

W  
576

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS  
Chicago New York San Francisco New Orleans Pittsburg Toronto

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	II
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

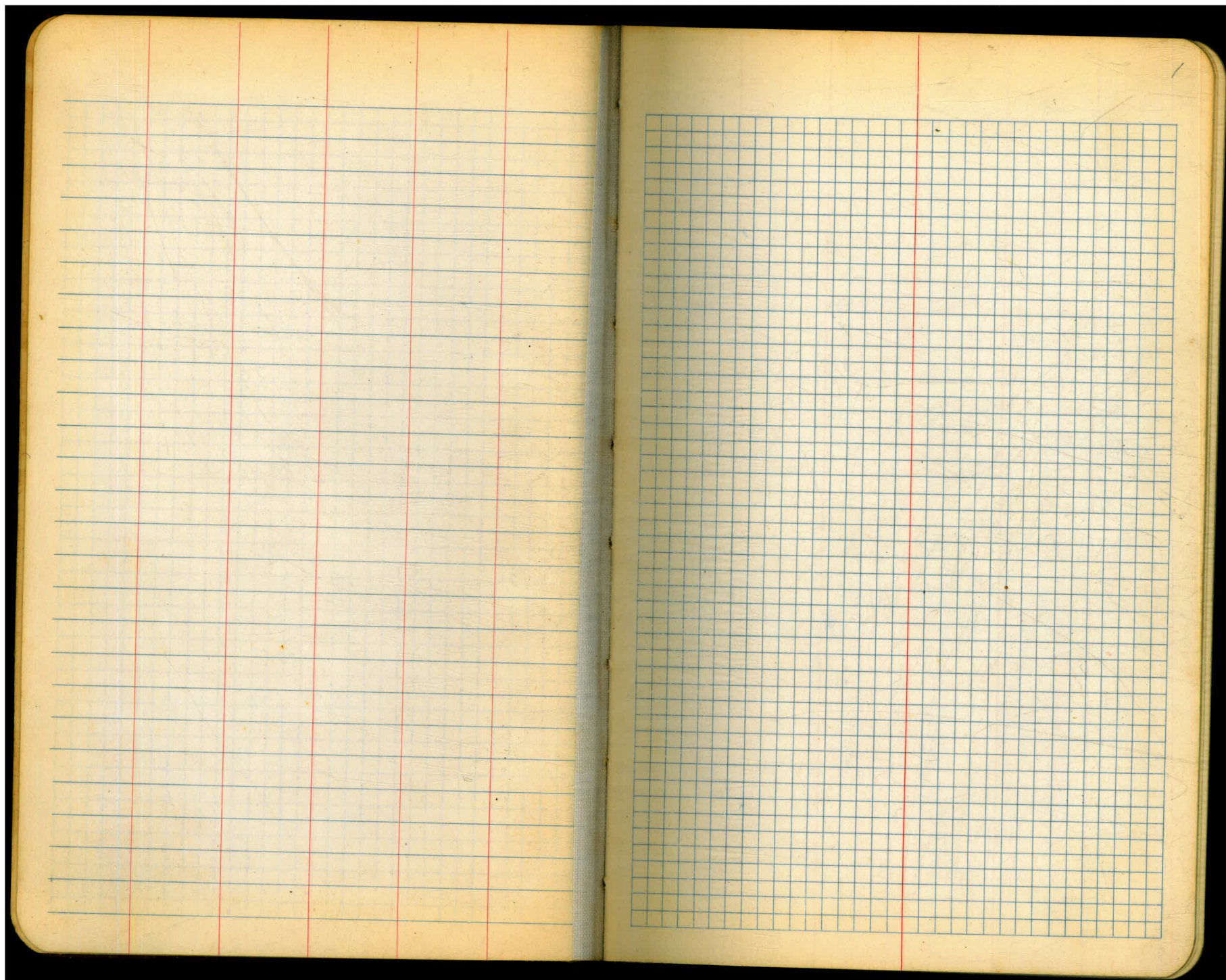
Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6 + (20 - 16) \* 2 or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1 1/2 see inside of back cover.

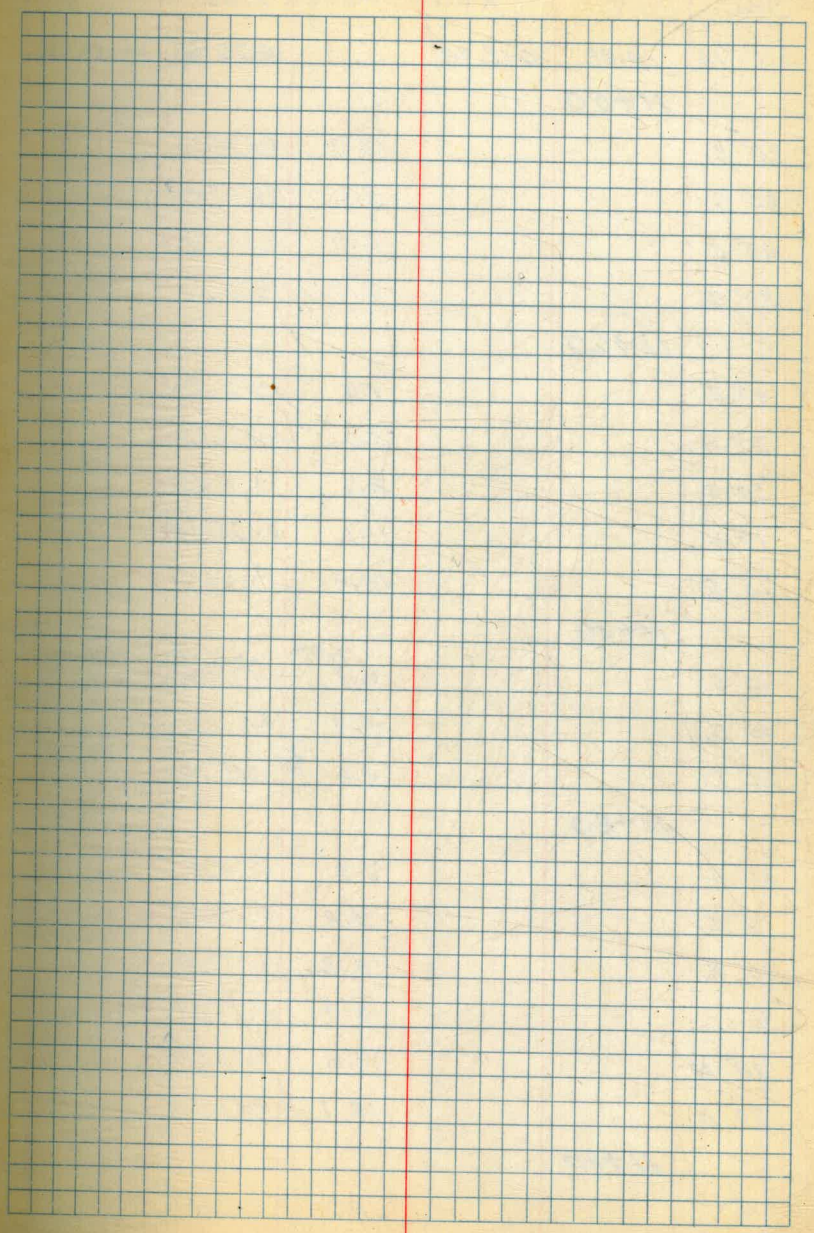
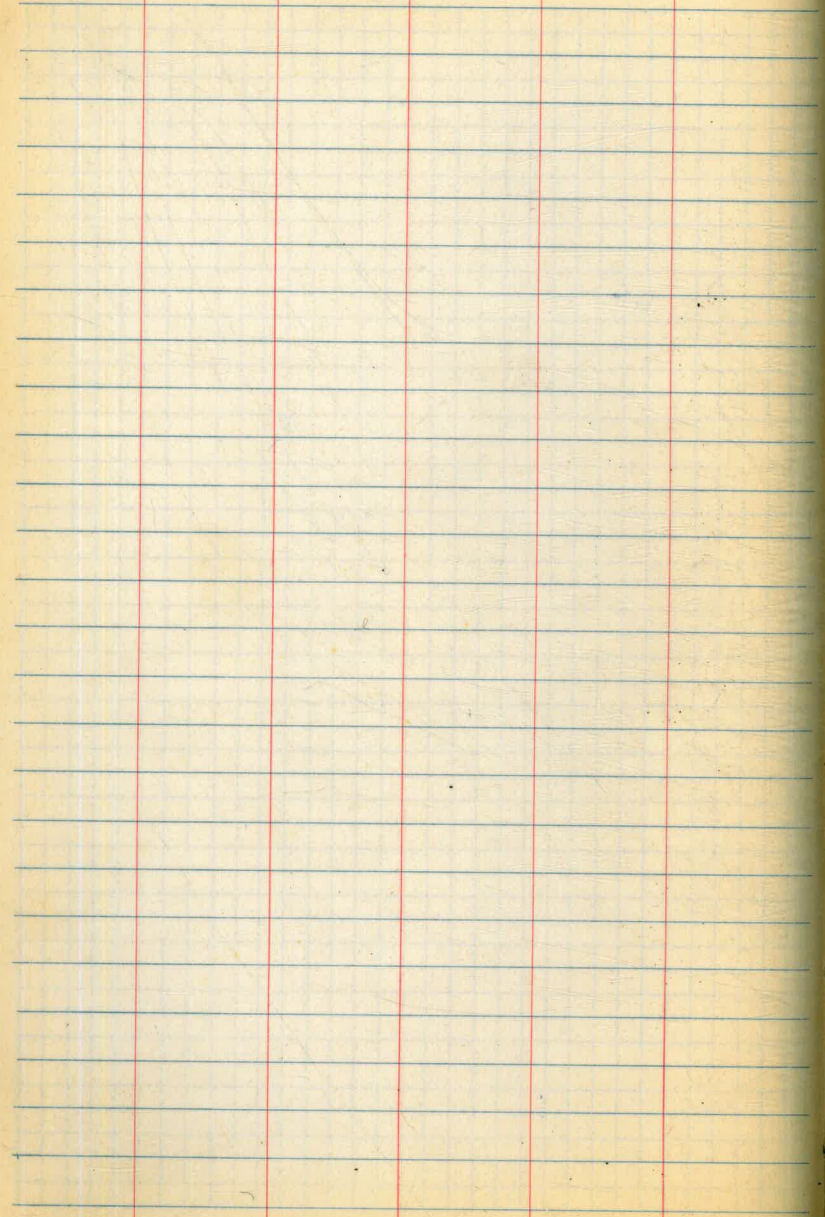
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of a high grade 50% Rag Paper  
having a WATER RESISTING surface.

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JAN 13 1965





Orig. X Sec. San Vicente Dam  
Continued from Book # 575

Sta.	+	X	-	Elev.
B.M. #13	10.88	617.04		606.16
11+50				
20' S.			13.0	604.0 ✓
30' S.			9.2	607.8 ✓
40' S.			6.0	611.0 ✓
50' S.			2.0	615.0 ✓
11+60				
40' S.			1.8	615.2 ✓
30' S.			5.0	612.0 ✓
20' S.			8.0	609.0 ✓
10' S.			11.1	605.9 ✓
5' S.			14.0	603.0 ✓
11+70				
10' S.			8.1	608.9 ✓
15' S.			5.4	611.6 ✓
20' S.			4.6	612.4 ✓
11+80				
20' S.			2.2	614.8 ✓
16' S.			3.4	613.6 ✓
10' S.			6.2	610.8 ✓
Φ			8.9	608.1 ✓
10' N.			9.8	607.2 ✓
20' N.			12.1	604.9 ✓
11+90				
Φ			1.3	615.7 ✓

Sept. 20 - 1941 2:30 P.M.

Bock - Engineer Polak - Rod

Isbell - Chief Cole - Chain

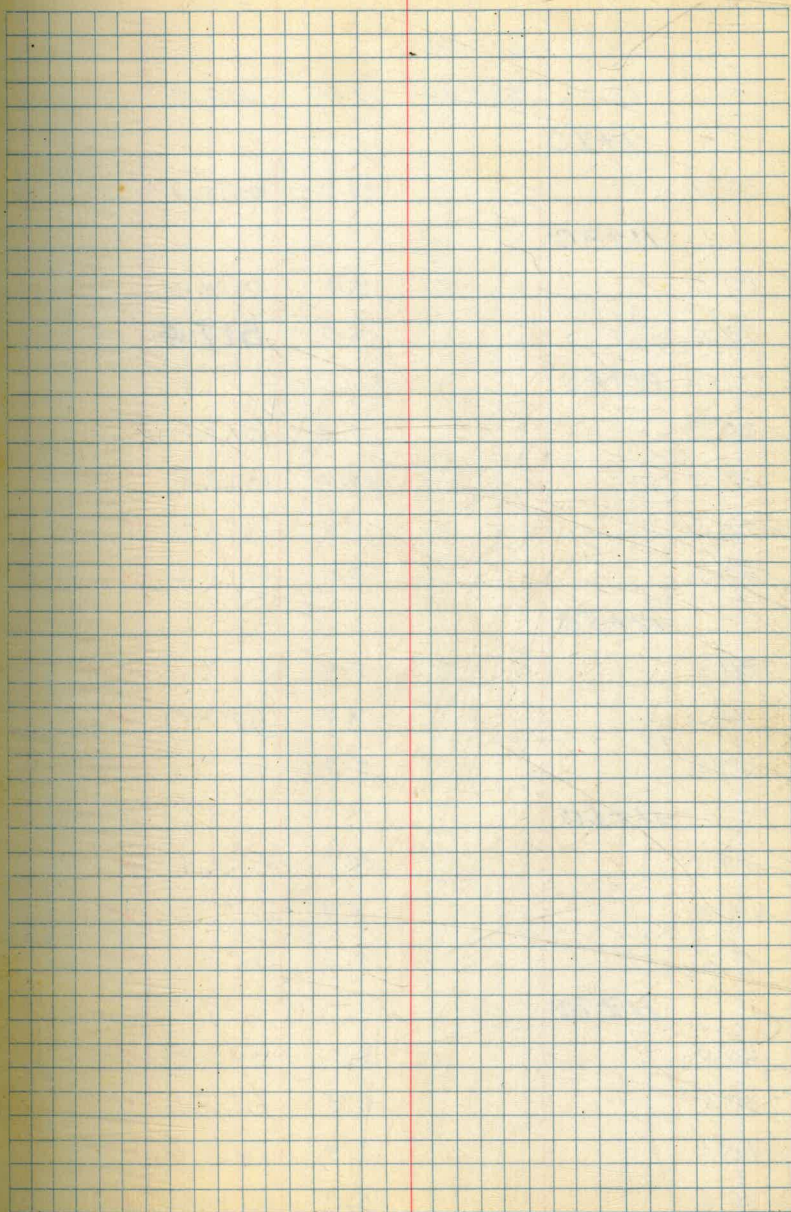
King - Level Lane - Chain

3

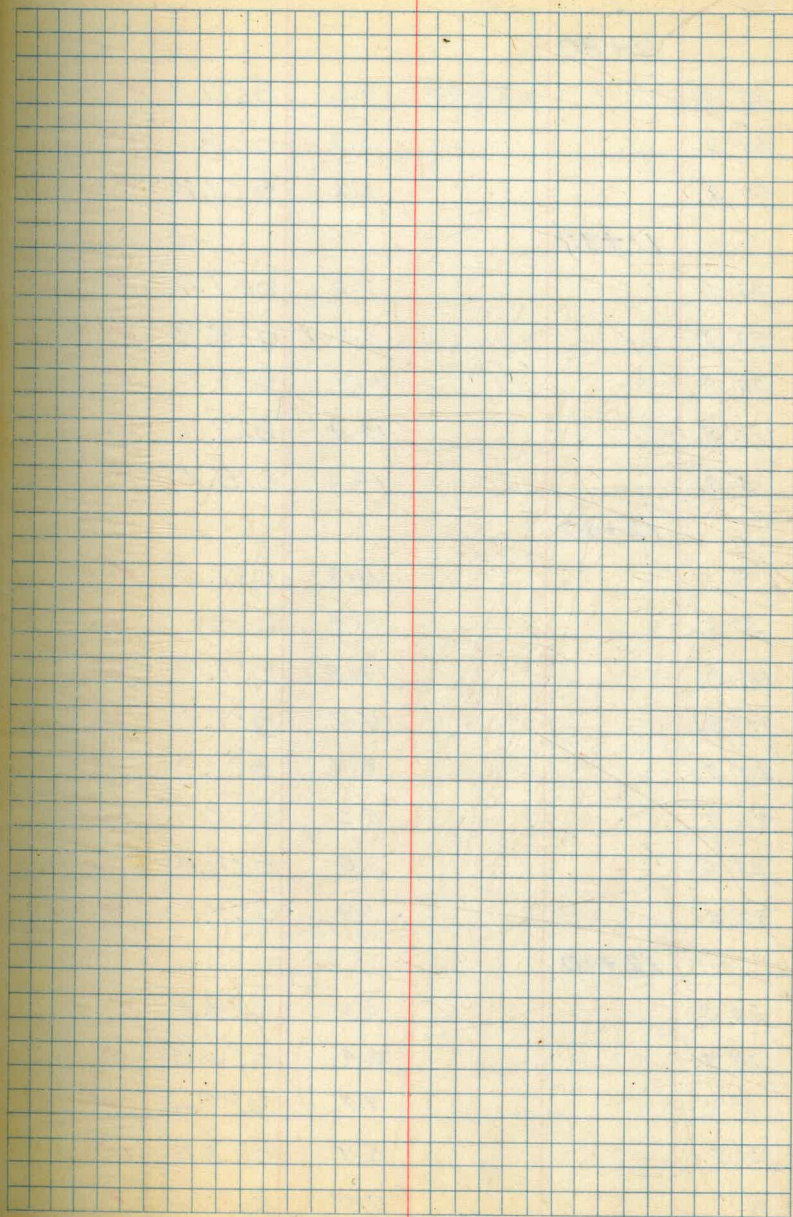
40' North of Axis

Isolated Boulder #34  
4' x 2.5' x 1.5'

