

255

DIETZGEN
JUNIOR

RECORD BOOK

1885

No 255

Hiram Turf
140-31

This book belongs to
John W. Curo, Walker
Minn. If lost finder
please return for reward

Note: This book is of
no value to any person
except John W. Curo

This Field Book is manufactured of a High
Grade 100% Rag Paper Having a **WATER
RESISTING SURFACE**, and is sewed with
Bing Special Enamel Waterproof thread.

Made in U. S. A.

Index Pg 1 and 2.
140-31. See Hunt Book 166

Maps-3- 9-13-15-19-21-22-23-25-27-34-
37-39-49-60-62-65-67-76-80-88
90-92-95-96-101-102

Padgett Page 56

Crabb- Pg 94. 107

Ties 131-

10-18-28-30-57-58-59-61-64-70-93-109
TIES! 110-111-112-113-115-118-122-123-125-126-129

Sec Cors 8-57-63-70-95-112-113-115-122-

1/4 Cors 6-8-11-12-16-19-27-74-95-113-114-117
123-

1/16 Cors 12-28-29-31-66-88-95-108-109-114-
115-125-126-129-131-

14-16-27-126

Center of sec

MC: 18-29-30-32-59-60-61-77-93

US Notes 63-

Deeds-83-104-

31

32

33

8800

6800

K 1014

Std

2000 1980

1180

6

5

4

7

8

9

TBA

1 2 3

Crystal
Lake

17

16

Hiram

19

20

21

30

29



31

32

33



34

35

36

3

Parallel

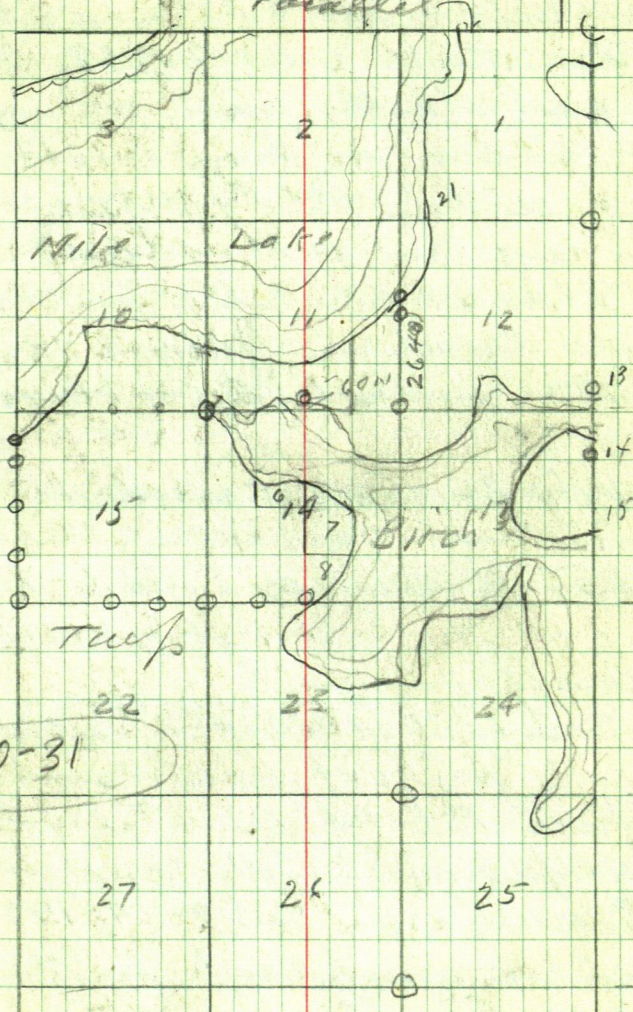
Mile

Lake

Birch

Twp

140-31



34

35

36

4

140-31

Lots 6-7 Sec 14

Hiern Twp July 19-1939

I got a letter from

Dr Adam M Smith 1013

Medical Bldg Mpls

in regard to the survey

of this land and another
letter from him July 19-1940

This is the C E Garrigues
Estate

July 20-1940 I wrote Dr
Smith the cost would be

\$150 to survey Lots 6-7

14-140-31 On July 21-1940

I wrote him again

July 30-1940 rec'd letter
from L. A Short Asst Trust
Officer Fst Natl Bk & Trust Co
of Mpls asking the cost to
survey only Lot 7-14-140-31
and how much each for two
5 acre tracts

July 31-1940 I wrote him

\$100 for Lot 7 - 175⁰⁰ each

for the 5 acre tracts - total \$135-

Edward C. Garrigues - Estab.

