

FRONT

#239

W 239

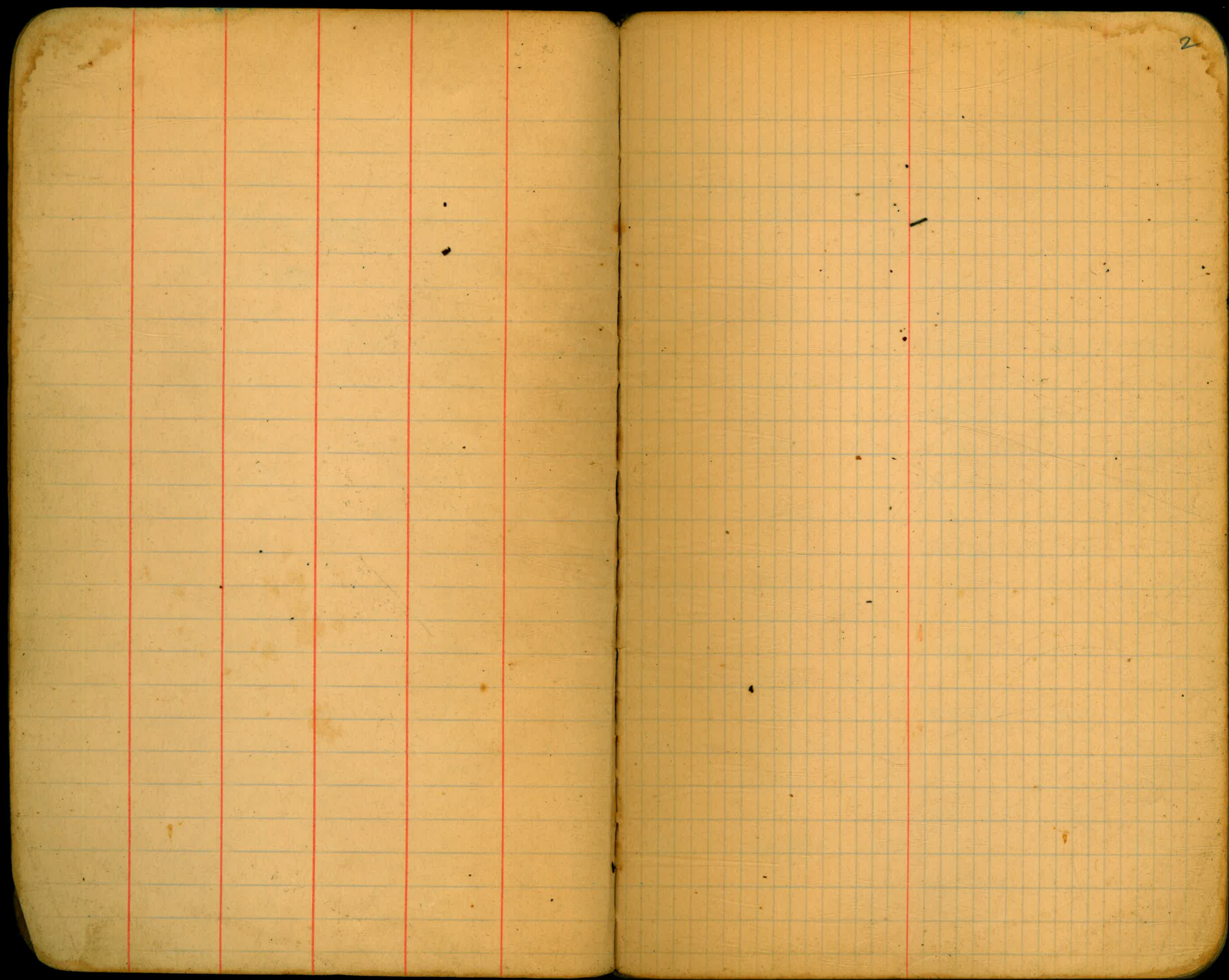
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Staking Buttrass points
and Cross-sections on Upper El Capitan

	H	I	Dam Site			
			714.9	BM. on R ²		
	4.10	719.0		grade 90		
Buttr #4		4.8	714.2	+45.8		
		0.16	718.84			
	11.81	730.65				
Buttr #3		3.14	727.51	+32.5		
	11.49	739.00				
Buttr #2		2.60	736.40	+23.6		
	1.390	750.30				
Buttr #1		0.00	750.30	+9.7		
	12.80	763.10				
		0.10	763.00			
	12.90	775.90				
Buttrass #0		5.1	770.8	-10.8		
			714.7			
	1.22	715.42				
		12.56	702.86			
	1.22	704.58				
Buttr #5		8.66	695.92	+64.1		
		12.84	691.74			
	1.86	693.60				
Buttr #6		11.60	682.00	+78.2		
	1.50	683.50				
	1.77	672.52	12.72	670.78		
#7		4.02	666.50	+91.5		

12-19-27

3

ROG
Elliott
Leekey & Chain
Bailey & Chain
Brooks & Rod
Claver & Rod

of Dam Axis with North Contour line

= Elev. Top Crest of Dam
upstream toe of slope = 1:1
+45.8

Note: Buttrass
Number 0, is
160 ft south of
iron pipe on top
of hill between
Dam and Spillway

