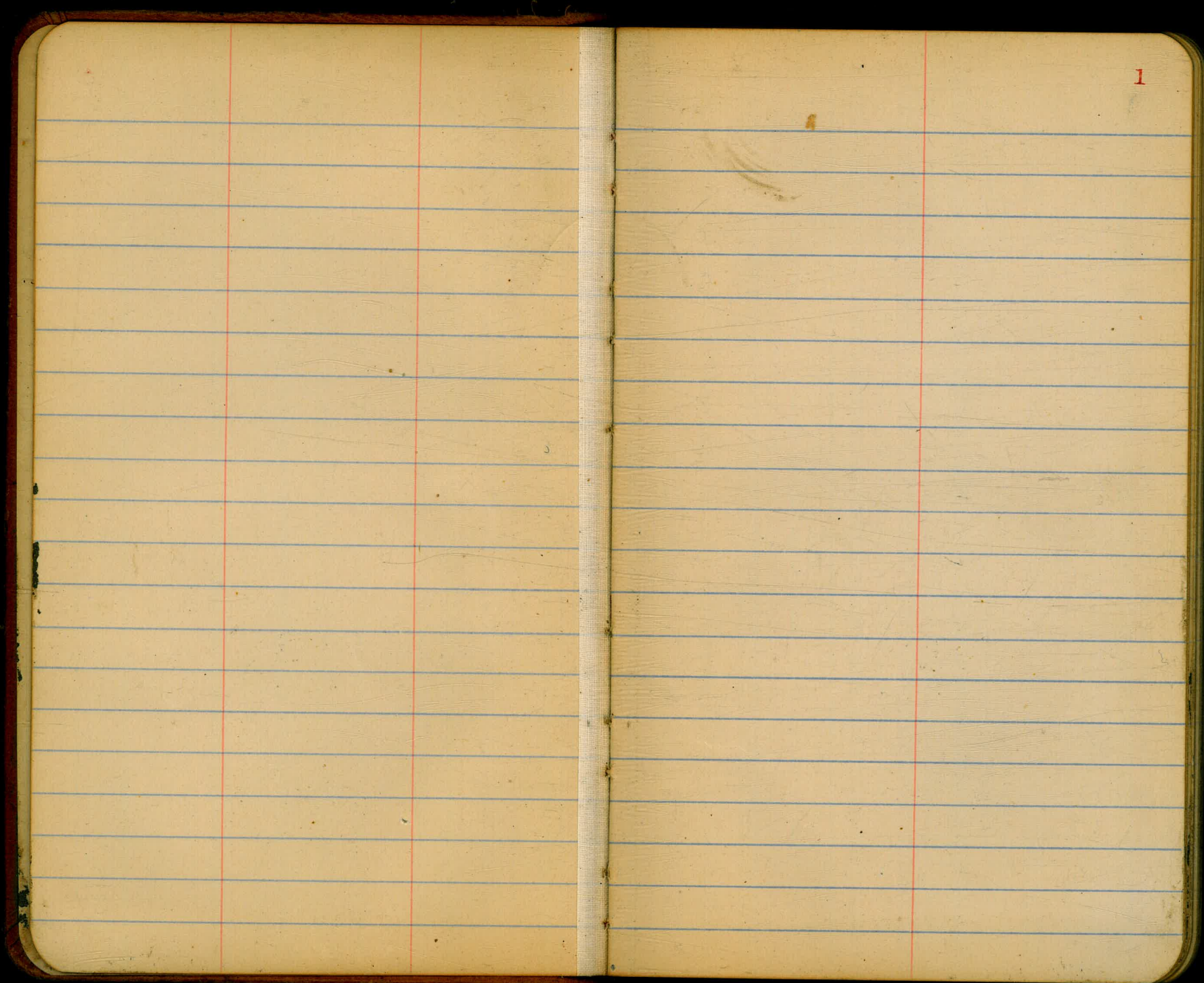


1007
Mean High Tide Line
Lautel st To U.S.M.R

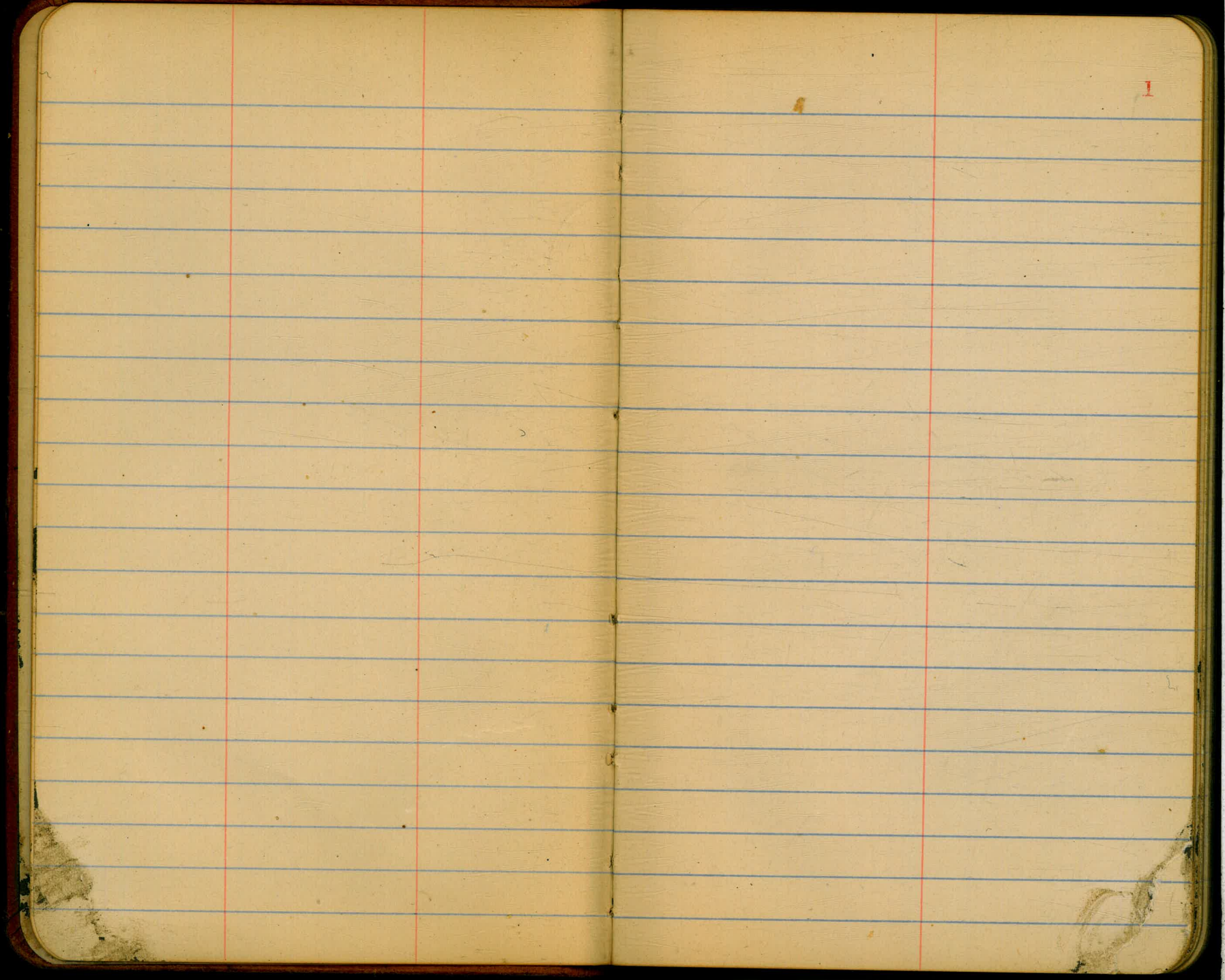
TRANSIT-BOOK
1309

MICROFILMED
DEC 17 1964

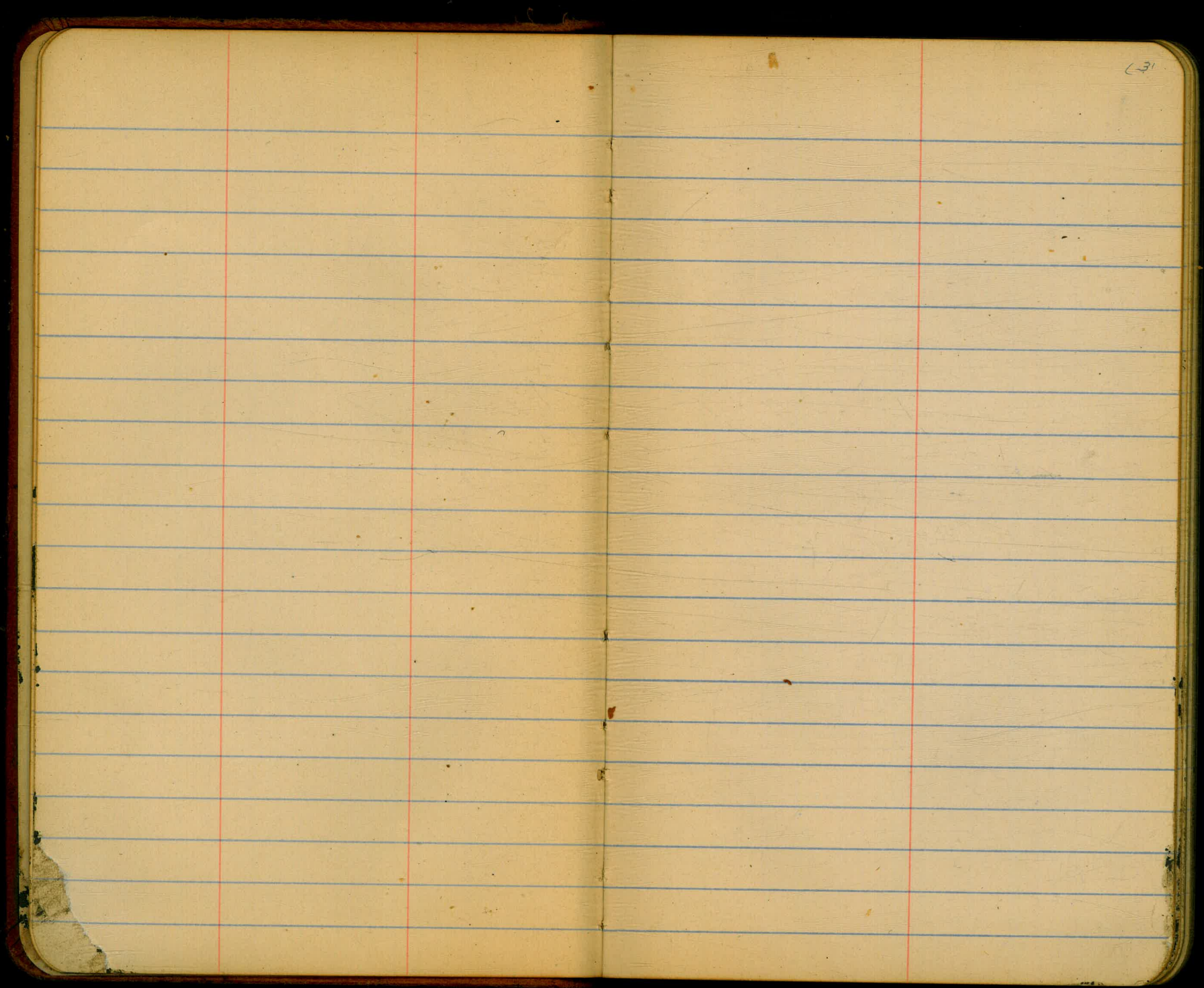
466.08



1



1



31

H Mean high tide line from sta H 30 to sta H 101 or intersection
of U.S.M.R. Line - Using Jarmans pts with slight changes in
measurements & angles - measurements in circles are Jarmans
and angles
all pts set at elev. of 2.00 Govt Datum
4' x 4' x 3' Redwood hubs at all pts on H line

(542)
541.90

H 31 L 17° 29' 40" ✓

(597.94)
597.61

H 30 L 8° 45' 50"

N 18° 04' 20"

H 29

1/169
1/16 Bunker
Dunkle
Shaw
Bunker

5

△

146.81

177° 51'

△

154.00

W Nutmeg St

city non use of public utility st

city tie & utility

9' x 9' hub

790.6

182.00

2' x 2' hub

182.00

182.00

182.00

182.00

182.00

182.00

182.00

182.00

182.00

182.00

city manhole of wa. Calif. st

city tie & utility

(295)
89492

H 34 R 0° 45' ✓

(300)
