

MARRON VALLEY
RESERVOIR

HARRIS & CROMWELL

CITY ENGR # 1063

FIELD BOOK

360

W319

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO.

SAN FRANCISCO.

ST. LOUIS.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS SECTIONING.

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

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

Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Tables see end of book.

319

1

Stadia Survey of Marron
Valley Reservoir
by Harris & Cromwell.

Description -	Page-
Preliminary Levels	2-3
Sketch of Dam site	4
Traverse 150' Contour	6-18
" Cottonwood Creek	20-23
" Tecate "	25-26
Ownerships - Marron Valley	27

Preliminary Levels Mason dam site

7/21/15

2

	11.00	12.00	0.00	
P.M.			5.8	5.20 = 511.74
10			1.0	10
0			1.55	9.45
	12.37	21.82		
			11.82	10.00
			1.82	20.0
0			0.77	21.05
	12.05	33.10		
			3.10	30.0
0			0.00	33.10
	12.46	45.56		
			5.56	40.0
0			0.11	45.45
	11.10	56.55		
			6.55	50.0
0			0.02	56.53
	12.00	68.53		
			8.53	60.0
0			0.00	68.53
	12.09	80.62		
			10.62	70.0
			0.62	80.0
0	9.78	90.40	0.00	80.02
P	12.67	102.96	0.11	90.29

Altonwood Creek bed
 on rock south side of creek both guard stake
 contours on south side
 0 = 506.54 Elev.

contour north side

" "

" "

on RK

contour " "

" "

on RK

contour " "

Sta.		102.96		
IP	12.48	115.20	0.15	102.81
IP	12.34	127.63	0.00	115.20
B.M.	13.00	140.63	0.00	127.63
IP	9.40	150.12	0.09	140.72
			0.12	150.00
	4.52	154.52		

			4.52	
B.M.	6.21	11.41		5.20
11+77			10.2	1.20
11+00			11.3	0.1
10+75			10.1	1.3
10+43 ⁺			4.4	7.0
10+00			2.1	9.3
9+00			0.0	11.4

0+00	150	Contour		
0+22.6	140	Contour	4+94 ^E	30
0+40 ^S	130	"	6+26 ^S	20
0+71 ^S	120	"	6+98 ^E	10
0+95 ^W	110	"	11+00	0.0
1+22 ^E	100			
1+51 ^E	90			
1+83 ^S	80			
2+22 ^S	70			
2+72 ^E	60			
3+30 ^E	50			
3+91 ^W	40			

Peg sta 0+55^E

11

Hub N end of Dam.

Rock on S. b. of Creek

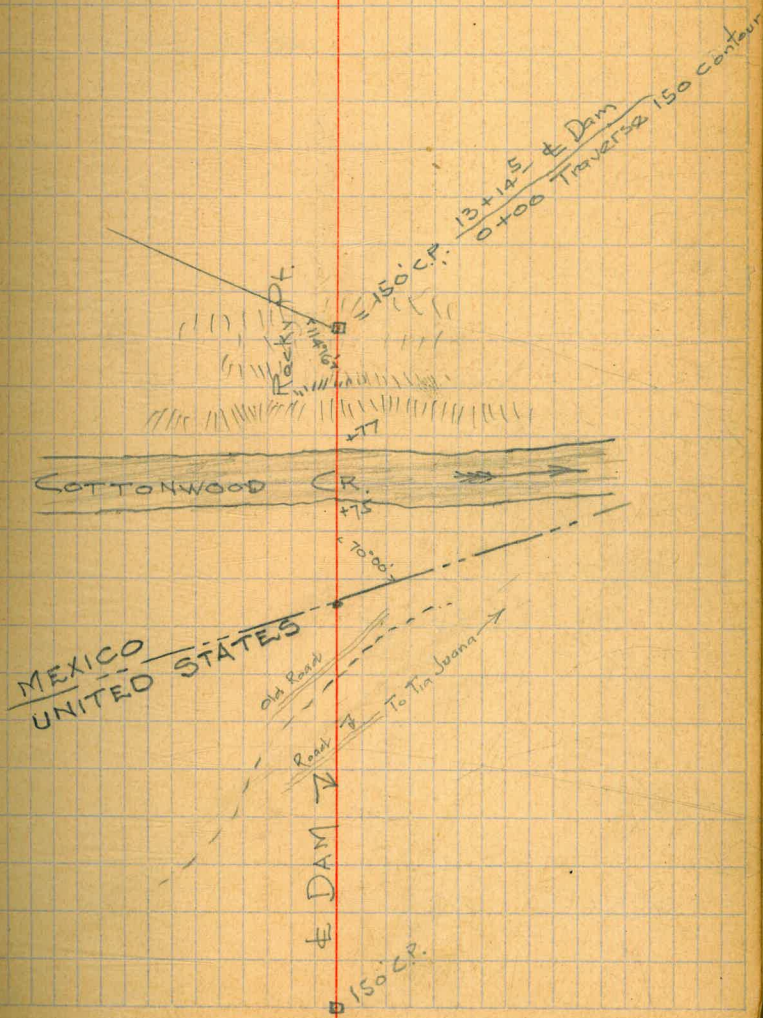
11.5	
22	
230	
250	

220	
25.3	
194.7	

Sketch of Damsite

7-24-14 G.C.

13+14.5	S. end Axis Dam. 150' C.P.
+38.1	
12+02.9	
11+77.0	Sb. P.O.T. Nail
+75	N.b. Cottonwood Cr.
10+43.4	P.O.T.
8	
8+98.1	P.O.T.
2+65.1	P.O.T. 3 ft. N. of line
7+27	Road H.W. Elev 7' Approx
6+63.4	P.O.T.
5+50	Road
4	
3	
2	
1	
0+00	N. end Axis Dam. 150' C.P.



Sta. Sta. Stadia S. end of $\frac{1}{2}$ DAM.

Sta.	Sta.	Rod	Vert \angle	H. dist.	Sta.
0					
"	1	12+02.5	160	+4°25'	159.5
"	2	12+38.1	220	+19°50'	194.7
"	3	12+82.0	287	+24°14'	238.6
"	4	13+14.5	343	+27°12'	271.1

G.C. 7-24-14

Sta 0 = 10 + 43.4 $\frac{1}{2}$ Dam

1 = Pt. on line

2 " " "

3 " " "

4 End $\frac{1}{2}$ Line Dam.

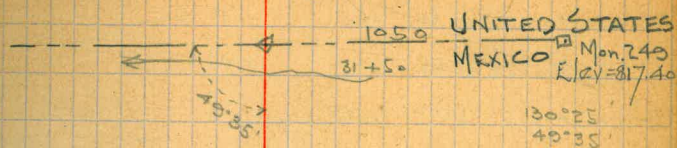
1043.4	8313
194.7	287
1238.1	6819.1
	16226
7902	258,583.1
343	
237.09	
316.12	
271.0724	
1043.4	
1314.47	

TRAVERSE MARRON RES.

Sta - Sta.	Angle	150 FT. CONTOUR Rod	Vert. & C.C.	Needle
34+97-Δ	23° 18' RT	330	0° 00'	N 22° 31' E N 21° E
33+79-Δ	35° 33' Lt ⑤?	118	0° 00'	N 0° 47' W N 1° 30' W
31+04-Δ	30° 21' Lt	275	0° 00'	N 34° 46' E N 34° E
26+21-Δ	5° 25' Lt	483	0° 00'	N 65° 07' E N 64° 30' E
Δ	0° 44' Rt	744	-0° 30'	N 70° 32' E N 70° E
18+77-○	3° 40' Rt	116	-2° 30'	
Δ	20° 40' Lt	179	+1° 30'	N 69° 48' E N 69° E
16+98-○	144° 40' Rt	150	0° 00'	
Δ	12° 44' Rt	355	0° 00'	S 89° 32' E N 89° E
13+43-○	24° 10' Rt	112		
Δ	12° 12' Lt	160	-2° 10'	N 77° 44' E N 76° E
○	161° 05' Lt	18	-22° 20'	
11+83-○	150° 00' Rt	145	-1° 25'	
Δ	9° 24' Rt	322	0° 00'	N 89° 36' E N 88° E
8+61-○	13° 40' Rt	57	-6° 30'	
Δ	52° 28' Lt	640	-1° 23'	N 80° 32' E N 79° 30' E
○	52° 58' Lt	523	-2° 25'	
○	52° 20' Lt	345	-3° 45'	
○	45° 35' Lt	185	-7° 00'	
2+21-○	0° 15' Lt	87	-11° 30'	
Δ	4° 20' Rt	90	-1° 22'	S 47° 00' E S 47° E
1+31-○	21° 05' Lt	73	-19° 50'	
0+00	65° 44' Lt	135 (131 ³)	+9° 30'	S 51° 20' E S 51° 20' E

Party { Geo. Cromwell Transit
Fred Bell Head Rod
Howard Sutliff Rear }

7-24-46



Note
Elevation of 150 Contour
is 556.54 ft above Sea level.

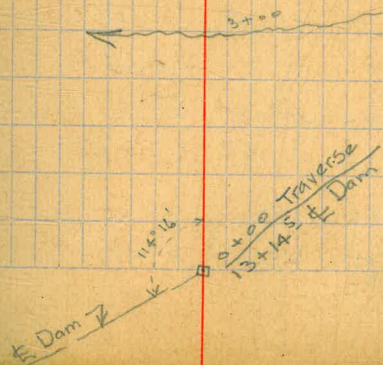
191	+16° 50'	175
322	+7° 05'	895
		1050

1250
322
888

← 16+00

- Note -
Legend ○ = 150 ft Contour Pt.
Δ = Inst. Pt.
Δ○ = " " " "
S.S. = Side Shot.

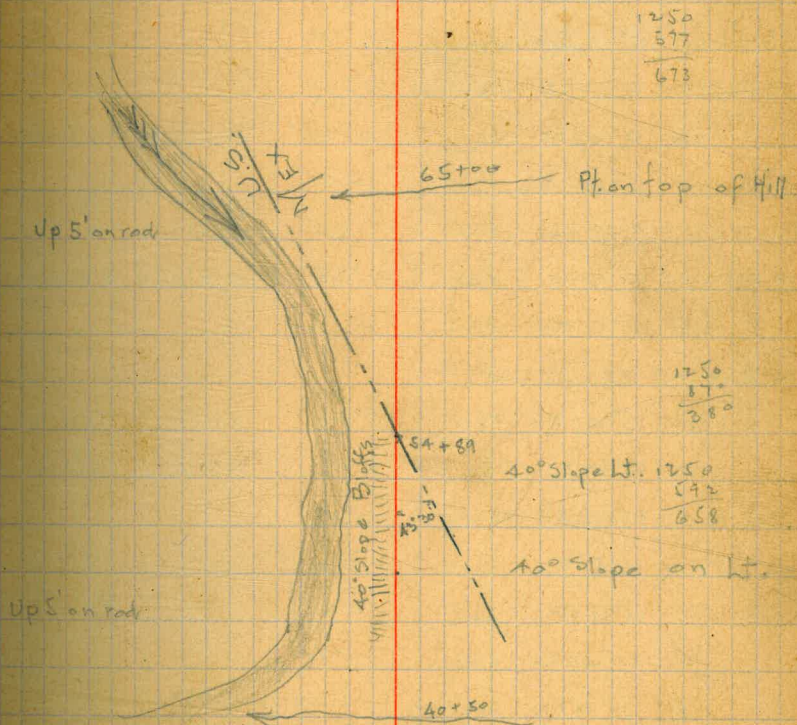
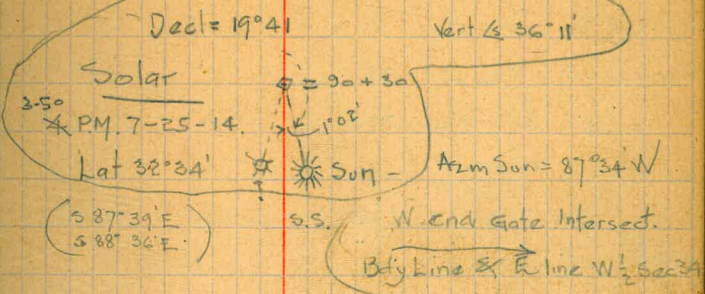
Up 5 ft on rod



65° 44'
51° 20'
S 14° 24' W

104+62						
95+69 Δ	46°27' Lt	914	0°00'	N52°38'E	N51°E	
Gate only S.S.	153°20' Lt		0°00'			
"	0	20°00' Lt	440	-1°10'		
"	0	16°00' Rt.	445	-1°05'		
"	0	38°30' Rt.	328	-1°35'		
95+68 - 0	95°30' Lt.	37	-15°15'			
90+30 - Δ	6°44' Rt.	538	+1°00'	S80°55'E	S83°E	
81+69 Δ	18°24' Rt.	861	-	S87°39'E	S89°E	
"	S.S.	71°16' Lt	?	-7°10'		
81+69 - 0	76°45' Lt.	29	-32°30'			
68+47 Δ	62°44' Lt.	1322	-1°55'	N73°57'E	N73°E	
"	S.S.	46°10' Lt	700	-5°30'		
"	0	113°45' Lt	210	-16°40'		
68+47 - 0	122°30' Rt.	673	-4°55'			
61+90 Δ	20°58' Rt.	657	+2°35'	S43°19'E	S44°E	
61+90 - 0	34°00' Lt	84	-16°15'			
Δ	26°55' Lt	135	+0°39'	S64°17'E	S65°30'E	
0	159°10' Lt	87	-17°40'			
60+55 - S.S.	98°45' Rt.	480	-3°25'			
55+17 - Δ	15°14' Rt.	538	+3°04'	S37°22'E	S38°E	
50+02 - Δ	16°39' Rt.	515	0°00'	S52°36'E	S53°30'E	
Δ	3°14' Lt.	310 (305)	-6°55'	S69°15'E	S70°E	
46+97 - 0	73° Lt.	78	-58°40'			
Δ	59°41' Rt.	380 (375)	+6°35'	S66°01'E	S67°30'E	
Pf near h.s.	95°42' Lt					
43+22 - 0	116°15' Rt.	658	0°00'			
38+97 - Δ	31°47' Rt.	495	0°00'	N54°18'E	N53°E	

7-25-14 G.C.



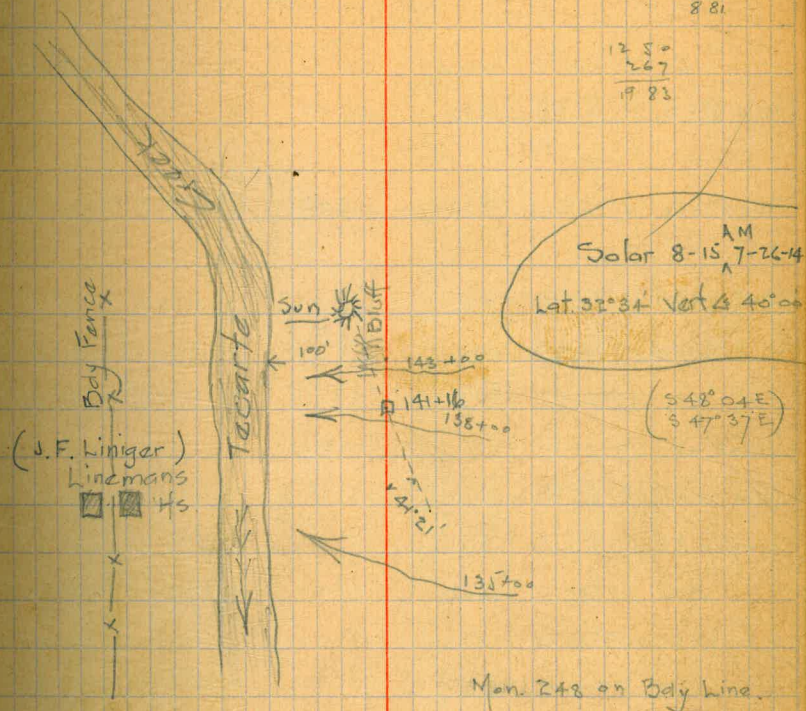
150' Contour

189+57 - 0	25°30' RT	87	-	-	-
	Δ 44°08' RT	72	+5°50'	S50°39'E	S50°E
188+85 - 0	23°15' LT	30	-17°25'		
180+04 - Δ	19°25' LT	881	+	N85°13'E	N85°E
	Δ 31°07' LT	1320	0°00'	S75°22'E	S76°E
166+84 - 0	18°40' LT 31°14'(S)	581	0°00'		S
	Δ 30°14' LT	983	0°00'	S44°15'E	S44°E
157+01 - 0	14°00' LT	405	0°00'		
"	Δ 29°46' RT	1150	0°00'	S14°05'E	S13°E
145+51 - 0	32°15' RT	460	0°00'		
141+16 - Δ	4°13' RT	435	0°00'	S43°51'E	S42°E
"	Δ 6°53' RT	460	0°00'	S48°04'E	S49°E
136+56 - 0	7°00' LT	20	0°00'		
132+58 - Δ	19°35' RT	398		S54°57'E	S54°E
128+98 - Δ	19°46' RT	360	-1°30'	S74°32'E	S76°E
	0 4°00' RT	660	0°00'		
121+18 S.S.	1°40' LT				
121+18 - Δ	5°00' RT	780	+0°45'	N85°42'E	N85°E
"	Δ 15°07' RT	786	0°00'	N80°42'E	N80°E
113+32 - 0	28°25' RT	450	0°00'		
"	Δ 12°57' RT	850	-0°20'	N65°35'E	N65°E
"	0 14°10' RT	680	-0°50'		
"	0 20°16' RT	480	-1°10'		
"	0 31°46' RT	300	-1°45'		
104+82 - 0	103°00' LT	34	-17°10'		

Saturday
7-25-14 G.C.