Cross-section of Upper Dam Axis
El Capitan

Ⓢ

#7 668.50

0.91 663.41

T.P. 13.05 656.36

1.24 657.60

Butt. #8

4.92 652.68 +107.3 11.6 +114.0 Toe #8

T.P. 11.01 646.59

1.95 648.54

Butt. #9

4.60 643.94 +116.1

T.P. 12.78 635.76

1.47 637.23

#9 643.94

1.16 645.10

T.P. 12.14 632.96
633.96

1.97 634.93
635.93

Butt #10

4.53 630.40 +129.6
631.40 +128.6

T.P. 12.78 622.15
623.15

1.09 623.29
624.24

T.P. 13.04 610.20
611.20

4.50 612.70
615.70

T.P. 4.89 609.81
610.81

4.53 614.34
615.34

12-20-27

A

P.O.G.
Elliott K
Lecker & Chain
Bailey & Chain
Brooks & Rod
Clavert & Rod

El. 6 r 4.56
12.67 +135.4 Toe #9

609.5
5.2 150.5
+149.5 Toe #10

150.5
4.8 +149.5 Toe #11

Cross Section of Upper Dam Site
El Capitan

619.34
615.34
Butt #11 1.82 612.52 +147.5
613.52 +146.5
609.81
T.P. 610.81

613.02
3.21 614.82
Butt #12 4.34 608.68 +151.3
609.68 +150.3
T.P. 610.81

610.42
0.61 611.42
Butt #13 4.66 605.76 +154.24
606.76 +153.24
609.81
T.P. 610.81

613.06
3.25 614.06
Butt #14 7.8 605.3 +154.7
606.3 +153.7
606.85
T.P. 6.21 607.85

Butt #15 0.49 714.20
714.69
T.P. 0.83 713.86

Butt #18 11.89 702.80 +57.2
#18 702.80
0.36 703.16

T.P. 12.86 690.30
0.09 690.39
Butt #17 7.91 682.48 +77.5
T.P. 12.91 677.98

12-20-21
P.O.G.
Elliott X
Lecker 3 Charms
Bailey 3 Rod
Brooks 3 Rod
Clavel 3 Rod

4.3 +151.3
+150.3 Toe #12

4.3 153.9
+152.9 Toe #13

6.26 +153.2
+152.2 Toe #14

On iron pipe South of Buttress #18
700.9
13.8 +59.1 Toe #19

683.8
7.1 +76.7 Toe #17

Cross-section of Upper Dam site
 Ft Capitan

T.P.			677.98	
	0.00	677.48		
			12.54	664.94
	3.23	668.17		
Buttress #16			5.20	662.97 +97.0
T.P.			10.68	657.49
	5.26	662.75		
		#16	662.97	
	5.20	668.17		
T.P.			12.55	655.62
	0.80	656.42		
T.P.			12.65	643.77
	2.29	646.06		
T.P.			6.04	640.02
	3.00	643.02		
Buttress #15			4.40	638.62 +121.4
		T.P.	643.77	
	2.29	646.06		
T.P.			12.83	633.23
	3.06	636.29		
T.P.			11.02	625.27
	2.65	627.92		
	4.18	619.09	13.01	614.91
T.P. CHK			12.26	606.83
				606.85 Record

