.93	859.43	
857.28	162+50	857.78	858.28	
855.56	163+00	856.06	856.56	
853.30	163+50	853.80	854.30	
850.90	164+00	851.40	851.90	
849.08	164+38	849.58	850.88	
846.68	164+88	847.18	847.18	
844.28	165+38	844.78	844.28	
	Max. Elevation: 1.0'			

Note: Side stakes remain on first field location; F stakes set for both locations. Cross Sections & Profiles plotted for first location.

Field Location  
Δ = 24°00' L  
D = 6.4'  
T = 190.3'  
Ex = 200'  
L = 375.0'

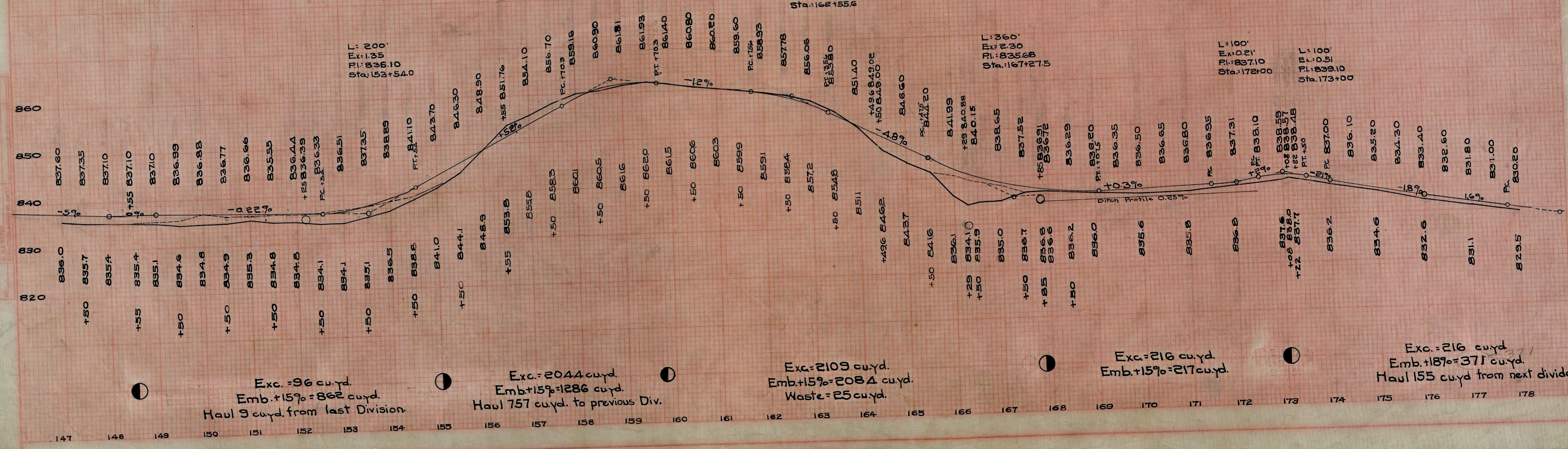
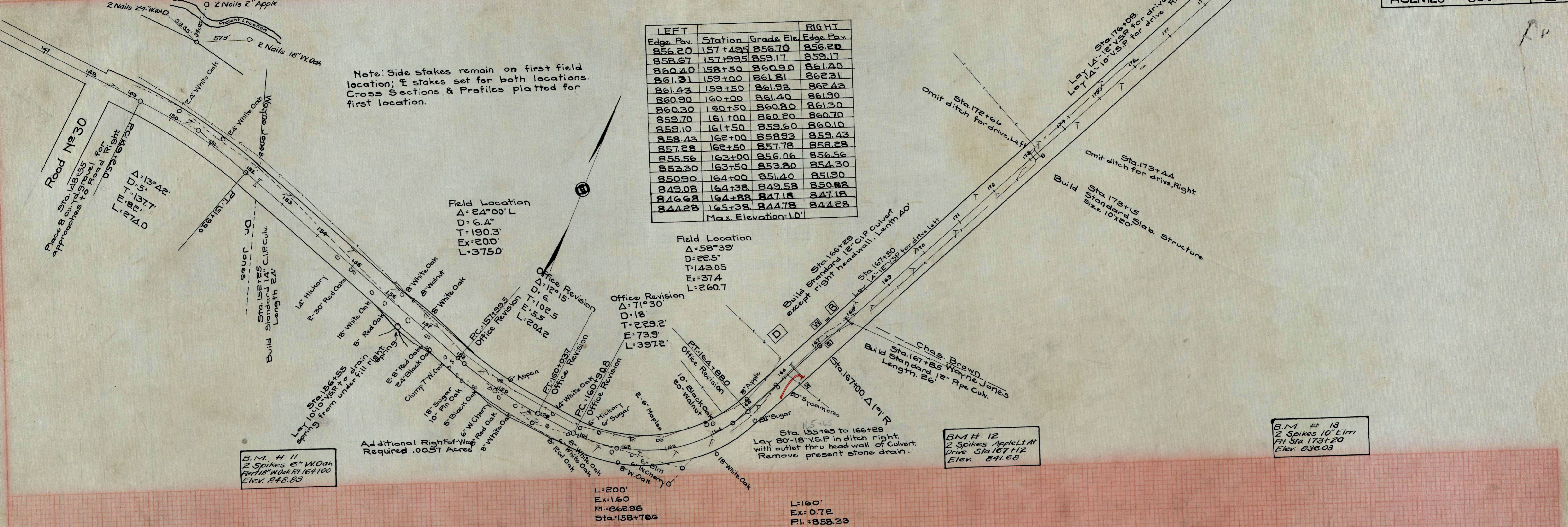
Field Location  
Δ = 58°39'  
D = 22.5'  
T = 143.05'  
Ex = 37.4'  
L = 260.7'

Office Revision  
Δ = 71°30'  
D = 18'  
T = 229.2'  
Ex = 73.9'  
L = 397.2'

B.M. # 11  
2 Spikes 6" Wood  
Fit 18" WOOD R.I. 167+00  
Elev. 848.83

B.M. # 12  
2 Spikes Apple L At  
Drive Sta 167+12  
Elev. 841.68

B.M. # 13  
2 Spikes 10' Elm  
Fit Sta 173+20  
Elev. 836.03



Exc. = 96 cu.yd.  
Emb. +15% = 862 cu.yd.  
Haul 9 cu.yd. from last Division.

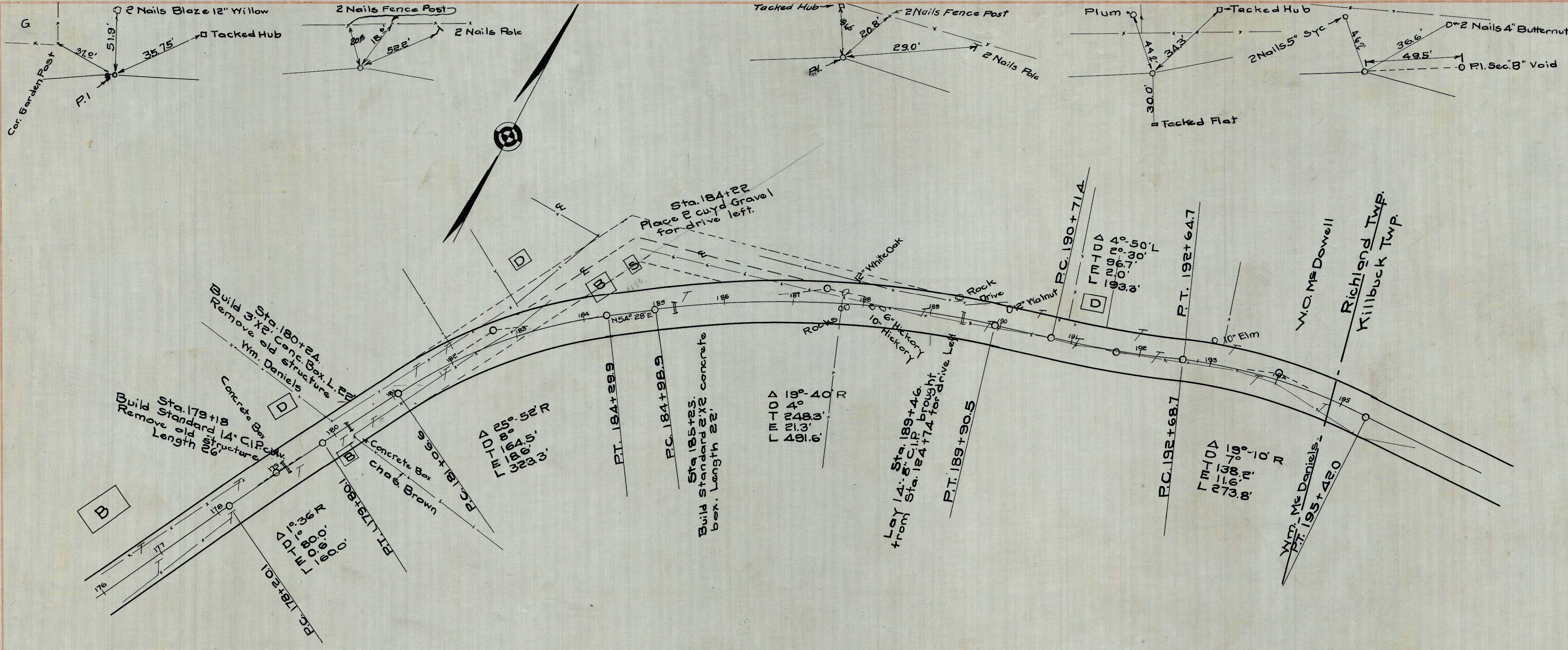
Exc. = 2044 cu.yd.  
Emb. +15% = 1286 cu.yd.  
Haul 757 cu.yd. to previous Div.

Exc. = 2109 cu.yd.  
Emb. +15% = 2084 cu.yd.  
Waste = 25 cu.yd.

Exc. = 216 cu.yd.  
Emb. +15% = 217 cu.yd.

Exc. = 216 cu.yd.  
Emb. +15% = 371 cu.yd.  
Haul 155 cu.yd. from next divide.