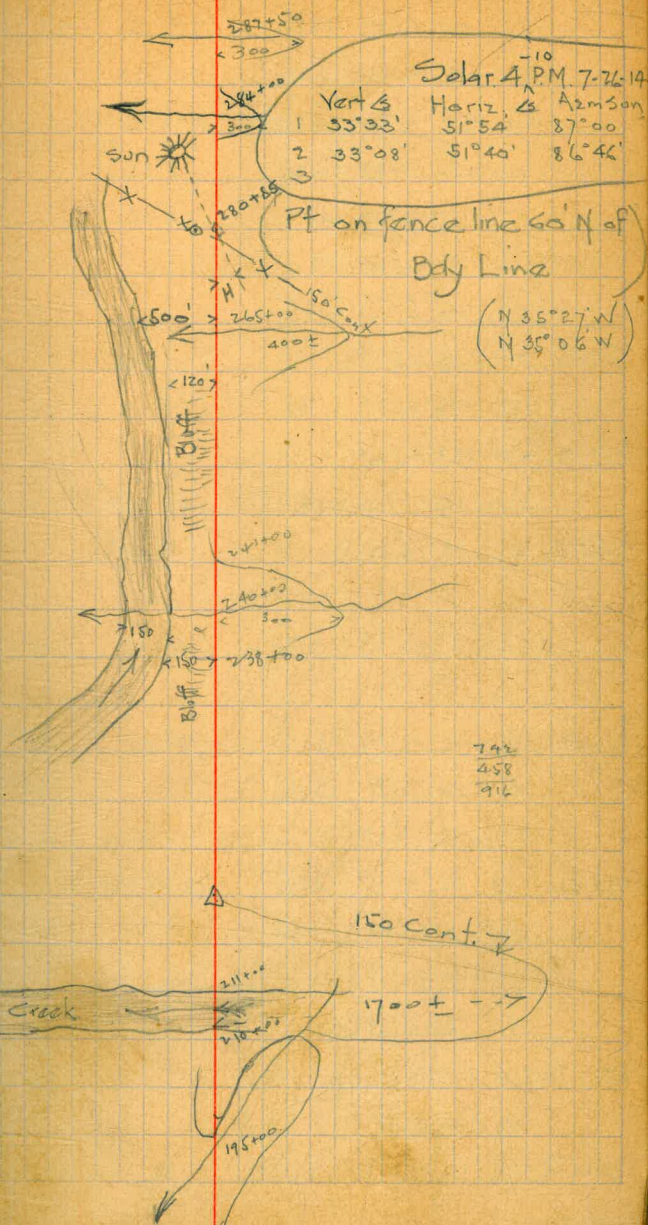
12.00
319
881

250
267
1983



150' Contour					
Δ 64°42' Lt.	393	-0°25'	N86°48'W	W	
285+79-0	170° Rt	10	-17°00'		
Δ 13°24' Rt.	494	+0°30'	N22°03'W	N23°W	
280+85-0	14°15' Rt.	210	0°00'		
272+47-Δ	0°49' Lt	838	0°00'	N35°27'W	N36°W
263+71-Δ	5°06' Rt.	876	0°00'	N34°38'W	N35°W
252+93-Δ	9°14' Rt.	1078	0°00'	N39°44'W	N41°W
Δ 17°16' Rt.	243	+5°15'	N48°58'W	N50°W	
250+50-0	94°00' Rt	17	+33°00'		
248+00-Δ	13°58' Rt.	250	-1°15'	N66°14'W	N69°W
238+84-Δ	42°43' Lt	916	0°00'	N80°12'W	N82°W
Δ 12°52' Lt	1212	0°00'	N37°29'W	N39°W	
226+72-0	9°30' Lt.	410	0°00'		
Δ 83°44' Lt.	1236	0°00'	N24°37'W	N27°W	
0	80°20' Lt	920	0°00'		
214+36-0	61°00' Lt	435	0°00'		
"	24°45' Lt	1266	0°00'		
"	13°00' Lt.	1700	0°00'		
"	11°40' Lt.	1184	0°00'		
208+25-Δ	75°09' Lt	611	0°00'	N59°07'E	N60°E
Δ 36°13' Lt.	761	+0°10'	S45°44'E	S44°E	
200+64-0	130° Rt	340	-0°20'		
189+57-Δ	41°08' Rt	1107	-0°44'	S9°31'E	S9°E

Sunday
7-26-14



346+42-

Δ	109°24' Rt.	1886	-0°15'	N6°22'E	N5°E
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SS	115°10' Rt.	831	-0°50'		
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SS	152°13' Rt.	1386 (1336)	+10°45'		
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SS	158°10' Rt.	635	-1°55'		
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SS	127°40' Rt.	400	-3°45'		
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○	74°15' Rt.	120			
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○	15°50' Lt.	95			
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327+56 SS	2°03' Rt.		+1°40'		
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○	136°40' Lt.	85			
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327+56-SS	158°40' Lt.				
Δ	10°57' Lt.	1278	+1°20'	S76°58'W	S74°W

314+78-SS	18°20' Lt.		-5°00'		
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307+94-Δ	7°05' Rt.	684	0°00'	S87°55'W	S84°W
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305+84-Δ	11°02' Rt.	210	0°00'	S80°50'W	S78°W
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Δ	34°17' Lt.	718		S69°48'W	S66°W
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SS	82°23' Lt.				
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298+66-○	25°00' Lt.	375	0°00'		
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"	Δ	10°50' Rt.	894	0°00'	N75°55'W	N78°W
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"	SS	11°57' Lt.			
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"	SS	5°10' Lt.			
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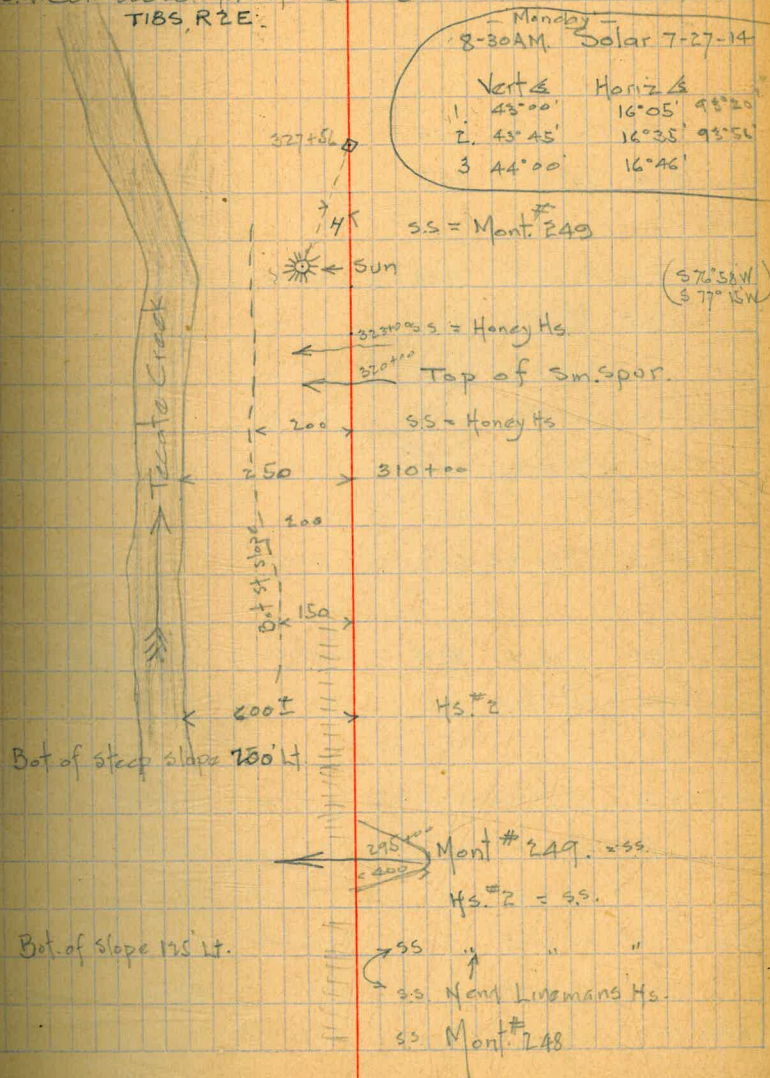
289+72-SS	103°30' Lt.				
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SS	108°36' Lt.				
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285+79-SS	116°08' Rt.				
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Sunday - 10

7-26-14 G.C.

S.W. Cor Sec 26. Md. infence line.
TIBS, R2E.

406+04-

 Δ 63°18' Lt. 1156 0°00' N5°44'E N5°E

o 58°25' Lt. 355 0°00'

SS 115°00' Lt. 300 ±

394+48-o 104°30' Rt. 240 0°00'

 Δ 23°55' Rt. 820 0°00' N69°02'E N68°E

386+28-o 33°10' Rt. 345 0°00'

381+90- Δ 2°55' Rt. 438 0°00' N45°07'E N45°E Δ 1°07' Lt. 680 0°00' N42°12'E N41°E

o 86°40' Rt. 58 +4°50'

375+10-o 140°30' Rt. 420 +0°40'

 Δ 41°31' Lt. 1260 -0°10' N43°19'E N42°E

362+50-o 15°40' Rt. 807 0°00'

 Δ 16°24' Lt. 534 -3°00' N84°50'E N84°E

357+16-o 146°10' Lt. 188 -8°55'

349+20- Δ 4°52' Rt. 800 (796) -5°00' 578°46'E 579°E Δ 72°39' Rt. 195 (169) +21°41' 583°38'E 584°E

o 30°10' Rt. 155 -6°20'

347+52-o 66°10' Lt. 77 -26°00'

 Δ 17°21' Rt. 110 +4°35' N23°48'E N24°E

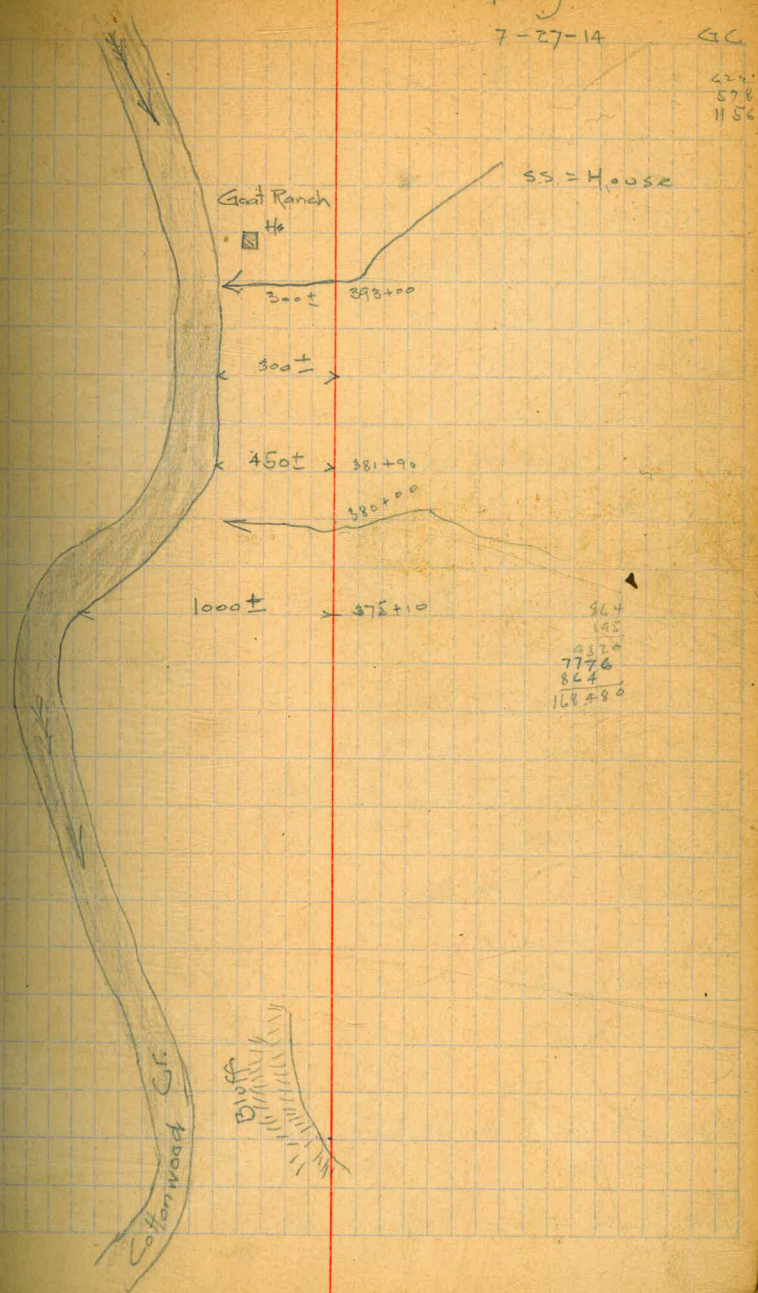
346+42-o 165°50' Lt. 210 -5°55'

Monday

7-27-14

11

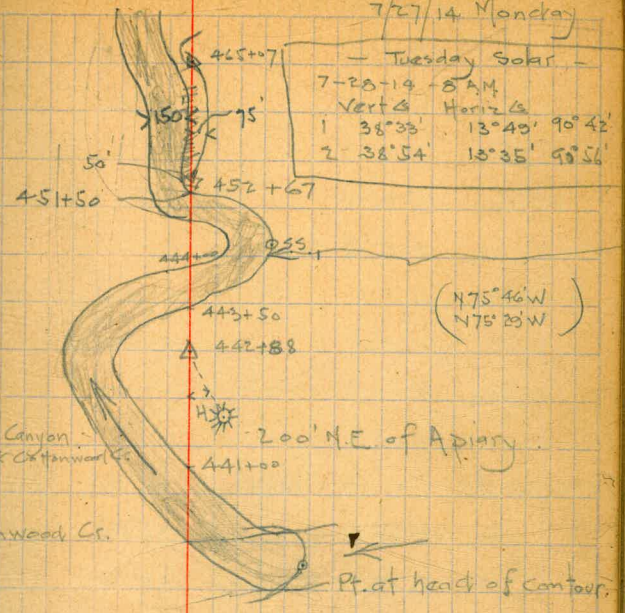
GC

420
578
1156

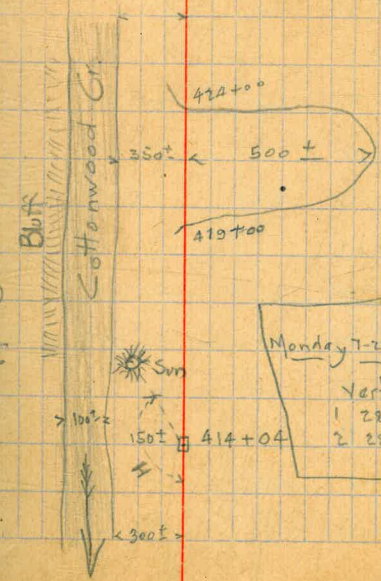
150' Contour.

465+07-0	68°00' Lt	12	-25°00'		
452+67-Δ	18°39' Lt	1240	+0°15'	S36°42' E	S37° E
7-Δ	122°17' Lt	979	0°00'	S18°03' E	S17° E
0	85°30' Lt	270	0°00'		
S.S.	83°30' Lt	198	-6°15'		
442+88-0	54°30' Lt	100	0°00'		
Δ	107°04' Lt	747	-0°45'	N75°46' W	N78° W
"	S.S.	71°50' Lt	-1°00'		
"	S.S.	75°00' Lt	300		
"	0	26°14' Lt	450	-1°10'	
"	0	47°15' Rt	862	-0°20'	
"	0	22°30' Rt	90		
435+41-0	111°00' Lt	175	-3°30'		
Δ	66°41' Rt	465	+1°15'	N31°18' E	N30° E
"	0	134°40' Rt	157	-0°20'	
430+76-0	12°50' Rt	270	-0°10'		
Δ	6°08' Rt	536	+0°45'	N35°23' W	N36° W
0	7°40' Rt	330			
"	0	168°40' Lt	93	-5°20'	
415+40-SS	178°20' Lt	262	-3°00'		
414+04-Δ	31°42' Lt	1136	+0°31'	N41°31' W	N43° W
406+04-Δ	15°33' Lt	800	0°00'	N9°49' W	N10° W

7/27/14 Monday

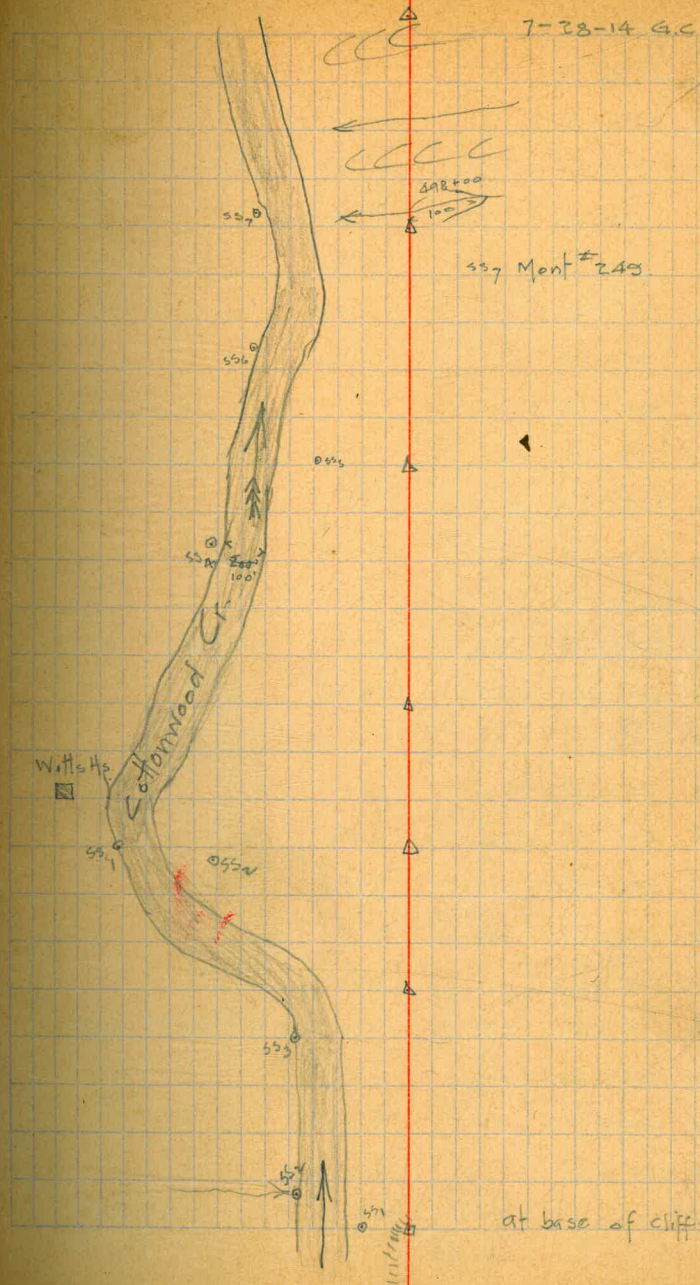


SS Pt at Junction Bee Canyon
& Cottonwood Cr.
SS Pt on S.b. Cr.
Pt. on N.b. Cottonwood Cr.