12-20-27
 P.O.G.
 Elliott
 Leckey
 Bailey & Charn
 Brooks & Rod
 Clavert

93 +106.5 Toe #16

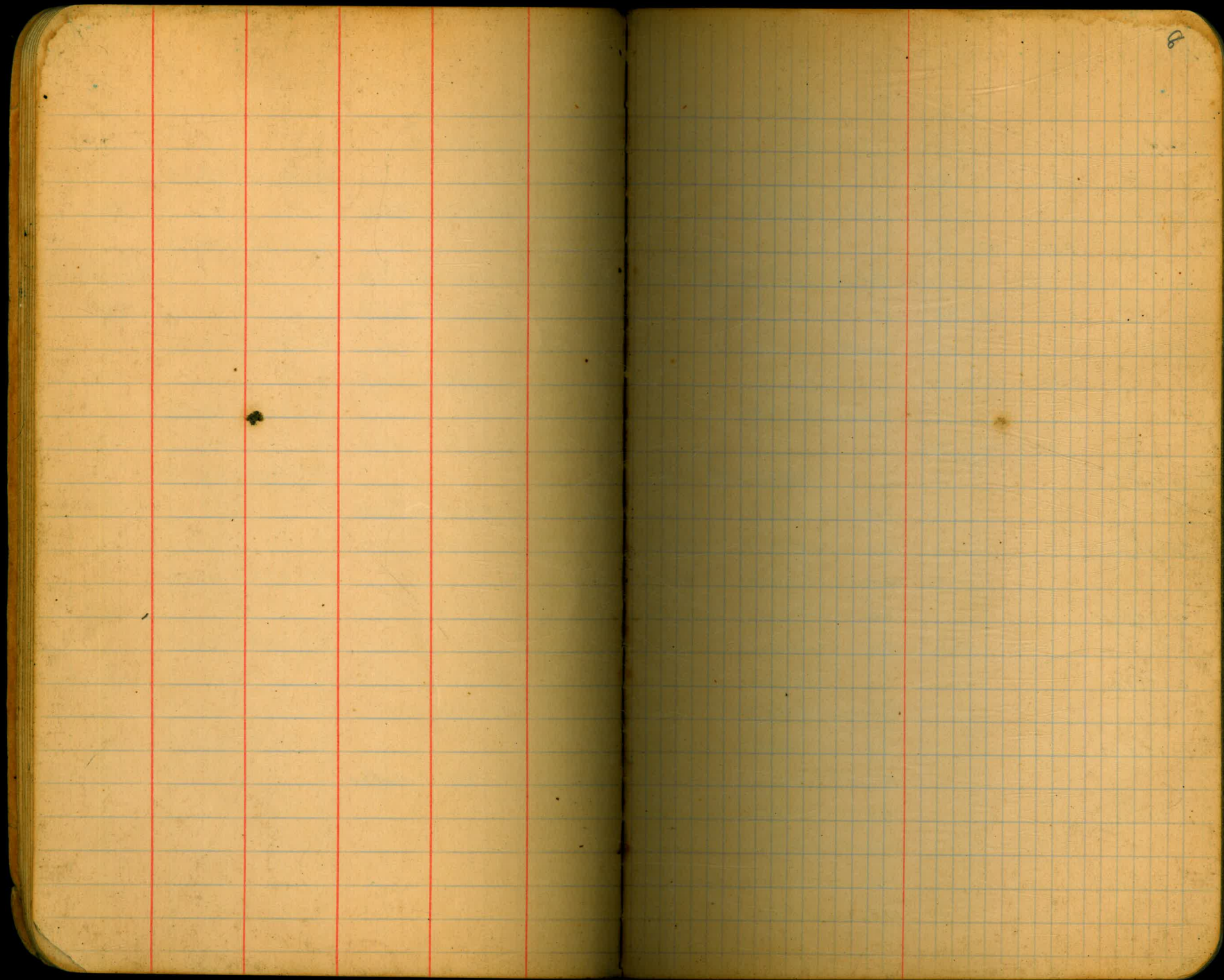
631.4
 49 +128.6 Toe #15

Cross Section of Upper Pansite
El Capitan

12-21-27

7

		#				
		18	702.80			
	11.88		714.68			
T.P.		0.88	713.80			
	12.87		726.67			
Buttress #19		4.71	721.96	+ 38.0	12.10	+ 39.0 Toe #19
T.P.		0.76	725.91			
	12.83		738.74			
T.P.		0.69	738.05			
	12.64		750.69			
T.P.		0.76	749.93			
	12.59		762.52			
Butt #21		3.60	758.92	+ 1.1	36	+ 1.1 Toe #21
T.P.		0.00	762.52			
	10.49		773.01			
T.P.		2.02	770.99			
	4.83		775.82			
Flume Invert		4.22	771.60			
		T.P.	738.05			
	6.25		744.30			
Butt #20		4.80	739.50	+ 20.5	738.8	+ 21.2 Toe #20
					5.5	



Levels San Vicente to Determine Elevations of Test Borings Sta. M 579+46.90

	T	H.I.	Elev	Marked
B.M.	7.86	484.69		476.83
T.P.	2.60	483.88	3.41	481.28
B.M.	9.26	483.88	9.26	474.62 474.73
T.P.	2.75	474.10	12.53	471.35
B.M.	11.32	482.36	3.06	471.04
0+00 = M 579+46.90			12.66	479.7 469.7
			18.7	463.7
0+15 West			12.0	470.4
			16.8	465.6
0+30 West			11.4	471.0
			14.2	468.2
0+45 West			2.5	479.9
			5.1	477.3
0+15 East			14.3	468.1
			18.7	463.7
30 East			14.8	467.6
			18.6	463.8
45 East			14.8	467.6
			19.8	462.6

12-21-27
 F.O.G. Rain
 Elliott # 9
 Lockett
 Burley
 Brooks
 Claver

Point on W Headwall East Side of pavement about 2' South of Dam Axis.

County B.M. Spike in Bottom of Oak Tree.

Cross on West end of wier marked
 B.M. # 1 El. = 100.00

Ground Surface

Limit of penetration of bit.

Ground Surface

Limit of penetration of bit

Ground Surface

Limit of penetration of bit

Ground Surface

Limit of penetration of bit.

Ground Surface

Limit of penetration

Gr. Surface

Limit of penetration

Ground Surface

Limit of penetration

San Vicente
Test Borings

10

482.36

60 East	14.9	467.5
	19.3	463.1
75 East	12.6	469.8
	19.0	463.4
90 East	9.3	473.1
Edge of Pavement	14.2	468.2
113 East	0.7	482.0

Ground Surface

Limit of penetration

Ground Surface

Limit of penetration

Ground Surface

Limit of penetration

Edge of pavement

Hole
⑥

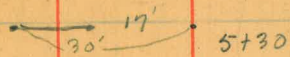
314'

4+29 = location of hole in
wash on E. side. By Trig.

3+91
4+16

Trenches and Holes - Location - West Side.

Some shown on this side to avoid crowding.
Sta. + distances shown at right angles to the Axis



also hole (O) 154' 5+15

140' 4+96

4+45 70' (O)

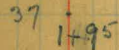
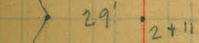
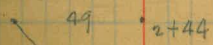
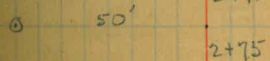
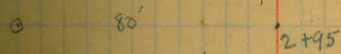
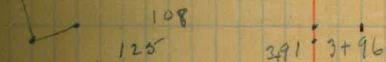
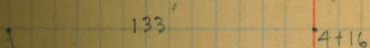
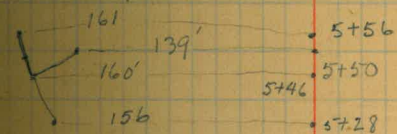
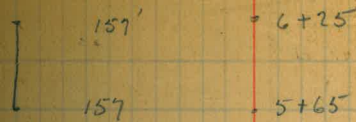
40' (O)
4+10

125' (O)
3+45

AXIS

5-26-38
Hill
Osborne
Isbell

12



axis

Cont. from
book #1541 Page 2^v

Williams
Hill
Osborne
Isbell
Zankey
6/6/38 worm

13

Station	Cont'd	Hor. Δ	Vert. Δ	H.I.	Elev.	Mag. B.
11 to 13	494.6 (495)	85° 05' L	-3° 26'	0.0 rod 6.0 H.I.	24.7	S. 69° 12' E (C. 20') side slope 13' in 50' from #13
11 to 12	248.2 (248)	79° 19' L	-3° 26'	20.3 rod 5.0 H.I.	-30.7	S. 82° 30' E (grade) side slope 6' in 16' from #12
10 to 11	104.6 (105.0)	10° 11' L	-3° 20' +0° 41'	3.8 rod 5.0 H.I.	-5.1	S. 40° 10' E (C. 15.2) (slope up ridge from #10 = 10%)
9 to 10	235.0 (236)	9° 43' R	0.0	5.0	00	S. 23° 30' W (C. 14.0) ✓
8 to 10	305.7 (306)	21° 12' R	-3° 26'	1.9		S. 17° 30' W
8 to 9	308.0 (308)	10° 50' L	-3° 26'	1.9	18.3	S. 17° 30' W ✓