Sta.	+	X	-	Elev.
10' N.		617.04	5.0	612.0 ✓
20' N.			8.1	608.9 ✓
30' N.			10.1	606.9 ✓
40' N.			12.6	604.4 ✓
12+00				
40' N.			12.1	604.9 ✓
30' N.			8.8	608.2 ✓
27' N.			6.4	610.6 ✓
20' N.			3.4	613.6 ✓
10' N.			1.0	616.0 ✓
12+10				
60' N.			11.6	605.4 ✓
50' N.			11.4	605.6 ✓
40' N.			7.8	609.2 ✓
30' N.			7.0	610.0 ✓
20' N.			2.5	614.5 ✓
12+20				
30' N.			1.8	615.2 ✓
40' N.			4.4	612.6 ✓
46' N.			6.5	610.5 ✓
50' N.			6.0	611.0 ✓
54' N.			5.0	612.0 ✓
60' N.			8.2	608.8 ✓
12+30				
60' N.			3.0	614.0 ✓



Std.	+	x	-	Elev.
		617.04		
TP	13.23	629.40 ✓	0.87	616.17 ✓
	11+20			
80' S.			13.0	616.4 ✓
	11+30			
80' S.			9.8	619.6 ✓
70' S.			12.0	617.4 ✓
	11+40			
60' S.			15.8	613.6 ✓
65' S.			10.1	619.3 ✓
70' S.			7.9	621.5 ✓
80' S.			6.0	623.4 ✓
	11+50			
80' S.			2.3	627.1 ✓
70' S.			7.4	6220 ✓
60' S.			9.3	620.1 ✓
	11+60			
50' S.			10.1	619.3 ✓
60' S.			5.9	623.5 ✓
70' S.			2.7	626.7 ✓
	11+70			
60' S.			3.9	625.5 ✓
50' S.			6.3	623.1 ✓
40' S.			9.7	619.7 ✓
30' S.			13.0	616.4 ✓



Sta.	+	-	Elev.	
<b>11+80</b>				
30' S.	629.40	9.2	620.2	✓
40' S.		5.3	624.1	✓
50' S.		2.2	627.2	✓
<b>11+90</b>				
40' S.		2.0	627.4	✓
30' S.		5.2	624.2	✓
20' S.		11.3	618.1	✓
10' S.		16.4	613.0	✓
3' S.		14.0	615.4	✓
<b>12+00</b>				
♠		11.9	617.5	✓
5' S.		11.4	618.0	✓
10' S.		12.4	617.0	✓
15' S.		11.7	617.7	✓
20' S.		8.4	621.0	✓
23' S.		5.9	623.5	✓
25' S.		3.0	626.4	✓
30' S.		1.3	628.1	✓
<b>12+10</b>				
20' S.		5.1	624.3	✓
10' S.		6.4	623.0	✓
8' S.		7.0	622.4	✓
5' S.		5.9	623.5	✓
♠		9.0	620.4	✓



Sta.	+	$\pi$	-	Elev.	
10' N.		629.40	9.6	619.8	✓
	12+20				
10' S.			0.0	629.4	✓
4			3.7	625.7	✓
5' N.			3.4	626.0	✓
10' N.			4.9	624.5	✓
13' N.			8.8	620.6	✓
20' N.			12.1	617.3	✓
	12+30				
50' N.			12.0	617.4	✓
40' N.			9.1	620.3	✓
30' N.			5.5	623.9	✓
28' N.			5.9	623.5	✓
26' N.			8.6	620.8	✓
22' N.			9.2	620.2	✓
20' N.			5.8	623.6	✓
13' N.			5.9	623.5	✓
10' N.			3.7	625.7	✓
	12+40				
20' N.			0.3	629.1	✓
28' N.			2.5	626.9	✓
30' N.			0.0	629.4	✓
40' N.			2.3	627.1	✓
50' N.			4.9	624.5	✓
60' N.			7.7	621.7	✓

Sta.	+	X	-	Elev.
12+50				
60' N.		629.40	5.0	624.4 ✓
TP	12.88	642.01 ✓	0.27	629.13 ✓
B.M. #1A			11.16	630.85 630.83

Corrected X 641.99

Sept. 22-1941  
 Isbell - Chief  
 Jackson - X  
 Polak - Rod  
 King - Chain  
 Cole - Chain

30' N. of Axis

12+50				
50' N.			12.5	620.5 ✓
40' N.			8.4	633.6 ✓
30' N.			9.9	632.1 ✓
20' N.			9.6	632.4 ✓
10' N.			5.0	637.0 ✓
±			1.5	640.5 ✓

Isolated Boulder #35  
2' x 1.5' x 2.5'

12+60				
20' N.			2.2	639.8 ✓
22' N.			2.5	639.5 ✓
23' N.			0.0	642.0 ✓
30' N.			2.5	639.5 ✓
40' N.			6.1	635.9 ✓
44' N.			5.8	636.2 ✓
46' N.			8.4	633.6 ✓
50' N.			10.0	632.0 ✓
60' N.			11.6	630.4 ✓

Sta.	+	π	-	Elev.	
	12+70				
60' N.		641.99	5.8	636.2	✓
50' N.			5.4	636.6	✓
40' N.			2.3	639.7	✓
	11+60				
80' S.			12.1	629.9	✓
	11+70				
80' S.			8.1	633.9	✓
70' S.			11.8	630.2	✓
	11+80				
80' S.			2.8	639.2	✓
70' S.			7.4	634.6	✓
60' S.			11.7	630.3	✓
	11+90				
70' S.			3.3	638.7	✓
60' S.			7.0	635.0	✓
50' S.			11.5	630.5	✓
	12+00				
40' S.			9.8	632.2	✓
50' S.			5.6	636.4	✓
60' S.			2.4	639.6	✓
	12+10				
25' S.			15.3	626.7	✓
30' S.			11.7	630.3	✓
40' S.			4.9	637.1	✓
45' S.			0.2	641.8	✓

Isolated Boulder group #36  
 9' x 4' x 1.5'  
 3' x 3.5' x 1' at 12+10-60' S. #37

Sta.	+	∓	-	Elev.
12+20				
40' S.		641.99	2.7	639.3 ✓
30' S.			6.5	635.5 ✓
28' S.			8.1	633.9 ✓
20' S.			8.8	633.2 ✓
12+30				
3' N.			11.8	630.2 ✓
2' N.			9.1	632.9 ✓
♠			8.9	633.1 ✓
3' S.			9.5	632.5 ✓
5' S.			6.8	635.2 ✓
10' S.			5.3	636.7 ✓
20' S.			3.2	638.8 ✓
25' S.			3.9	638.1 ✓
30' S.			2.9	639.1 ✓
35' S.			2.0	640.0 ✓
12+35 South Only				
♠		641.99	7.3	634.7 ✓
2' S.			6.8	635.2 ✓
5' S.			4.6	637.4 ✓
7' S.			3.2	638.8 ✓
10' S.			2.7	639.3 ✓
16' S.			1.0	641.0 ✓
20' S.			2.1	639.9 ✓
25' S.			2.1	639.9 ✓

Sta.	+	x	-	Elev.
<b>12+40</b>				
20' S.		641.99	1.1	640.9 ✓
17' S.			1.0	641.0 ✓
10' S.			3.9	638.1 ✓
Ø			5.3	636.7 ✓
5' N.			6.6	635.4 ✓
10' N.			11.1	630.9 ✓
13' N.			11.4	630.6 ✓
TP	12.95	654.78 ✓	0.16	641.83 ✓
<b>11+90</b>				
80' S.			10.7	644.1 ✓
<b>12+00</b>				
80' S.			7.4	647.4 ✓
78' S.			9.2	645.6 ✓
73' S.			12.1	642.7 ✓
70' S.			11.0	643.8 ✓
<b>12+10</b>				
70' S.			5.1	649.7 ✓
60' S.			8.7	646.1 ✓
50' S.			11.4	643.4 ✓
<b>12+20</b>				
43' S.			13.6	641.2 ✓
45' S.			11.3	643.5 ✓
50' S.			8.7	646.1 ✓
60' S.			4.0	650.8 ✓

Sta.	+	∓	-	Elev.	
12+30					
40' S.		654.78	10.8	644.0	✓
50' S.			7.5	647.3	✓
12+35					
30' S.			13.0	641.8	✓
35' S.			9.4	645.4	✓
40' S.			8.3	646.5	✓
50' S.			4.6	650.2	✓
12+40					
40' S.			4.4	650.4	✓
30' S.			8.6	646.2	✓
12+50					
3' S.			11.9	642.9	✓
10' S.			12.0	642.8	✓
17' S.			9.6	645.2	✓
20' S.			6.8	648.0	✓
24' S.			3.5	651.3	✓
30' S.			3.0	651.8	✓
12+60					
20' S.			0.0	654.8	✓
16' S.			3.2	651.6	✓
10' S.			3.3	651.5	✓
5' S.			3.8	651.0	✓
2' S.			6.1	648.7	✓
∅			6.4	648.4	✓

Sta.	+	π	-	Elev.	
5' N.		654.78	7.4	647.4	✓
10' N.			11.8	643.0	✓
15' N.			14.6	640.2	✓
12+70					
37' N.			10.7	644.1	✓
30' N.			8.4	646.4	✓
22' N.			7.7	647.1	✓
20' N.			9.4	645.4	✓
15' N.			7.6	647.2	✓
10' N.			7.6	647.2	✓
5' N.			4.4	650.4	✓
4			3.8	651.0	✓
2' S.			2.4	652.4	✓
6' S.			3.2	651.6	✓
8' S.			0.0	654.8	✓
12+80					
7' N.			1.7	653.1	✓
10' N.			2.1	652.7	✓
12' N.			3.3	651.5	✓
20' N.			2.2	652.6	✓
30' N.			0.7	654.1	✓
37' N.			5.3	649.5	✓
40' N.			6.0	648.8	✓
45' N.			4.1	650.7	✓
46' N.			6.3	648.5	✓

Sta.	+	$\pi$	-	Elev.
50' N.		654.78	7.2	647.6 ✓
53' N.			9.6	645.2 ✓
60' N.			11.6	643.2 ✓
12+90				
60' N.			0.8	654.0 ✓
TP	12.73	666.27 ✓	1.24	653.54 ✓
B.M. # 15			10.33	655.94 ✓ 655.95
Corrected $\pi$		666.28 ✓		
12+10				
80' S.			13.7	652.6 ✓
12+20				
80' S.			9.1	657.2 ✓
70' S.			12.1	654.2 ✓
12+30				
70' S.			8.6	657.7 ✓
60' S.			11.8	654.5 ✓
12+40				
60' S.			8.7	657.6 ✓
50' S.			11.5	654.8 ✓
12+50				
40' S.			5.1	661.2 ✓
38' S.			7.9	658.4 ✓
35' S.			8.1	658.2 ✓
12+60				
40' S.			2.1	664.2 ✓

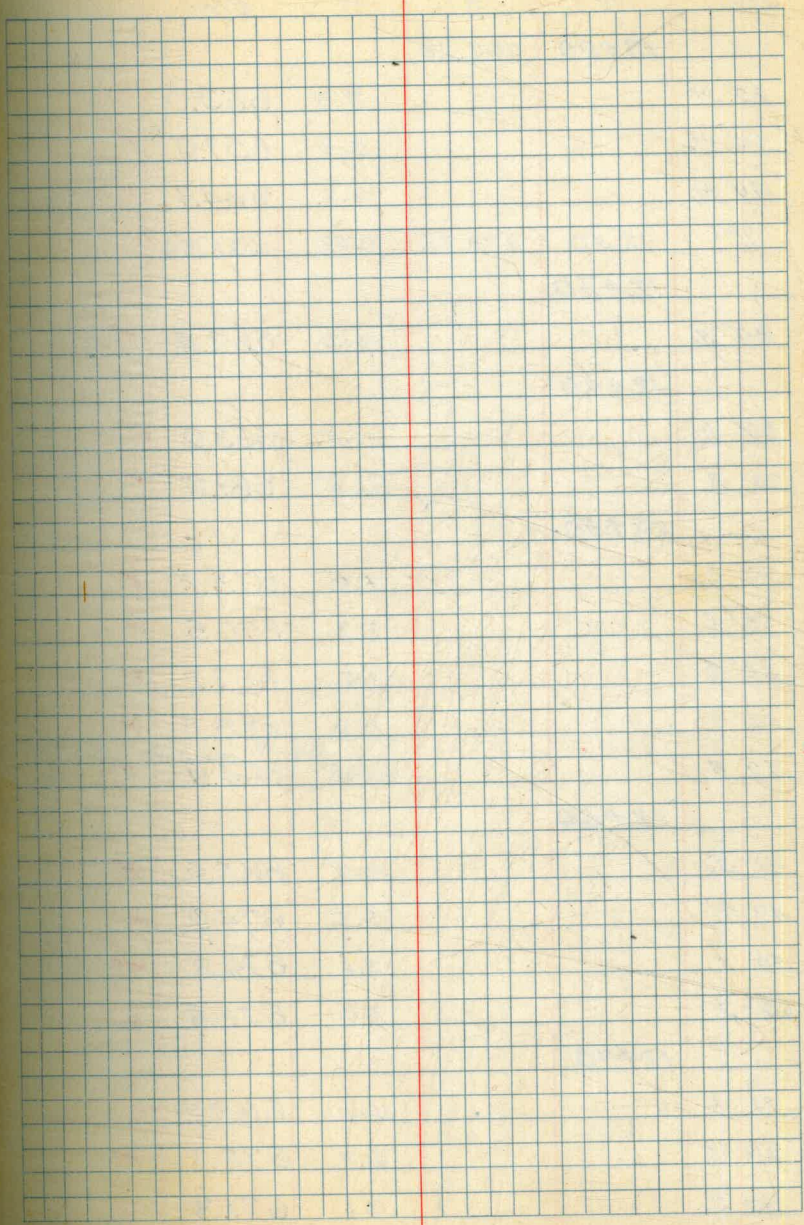
Isolated Boulder # 38  
3' x 3.5' x 1.5'

25' N. of Axis

Isolated Boulder # 39  
6' x 5.5' x 2.5'



Sta.	+	π	-	Elev.	
30' S.		666.28	4.2	662.1	✓
28' S.			5.5	660.8	✓
12+70					
10' S.			10.9	655.4	✓
13' S.			8.9	657.4	✓
15' S.			3.7	662.6	
18' S.			1.5	664.8	✓
20' S.			0.7	665.6	✓
12+80					
5' N.			11.0	655.3	✓
2' N.			6.4	659.9	✓
ϕ			4.7	661.6	✓
3' S.			2.3	664.0	✓
8' S.			0.0	666.3	✓
12+90					
50' N.			12.7	653.6	✓
40' N.			11.7	654.6	✓
35' N.			11.9	654.4	✓
30' N.			8.3	658.0	✓
23' N.			4.3	662.0	✓
20' N.			5.7	660.6	✓
13' N.			9.3	657.0	✓
10' N.			8.2	658.1	✓
5' N.			4.9	661.4	✓
1' N.			0.8	665.5	✓
ϕ			0.8	665.5	✓



Sta.	+	κ	-	Elev.
	13+00	666.28		
60' N.			3.3	663.0 ✓
50' N.			8.4	657.9 ✓
40' N.			2.2	664.1 ✓
TP	12.50	678.36	0.42	665.86 ✓
	12+30			
80' S.			16.0	662.4 ✓
	12+40			
80' S.			14.5	663.9 ✓
70' S.			16.5	661.9 ✓
	12+50			
80' S.			5.2	673.2 ✓
70' S.			7.9	670.5 ✓
60' S.			11.2	667.2 ✓
55' S.			11.6	666.8 ✓
50' S.			13.5	664.9 ✓
	12+60			
41' S.			12.5	665.9 ✓
48' S.			3.5	674.9 ✓
50' S.			3.6	674.8 ✓
53' S.			2.0	676.4 ✓
	12+70			
22' S.			10.2	668.2 ✓
25' S.			6.3	672.1 ✓
30' S.			7.1	671.3 ✓

Isolated Boulder # 40  
8' x 5' x 1.5'