69897

H 33 L 6° 00' 30" ✓

(60 01')

(516)
51595

H 32 R 3° 50' ✓

387.23

502.69

65.70

□

△

□

△

171.99
E Thorn St

80° 31'

91° 14' 30"

Redwood St
153.59

CITY MAP
East Line City St

6

CITY MAP
E. L. CALIF ST

CITY MAP
Redwood St

(940)
439.85

H 37 L 7° 09' 30" ✓

(7010)

(700)
398.76

H 36 L 8° 08' ✓

(334)
383.75

H 35 L 16° 25' ✓

3700.1

259.17

9703.4

4

5001.57

428.72

Amount of Kuntz

198.04

Field Station E.L.
Camp 05

(340)

339.59

H 40 R 16° 18' 30" ✓

(710)

709.78

H 39 R 5° 52' 40" ✓

(2180)

2180

H 38 L 7° 40' 20" ✓

(515)
514.90

H 42 L 37° 10' 20"

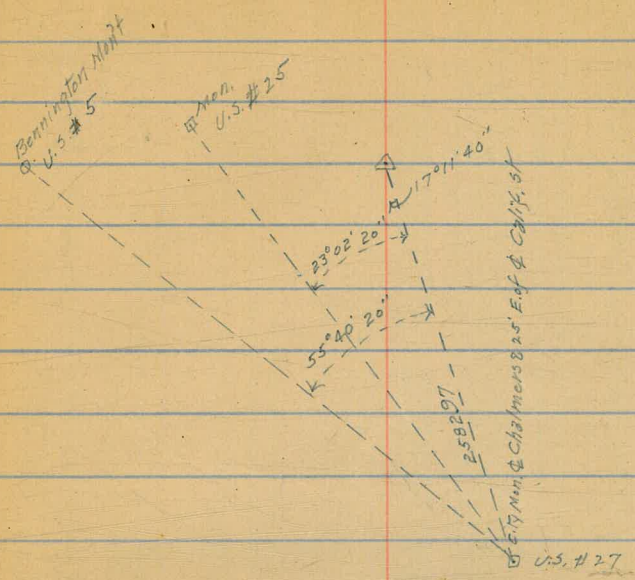
925
789.77

H 41 L 6° 24' 30"

B

11/17 Dunkle
Shan
Bunker

9



4750
47490

H 44 R 28° 29' 40"

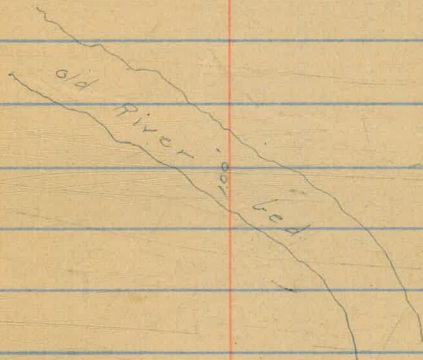
5680
56795

H 43 L 32° 15' 20"

574.9
573.90

H 46 P 22° 42' V

4800
4795



232

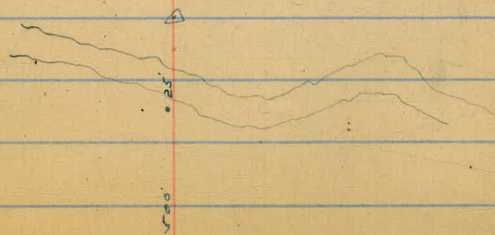
H 45 L 80° 10'

(987)
986.98

H 48 L 51° 19' 30"

(255)
253.92

H 47 R 30° 59' 40"