On Aug 6-1940 I got a letter
from Mr Short asking me
to survey Lot 7 - etc. week of
Aug 11 to 18-1940

Aug 16-1940 I returned
home and called on Dr
Smith on the ground then
with Mr Short

"We started work on outline
lines to-day etc and it
will take us ten days to make
the survey?"

Sept 30-1940 Another letter
from Mr Short - Oct 9-
1940 I answer his letter
Survey nearly finished
John W. Carr

6 Hum Temp - 140-31

Aug - 1940

Reed and I drove to
Victor Martin's car

Victor goes with us from
the 1st 1/4 on So side.

Dec 14-1940-31- walk 80
rods where Victor
shows us iron pipe
set by Donner 20+- years
ago for his 1/16 Cor

Sept 21-1940

I pick up Wilfred
Miller and Harold Carr
Lv Jenkins 9-AM. 10 AM
on Walker

11 AM \$2. To Bill for fixing
Reed's car - Reed and
Wilfred Lv Walker in his
car and cut line
North on E Sec 14-

Nolo! They work about 7
on line but I run 5 1/2 hours

John W Carr

Sept 1940

Harold and Reed push
North on E Sec 14-140-30

Clear to Bush Lake -

Work late

Jenkins to Ten Mile
- back in Harold's Co.

8

Oct 8-1940

Reed and I & Lu Walker
in my car. PM.

On the North Arm of
Buch Lake we find pt for
Look for Cor To

11-12-13-14 140-31

Old New BTS are marked
but we find no more

Drive $\frac{1}{2}$ mil. West and
find $2\frac{1}{2} \times 48$ " Capped 3m
in mound of dirt. recorded

or $\frac{1}{4}$ Cor $\frac{1}{2}$ Nat = 60.2 chd @ 90° T. NW
LINE

Wit Cor 60 ft North of $\frac{1}{4}$

Cor bet Lees 11 and 14-

140-31 Put Red flag and

drive West - about 1/2 East
to Victor Martin res

We look for SVX COR 14 =

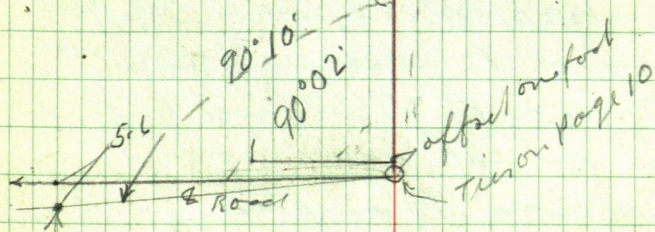
14-15-22-23-140-31

Vick-BA. Johnson + Son? with
Reed and I dig No find

$\frac{1}{2}$ day for Reed

N
 1
 0.2m
 60
 1.7 + 1.1
 0° 01'

random & sec 10-140-31



place li dig for corner
 about 2 road chained wet
 ditcher 40 ft apart

1/4 Bet 14-23

140-31

Ties taken Sept 8-1940

White Oak 6 N 40° 05' E 90.80 Ft

White Pine 20" N 47° 40' W 21.12

Twin White Oak 8th 8-10 x 16 at
base S 35° 30' E 14.80

Tripple Red Oak 6-7 x 8 inch

S. E. 4.25 All to light spot
at base.S W Cor port of fence West 33.50
varNote. As the 1/4 c.m. is
behind a big fence port we work
on line 70 rods WestSight to 6 ft red flag at 1/4 Cor
Set Hub West to a point 5.6 in
of a road 1/2 mile westThen on an offset line 1 ft
N of 1/4 we take an angle of
our random 90° 02' plus

$$5.6 \text{ in } 2640 = \frac{08}{90^{\circ} 10' \text{ close}}$$

Back to Walker at dark

John W. Cunn

Oct 12-1940 Saturday

Reed and I & L. Walker

10:30³⁰ AM. Take Lunch

Reed and I get Harry Pedolock
and give grade for ditch
at Frank Beag #0-

L. Walker 11:20+- Arrive
Martin via 11:55

Eat our lunch.

P.M.