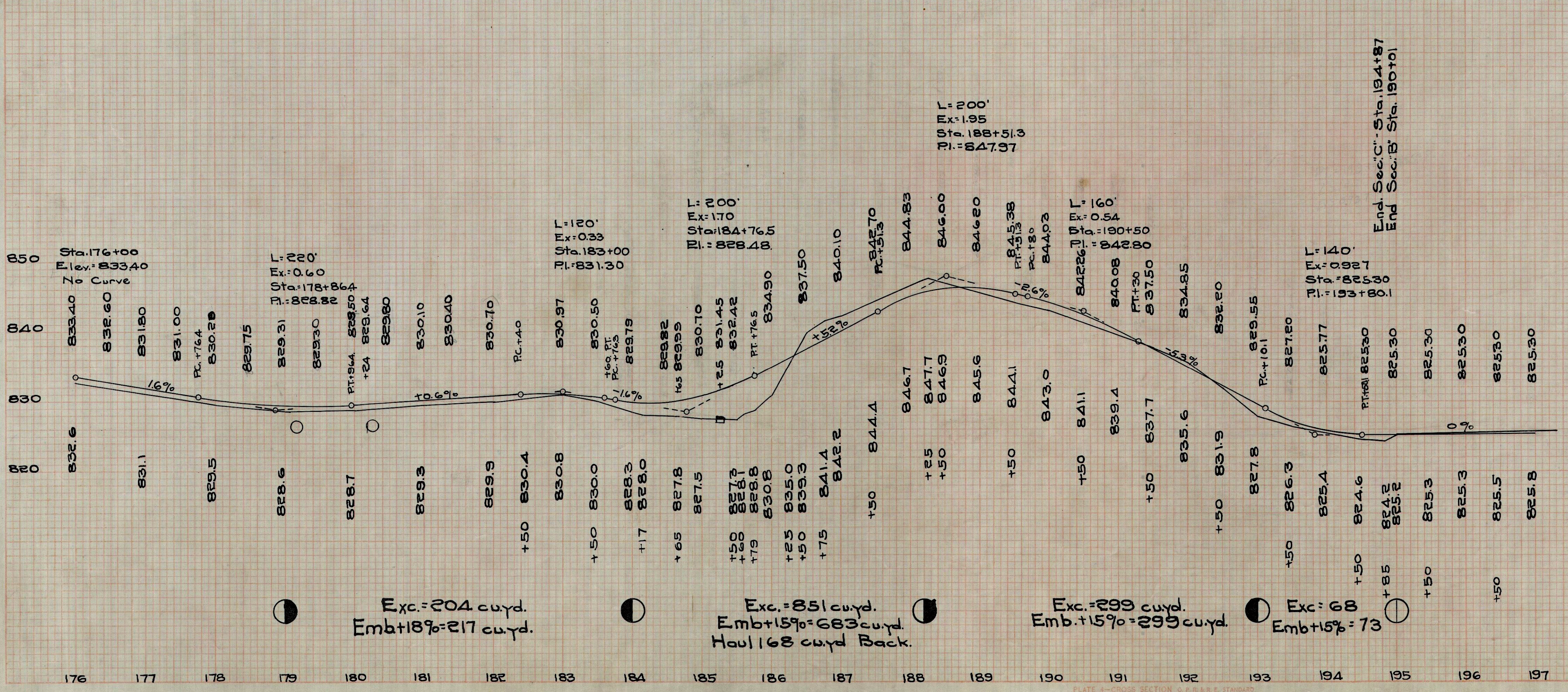


B.M. # 14  
X on Stone Steps  
Cory Lt. Sta. 181+60  
Elev. 828.78

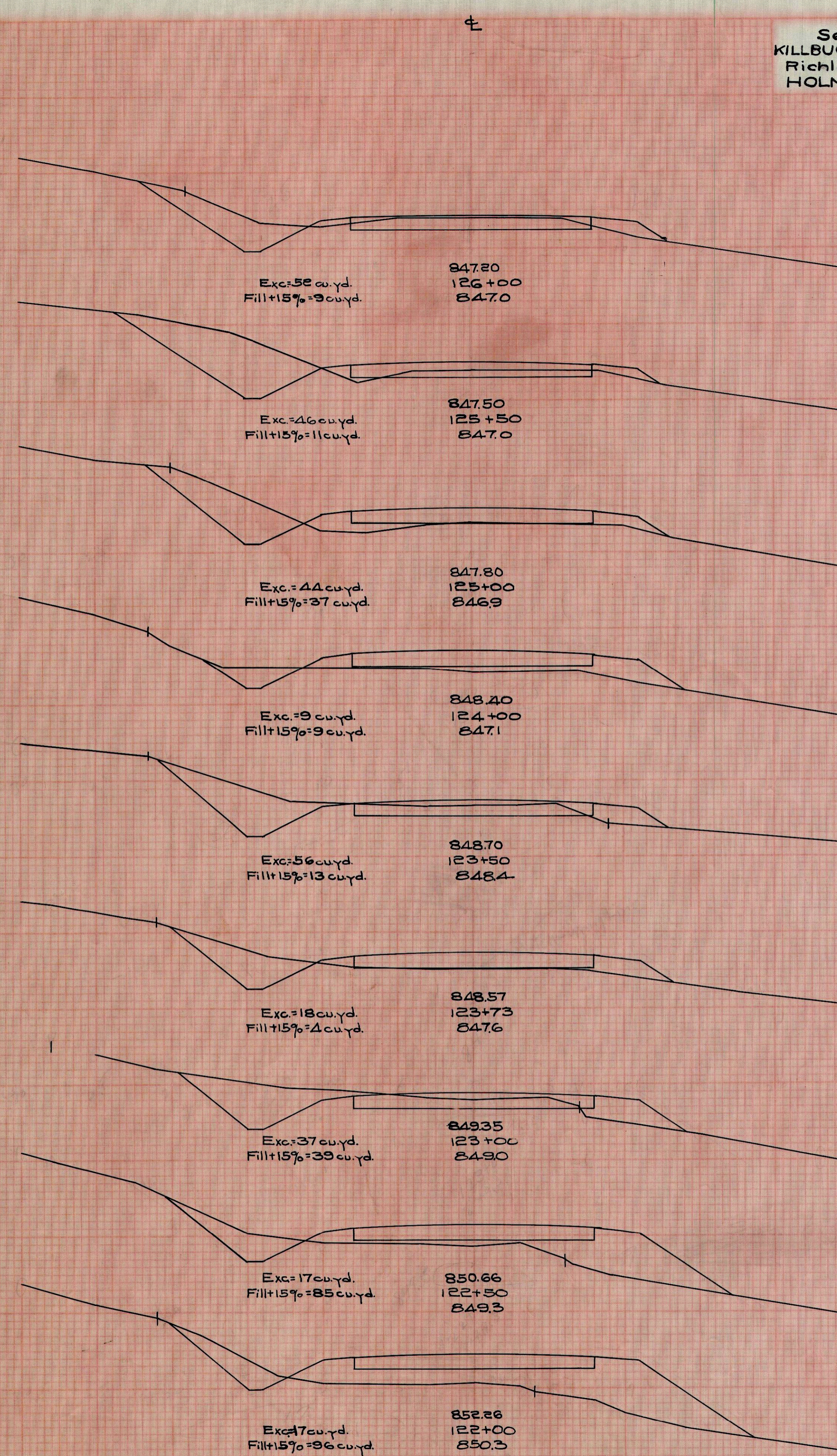
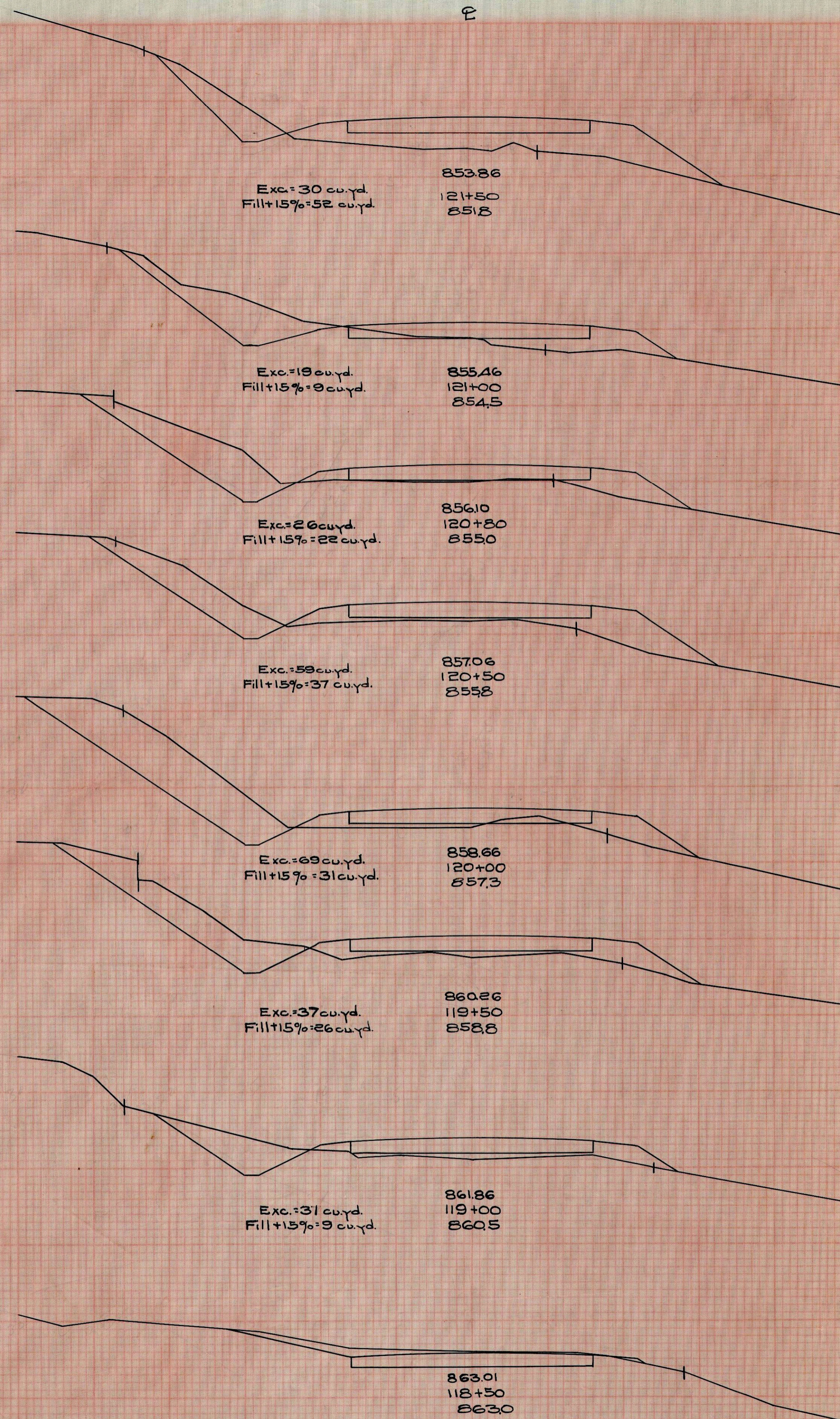
B.M. # 15 A  
X Found Cor. Shed  
Lt. Sta. 184+15  
Elev. 830.01