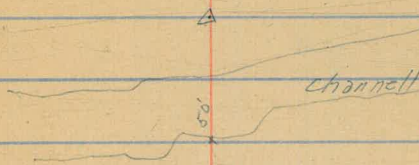


(403)
59283

H 50 R 100° 16' ✓

(342)
54182

H 49 R 63° 44' 20" ✓



225

580

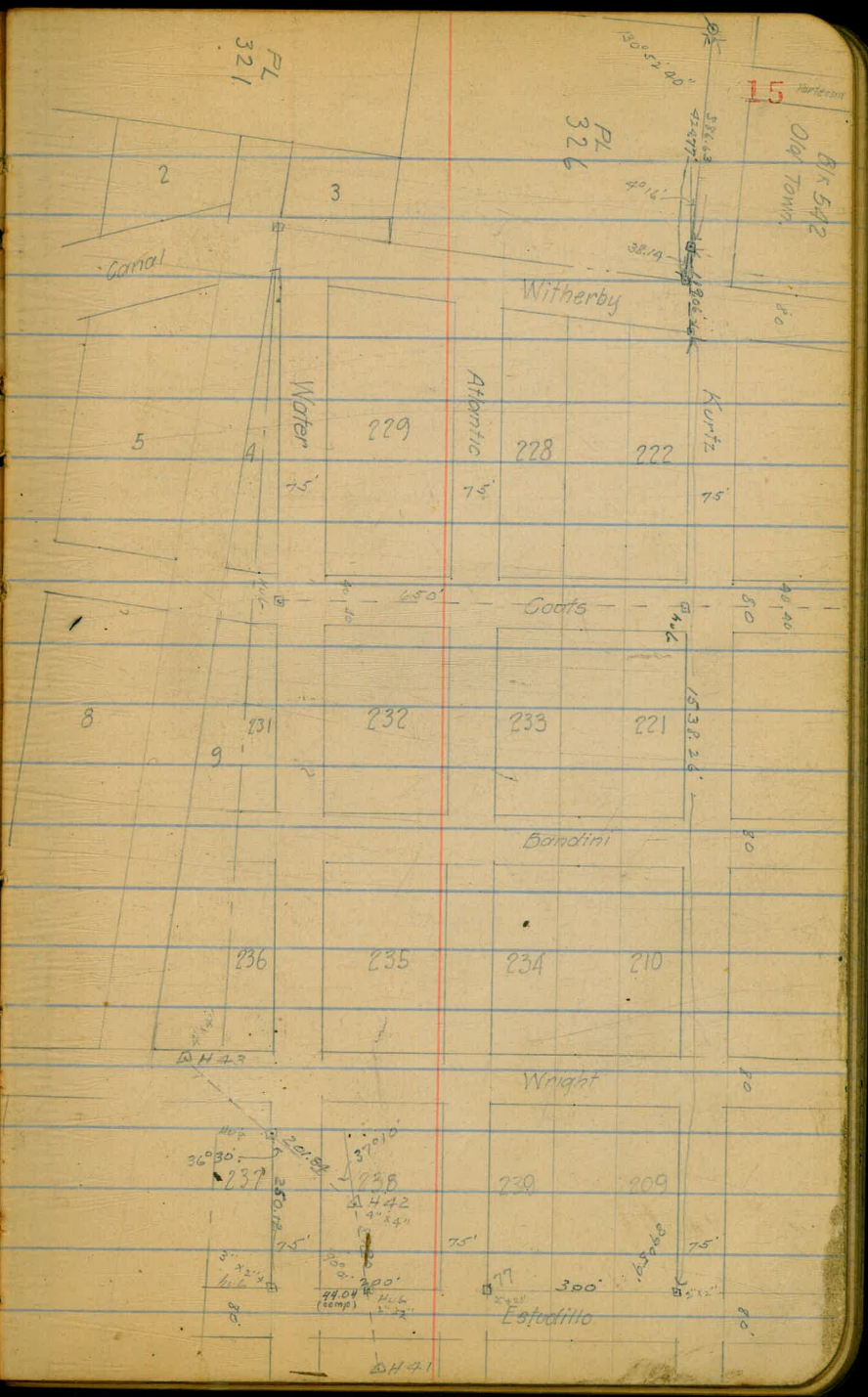
589
588B

H 52 L 93° 32' 30" ✓

542
541B535
183458

H 51 P 12° 48' ✓





(290)
28997

H 54 A $91^{\circ} 51' 30''$ ✓
(91° 52')

(1422)
144162

H 53 L $42^{\circ} 15'$ ✓

(301)
300.97

H 56 L 17° 40' 20" ✓

(800)
799.96

H 55 L 59° 46' 40" ✓

393
00828

H 58 L 35° 38' V

300
1888

H 57 R 34° 19' 30" V

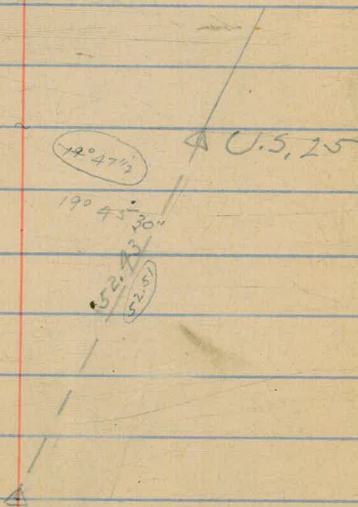
137.
136.97

H 60 P 36° 09' 30" ✓

139.
138.99

H 59 P 55° 34' 30" ✓

55° 36'

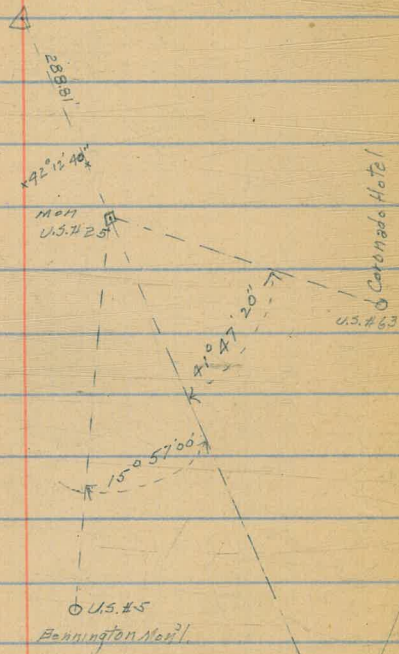


269.
268.90

H 62 L $45^{\circ} 24' 30''$ ✓
L $45^{\circ} 21'$

294.
294.00

H 61 R $93^{\circ} 45' 20''$ ✓



491
492.79

H 64 L 26° 10' ✓

510
509.85

H 63 L 28° 38' ✓

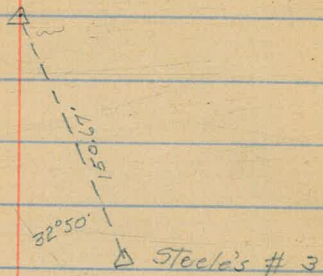
L 28° 40'

(195)
18892

H. 66 L $74^{\circ} 55' 40''$ ✓

(425)
40478

H 65 P $22^{\circ} 46' 30''$ ✓



(1000)
999.52

H 68 L 25° 49' ✓

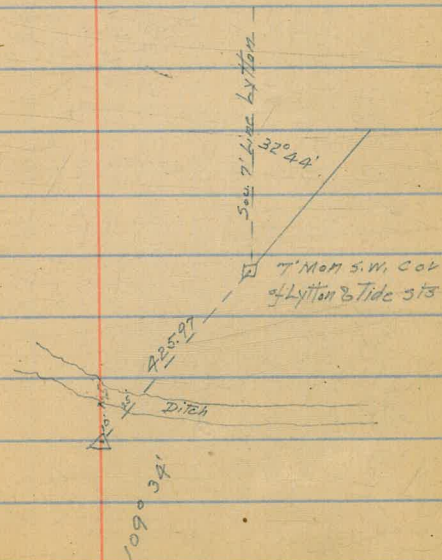
(210)
209.92

H 67 L 36° 20' 30"

23

S. L. James St
257.95
80° 07'
E. L. Tide
W. L. Tide
E. L. Staffer

116.36



1125'

112480

H 70 R 50° 11' 20" ✓

R 50° 11'

405'

40476

H 69 L 9° 24' 40" ✓

L 9° 25'