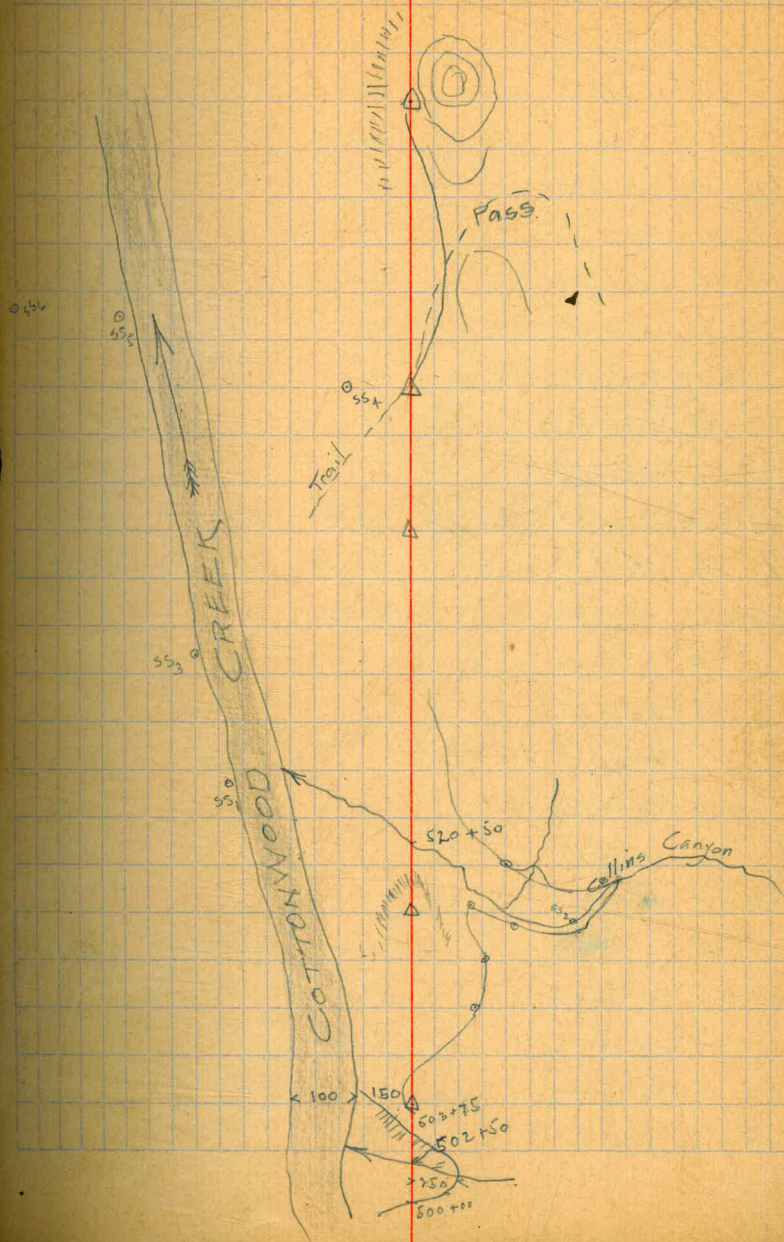
Monday 7-27-14 Solar 4-20 PM
Vert & Horiz
1 28°35' 105°10'
2 28°07' 105°26'

o	20° Rt	240	+1°20'		
o	85°00' Rt	10	Up 4 ⁵ / _{ft}		
557	10°15' Lt		-7°30'		
556	67°10' Lt				
497+19-555	146°30' Lt				
495+44 557	0°35' Rt				
495+44 Δ	4°15' Rt	175	-1°30'	S 58°48' W	S 54° W
556	39°30' Lt		-11°00'		
555	76°10' Lt		-26°00'		
495+44-554	138°20' Lt				
479+74 Δ	3°41' Rt	1570	0°00'	S 59°33' W	S 51° W
554	29°55' Lt		-3°45'		
o	2°45'	135	-0°30'		
552	118°00' Lt				
479+74-551	122°10' Lt				
	77°40' Lt		-7°00'		
478+14 Δ	18°31' Rt	160	+0°20'	S 50°52' W	S 47° W
478+14-55	91°20' Lt		-4°00'		
Δ	18°33' Rt	467	0°00'	S 32°21' W	S 30° W
553	72°10' Lt				
478+47-0	17°15' Rt	320	+0°05'		
Δ	50°30' Rt	840	-0°20'	S 13°48' W	S 13° W
o	50°00' Rt	786	-0°25'		
553	21°55' Rt		-2°50'		
552	39° Lt	419	-5°30'		
465+07-551	22°00' Lt	139	-22°30'		



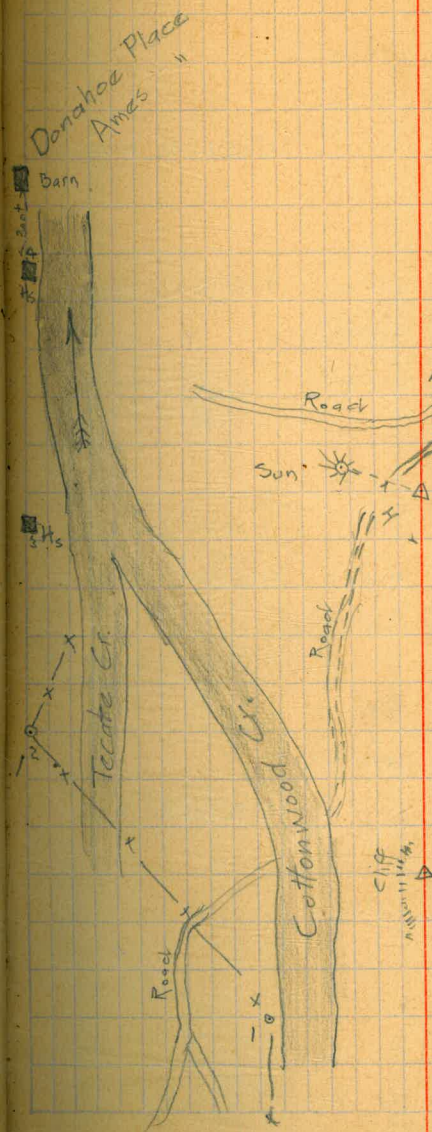
55 ₆	74° 02' LT				
55 ₅	16° 45' LT				
542 + 25 - 55 ₄	161° 43' LT				
Δ	6° 09' RT	543	0° 00'	S 84° 30' W	S 30° W
55 ₂	53° 08' LT		-2° 38'		
55 ₅	3° 12' LT		-4° 55'		
⊙	19° RT	320	+0° 20'		
55 ₄	79° 30' LT		-25° 15'		
536 + 82 - 55 ₃	125° 40' LT				
- Δ	10° 10' LT	665	0° 00'	S 28° 21' W	S 25° W
	100° 00' LT	150	-29° 00'		
55 ₃	91° 40' LT		-6° 45'		
530 + 17 - 55 ₁	115° 50' LT				
Δ	57° 47' LT	1280	+0° 20'	S 38° 31' W	S 35° W
⊙	53° 20' LT	851	+0° 30'		
⊙	44° 20' LT	523	+0° 30'		
⊙	50° 00' RT	370	+0° 40'		
55 ₂	85° 30' RT	900	-0° 30'		
⊙	89° 00' RT	450	+0° 40'		
⊙	117° 00' RT	210	+1° 30'		
517 + 37 - 55 ₁	103° 00' LT		-4° 05'		
Δ	26° 28' RT	1356	-0° 10'	N 83° 42' W	N 87° W
⊙	29° 30' RT	871	0° 00'		
⊙	30° 25' RT	751	0° 00'		
503 + 81 - 55 ₁	124° 00' LT				
497 + 19 - Δ	11° 02' RT	662	+0° 30'	S 69° 50' W	S 66° W

7-28-14 Tuesday G.C.



557+75 Δ	15° 45' Lt.	1524	0° 00'	N 55° 35' W	N 58° W
o	5° 35' Lt	1266	0° 00'		
o	3° 25' Lt.	600	0° 00'		
o	3° 40' Lt	200	0° 00'		
c	5° 00' Rt.	64	-		
o	148° 10' Rt	672	0° 00'		
o	154° 35' Rt.	976	0° 00'		
o	168° 10' Rt	1002	0° 00'		
o	176° 40' Rt	965	0° 00'		
o	176° 35' Lt.	980	0° 00'		
557+75 - 5	109° 28' Lt				
546+33 - Δ	21° 46' Lt.	1142	-2° 00'	N 29° 50' W	N 43° W
Δ	109° 27' Rt	155	+11° 04'	N 18° 04' W	N 23° W
544+76 5	0° 15' Rt.		+2° 42'		
o	51° 30' Rt	103			
4	23° 58' Lt				
3	49° 35' Lt				
o	38° 40' Lt.	37	-17° 00'		
2	59° 55' Lt				
544+78 - 1	111° 45' Rt				
Δ	16° 59' Rt	253	+2° 20'	S 51° 29' W	S 46° W
4	4° 15' Lt		-2° 25'		
3	28° 05'		-2° 05'		
2	36° 15' Lt		-2° 55'		
542+25 - 1	59° 40' Lt		-13° 40'		

7-28-14 G.C.

G = Flag in mch. of stone. $\frac{1}{16}$ Cor?Tuesday
Solar. 4-10 PM. 7-28-14

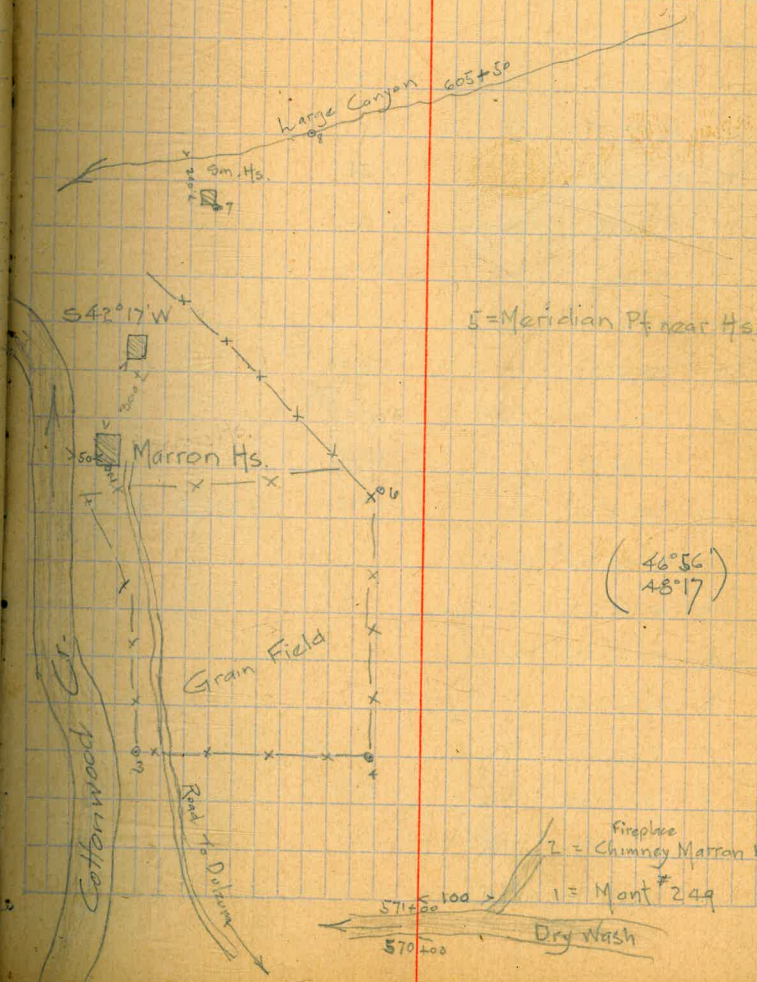
	Vert	G	H.		
1	32° 15'	112° 34'	86° 52' W		
2	31° 38'	112° 58'	86° 26' W		

5 = Mont # 249

(N 19° 26' W
N 18° 04' W)

Wednesday 7-29-14 G.C.

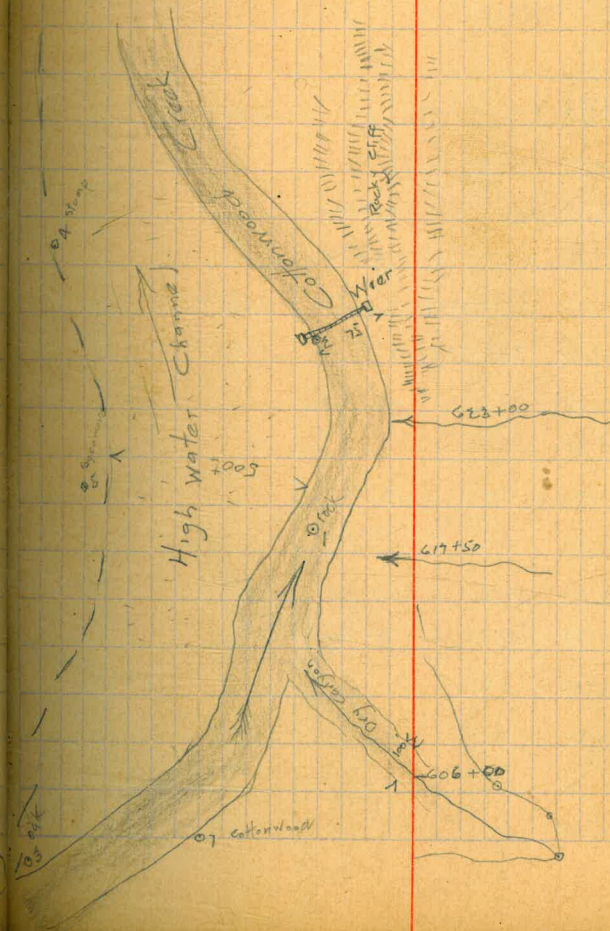
	0	17°40' Rt.	440	-1°15'		
	8	106°30' Lt.				
602+52-	0	143°10' Lt.	29	-19°10'		
	8	55°10' Lt.		-9°30'		
	Δ	15°33' Rt.	305		N53°21' W	N58° W
	7	97°40' Lt.				
599+47-	6	155°00' Lt.				
	Δ	18°26' Rt.	152	-2°10'	N68°54' W	N73° W
	7	64°45' Lt.		-9°00'		
	0	70°30' Lt.	27	-17°00'		
	4	154°30' Lt.				
597+95-	6	131°00' Lt.		-5°44'		
	5	40°52' Rt.				
	5	33°51' Lt.				
	Δ	16°32' Rt.	1130	+0°30'	N87°20' W	N89° W
	4	104°30' Lt.		-5°00'		
	3	81°02' Lt.				
	2	35°15' Lt.				
586+65-	0	15°30' Rt.	345	+0°20'		
	Δ	48°17' Lt.	1366		S76°08' W	S74° W
	0	46°30' Lt.	1102			
	3	93°06' Lt.		-2°35'		
	0	44°25' Lt.	900			
	0	20°20' Lt.	470	0°00'		
	2	66°10' Lt.		-2°05'		
572+99-	1	117°00' Lt.				



2	150°50' Lt				
635+84 - 1	162°00' Lt				
Δ 0	12°57' Lt	1512	0°00'	S10°15' W	59° W
0	12°30' Lt	1428	0°00'		
7	102°35' Lt		-3°15'		
6	79°08' Lt				
5	58°05' Lt		-5°15'		
4	33°55' Lt		-4°40'		
0	11°00' Lt	1142	0°00'		
3	90°30' Lt		-2°55'		
0	8°00' Lt	838	0°00'		
0	0°00'	697	0°00'		
0	11°10' Rt	520	0°00'		
2	22°50' Lt		-6°40'		
0	48°00' Rt	240	0°00'		
620+72 - 1	77°45' Lt		-16°24'		
Δ 0	103°27' Lt	1820	-0°15'	S23°12' W	52° W
0	98°30' Lt	1055			
0	81°15' Lt	720			
0	60°35' Lt	711			
0	46°30' Lt	731			
0	13°45' Lt	891			
0	6°40' Lt	1020	-0°20'		
0	5°00' Rt	1142	-0°25'		
602+52 - 0	9°30' Rt	990	-0°30'		

7-29-14 Tuesday

6 = Mont # 249

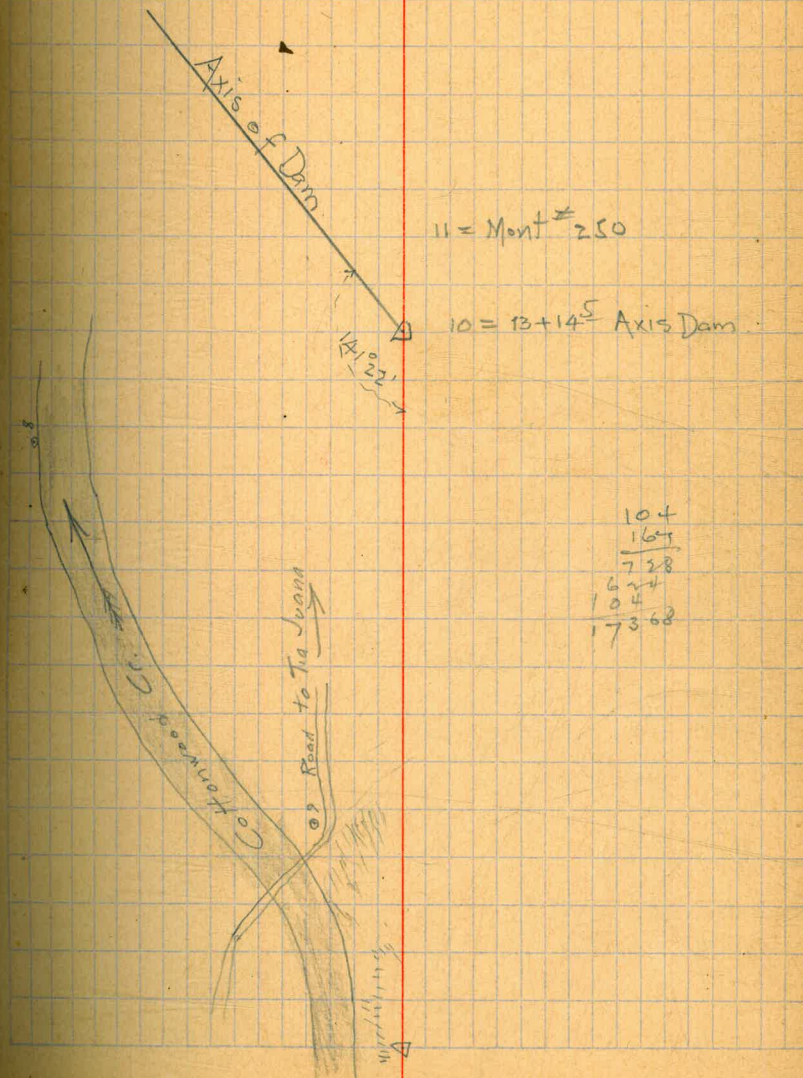


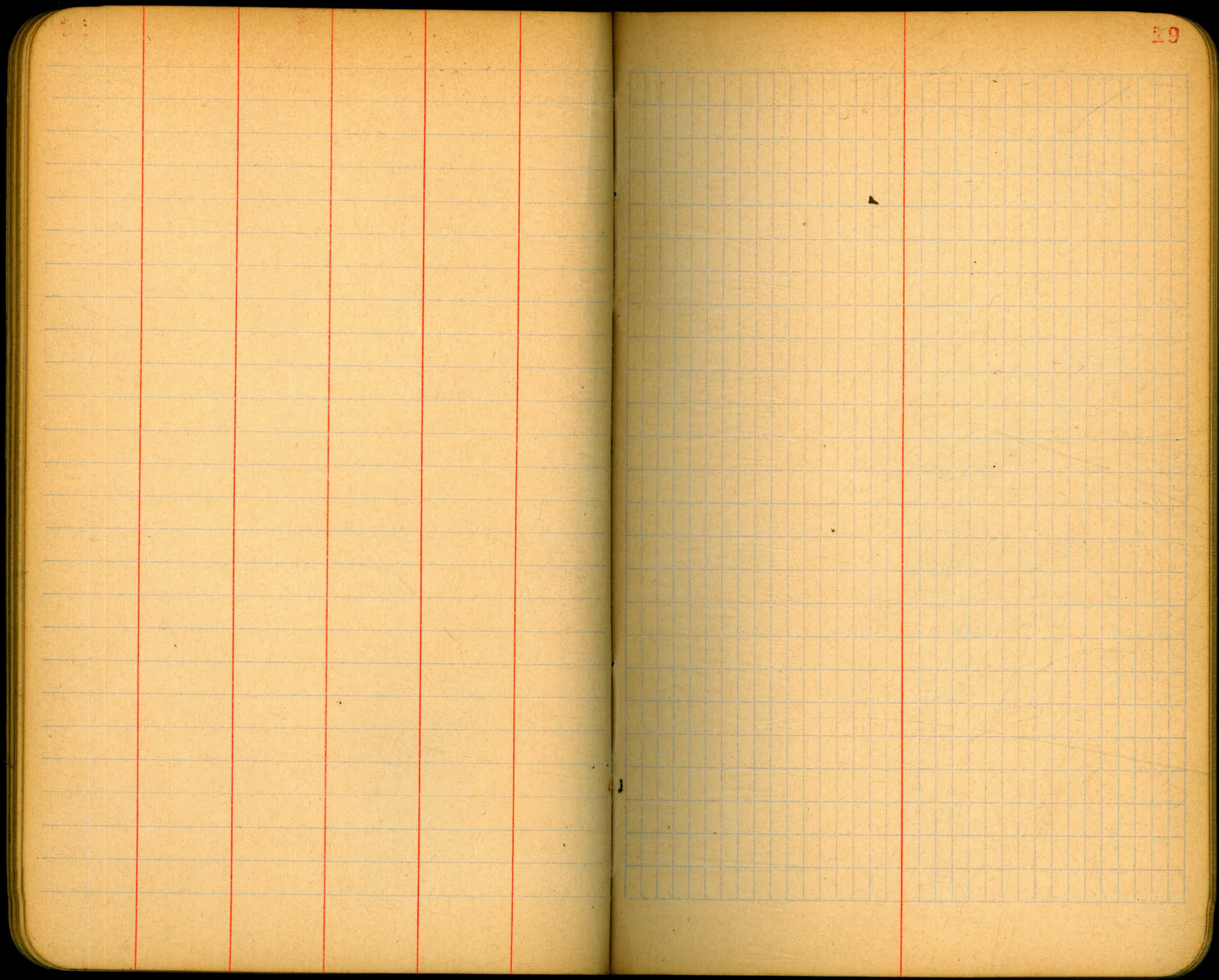
7-29-14 ac.