B.M. # 15  
I Top Rock Right  
Sta. 187+75  
Elev. 843.19

B.M. # 16  
N.W. Cor. N. Head  
Wall Cmn. Sec. 'B'  
Elev. 854.84



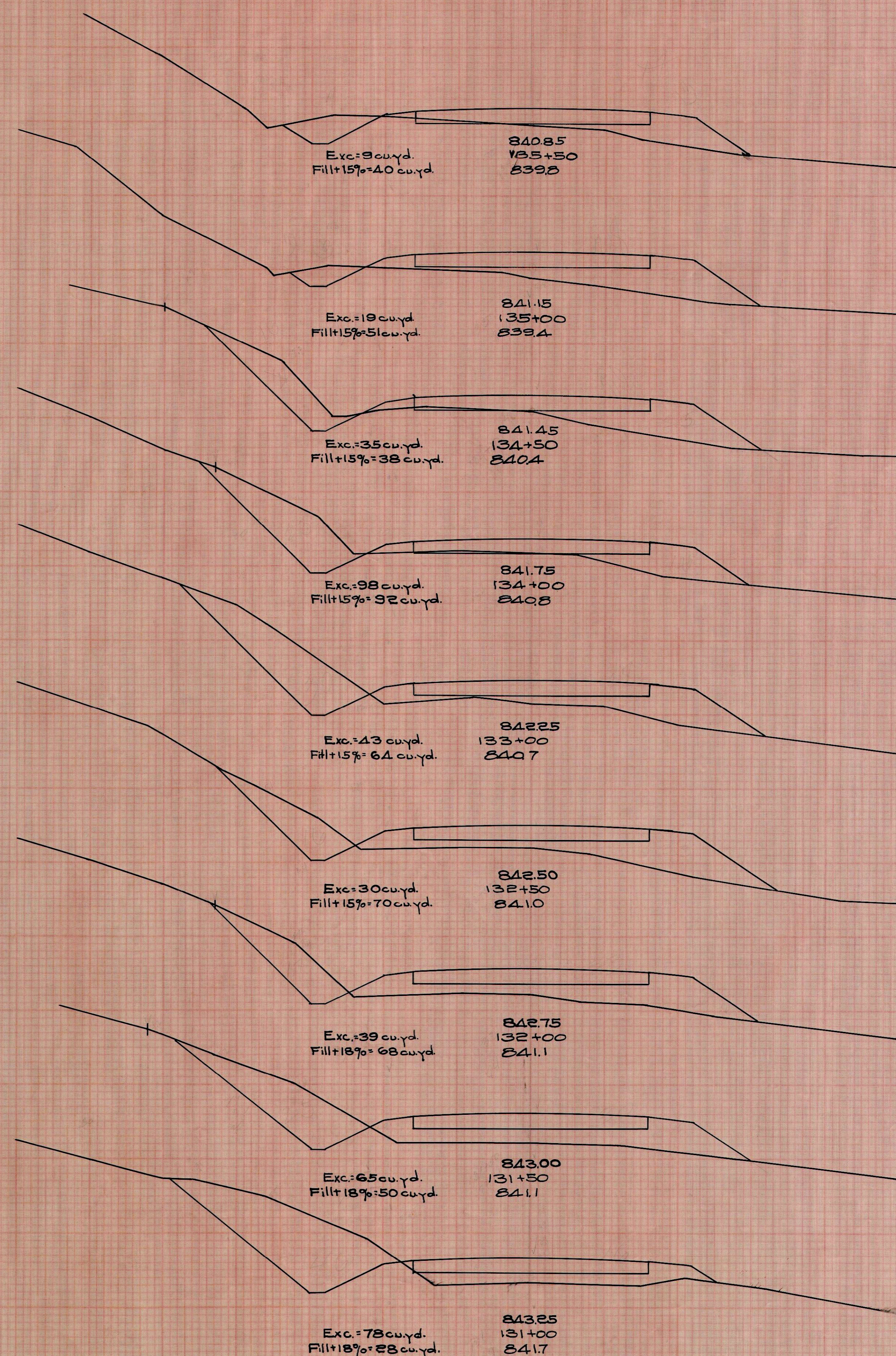
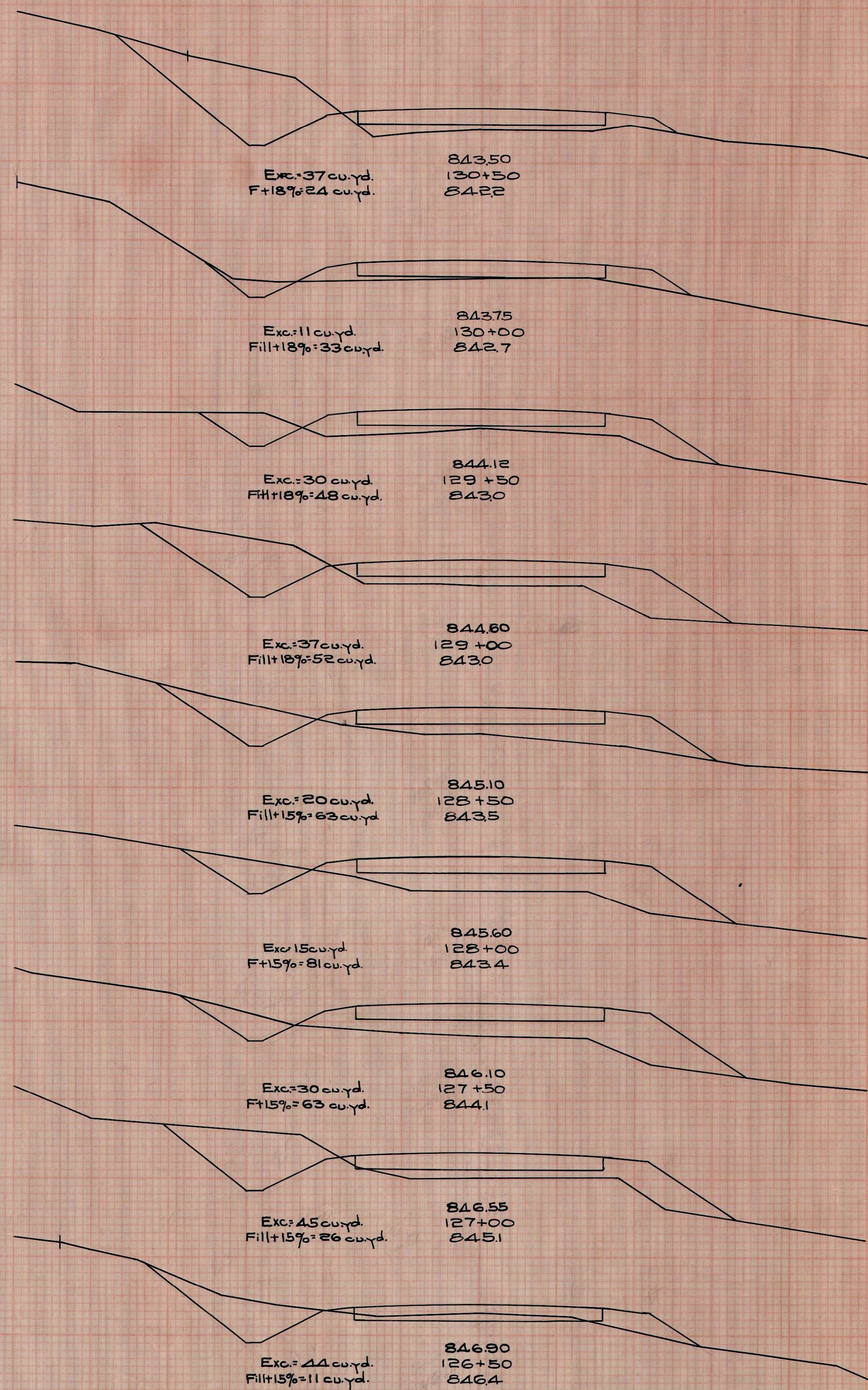