Lytton street

Street

Shafter street

BIK 309

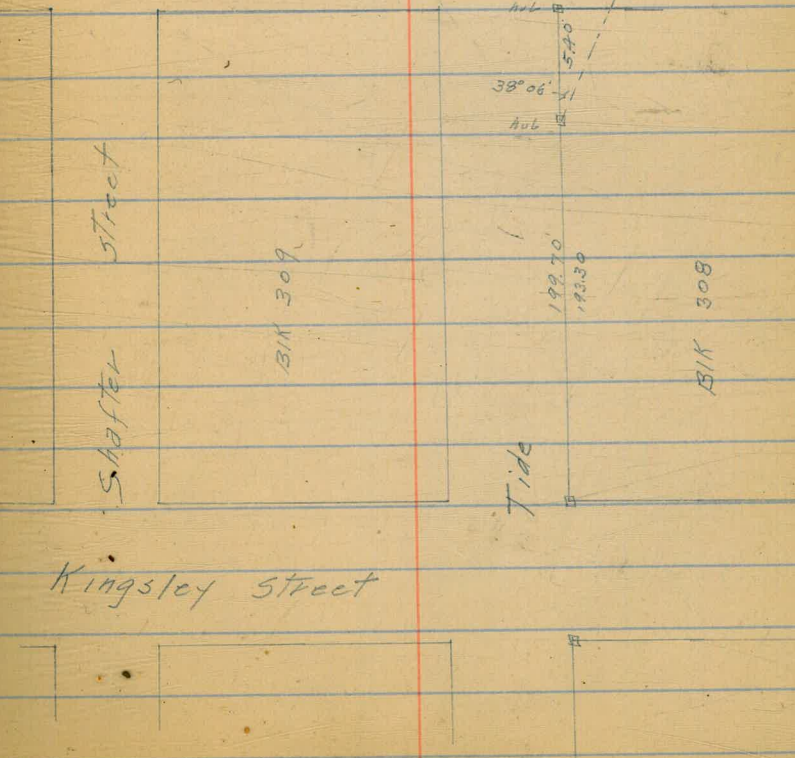
HL
570
38° 06'
HL

19270
19330

BIK 308

Tide

Kingsley street

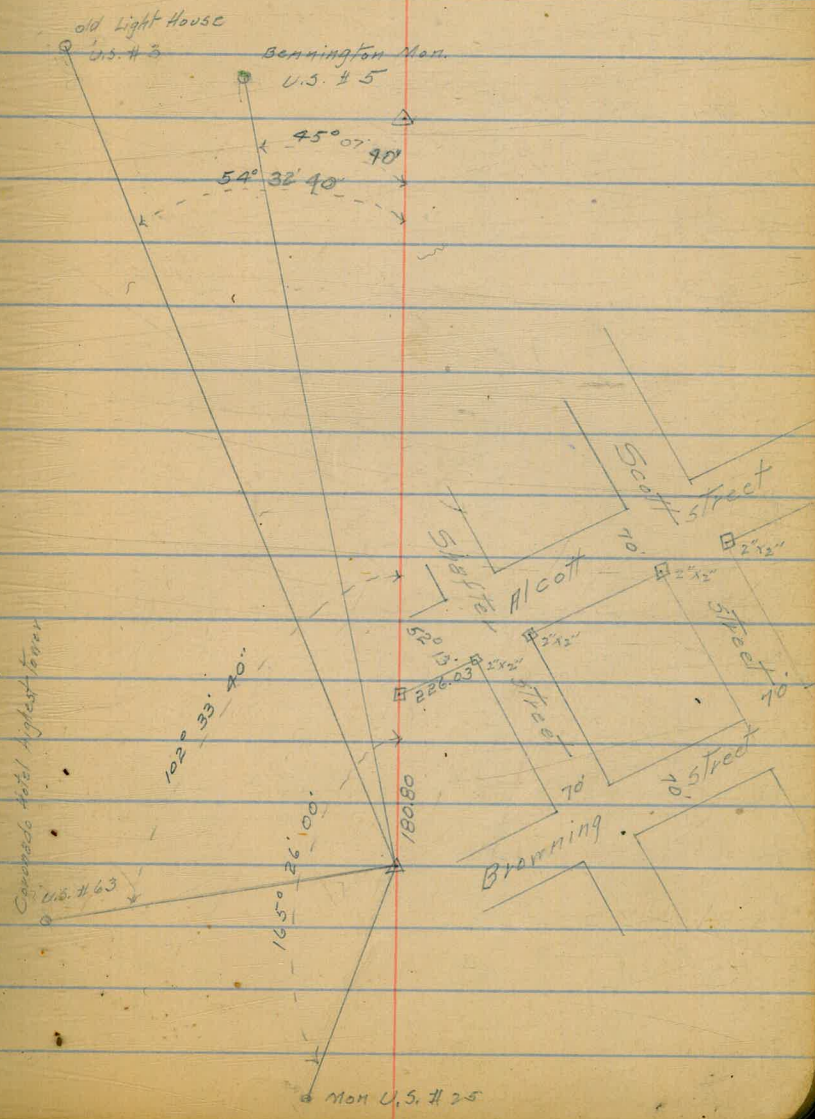


609
608.69

H 72 L 5° 55' 40" ✓

946
945.77

H 71 P 6° 59' 40" ✓



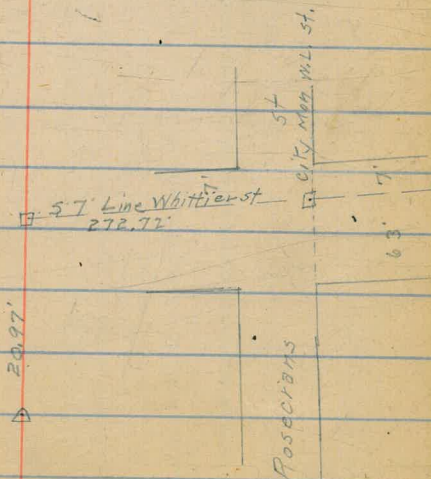
(383)
383.00 replaced

H 74 A $7^{\circ} 59' 20''$

(403)
403.00 replaced

H 73 L $24^{\circ} 09' 20''$ ✓

27



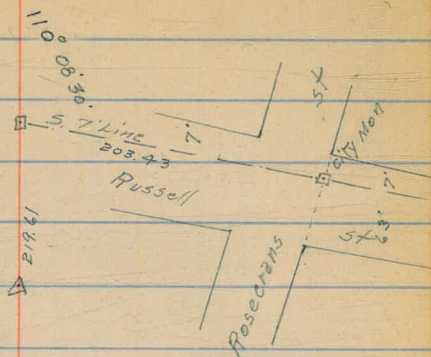
(353)
502.91

H 76 L 18° 41' 30"
L 18° 42'

(39700)
396.54

H 75 L 17° 09' 00"

22
08



(864)

863.73

H 78 P 22° 14' ✓

(238)

237.92

H 77 L 42° 26' 40" ✓

(L 42° 27')

(230)

230.00'

H 80 R 26° 50' 20"

(R 26° 50')

(290)

289.25'

H 79 R 17° 30' 30"

(392)

391.85

H 82 L 7° 41' V

(1275)

1274.59

H 81 R 25° 19' 30" V

△

60° 38'

□ Keats st
45.32'

□ city north Keats & Shopler

□ city north Keats & Scott

541.48

△

277.
276.93

H 84 $\angle 10^{\circ} 52'$
 $\angle 10^{\circ} 53'$

626.
625.81

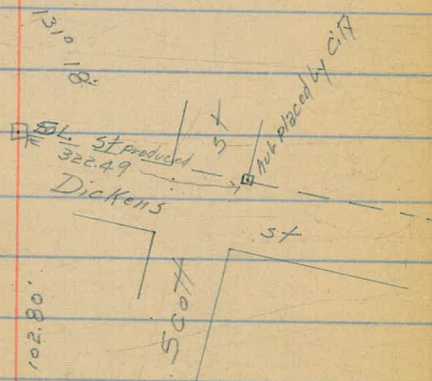
H 83 $\angle 38^{\circ} 23' 20''$

(381)
371.00 rep/used

H 86 P 20° 53' ✓

(365)
364.88

H 85 L 13° 41'



(602)

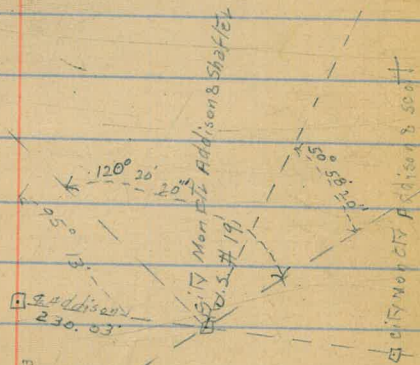
602.00 replaced

H 88 R 34° 05' ✓

(456)

456.00 replaced

H 87 R 15° 11' ✓

Crescent Hotel highest tower
O.U.S. # 63Bannington No. 1
U.S. # 5

O.U.S. # 230.53

O.U.S. # 19

337.32
337.551220.02
1220.04

(183)
183.00

H 90 L 5° 11' 40"

(L 5° 06')

(435)
434.31

H 89 R 2° 27' V

(R 2° 21')

300

300.00

H 92 L 17° 23' 20" ✓

638

637.71

H 91 L 4° 23' 20"

498'
497.88

H 94 L $8^{\circ} 40' 30''$ ✓

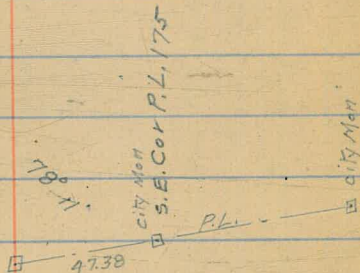
(L $8^{\circ} 41'$)

513

512.91

H 93 L $15^{\circ} 30'$ ✓

△



284.97

△

57600

H 96 R 91° 40' 30"

437
436.87

H 95 L 75° 45' ✓

1000
Perry 57
236.88

356.33'

city hall ctr. of
San Antonio & Perry

3
city hall ctr. of
San Antonio &
Perry

320
29959

H 98 L 15° 37' 20" ✓

L 15° 35"

37100

H 97 R 4° 29' 40"