(hooked Sta. 7 for 6.5)

Station	Cor. Dist	Hor. Δ	Vert. Δ	H.I.	Elev	Mag. B.
18 to 19	84.0 (83')	42°50'R	-0.0	5.6 rod H.I. 48	-0.8	(grade)
17 to 18	190.4 190'	7°22'R	-3°26'	13.9 rod H.I. 48	-20.5	N34°00'E (C. 0.8)
15 to 17	297.0 (297')	24°45'L	-3°26'	0.0 rod H.I. 49	(-12.9)	N26°30'E (C. 9.9)
16 to 16	134.5 (134')	541°00'W 24°45'L	-3°26'	9.9 rod 4.9 H.I.	+7.31	N26°30'E (grade)
14 to 15	150.5 150'	39°15'L	-3°26'	15.1 rod 4.9 H.I.	-19.4	N31°30'E (C. 5.0)
13 to 14	90.7 (90')	20°14'L	-3°26'	15.1 rod 6.0 H.I.	-15.5	N37°30'E (C. 15.0)

Station	Cor. dist.	Hor. Δ	Vert. Δ	H.I.	Elev.	Mag. B.	
24 to 25	359.7 (370')	7°16'L	-3°26'	5.0	-22.2	S33°E	(grade)
20 to 21	589.0 (590')	53°18'R	-3°26'	5.1	-35.4	S32°W	(grade) (from probable loc. pt.)
		N11°20'E					
20 to 23	282.7 (285')	49°26'R	-3°26'	5.1	-17.1		(grade)
		N23°15'W					
20 to 22	191.0 (190')	14°51'R	0.0	5.1	0		(grade)
		N56°03'W					
20 to 21	171.0 (170')	17°57'L	0.0	5.1	0		(grade) side slope 21°30' Azim 20
18 to 20	230.0 (228')	93°32'R	0.0	5.6 H.I. 48	-1.8	S53°E	(grade)

Sta	Cor. Dist	Hor. A	Vert. A	H.I.	Elev.	Mag. B
29 to 31	295.0 (295')	4807'R	-3°26'	4.9	-17.7	✓
29 to 30	130.6 (130')	5°19'R	-3°26'	4.9	-7.8	
26 to 29	457.5 (455')	13°22'R	-3°26'	5.0	-27.3	S 24° 10' E
		N 31° 11' W				
26 to 28	345.8 (346')	8°59'R	-3°26'	5.0	-20.7	S 27° 30' E ✓
		N 46° 05' W				
26 to 27	172.7 (172')	23°08'L	-3°26'	5.0	-10.3	✓
25 to 26	113.6 (113')	32°08'L	-3°26'	5.1	-6.8	S 30° 30' E

14° = slope of ridge bet #25 + 26
 Note 15' cut so left of #25

Sta.	Cor. dist.	Hor. Δ	Vert. Δ	H.L.	Diff Elev	Mag. B.
		N 68° 53' W				
36 to 37	172.4 (172)	23° 20' L	-3° 26'	5.0	-10.3	✓
35 to 36	95.7 (95)	22° 41' L	-3° 26'	1.9	-5.8	S 62° 30' E
34 to 35	156.5 (156)	16° 18' L	-3° 26'	5.0	-9.4	S 39° 30' E ✓
33 to 34	141.5 (141)	12° 41' L	-3° 26'	5.1	-8.5	S 23° 00' E
29 to 33	574.1 (575)	14° 23' R	-3° 26'	1.9	-34.5	S 9° 30' E -
29 to 32	421.6 (422)	11° 16' R	-3° 26'	1.9	-25.2	

Station	Condist.	Hor. A	Vert. A	H.I.	Elev.	Mag. B.	
73 to 41	✓ 115.6 (115')	32°47'L	-3°26'	5.0	-6.9	N 34°20' E ✓	grade at 41
42 to 43	✓ 87.7 (87')	17°56'L	-3°26'	4.9	-5.9	N. 65°30' E ✓	Make 6' cut. at 43
41 to 42	✓ 122.6 (122')	27°13'L	-3°26'	4.7	-7.3	N 61°30' E ✓	Make 3' cut at 42
40 to 41	✓ 97.7 (97')	4°22'L	-3°26'	5.0	-5.9	S 81°00' E - ✓	
36 to 40	✓ 672.8 (672')	4°00'L	-3°26'	5.0	+38.6	S 66°30' E	
36 to 39	✓ 377.7 (378')	N 50°49' W 5°16'L	-3°26'	5.0	-22.7		
36 to 38	✓ 283.0 (283')	N 52°46' W 7°13'L	-3°26'	5.0	-17.0		

Sta.	Cor. dist	Hor. Δ	Vert. Δ	H.I.	Elev.	Mag. B	
51 to 52	85.8 (85')	✓	18°49' L	-2°53'	5.0	-4.3	S44°30'E (C.3.2) 5%
50 to 51	194.5 (194')	✓	34°44' R	-2°53'	5.0	-9.7	S20°30'E (C.3.2) 5%
48 to 50	926.0 (926')	✓	107°38' R	-2°53'	1.7	-21.3	S60°E (C.3.2) 5%
			N53°22' W				
46 to 49	359.1 (359')	✓	98°39' R	-2°53'	4.9	-18.0	(grade) 5% grade
			N66°09' W				
45 to 48	296.3 (296')	✓	85°57' R	-2°53'	9.3	-14.8	(F.4.4) 6% grade
			N76°49' W				
45 to 47	197.5 (197')	✓	75°12' R	-2°53'	0.6 4.9	-9.9	(C.4.3) 6% grade
			N83°20' W				
45 to 46	85.8 (85')	✓	65°47' R	-2°53'	12.6 H1.43	-4.3	(F.4.7) 5% grade
44 to 45	122.6 (122')	✓	20°10' L	-3°26'	4.9	-7.3	N15°00'E