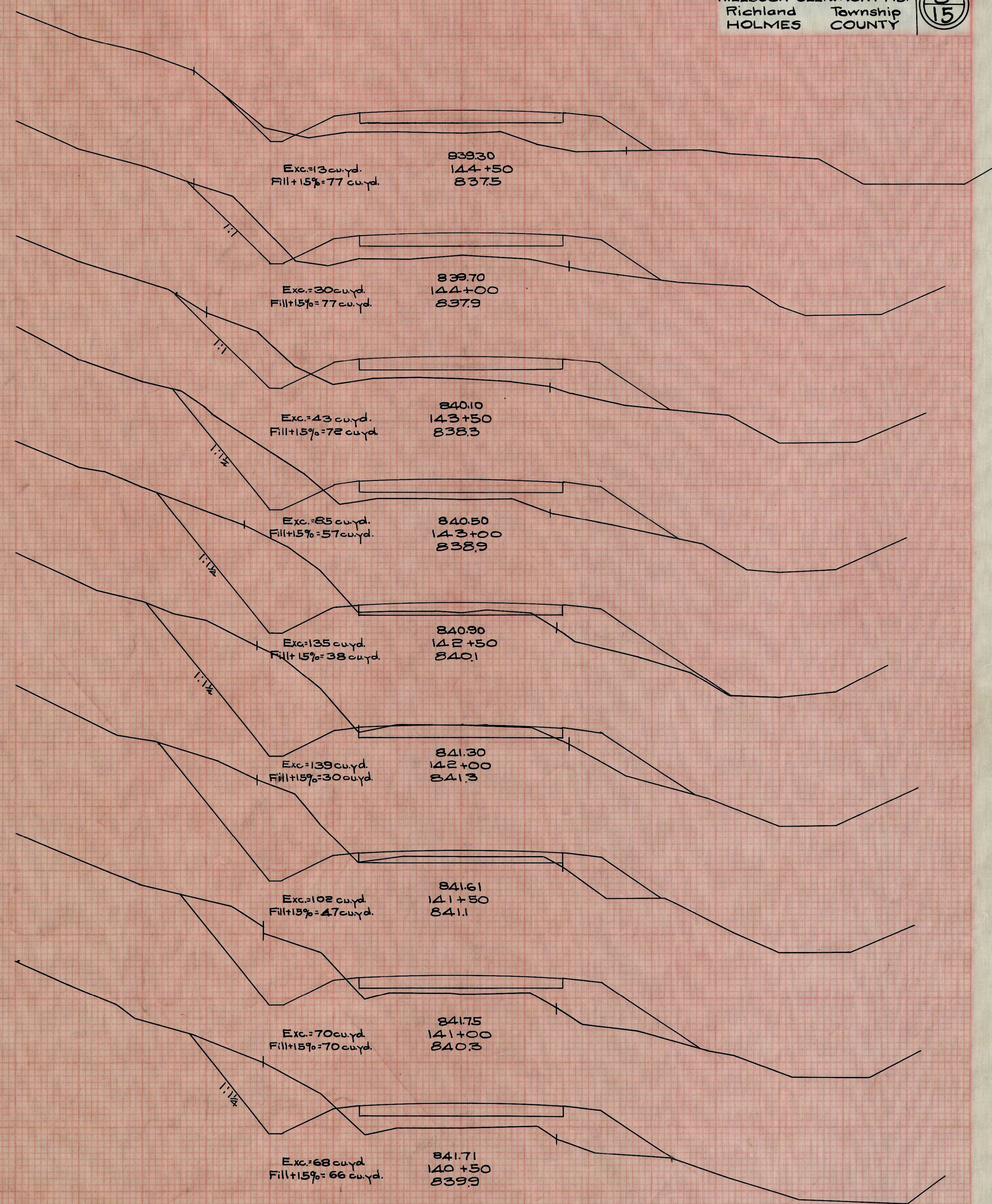
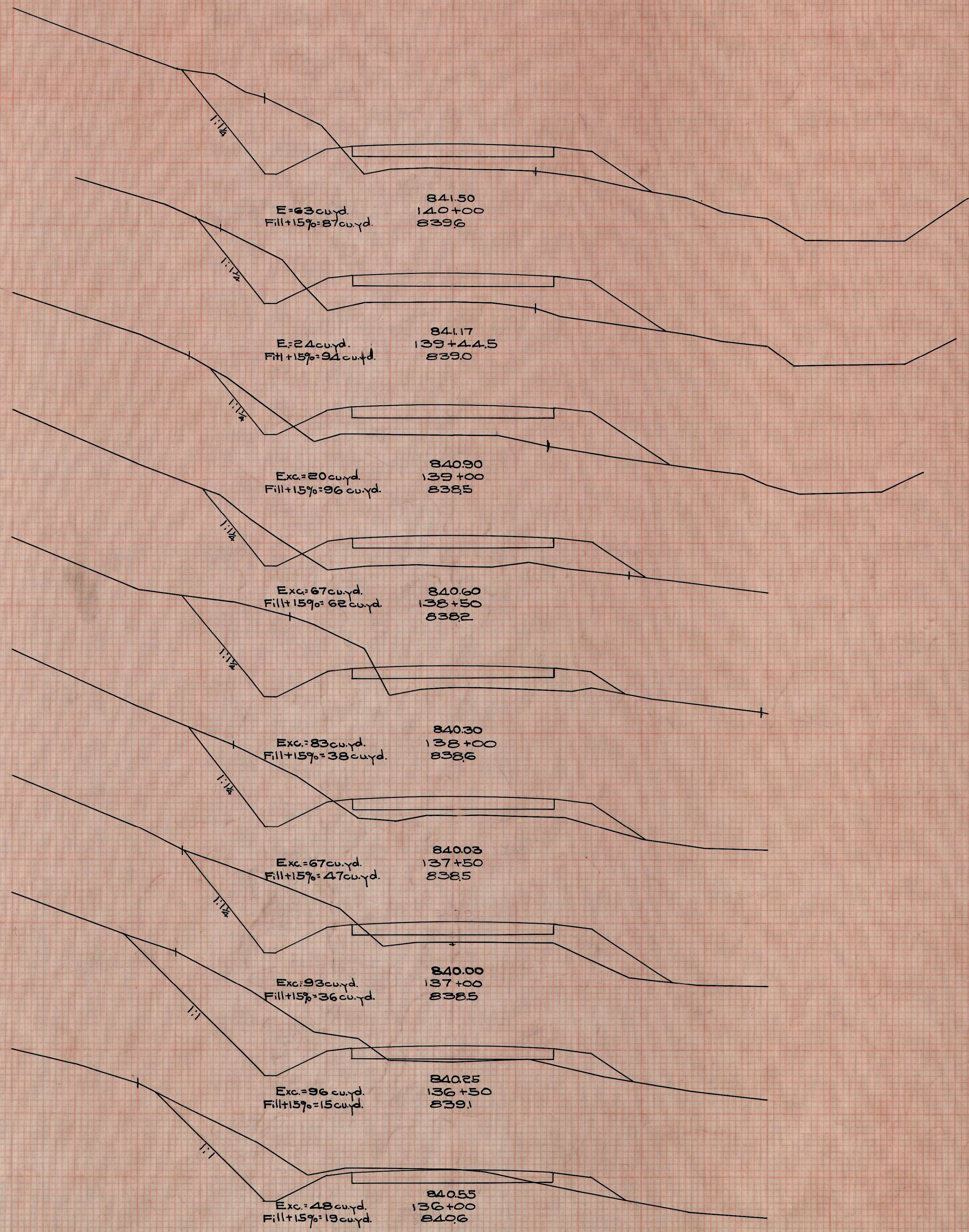
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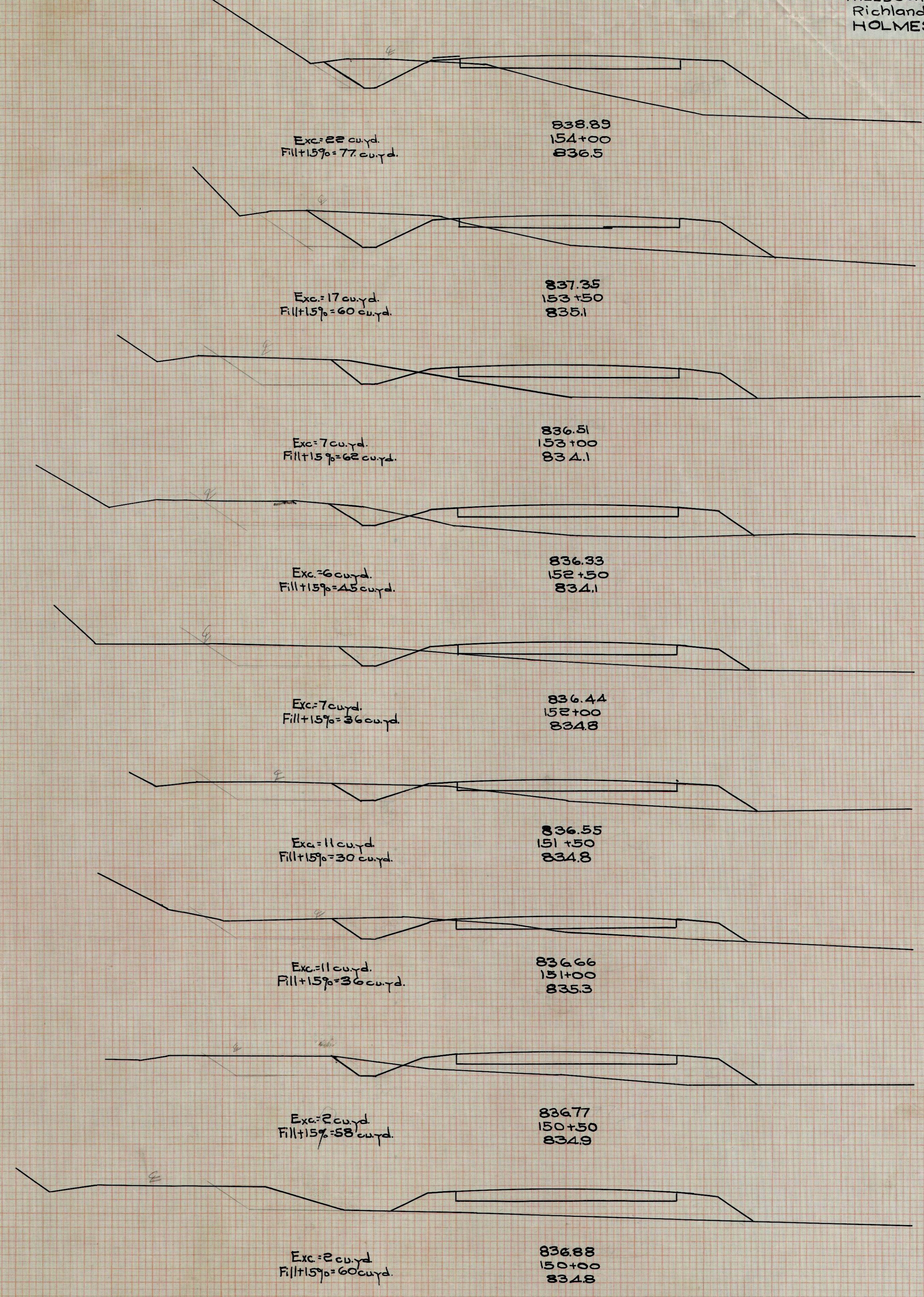
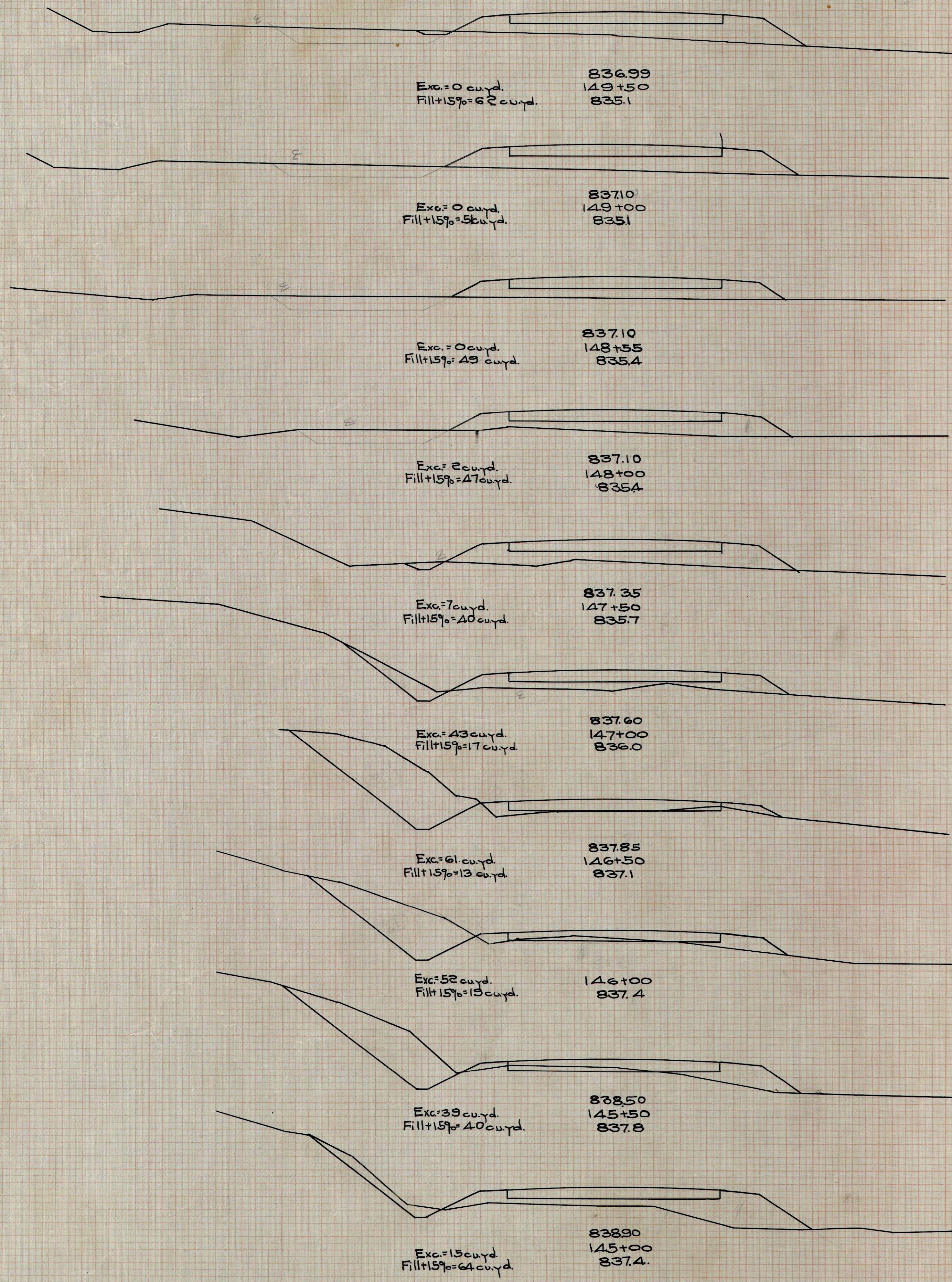