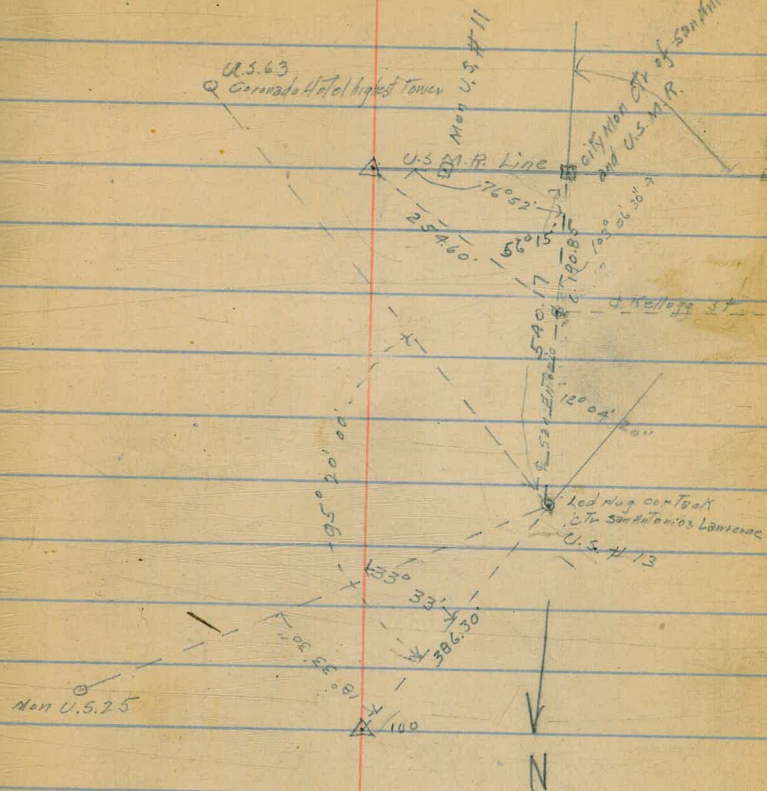
H 101 = Intersection U.S.M.R. Line

H 100

247.20
247.23

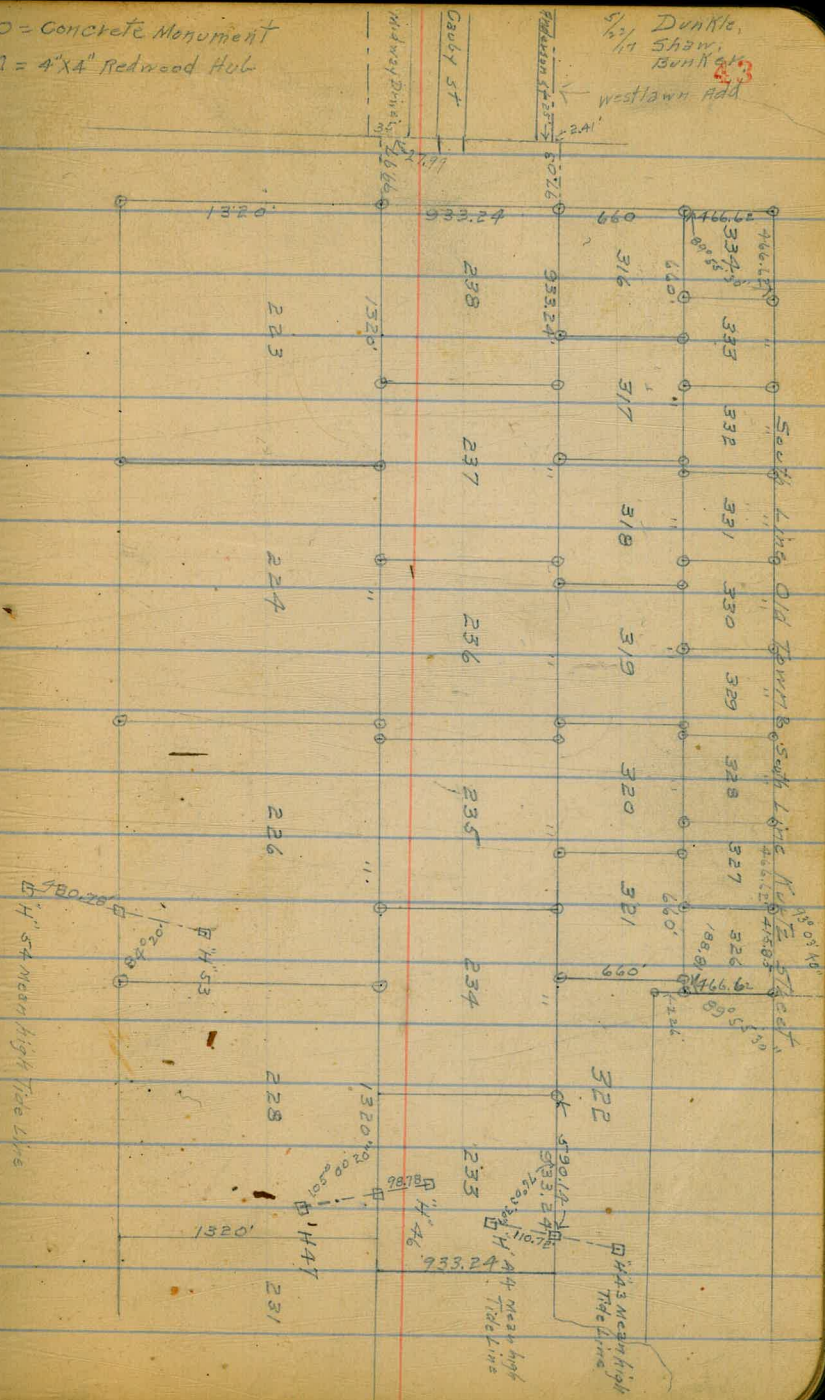
H 99 $\angle 29^{\circ} 35'$ V

17/16
Dunkle
Shaw
Bunker



○ = Concrete Monument
□ = 4"x4" Redwood Hub

1/2 Dunkle,
1/11 Shaw,
Bunkel
Westlawn Rd



32nd

ST

44

Measurement of Pix between 31st + 32nd &

Ivy + Juniper STS

295.30

137.20 to Alley Returns

138.10

3/20/76

Moore
Walker
Proctor
Stoe

New hub on line

old hub said by property
owner. No figure been set
years ago. he did not know
by whom.

140'



600'