More 25' R for pt. on curve

Sta.	Cor. dist.	Hor. Δ	Vert. Δ	H.I.	Elev.	Mag. B
52 to 50	564.3 (569)	P.O.T.	-2°08'	5.0	-21.0	
57 to 59	286.4 (284)	P.O.T.	-2°45'	14.4	-13.8	
57 to 58	165.5 (165)	P.O.T.	-3°04'	5.0	-8.9	
56 to 57	336.0 (335)	30°13'R ✓	+0°48'	5.1	+4.7	S63°E "57 76' ext. pt. 0 slope 10%
55 to 56	655.8 (655)	P.O.T.	-1°02'	5.1	-11.8	(grade) "56-20'-0 pos. pole
52 to 55	1061.0 (1060)	P.O.T.	-0°24'	8.3	-7.4	(grade)
52 to 54	844.8 (844)	tangent P.O.T.	-0°58'	8.3	(-14.3)	(grade) -
52 to 53	480.9 (480)	60°12'L	-0°46'	8.3	-6.4	N63°E (grade) 1.34% gr.

Sta.	Cor. dist.	Hor. Δ	Vert. Δ	H.I.	Elev.	Mag. B.
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64 to 65	156.0 (155)	P.O.T.	-0°05'	5.0	-2.2	Elev. 426.0 from aneroid reading.
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Hwy Elev. 441.6

63 to 64	111.0 (110)	34°43' R	+0°05'	5.1	+1.6	334° E
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62 to 63	125.0 (124)	18°41' L	-0°29'	5.1	-3.6	569° E
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60 to 62	830.7 (830)	P.O.T.	-0°37'	5.0	-8.9	
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60 to 61	38.7 (40)	10°39' R	-13°11'	5.0	-8.9	519° E
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N 18° 55' W
El. 441.6 BC.

78⁶ Contour Line
San Vicente Basin

6/20/35

Hill
Osborne
Isbell
Leakey
Brookes

22

	11.54	881.64		770.0
			0.23	881.31
	12.31	793.62		
			0.13	793.99
	12.71	806.20		
B.M.			8.00	798.20
	8.00	803.59		798.59
T.P.			5.80	797.79
	4.76	802.55		
T.P.			13.00	789.55
	0.23	789.78		
T.P.			11.58	778.20
	6.71	784.91	4.91	780.00
			4.91	780.00
			4.91	780.00
T.P.	12.90 ² 6.90	792.04 ² 786.04	5.77	779.14
			6.04	780.00
T.P.			5.87	780.17
	8.72	788.89		
# 5			8.89	
T.P.			4.31	784.58
	6.86	791.44		
# 6			11.44	
# 7			11.44	

changed to 786

Parting of 770 contour, located by stadia.

Top of corner wing wall of culv. 12' left of M.I. 1.09. EL. 795.59

#0 at point of canyon + 780 EL.

#1 - on E side of canyon. 1st rocky point.

#2 - E. side - on rock face.

#3 - E. side

#4 - E. side point above int. of the 2 streams.

#5

Note add 6' to elev. of all B.M.'s except starting pt.

At head of draw

780 Contour (cont.)

23

sta.	+	H.I.	-	Elev.	
		791.44			
# 8			11.44	780.00	Half way out of draw - E. side.
# 9			11.44	780.00	On point of <u>ridge</u>
T.P.			10.44	781.00	
	5.43	786.43			
# 10			6.43	780.00	W. side San Vicente Valley.
T.P.			4.10	782.33	
	0.82	783.15			
# 11			3.15	780.00	W. side.
T.P.			0.72	782.43	
	7.80	790.23			
# 12			10.23	780.00	W. side
T.P.			12.43	777.80	
	9.23	787.03			
# 13			7.03	780.00	W. side
" 24			7.03	780.00	E. side opp. # 13
" 25			7.03	780.00	E. side - downstream from one above
T.P.			6.37	780.66	
# 14			7.03	780.00	W. Side.
# 23			7.03	780.00	E. Side. Bet. # 13 + # 14
T.P.	6.95	790.51	3.47	783.56	
# 15			10.51	780.00	W. Side in draw
# 16			10.51	780.00	W. Side in draw
# 22			10.51	780.00	E. Side opp. # 14

780 Contour (Cont.)

6-29-38
Hill
Isbell
Leakey
Brooks

24

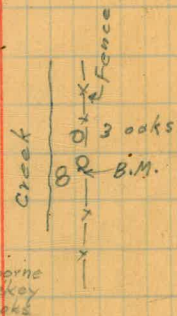
Sta.	+	x	-	Elev.
		790.51		
# 17			10.51	780.00
# 21 ✓			10.51	780.00
T.P. ✓	6.90	787.41	10.00	780.51
# 18			7.41	780.00
T.P.	2.87	777.20	13.08	774.33
T.P.	0.33	764.48	13.05	764.15'
T.P.	9.36	761.26	12.58	751.90 ✓
T.P.	8.50	767.46	2.30	758.96
T.P.	12.91	778.36	2.01	765.45
T.P. ✓	2.15	778.93	1.58	776.78 ✓
T.P.	8.31	785.27	1.97	776.96
# 20			5.27	780.00
T.P.	11.96	796.95	0.28	784.99
B.M.			4.58	792.37
T.P. - set 6-29-38	7.65	788.31		780.66
# 26			8.31	780.00
# 27			8.31	780.00
# 28			8.31	780.00
# 29			8.31	780.00
# 30			8.31	780.00
B.M. on rock			9.81	778.50
	8.90	787.40		