Sta.	+	∓	-	Elev.	
32' S.		678.36	7.4	671.0	✓
40' S.			2.2	676.2	✓
12+80					
10' S.			10.5	667.9	✓
20' S.			5.9	672.5	✓
30' S.			1.8	676.6	✓
35' S.			0.8	677.6	✓
12+90					
4' S.			6.6	671.8	✓
10' S.			4.9	673.5	✓
16' S.			3.8	674.6	✓
20' S.			3.0	675.4	✓
13+00					
30' N.			11.2	667.2	
20' N.			8.3	670.1	✓
10' N.			6.3	672.1	✓
∅			4.06	674.30	✓
10' S.			1.9	676.5	✓
15' S.			1.5	676.9	✓
20' S.			0.2	678.2	✓
TP	13.19	691.25	0.30	678.06	✓
30' S.			0.9	690.3	✓
12+90					
30' S.			12.0	679.2	-
40' S.			0.4	690.8	-

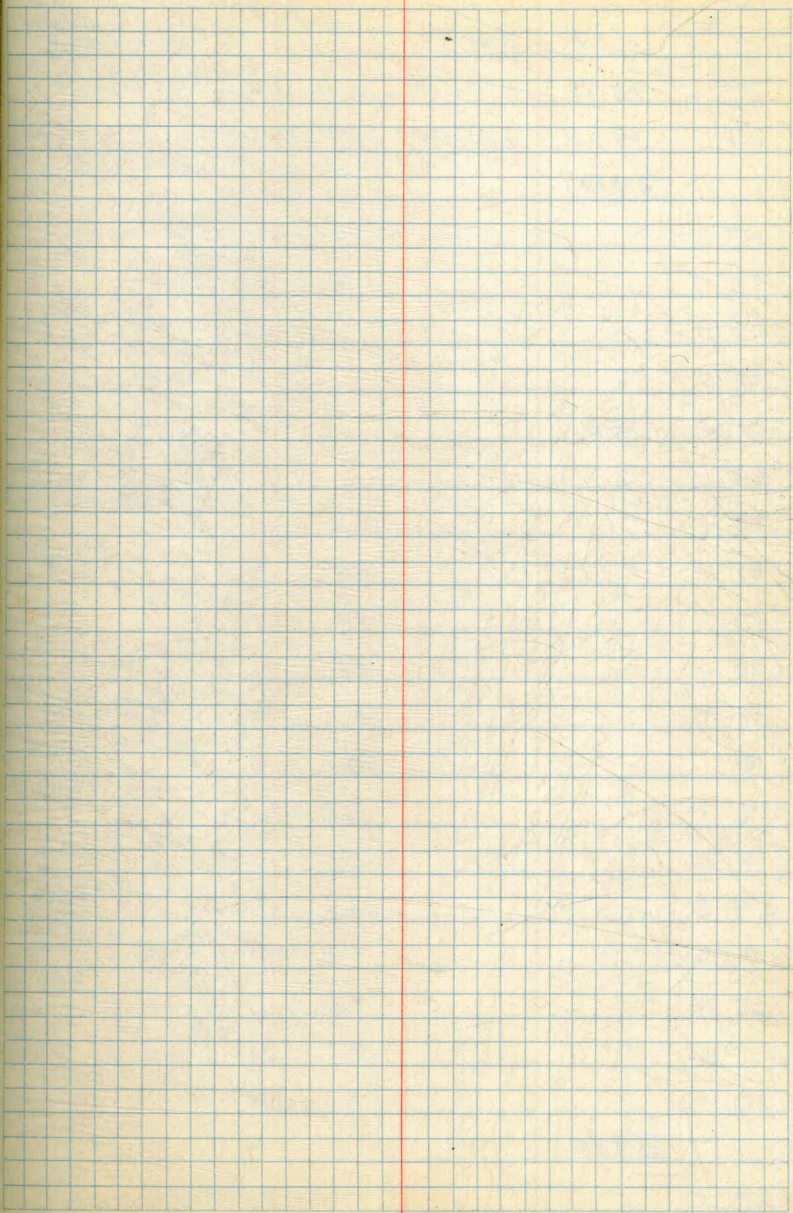
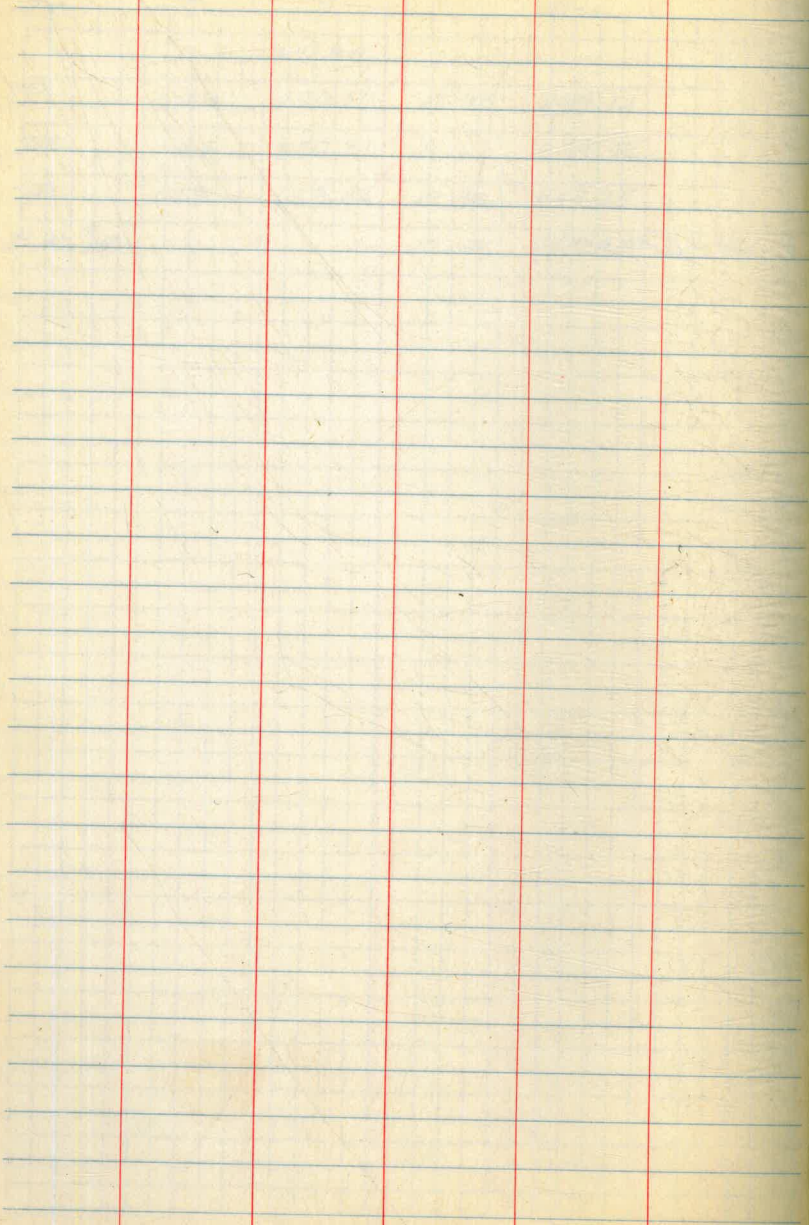
B.M. on Axis Iron Pin at 13+00

Isolated Boulder #A1  
11' x 11' x 10'

Sta.	+	x	-	Elev.
12+80				
40'S.		691.25	9.0	682.2 -
42'S.			8.0	683.2 -
12+70				
50'S.			4.1	687.1 -
52'S.			1.9	689.3 -
55'S.			1.3	689.9 -
12+60				
60'S.			2.9	688.3 -
TP	12.26	701.84	1.67	689.58 ✓
12+70				
55'S.			9.4	692.4 ✓
60'S.			8.8	693.0 -
12+80				
50'S.			7.8	694.0 -
60'S.			4.3	697.5 -
12+90				
45'S.			7.9	693.9 -
50'S.			6.0	695.8 -
60'S.			1.5	700.3 -
13+00				
34'S.			9.1	692.7 -
40'S.			7.6	694.2 -
50'S.			3.0	698.8 -
60'S.			1.0	700.8 -

Sta.	+	$\pi$	-	Elev.
		701.84		
TP	1.39	690.53	12.70	689.14
TP	1.29	680.21	11.61	678.92
TP	1.19	668.44	12.96	667.25
B.M. #15			12.49	655.95
				655.95

65' N. of Axis



Orig. X Sec. San Vicente Dam.

Sta.	+	X	-	Elev.
B.M. #5	11.89	649.63		637.74
TP	12.71	662.34	0.00	649.63
TP	13.20	675.19	0.35	661.99
<b>3+01</b>				
60' S.			1.3	673.9 -
58' S.			1.3	673.9 -
52' S.	3.0			678.2 -
50' S.	2.7			677.9 -
40' S.	2.6			677.8 -
34' S.	2.6			677.8 -
30' S.			0.0	675.2 -
27' S.			3.5	671.7 -
22' S.			4.2	671.0 -
20' S.			3.0	672.2 -
10' S.			8.1	667.1 -
±			10.2	665.0 -
2' N.			9.9	665.3 -
4' N.			9.1	666.1 -
7' N.			10.4	664.8 -
9' N.			7.2	668.0 -
10' N.			7.2	668.0 -
16' N.			11.2	664.0 -
20' N.			13.1	662.1 -
<b>3+11</b>				
60' S.			0.4	674.8 -

Isbell - Chief  
 Jackson - Level  
 Polak - Rod  
 Cole - Chain  
 King - Chain

3+51 60' N. of Axis

Sta.	+	X	-	Elev.	
52' S.		675.19	1.3	673.9	-
51' S.	0.6			675.8	-
50' S.	0.6			675.8	-
40' S.			1.4	673.8	-
34' S.			2.4	672.8	-
30' S.			1.7	673.5	-
24' S.			3.2	672.0	-
20' S.			7.7	667.5	-
10' S.			10.0	665.2	-
£			12.4	662.8	-
6' N.			12.6	662.6	-
10' N.			13.7	661.5	-
3+21					
60' S.			5.0	670.2	-
52' S.			5.2	670.0	-
50' S.			3.7	671.5	-
49' S.			2.0	673.2	-
40' S.			4.3	670.9	-
38' S.			4.5	670.7	-
37' S.			1.9	673.3	-
30' S.			6.0	669.2	-
21' S.			8.9	666.3	-
20' S.			12.1	663.1	-
10' S.			13.1	662.1	-
£			14.7	660.5	-

Isolated Boulder # 42  
15' x 2' x 3'



Sta.	+	x	-	Elev.
3+31				
60' S.		675.19	11.8	663.4 -
52' S.			12.2	663.0 -
50' S.			9.6	665.6 -
45' S.			9.2	666.0 -
44' S.			7.4	667.8 -
40' S.			7.3	667.9 -
30' S.			9.0	666.2 -
20' S.			14.5	660.7 -
TP	0.50	662.84	12.85	662.34 -
3+01				
30' N.			7.2	655.6 -
33' N.			10.8	652.0 -
40' N.			12.3	650.5 -
46' N.			11.9	650.9 -
48' N.			14.3	648.5 -
50' N.			15.4	647.4 -
3+11				
40' N.			12.9	649.9 -
39' N.			14.8	648.0 -
34' N.			14.2	648.6 -
30' N.			9.2	653.6 -
22' N.			6.4	656.4 -
20' N.			3.6	659.2 -

Sta.	+	$\pi$	-	Elev.	
<b>3+21</b>					
10' N.		662.84	3.0	659.8	-
20' N.			8.7	654.1	-
24' N.			10.6	652.2	-
25' N.			8.1	654.7	-
<b>3+31</b>					
10' S.			3.7	659.7	-
$\emptyset$			6.9	655.9	-
10' N.			9.3	653.5	-
20' N.			12.5	650.3	-
22' N.			13.4	649.4	-
<b>3+41</b>					
60' S.			4.5	658.3	-
50' S.			3.8	659.0	-
40' S.			4.8	658.0	-
30' S.			2.8	660.0	-
20' S.			7.1	655.7	-
15' S.			7.6	655.2	-
10' S.			9.2	653.6	-
$\emptyset$			14.0	648.8	-
<b>3+46</b>					
60' S.			5.5	657.3	-
50' S.			6.3	656.5	-
45' S.			6.0	656.8	-
40' S.			7.6	655.2	-

Sta.	+	X	-	Elev.
30' S.		662.84	10.4	652.4 -
26' S.			12.4	650.4 -
20' S.			12.6	650.2 -
15' S.			12.0	650.8 -
10' S.			13.7	649.1 -
3+51				
55' S.			7.6	655.2 -
50' S.			8.3	654.5 -
40' S.			9.7	653.1 -
30' S.			10.9	651.9 -
27' S.			11.2	651.6 -
26' S.			13.1	649.7 -
20' S.			14.9	647.9 -
3+61				
60' S.			10.5	652.3 -
50' S.			10.5	652.3 -
40' S.			10.8	652.0 -
30' S.			13.4	649.4 -
TP	0.77	651.16	12.45	650.39
3+01				
60' N.			3.3	647.9 -
3+11				
60' N.			5.5	645.7 -
50' N.			5.0	646.2 -
49' N.			1.3	649.9 -

Isolated Boulders  
 3' x 3' x 1' #43  
 2' x 3' x 1.5' #44  
 4' x 5' x 1.5' #45  
 7' x 8' x 2' #46

Sta.	+	-	Elev.
	3+21		
27' N.	651.16	2.9	648.3 -
30' N.		3.6	647.6 -
34' N.		4.7	646.5 -
35' N.		7.2	644.0 -
40' N.		7.3	643.9 -
50' N.		8.7	642.5 -
60' N.		10.2	641.0 -
TP		0.77	650.39 ✓

0.70 651.09 ✓

3+31

651.09 ✓

24' N		5.2	645.9 -
30' N		6.1	645.0 -
34' N		7.0	644.1 -
35' N		9.7	641.4 -
40' N		10.3	640.8 -
50' N		11.6	639.5 -
60' N		12.6	638.5 -

3+41

60' N	651.09	14.7	636.4 -
50' N		14.6	636.5 -
40' N		14.0	637.1 -
35' N		13.3	637.8 -
30' N		8.8	642.3 -

Isolated Boulder  
4' x 2' x 2.5' #47Isolated Boulder.  
8' x 6' x 2' #48

Sept 22

Isobel - Ch. of Fly  
Eckee Notes  
Jackson list  
Cole Tape  
Polak #  
King Tape

Isolated boulders

6 x 6 x 2.5	# 49
3.5 x 2.5 x 3.5	# 50
3 x 2 x 6	# 51
4 x 4 x 6	# 52

Sta	+ 3+41	$\pi$ 651.09	- 7.0	ELEV 644.1	-
20' N				644.1	-
10' N			5.2	645.9	-
	3+46				
£			6.0	645.1	-
10' N			6.4	644.7	-
20' N			8.6	642.5	-
25' N			11.1	640.0	-
30' N			13.0	638.1	-
40' N			15.1	636.0	-
50' N			17.4	633.7	-
	3+51				
30' N			14.2	636.9	-
25' N			12.9	638.2	-
20' N			10.3	640.8	-
10' N			8.9	642.2	-
£			7.2	643.9	-
13' S			3.6	647.5	-
10' S			4.4	646.7	-
	3+61				
	651.09				
20' S			6.3	644.8	-
15' S			7.6	643.5	-
14' S			10.2	640.9	-
10' S			10.5	640.6	-

Isolated Boulders  
 4' x 5' x 1' #53 on Axis  
 2' x 3' x 1' #54

Sta	T	π	-	ELEV
3+61				
5'S		651.09	12.4	638.7 -
E			12.2	638.9 -
10'N			12.9	638.2 -
20'N			13.7	637.4 -
3+71				
80'S			1.8	649.3 -
70'S			1.8	649.3 -
60'S			2.7	648.4 -
50'S			3.6	647.5 -
40'S			5.0	646.1 -
30'S			6.8	644.3 -
23'S			8.6	642.5 -
20'S			15.0	636.1 -
16'S			13.9	637.2 -
13'S			8.1	643.0 -
10'S			8.1	643.0 -
E			9.7	641.4 -
P			9.8	641.91 -
	485	646.76		
3+46				
60'N			15.6	631.2 -
3+51				
60'N			16.7	630.1 -
50'N			14.3	632.5 -

Isolated Boublee  
12x12x4 #55

Sta	+ 3+51	$\pi$	-	ELEV
40' N		646.76	12.9	633.9 -
			9.00	637.76 / 637.74
	Corrected H.I.	646.74		
33' N			11.8	634.9 -
	3+61			
30' N			13.6	633.1 -
40' N			16.0	630.7 -
	3+71			
10' N			9.8	636.9 -
20' N			12.8	633.9 -
	3+81			
80' S	646.74	1.3	645.4	-
70' S		2.9	643.8	-
60' S		3.7	643.0	-
50' S		3.4	643.3	-
43' S		2.6	644.1	-
40' S		3.1	643.6	-
35' S		6.2	640.5	-
33' S		6.1	640.6	-
30' S		7.8	638.9	-
29' S		4.9	641.8	-
20' S		4.8	641.9	-
10' S		7.9	638.8	-
$\Sigma$		11.8	634.9	-

B.M. #5

7' x 6' x 15'	Boulder # 56	3+71 - 2.5' N.
45' x 25' x 3'	# 57	" " 15' N.
75' x 2' x 25'	# 58	3+77 20' N.
35' x 4' x 15'	# 59	" " 2.5' N.
3' x 5' x 4'	# 60	" " 5' N.
5' x 7' x 3.5'	# 61	" " 10' N.
9' x 4' x 5'	# 62	3+80 20' N.