14' sidewalks

16' sidewalks

Juniper

Ivy

398.25

31st

ST

1

45

51

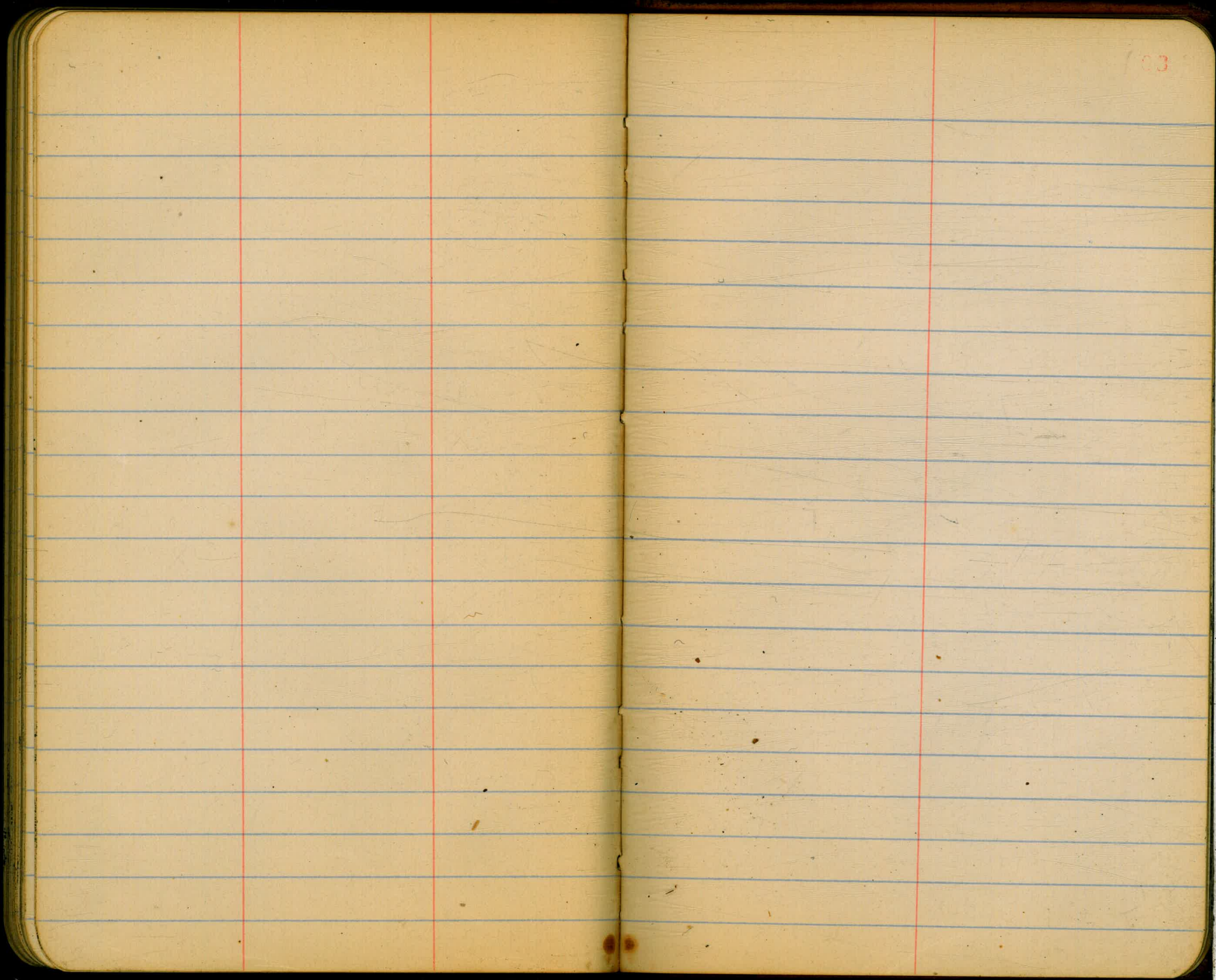
53

54

55

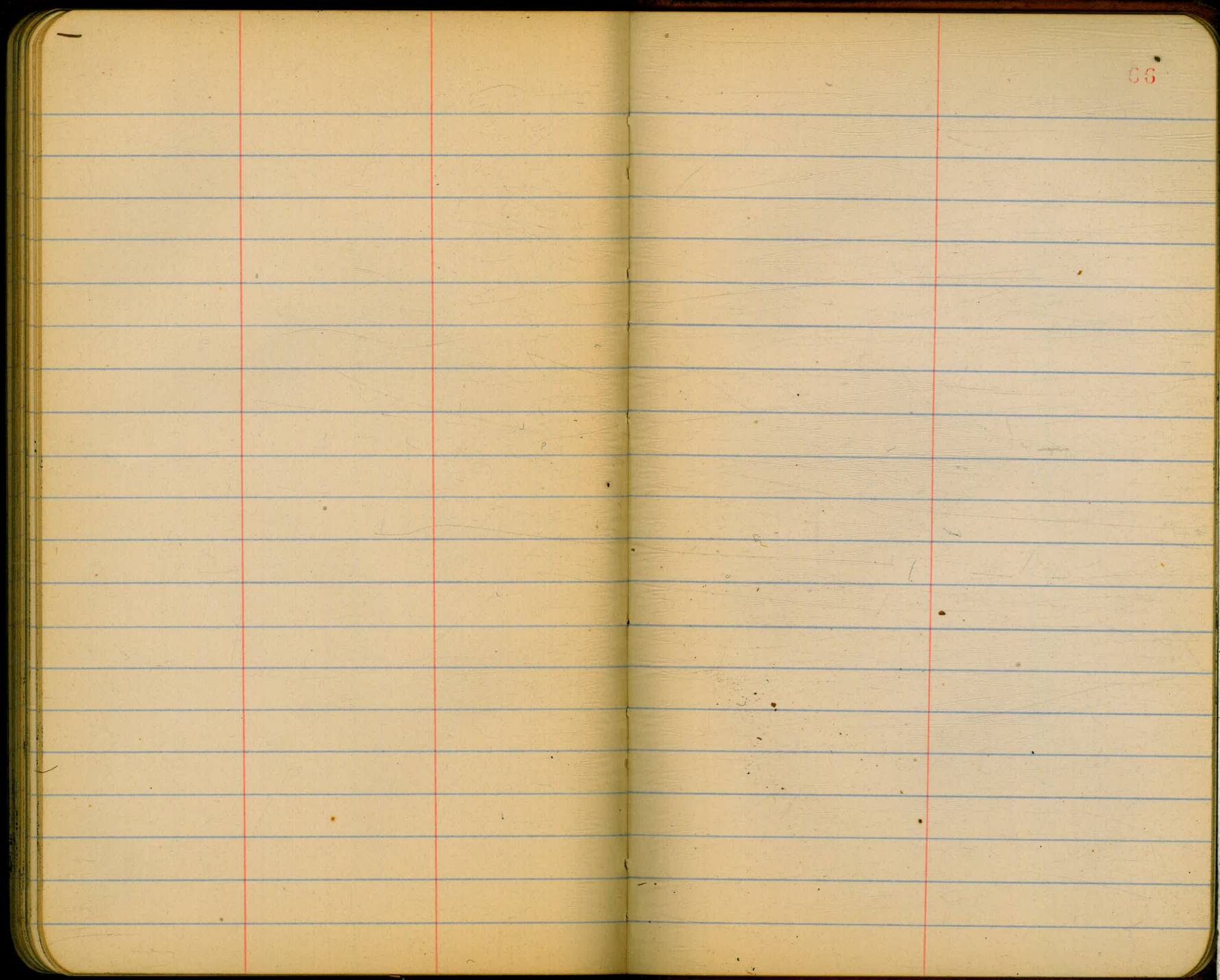
56

60



83

64



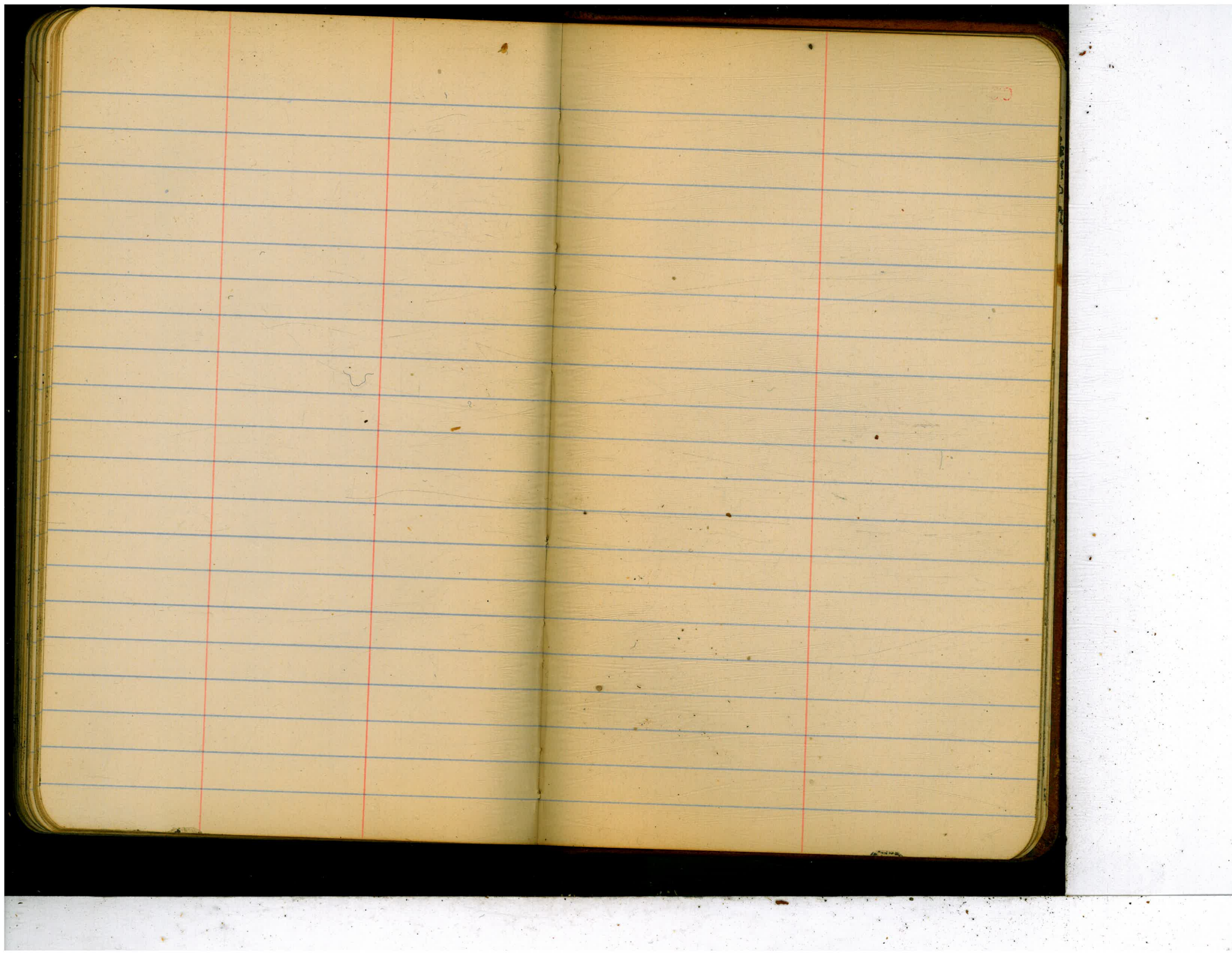


TABLE X.
MIDDLE ORDINATES OF RAILS
Length of Rail (feet)

| C o / | R Feet | 30 Inch | 28 Inch | 26 Inch | 24 Inch | 22 Inch | 20 Inch | C o | R Feet | 30 Inch | 28 Inch | 26 Inch | 24 Inch | 22 Inch | 20 Inch |
|----------|-----------|------------|------------|------------|------------|------------|------------|--------|-----------|------------|------------|------------|------------|------------|------------|
| 0-20 | 17189 | .08 | .07 | .06 | .05 | .04 | .03 | 8 | 716.8 | 1.88 | 1.64 | 1.42 | 1.20 | 1.01 | .84 |
| 0-40 | 8594 | .16 | .14 | .12 | .10 | .08 | .07 | 9 | 637.3 | 2.12 | 1.84 | 1.60 | 1.35 | 1.14 | .94 |
| 1-0 | 5730 | .24 | .20 | .18 | .15 | .13 | .10 | 10 | 573.7 | 2.36 | 2.05 | 1.78 | 1.50 | 1.27 | 1.04 |
| 1-20 | 4297 | .31 | .27 | .23 | .20 | .17 | .13 | 11 | 521.7 | 2.59 | 2.26 | 1.95 | 1.65 | 1.39 | 1.15 |
| 1-40 | 3438 | .39 | .34 | .29 | .25 | .21 | .17 | 12 | 478.3 | 3.83 | 2.47 | 2.15 | 1.81 | 1.54 | 1.26 |
| 2-0 | 2865 | .47 | .41 | .35 | .30 | .25 | .20 | 13 | 441.7 | 3.05 | 2.66 | 2.30 | 1.96 | 1.66 | 1.36 |
| 2-20 | 2456 | .55 | .48 | .41 | .35 | .29 | .23 | 14 | 410.3 | 3.30 | 2.87 | 2.48 | 2.10 | 1.78 | 1.46 |
| 2-40 | 2149 | .63 | .55 | .47 | .40 | .33 | .27 | 15 | 383.1 | 3.54 | 3.08 | 2.68 | 2.26 | 1.91 | 1.57 |
| 3-0 | 1910 | .71 | .62 | .53 | .45 | .38 | .31 | 16 | 359.3 | 3.76 | 3.28 | 2.83 | 2.40 | 2.04 | 1.67 |
| 3-20 | 1719 | .78 | .68 | .59 | .50 | .42 | .35 | 17 | 338.3 | 4.00 | 3.48 | 3.02 | 2.57 | 2.16 | 1.78 |
| 3-40 | 1563 | .86 | .75 | .65 | .55 | .46 | .38 | 18 | 319.6 | 4.21 | 3.67 | 3.18 | 2.70 | 2.28 | 1.87 |
| 4-0 | 1433 | .94 | .82 | .71 | .60 | .50 | .42 | 19 | 302.9 | 4.45 | 3.89 | 3.36 | 2.86 | 2.41 | 1.98 |
| 4-20 | 1323 | 1.02 | .89 | .77 | .65 | .55 | .45 | 20 | 287.9 | 4.70 | 4.09 | 3.55 | 3.00 | 2.54 | 2.09 |
| 4-40 | 1228 | 1.10 | .96 | .83 | .70 | .59 | .48 | 22 | 262.0 | 5.16 | 4.44 | 3.84 | 3.30 | 2.80 | 2.29 |
| 5 | 1146 | 1.18 | 1.03 | .89 | .75 | .63 | .52 | 24 | 240.5 | 5.64 | 4.92 | 4.20 | 3.59 | 3.04 | 2.50 |
| 6 | 955.3 | 1.41 | 1.23 | 1.06 | .90 | .76 | .62 | 26 | 222.3 | 6.07 | 5.29 | 4.58 | 3.88 | 3.29 | 2.70 |
| 7 | 819.0 | 1.65 | 1.44 | 1.24 | 1.05 | .89 | .73 | | | | | | | | |