W. Side on nose

E. Side opp. # 17 at toe of Rock ledge

W. Side

Creek Bed

12' Above Creek Bed on W. Bank
1/2 mile N. of House on E. Bank

start 6-30-38 - clear-Hot

Osborne
Leakey
Brooks

E. side

on island

E. side

E. side on rock face

By # 29

780 Contour (Cont.)

25

Sta.	+	T	-	Elev.	
		787.40			
# 31			7.40	780.00	E. side - point of ridge
T.P.			9.44	777.96	
	11.22	789.18			
# 32			9.18	780.00	ridge
# 33			9.18	780.00	"
# 34			9.18	780.00	"
B.M.			5.54	783.64	on rock 30' N.W. # 34.
	10.93	794.57			start 7-1-38 clear-hot
# 35			14.57	780.00	w. side of draw.
# 36			14.57	780.00	head of draw.
# 37			14.57	780.00	ridge
# 38			14.57	780.00	Head of draw.
# 39			14.57	780.00	Rock face
T.P.			9.50	785.07	On rock - w. side of ridge
	17.13	796.20			
# 40			16.20	780.00	ridge
# 41			16.20	780.00	ridge
T.P.			13.03	783.17	
	4.90	788.07			
# 42			8.07	780.00	
# 43			8.07	780.00	
# 44			8.07	780.00	head of draw
# 45			8.07	780.00	
# 46			8.07	780.00	E. of trees.

Osborne
Isbell
Brooks

sta.	+	π	-	Elev.	
		788.07			
#47			8.07	780.00	on rock face - N. side creek
+48			8.07	780.00	N. side - bottom of large rock face
#49			8.07	780.00	N. side - on wooded ridge
B.M.			7.26	780.81	On rock By #52
	9.27	790.08			
#50			10.08	780.00	Head of creek bed,
#51			10.08	780.00	rocky point s. side
#52			10.08	780.00	
T.P.	7.26	788.07		780.81	
#53			8.07	780.00	s. side
T.P.			5.91	782.16	
	5.83	787.99			
#54			7.99	780.00	Top. of large rock face
T.P.			5.83	782.16	✓
	5.86	789.02			End 7-1:38
#55			8.02	780.00	start 7-7-38 - clear, hot
#56			8.02	780.00	N. edge of road.
T.P.			3.50	784.52	
	4.98	789.50			Osborne Isbell Brooks
#57			9.50	780.00	ridge
#58			9.50	780.00	in draw.
#59			9.50	780.00	ridge - marked with 12" Flaag. in thick brush
#60			9.50	780.00	

7.80 Contour (cont.)

27

sta.	+	π	-	Elev	
		789.50			
# 61			9.50	780.00	on open space
62			9.50	780.00	top of big rock face
T.P.			7.19	782.31	

B.M.	0.37	795.96		795.69	
			12.62	783.37	
	2.24	785.58			

Wing wall coker. Mi. 1.09

Continued in Book #168

M line Revision

Hill
Osborne
Isbell
Leckey
Brooks

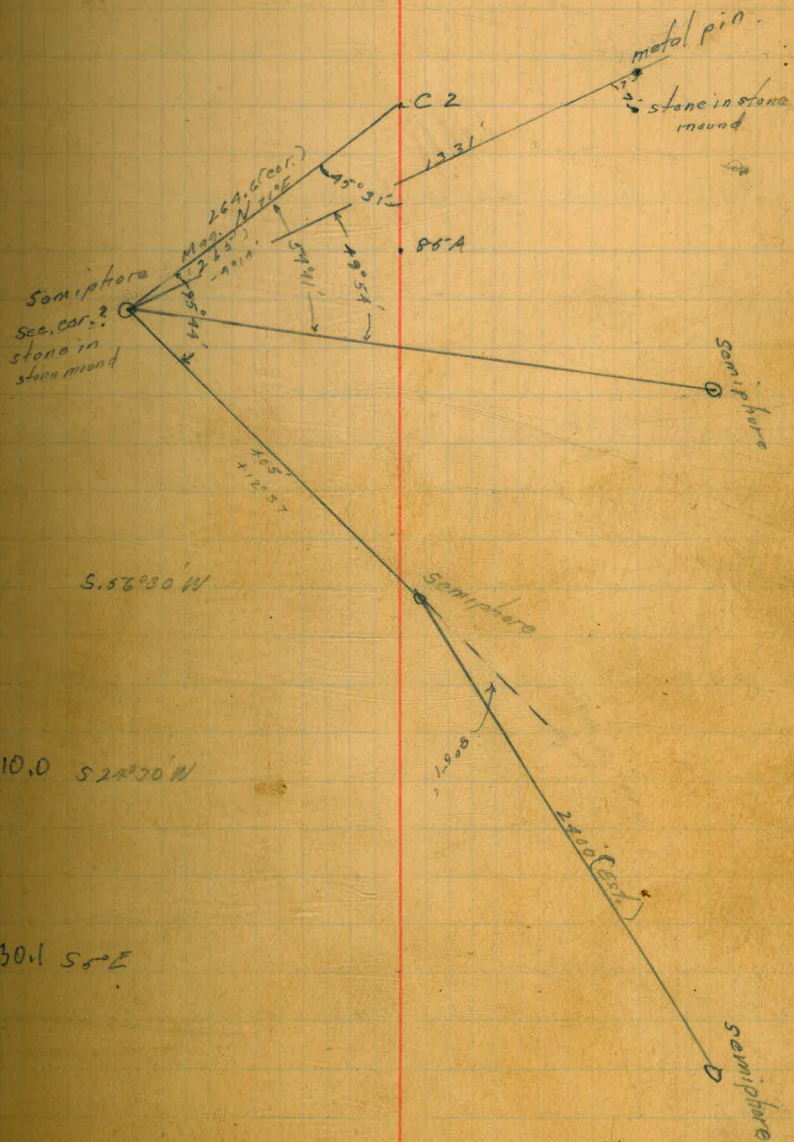
7/13/38

28

Sta. Cor. dist Hor. a Vert. a H. L. Rod Elev. Mag. B.