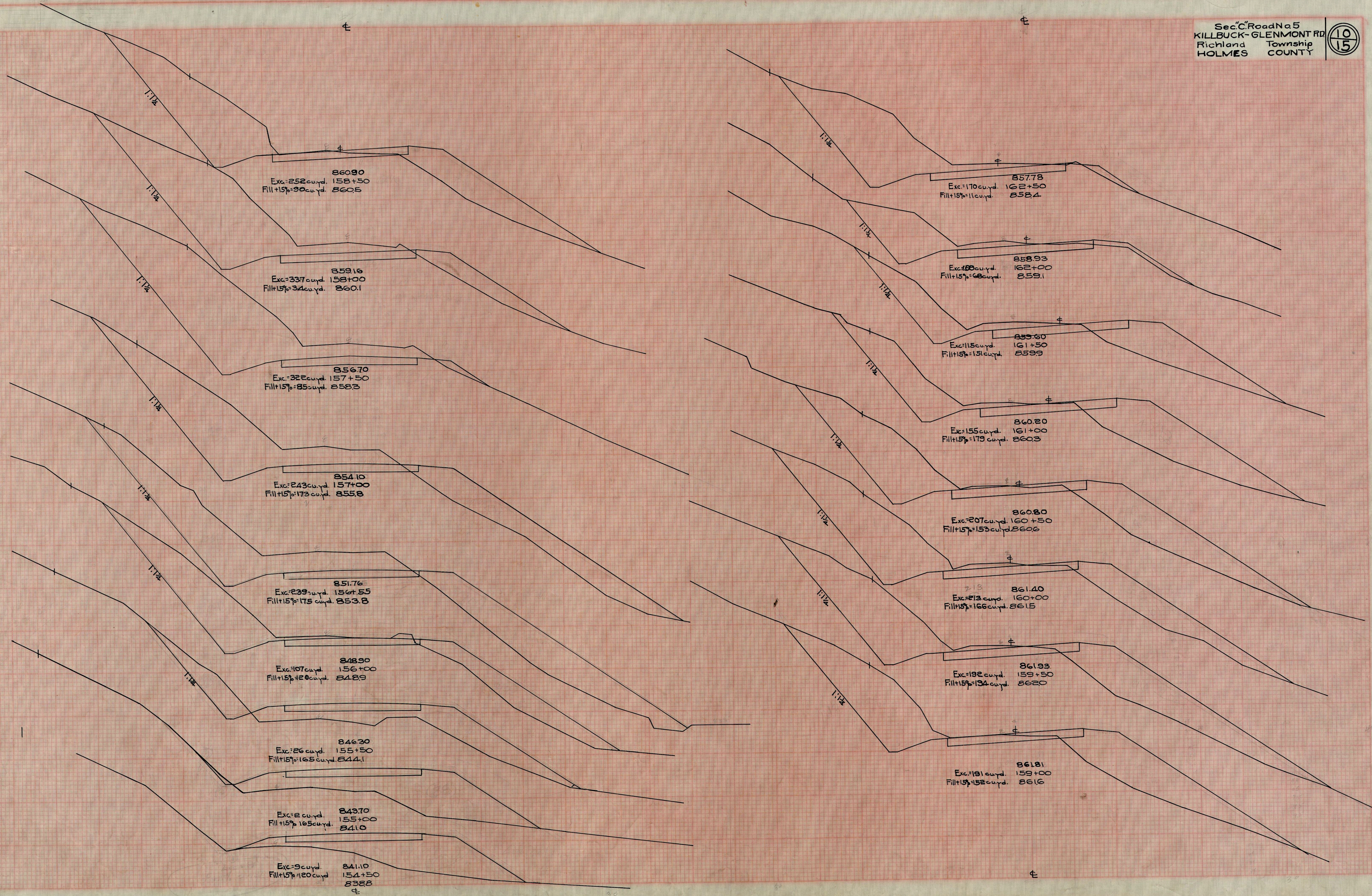


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DATE  
 BY  
 SURVEYED  
 PLOTTED  
 CHECKED  
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86090  
Exc.: 252 cu. yd. 158+50  
Fill + 15% = 90 cu. yd. 8605

85916  
Exc.: 337 cu. yd. 158+00  
Fill + 15% = 34 cu. yd. 8601

85670  
Exc.: 322 cu. yd. 157+50  
Fill + 15% = 85 cu. yd. 8583

85410  
Exc.: 243 cu. yd. 157+00  
Fill + 15% = 173 cu. yd. 8558

85176  
Exc.: 239 cu. yd. 156+55  
Fill + 15% = 175 cu. yd. 8538

84890  
Exc.: 107 cu. yd. 156+00  
Fill + 15% = 120 cu. yd. 8489

84630  
Exc.: 26 cu. yd. 155+50  
Fill + 15% = 165 cu. yd. 8441

84370  
Exc.: 2 cu. yd. 155+00  
Fill + 15% = 165 cu. yd. 8410

84110  
Exc.: 9 cu. yd. 154+50  
Fill + 15% = 120 cu. yd. 8388

85778  
Exc.: 170 cu. yd. 162+50  
Fill + 15% = 11 cu. yd. 8584

85893  
Exc.: 68 cu. yd. 162+00  
Fill + 15% = 68 cu. yd. 8591

85960  
Exc.: 115 cu. yd. 161+50  
Fill + 15% = 151 cu. yd. 8599

86020  
Exc.: 155 cu. yd. 161+00  
Fill + 15% = 179 cu. yd. 8603

86080  
Exc.: 207 cu. yd. 160+50  
Fill + 15% = 153 cu. yd. 8606

86140  
Exc.: 213 cu. yd. 160+00  
Fill + 15% = 166 cu. yd. 8615

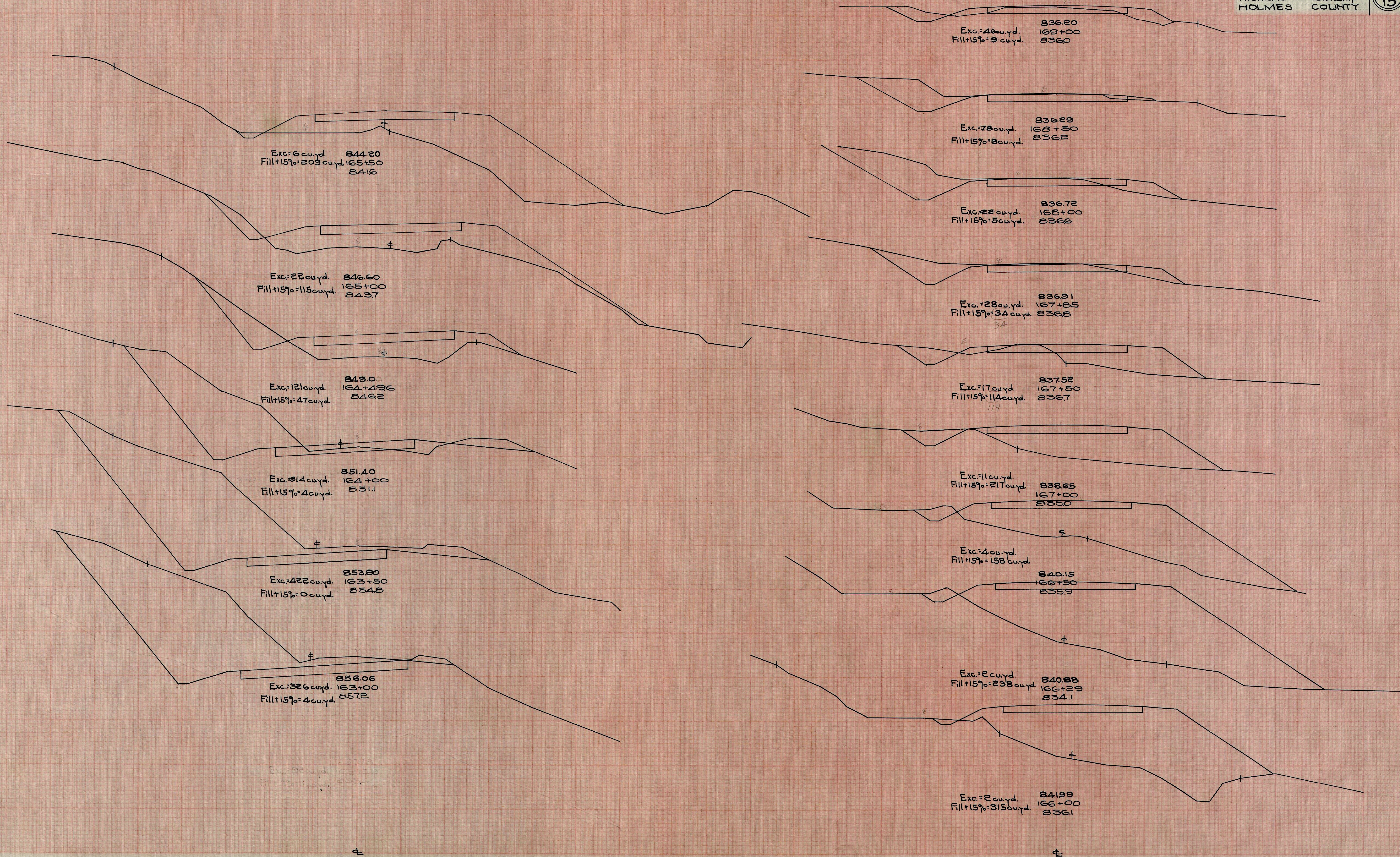
86193  
Exc.: 192 cu. yd. 159+50  
Fill + 15% = 134 cu. yd. 8620

86181  
Exc.: 191 cu. yd. 159+00  
Fill + 15% = 152 cu. yd. 8616

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BY: [Signature]

ORIGINAL SURVEY RECORD  
DATE: 10/15/15  
BY: [Signature]