TABLE XI.
SHORT RADIUS CURVES

| Radius Feet | Chord Feet | Central Angle | Deflection Angle | Deflection for 1 Foot |
|----------------|---------------|------------------|---------------------|--------------------------|
| 35 | 10 | 16-26 | 8-13 | 49.3 |
| 45 | 10 | 12-46 | 6-23 | 38.3 |
| 50 | 15 | 17-16 | 8-38 | 34.5 |
| 60 | 15 | 14-22 | 7-11 | 28.8 |
| 75 | 15 | 11-30 | 5-45 | 23.0 |
| 100 | 20 | 11-30 | 5-45 | 17.3 |
| 120 | 20 | 9-34 | 4-47 | 14.3 |
| 150 | 20 | 7-39 | 3-49 | 11.5 |
| 190 | 25 | 7-32 | 3-46 | 9.15 |
| 200 | 25 | 7-10 | 3-35 | 8.6 |
| 225 | 25 | 6-25 | 3-12 | 7.7 |
| 240 | 25 | 5-58 | 2-59 | 7.2 |
| 250 | 25 | 5-44 | 2-52 | 6.9 |
| 275 | 25 | 5-12 | 2-36 | 6.2 |
| 288 | 50 | 9-58 | 4-59 | 6.0 |
| 300 | 50 | 9-32 | 4-46 | 5.7 |
| 350 | 50 | 8-12 | 4-06 | 4.9 |
| 376 | 50 | 7-40 | 3-50 | 4.6 |
| 400 | 50 | 7-10 | 3-35 | 4.3 |
| 410 | 50 | 7-00 | 3-30 | 4.2 |

To find length of curve divide angle from P. C. to P. T. by central angle of chord, and multiply by length of chord.

TABLE XII.

INCLINED DISTANCE OF 100 FT. REDUCED TO HORIZONTAL

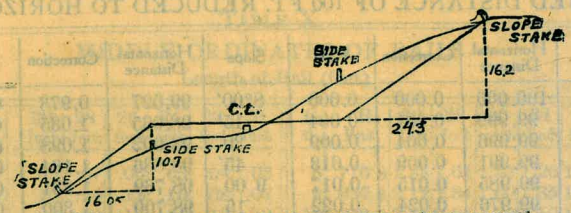
| Slope | Horizontal Distance | Correction | Rise | Slope | Horizontal Distance | Correction | Rise |
|-------|---------------------|------------|-------|-------|---------------------|------------|-------|
| 0°00' | 100.000 | 0.000 | 0.000 | 8°00' | 99.027 | 0.973 | 0.139 |
| 15' | 99.999 | 0.001 | 0.004 | 15' | 98.965 | 1.035 | 0.143 |
| 30' | 99.996 | 0.004 | 0.009 | 30' | 98.902 | 1.098 | 0.148 |
| 45' | 99.991 | 0.009 | 0.013 | 45' | 98.836 | 1.164 | 0.152 |
| 1 00 | 99.985 | 0.015 | 0.017 | 9 00 | 98.769 | 1.231 | 0.156 |
| 15 | 99.976 | 0.024 | 0.022 | 15 | 98.700 | 1.300 | 0.161 |
| 30 | 99.966 | 0.034 | 0.026 | 30 | 98.629 | 1.371 | 0.165 |
| 45 | 99.953 | 0.047 | 0.031 | 45 | 98.556 | 1.444 | 0.169 |
| 2 00 | 99.939 | 0.061 | 0.035 | 10 00 | 98.481 | 1.519 | 0.174 |
| 15 | 99.923 | 0.077 | 0.039 | 15 | 98.404 | 1.596 | 0.178 |
| 30 | 99.905 | 0.095 | 0.044 | 30 | 98.325 | 1.675 | 0.182 |
| 45 | 99.885 | 0.115 | 0.048 | 45 | 98.245 | 1.755 | 0.187 |
| 3 00 | 99.863 | 0.137 | 0.052 | 11 00 | 98.163 | 1.837 | 0.191 |
| 15 | 99.839 | 0.161 | 0.057 | 15 | 98.079 | 1.921 | 0.195 |
| 30 | 99.813 | 0.187 | 0.061 | 30 | 97.992 | 2.008 | 0.199 |
| 45 | 99.786 | 0.214 | 0.065 | 45 | 97.905 | 2.095 | 0.204 |
| 4 00 | 99.756 | 0.244 | 0.070 | 12 00 | 97.815 | 2.185 | 0.208 |
| 15 | 99.725 | 0.275 | 0.074 | 15 | 97.723 | 2.277 | 0.212 |
| 30 | 99.692 | 0.308 | 0.078 | 30 | 97.630 | 2.370 | 0.216 |
| 45 | 99.657 | 0.343 | 0.083 | 45 | 97.534 | 2.466 | 0.221 |
| 5 00 | 99.619 | 0.381 | 0.087 | 13 00 | 97.437 | 2.563 | 0.225 |
| 15 | 99.580 | 0.420 | 0.092 | 15 | 97.338 | 2.662 | 0.229 |
| 30 | 99.540 | 0.460 | 0.096 | 30 | 97.237 | 2.763 | 0.233 |
| 45 | 99.497 | 0.503 | 0.100 | 45 | 97.134 | 2.866 | 0.238 |
| 6 00 | 99.452 | 0.548 | 0.105 | 14 00 | 97.030 | 2.970 | 0.242 |
| 15 | 99.406 | 0.594 | 0.109 | 15 | 96.923 | 3.077 | 0.246 |
| 30 | 99.357 | 0.643 | 0.113 | 30 | 96.815 | 3.185 | 0.250 |
| 45 | 99.307 | 0.693 | 0.118 | 45 | 96.705 | 3.295 | 0.255 |
| 7 00 | 99.255 | 0.745 | 0.122 | 15 00 | 96.593 | 3.407 | 0.259 |
| 15 | 99.200 | 0.800 | 0.126 | 15 | 96.479 | 3.521 | 0.263 |
| 30 | 99.144 | 0.856 | 0.131 | 30 | 96.363 | 3.637 | 0.267 |
| 45 | 99.087 | 0.913 | 0.135 | 45 | 96.246 | 3.754 | 0.271 |

For each foot take one one-hundredth of each reading.

TABLE XIII.
MINUTES IN DECIMALS OF A DEGREE.

| | | | | | | | | | | | |
|-------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|---------|
| 0 30" | .00833 | 10' 30" | .17500 | 20' 30" | .34167 | 30' 10" | .50833 | 40' 30" | .67500 | 50' 10" | .84167 |
| 1 00 | .01667 | 11 00 | .18333 | 21 00 | .35000 | 31 00 | .51667 | 41 00 | .68333 | 51 00 | .85000 |
| 30 | .02500 | 30 | .19167 | 30 | .35833 | 30 | .52500 | 30 | .69167 | 30 | .85833 |
| 2 00 | .03333 | 12 00 | .20000 | 22 00 | .36667 | 32 00 | .53333 | 42 00 | .70000 | 52 00 | .86667 |
| 30 | .04167 | 30 | .20833 | 30 | .37500 | 30 | .54167 | 30 | .70833 | 30 | .87500 |
| 3 00 | .05000 | 13 00 | .21667 | 23 00 | .38333 | 33 00 | .55000 | 43 00 | .71667 | 53 00 | .88333 |
| 30 | .05833 | 30 | .22500 | 30 | .39167 | 30 | .55833 | 30 | .72500 | 30 | .89167 |
| 4 00 | .06667 | 14 00 | .23333 | 24 00 | .40000 | 34 00 | .56667 | 44 00 | .73333 | 54 00 | .90000 |
| 30 | .07500 | 30 | .24167 | 30 | .40833 | 30 | .57500 | 30 | .74167 | 30 | .90833 |
| 5 00 | .08333 | 15 00 | .25000 | 25 00 | .41667 | 35 00 | .58333 | 45 00 | .75000 | 55 00 | .91667 |
| 30 | .09167 | 30 | .25833 | 30 | .42500 | 30 | .59167 | 30 | .75833 | 30 | .92500 |
| 6 00 | .10000 | 16 00 | .26667 | 26 00 | .43333 | 36 00 | .60000 | 46 00 | .76667 | 56 00 | .93333 |
| 30 | .10833 | 30 | .27500 | 30 | .44167 | 30 | .60833 | 30 | .77500 | 30 | .94167 |
| 7 00 | .11667 | 17 00 | .28333 | 27 00 | .45000 | 37 00 | .61667 | 47 00 | .78333 | 57 00 | .95000 |
| 30 | .12500 | 30 | .29167 | 30 | .45833 | 30 | .62500 | 30 | .79167 | 30 | .95833 |
| 8 00 | .13333 | 18 00 | .30000 | 28 00 | .46667 | 38 00 | .63333 | 48 00 | .80000 | 58 00 | .96667 |
| 30 | .14167 | 30 | .30833 | 30 | .47500 | 30 | .64167 | 30 | .80833 | 30 | .97500 |
| 9 00 | .15000 | 19 00 | .31667 | 29 00 | .48333 | 39 00 | .65000 | 49 00 | .81667 | 59 00 | .98333 |
| 30 | .15833 | 30 | .32500 | 30 | .49167 | 30 | .65833 | 30 | .82500 | 30 | .99167 |
| 10 00 | .16667 | 20 00 | .33333 | 30 00 | .50000 | 40 00 | .66667 | 50 00 | .83333 | 60 00 | 1.00000 |