STO +  $\pi$  - ELEV

3+91

646.74

80' S		8.6	638.1	-
70' S		9.5	637.2	-
60' S		8.4	638.3	-
50' S		7.8	638.9	-
43' S		4.9	641.8	-
40' S		4.3	642.4	-
33' S		4.6	642.1	-
32' S		7.4	639.3	-
30' S		7.6	639.1	-
20' S		8.9	637.8	-
10' S		12.6	634.1	-
E		15.7	631.0	-
TP	646.74	10.41	636.33	✓

0.90 637.23 ✓

3+61

50' N		8.4	623.8	-
60' N		10.6	626.6	-

3+71

60' N		12.4	624.8	-
50' N		10.5	626.7	-
40' N		9.4	627.8	-
30' N		7.0	630.2	-



STO	T	N	-	ELEV
	3+81			
	637.23			
60' N		16.9	620.3	-
50' N		12.7	624.5	-
40' N		<del>10.9</del>	626.3	-
30' N		8.6	628.6	-
20' N		7.1	630.1	-
10' N		5.3	631.9	-
	3+91			
10' N		7.7	629.5	-
20' N		10.3	626.9	-
30' N		11.2	626.0	-
40' N		12.7	624.5	-
50' N		14.3	622.9	-
60' N		19.0	618.2	-
TP	637.23	9.20	628.03	
	9.21	637.24		
	4+01			
40' N	637.24	16.0	621.2	-
30' N		14.6	622.6	-
20' N		12.8	624.4	-
10' N		10.3	626.9	-
ℓ		9.6	627.6	-
10' S		9.0	628.2	-
20' S		8.0	629.2	-

Isolated Boulder  
 #63 - 6° x 6° x 15°  
 #64 35° x 35° x 4°

Group - 3 Boulders  
 45° x 45° x 5° #65

6° x 7° x 4° #66

10° x 5° x 5° #67 E of boulder is 5' W of E of  
 Blk #2 and 5' N

75° x 6° x 2° #68  
 35° x 9° x 10° #69

Sta	+ H.I.	-	ELEV
4+01			
25'S	637.24	6.8	630.4
30'S		0.6	636.6
40'S		+0.4	637.6
50'S		5.5	631.7
60'S		6.6	630.6
70'S		4.9	632.3
80'S		5.8	631.4

4+11

80'S	637.24	12.6	624.6
70'S		14.8	622.4
65'S		12.1	625.1
60'S		14.2	623.0
50'S		12.6	624.6
45'S		9.5	627.7
40'S		9.2	628.0
33'S		8.6	628.6
30'S		9.3	627.9
20'S		16.0	621.2
10'S		18.0	619.2
℄		18.1	619.1
TP	637.24	12.23	625.01
	0.03	625.04	

Sta	+ H.I.	-	ELEV	
	4+01			
50' N	625.04	5.0	620.0	-
60' N		9.0	616.0	-
	4+11			
60' N		15.0	610.0	-
50' N		11.1	613.9	-
40' N		8.0	617.0	-
37' N		7.8	617.2	-
35' N		6.3	618.7	-
30' N		6.4	618.6	-
20' N		7.0	618.0	-
10' N		8.3	616.7	-
	4+21			
50' N		14.2	610.8	-
40' N		12.2	612.8	-
35' N		9.7	615.3	-
30' N		10.5	614.5	-
20' N		11.4	613.6	-
10' N		10.9	614.1	-
5' N		12.4	612.6	-
ℓ		20.2	604.8	-
3' S		12.8	612.2	-
10' S		11.8	613.2	-
20' S		11.0	614.0	-
22' S		10.0 10.3	615.0	-

45 x 32 x 5.2 #70

62 x 72 x 15 #71

92 x 82 x 35 #72

Sta	+ HI	-	ELEV.
4+21			
26' S	625.04	6.2	618.8 -
30' S		5.6	619.4 -
40' S		4.7	620.3 -
44' S		7.8	617.2 -
50' S		7.3	617.7 -
56' S		11.7	613.3 -
60' S		11.8	613.2 -
70' S		11.3	613.7 -
72' S		11.1	613.9 -
74' S		6.1	618.9 -
80' S		5.5	619.5 -
		5.34	619.70 619.71
	5.34 625.05		
4+31			
80' S		11.1	613.9 -
70' S		13.1	611.9 -
60' S		13.2	611.8 -
50' S		12.0	613.0 -
40' S		12.4	612.6 -
30' S		12.2	612.8 -
25' S		13.0	612.0 -
20' S		16.7	608.3 -
10' S		15.3	609.7 -
4' S		18.8	606.2 -

Boulder  
7<sup>2</sup> x 12<sup>2</sup> x 5<sup>2</sup> #73

B.M. #6

Sta	+ H.I. ↑	-	ELEV.	
4+31				
£	625.05	21.7	603.3	-
2' N		19.6	605.4	-
5' N		17.8	607.2	-
10' N		11.1	613.9	-
20' N		11.0	614.0	-
		5.34	619.71	B.M.#6

0.12 619.83 ✓

4+37 South Only

80' S	619.83	9.2	610.6	-
70' S		8.0	611.8	-
60' S		11.3	608.5	-
50' S		12.4	607.4	-

4+41

80' S		10.6	609.2	-
75' S		10	618.8	-
70' S		0.5	619.3	-
64' S		1.1	618.7	-
60' S		6.9	612.9	-
58' S		13.4	604.6	-
50' S		15.2	603.6	-

4+46 South Only

50' S		18.4	601.4	-
56' S		17.4	602.4	-
60' S		6.4	613.4	-

Sta.	I	H.I.	-	ELEV.	
4 + 46 (South Only)					
70' S		619.83	2.2	617.6	-
76' S			4.3	615.5	-
80' S			11.6	608.2	-
4 + 21					
60' N			12.9	606.9	-
4 + 31					
60' N			14.6	605.2	-
50' N			13.8	606.0	-
40' N			12.1	607.7	-
30' N			11.5	608.3	-
23' N			10.8	609.0	-
TP		619.83	12.78	607.05	-
	2.96	610.01			
4 + 41					
40' S		610.01	6.4	603.6	-
30' S			8.1	601.9	-
20' S			7.9	602.1	-
10' S			9.8	600.2	-
£			12.3	597.7	-
2' N			10.6	599.4	-
10' N			9.6	600.4	-
20' N			9.1	600.9	-
30' N			6.8	603.2	-
40' N			6.2	603.8	-

Sta	+	H.L.	-	ELEV
	4+41			
		610.01		
50' N			4.5	605.5 -
60' N			5.2	604.8 -
	4+51			
60' N			16.5	593.5 -
50' N			14.0	595.6 -
40' N			12.3	597.7 -
30' N			12.4	597.6 -
20' N			14.0	596.0 -
10' N			14.7	595.3 -
2' N			17.3	592.7 -
10' S			4.8	605.2 -
60' S			<del>5.8</del> 6	604.2 -
57' S			10.7	599.3 -
50' S			11.4	598.6 -
40' S			12.1	597.9 -
30' S			12.4	597.6 -
	4+61			
80' S			11.4	598.6 -
70' S			9.7	600.3 -
63' S			15.7	594.3 -
60' S			16.9	593.1 -
TP		610.01	12.81	597.20 ✓
	1.19	598.39		

Boulder  
4" x 4" x 15 #74

Boulders  
2 Rocks  
11" x 6" x 2" #75-2  
45" x 15" x 9" #76-2 Rocks

STN	+	H.I.	-	ELEV
	4+61			
57' S		598.39	4.5	593.9 ✓
56' S			2.5	595.9 ✓
50' S			3.2	595.2 ✓
40' S			6.0	592.4 ✓
38' S			8.8	589.6 ✓
30' S			8.9	589.5 ✓
20' S			9.6	588.6 ✓
10' S			9.4	589.0 ✓
Σ			11.3	587.1 ✓
	4+51			
20' S			1.4	597.0 ✓
10' S			2.7	595.7 ✓
7' S			6.9	591.5 ✓
Σ			12.2	586.2 ✓
	4+61			
10' N			9.6	588.8 ✓
20' N			10.1	588.3 ✓
30' N			<del>6.9</del>	592.4 ✓
40' N			7.6	590.8 ✓
45' N			6.9	591.5 ✓
50' N			7.3	591.1 ✓
60' N			9.7	588.7 ✓
			0.79	597.60 ✓ 597.60
	0.79	598.39		

#77 5<sup>2</sup> × 3<sup>2</sup> × 7<sup>2</sup> Rock Group

2<sup>2</sup> × 4<sup>2</sup> × 10<sup>2</sup> BOULDER #78

10<sup>2</sup> × 3<sup>2</sup> × 2<sup>2</sup> " #79  
3<sup>2</sup> × 4<sup>2</sup> × 2<sup>2</sup> " #80

BM # 4



Sta.	+ H.I.	-	ELEV.
	4+71		
40' N.	598.39	15.6	582.8 ✓
33' N		14.7	583.7 ✓
31' N		14.9	583.5 ✓
30' N		10.6	587.8 ✓
27' N		13.2	585.2 ✓
20' N		13.2	585.2 ✓
TP		11.95	586.44 ✓
	0.25	586.69 ✓	
10' N		4.0	582.7 ✓
£		6.3	580.4 ✓
5' S		6.2	580.5 ✓
10' S		7.8	578.9 ✓
20' S		5.1	581.6 ✓
30' S		3.4	583.3 ✓
37' S		3.5	583.2 ✓
40' S		6.0	580.7 ✓
42' S		3.8	582.9 ✓
50' S		1.5	585.2 ✓
60' S		1.4	585.3 ✓
62' S		+4.8	591.5 ✓
67' S		+2.3	589.0 ✓
70' S		+3.7	590.4 ✓
80' S		+1.9	588.6 ✓
90' S		+0.4	587.1 ✓

{ 5' x 4' x 1/8" BOULDER #81  
 7' x 6' x 3/4" " #82

Sta	+ H.I.	-	ELEV	
	4+71			
100' S	586.69	-1.0	585.7	✓
	4+81			
100' S		-6.0	580.7	✓
90' S		-6.0	580.7	✓
80' S		-5.3	581.4	✓
70' S		-6.0	580.7	✓
60' S		-8.9	577.8	✓
58' S		2.0	577.7	✓
55' S		11.0	575.7	✓
50' S		10.0	576.7	✓
46' S		10.0	576.7	✓
43' S		13.7	573.0	✓
40' S		8.8	577.9	✓
33' S		6.3	580.4	✓
31' S		7.5	579.2	✓
30' S		8.0	578.7	✓
20' S		9.3	577.4	✓
12' S		11.6	575.1	✓
	4+71			
50' N		5.3	581.4	✓
60' N		6.8	579.9	✓
	4+75 (North Only)			
40' N		6.1	580.6	✓
32' N		5.0	581.7	✓

STO.	+	H.I.	-	ELEV.
4+75 (N. only)				
30' N		586.69	7.2	579.5 ✓
20' N			2.7	584.0 ✓
12' N			3.8	582.9 ✓
10' N			6.0	580.7 ✓
5' N			7.0	579.7 ✓
£			12.3	574.4 ✓
TP		586.69	12.42	574.27 ✓
	1.25	575.52		
4+81				
10' S		575.52	2.5	573.0 ✓
5' S			6.3	569.2 ✓
4' S			9.3	566.2 ✓
£			8.8	566.7 ✓
3' N			3.1	572.4 ✓
10' N			3.0	572.5 ✓
17' N			4.0	571.5 ✓
20' N			1.0	574.5 ✓
30' N			1.2	574.3 ✓
37' N			1.4	574.1 ✓
40' N			+1.0	576.5 ✓
50' N			0.0	575.5 ✓
60' N			2.2	573.3 ✓

7° x 3° x 15

BOULDER #83

Sta.	+	H.I.	-	ELEV.	
	4+91				
60' N		575.52	8.9	566.6	✓
50' N			8.2	567.3	✓
40' N			7.3	568.2	✓
30' N			5.7	569.8	✓
20' N			6.3	569.2	✓
10' N			7.4	568.1	✓
4' N			9.5	566.0	✓
1' N			16.2	559.3	✓
℄			16.5	559.0	✓
1' S			16.5	559.0	✓
5' S			11.4	564.1	✓
10' S			8.1	567.4	✓
20' S			3.2	572.3	✓
30' S			1.0	574.5	✓
40' S			+0.2	575.7	✓
44' S			7.9	567.6	✓
50' S			4.1	571.4	✓
53' S			2.3	573.2	✓
60' S			3.3	572.2	✓
70' S			2.2	573.3	✓
80' S			1.0	574.5	✓
90' S			0.9	574.6	✓
100' S			1.1	574.4	✓
110' S			1.2	574.3	✓

15' x 15' x 3" BOULDER #84

Sta	+ H.I.	-	ELEV.
	4+91		
120' S	575.82	1.4	574.1 ✓
		9.51	566.01 ✓
			<del>565.81</del> 566.05
			Sept. 23-1941
			Isbell - Chief
			Eder - Inst
			Poldak - Rod
			King - Chain
			Cole - Chain
B.M. #7	5.92	571.93 <sup>7</sup>	
	5+01		
120' S.	+0.7		572.7 ✓
110' S.	+0.9		572.9 ✓
100' S.	+0.2		572.2 ✓
90' S.		0.2	571.8 ✓
80' S.	+0.2		572.2 ✓
70' S.		2.3	569.7 ✓
60' S.		2.7	569.3 ✓
50' S.		5.8	566.2 ✓
47' S.		4.6	567.4 ✓
40' S.		0.0	572.0 ✓
30' S.		0.6	571.4 ✓
20' S.		1.9	570.1 ✓
10' S.		6.8	565.2 ✓
2' S.		11.1	560.9 ✓
⊕		16.2	555.8 ✓
3' N		11.2	560.8 ✓

B.M. #7

Boulder #85  
7.5' x 3' x 2.5'Boulder #86  
4' x 3' x 2'

Sta.	+	X	-	Elev.	
10' N.		571.93 <sup>7</sup>	8.7	563.3	✓
20' N.			8.9	563.1	✓
30' N.			8.1	563.9	✓
40' N.			8.7	563.3	✓
50' N.			9.8	562.2	✓
60' N.			12.1	559.9	✓
	5+11				
60' N.			14.1	557.9	✓
50' N.			12.4	559.6	✓
40' N.			11.9	560.1	✓
30' N.			12.7	559.3	✓
10' S.			13.1	558.9	✓
14' S.			8.4	563.6	✓
20' S.			3.2	568.8	✓
25' S.			6.3	565.7	✓
30' S.			5.1	566.9	✓
40' S.			4.0	568.0	✓
45' S.			5.2	566.8	✓
46' S.			8.1	563.9	✓
50' S.			10.3	561.7	✓
60' S.			9.2	562.8	✓
70' S.			5.3	566.7	✓
75' S.			3.6	568.4	✓
80' S.			4.5	567.5	✓
90' S.			3.2	568.8	✓

Boulder # 87  
4' x 4.5' x 2'

Sta.	+	X	-	Elev.	
100' S.		571.9 <sup>7</sup> <del>3</del>	2.6	569.4	✓
110' S.			2.4	569.6	✓
120' S.			3.1	568.9	✓
5+16					
47' S.			14.3	557.7	✓
45' S.			4.7	567.3	✓
40' S.			5.0	567.0	✓
31' S.			4.6	567.4	✓
30' S.			9.9	562.1	✓
20' S.			11.3	560.7	✓
TP	0.95	561. <sup>15</sup> <del>#</del>	11.77	560. <sup>20</sup> <del>76</del>	
10' S.			6.4	554.7	✓
♠			10.7	550.4	✓
10' N.			9.7	551.4	✓
14' N.			9.9	551.2	✓
15' N.			3.6	557.5	✓
20' N.			3.0	558.1	✓
24' N.			5.3	555.8	✓
30' N.			3.5	557.6	✓
5+11					
20' N.			2.6	558.5	✓
10' N.			6.1	555.0	✓
♠			6.7	554.4	✓
5+21					
60' N.			6.9	554.2	✓

3 Boulders  
 3' x 1.5' x 1.5' #88  
 2.5' x 5' x 10.5' #89  
 1.5' x 7' x 5.5' #90

Boulder  
 5' x 4.5' x 1.5' #91

Boulder #92  
 3.5' x 6' x 1.5'