Beag @ 14005 ch

North on random @ Lee 14-
140-31

1st Mileage via Hackensack and
via Ten mile. From Martin

via L. Walker via

1st Store to Martin via 70 mi. Lk = 6.9 Miles

2nd Mail to Store via Hack

=

12

North on random 4 From $\frac{1}{4}$
Bege Spike Hut on hill in
field Ch So 150 pin - 300 pin
194. = 644. $\frac{1}{4}$ Cor
From 644 N Ch

North 250 = 894.14 270 -
1164. pin + 100.1 = 1264.1
also Iron Capen was
set by Donner for Vic Morlin
North + 65 = 1329.1 48' oak stp
+ 52.4 = 1381.5 Hut
near gate 276.0 =
1657.5 on hill over draw
+ 208.2 = 1865.7 Hut in
Swamp 80 ft North of
water in burned out
rim of Swamp water 10' and
1865.7 + 252.3 = 2118. pin
L1 Swamp Green 6"
Tarn and spruce 100 E
150 W runs SE SW
to end 100 E 100 W
run NW & NE

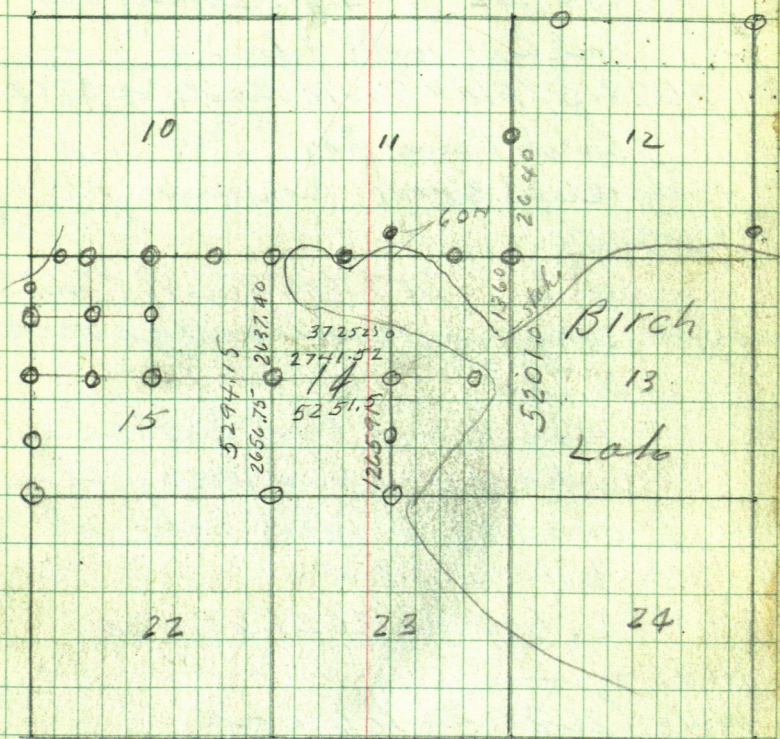
Continued Pg 14

Hiram Twp.

13

Old Record N^o 330 P^g 471. B"

140-81 NIX



See Page 27

1315.18

5294.15
 5201.00

 21049.5.15
 5247.57

14

Note. All Hubron R.R. spikes

$2118 + 178.3 = 2296.3$ Hubron Top

$+ 140. = 2436.3$ pin N Blunk

$+ 192.3 = 2628.6$ IM. E Side big

NE Cor post of fence

2628.3. Flat South Side of hill

Split Fence Cor

North 2628.3 (post) Continue

North

N 2- To 210 PM met Dr Smith
who says Lot 6 will go back
to Slater -- Now owned by

Bank and that the man
who is buying the 5 Acres
in Lot 7, will "take" lot
6 and so on

Lv Car at 2628.6 = Pipe

North +

Note: (2628.3) = tall post

(2628.6) = Iron pipe on E

side of post in low ground

Note more: Because the ground
is low we chain from Top of
post at 2628.3

16 Oct 12-1940 continued

$$2628.3 + 218.7 = 2847.0 \text{ Hub}$$

+ 63 = 2910 pin in bottom land
50 ft so of Swamp -- dry

$$300 = 3210 \text{ pin in cranberry}$$

$$\text{bog} + 300 = 3510 \text{ pin LV bog}$$

SE + v about 70 W

$$+ 163.7 = 3673.7 \text{ Hub on}$$

Pine Ridge NW + SE Good

12" Norway pine. Long
ridge NW SE just right
width for plucking

$$3673.7 + 110.10 = 3783.8 \text{ Hub}$$

on good sea wall 5 ft Hi

$$+ 50 = 3833.8 \text{ Hub RR spike}$$

on broad sand beach 60 ft so
of water. Wide and hard.