TABLE XII
INCLINED DISTANCE OF 100 FT. REDUCED TO HORIZONTAL



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 0 | 0 00 | 0 15 | 0 30 | 0 45 | 0 60 | 0 75 | 0 90 | 1 05 | 1 20 | 1 35 | 0 |
| 1 | 1 50 | 1 65 | 1 80 | 1 95 | 2 10 | 2 25 | 2 40 | 2 55 | 2 70 | 2 85 | 1 |
| 2 | 3 00 | 3 15 | 3 30 | 3 45 | 3 60 | 3 75 | 3 90 | 4 05 | 4 20 | 4 35 | 2 |
| 3 | 4 50 | 4 65 | 4 80 | 4 95 | 5 10 | 5 25 | 5 40 | 5 55 | 5 70 | 5 85 | 3 |
| 4 | 6 00 | 6 15 | 6 30 | 6 45 | 6 60 | 6 75 | 6 90 | 7 05 | 7 20 | 7 35 | 4 |
| 5 | 7 50 | 7 65 | 7 80 | 7 95 | 8 10 | 8 25 | 8 40 | 8 55 | 8 70 | 8 85 | 5 |
| 6 | 9 00 | 9 15 | 9 30 | 9 45 | 9 60 | 9 75 | 9 90 | 10 05 | 10 20 | 10 35 | 6 |
| 7 | 10 50 | 10 65 | 10 80 | 10 95 | 11 10 | 11 25 | 11 40 | 11 55 | 11 70 | 11 85 | 7 |
| 8 | 12 00 | 12 15 | 12 30 | 12 45 | 12 60 | 12 75 | 12 90 | 13 05 | 13 20 | 13 35 | 8 |
| 9 | 13 50 | 13 65 | 13 80 | 13 95 | 14 10 | 14 25 | 14 40 | 14 55 | 14 70 | 14 85 | 9 |
| 10 | 15 00 | 15 15 | 15 30 | 15 45 | 15 60 | 15 75 | 15 90 | 16 05 | 16 20 | 16 35 | 10 |
| 11 | 16 50 | 16 65 | 16 80 | 16 95 | 17 10 | 17 25 | 17 40 | 17 55 | 17 70 | 17 85 | 11 |
| 12 | 18 00 | 18 15 | 18 30 | 18 45 | 18 60 | 18 75 | 18 90 | 19 05 | 19 20 | 19 35 | 12 |
| 13 | 19 50 | 19 65 | 19 80 | 19 95 | 20 10 | 20 25 | 20 40 | 20 55 | 20 70 | 20 85 | 13 |
| 14 | 21 00 | 21 15 | 21 30 | 21 45 | 21 60 | 21 75 | 21 90 | 22 05 | 22 20 | 22 35 | 14 |
| 15 | 22 50 | 22 65 | 22 80 | 22 95 | 23 10 | 23 25 | 23 40 | 23 55 | 23 70 | 23 85 | 15 |
| 16 | 24 00 | 24 15 | 24 30 | 24 45 | 24 60 | 24 75 | 24 90 | 25 05 | 25 20 | 25 35 | 16 |
| 17 | 25 50 | 25 65 | 25 80 | 25 95 | 26 10 | 26 25 | 26 40 | 26 55 | 26 70 | 26 85 | 17 |
| 18 | 27 00 | 27 15 | 27 30 | 27 45 | 27 60 | 27 75 | 27 90 | 28 05 | 28 20 | 28 35 | 18 |
| 19 | 28 50 | 28 65 | 28 80 | 28 95 | 29 10 | 29 25 | 29 40 | 29 55 | 29 70 | 29 85 | 19 |
| 20 | 30 00 | 30 15 | 30 30 | 30 45 | 30 60 | 30 75 | 30 90 | 31 05 | 31 20 | 31 35 | 20 |
| 21 | 31 50 | 31 65 | 31 80 | 31 95 | 32 10 | 32 25 | 32 40 | 32 55 | 32 70 | 32 85 | 21 |
| 22 | 33 00 | 33 15 | 33 30 | 33 45 | 33 60 | 33 75 | 33 90 | 34 05 | 34 20 | 34 35 | 22 |
| 23 | 34 50 | 34 65 | 34 80 | 34 95 | 35 10 | 35 25 | 35 40 | 35 55 | 35 70 | 35 85 | 23 |
| 24 | 36 00 | 36 15 | 36 30 | 36 45 | 36 60 | 36 75 | 36 90 | 37 05 | 37 20 | 37 35 | 24 |
| 25 | 37 50 | 37 65 | 37 80 | 37 95 | 38 10 | 38 25 | 38 40 | 38 55 | 38 70 | 38 85 | 25 |
| 26 | 39 00 | 39 15 | 39 30 | 39 45 | 39 60 | 39 75 | 39 90 | 40 05 | 40 20 | 40 35 | 26 |
| 27 | 40 50 | 40 65 | 40 80 | 40 95 | 41 10 | 41 25 | 41 40 | 41 55 | 41 70 | 41 85 | 27 |
| 28 | 42 00 | 42 15 | 42 30 | 42 45 | 42 60 | 42 75 | 42 90 | 43 05 | 43 20 | 43 35 | 28 |
| 29 | 43 50 | 43 65 | 43 80 | 43 95 | 44 10 | 44 25 | 44 40 | 44 55 | 44 70 | 44 85 | 29 |
| 30 | 45 00 | 45 15 | 45 30 | 45 45 | 45 60 | 45 75 | 45 90 | 46 05 | 46 20 | 46 35 | 30 |
| 31 | 46 50 | 46 65 | 46 80 | 46 95 | 47 10 | 47 25 | 47 40 | 47 55 | 47 70 | 47 85 | 31 |
| 32 | 48 00 | 48 15 | 48 30 | 48 45 | 48 60 | 48 75 | 48 90 | 49 05 | 49 20 | 49 35 | 32 |
| 33 | 49 50 | 49 65 | 49 80 | 49 95 | 50 10 | 50 25 | 50 40 | 50 55 | 50 70 | 50 85 | 33 |
| 34 | 51 00 | 51 15 | 51 30 | 51 45 | 51 60 | 51 75 | 51 90 | 52 05 | 52 20 | 52 35 | 34 |
| 35 | 52 50 | 52 65 | 52 80 | 52 95 | 53 10 | 53 25 | 53 40 | 53 55 | 53 70 | 53 85 | 35 |
| 36 | 54 00 | 54 15 | 54 30 | 54 45 | 54 60 | 54 75 | 54 90 | 55 05 | 55 20 | 55 35 | 36 |
| 37 | 55 50 | 55 65 | 55 80 | 55 95 | 56 10 | 56 25 | 56 40 | 56 55 | 56 70 | 56 85 | 37 |
| 38 | 57 00 | 57 15 | 57 30 | 57 45 | 57 60 | 57 75 | 57 90 | 58 05 | 58 20 | 58 35 | 38 |
| 39 | 58 50 | 58 65 | 58 80 | 58 95 | 59 10 | 59 25 | 59 40 | 59 55 | 59 70 | 59 85 | 39 |
| 40 | 60 00 | 60 15 | 60 30 | 60 45 | 60 60 | 60 75 | 60 90 | 61 05 | 61 20 | 61 35 | 40 |
| 41 | 61 50 | 61 65 | 61 80 | 61 95 | 62 10 | 62 25 | 62 40 | 62 55 | 62 70 | 62 85 | 41 |
| 42 | 63 00 | 63 15 | 63 30 | 63 45 | 63 60 | 63 75 | 63 90 | 64 05 | 64 20 | 64 35 | 42 |
| 43 | 64 50 | 64 65 | 64 80 | 64 95 | 65 10 | 65 25 | 65 40 | 65 55 | 65 70 | 65 85 | 43 |
| 44 | 66 00 | 66 15 | 66 30 | 66 45 | 66 60 | 66 75 | 66 90 | 67 05 | 67 20 | 67 35 | 44 |
| 45 | 67 50 | 67 65 | 67 80 | 67 95 | 68 10 | 68 25 | 68 40 | 68 55 | 68 70 | 68 85 | 45 |
| 46 | 69 00 | 69 15 | 69 30 | 69 45 | 69 60 | 69 75 | 69 90 | 70 05 | 70 20 | 70 35 | 46 |
| 47 | 70 50 | 70 65 | 70 80 | 70 95 | 71 10 | 71 25 | 71 40 | 71 55 | 71 70 | 71 85 | 47 |
| 48 | 72 00 | 72 15 | 72 30 | 72 45 | 72 60 | 72 75 | 72 90 | 73 05 | 73 20 | 73 35 | 48 |
| 49 | 73 50 | 73 65 | 73 80 | 73 95 | 74 10 | 74 25 | 74 40 | 74 55 | 74 70 | 74 85 | 49 |
| 50 | 75 00 | 75 15 | 75 30 | 75 45 | 75 60 | 75 75 | 75 90 | 76 05 | 76 20 | 76 35 | 50 |

Computed by L. Leland Locke.

364.88
107.20
262.08

516.00
356.39
159.67