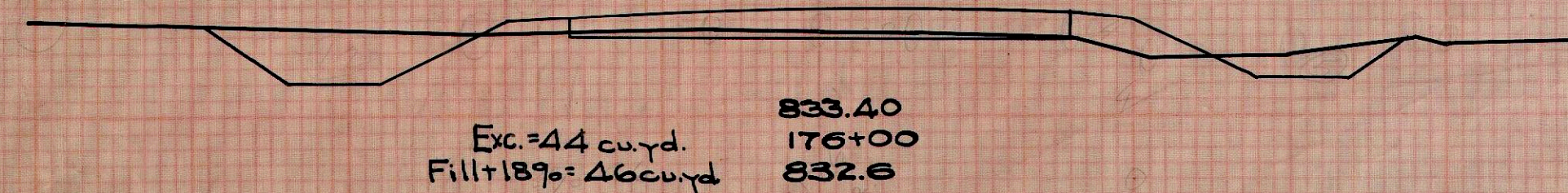
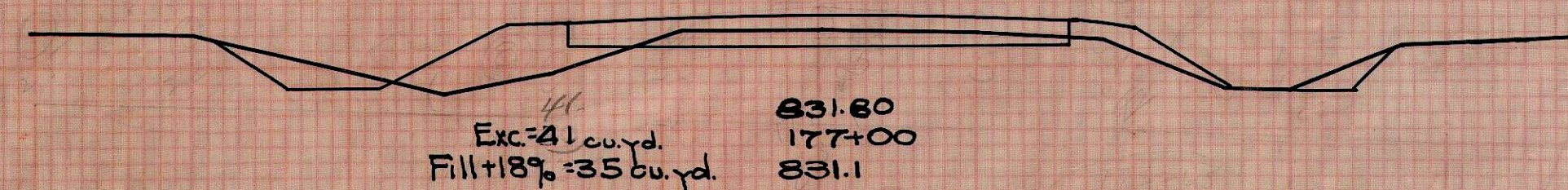
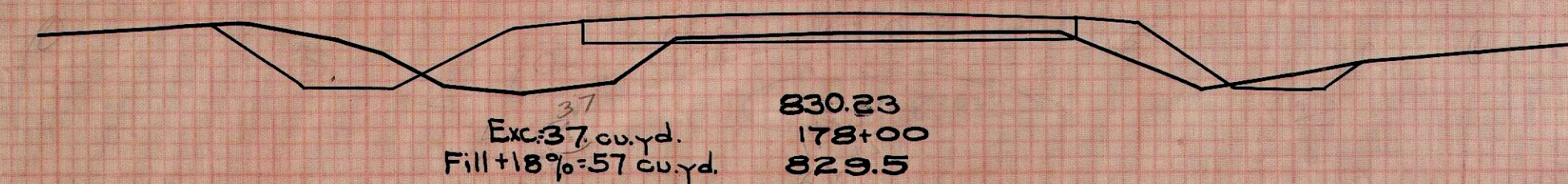
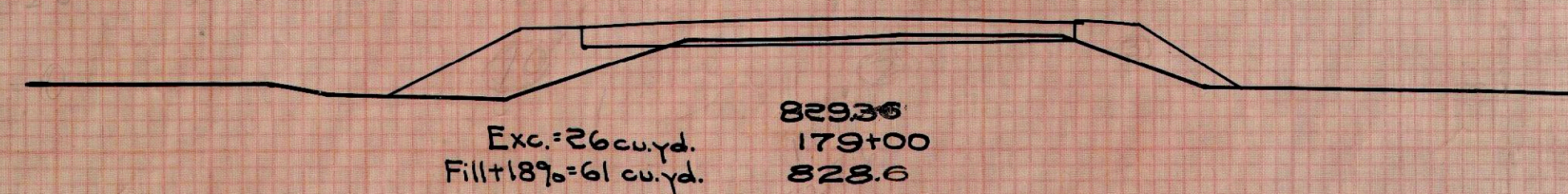
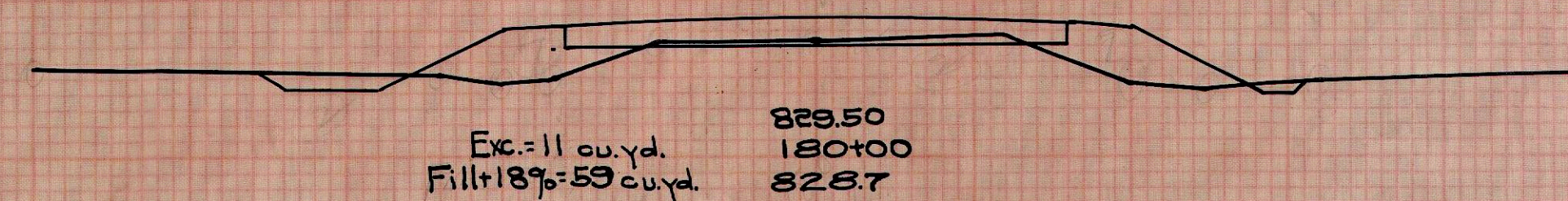
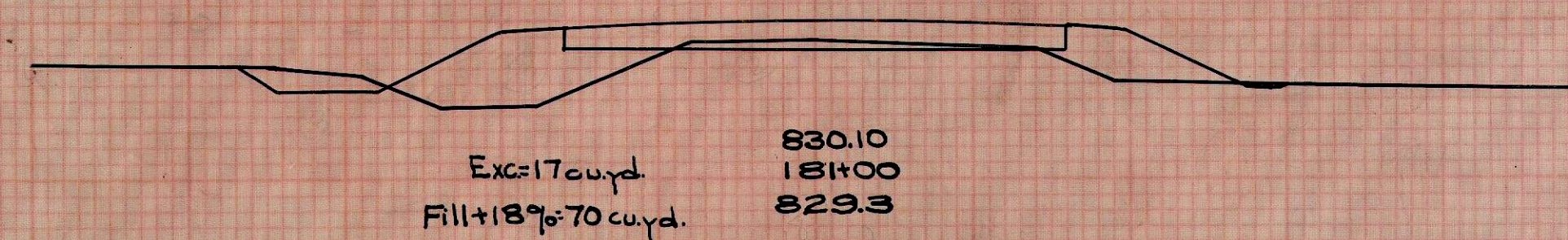
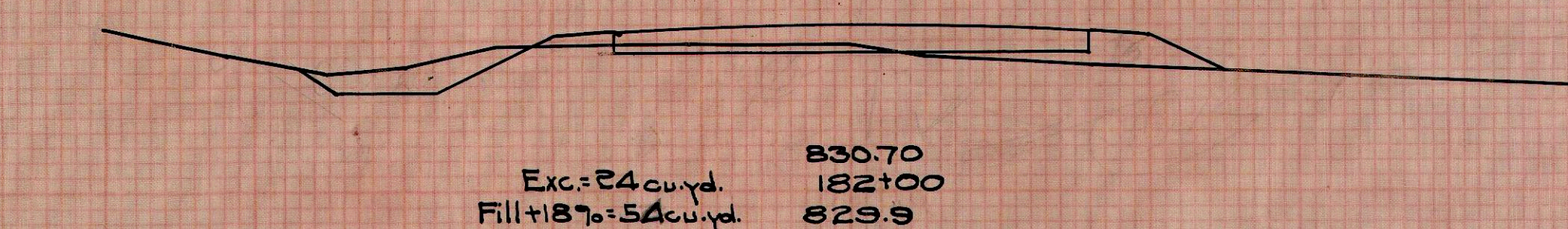
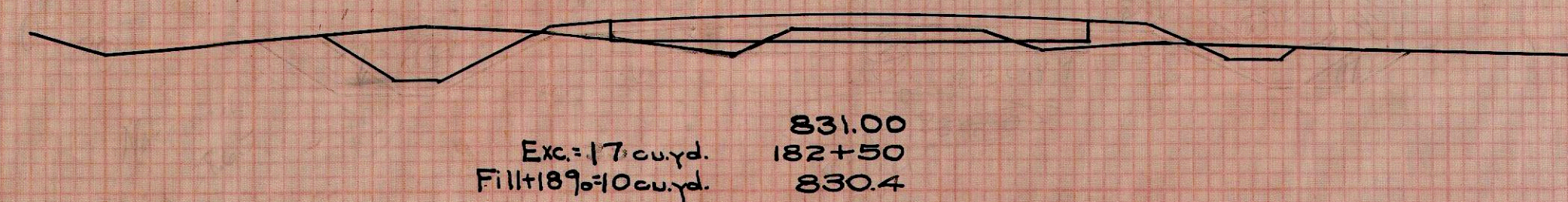
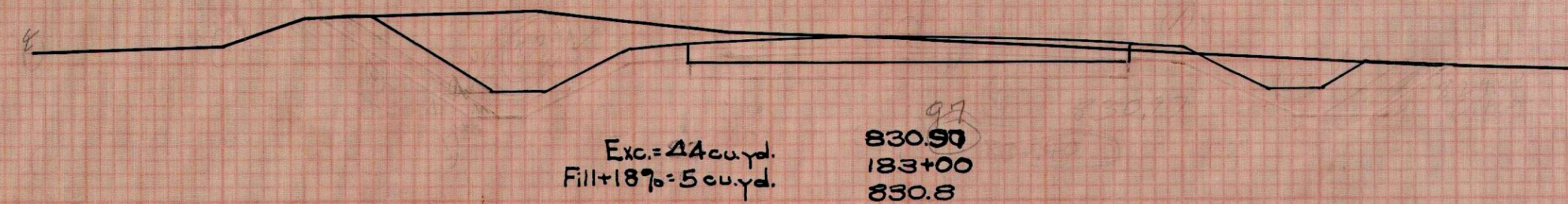
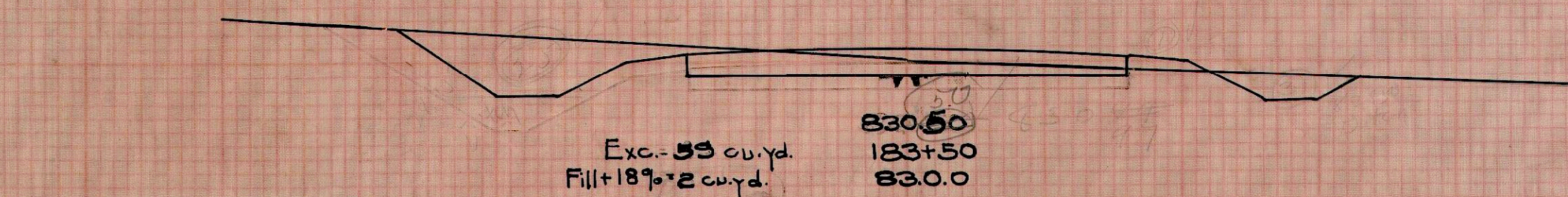
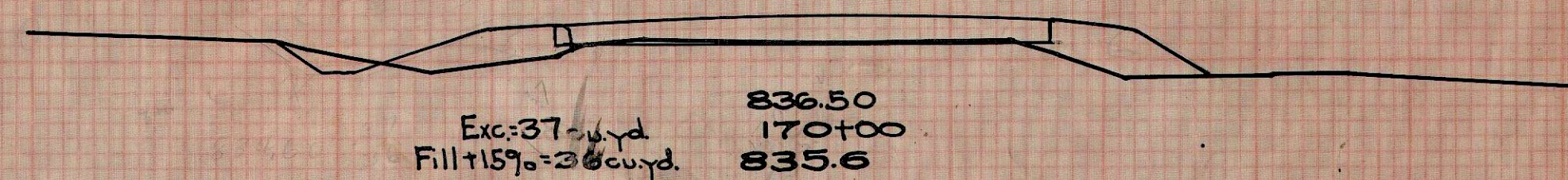
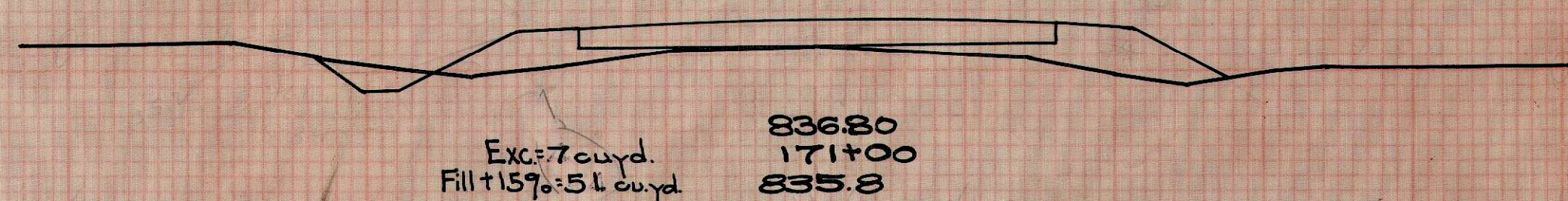
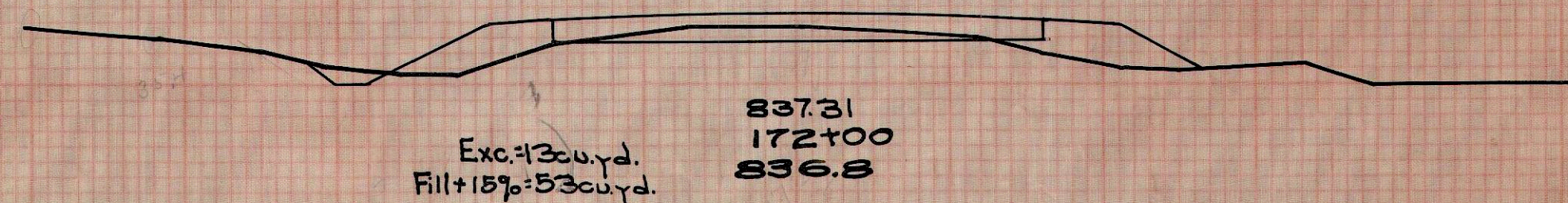
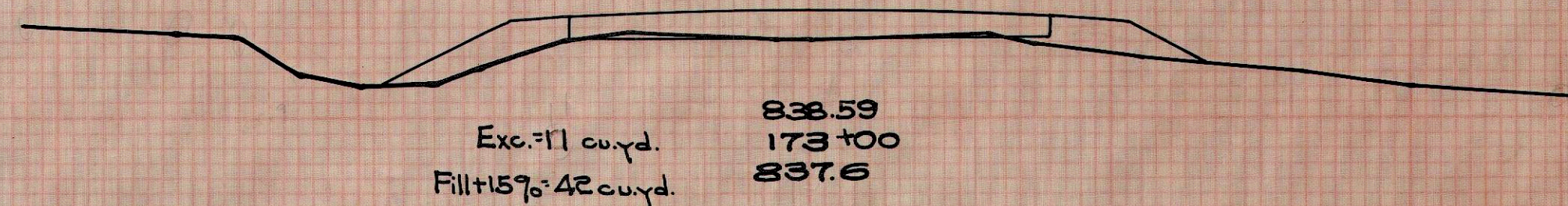
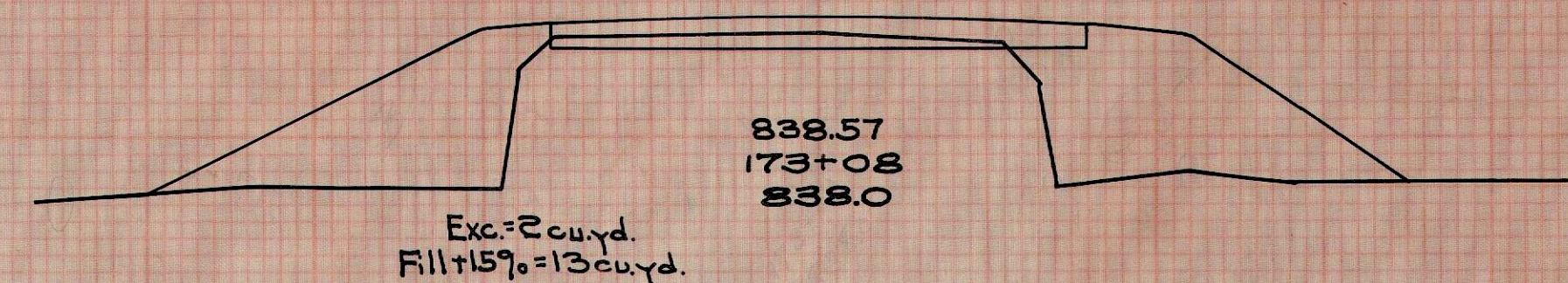
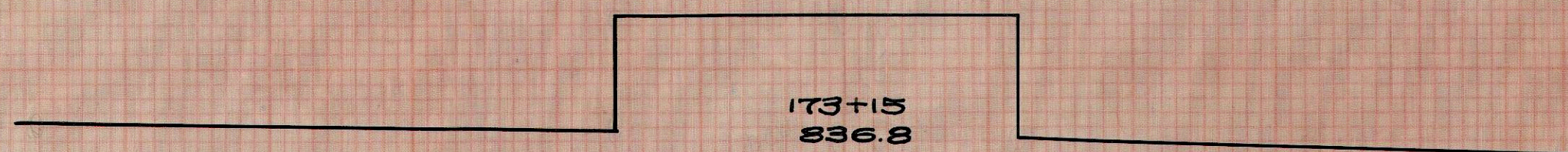
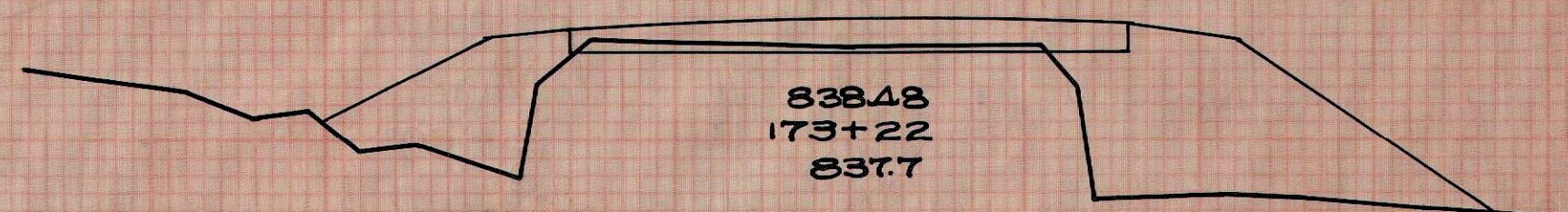
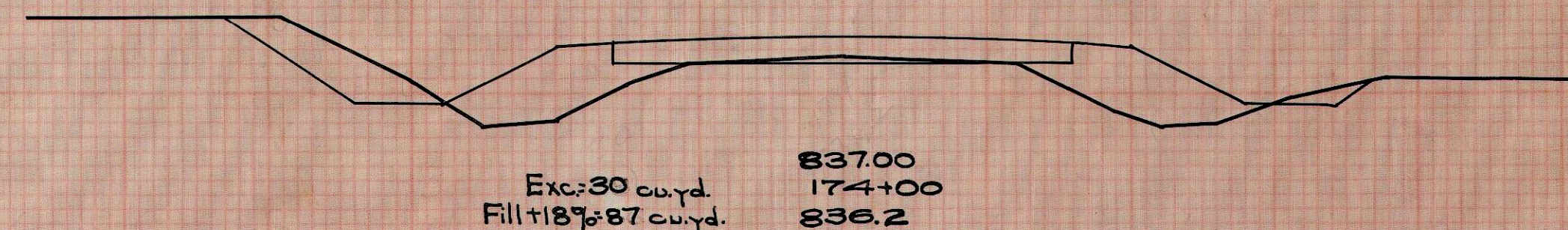
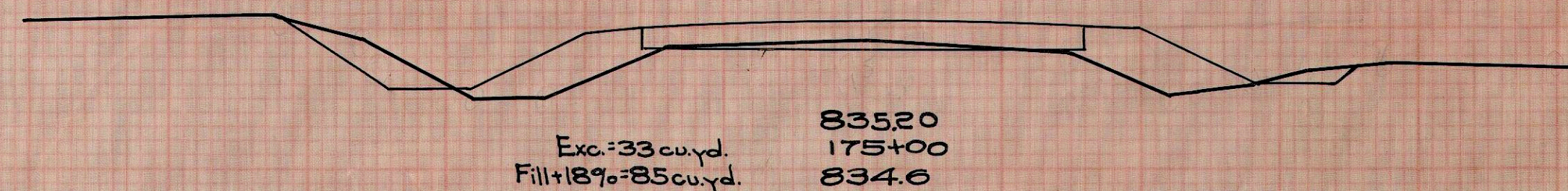