OK to drive on

TOVE 3833.8 Red Flag over

Lake appears to be about 2 ft R

$$= \text{Wt } 1/4 - 60 \text{ ft N Bet } 11-14$$

140-31 Flag at 1/2 in beam

0° 04' R.

Take Shore line

South 30 ft $S 47^{\circ} E 100$. $S 64^{\circ} E 200$. $S 66^{\circ} E 300$ TO 400Distance estimated to point
of land - appears to run
thence so

A Triangulation

Change Meridian Focus 0.0.

North on red flag Lume cuts

East edge of Island Run

 $N 43^{\circ} 30' W 500$ ft set wood

peg @ "B" 30 ft N of shore and

30 ft from water

To over 500 - B' BS $S 43^{\circ} 30' E$ on A. Flag at "C" bears $N 17^{\circ} 18' E$ Variation reads $9^{\circ} 00'$ NE Angle reads $119^{\circ} 12'$

Take Shore line. Point of land

bears $N 52^{\circ} W 100$ ft fromwhich point shore runs $S W$ 150 ft Then so about $30^{\circ} W$ 700 ft $\pm 0^{\circ} 9'$

18 Hiram Twp. 140-31

Oct 12-1940 continued

Ties to Hut 3783.80. Small
stones below surface Hard
to find a "hole" to drive
R.R. spike on sea wall 5 1/2
m of beach

Later: 3783.80 set East 1.23

NP 16 S about 30°W 62.95

NP 3 feet
set true N 1.23 East

NP 15 S about 45°E 27.12,

spat at base. Out at 5:05 PM.

Pack to 80 rods to car

Back to Walker via Hoch

5:25 LV Vic Marlin Res.

Speedom reads 96.5 (6.3 miles
" " 002.8

at store where Ten Mile

Lake road LVS Tar

Distant via Hoch = 6.3 miles

to Vic Marlin res via Hoch

And going down dirt to

Marlin res from this pt via

Ten Mile Lk Rd was 6.9 miles

Pg 11. 6.9
6.3
6.6 miles longer to res

Via Ten Mile Lk road vs Hoch Rd

95.3

88.7

6.6

John W. Cress

20

FIGURING

Nali! - Donner's old notes
 serv log in give this distance
 at 5247.58 - chained on river
 My @ 5241.58 my ch Hnd ch

6.00 Six feet for hat
 and Cold Chain OK.
 Use my chain

$$\begin{array}{r}
 4) 5241.58 \quad (= 1310.4) \\
 \underline{2620.8} \\
 3931.2 \\
 \underline{5241.6}
 \end{array}$$

West side

Lets use Donner's Cold Ch

$$\text{Six ft in } 5241.58 = .011446$$

Donner's Cold Ch on West side pg 15
 would be $2656.75 - 3.04 = 2653.71$

$$" \quad " \quad 2637.40 - 3.02 = 2634.38$$

$$5294.15 - 6.06 = 5288.09$$

East side see 14 Donner ch

$$5201 \times .011446 = 5.95 = 5195.05$$

NIX

See page 22.

5294.15 Donner ch

6 ft
H/X
H/X

H/X - We Will Not use "H/X Cal"
 But take Donner ch & minor ok
 Call 6 ft Crook on N Side

2.2

5294.15

2637.40
2656.75

14

5201.00

2637.40

2656.75

5294.15

5201.00

93.15

$$5294.15 / 93.15 = .017595$$

East side .017595 short 93.15

$$5294.15 \times .017595 = 93.15 \text{ OK}$$

$$2656.75 \times .017595 = 46.75$$

46.75

2610.00

$$2637.4 \times .017595 =$$

46.40

93.15 OK

2656.75

46.75

2610.00

2637.40

46.40

2591.00

5294.15 Damm

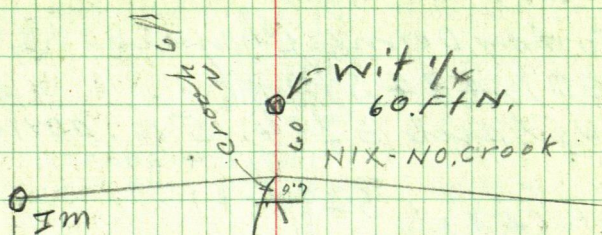
2650.75 Damm

2656.75

2637.40

2637.40

19.35m



2633.38

2608.20

$$\begin{array}{r} 1316.69 \\ \times 5247.58 \\ \hline 1316.69 \\ 6583.94 \\ 2633.38 \\ \hline 5294.15 \end{array}$$