11

0+00 Axis Dam

642+17-10	38°38' LT			S14°24' W	
9	144°00' LT				
0	174°10' LT	180	-17°40'		
0	121°25' LT	145	-23°00'		
640+67-Δ0	69°15' LT	167 (150)	-18°50'	S53°02' W	S50° W
Δ	102°27' RT	250 (228)	+17°20'	N57°43' W	N60° W
9	23°40' LT		-15°00'		
8	38°55' LT				
638+39-0	88°00' RT	72	+14°50'		
8	20°50' LT		-7°15'		
Δ	9°35' RT	255	-4°00'	S19°50' W	S17° W
0	15°00' RT	145	0°00'		
7	126°10' LT				
4	97°45' LT				
5	120°00' LT				
635+84-3	113°40' LT				





7-29-14 G.C.

73+82-

G	28° 15' Lt.	565	+0° 20'		
S	12° 00' Lt.	564	+0° 20'		
Δ	20° 24' Lt.	1476	+0° 19'	S58° 05' E	S58° E

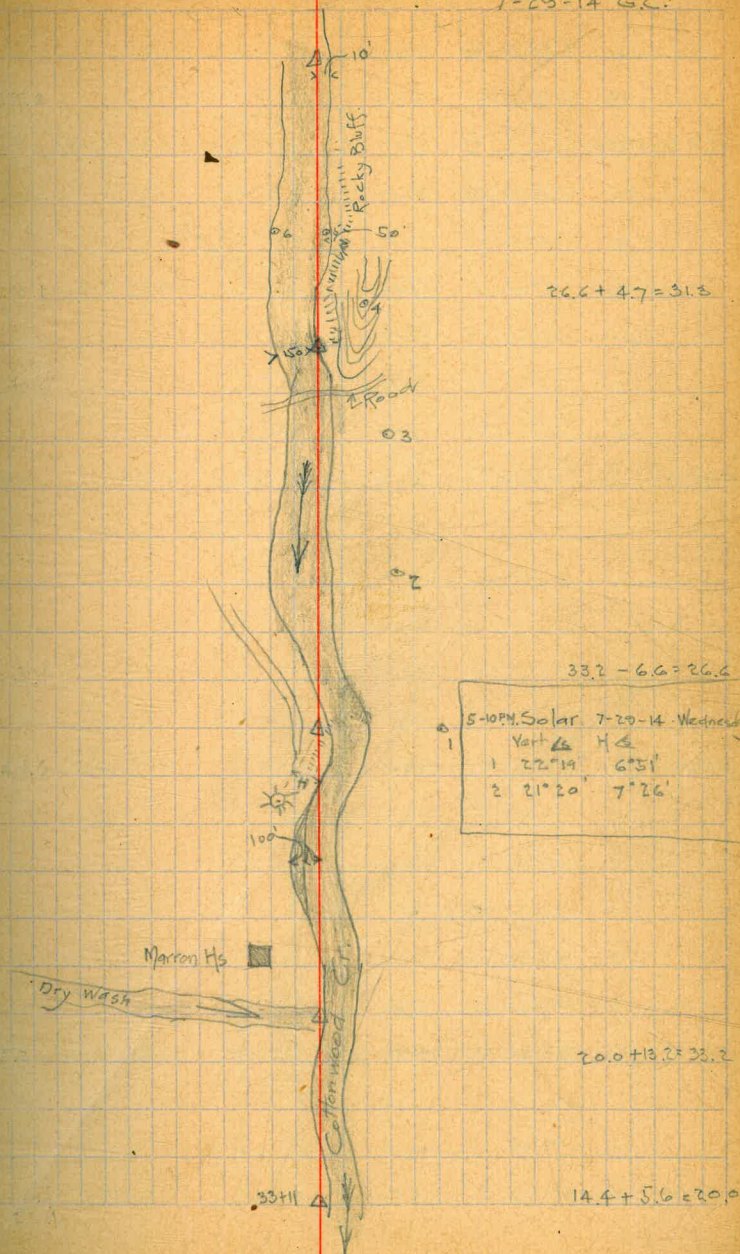
59+06- 4 53° 20' Rt 145 +31° 16'

3	58° 10' Rt	944	+0° 24'		
Z	82° 40' Rt	800	-0° 15'		
Δ	50° 19' Rt	1204	-0° 10'	S37° 41' E	S37° E
			-0° 11'		
			-0° 18'		
			-0° 10'		

47+02- 1 100° 10' Rt 872

32+31- Δ	35° 34' Rt	871	+0° 52'	S88° 00' E	S89° E
			+1° 00'		

33+11- Δ 29° 26' Rt 520 +0° 35' N56° 26' E N57° E



460

485

480

475

26.6 + 4.7 = 31.3

33.2 - 6.6 = 26.6

20.0 + 13.2 = 33.2

14.4 + 5.6 = 20.0

5-10 PM Solar 7-29-14 Wednesday
 Vert Δ H Δ
 1 22° 19' 6° 51''
 2 21° 20' 7° 26''

Ownerships Marron Valley.

Sec 23. B. Mc Leran $N\frac{1}{2}SW\frac{1}{4}$, $NW\frac{1}{4}$
 " 26 $N\frac{1}{2}SW$, $SE\frac{1}{4}SW$, $SE\frac{1}{4}NW\frac{1}{4}$, S.C.M.W.
 " 27 Roda G. McLeran $E\frac{1}{2}NE\frac{1}{4}$, $NE\frac{1}{4}SE\frac{1}{4}$
 S.S. Donohoe $S\frac{1}{2}SE\frac{1}{4}$ S.C.M.W. $SW\frac{1}{4}$, $NW\frac{1}{4}SE\frac{1}{4}$

" 34 S.S. Donohoe Lots 3+4

S.C.M.W. Lots 1&2

" 28 $SE\frac{1}{4}$ S.C.M.W.

" 33 S.C.M.W. Lots 1, 2, 3, 4.

" 32 " " " "

" 31 ———

255-256 $N84^{\circ}13'E$

221-252 - $N85^{\circ}00'53''$ 8°

12/21/19

STADIA OF CANONS ETC.

off Morona Bird Asst. map

Az Rd Vert Ls

From 0+00 Δ 20°03' L 1.80 +10°40'

Δ 76°47' RT 1.835 + 0°38'

⊙ 92°40' Lt 2.73 00

① 0°00' 1.59 +5°26'

0+00 Δ

bottom hill

✓ ✓

Mon Weor PL 286

2/15/40
 6000 ft
 1000 ft
 500 ft
 CROSS SECTION OF AREA TO BE
 FILLED ON BAY FRONT FROM FOOT
 OF G ST TO UNION ST

BM.	4.32	7.52	3.20	SE ATLANTIC + MARKET
#	26.5	5.82 6.98	4.34	3.18
150' W. OF W.L. ATLANTIC				
29' N. of S.L. G ST			3.0	
21" v - - - -			5.3	
S.L. G ST.			5.2	
(29' E. of Last reading = platform)		5.2		
(26' v v v = Cannery)		4.3		
50' S. of G ST.			5.7	
(55' E. of Last reading = Cannery)		3.6		
100' S. of G ST			7.3	
(5' E. of Last reading)		4.5		
(25' v - - - = Cannery)		3.8		
150' S. of G ST.			7.4	
(55' E. of Last = Cannery)		6.0		
170' S. of G ST			7.1	
(55' E. of Last = SW cor cannery)		6.3		
200' S. of G ST			6.6	
(73' E. of Last.)		7.0		
(7' v v v			2.7	
(24' v v v			2.7	
250' S. of G ST. = Tip of Temp. Bulb.			4.6	
(50' E. of Last			7.0	
(25' v v v			7.2	
(25' v v v = 50' W. of ATLANTIC			3.1	

Copied into
 Book 1074

262' S. of G ST.	11.5
300' - - - -	11.8
350' - - - -	12.0
370' - - - -	12.2
200' W. of W.L. ATLANTIC	
325' S. of G ST.	12.1
300' - - - -	12.1
250' - - - -	12.3
232' v - - v	12.1
200' - - - -	4.7
192' - - - -	6.9
150' - - - -	6.7
100' v - - -	6.3
50' - - - -	6.1
S.L. of G ST.	5.9
23' N - - -	4.7
29' - - - -	2.6
250' W. of W.L. ATLANTIC	
29' N. of S.L. of G ST.	2.4
21' v v - - -	4.7
S.L. of G ST.	5.5
50' S. of S.L. G ST	6.5
100' - - - -	6.4
126' - - - -	6.5
150' - - - -	4.7

250' W. of ATLANTIC	
164' S. of S.L. G ST	4.6
189' " " " "	12.1
200' " " " "	12.2
250' " " " "	12.5
275' " " " "	12.6

300' W. of W.L. ATLANTIC	
225' " " " "	12.1
200' " " " "	11.5
142' " " " "	10.7
125' " " " "	4.5
100' " " " "	4.3
50' " " " "	4.4
S.L. of G ST.	4.6
15' N. of S.L. G ST	4.7
20' " " " "	2.5

350' W. of W.L. ATLANTIC	
15' N. of S.L. G ST.	2.7
S.L. G ST	5.5
50' S. of " " " "	4.0
71' " " " "	3.5
94' " " " "	10.4
100' " " " "	10.7
150' " " " "	11.5
175' " " " "	12.4

400' W. of W.L. ATLANTIC	
125' S. of S.L. G ST	11.8
100' " " " "	11.1
50' " " " "	10.8
29' " " " "	10.5
9' " " " "	4.9
S.L. of G ST.	4.1
450' W. of W.L. ATLANTIC	
85' N. of S.L. of G ST	1.9
30' " " " "	11.3
S.L. G ST.	11.5
50' S. of " " " "	12.1
75' " " " "	12.6
460' W. of W.L. ATLANTIC	
75' " " " "	12.9
50' " " " "	12.5
S.L. of G ST.	11.7
25' N. of " " " "	11.6
75' " " " "	11.1
85' " " " "	1.9
500' W. of W.L. ATLANTIC	
140' N. of S.L. G ST.	6.3
130' " " " "	6.3
105' " " " "	12.7
75' " " " "	12.9
S.L. G ST.	12.5

= Temp Bulk

4.90

8.10

3.20

E.L. of ATLANTIC ST

3.L. of MARKET ST	4.9
3' 5. of 3.L. of ✓ -	8.5
18' ✓ - - - - ✓ -	9.7
37' ✓ - - - - ✓ -	12.5
50' ✓ - - - - ✓ -	13.1
100' ✓ - - - - ✓ -	13.5
150' ✓ - - - - ✓ -	14.0
175' ✓ - - - - ✓ -	14.4

2.58

5.78

3.20

S.E. ATLANTIC ST

75' E. of E.L. of ATLANTIC ST

3.L. of MARKET	3.4
1' 5. of ✓ - - - -	6.1
26' ✓ - - - - ✓ -	10.1
50' ✓ - - - - ✓ -	10.8
100' ✓ - - - - ✓ -	11.5
150' ✓ - - - - ✓ -	12.0
200' ✓ - - - - ✓ -	12.3
225' ✓ - - - - ✓ -	12.7

E.L. of CALIFORNIA ST

3.L. of Market	4.9
1' 5. of 3.L. of Market.	6.2
31' ✓ - - - - ✓ -	9.7
50' ✓ - - - - ✓ -	10.1
100' ✓ - - - - ✓ -	11.1

200' 5. of 5 L Market 12.3

300' ✓ - - - - ✓ - 13.1

400' - - - - - 13.7

N.L. ARCTIC ST.

4.77 6.17

1.40 SW Arctic

5 L Market 4.9

31' 5. of 3.L. of Market 5.4

50' ✓ - - - - ✓ - 7.8

100' ✓ - - - - ✓ - 11.1

200' ✓ - - - - ✓ - 12.9

300' ✓ - - - - ✓ - 13.7

400' ✓ - - - - ✓ - 14.1

500' ✓ - - - - ✓ - 14.7

550' ✓ - - - - ✓ - 15.1

S. of ARCTIC

3.L. of MARKET. 4.5

50' 5. of ✓ 4.6

75' ✓ - - ✓ 4.7

100' ✓ - - ✓ 9.5

115' ✓ - - ✓ 11.1

E.L. of ARCTIC

3.L. of MARKET 4.3

20' 5. of ✓ - - ✓ 5.2

30' ✓ - - - ✓ 4.4

50' ✓ - - - ✓ 5.1

EL ARCTIC (continued)

100' S. of S.L. of Market 8.2
 123' " " " " " 11.0

25' E. of E.L. ARCTIC

S.L. of Market 4.2
 5' S. of " " " 6.0
 50' " " " " " 7.3
 100' " " " " " 9.0
 129' " " " " " 11.1

100' E. of E.L. ARCTIC

4.78 7.20 2.42 SW INDIA

S.L. Market 4.7
 1' S. of " " " 6.0
 40' " " " " " 9.0
 100' " " " " " 9.7
 136' " " " " " 9.7
 154' " " " " " 11.3

150' E. of E.L. ARCTIC

4.24 6.66 2.42

S.L. Market 4.1
 50' S. of " " " 4.5
 100' " " " " " 4.6
 120' " " " " " 8.5
 150' " " " " " 9.5

W.L. INDIA ST.

S.L. Market 3.9
 15' S. of " " " 3.6
 50' " " " " " 4.0

67' S. of S.L. Market 4.6
 100' " " " " " 7.0
 144' " " " " " 6.8
 150' " " " " " 5.5
 165' " " " " " 5.5
 186' " " " " " 11.8
 200' " " " " " 12.6
 300' " " " " " 13.2
 400' " " " " " 14.3
 500' " " " " " 14.9
 600' " " " " " 15.7
 700' " " " " " 16.5
 750' " " " " " 17.0

E.L. of INDIA ST.

S.L. Market 4.2
 100' S. of " " " 4.5
 186' " " " " " 4.8
 188' " " " " " 8.9
 200' " " " " " 10.9
 218' " " " " " 12.5
 300' " " " " " 13.1

E.L. of COLUMBIA

1.40 6.31 4.91 SW Columbia
 250' S. of S.L. MARKET 5.4
 260' " " " " " 8.0

63
E. L. Columbia (cont)

290' S. of SL MARKET	12.3
300' - - - - -	12.7
400' - - - - -	13.7
450' - - - - -	14.1
500' - - - - -	14.4
600' - - - - -	14.8
700' - - - - -	15.2
800' - - - - -	16.5
900' - - - - -	17.6
1000' - - - - -	18.2
1050' - - - - -	18.4

125' E. of E. L. Columbia

N.L. of I ST.	4.9
1' S. of N.L. of I ST	7.3
63' - - - - -	4.5
75' - - - - -	13.3
100' - - - - -	13.4

170' E. of E. L. COLUMBIA

N.L. I ST.	5.2
8' S. of - - - - -	8.3
36' - - - - -	11.4
76' - - - - -	13.0
100' - - - - -	13.3
T.P.	3.67
	5.84
	4.14
	2.17

E. L. STATE ST.

95' S. of N.L. of I ST.	5.2
100' - - - - -	10.5
116' - - - - -	12.0
200' - - - - -	13.2
300' - - - - -	13.7
400' - - - - -	14.5
500' - - - - -	15.1
600' - - - - -	16.4
700' - - - - -	17.1
800' - - - - -	17.5
900' - - - - -	18.1
1000' - - - - -	18.6
1100' - - - - -	19.0

127' E. of E. L. STATE

155' S. of N.L. of I ST.	5.0
177' - - - - -	11.6
400' - - - - -	11.9

152' E. of E. L. STATE

180' S. of N.L. of I ST	5.0
200' - - - - -	12.4
300' - - - - -	13.4

W of UNION ST

At 6.34

195'	S. of N.L. of I ST	5.6
205'	✓ - - - -	10.8
243'	✓ ✓ - - -	13.0
300'	✓ ✓ ✓ - -	13.6
400'	✓ ✓ ✓ ✓ -	13.7
500		14.4
600		15.2
700	1	16.0
800		16.3
900		16.9
1000		17.8
1100		18.7

2/16/20 Gregory CROSS-SECTION OF
AREA TO BE FILLED
(CONTINUED)

34

310	630	320
		100' West of W.L. of ATLANTIC
269'	S. of SL 6 ST	4.6
271'	✓ - - - -	7.4
282'	✓ - - - -	11.8
300'	✓ ✓ - - -	12.1
350'	✓ - - - -	12.2
400'	✓ ✓ ✓ - -	12.5
445'	✓ ✓ ✓ ✓ -	12.5
		50' W. of W.L. of ATLANTIC
263'	S. of SL of 6 ST	6.7
287'	✓ - - - -	5.0
490'	✓ - - - -	8.1
300'	✓ - ✓ - -	9.4
350'	✓ - ✓ - -	8.9
	25' W of Last reading	11.5
400'	S. of SL 6 ST	14.2
450'	✓ - - - -	14.3
		10' W of W.L. ATLANTIC
480'	✓ - - - -	14.0
450'	✓ - - - -	13.8
400'	S. of SL 6 ST	10.0
350'	✓ - - - -	7.9
320		9.4