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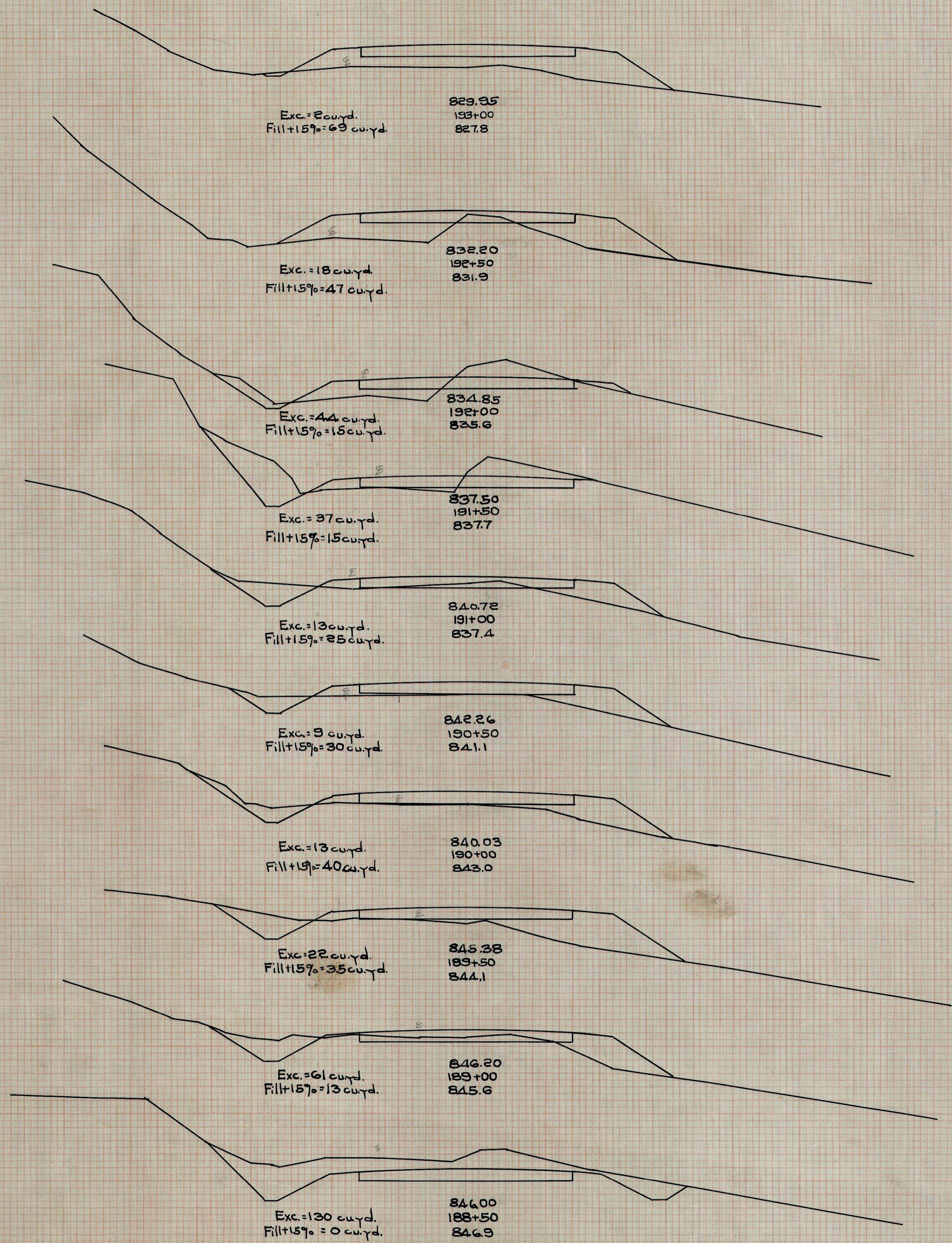
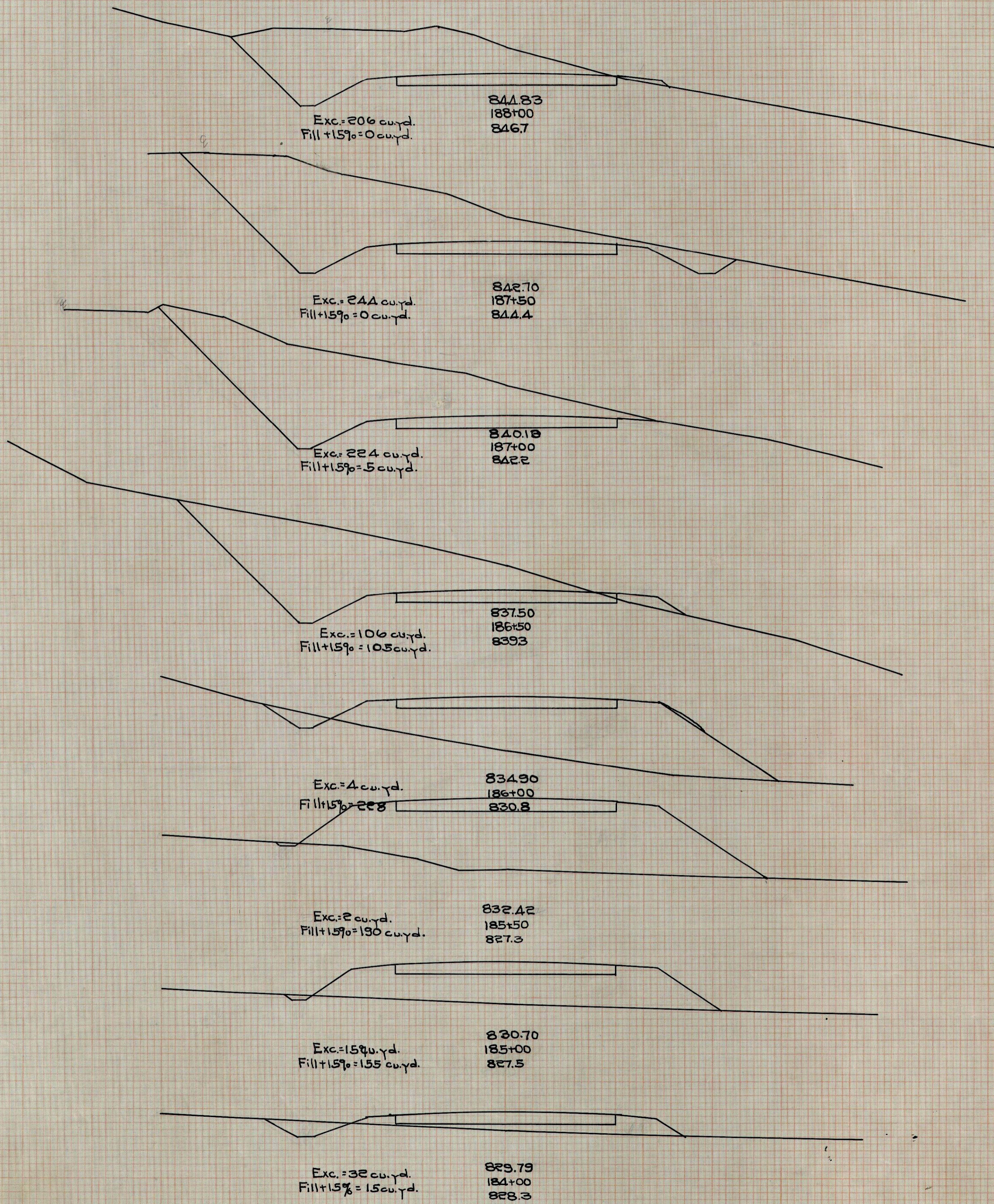
TRAVERSAL SURVEY NOTES