2610.00

$$\begin{array}{r} 1305. \times 1305. \\ \hline 1305. \\ 1305. \\ 1305. \\ \hline 1295.5 \end{array}$$

2591.00

1295.5

$$0.04' = .012 \times 1408 = 1.70$$

24 Shrinkage for
Heat and Cold

Today Donner Chain is

.0011434 Short short

West side 5294.15 is .0011434
6.04 short

5288.11

Heat & Cold 2

2656.75 Short .0011434 =
3.04 short

2653.71 To-day

2637.40 Short .0011434
3.02 short

2634.38 OK To-day

East Side

5201.00 Short .0011434
5.95 "

5195.05 OK To-day

West Side 5288.11

East " 5195.05

East side 93.06

5288.11 / 93.06 (= .017598

2653.71 Short .017598 = 46.70

46.70
2607.01 = Side So Half

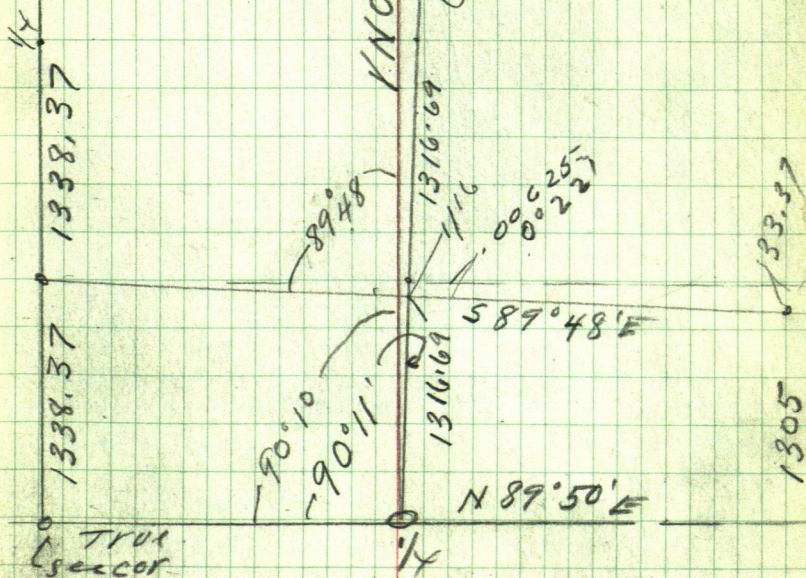
2634.38 x .017598 = 46.36

46.36
2588.02 OK on Page 27

Oct 13-1940

25

$$2040 / 21.68 =$$



26 Oct 14-1940 Monday

5280/ 23.35 L = .0044223 = $0^{\circ}15'$

Note: I decide to Call the North
Sid Straight -- No Croak

And use my chain VS
Heat and Calcd

Call All Dorners chain
.0011434 works out OK.

We will use Pg 27

28 Hiram 140-31

Oct 14-1940 Monday

Rain last night

10 AM Reed and I & V Walker
in my car 11 AM at Vic

Marlin π over Hut 1381.5 N

Vic Marlin corner Eat lunch
bot of Louise Link

1318.5 Pg 12 Ch So 66.32 To 1315.18 N

Hut on random 0.42 West of

S to Cor

π over 1315.18 Focus N

Turn $90^\circ + 0.05' R = 90^\circ 05' R$ and Run

S $89^\circ 55' E$

Ties to π in Center of So Half
See 14-140-30

RR Spike in heart of green

10" W. Oak Stump N $2^\circ 30' W$

14.00

RR Spike in heart of green

8" Poplar Stump

S $80^\circ E$ 20 $\frac{1}{2}$ inches 1.70 N

Turned from True line 1x

Use 9° Needle works poor

East Bet Lals 7-8- =

S $89^{\circ}55'E$ True line

Chained from point for
True $\frac{1}{16}$ Co on 0.41 East of π
70.4 Hub 20 ft E of Private
Road SW & NW

$211.6 \text{ pin} + 98.7 = 310.3$ Hub on
ridge under π 57 feet paced
N of E-W 3 wire fence on
N side plowed field