C2 to C3		62° 51'	91° 15' R						
88A to C2	68.6 (69')	57° 48'	28° 54' R	-8° 18'	5.1	5.1	-10.0	S 24° 30' W	
86 to 85A	285.3 (287')	32° 45' R		-6° 39'	5.1	8.1	-30.1	S 6° E	

84



Revision of M Line from
 Pt. # 55 to M 33

Hill
 Osborna
 Isbell
 Leekay
 Brooks
 7/14/38 hot 29

Sta.	Cor. Dist.	Hor. Δ	Vert. Δ	H.I.	Rod	Elev. Mag. B.			
51 to 50	94.7 (92')	13°00' 6°29' L	+3°27'	5.0	5.0	+ 5.7 N.25°W	+10% 90	+35% 95	75 side slopes 15° -35% (perp. to course 50-46) 150
51 to 51	434.5 (435')	P.O.T.	+3°27'	4.9	4.9	+ 26.1	0 60	+17% 100	51 side slopes 15°30' -33% 150
54 to 52	204.5 (205')	6°28' 3°13' R	-1°51'	4.9	4.9	- 17.5 N.20°W	+35% 125 (perp. to tang)	0 25	52 bot. of draw -6% -8% 125 100
54 to 53	454.5 (455')	30°08' L	+3°27'	4.9	4.9	+ 27.3	7.6% 75'	+10% 75'	53 bot. of draw 54 side slopes 12° -25% 150
55 to 54	172.5 (172')	35°30' 17°43' L	+3°27'	5.1	5.1	+10.4 N.23°W			55



Sta	Cor. dist.	Hor. Δ	Vert. Δ	H.I.	Rod	Elev.	Mag. B.
47 to 45	457.6 (466')	32°28' 16°14' R	+8°16'	5.0	5.0	+66.5	N13°30' E sideslope R. ^{pt. 45} sideslope R. ^{+18%} ^{+40'} ^{-2%} ^{+100 for 125 then} ^{+27%}
45 to 46	Faced 235		on Tan -18.70	between 45 to 47			
47 to 46	86.7 (86')	50°38' 25°19' R	+3.27	4.9	4.9	+5.0	N22° E ^{pt. 46} ^{+44%} ¹⁵⁰ ^{-12.70} ³⁵ ^{+34%} ⁸⁰
50 to 47	364.8 (365')	P.O.T.	+3.27'	5.0	5.0	+21.9	North ^{-43%} ⁷⁵ ^{+35%} ⁷⁵ ^{side slope 27° (perpetual} ^{course 17.16)} ¹²⁵ ¹⁷⁹⁰ ¹⁷⁷⁰ ¹⁷³⁰ ³⁵
50 to 48	162.4 (170')	49°37' 24°49' R	-13.00'	5.0	5.0	-37.2	North ^{+5%} ¹⁵⁰ ^{N73°W} ¹⁰⁰ ⁺⁴⁸ ^{-17%} ⁷⁵ ⁻¹⁶⁴⁰ ^{1005.8} ^(perpetual) ¹²⁵ ²⁵
50 to 49	140.5 (140')	20°32' L	+3.27	5.0	5.0	+8.4	sidesht ^{1335.3} ³³ ^{1298.1} ^{21.9} ^{153.2} ³⁷ ^{49 side slope 21°}

Sta.	Cor. dist.	Hor. Δ	Vert. Δ	H.I.	Rod	Elev	Mag. B.	
43 to 42	46.0 (3.0')	P.O.T.	-18°33'	5.1	5.1	-15.1		
41 to 43	98.9 (99')	P.O.T.	-6°19'	5.1	5.1	-10.8		T 43 side slopes 10° saddle 60° R.
45 to 44	215.6 (215')	76°57' 38°28' L	+2°25'	5.0	5.0	+9.1	N 20° W	T 44 side slopes 12°
45 to M34	72.6 (72')	69°22' 34°41' L	+4°10'	5.0	5.0	+5.2	N 20° W	



M' Line - Meridian Saddle south

7-1A 38 clear-Hot

32

sta.	Cor. dist.	Hor. Δ	Vert. Δ	H.I.	Rad.
------	------------	---------------	----------------	------	------

Hill
Osborne
Tebell
Leskey
Brooks

Elev. 1 Mag. B.

M-0
M'-0 to M'-1

5.2

Tie from S.W. cor. sec. 20 to
 1/4 cor. E & W. of Island

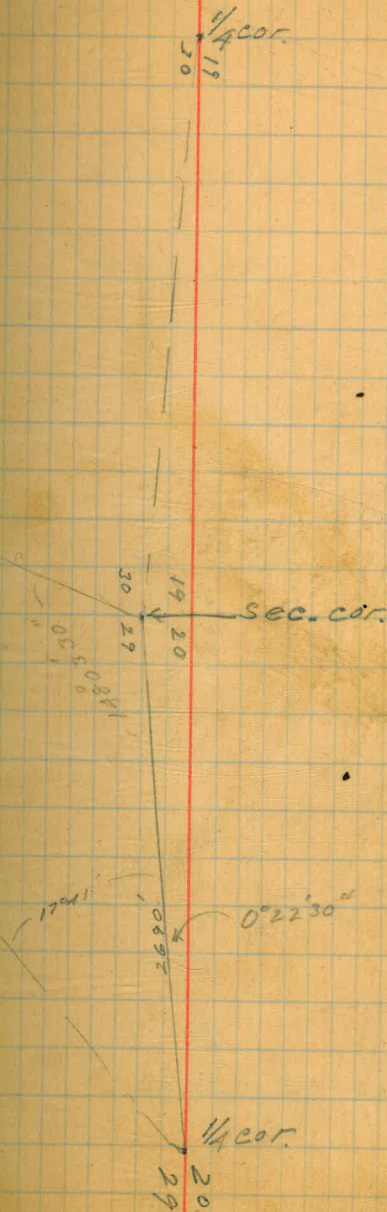
Semaphore on Island

Hull
 Isbell
 Leakey
 Princes

8/10/38
 Hot

33

	Dist	Hor Δ	V. Δ
1/4 cor. 20 29	1360 (1300')	0° 22' 30"	6° 07'
		Parallax on 1/4 cor. 19 30	