Sta.	+	$\bar{x}$	-	Elev.	
50' N.		561.7 <sup>15</sup>	6.4	554.7	✓
40' N.			4.0	557.1	✓
30' N.			5.5	555.6	✓
20' N.			8.5	552.6	✓
10' N.			12.4	548.7	✓
±			12.1	549.0	✓
10' S.			8.5	552.6	✓
20' S.			6.2	554.9	✓
30' S.			2.3	558.8	✓
32' S.			3.3	557.8	✓
33' S.	0.1			561.2	✓
40' S.	0.3			561.4	✓
48' S.			5.2	555.9	✓
49' S.			7.2	553.9	✓
50' S.			8.0	553.1	✓
55' S.			5.4	555.7	✓
60' S.			3.6	557.5	✓
66' S.			0.7	560.4	✓
70' S.			0.0	561.1	✓
80' S.	2.4		<del>±</del>	563.5	✓
90' S.	2.7			563.8	✓
100' S.	3.8			564.9	✓
110' S.	3.9			565.0	✓
120' S.	2.9			564.0	✓
130' S.	1.8			562.9	✓

Beulden # 93  
3' x 4' x 2'



Sta.	+	X	-	Elev.	
5+26 (South Only)					
60' S.		561.1 <sup>15</sup>	7.4	553.7	✓
53' S.			8.2	552.9	✓
50' S.			11.3	549.8	✓
46' S.			15.5	545.6	✓
43' S.			10.9	550.2	✓
40' S.			10.0	551.1	✓
30' S.			10.6	550.5	✓
20' S.			10.5	550.6	✓
5+31					
140' S.			5.8	555.3	✓
130' S.			3.1	558.0	✓
120' S.			0.0	561.1	✓
110' S.	0.2			561.3	
100' S.	0.4			561.5	
90' S.			2.5	558.6	✓
80' S.			6.1	555.0	✓
70' S.			7.0	554.1	✓
60' S.			9.0	552.1	✓
<del>52' S.</del>			8.4	552.7	✓
50' S.			9.2	551.9	✓
46' S.			12.2	548.9	✓
40' S.			12.7	548.4	✓
30' S.			14.2	546.9	✓
20' S.			12.8	548.3	✓

Boulder # 94  
 3' x 4' x 1.5'  
 4' x 3' x 3.5 #95

Boulder # 96  
 7' x 4' x 3'  
 Boulder # 97  
 3' x 3' x 9'

Sta.	+	$\pi$	-	Elev.	
		561. <sup>15</sup> <sub>71</sub>			
10' S.			14.7	546.4	✓
3' S.			15.0	546.1	✓
$\Phi$			17.8	543.3	✓
5' N.			17.8	543.3	✓
10' N.			16.8	544.3	✓
20' N.			13.3	547.8	✓
30' N.			11.0	550.1	✓
40' N.			11.9	549.2	✓
48' N.			11.5	549.6	✓
49' N.			13.5	547.6	✓
50' N.			13.8	547.3	✓
60' N.			16.3	544.8	✓
	5+34	(South Only)			
$\Phi$			20.2	540.9	✓
7' S.			18.8	542.3	✓
10' S.			15.8	545.3	✓
13' S.			15.1	546.0	✓
16' S.			10.6	550.5	✓
20' S.			11.7	549.4	✓
23' S.			18.0	543.1	✓
	5+41				
140' S.			10.2	550.9	✓
130' S.			9.3	551.8	✓
120' S.			9.0	552.1	✓

Boulder #98  
4.5' x 2.5' x 3'

Boulder #99  
6' x 3' x 6'  
7' x 7' x 2' #100

Boulder #101  
2.5' x 3' x 6'

Sta.	T	X	-	Elev.	
114' S.		561. <sup>15</sup> <del>7</del>	8.7	552.4	✓
113' S.			2.0	559.1	✓
110' S.			1.9	559.2	✓
100' S.			1.2	559.9	✓
97' S.			2.0	559.1	✓
96' S.			5.8	555.3	✓
90' S.			7.5	553.6	✓
85' S.			<del>8.5</del> <sup>10.1</sup>	551.0	✓
82' S.			8.6	552.5	✓
80' S.			12.4	548.7	✓
	5+51				
140' S.			17.2	543.9	✓
130' S.			14.3	546.8	✓
120' S.			17.0	544.1	✓
110' S.			17.8	543.3	✓
105' S.			11.4	549.7	✓
104' S.			13.4	547.7	✓
102' S.			13.4	547.7	✓
100' S.			11.0	550.1	✓
96' S.			11.2	549.9	✓
TP	152	<del>551.27</del> <sup>25</sup>	11.42	<del>549.69</del> <sup>73</sup>	✓
	5+41				
70' S.			4.8	546.4	✓
60' S.			5.7	545.5	✓
50' S.			7.9	543.3	✓

Boulder # 102  
6'4" x 3'

Sta.	+	$\pi$	-	Elev.	
40' S.		551.27 <sup>25</sup>	7.2	5440	✓
30' S.			14.2	537.0	✓
25' S.			12.1	539.1	✓
20' S.			18.8	532.4	✓
19' S.			14.4	536.8	✓
15' S.			9.7	541.5	✓
11' S.			13.2	538.0	✓
10' S.			13.0	538.0	✓
Q			12.0	539.2	✓
10' N.			13.0	538.2	✓
13' N.			13.1	538.1	✓
14' N.			7.6	543.6	✓
20' N.			6.2	545.0	✓
28' N.			5.0	546.0	✓
30' N.			10.9	540.3	✓
40' N.			11.7	539.5	✓
50' N.			11.8	539.4	✓
60' N.			12.8	538.4	✓
	5+46	(Partial Section)			
40' N.			14.1	537.1	✓
30' N.			14.3	536.9	✓
25' N.			13.5	537.7	✓
20' N.			10.8	540.4	✓
15' N.			18.5	532.7	✓
10' N.			16.1	535.1	✓

50' N. Boulder # 10<sup>13</sup>  
6' x 2' x 3'

Sta.	+	$\pi$	-	Elev.
5' N.		551.2 <sup>25</sup> <sub>7</sub>	15.5	535.7 ✓
TP	12.48	551.2 <sup>25</sup> <sub>7</sub>	12.48	538.7 <sup>77</sup> <sub>3</sub> ✓
5+51				
90' S.			8.7	542.5 ✓
80' S.			9.1	542.1 ✓
72' S.			10.1	541.1 ✓
70' S.			11.5	539.7 ✓
TP	12.1	539.4 <sup>50</sup> <sub>2</sub>	12.96	538.2 <sup>29</sup> <sub>5</sub> ✓
5+46				
40' S.			0.4	539.1 ✓
32' S.			3.3	536.2 ✓
<del>30'</del> 30' S.			5.4	534.1 ✓
22' S.			9.8	529.7 ✓
20' S.			9.1	530.4 ✓
10' S.			5.3	534.2 ✓
4			3.2	536.3 ✓
5+51				
65' S.			3.3	536.2 ✓
60' S.			3.4	536.1 ✓
54' S.			2.6	536.9 ✓
50' S.			2.6	536.9 ✓
40' S.			2.8	536.7 ✓
35' S.			5.9	533.6 ✓
30' S.			7.6	531.9 ✓
23' S.			12.0	527.5 ✓

Box # 104  
9' x 5' x 2.5'

Sta.	+	π	-	Elev.	
21' S.		539. <sup>50</sup> <del>46</del>	10.2	529.3	✓
20' S.			10.2	529.3	✓
14' S.			10.9	528.6	✓
10' S.			9.7	529.8	✓
Φ			9.5	530.0	✓
10' N.			9.9	529.6	✓
20' N.			9.0	530.5	✓
26' N.			1.9	537.6	✓
30' N.			6.0	533.5	✓
40' N.			5.8	533.7	✓
50' N.			6.6	532.9	✓
60' N.			7.0	532.5	✓
	5+56	(Partial Section)			
40' N.			7.8	531.7	✓
38' N.			10.0	529.5	✓
30' N.			10.9	528.6	✓
20' N.			12.8	526.7	✓
10' N.			13.1	526.4	✓
6' N.			12.7	526.8	✓
Φ			15.3	524.2	✓
10' S.			15.2	524.3	✓
	5+61				
150' S.			3.3	536.2	✓
140' S.			2.8	536.7	✓
130' S.			2.2	537.3	✓

Sta.	+	X	-	Elev.	
124' S.		539. <sup>50</sup> <del>72</del>	2.8	536.7	✓
122' S.	0.3			539.8	✓
120' S.	0.3			539.8	✓
110' S.			1.7	537.8	✓
105' S.			1.0	538.5	✓
104' S.	2.4			541.9	✓
101' S.	2.0			541.5	✓
100' S.	4.5			544.0	✓
98' S.	4.6			544.1	✓
94' S.			0.6	538.9	✓
90' S.			2.0	537.5	✓
85' S.			1.3	538.2	✓
84' S.			3.5	536.0	✓
80' S.			4.3	535.2	✓
73' S.			3.5	536.0	✓
70' S.			4.1	535.4	✓
65' S.			7.3	532.2	✓
60' S.			7.1	532.4	✓
54' S.			9.4	530.1	✓
50' S.			10.3	529.2	✓
47' S.			10.0	529.5	✓
40' S.			10.9	528.6	✓
32' S.			11.3	528.2	✓
30' S.			12.5	527.0	✓

Sta.	+	⊗	-	Elev.	
	5+66		(Tertial Section)		
		50 539.46			
110' S.			5.0	534.5	✓
100' S.			9.7	529.8	✓
97' S.			3.2	536.3	✓
92' S.			3.1	536.4	✓
90' S.			9.9	529.6	✓
88' S.			8.3	531.2	✓
85' S.			6.6	532.9	✓
80' S.			8.5	531.0	✓
77' S.			11.0	528.5	✓
72' S.			11.2	528.3	✓
70' S.			9.0	530.5	✓
62' S.			10.3	529.2	✓
60' S.			11.5	528.0	✓
57' S.			10.6	528.9	✓
52' S.			17.4	522.1	✓
50' S.			17.6	521.9	✓
40' S.			17.1	522.4	✓
	5+71				
160' S.			11.0	528.5	✓
154' S.			6.8	532.7	✓
150' S.			8.4	531.1	✓
140' S.			9.5	530.0	✓
130' S.			10.7	528.8	✓



Sta.	+	-	Elev.	
120' S.		9.8	5297	✓
114' S.		6.6	532.9	✓
110' S.		8.7	530.8	✓
100' S.		11.7	527.8	✓
90' S.		12.4	527.1	✓
85' S.		9.4	530.1	✓
80' S.		14.1	525.4	✓
5+61				
60' N.		12.4	527.1	✓
50' N.		10.0	529.5	✓
40' N.		12.5	527.0	✓
TP	0.08	13.04	526.42	✓
30' N.		1.6	524.9	✓
25' N.		2.4	524.1	✓
20' N.		3.2	523.3	✓
15' N.		2.3	524.2	✓
10' N.		1.2	525.3	✓
5' N.		2.4	524.1	✓
Ø		4.5	522.0	✓
5' S.		6.5	520.0	✓
10' S.		5.5	521.0	✓
20' S.		1.9	524.6	✓
28' S.		3.3	523.2	✓
5+71				
70' S.		3.3	523.2	✓

Boulder # 105  
5' X 2' X 2.5'

Boulder # 106  
3' X 3.5' X 2.5'

Sta.	+	∓	-	Elev.	
6A' S.		526. <sup>54</sup> <del>50</del>	0.9	525.6	✓
60' S.			2.7	523.8	✓
50' S.			7.9	518.6	✓
40' S.			6.7	519.8	✓
36' S.			6.3	520.2	✓
30' S.			8.7	517.8	✓
26' S.			11.0	515.5	✓
23' S.			8.7	517.8	✓
20' S.			8.7	517.8	✓
10' S.			9.9	516.6	✓
∅			10.1	516.4	✓
5' N.			9.5	517.0	✓
8' N.			4.5	522.0	✓
10' N.			4.7	521.8	✓
12' N.			5.4	521.1	✓
14' N.			11.3	515.2	✓
20' N.			10.9	515.6	✓
30' N.			9.0	517.5	✓
40' N.			7.7	518.8	✓
50' N.			9.6	516.9	✓
60' N.			8.8	517.7	✓
	5+81				
60' N.			13.3	513.2	✓
50' N.			12.1	514.4	✓
40' N.			11.5	515.0	✓

Boulder # 107  
3.5' x 3.5' x 5'

Sta.	+	$\pi$	-	Elev.	
34' N.		526.50 <sup>54</sup>	11.7	514.8	✓
30' N.			12.5	514.0	✓
20' N.			15.5	511.0	✓
10' N.			13.0	513.5	✓
☐			12.0	514.5	✓
10' S.			15.1	511.4	✓
20' S.			12.2	514.3	✓
25' S.			19.0	507.5	✓
30' S.			12.2	514.3	✓
40' S.			11.2	515.3	✓
50' S.			13.5	513.0	✓
56' S.			13.3	513.2	✓
60' S.			11.9	514.6	✓
70' S.			8.6	517.9	✓
80' S.			7.9	518.6	✓
90' S.			6.0	520.5	✓
100' S.			4.2	522.3	✓
110' S.			3.8	522.7	✓
114' S.			4.6	521.9	✓
120' S.			5.9	520.6	✓
130' S.			3.2	523.3	✓
138' S.			5.2	521.3	✓
140' S.			4.0	522.5	✓
150' S.			4.7	521.8	✓
160' S.			5.1	521.4	✓

Boulders # 109  
 6' x 2' x 2.5'  
 3.5' x 2' x 1.5' # 108

Boulder # 110  
 4' x 2' x 2.5'

Sta.	+	-	Elev.
			526.50 <sup>54</sup>
TP	+6.06	12.94	613.56 <sup>60</sup>
	5+91		
60' N.		12.2	507.5 ✓
50' N.		11.1	508.6 ✓
40' N.		10.3	509.4 ✓
30' N.		11.3	508.4 ✓
23' N.		14.9	504.8 ✓
20' N.		15.2	504.5 ✓
10' N.		14.3	505.4 ✓
E		14.5	505.2 ✓
10' S.		14.6	505.1 ✓
16' S.		14.2	505.5 ✓
20' S.		15.2	504.5 ✓
25' S.		12.2	507.5 ✓
30' S.		9.2	510.5 ✓
40' S.		8.7	511.0 ✓
50' S.		10.0	509.7 ✓
60' S.		9.4	510.3 ✓
70' S.		9.0	510.7 ✓
80' S.		8.9	510.8 ✓
90' S.		10.2	509.5 ✓
100' S.		5.6	514.1 ✓
110' S.		6.4	513.3 ✓
120' S.		7.0	512.7 ✓

Boulder # 111  
7' X 2.5' X 2'

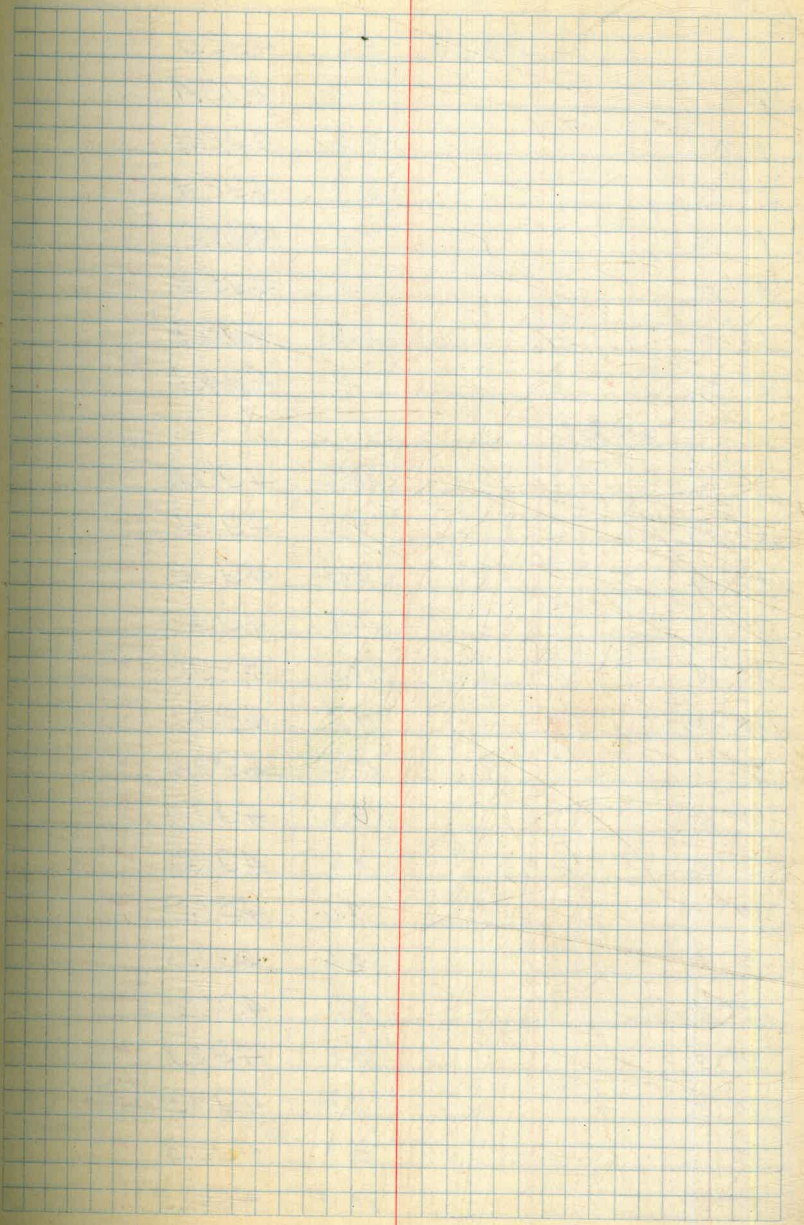
Sta.	+	$\pi$	-	Elev.	
130' S.		<del>519.68</del> <sup>66</sup>	6.5	513.2	✓
136'					
126' S.			3.6	516.1	✓
140' S.			4.9	514.8	✓
150' S.			6.2	513.5	✓
160' S.			4.8	514.9	✓
B.M. #9			12.60	<del>507.82</del> <sup>06</sup>	507.11
	6+01	519.71	(Corrected $\pi$ ) for B.M. #9		
170' S.			12.0	507.7	✓
160' S.			11.7	508.0	✓
151' S.			13.4	506.3	✓
150' S.			14.6	505.1	✓
143' S.			13.7	506.0	✓
140' S.			11.5	508.2	✓
130' S.			11.5	508.2	✓
120' S.			11.9	507.8	✓
TP	2.42	511.01	11.12	508.59	✓
110' S.			6.9	504.1	✓
106' S.			7.9	503.1	✓
100' S.			8.2	502.8	✓
99' S.			8.7	502.3	✓
98' S.			12.8	498.2	✓
96' S.			13.0	498.0	✓
94' S.			7.8	503.2	✓
90' S.			7.2	503.8	✓
80' S.			4.7	506.3	✓