Tamp. Book

29W' S. of S.L. 6 ST 9.2

290' " " " " 4.6

N. L. ATLANTIC ST.

4.43 7.43 3.20

N. L. MARKET ST 4.1

5 L. " " 4.0

15' S. of 5 L. " " 4.1

17' " " " " 8.8

35' " " " " 11.5

75' " " " " 12.8

150' " " " " 13.0

4 of ATLANTIC ST

5 L. MARKET 4.0

15' S. of 5 L. MARKET 4.3

16' " " " " 7.9

40' " " " " 11.7

100' " " " " 13.6

150' " " " " 13.8

1/19/20 Gregory
C. Moore

CROSS SECTION OF
PRINGLE ST from
Titus to Arctic
see sketch on page 37

50' ST
10' obs

50' in pole
C/L

12.92	73.40		60.18
12.35	85.75	0.0	73.40
12.54	98.09	0.20	85.55
W. L. ARCTIC 55' wide 10' obs 375 1/2			
N		3.9	94.1
cb		3.7	94.3
1/2		3.4	94.6
c		3.8	94.2
1/2		3.7	94.3
cb		4.0	94.0
S		3.9	94.1
W. curb			
S		2.8	95.2
cb		2.6	95.4
1/2		2.3	95.7
c		2.2	95.8
1/2		1.8	96.2
cb		1.8	96.2
N		1.9	96.1
W Quarter			
N		0.6	97.4
cb		0.5	97.5
1/2		0.5	97.5
c		0.8	97.2
1/2		1.2	96.8

98.09

38

cb		1.2	96.8	
S		1.6	96.4	
center ARCTIC				
S		1.0	97.0	
cb		0.1	97.9	
T.P.	12.45	110.44	0.10	97.99
1/2		12.2	98.2	
c		12.0	98.4	
1/2		11.6	98.8	
cb		11.2	99.2	
N		11.2	99.2	
E. Quarter				
N		9.6	100.8	
cb		9.7	100.7	
1/2		10.3	100.1	
c		10.5	99.9	
1/2		10.9	99.5	
cb		11.7	98.7	
S		12.5	98.9	
E. curb				
S		11.6	98.8	
cb		10.7	99.7	
1/2		10.0	100.4	
c		9.4	101.0	
1/2		8.9	101.5	

110.44

cb	8.6	101.8
N	8.3	102.1
E. L. ARCTIC.		
N	6.2	104.2
cb	7.1	103.3
1/2	7.6	102.8
c	7.9	102.5
1/4	8.1	102.3
cb	8.6	101.8
+2	10.1	100.3
S	10.9	99.5

2.73' E

S	8.8	101.6
cb	8.1	102.3
1/2	7.5	102.9
c	7.1	103.3
1/4	6.9	103.5
cb	6.5	103.9
N	5.5	104.9

28.73' E

N	2.1	108.3
cb	2.6	107.8
1/4	3.0	107.4
c	4.1	106.3
1/2	4.9	105.7
+4.	5.4	105.0

110.44

PRINGLE 39

cb	5.0	105.4
S	5.4	105.0
53.73' E		
S	2.5	107.9
cb	2.2	108.2
+5	2.7	107.7
1/4	2.3	108.1
c	1.5	108.9
1/2	0.8	109.6
cb	0.0	110.4

TR. 12.29 123.14 0.19 110.25

N 12.1 110.7

78.73' E = SEC A

N	10.0	113.1
cb	10.3	112.8
1/4	10.9	112.2
c	11.8	111.3
+2	13.3	109.8
1/2	13.3	109.8
+1	12.1	110.7
cb	12.1	110.7
S	12.0	111.1

13.03' E on N
00 - 0.5 = SEC B

S	12.0	111.1
cb	12.2	110.9

1/4	120	111.1
+1	130	110.1
+2	126	110.5
c	107	112.4
1/4	98	113.3
cb	93	113.8
N	84	114.7
13.03 E. on N } = SEC. C 00 - .5		
N	76	115.5
cb	88	114.3
1/4	94	113.7
+7	107	112.4
c	119	111.2
+5	123	110.8
+6	113	111.8
1/4	115	111.6
cb	119	111.2
3	120	111.1
35.45' E. of "C"		
3	68	116.3
cb	70	116.1
1/4	66	116.5
c	60	117.1
1/4	51	117.4
cb	56	117.5
+5	63	116.8

N		48	118.3	
60.45' E				
N		19	121.2	
cb		17	121.4	
1/4		20	121.1	
c		25	120.6	
1/4		33	119.8	
cb		33	119.8	
3		40	119.1	
85.45' E				
3		00	123.1	
T.P.	12.98	135.92	0.20	122.94
cb			12.5	123.4
1/4			12.6	123.3
c			11.6	124.3
1/4			11.3	124.6
cb			10.8	125.1
N			10.6	125.3
110.45' E				
N			6.7	129.2
cb			7.1	128.8
1/4			7.4	128.5
c			8.4	127.5
1/4			9.0	126.9
cb			9.0	126.9

135.92

PRINGLE

41

S	9.3	126.6	
135.45 E = SEC. D			
S	6.1	129.8	
cb	5.0	130.9	
1/4	4.8	131.1	
c	4.4	131.5	
1/4	3.8	132.1	
cb	3.3	132.6	
N	2.7	133.2	
	2.51	133.41	on hub
2153.075 00 - N } = SEC. E			
N	2.7	133.2	
cb	4.6	133.3	
1/4	2.5	133.4	
c	2.9	133.0	
1/4	2.3	133.6	
cb	2.0	133.9	
S	2.1	133.8	
2153. E 075 00 - N } = E.L. TITUS ST			
S	+ 1.2	137.1	
cb	+ 0.6	136.5	
1/4	0.4	135.5	
c	1.2	134.7	
1/2	1.3	134.6	
cb	2.0	133.9	
N	2.7	133.2	
	6.58		on hub

SL Myrtle	327	326.5
50	327.33	326.91
100	327.66	327.33
150	328.0	327.75
200	328.33	328.16
250	328.67	328.58
300 NL. Upas	329	329.0

33001 NW Upas 3/5

33440	327.20	328.92	328.58	328.25	327.91	327.58
	5.20	5.53	5.87	6.20	6.54	6.87
	+0.2	+1.1	+1.7	+2.1	+2.7	+3.2
	327.25	328.53	328.41	328	327.55	327.16
	5.40	5.62	6.04	6.45	6.87	7.29
	+0.3	+0.4	+1.3	+2.0	+2.4	+2.0
	+ - 1 BIK 8/20/20					
	G.M. S					

	Ncb	60' St.	S.06
E. L. Ala	256		256
50	259.45		
100	262.91		
150	266.36		
200	269.82		
250	273.27		
275 ± W.L. Miss	275.0		275.0

43

NE Ala + Dwight			SE Dwight Miss	
255.00			674	
9.21			281.00	
264.03				
259.15	262.91	266.36	273.27	269.82
N 5.59	2.12	1.33	8.39	11.84
+0.5	-1.8	-3.40	+4.2	+6.2
S -0.6	-2.5	-3.80	+4.9	+6.5
stakes on ob line	3/2/20	8		
		M		
		S		

7/18/20

Gregory
Miller
Shaw

CROSS SECTION OF

ST
EL 25th to WL 26th

3.85

103.72

80' wide
14' 2 1/2"
18' 1/2"NE 10194
SE 0157

99.87

BR SE 25th

24

E.L. 25th = 0+00

S	3.5	100.2	on cement rd
cb	3.6	100.1	
1/4	3.2	100.5	
c	2.9	100.8	
1/2	2.5	101.2	
cb	1.8	101.9	
N	1.2	102.3	

0+6'

N	0.6	103.1	
cb	1.7	102.0	
1/4	2.8	100.9	
c	3.5	100.2	
1/4	3.5	100.2	
cb	4.3	99.4	
S	5.5	98.2	
+7	6.6	97.1	

0+20

-7	7.7	96.0	
S	6.7	97.0	✓
cb	5.7	98.0	
1/4	4.7	99.0	
c	4.1	99.6	
1/2	3.0	100.3	
cb	1.6	102.1	
N	1.0	102.7	

0+60

N	1.4	102.3	
cb	2.5	101.2	
1/4	3.8	99.9	
c	4.9	98.8	
1/2	6.4	97.3	
cb	7.3	96.4	
S	8.3	95.4	✓
+10	8.6	95.1	

1+00

-10	9.8	93.9	
S	9.5	94.2	✓
cb	8.8	94.9	
1/4	7.7	96.0	
c	6.1	97.6	
1/2	5.6	98.1	
cb	4.3	99.4	
+10	3.3	100.3	
+11	2.2	101.5	
N = on lawn	2.0	101.7	

1+20

N = dirt floor garage	5.0	98.7	
cb	5.1	98.6	

1+30

N	4.3	99.4	
cb	5.8	97.9	

1/4	6.6	97.1
c	8.3	95.4
1/4	9.0	94.7
cb	10.5	93.2
S	10.2	93.5
+15	11.5	92.2

1460

-15 = front of House facing W on Alley	11.9	91.8
S	11.6	92.1 ✓
cb	11.3	92.4
1/4	10.6	93.1
c	9.8	93.9
1/4	9.0	94.4
cb	8.6	95.1
N = on lawn	7.6	96.1

1475

N = End cement walk to house	8.6	95.1
------------------------------	-----	------

1485

-11.5 = front of House on lawn	8.~	95.5
N	9.8	93.9
cb	10.2	93.5
1/4	11.0	92.7
c	11.2	92.5
1/4	11.8	91.9
cb	13.1	90.6
S	13.0	90.7 ✓
+11.3 = N. side cottage	13.4	90.3

R+25

-15	15.0	88.7
S	14.9	88.8 ✓
cb	14.5	89.2
1/4	14.2	89.5
c	13.7	90.0
1/4	13.0	90.7
cb	12.6	91.1
N	12.2	91.5
+10 = on lawn	11.5	92.2

2+34.6 = location of necessary 16" pipe
- locate pipe at RT angles to st.

-10	9.1	94.6
-2.7 = end of present 14" c.p.	10.5	93.2
-2.7 from line of 14" cement pipe	(13.87)	89.85
N	13.9	89.8
cb	14.0	89.9
1/4	14.4	89.3
c	14.4	89.3
1/4	14.7	89.0
cb	14.9	89.0
S	14.7	89.0 ✓
+15	14.7	89.0

R+60

-15	12.4	91.3
S	12.5	91.2 ✓
cb	11.9	91.8

1/4		11.2	92.5
c		11.3	92.4
1/4		11.8	91.9
d		11.0	92.7
N		10.3	93.4
-d	on lawn	81	95.6
-10	v -	81	95.6
	2+90		
-9.5 = front of House on lawn		6.6	97.1
N		7.4	96.3
cb		7.4	96.3
1/4		8.1	95.6
c		8.2	95.5
1/4		8.1	95.6
cb		8.2	95.5
S		8.6	95.1 ✓
+15		8.3	95.4
	3+15		
-10		3.7	100.0
S		3.3	100.4 ✓
cb		4.3	101.4
1/4		1.2	102.5
c		1.6	102.1
1/4		1.9	101.8
cb		1.5	102.2
N		1.8	101.9

+5			0.6	103.1
T.P.	13.11	116.53	0.30	103.42
		3+37		
N			10.5	106.0
cb			10.0	106.5
		3+45		
N			7.4	109.1
cb			7.8	108.7
1/4			7.6	108.9
c			7.8	108.7
1/4			8.2	108.3
cb			8.5	108.0
S			8.8	107.7 ✓
		3+65		
S			5.0	111.5 ✓
cb			3.9	112.6
1/4			3.4	113.1
c			3.1	113.4
1/4			3.7	112.8
cb			3.0	113.5
N			4.9	113.6
T.P.	13.14	128.63	1.04	115.49
		3+90		
N			10.5	118.1
cb			10.5	118.1

1/2	10.9	117.7
c	10.9	117.7
1/4	11.0	117.6
cb	11.2	117.4
s	12.0	116.6

4+05

s	10.6	118.0
cb	10.0	118.6
1/4	9.5	119.1
c	8.9	119.7
1/2	8.9	119.7
cb	8.9	119.7
N	8.7	119.9

4+33

N	4.8	123.8
cb	5.1	123.2
1/4	4.8	123.8
c	5.2	123.4
1/2	5.8	122.8
cb	7.0	121.6
s	7.7	120.9

4+65

s	4.5	124.1
cb	3.6	125.0
1/4	3.5	125.1
c	3.2	125.4

1/4		2.5	126.1	
cb		2.3	126.3	
N		1.1	127.5	
TP	12.19	140.64	0.18	128.45

5+00

N		9.0	131.6
+3		9.9	130.7
cb		10.5	130.1
1/2		11.6	129.0
c		11.8	128.8
1/4		12.0	128.6
cb		12.8	127.8
s		14.6	126.0
+10		-15.5	125.1

5+25

-15		13.7	126.9
s		12.6	128.0
cb		11.6	129.0
1/2		10.2	130.2
c		10.2	130.4
1/4		9.4	131.2
cb		7.5	132.8
+14		7.2	133.4
N		6.4	134.2

140.64

5+53

N	3.0	137.6
+5	4.9	135.7
cb	5.1	135.5
1/4	6.0	134.6
c	6.7	133.9
1/4	8.0	132.6
cb	8.6	132.0
S	10.2	130.4
+15	11.6	129.0

5+58

N	2.4	138.2
+5	3.8	136.8
cb	4.9	135.7
1/4	5.5	135.1
c	5.5	135.1

5+61.5 = W.L. 26th ST.

S = corner of cement walk.	4.50	136.1
cb	4.7	135.9
1/4	4.5	136.1
c	5.1	135.5
1/4	7.5	138.1
cb	7.1	138.5
N	1.6	139.0
chk on ob. 31 st 26 th 4.5	4.75	135.89

J ST. 48

12/24/23

Gregory

X section of Santa Monica
from E.L. De Foe to Guizat80' wide
20' cbs

	7.15	32.19	25.04	NW Newport + De Foe
		E.L. De Foe		
S		6.8	15.5	✓
cb		6.8	15.3	✓
1/2		6.7	15.2	✓
c		6.7	15.1	✓
1/4		6.5	15.6	✓
cb		6.5	15.1	✓
N		6.7	15.5	✓
		18'E		
N		4.5	12.6	✓
cb		5.0	11.1	✓
1/2		5.2	16.9	✓
c		5.6	16.5	✓
1/6		4.3	17.8	✓
cb		5.0	17.1	✓
S		5.5	16.6	✓
		50'E		
S		4.3	17.8	✓
10		4.6	17.5	✓
cb		4.0	18.1	✓
1/2		2.7	19.2	✓
15		2.2	19.9	✓
c		3.2	18.9	✓
1/4		3.8	18.3	✓

31.1

49

cb		4.0	18.1	✓
N		3.7	18.4	✓
		100'E		
N		2.8	19.3	✓
cb		3.3	18.8	✓
1/2		3.0	19.1	✓
c		2.9	19.1	✓
1/2		1.9	30.4	✓
cb		1.8	30.3	✓
15		3.2	18.9	✓
S		2.2	19.7	✓
		150'E		
S		1.7	30.2	✓
cb		1.2	30.9	✓
1/2		1.2	30.7	✓
c		1.4	30.7	✓
1/2		1.6	30.7	✓
cb		1.6	30.5	✓
N		1.6	30.5	✓
TP	11.98	43.89	0.28	31.91
		200'E		
N		12.2	31.6	✓
cb		11.7	34.1	✓
1/2		11.6	31.4	✓
c		11.6	31.4	✓

43.89

1/2		11.3	37.5 ✓
cb		10.0	33.8 ✓
+5		10.0	33.8 ✓
+10		11.6	37.1 ✓
S		12.3	31.5 ✓
	250' E		
S		10.5	33.3 ✓
+10		8.6	35.1 ✓
+17		9.3	34.5 ✓
cb		10.5	33.2 ✓
1/4		10.1	33.7 ✓
c		9.6	34.1 ✓
1/4		10.0	33.8 ✓
cb		9.8	34.0 ✓
N		10.5	33.3 ✓
	300' E		
N		8.4	35.4 ✓
cb		8.1	35.7 ✓
1/2		8.4	35.4 ✓
c		8.8	35.0 ✓
1/2		9.0	34.8 ✓
cb		9.4	34.4 ✓
+1		8.4	35.4 ✓
S		8.3	35.5 ✓
	350' E		
S		7.2	36.6 ✓

Santa Monica 50

43.8

+15		7.1	36.7 ✓
cb		7.6	36.1 ✓
1/2		7.4	36.4 ✓
c		6.5	37.3 ✓
1/2		6.7	37.1 ✓
cb		6.1	37.7 ✓
+12		6.4	37.4 ✓
N		6.7	37.1 ✓
	400' E		
N		5.1	38.7 ✓
cb		4.8	39.0 ✓
1/2		4.4	39.4 ✓
c		4.3	39.5 ✓
1/2		4.9	38.9 ✓
cb		5.8	38.0 ✓
S		5.3	38.5 ✓
	435' E		
S		3.7	40.1 ✓
cb		3.7	40.1 ✓
1/2		3.2	40.6 ✓
c		3.1	40.7 ✓
1/2		3.5	40.3 ✓
cb		3.6	40.1 ✓
N		3.8	40.0 ✓

43.89

465' E

N	2.7	41.1 ✓
cb	2.6	41.5 ✓
1/4	2.7	41.1 ✓
c	1.9	41.9 ✓
1/4	2.0	41.8 ✓
cb	2.3	41.5 ✓
S	2.6	41.4 ✓

475' E'

S	2.2	41.6 ✓
cb	1.9	41.9 ✓
1/4	1.6	41.1 ✓
+2	2.7	41.1 ✓
c	3.1	40.7 ✓
+5	3.6	40.4 ✓
1/4	1.6	41.1 ✓
cb	2.0	41.8 ✓
N	2.0	41.8 ✓

500' E

N	0.9	41.9 ✓
cb	1.1	41.7 ✓
1/4	1.0	41.8 ✓
+5	0.8	43.0 ✓
c	2.8	41.0 ✓
1/4 +8	0.8	43.0 ✓
1/4	0.8	43.0 ✓

Santa Monica 31

43.8

cb	1.3	44.5 ✓
S	1.0	44.8 ✓

530' E

S	+0.1	44.0
cb	0.1	43.7 ✓
1/4	0.1	43.7 ✓
c	1.5	44.5 ✓
+5	+0.2	44.1
1/4	+0.3	44.2
cb	+0.2	44.1
N	+0.3	44.2
TP.	12.55 5632 012	43.77

560' E

563		
N	10.9	45.2 ✓
cb	11.0	45.3 ✓
1/4	10.8	45.5 ✓
+3	12.6	43.7 ✓
c	13.1	43.4 ✓
+3	13.1	43.4 ✓
+5	10.7	45.6 ✓
1/4	10.8	45.5 ✓
cb	10.9	45.4 ✓
S	10.6	45.7 ✓