$310.3 - 610.3 \text{ pin} = 658$ Private
Road NE SW

$610.3 + 249.4 = 859.7$ Hub
on first ridge NE SW

$859.7 + 108.4 = 968.10$ Hub
on good sea wall

6 ft Hi 6 wide on top 12' at base
50 ft from water

π over 968.10 USING linear
E-W Take shore line

(Plate at 90°) Sea wall

S $56^{\circ}W$ 75. S $49^{\circ}W$ 150

S $37^{\circ}W$ 400.+-

30

Ties to 968.10 East MC

Red Oak 10 N 40° 21' W 40.70

NP 8 N 45° 12' E 42.00

Run Sea Wall

N 58° 15' E 130 Hub

Tower 130 Run N 43° 30' E 85

Note: 130 is 30 ft from water

85 is 25 ft from water

Tower 85 Run N 32° E 240

wood plug 1x6 Red rag

All Hubs R.R. spike

240 is 75 ft from water

narrow sea wall

Sharp

From here on N E

shore line swings

sharp to the R

Heave big WP Tree

S End of swamp lies

50 ft N from 240

4.15 PM.

Oct 14-1940 contd

31

Walk $\frac{1}{2}$ mile to Can Drive 80 rods
 & walk 80 rods to 3783.8 P₇ 19

Correction

.000324	3784
5242/1.7000	324
15726	15136
12740	7568
10484	11352
22560	1226016

Hut 3783.8 W set East 1.23 T.

True line

Walk to and drive to
 to incen of 50 Half Pullsup
 old temporary $2\frac{1}{4} \times 48"$
 Capped Galv iron pipe and
 drive it 0.41 E of Hut
 1315.80 for True $\frac{1}{16}$ Cor

Then chain to Ties green on

Page 28

Find another

Standard I.M. Left here
 just now by Vic Young
 Martin Corner and we take
 the iron and drive East
 to lake where we find Vic

32 Oct 14-1940 cont'd

At Hat 968.10 E we pull up
spike set in its place the
Iron Vic braker $2\frac{1}{2} \times 48"$
Capped Galv iron pipe set on
sea wall for True Line bet
Gr Lats 7-8- Vic helps
us drive it True on Page 30

We all 4 ride back in my
Car Out 5 or Walker
6-PM. Fine day Bright
Sun Cold wind

Cold at 6-PM

50¢ to Don Schultz for wood
Martha - Eunice - Jimmie

Reed and I set at Walker

Nat. at MC Bet Lats

6-7 on So side of lake we
drove a $2 \times 36"$ boiler tube
pipe set in a good mound
of stone - Stone piled at
all 3 corners This finishes
my \$100 Contract for
Survey of Lot 7. 14-140-31