Boulder # 112  
 4.5' x 5.5' x 2'  
 2' x 5' x 3' #113

Boulder # 114  
 6' x 3.5' x 2'

Sta.	+	π	-	Elev.	
70' S.		511.01 ✓	4.0	507.0	✓
68' S.			5.0	506.0	✓
60' S.			6.1	504.9	✓
54' S.			5.3	505.7	✓
50' S.			6.2	504.8	✓
40' S.			6.6	504.4	✓
30' S.			5.3	505.7	✓
20' S.			9.9	501.1	✓
17' S.			11.0	500.0	✓
16' S.			12.6	498.4	✓
14' S.			13.2	497.8	✓
13' S.			11.7	499.3	✓
10' S.			10.5	500.5	✓
⊕			11.2 <del>9.9</del>	499.8	✓
10' N.			13.8	497.2	✓
20' N.			13.9	497.1	✓
30' N.			12.5	498.5	✓
40' N.			11.0	500.0	✓
50' N.			10.9	500.1	✓
60' N.			11.6	499.4	✓
	6+11				
180' S.			11.9	499.1	✓
170' S.			13.5	497.5	✓
160' S.			14.1	496.9	✓
150' S.			14.3	496.7	✓

Sta.	+	-	Elev.
145' S.	511.01	<del>13.5</del> 13.5	495.5 ✓
140' S.		13.1	497.9 ✓
137' S.		10.3	500.7 ✓
130' S.		10.7	500.3 ✓
120' S.		10.7	500.3 ✓
110' S.		11.5	499.5 ✓
102' S.		9.4	501.6 ✓
100' S.		10.1	500.9 ✓
97' S.		10.9	500.1 ✓
94' S.		14.5	496.5 ✓
96' S.		14.5	496.5 ✓
92' S.		10.2	500.8 ✓
90' S.		9.6	501.4 ✓
80' S.		10.3	500.7 ✓
70' S.		12.7	498.3 ✓
TP	2.26	500.58	12.69 498.32 ✓
60' S.		3.3	497.3 ✓
57' S.		3.2	497.4 ✓
50' S.		4.9	495.7 ✓
40' S.		2.7	497.9 ✓
30' S.		4.8	495.8 ✓
20' S.		6.2	494.4 ✓
14' S.		8.7	491.9 ✓
12' S.		10.3	490.3 ✓
10' S.		10.3	490.3 ✓



Std.	+	X	-	Elev.
9' S.		500.58 ✓	8.6	492.0 ✓
☐			7.2	493.4 ✓
10' N.			7.8	492.8 ✓
20' N.			8.2	492.4 ✓
30' N.			7.0	493.6 ✓
40' N.			5.1	495.5 ✓
50' N.			5.3	495.3 ✓
60' N.			5.9	494.7 ✓
6+21				
60' N.			10.2	490.4 ✓
50' N.			9.2	491.4 ✓
40' N.			9.8	490.8 ✓
30' N.			10.6	490.0 ✓
20' N.			11.0	489.6 ✓
10' N.			11.5	489.1 ✓
☐			10.2	490.4 ✓
10' S.			8.2	492.4 ✓
15' S.			9.6	491.0 ✓
17' S.			19.6	481.0 ✓
19' S.			19.6	481.0 ✓
20' S.			9.0	491.6 ✓
30' S.			8.5	492.1 ✓
40' S.			7.3	493.3 ✓
47' S.			8.3	492.3 ✓
50' S.			10.4	490.2 ✓

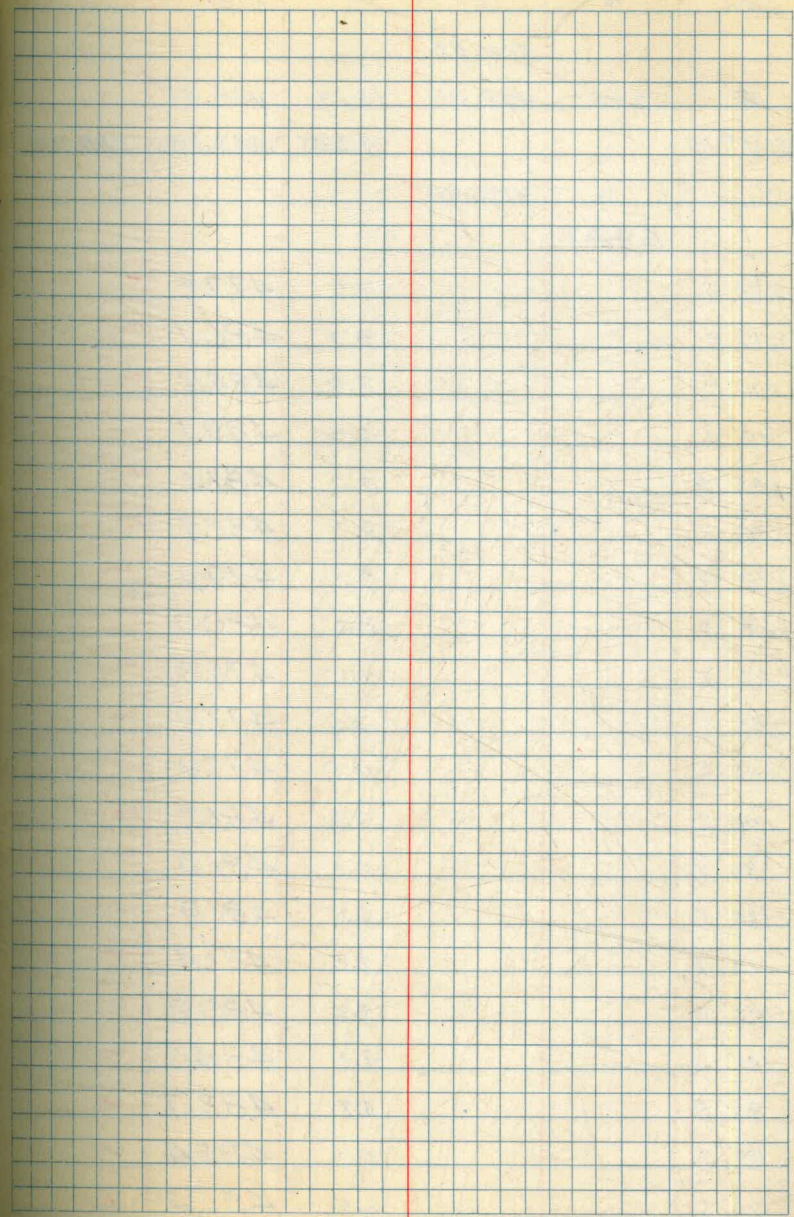
Boulder # 115  
 2.5' x 6' x 5'  
 6' 3' x 1' # 116



Sta.	+	X	-	Elev.	
54' S.		500.58	11.2	489.4	✓
60' S.			9.1	491.5	✓
65' S.			7.7	492.9	✓
70' S.			8.3	492.3	✓
73' S.			6.0	494.6	✓
80' S.			5.8	494.8	✓
87' S.			4.4	496.2	✓
88' S.			9.1	491.5	✓
90' S.			8.7	491.9	✓
94' S.			0.2	492.4	✓
95' S.			4.4	496.2	✓
100' S.			4.0	496.6	✓
110' S.			5.5	495.1	✓
120' S.			6.3	494.3	✓
130' S.			6.8	493.8	✓
140' S.			7.7	492.9	✓
147' S.			8.2	492.4	✓
148' S.			10.8	489.8	✓
150' S.			11.3	489.3	✓
157' S.			11.3	489.3	✓
160' S.			10.5	490.1	✓
170' S.			8.4	492.2	✓
180' S.			8.5	492.1	✓
	6+31				
190' S.			11.7 <del>12.2</del>	488.9	✓

Boulder #117  
5x3x2

Sta.	+	X	-	Elev.	
180' S.		500.58	10.7	489.9	✓
220' S.			17.0	483.6	✓
210' S.			15.7	484.9	✓
200' S.			14.8	485.8	✓
170' S.			14.2	486.4	✓
160' S.			16.9	483.7	✓
150' S.			16.9	483.7	✓
146' S.			14.5	486.1	✓
140' S.			13.0	487.6	✓
130' S.			12.5	488.1	✓
120' S.			12.5	488.1	✓
110' S.			12.5	488.1	✓
100' S.			11.0	489.6	✓
90' S.			10.5	490.1	✓
80' S.			11.2	489.4	✓
	6+26		(Partial Section)		
60' N.			14.5	486.1	✓
50' N.			11.3	489.3	✓
40' N.			11.9	488.7	✓
30' N.			14.6	486.0	✓
20' N.			18.9	481.7	✓
18' N.			20.2	480.4	✓
16' N.			17.8	482.8	✓
10' N.			15.4	485.2	✓
5' N.			13.4	487.2	✓
∅			13.1	487.5	✓



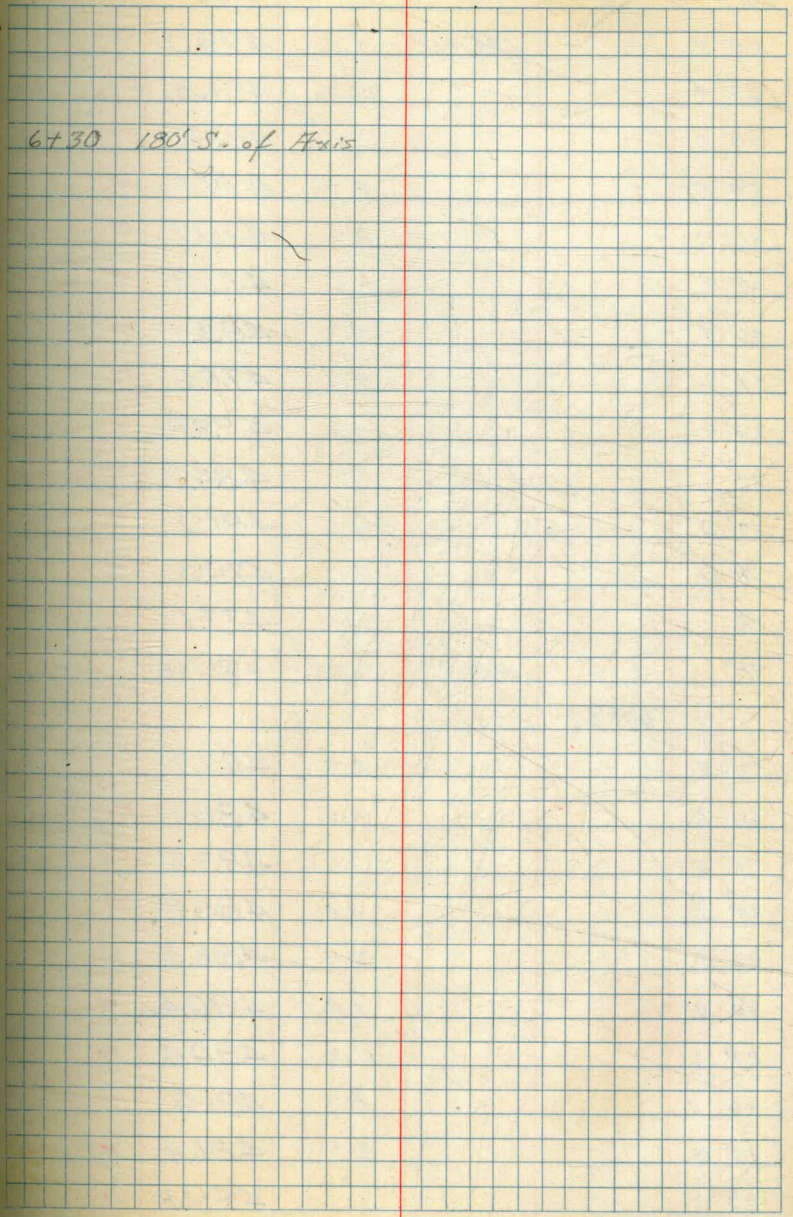
Sta.	+	X	-	Elev.
		500.58		
TP	0.04	488.49	12.13	488.45
B.M. #10			4.805	483.68
				483.64

Corrected X = 488.45

6+41

220' S.			11.2	477.2	✓
210' S.			8.3	480.1	✓
200' S.			3.9	484.5	✓
190' S.			0.3	488.1	✓
185' S.			0.0	488.4	✓
180' S.			5.7	482.7	✓
170' S.			8.5	479.9	✓
164' S.			8.4	480.0	✓
160' S.			10.1	478.3	✓
150' S.			10.6	477.8	✓
147' S.			10.5	477.9	✓
140' S.			7.2	481.2	✓
130' S.			6.5	481.9	✓
120' S.			6.5	481.9	✓
110' S.			7.0	481.4	✓
106' S.			7.2	480.2	✓
100' S.			4.4	484.0	✓
90' S.			4.7	483.7	✓
80' S.			5.0	483.4	✓
70' S.			6.5	481.9	✓

6+30 180' S. of Axis



Sta.	+	Σ	-	Elev.	
64' S.		488.45 ✓	9.4	479.0	✓
63' S.			26.6	461.8	✓
60' S.			26.6	461.8	✓
59' S.			8.7	479.7	✓
50' S.			8.7	479.7	✓
40' S.			6.5	481.9	✓
36' S.			5.3	483.1	✓
30' S.			9.8	478.6	✓
26' S.			4.6	483.8	✓
20' S.			4.2	484.2	✓
10' S.			6.5	481.9	✓
4' S.			9.4	479.0	✓
Σ			11.3	477.1	✓
TP	8.19	490.57 ✓	6.07	482.38	✓
	6+31				
70' S.			2.9	487.7	✓
60' S.			4.5	486.1	✓
55' S.			7.1	483.5	✓
50' S.			4.4	486.2	✓
40' S.			2.2	488.4	✓
30' S.			1.2	489.4	✓
27' S.			1.2	489.4	✓
26' S.			8.7	481.9	✓
24' S.			8.7	481.9	✓
23' S.			1.3	489.3	✓

Floor of Tunnel

Sta.	+	x	-	Elev.	
20' S.		490.57	0.5	490.1	✓
10' S.			4.0	486.6	✓
☒			6.1	484.5	✓
5' N.			8.2	482.4	✓
TP	1.22	483.60	8.19	482.38	✓
10' N.			3.9	479.7	✓
20' N.			8.2	475.4	✓
30' N.			6.8	476.8	✓
40' N.			4.7	478.9	✓
50' N.			8.3	475.3	✓
60' N.			6.3	477.3	✓
6+41					
60' N.			11.6	472.0	✓
50' N.			12.2	471.4	✓
40' N.			10.5	473.1	✓
30' N.			10.6	473.0	✓
22' N.			12.7	470.9	✓
20' N.			16.2	467.4	✓
18' N.			13.9	469.7	✓
10' N.			11.5	472.1	✓
6+51					
10' N.			9.4	474.2 <del>487.2</del>	✓
☒			8.9	474.7	✓
6' S.			9.1	474.5	✓
10' S.			5.5	478.1	✓

Sta.	+	∓	-	Elev.	
20' S.		483.60 ✓	5.4	478.2	✓
30' S.			6.5	477.1	✓
33' S.			14.4	469.2	✓
39' S.			14.5	469.1	✓
40' S.			10.9	472.7	✓
46' S.			8.2	475.4	✓
50' S.			9.3	474.3	✓
57' S.			12.5	471.1	✓
60' S.			21.8	461.8	✓
65' S.			21.8	461.8	✓
67' S.			12.7	470.9	✓
70' S.			12.0	471.6	✓
77' S.			9.3	474.3	✓
80' S.			10.9	472.7	✓
90' S.			8.7	474.9	✓
98' S.			5.0	478.6	✓
100' S.			5.5	478.1	✓
110' S.			8.3	475.3	✓
115' S.			11.3	472.3	✓
120' S.			8.8	474.8	✓
130' S.			8.8	474.8	✓
140' S.			9.6	474.0	✓
150' S.			9.8	473.8	✓
160' S.			8.1	475.5	✓
168' S.			7.2	476.4	✓