573' E

S	10.1	46.1 ✓
---	------	--------

cb	10.3	46.0 ✓
1/4	10.3	46.0 ✓
+7	10.4	45.9 ✓
c	11.6	44.7 ✓
1/4	11.9	44.2 ✓
+8	12.7	43.6 ✓
cb	10.5	45.8 ✓
N	10.5	45.8 ✓
600 E = WL Ebers 60' wide 10' cbs		
N	9.2	47.1 ✓
+18	9.2	47.1 ✓
cb	10.4	45.9 ✓
+4	12.1	44.2 ✓
1/4	10.6	45.7 ✓
+5	9.4	46.9 ✓
c	9.2	47.1 ✓
1/4	9.0	47.3 ✓
cb	9.1	47.4 ✓
5	9.1	47.4 ✓
W. Curb		
5	8.8	47.5 ✓
cb	8.7	47.6 ✓
1/4	8.6	47.7 ✓
c	8.9	47.2 ✓
+5	8.9	47.1 ✓
+8	11.5	44.8 ✓

56.3

1/4	11.5	44.8 ✓
+8	10.4	45.9 ✓
cb	8.6	47.7 ✓
N	8.6	47.7 ✓
W. Quarter		
N	8.1	49.1 ✓
cb	8.0	48.3 ✓
+2	9.7	46.6 ✓
1/4	10.4	45.9 ✓
+5	11.2	45.1 ✓
c	8.5	47.8 ✓
1/4	8.2	48.1 ✓
cb	8.5	47.8 ✓
+10	8.0	48.3 ✓
5	8.6	47.7 ✓
Center Ebers		
5	9.9	48.2 ✓
cb	8.1	49.1 ✓
1/4	8.0	48.3 ✓
c	10.1	46.4 ✓
+6	10.8	45.5 ✓
1/4	9.6	46.7 ✓
cb	9.1	47.4 ✓
+2	7.7	48.6 ✓
N	7.8	48.5 ✓

5632

E. Quarter

N	7.4	48.9	✓
+17	7.5	48.8	✓
cb	9.0	47.3	✓
1/4	8.1	48.4	✓
c	9.4	46.9	✓
+3	7.7	48.6	✓
1/4	8.0	48.3	✓
cb	7.8	48.5	✓
S	7.8	48.5	✓

E. Curb

S	6.8	49.5	✓
cb	7.2	49.1	✓
1/4	7.4	49.9	✓
c	7.9	48.6	✓
1/4	8.1	48.4	✓
cb	7.8	49.5	✓
N	7.4	48.9	✓

E. L. Ebers

N	6.6	49.7	✓
+10	6.5	49.8	✓
cb	7.3	49.0	✓
+5	8.5	47.9	✓
1/4	8.7	47.6	✓
c	7.3	49.0	✓
1/4	6.8	49.5	✓

Santa Monica 53

56.3

cb	6.5	49.8	✓
S	6.6	49.7	✓
20' E			
S	5.7	50.6	✓
cb	5.6	50.7	✓
1/4	5.7	50.6	✓
c	6.0	50.3	✓
+8	6.4	49.9	✓
1/4	7.8	48.5	✓
cb	8.4	47.9	✓
+3	8.4	47.9	✓
+5	6.1	50.4	✓
N	6.0	50.3	✓
40' E			
N	5.2	51.1	✓
+5	5.2	51.1	✓
+8	7.3	49.0	✓
cb	8.1	48.4	✓
+3	5.2	51.1	✓
1/4	5.1	51.4	✓
c	5.4	50.9	✓
1/4	5.0	51.3	✓
cb	4.8	51.5	✓
S	4.6	51.7	✓

5632

42'E

56.3

S	45	51.8	/
cb	47	51.6	/
1/4	47	51.6	/
C	56	50.7	/
1/4	48	51.5	/
+7	50	51.3	/
cb	81	48.4	/
N	73	49.0	/

50'E

N	64	49.1	/
+16	48	51.5	/
cb	62	50.1	/
+1	46	51.7	/
1/4	42	51.1	/
C	52	51.1	/
1/4	42	51.1	/
cb	43	51.0	/
S	42	51.1	/

65'E

S	33	53.0	/
cb	34	51.9	/
1/4	35	51.9	/
+8	37	52.6	/
C	46	51.7	/
+3	46	51.7	/

Santa Monica

54

56.3

+6	37	54.6	/
1/4	34	54.9	/
+8	36	54.7	/
cb	43	54.0	/
+5	37	54.6	/
N	43	54.0	/

100'E

N	1.5	54.8	/
+19	1.3	55.0	/
cb	2.8	53.5	/
+8	2.3	54.0	/
1/4	1.4	54.9	/
+6	1.5	54.8	/
+8	2.9	53.4	/
C	2.9	53.4	/
+5	2.9	53.4	/
+7	1.3	55.0	/
1/4	1.3	55.0	/
cb	1.5	54.8	/
S	1.3	55.0	/

125'E

S	0.3	56.0	/
cb	0.0	56.3	/
1/4	0.0	56.3	/
+4	0.0	56.3	/

56.32

+5		2.4	53.9 ✓	
C		2.4	53.9 ✓	
+4		2.4	53.9 ✓	
+5		0.1	56.2 ✓	
1/4		0.1	56.2 ✓	
+2		0.2	56.1 ✓	
+3		1.5	54.8 ✓	
cb		2.1	56.2 ✓	
+3		0.2	56.1 ✓	
N		0.3	56.0 ✓	
T.P.	12.93	68.91	0.34	55.98
		150 E		
N		11.1	57.8 ✓	
+16		11.3	57.6 ✓	
+17		13.0	55.9 ✓	
cb		13.0	55.9 ✓	
+7		13.7	55.2 ✓	
1/4		11.7	57.2 ✓	
+5		11.4	57.5 ✓	
+6		14.0	54.9 ✓	
C		14.0	54.9 ✓	
+3		13.2	55.7 ✓	
+4		11.4	57.5 ✓	
1/4		11.0	57.9 ✓	
cb		11.2	57.7 ✓	
S		11.2	57.7 ✓	

Santa Monica 55

175 E 68.9

S		96	59.3 ✓
cb		95	59.4 ✓
1/4		95	59.4 ✓
+6		10.0	58.9 ✓
C		12.8	56.1 ✓
+8		12.5	56.4 ✓
1/4		10.2	58.7 ✓
+6		10.2	58.7 ✓
+7		12.1	56.8 ✓
cb		12.1	56.8 ✓
+4		12.2	56.7 ✓
+5		10.2	58.7 ✓
N		10.4	58.5 ✓

200' E

N		9.2	59.7 ✓
+12		9.1	59.8 ✓
+13		11.0	57.9 ✓
cb		11.4	57.5 ✓
+2		9.0	59.9 ✓
+8		8.7	60.2 ✓
1/4		10.7	58.2 ✓
C		11.7	57.2 ✓
+4		11.3	57.6 ✓
+7		8.3	60.6 ✓
1/4		8.3	60.6 ✓

68.91

68.9

cb

82

60.7 ✓

s

82

60.7 ✓

225' E

s

65

62.2 ✓

cb

69

64.0 ✓

1/4

71

61.8 ✓

+9

71

61.8 ✓

c

91

59.8 ✓

1/4

99

59.0 ✓

+4

93

59.6 ✓

+6

73

61.6 ✓

cb

10.0

58.9 ✓

+8

98

59.1 ✓

+11

76

61.3 ✓

N

79

61.0 ✓

250' E

N

66

61.3 ✓

+9

64

61.5 ✓

+12

83

60.6 ✓

cb

82

60.7 ✓

+5

63

62.6 ✓

+9

61

62.8 ✓

1/4

79

61.0 ✓

+5

82

60.5 ✓

c

72

61.7 ✓

+8

57

63.4 ✓

Santa Monica 58

68.9

1/4

57

63.2 ✓

cb

51

63.8 ✓

s

51

63.8 ✓

275' E

s

3.5

65.4 ✓

cb

3.6

65.3 ✓

1/4

5.2

63.5 ✓

c

4.3

62.6 ✓

1/4

5.5

63.4 ✓

+2

4.3

62.6 ✓

+6

4.3

62.6 ✓

+7

6.1

62.8 ✓

cb

6.6

62.3 ✓

+4

5.9

63.0 ✓

+6

4.8

62.1 ✓

N

5.1

63.8 ✓

300' E

N

3.3

65.6 ✓

+14

3.3

65.6 ✓

+16

5.0

63.9 ✓

cb

5.0

63.9 ✓

+7

4.8

62.1 ✓

1/4

3.1

65.8 ✓

c

3.0

65.9 ✓

+1

4.3

62.6 ✓

8156

1/2		125	69.0	/
+2		12.5	69.0	/
+4		11.0	70.5	/
cb		10.5	71.0	/
s		9.5	71.7	/
	400' E			
s		8.5	70.0	/
+13		8.7	71.8	/
+15		10.7	70.8	/
cb		11.0	70.5	/
+4		10.6	70.9	/
+6		9.2	71.3	/
1/2		9.2	71.3	/
c		9.6	71.1	/
1/4		9.6	71.1	/
cb		9.6	71.9	/
N		9.8	71.7	/
	415' E			
N		8.4	73.1	/
cb		8.2	73.3	/
1/4		8.1	73.6	/
c		8.4	73.1	/
1/4		8.2	73.3	/
cb		8.0	73.5	/
+5		7.9	73.6	/
+7		8.5	73.0	/

Santa Monica 38

815

s		8.3	73.1	/	
	425' E				
s		7.0	74.5	/	
cb		7.1	74.4	/	
1/4		7.2	74.5	/	
c		7.4	74.1	/	
1/4		7.3	74.4	/	
cb		7.3	74.4	/	
N		7.1	74.4	/	
	see former notes for sections from here to 450' E of Froude.				
TP	12.62	94.09	009	81.47	
TP	12.53	106.34	028	93.81	
TP	12.57	118.85	006	106.28	
TP	12.60	130.94	051	118.34	
TP	13.00	143.44	050	130.44	
			450' E of Froude.		
			$\frac{143.44}{13.0}$	130.4	/
-10			12.9	130.5	/
N			12.5	130.9	/
+10			11.7	131.7	/
cb			10.7	134.7	/
1/4			9.7	133.7	/
c			8.7	134.7	/
1/4			7.4	136.0	/
cb					/

143.4

S	4.4	134.0	
	465' E		
S	5.1	138.5	✓
cb	7.7	135.7	✓
1/4	9.0	134.2	✓
C	9.8	132.6	✓
1/4	10.7	132.7	✓
cb	11.4	132.0	✓
N	12.0	131.4	✓
+5	17.1	126.3	✓
+12	17.1	126.2	✓
+17	11.9	131.5	✓
	475' E		
-15	11.4	132.0	✓
-9	11.1	132.2	✓
-5	17.0	126.2	✓
N	17.0	126.2	✓
+5	11.2	132.4	✓
cb	10.8	132.6	✓
1/4	10.3	132.1	✓
C	9.7	133.7	✓
1/4	9.0	134.2	✓
cb	7.6	135.8	✓
S	5.2	138.1	✓
	493' E		
S	5.3	138.1	✓

Santa Monica 59

143.4

+15	7.3	136.1	✓
cb	7.7	135.7	✓
1/4	8.3	135.1	✓
C	9.1	134.3	✓
1/4	9.3	134.1	✓
+6	9.6	133.8	✓
cb	14.7	128.7	✓
+2	13.6	129.8	✓
N	15.3	128.1	✓
+1	10.0	133.4	✓
+10	9.3	134.1	✓
	495' E		
-10	9.3	134.1	✓
N	10.0	133.4	✓
+1	14.1	129.3	✓
+18	13.6	129.8	✓
cb	14.7	128.7	✓
+4	9.6	133.8	✓
1/4	9.3	134.1	✓
C	9.1	134.3	✓
1/4	8.3	135.1	✓
cb	7.7	135.7	✓
+5	7.3	136.1	✓
S	5.3	138.1	✓

14344

513'E

-5	5.1	128.3	/
S	5.6	127.8	/
cb	6.9	126.5	/
1/2	7.3	126.1	/
+4	7.3	126.1	/
C	13.0	120.6	/
+4	13.0	120.6	/
+5	8.0	128.4	/
1/4	8.4	128.0	/
cb	8.5	127.9	/
N	8.6	127.8	/
+1	10.5	127.9	/
+20	8.4	125.0	/

515'E

-20	8.4	125.4	/
N	10.5	127.9	/
+5	10.2	123.2	/
+7	8.0	125.4	/
cb	7.9	125.5	/
1/2	8.4	125.0	/
+6	8.0	125.4	/
C	13.0	120.6	/
+4	13.0	120.6	/
+6	7.2	126.2	/
1/2	7.0	126.4	/

14345

60

cb	6.7	126.7	/
S	5.5	127.9	/
+5	5.2	128.2	/

524'E

-5	5.0	128.4	/
S	5.2	128.2	/
cb	6.0	127.4	/
1/4	6.6	126.8	/
+3	12.4	121.0	/
+6	12.4	121.0	/
+7	7.0	126.4	/
C	7.1	126.3	/
1/2	7.0	126.4	/
+8	7.1	126.3	/
cb	9.6	123.8	/
+10	9.7	123.7	/
N	9.1	124.2	/
+3	7.2	126.4	/
+12	6.9	126.5	/

525'E

-12	6.9	126.5	/
N	7.2	126.4	/
+5	9.5	123.9	/
cb	9.5	123.9	/
+2	9.5	123.9	/

14344

+3	7.0	136.2	✓
1/4	6.8	136.6	✓
C	6.9	136.5	✓
+3	6.9	136.5	✓
+4	12.5	136.4	✓
+8	12.5	136.9	✓
1/4	6.7	136.7	✓
Cb	6.0	137.0	✓
S	5.2	138.2	✓
+5	5.0	138.6	✓

535'E

-5	4.3	139.1	✓
S	4.5	138.9	✓
Cb	5.4	138.0	✓
+9	5.9	137.5	✓
1/4	12.0	131.4	✓
+4	12.0	131.4	✓
+5	6.1	137.5	✓
C	6.1	137.5	✓
1/4	6.3	137.1	✓
+1	8.7	134.7	✓
+7	8.7	134.7	✓
Cb	6.3	137.1	✓
N	6.3	137.1	✓
+12	5.7	137.7	✓

Santa Monica

61

538'E

143

-12	5.5	137.9	✓
N	6.1	137.5	✓
Cb	5.8	137.6	✓
+3	5.9	137.5	✓
+6	8.2	135.2	✓
1/4	8.3	135.1	✓
C	8.9	135.5	✓
+2	5.3	138.1	✓
+7	5.7	137.7	✓
+9	11.5	131.9	✓
1/4	11.5	134.9	✓
+2	11.5	131.9	✓
+3	5.8	137.6	✓
Cb	5.1	138.3	✓
S	4.3	139.1	✓
+5	3.9	139.5	✓

553'E

-5	2.9	140.5	✓
S	3.0	140.1	✓
+15	4.1	139.3	✓
Cb	6.5	136.9	✓
+3	9.2	134.2	✓
1/4	6.8	136.6	✓
C	5.0	138.6	✓
1/4	4.4	139.0	✓

	143.44	143.4	
+1		8.1	135.3 ✓
cb		7.6	135.8 ✓
+1		3.9	139.5 ✓
N		4.3	139.1 ✓
+10		4.3	139.1 ✓
		573 E	
-5		1.5	141.9 ✓
N		1.7	141.7 ✓
+19		1.2	142.2 ✓
cb		5.1	138.3 ✓
+6		5.1	138.3 ✓
1/4		0.3	143.1 ✓
C		+0.9	144.3 ✓
1/4		1.0	142.2 ✓
cb		8.0	135.2 ✓
+3		2.1	141.3 ✓
S		1.2	142.0 ✓
+5		1.2	142.2 ✓
T.P.	12.08	154.92	0.60 142.84 ✓
		585 E 154.9	
-7		11.5	143.2 ✓
S		11.9	142.0 ✓
+15		12.2	142.5 ✓
+17		14.3	140.6 ✓
cb		15.3	139.6 ✓
+5		13.3	141.6 ✓

	154.9		
1/4	10.0	142.9 ✓	
C	10.0	142.9 ✓	
1/4	9.8	145.1 ✓	
+4	10.5	144.2 ✓	
cb	15.7	139.2 ✓	
+4	15.7	139.2 ✓	
+6	11.5	143.2 ✓	
N	11.8	143.1 ✓	
+5	11.8	143.1 ✓	
		595 E	
-2	10.2	142.5 ✓	
N	10.2	142.5 ✓	
+16	10.2	144.7 ✓	
cb	13.7	141.2 ✓	
+5	9.6	145.3 ✓	
1/4	9.8	145.1 ✓	
C	10.1	142.8 ✓	
1/4	9.9	145.0 ✓	
+5	10.5	142.2 ✓	
cb	14.6	140.3 ✓	
+2	11.2	143.7 ✓	
S	10.6	144.3 ✓	
+5	10.4	144.5 ✓	
		600 E = W.L. Guizot	
S	8.8	146.1 ✓	

154.9.2

1529

cb	9.4	145.5	/
+v	14.2	140.7	/
+5	9.3	145.6	/
1/4	9.3	145.6	/
c	10.3	144.6	/
1/4	10.0	144.9	/
+5	10.2	144.7	/
+7	13.3	141.6	/
cb	13.3	141.6	/
+1	9.9	145.0	/
N	9.8	145.1	/
chk B.M.	6.60	146.3	/
E.L. Guizot			
Scb.	6.70	146.4	/ on 100' point
1' S	7.4	147.5	/
9' S	7.1	147.8	/
S.L.	6.5	148.2	/
18' E			
S.L.	5.7	149.4	/
5' N	6.4	148.5	/
7' -	5.4	149.5	/
8' -	6.7	146.4	/
10' -	6.7	148.4	/
12' -	5.4	149.5	/
Scb.	4.8	150.1	/

SE Guizot
+ Santa Ana

164.5.2

63

26' E 1529

Scb	3.9	151.0	/
53	4.1	150.8	/
7' -	4.5	150.1	/
8' -	4.3	150.6	/
10' -	4.3	150.6	/
12' -	6.2	148.7	/
16' -	3.9	151.0	/
20' -	2.9	154.0	/

50' E

S.L.	1 0.3	154.6	/
9' N	4.4	150.5	/
10' -	1.5	153.2	/
19' -	1.5	153.2	/
20' -	1.3	153.6	/
T.P.	12.84	167.31	0.45
154.47			

75' E 167.3

Scb	11.3	156.0	/
11' S	11.3	156.0	/
12' -	14.5	154.8	/
14' -	14.5	154.8	/
15' -	12.4	154.9	/
20' - = S.L.	10.0	157.3	/