Jahna Crew

Oct 20-1940 Sunday

Harald-Welfred and I
to Nesswa on Baker plat
See Field Book

Oct 21-1940 Mon

I work alone on Baker plat
Field Book

Louis Ka-shote and
at Jenkins - Reed - Excise and I
to Pequot 3/10 ft Surveys

All Over night with Walthers
at Jenkins

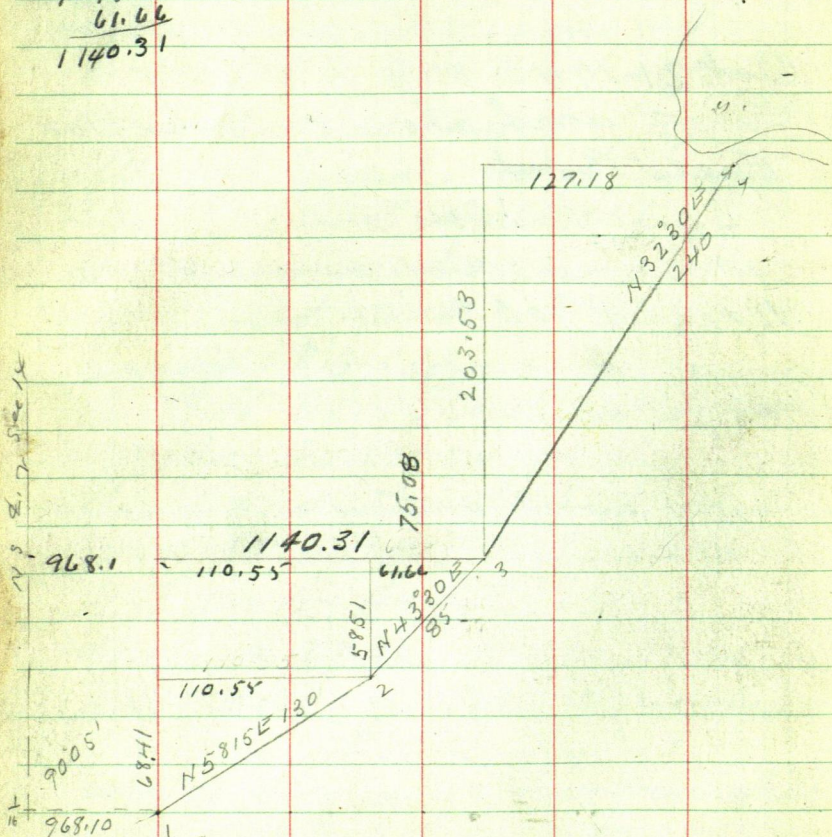
Oct 22-1940 Tues

Walthers and I to Walker 11 am

34

Oct 22-1940 contd PKI
Figuring Plat

968.10
110.55
1078.65
61.66
1140.31



St 1. N $58^{\circ}15'E$ 130 To St 2

$$\text{Sine } 85035 \times 130 = 110.5455 E$$

$$\text{Cor } 52621 \times 130 = 68.4073 N.$$

St 2 N $48^{\circ}30'E$ 85 To St 3

$$\text{Sine } 68835 \times 85 = 58.50975 N$$

$$\text{Cor } 72537 \times 85 = 61.65645 E$$

St 3 N $32^{\circ}E$ 240 To St 4

$$\text{Sine } 52992 \times 240 = 127.1808 E$$

$$\text{Cor } 84805 \times 240 = 203.5320 N$$

N $32^{\circ}E$ 86.17

$$\text{Sine } 52992 \times 86.17 =$$

$$\text{Cor } 84805 \times 86.17 = 73.07 N \quad OK$$

36

Oct 23-1940 C.H.

Figuring 68.41

$$1023.37 \times 64.41 =$$

$$65.915.26$$

$$1109.48 \times 58.51 =$$

$$64.915.67 \text{ NIX}$$

$$1163.00 \times 73.08 =$$

$$84.992.04$$

$$215 \quad 822.97$$

Oct 26-1940 Sat Nite Try this

N 32° E 88.53

$$\text{Sine } 52992 \times 88.53 = 46.91 \text{ E}$$

$$\text{Cos } 84805 \times 88.53 = 75.08 \text{ N}$$

$$\text{Tang } 6249 \times 75.08 = 46.91$$

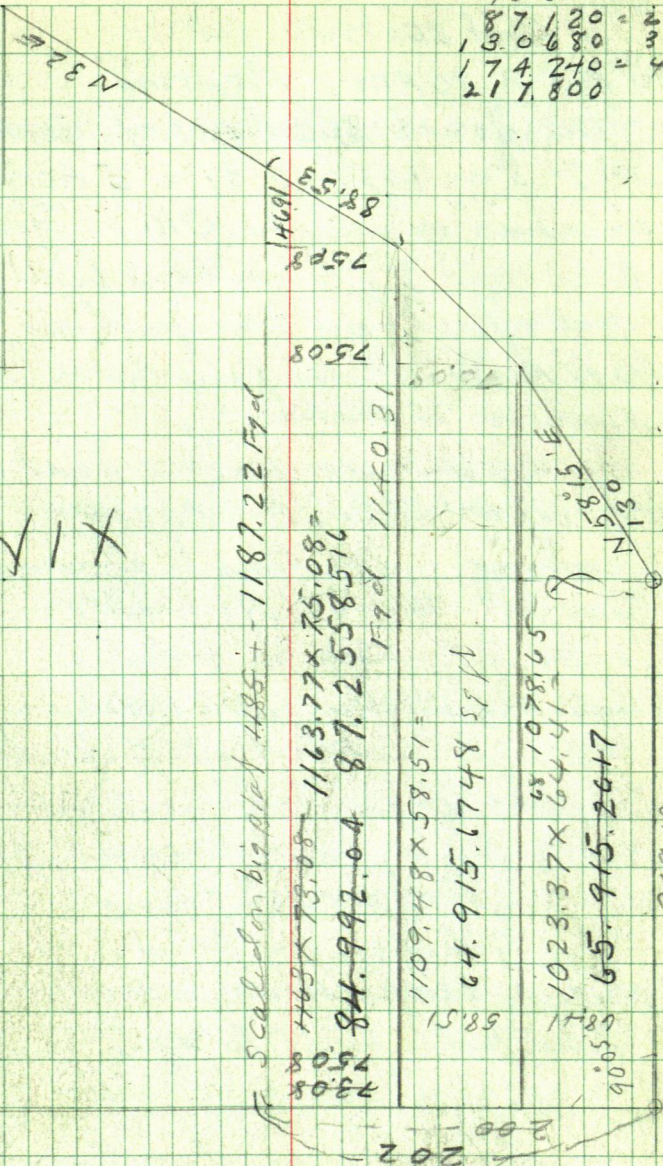
$$1023.37 \times 68.41 = 70.009 \text{ Sg Ft}$$