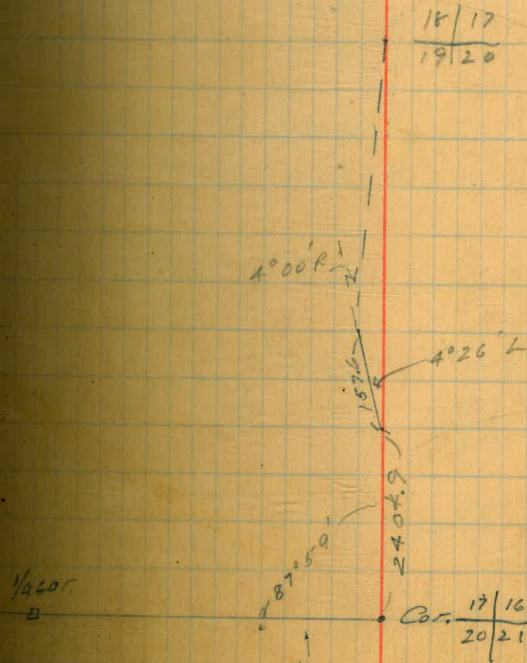


Tie from N.E. cor. sec 20 (Bradleys)
to 1/4 cor. 1/2 mile west

Cor. to sec. cor.	P.O.T. from cor.			
		4°00' R		
6 to cor. 4	157.6 (205')	4°26' L	-29°05'	
5 to 6	175.1 (223')	P.O.T.	-27°55'	
4 to 5	108.7 (132')	P.O.T.	-25°24'	
3 to 4	1567.4 (1620')	P.O.T.	-10°39'	
2 to 3	89.2 (70')	P.O.T.	-8°10'	
1 to 2	234.9 (273')	P.O.T.	+11°15'	
Sec 20/21	458.1 229.6 (260') (520')	87°59' R	+20°21'	

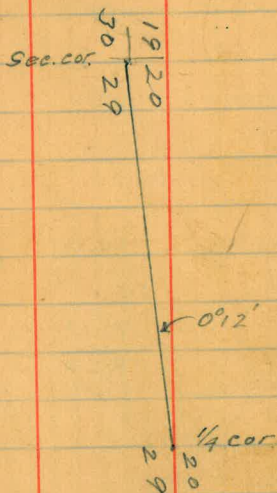
8/4/38

37



8/4/38

Tie from sec. cor. $\frac{20}{21}$ to $\frac{1}{4}$ cor.
 $\frac{29}{28}$ $\frac{1}{2}$ mile west



POT to $\frac{1}{4}$ cor. 733.8
 (800')

-16.80

to POT.

Sec. Cor.

$\frac{20}{21}$

$\frac{29}{28}$

2000.4
 (2000')

P.O.T.

+1.04

N 89° 07' 40" E

35

284
 .06
 1404

B.M. "49" El. 795.59 Top of
 sidewalk 12" L. 691+15.2

E end SanVic creek bridge 691+54.

B.M. "48" El. 790.09 Top sidewalk
 12" L. 683+25

E.C. curve Sta 692+10.9
 El. E.C. 802.65

696+54 = M.D.O.G

795.59
 630

691+15
 636+54
 54.61

39.1
 704
 156.1

2737
 2782.6
 80840
 802.65

782.9
 733.8

- = +2
+2 = -2

6.30 4.93

537.3

5.8

543.1

H.I.

1.4

541.7

T.P.

25.2

566.9

Stad. dist.	Angle	Dif. in elev.	H.I.	Total
400	-3° 02'	= 21.2	4.0	25.2

= 566.9 = H.I.

check

1141

1128

+3° 16'	= 64.8	0.0	64.8
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631.7 T.P.

578'	-3° 10'	= 31.9	+6.0	37.9
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669.6 = H.I.

992'	+2° 10'	37.5	0.0	37.5
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707.1 = T.P. - Top of rock.

578'	-2° 00'	= 20.2	0.0	20.2
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727.3 H.I.

777'	+3° 02'	= 41.0	0.0	41.0
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768.3 T.P.

Check back

828'	+3° 11'	= 46.6	4.1	42.5
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769.8 check on 770 contour pt

1067'	-1° 54'	= 35.0	+5.3	40.3
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687.0 T.P.

616'	+2° 28'	= 26.5	-3.1	23.4
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663.6 H.I.

Stadia line for Contour elev. on
Mussey grade Hwy.

Hill
Droovne
Iebell

5-26-38

Cloudy - Hot.

36

Dist.	Vert. A	El. diff.	H.I.	Elev.
5.30'	-3°47'	34.9	+2.7	626.07
1206'	+3°27'	73.1	-6.0	558.9 H.I.
247	-3°11'	13.7	+3.3	541.9 T.P.

check an pt. at begin
for stadia survey El. 541.7

See Back of Book

486.85
9.19

477.66

14.25

100
59

1060

1000
216

999.7
2

999.4

175.9
52.8
9

229.6

2648
2000
2500
2680
2600

502420
1200