Curb OK from E.L. Guizot to 80' E

100' E

S.L.	7.7	159.6	/
------	-----	-------	---

167.31

167.3

2' N	8.1	159.1 ✓
5'	9.8	157.5 ✓
10'	9.9	157.1 ✓
13'	8.4	158.9 ✓
19'	8.3	159.0 ✓
20'	8.0	159.3 ✓

135' E

S. Cb.	4.7	161.1 ✓
4'S	7.8	154.5 ✓
13'	8.3	159.0 ✓
20' - 25k.	3.2	162.1 ✓

150' E

S.L	1.6	165.7 ✓
5' N	7.5	159.8 ✓
9' ✓	7.2	160.1 ✓
10' ✓	4.6	162.7 ✓
17'	2.6	162.7 ✓
S Cb. Line	4.8	162.5 ✓

160' E

S Cb Line	3.0	162.3 ✓
5'S	1.9	165.2 ✓
10' ✓	5.2	162.1 ✓
S.L	5.6	161.7 ✓

Curb out from 80' E of Gvizot to 168' E

TP.	6.75	172.88	0.68	166.63
-----	------	--------	------	--------

2.2
166.21

172.8

64

175' E

S.L	4.5	168.3 ✓
5' N	7.8	165.0 ✓
9' ✓	5.3	167.5 ✓
20'	5.4	167.1 ✓

185' E

S Cb	4.3	168.5 ✓
S.L	4.0	166.8 ✓

Cross Section Alley Block 46 Shermans Act
 Between 241st and 241st St
 From 22nd to 241st St

20' wide

8.24.45
 51.52
 65
 Northward

B.M.	0.50	76.45	75.95	NE corner of lot
T.P.	3.31	68.17	71.64	68.17
		0.10 = E. 22nd St	64.81	
S.L. Top Carb		2.91	65.21	Top Carb
2		2.92	65.20	Top Pavmg
N.L. Exposed		1.80	66.32	Top
		15' E		
N.L.		1.70	66.4	
2		2.9	65.2	
4.6		3.5	64.6	
2		3.4	64.7	
S.L.		3.7	64.4	
		55' E		
S.L.		4.9	63.2	
2		4.2	63.8	
4.5		4.1	64.0	
N.L.		3.4	64.7	
4.2.3 @ Garage Dirt Floor		2.8	65.3	
		83' E		
N.L.		3.8	64.3	
2		4.6	63.5	
S.L.		5.1	63.0	
4.3.8 @ Garage Dirt Floor		5.1	63.0	
		110' E		
3.5 " " " "		5.1	63.0	
S.L.		5.1	63.0	
2		5.0	63.1	

Plotted on profile 8.2.45 CAT
 Res. # 24077 Dec 74 w

68.12

4.6		4.8	63.3	
N.L.		4.5	63.6	
4.11 @ Garage Dirt Floor		3.6	64.5	
		150' E		
N.L.		4.2	63.9	
4		5.0	63.1	
2		5.0	63.1	
S.L.		5.2	62.9	
		190' E		
S.L. @ Garage Dirt Floor		5.7	62.4	0.16.02
4.2		5.4	62.7	
2		5.1	63.0	
N.L.		5.1	63.0	
4.3 @ Garage Dirt Floor		4.6	63.5	
		235' E		
3.5 Garage Dirt Floor		5.2	62.9	
N.L.		5.2	62.9	
2		5.5	62.6	
S.L.		5.5	62.6	
		263' E		
2		5.6	62.5	
4.3		5.8	62.3	
2		5.6	62.5	
N.L. @ Garage Dirt Floor		5.6	62.5	

307 E

NL	Co Garage Dirt Floor	6.25	61.87	
2		6.5	61.6	
+3		6.6	61.5	
SL		6.3	61.8	
	355' E			
SL		7.0	61.1	
12	Co Garage Dirt Floor	7.05	61.07	2' in Alley
2		7.3	60.8	
NL		7.0	61.1	
	370' E			
NL		7.0	61.1	
+7		7.4	60.7	
2		7.5	60.6	
+5		7.5	60.6	
+7		7.1	61.0	
SL		7.0	61.1	
	390' E			
SL		7.3	60.8	
+2		7.3	60.8	
+4		8.1	60.0	
2		8.1	60.0	
+5		8.0	60.1	
+9		6.8	61.3	
NL		6.8	61.3	

404 E

NL		6.8	61.3		
+1		6.8	61.3		
+5		8.7	59.4		
2		8.9	59.4		
+4		9.1	59.0		
+8		7.5	60.6		
SL		7.2	60.8		
	408.4 = N line 24' x 54'				
SL Top Carb		9.47	58.65		
2 in Paving		9.66	58.50		
NL in Carb		8.85	59.27		
TP	7.02	66.89	8.85	59.67	NE Co-19' x 46.5'
SM			8.41	62.88	62.88

Cross Section Alley Blk 193 Univ. Hgts.
 Between Louisiana + Texas 20' N. de
 From University to Lincoln St.

BM	0.70	313.63	3169.3	3P N.W. Co. University, Texas
T.P.	9.25	315.92	746	306.17
		0.10 = N. side Univ.		
N.L.		9.17	306.25	
Z		9.40	306.02	
EL		8.19	307.23	
		5' N		
EL		6.7	308.7	
+5		7.7	307.7	
Z		7.7	307.7	
+5		8.1	307.3	
N.L.		6.8	309.2	
		18' N		
N.L.		5.7	309.7	
Z		5.6	309.8	
+6		5.4	310.0	
EL		4.8	310.6	
		50' N		
EL		5.0	310.4	
Z		5.0	310.4	
N.L.		5.4	310.0	
		95' N		
N.L.		5.4	310.0	
Z		4.9	310.3	
EL		4.8	310.6	
+3.5	Cent Garage 2nd floor	4.5	310.57	

PLOTTED ON PROFILE 9-3-25 A.G.W.

315.42

70' N. de

8.17.25
 5.15.27
 3.15.28
 Northern

57

		11.6' N		
-3	Garage Dirt	2.5	311.9	
EL		4.1	311.3	
+7		5.0	310.4	
Z		4.9	310.5	
N.L.		5.1	310.3	
		150' N		
-7		6.0	309.4	
N.L.		5.3	310.1	
+3		4.8	310.6	
Z		4.8	310.6	
+3		4.7	310.7	
EL		5.6	311.8	
		189' N		
-4	Garage Conc. Floor	3.8	312.24	
-2	Garage Appro.	3.56	311.86	
EL		3.8	311.6	
Z		4.6	310.8	
N.L.		4.8	310.6	
		205' N		
N.L.		5.1	310.3	
Z		4.8	310.6	
+4		4.7	310.7	
EL		4.0	311.4	
T.P.	4.92	316.04	4.30	311.72
		244' N		
-3	Garage Conc. Floor	4.30	311.74	on line

316.04

EL on Conc Apron 4.9 311.35

± 5.0 311.0

M.L. 5.6 310.4

300'N

M.L. 5.8 310.8

± 5.0 311.0

E.L. 4.6 311.4

355'N

-3.0 Cen Garage Conc Floor 4.89 311.75

E.L. Conc Apron 4.78 311.26

+6 5.7 310.3

± 5.7 310.3

M.L. 6.8 309.8

392'N

M.L. 6.8 309.2

± 6.1 309.9

+7 Conc Apron 5.93 310.61

E.L. Cen Garage Conc Floor 4.83 311.21

431'N

E.L. Cen Garage Conc Floor 5.67 310.37

+2.5 Conc Apron 6.07 309.97

± 6.2 309.7

+7 6.7 309.3

M.L. 6.8 309.2

414'N
Cen Garage
Conc Floor
4.54 M.L.
4.9 - 309.74

316.04

452'N

-10 Cen Garage Conc Floor 7.05 308.99

M.L. Conc Apron 7.06 308.98

± 6.6 309.4

E.L. 6.8 309.8

491'N

E.L. Cen Garage Conc Floor 6.1 309.9

± 6.3 309.7

M.L. 6.7 309.6

520'N

M.L. 5.9 310.1

± 6.1 309.9

+6 6.0 310.0

E.L. 5.7 310.3

542'N

+4 Cen Garage Conc Floor 5.16 310.88

E.L. 5.4 310.6

+0.5 Conc Apron 5.44 310.60

± 5.5 310.5

M.L. Cen Garage Conc Floor 5.6 310.4

T.P. 1.75 312.55 5.47 310.57

580'N

-7 Cen Garage Conc Floor 8.9 309.7

M.L. 8.4 310.2

± 8.7 310.4

± 8.8 310.4

E.L. 8.0 310.6

Alley Blk 799 Univ. Heights

H/ 312.55

80' N. side

590' N

EL	1.5	311.1
+4	2.0	310.6
Z	2.3	310.3
+6	2.3	310.3
+8	1.7	310.9
N.L.	1.7	310.9

600' N

N.L.	2.1	310.5
+2	2.3	310.3
+4	3.0	309.6
Z	3.0	309.6
+4	2.8	309.8
EL	2.0	310.6

604' N

EL	2.2	310.3
+2	2.6	310.0
+6	2.4	309.2
Z	2.4	309.2
+6	2.7	308.9
+8	2.8	309.8
N.L.	2.8	309.8

609' N = 10' S So. Carb. Lincoln St

N.L. Top Carb	5.0	307.53
Z	4.4	308.2
EL Top Carb	3.95	308.60

69

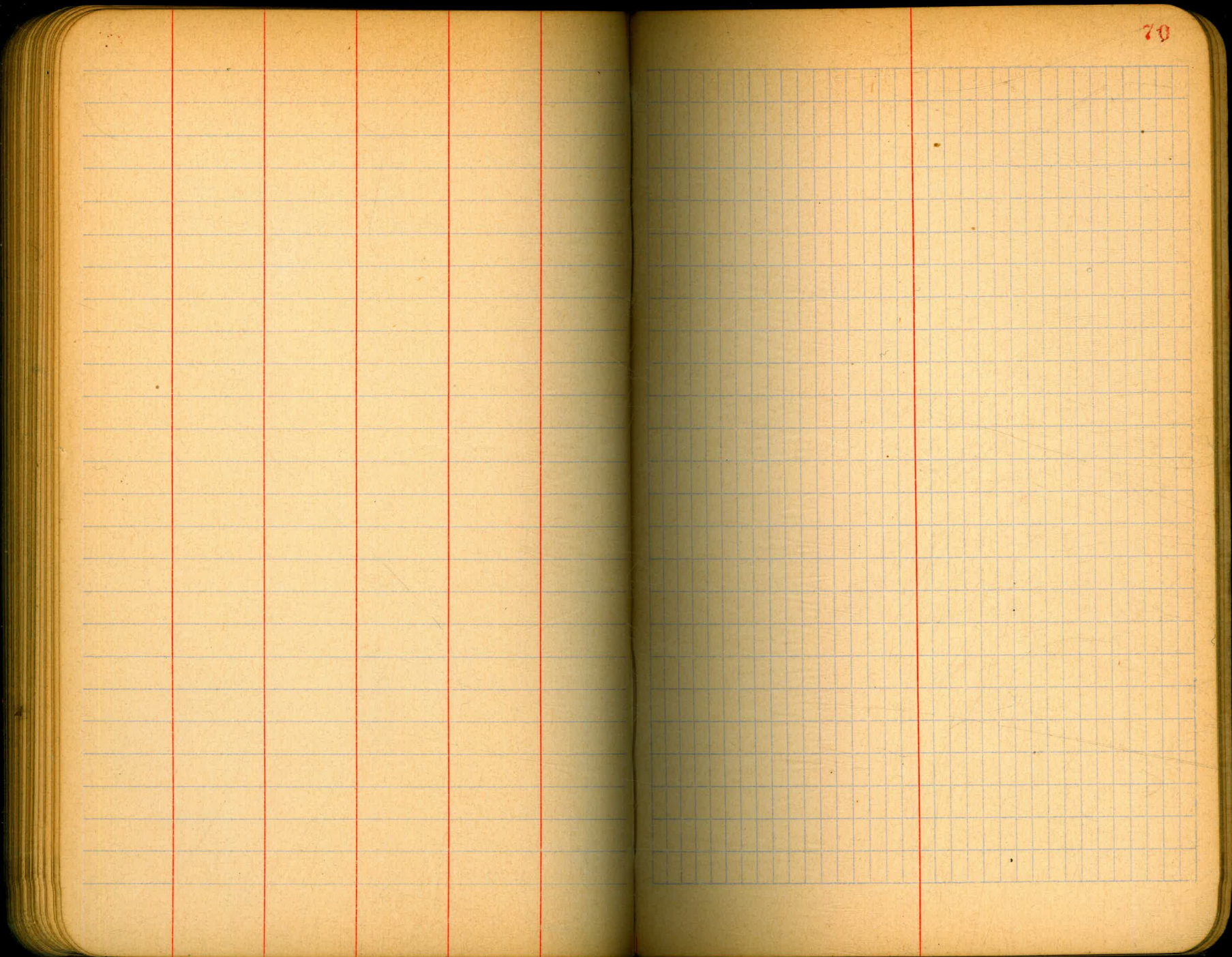
H/ 312.55

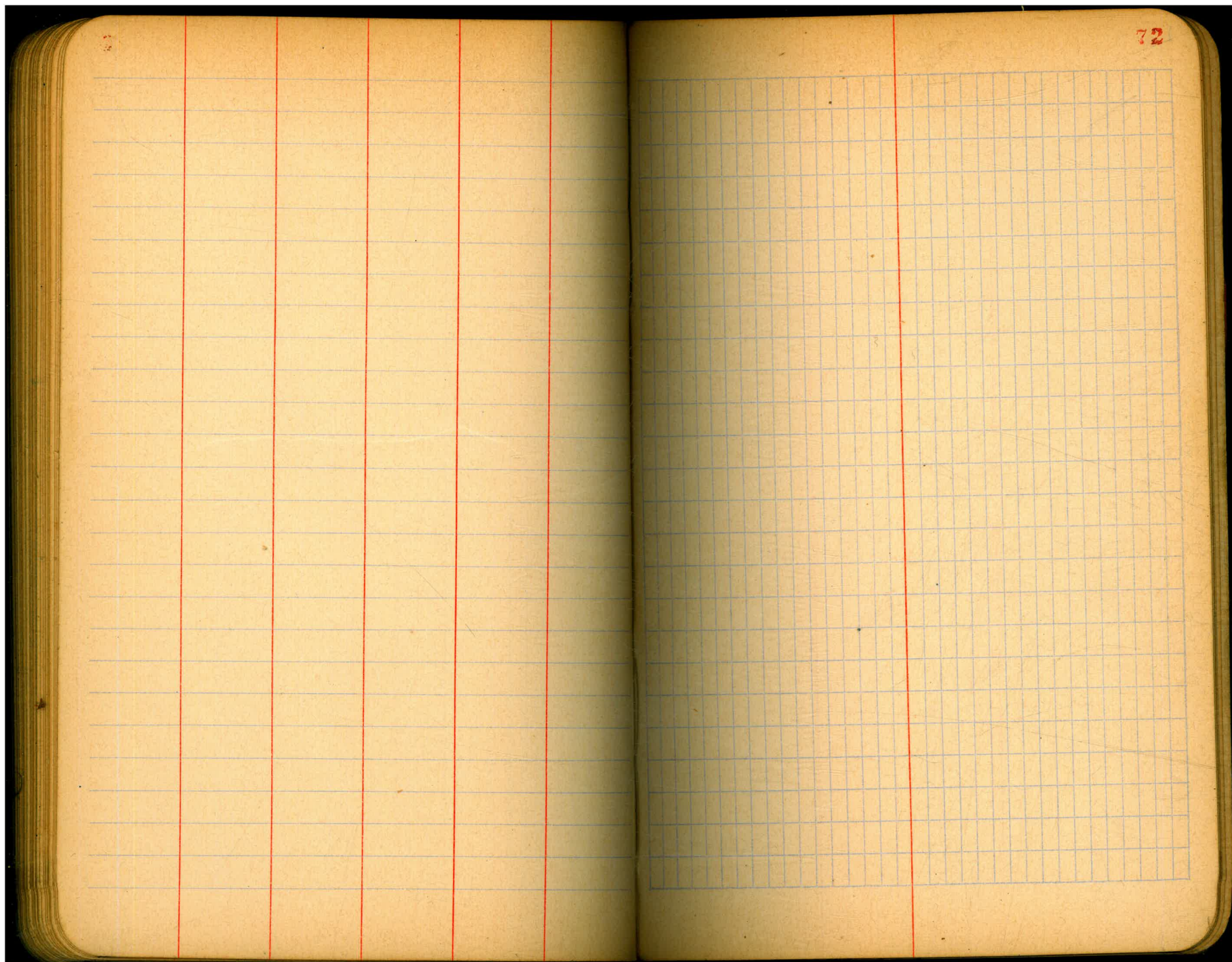
619' N. Edge Corp. Gutter S. side Lincoln

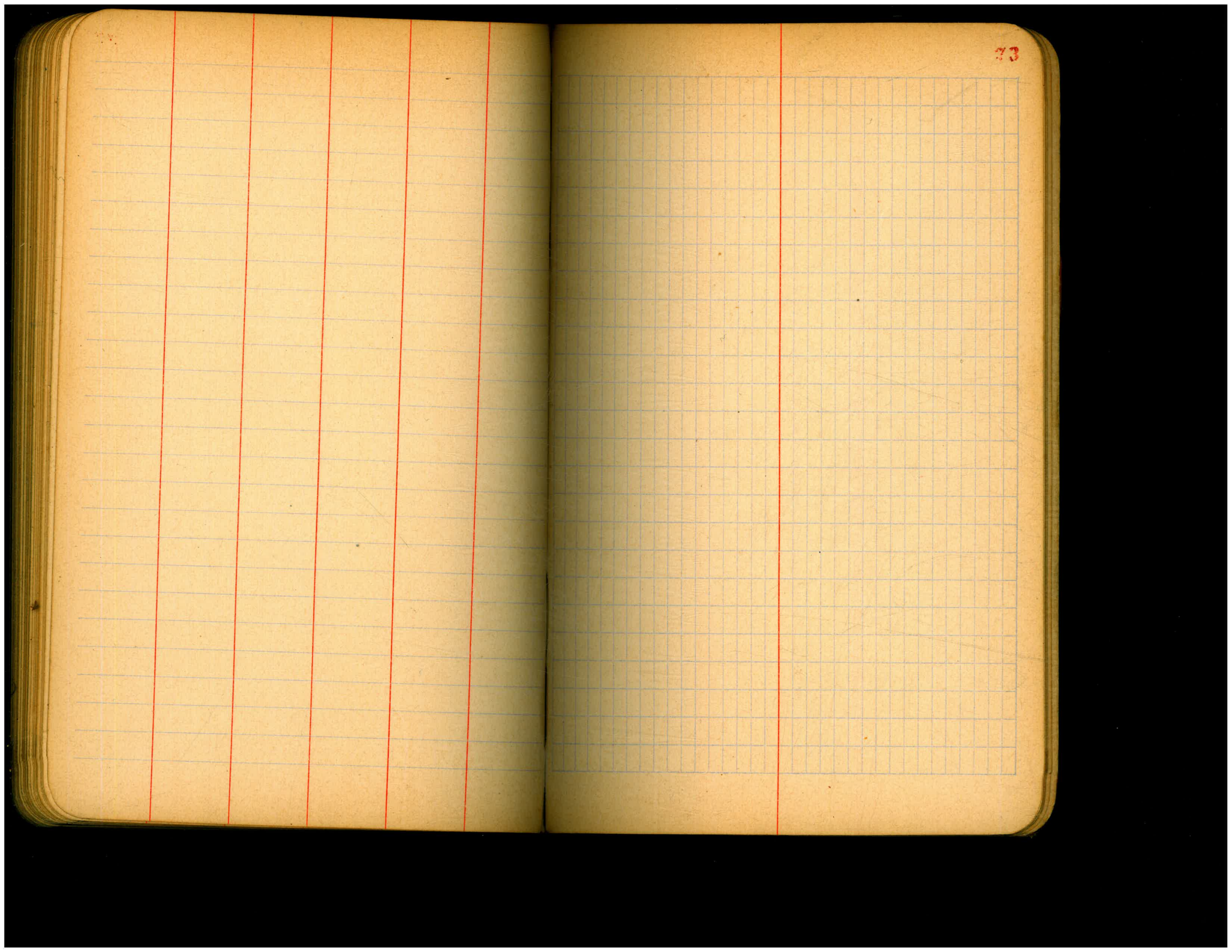
EL		4.74	307.81	
Z		5.32	307.23	
N.L.		5.85	306.70	
+8	9.2	320.04	1.69	310.86
BM		3.18	316.86	