TRAVERSAL SURVEY NOTES



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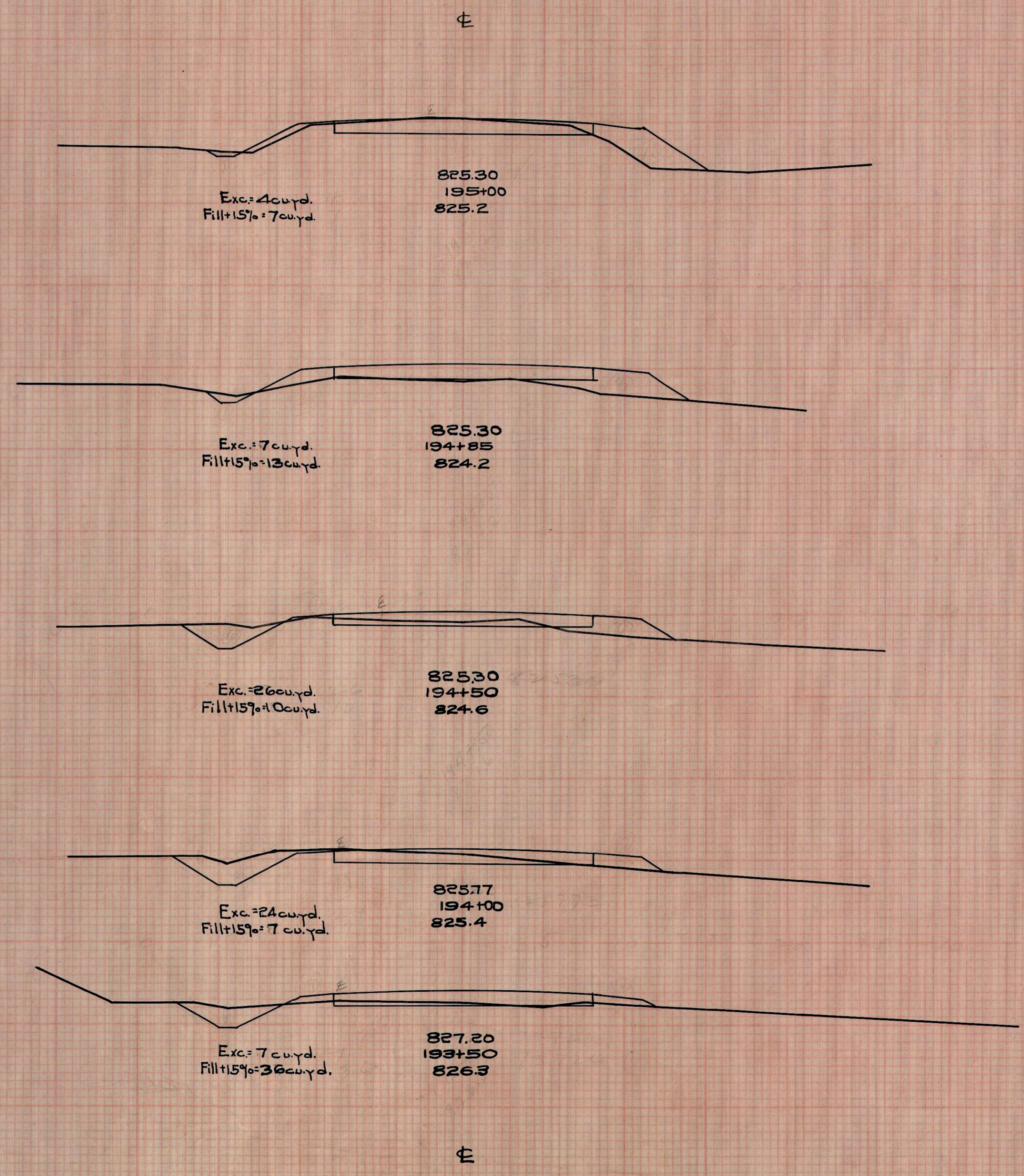
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FINAL  
SURVEY  
NOTE BOOK

ORIGINAL  
SURVEY  
NOTE BOOK





## SUMMARY OF QUANTITIES.

### ROADWAY.

Excavation	8820 cu.yd.
Gravel-compacted, 12" center & 8" sides	12353 sq.yd.
Gravel-compacted, 12" center & 18" sides	1224 sq.yd.
Gravel-for approaches	10 cu.yd.
Finishing shoulders, slopes & ditches	7637 lin.ft.
Length of roadway	7637 lin.ft. - 14.5 miles
Excavation per mile	6080 cu.yd.

### BRIDGES & CULVERTS.

Concrete, 1-2-4 mix	12.5 cu.yd.
Concrete, 1-2½-4 mix	19.8 cu.yd.
Concrete, 1-2-3 mix	28.2 cu.yd.
Concrete, 1-3-5 mix	14.9 cu.yd.
Concrete Railing	24 lin.ft.
Steel	2234 pound
Excavation	174 cu.yd.
Channel excavation	10 cu.yd.
Sectional Cast Iron Pipe, 12"	196 lin.ft.
Sectional Cast Iron Pipe, 14"	50 lin.ft.

### PIPE FOR DRIVES

Vitrified Sewer Pipe, 10"	50 lin.ft.
Vitrified Sewer Pipe, 12"	28 lin.ft.
Vitrified Sewer Pipe, 15"	12 lin.ft.
Vitrified Sewer Pipe, 18"	80 lin.ft.
Cast Iron Pipe, 8" Relay,	15 lin.ft.