Boulder # 118  
3x2x4

Sta.	+	X	-	Elev.	
170' S.		483.60	9.6	474.0	✓
180' S.			10.0	473.6	✓
188' S.			8.1	475.5	✓
190' S.			5.1	478.5	✓
195' S.			4.4	479.2	✓
200' S.			6.5	477.1	✓
TP	3.07	474.15	12.52	471.08	✓
208' S.			0.2	473.9	✓
210' S.			2.3	471.8	✓
220' S.			3.7	470.4	✓
230' S.			4.2	469.9	✓
240' S.			4.5	469.6	✓
	6+61				
240' S.			8.0	466.1	✓
230' S.			6.1	468.0	✓
220' S.			5.4	468.7	✓
210' S.			4.8	469.3	✓
200' S.			<del>4.6</del> 5.0	469.1	✓
190' S.			3.1	471.0	✓
180' S.			4.3	469.8	✓
170' S.			5.3	468.8	✓
160' S.			3.6	470.5	✓
150' S.			4.0	470.1	✓
140' S.			6.4	467.7	✓
130' S.			7.5	466.6	✓

Boulder # 119  
2.5' X 4' X 5.5'

Boulder # 120  
7' X 4.5' X 2'  
8' X 2' X 1.5' # 121

Boulder # 122 5' X 3.5' X 2'  
# 123 5.5' X 4' X 2'

Sta.	+	x	-	Elev.	
120' S.		474.15 ✓	5.5	468.6	✓
110' S.			5.2	468.9	✓
100' S.			6.4	467.7	✓
90' S.			7.3	466.8	✓
80' S.			4.8	469.3	✓
72' S.			3.3	470.8	✓
70' S.			3.8	470.3	✓
63' S.			5.2	468.9	✓
61' S.			11.2	462.9	✓
60' S.			11.2	462.9	✓
58' S.			11.2	462.9	✓
54' S.			5.2	468.9	✓
50' S.			4.2	469.9	✓
46' S.			2.9	471.2	✓
40' S.			6.2	467.9	✓
30' S.			3.1	471.0	✓
25' S.			3.2	470.9	✓
20' S.			1.9	472.2	✓
10' S.			1.9	472.2	✓
☐			2.9	471.2	✓
	6+51				
11' N.			10.3	463.8	✓
20' N.			8.9	465.2	✓
30' N.			8.9	465.2	✓
40' N.			6.4	467.7	✓

Boulder # 124  
4.5' x 1.1' x 2'  
Boulder # 125  
6 x 3 x 2.5'

Boulders { 2 x 4 x 1.5 # 126  
2.5 x 2.5 x 1 # 127  
3 x 4.5 x 2.5 # 128  
2 x 4.5 x 2.5 # 129

Boulder # 130 3 x 5 x 1  
" # 131 3 x 4 x 1



Sta.	+	X	-	Elev.	
50' N.		474.15 ✓	6.9	467.2	✓
56' N.			7.0	467.1	✓
60' N.			10.5	463.6	✓
	6+61		<del>10.9</del>		
60' N.			10.9	463.2	✓
50' N.			11.0	463.1	✓
40' N.			10.9	463.2	✓
30' N.			10.9	463.2	✓
20' N.			11.1	463.0	✓
10' N.			11.1	463.0	✓
5' N.			11.4	462.7	✓
3' N.			3.5	470.6	✓
∅			2.9	471.2	✓
	6+77.5				
∅			11.2	462.9	✓
10' N.			11.1	463.0	✓
20' N.			11.0	463.1	✓
30' N.			11.0	463.1	✓
40' N.			10.8	463.3	✓
50' N.			10.8	463.3	✓
60' N.			10.7	463.4	✓
70' N.			10.7	463.4	✓
80' N.			10.6	463.5	✓
90' N.			10.5	463.6	✓
100' N.			10.4	463.7	✓

Boulder # 132 7'X3'X5'

Boulder # 133 4'X4'X5'

# 134 1.5'X2'X3'

Sta.	+	$\pi$	-	Elev.	
	6+67.5	474.15			
100' N.			10.6	463.5	✓
90' N.			10.6	463.5	✓
80' N.			10.7	463.4	✓
70' N.			10.7	463.4	✓
60' N.			10.8	463.3	✓
50' N.			10.8	463.3	✓
40' N.			11.0	463.1	✓
30' N.			10.9	463.2	✓
20' N.			10.9	463.2	✓
10' N.			11.1	463.0	✓
4			11.2	462.9	✓
2' S.			2.7	471.4	✓
10' S.			2.8	471.3	✓
14' S.			3.1	471.0	✓
20' S.			8.5	465.6	✓
30' S.			8.9	465.2	✓
34' S.			6.1	468.0	✓
40' S.			7.5	466.6	✓
50' S.			8.3	465.8	✓
55' S.			9.4	464.7	✓
57' S.			11.2	462.9	✓
60' S.			11.2	462.9	✓
61' S.			11.2	462.9	✓
62' S.			8.2	465.9	✓

Sta.	+	X	-	Elev.
70'S.		474.15 ✓	5.5	468.6 ✓
80'S.			8.2	465.9 ✓
90'S.			8.5	465.6 ✓
100'S.			9.0	465.1 ✓
110'S.			9.3	464.8 ✓
120'S.			9.7	464.4 ✓
130'S.			8.9	465.2 ✓
140'S.			8.5	465.6 ✓
150'S.			6.1	468.0 ✓
160'S.			6.6	467.5 ✓
170'S.			7.3	466.8 ✓
180'S.			6.0	468.1 ✓
190'S.			7.0	467.1 ✓
200'S.			7.1	467.0 ✓
210'S.			7.5	466.6 ✓
220'S.			7.6	466.5 ✓
230'S.			8.0	466.1 ✓
236'S.			7.3	466.8 ✓
240'S.			8.3	465.8 ✓
250'S.			8.7	465.4 ✓
		6+77.5		
250'S.			10.0	464.1 ✓
240'S.			10.0	464.1 ✓
230'S.			9.5	464.6 ✓
220'S.			8.7	465.4 ✓

Boulder # 135 4' x 5' x 2.5'

Boulder # 136 3.5' x 5' x 2'

Sta.	T	$\pi$	-	Elev.	
210'S.		474.15 ✓	8.6	465.5	✓
200'S.			10.6	463.5	✓
190'S.			11.7	462.4	✓
180'S.			10.6	463.5	✓
170'S.			9.2	464.9	✓
160'S.			9.3	464.8	✓
153'S.			9.2	464.9	✓
150'S.			11.4	462.7	✓
140'S.			11.2	462.9	✓
130'S.			11.5	462.6	✓
120'S.			11.3	462.8	✓
110'S.			11.2	462.9	✓
100'S.			11.4	462.7	✓
90'S.			11.0	463.1	✓
80'S.			11.1	463.0	✓
70'S.			11.0	463.1	✓
60'S.			11.5	462.6	✓
50'S.			11.4	462.7	✓
40'S.			11.5	462.6	✓
30'S.			11.4	462.7	✓
26'S.			11.3	462.8	✓
25'S.			9.5	464.6	✓
20'S.			8.0	466.1	✓
13'S.			4.6	469.5	✓
10'S.			4.7	469.4	✓

Boulders	6+67	-155'S.	2x5x4	#137
"	6+75	-150'S.	3x3x1.5	#138
"	6+75	-150'S.	3x3.5x2.5	#139
"	6+82	-150'S.	6x1.5x1	#140

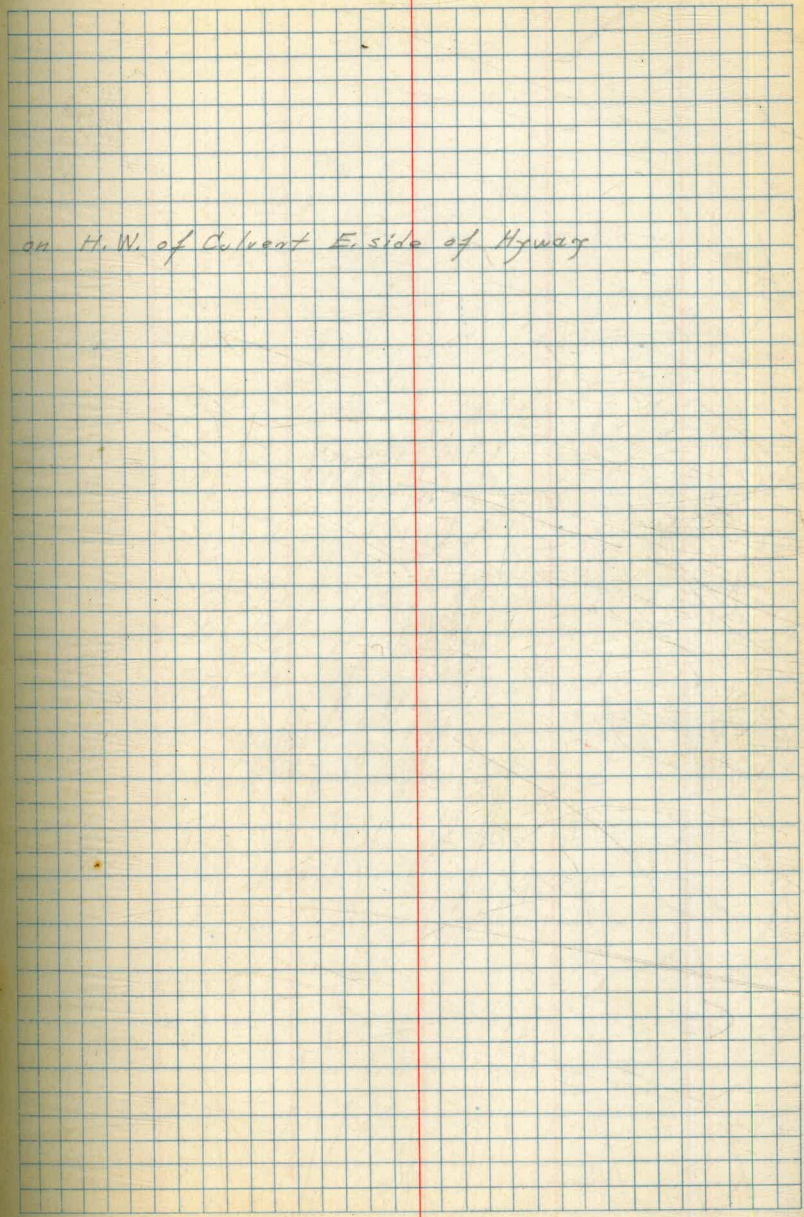
Boulder # 141  
3.5'x4.5'x1.5'

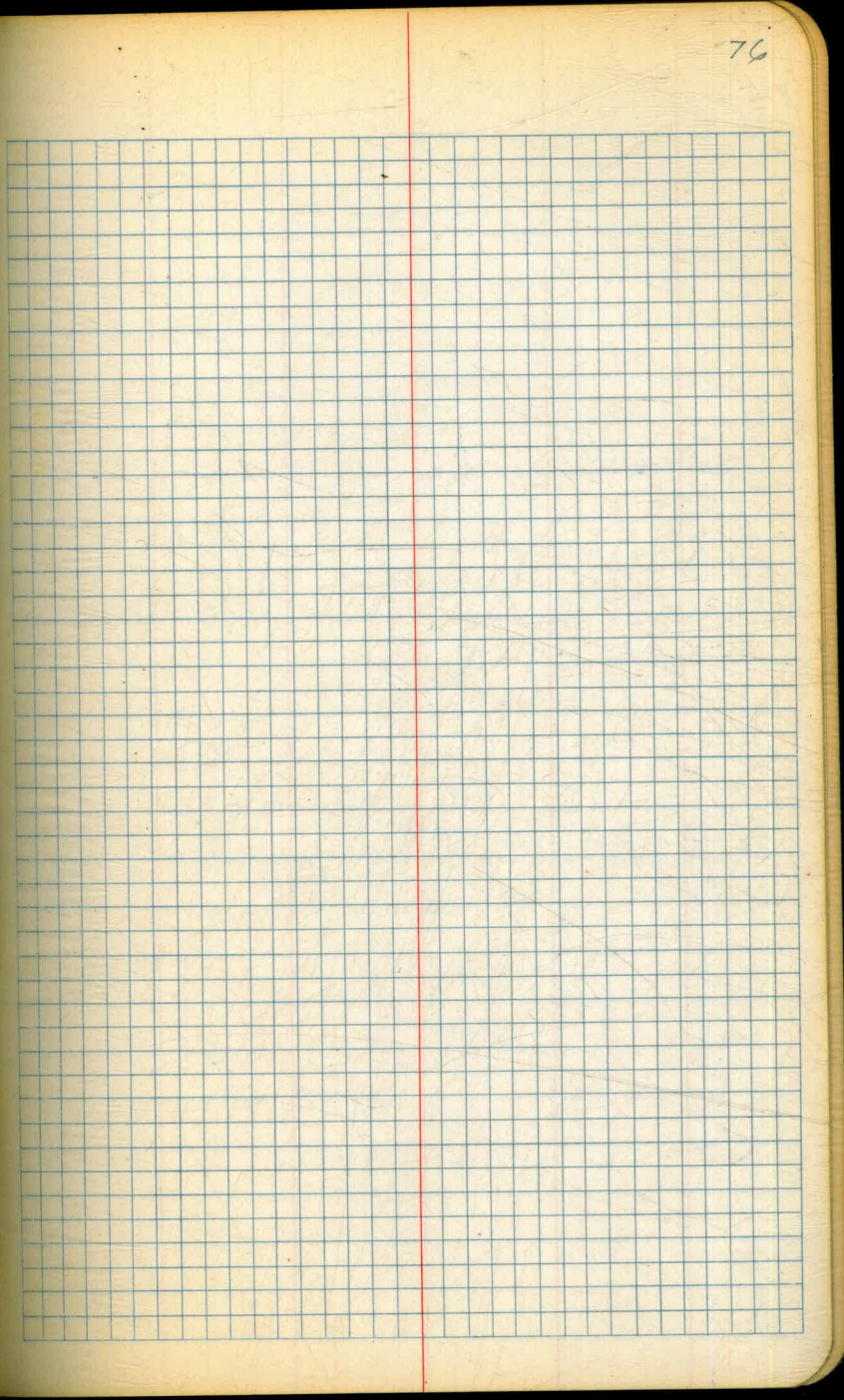
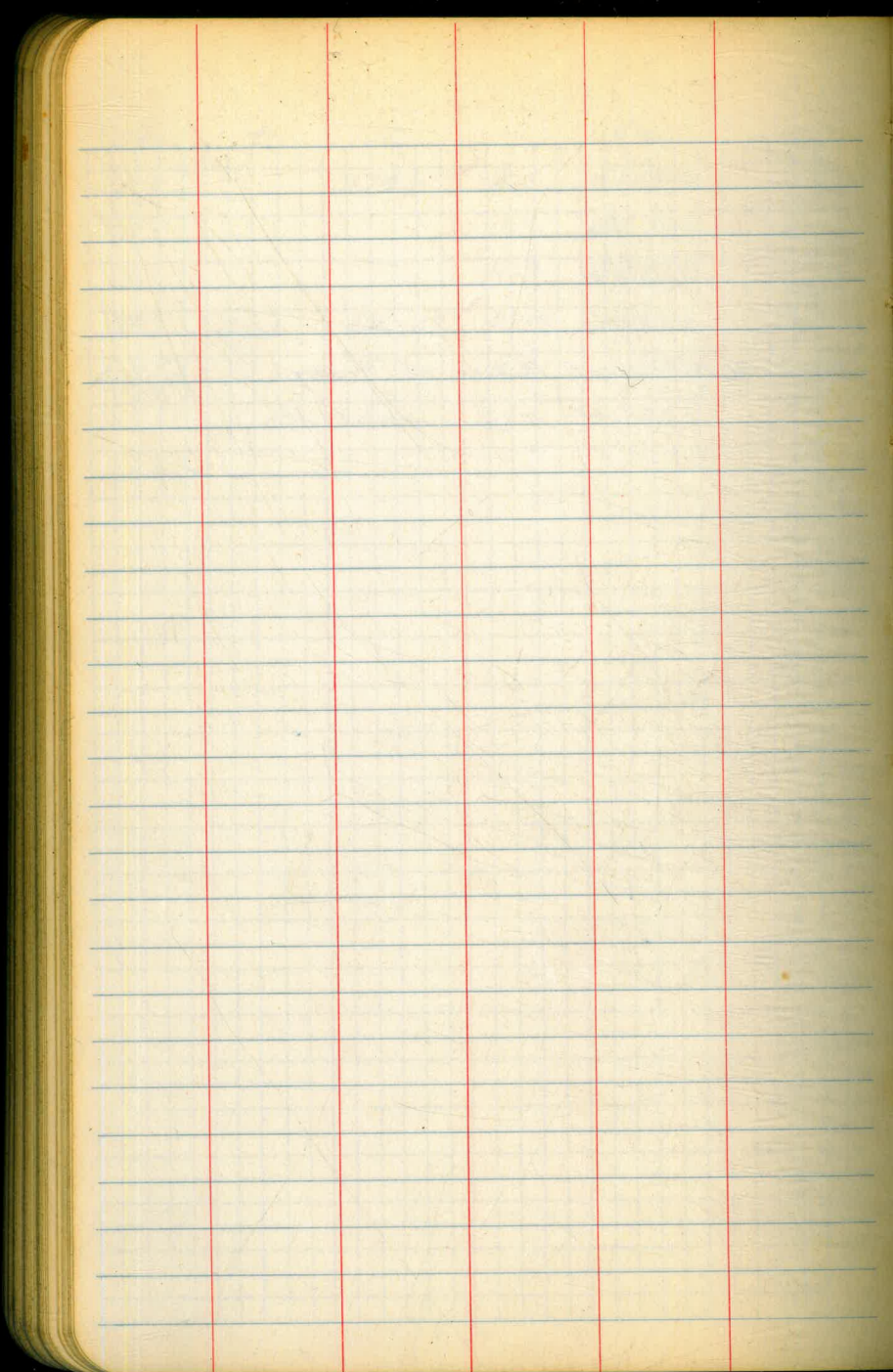
Boulder 6+80 -90'S. 3'x3'x3' #142