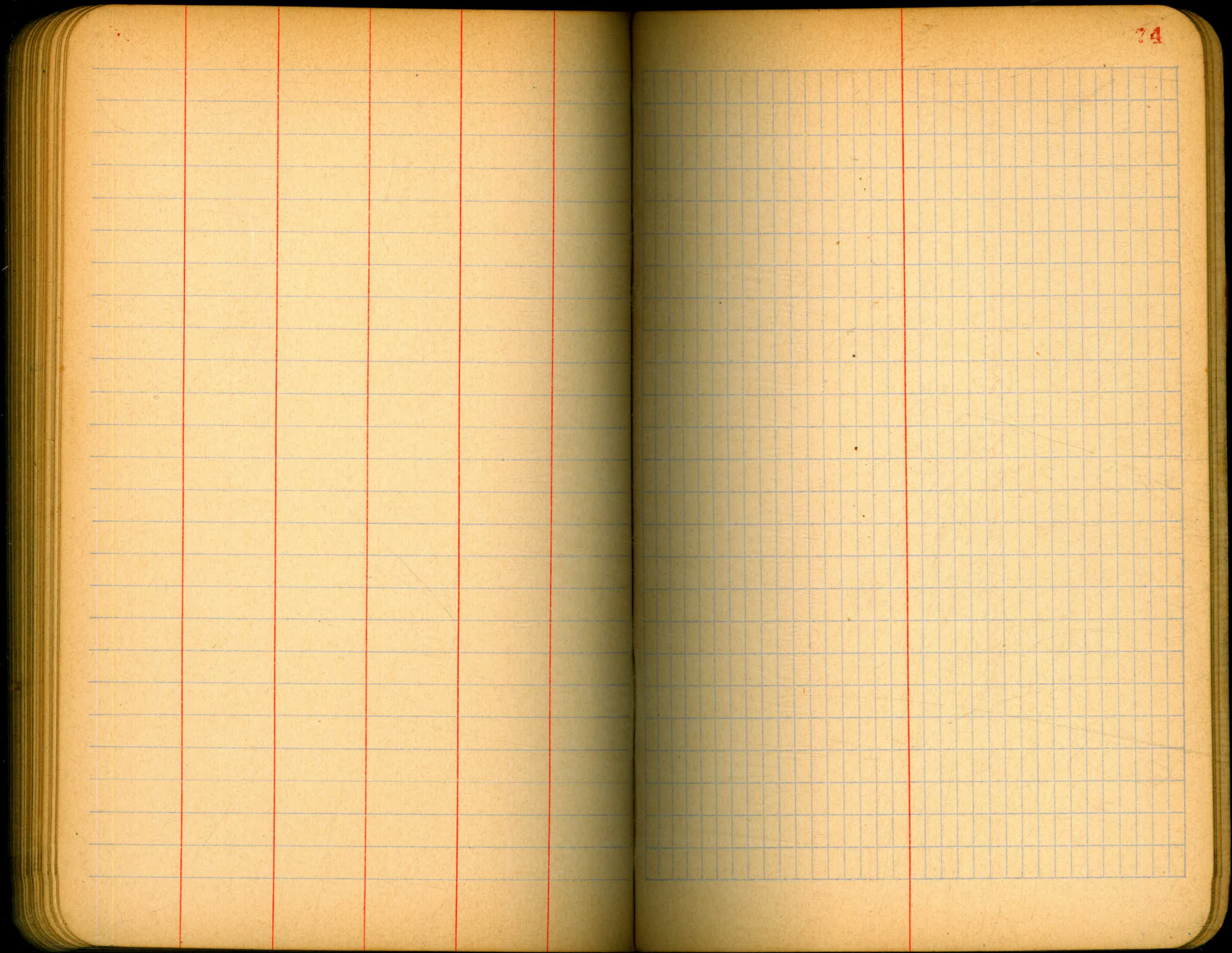
895' E Cor

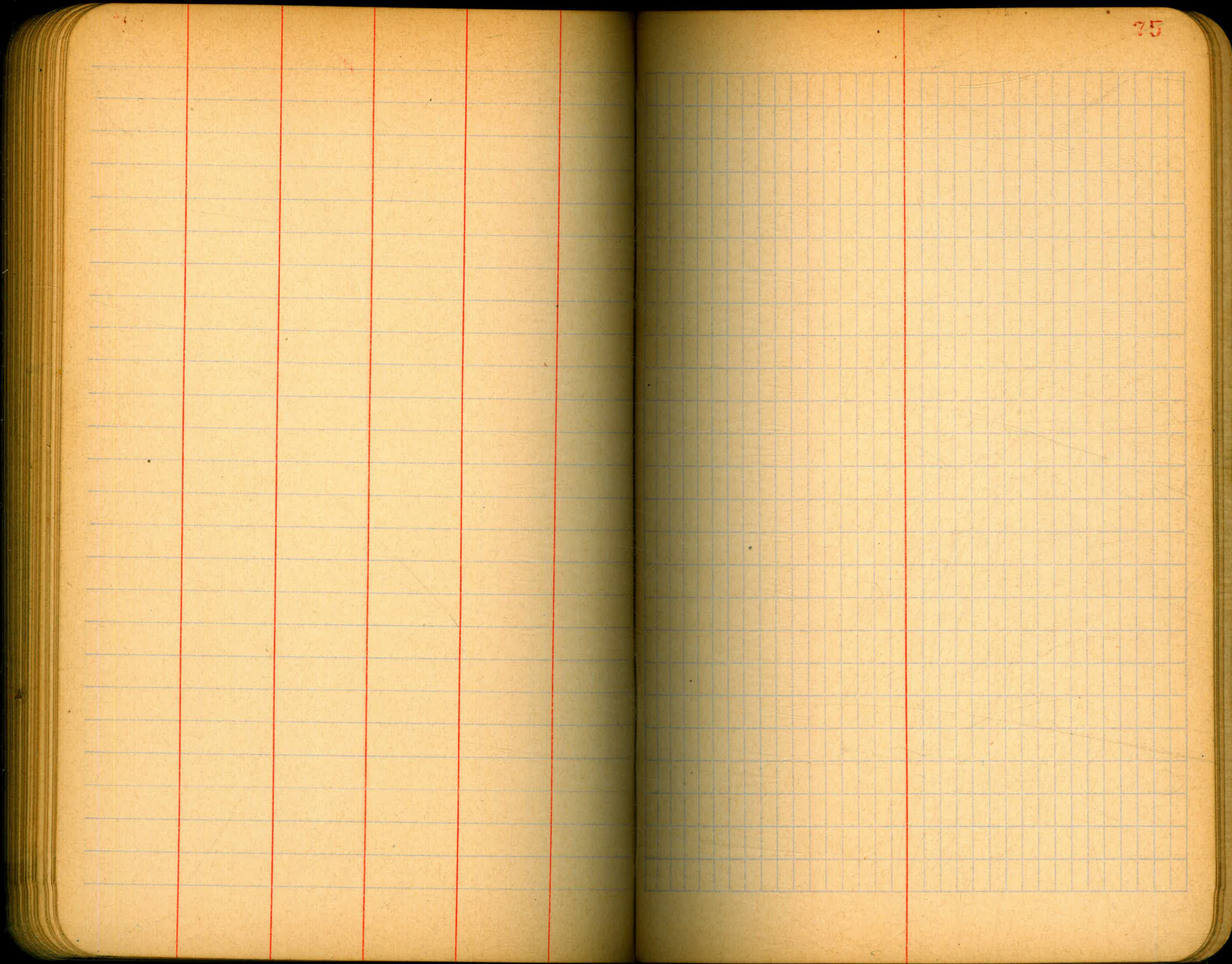
Texas Lincoln

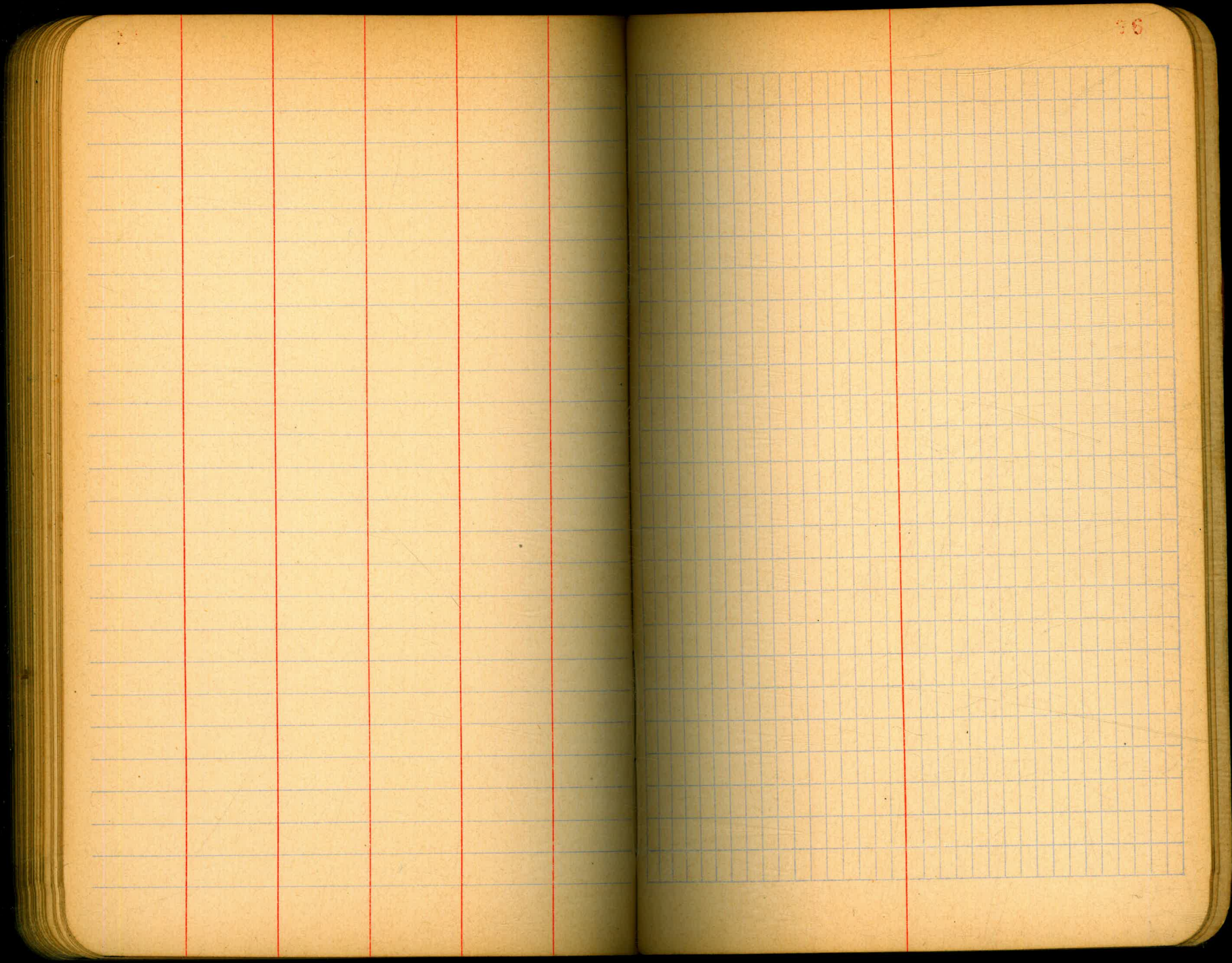


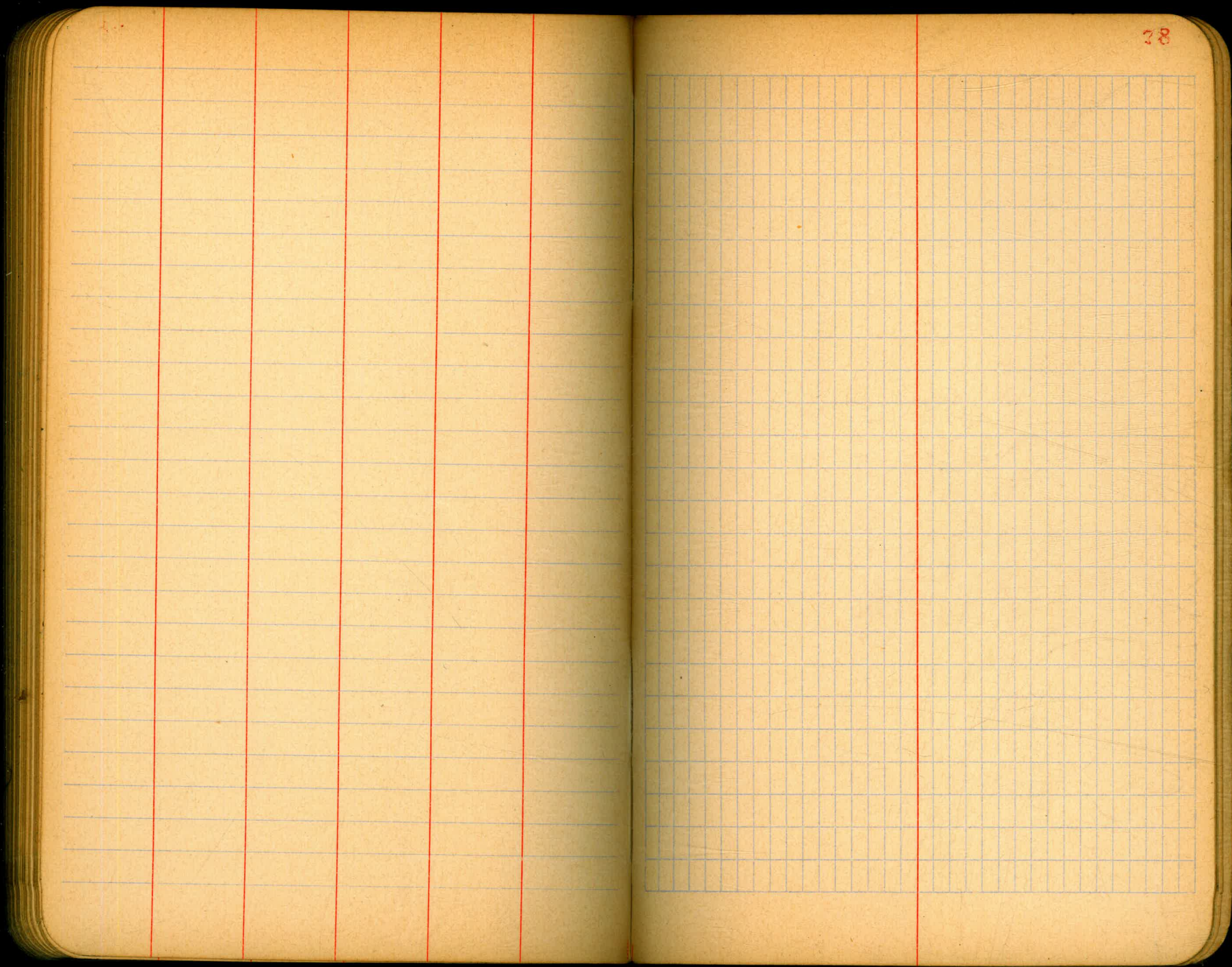












28

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P.= $23^{\circ} 20'$ to the R. at Station
542+72.

Ext. in Tab. IV opposite $23^{\circ} 20'$ =120.87
 $120.87+12=132.87$. Say a 10° Curve.

Tan. in Tab. IV opp. $23^{\circ} 20'$ =1183.1
 $1183.1+10=1193.1$.

Tab. V. correction for A. $23^{\circ} 20'$ for a 10° Cur.=0.16
 $1193.1+0.16=1193.26$ =corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. $23^{\circ} 20'$ = $23.33^{\circ}+10=33.33^{\circ}$ =L. C.

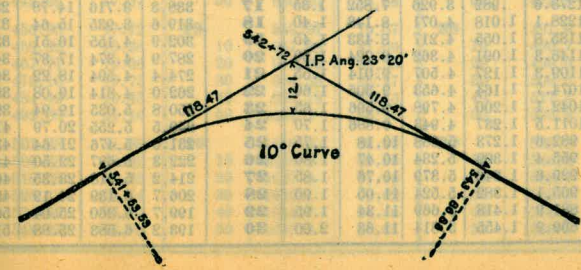
$2^{\circ} 19\frac{1}{2}'$ =def. for sta.	542	I. P.=sta.	542+72
$4^{\circ} 49\frac{1}{2}'$ = " " "	+50	Tan.=	1.18.47
$7^{\circ} 19\frac{1}{2}'$ = " " "	543	B. C.=sta.	541+53.53
$9^{\circ} 49\frac{1}{2}'$ = " " "	+50	L. C.=	2.33.33
$11^{\circ} 40'$ = " " "	543+	E. C.=sta.	543+86.86
	86.86		

$100-53.53=46.47 \times 3'$ (def. for 1 ft. of 10° Cur.)= $139.41'$ -
 $2^{\circ} 19\frac{1}{2}'$ =def. for sta. 542.

Def. for 50 ft.= $2^{\circ} 30'$ for a 10° Curve.

Def. for 36.86 ft.= $1^{\circ} 50\frac{1}{2}'$ for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER Co., New York, N. Y.)



656
 15
 27
 47
 65
 74
 76
 86
 86
 105
 106
 125
 136

97 @ 100
 97 @ 136

29868 E7 R10
 To 13' Miss

.27
 .13
 OK

250
 1250
 6379
 23608
 1649.87



300 / 2500 (83) 2165
 2400

1392
 1991

1392
 1392
 2784
 12628
 4176
 1392
 1937664

1991
 1991
 17919
 1991
 3964081
 1937664
 5901945

109
 58
 167
 2439

44 / 1760
 482 / 964
 184 / 453

1900
 1658
 2500
 2475
 120

06909
 50
 345480

43
 50
 58
 60
 80

47
 40
 10
 12
 15
 20
 25
 30
 35
 40
 45
 50
 55
 58
 52

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.