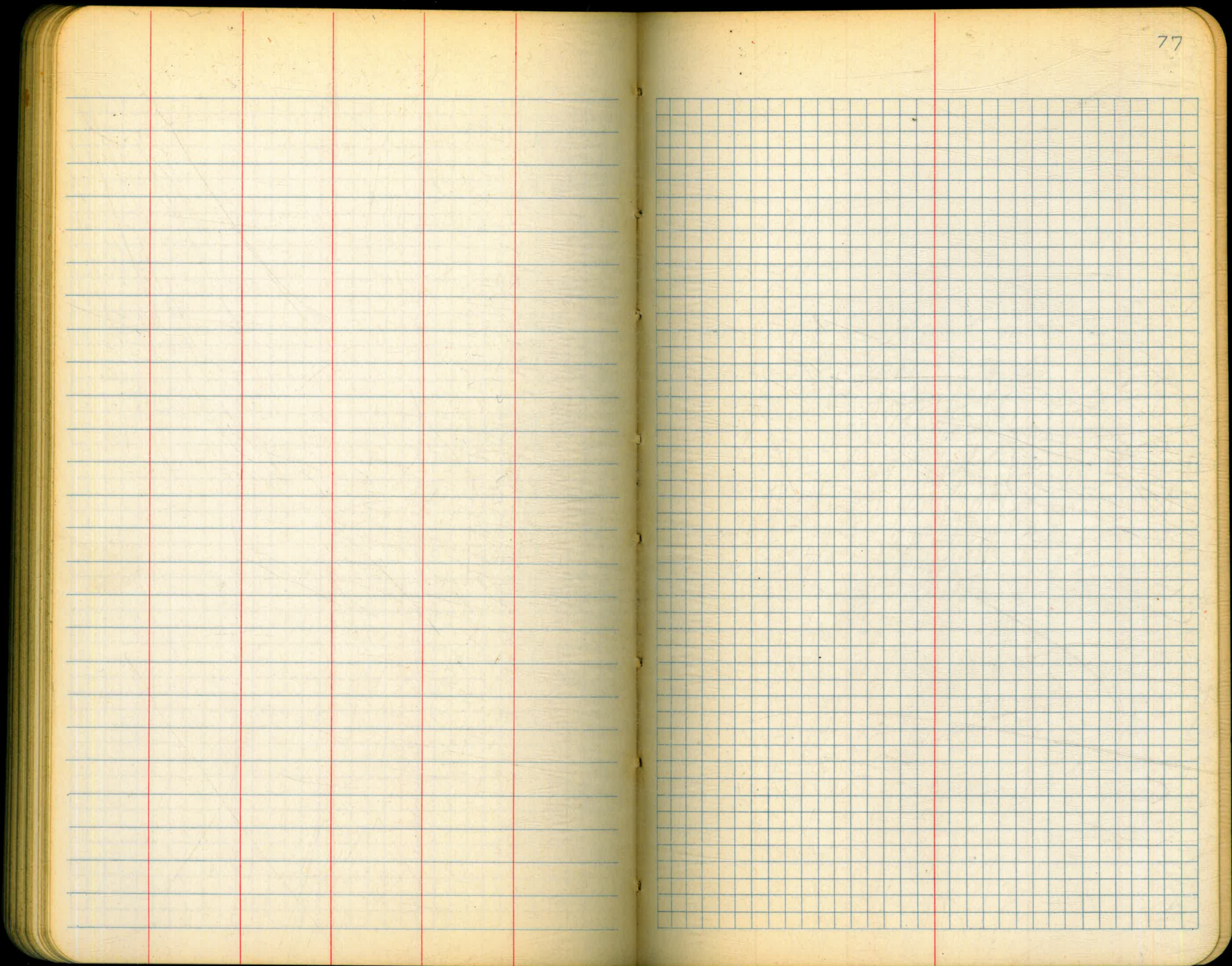
Sta.	+	x	-	Elev.
4'S.		474.15	4.5	469.6
2'S.			11.3	462.8
⊕			11.3	462.8
TP	8.61	480.43	2.33	471.82
B.M.#1			3.51	476.92 476.89

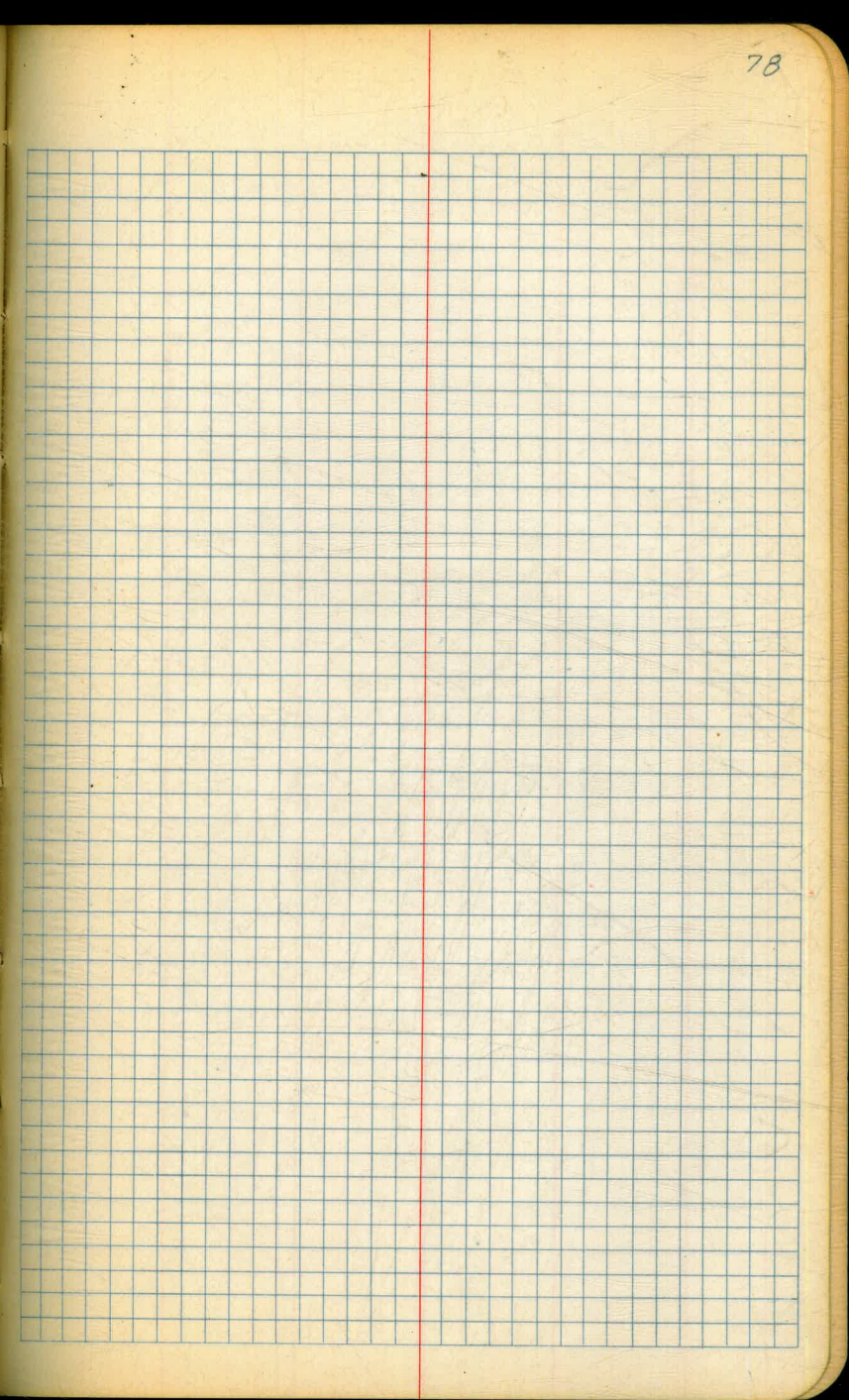
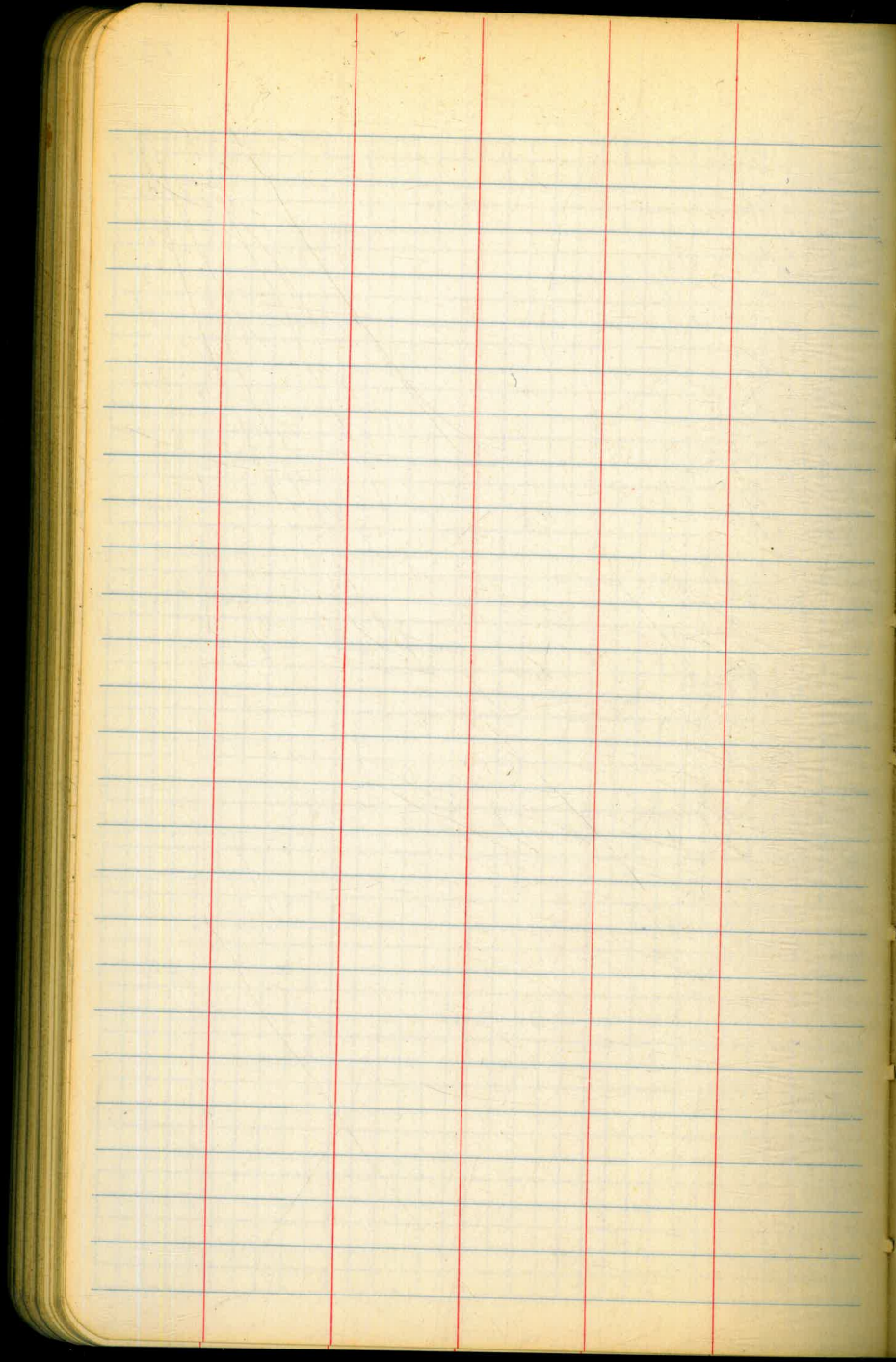
Finished Sept 24-1941

on H.W. of Culvert E. side of Highway

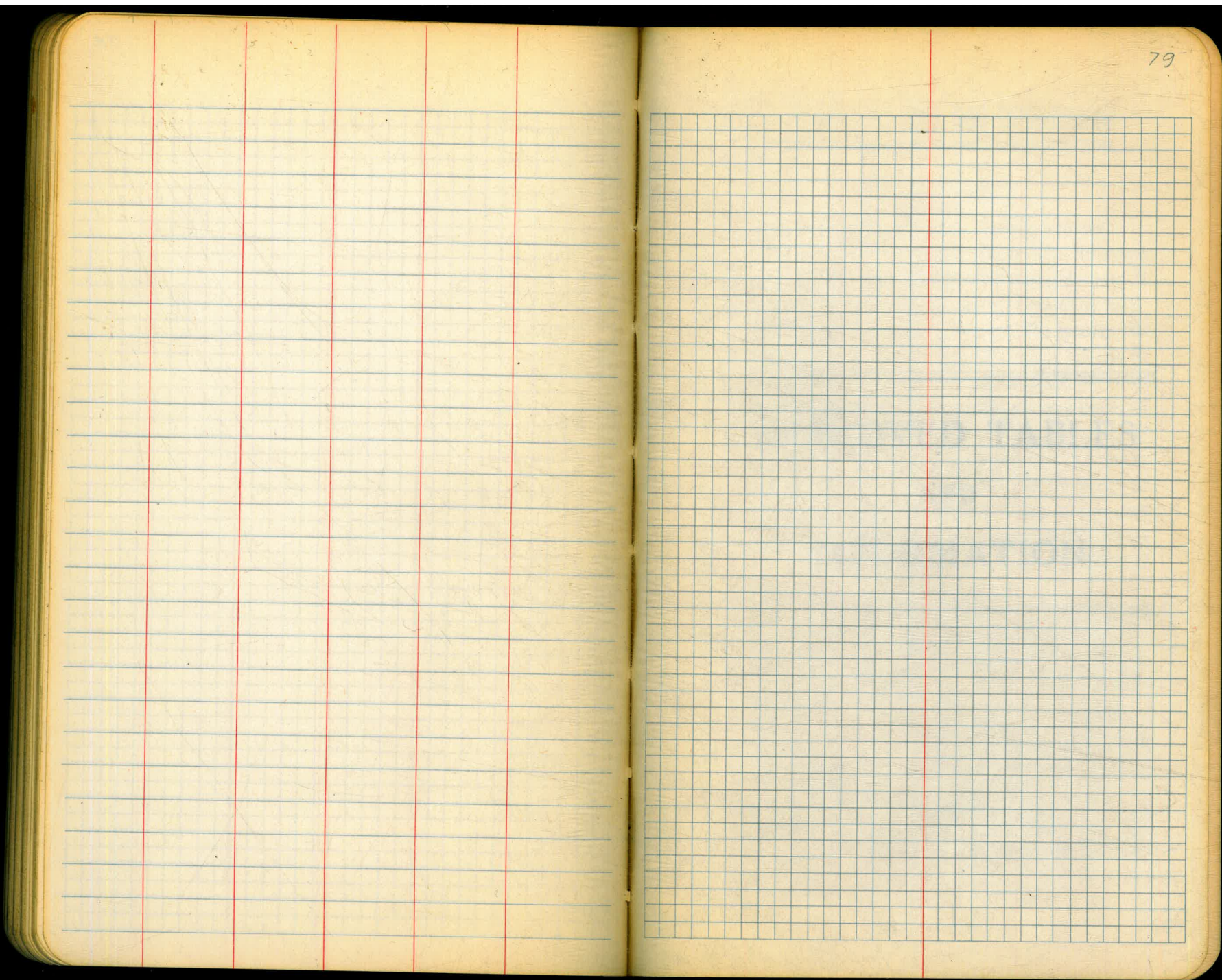












#6- 619.71

#7 566.05

#8 543.74

#9 507.11

#10 483.64

#1 476.89

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.  
 Roadway 16 feet wide. Side Slopes 1 on 1 1/2  
 For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.