$43560 = 1$
 $87120 = 2$
 $130680 = 3$
 $174240 = 4$
 217800

NIX

5 calculated big plot 485 + - 1187.22 F9d

$1163.77 \times 75.08 = 87.2558516$
 $84.992.04$
 87.2558516
 1140.31
 $1109.48 \times 58.51 = 64.915.1748$
 58.51
 $1023.37 \times 64.41 = 65.915.2617$
 64.41
 968.10



38

Oct 26-1940 Sat

9 PM To 10 PM Figuring

The South 200 Feet of Gov
Lot 7- Sec 14-140-31 = 5 Acres
as near as may be OK.

Reed and I Return home from
Nati. Reed and I to Jenkins
Go to Nimrod via Pine River
Nimrod to Walker.

Harry Simon and I call
on Doc Mahler Ed Rogers
+ Dahmer PM Out to Sevens
Resort - Back to Y. Call on
Billy - Ten Mile Lake

Call Vic Morlin from Hack
Home to Jenkins after dark.

Morley is in Beamed with
Mr. Rindley Reed Examined from
I at Bob Norton farm

\$10 To Nelson on Reels car
- Making \$20 per on Reels car
Reed paid in full to date

John W. Carr

130.00
85.00
86.17
301.17

85.002
64.916
70.009
219.927
217.800
2127

OK 5 Acres
Oct 26-1940

1182.82
1185.97

90°05'

1163.14 x 73.08 =

85.002 59 Ft

1109.48 x 58.51 =

64.916 59 Ft

1023.37 x 48.41 =

70.009 59 Ft

968.10

73.08

200.00

14.81

1140.31

58.51

1078.65

110.55

14.81

43.66

73.08

N 32° E
11.50
86.17

61.66

N 33° E
43.66

N 30° E
130.15

Jabnu cur

40

Oct 28 - I will -- mps rh

Oct 29-1940

PM. Reed and I Senkum to Pine
River. Then to Hach. to Uie

Marlin Set 2 Ims- for 5 Acres

At SW Cor Gov Lot 7 ch

North on random 200 ft then 0.60 E

to True NW Cor 5 Acre Tract-

(1)

8242
7.5-

43.

April 6-1941

Evening

Dr Smith and Johnson

call at walker and want me at
their place at 8-AM Tomorrow

April 7-1941

Up @ 5 AM - Lv Walker Ctho

7.05 Spedom reads 8242.

7.25 Ar Side Road Store

Lv Tar Road - drive west

Spedometer 8254

Ar Vic Martin 7-38 Spedom 8261

8 AM - Meet Dr Smith and

Geo J Johnstone

322 E Minnoka Pk Way
Mpls.

8262 - 8.55 AM Lv Vic Martin

8266 - NP Depot Hackensack 9.05 AM

44

(2)

April 7-1941 continued

9-05 Pat Hackenschalk Look up Geo
Willenrath and Doc Button

9-10 Cloudy - Cold as hell NW Heavy
wind Light rain starts

9-12 - Find Dr Button is out
on a baby case at Geo-Weiger

9-30 To 10 AM Talk with Geo
Willenrath

10 To 10-10 AM Talk with
Dr Button

10-15 AM LV NPD for Hook
Speeder 8267

8270 pass Lind Road

8281 Arr Home in Walker 11 AM.

(3)

May 17-1941

5 $7/10$ gals gas 4.10 PM

Martha and I Spedon 0.0

Drive to Vic Martin Farm via

Ten Mile Lake Then out to

N Dick Johnson 5 Acres 5:40

PM. Spedon

46

834.7

147.3

147.3

④

1002.0

May 23-1941

Dr Adam Smith - Geo &
Johnson Survey11-AM pickup Frank
Shulze and Mr Walker 11-AM

11-30 On Sec 14-140-31

See Page 28-29-

Notes say From $\frac{1}{16}$ Cen S half of
East on line line @ 310.3 Hub
on ridge under π 610.3 pin

658 private road NE SW 610.3 +

249.4 = 859.7 Hub on first ridge

+ 108.4 = 968.10 Hub on good sec well

See page 29

Today from Hub 859.7 we ch
West 25 feet to my old small
Hub 834.7 East on line lineFrom 834.7 Turn 90° and runNorth 200 feet to another of my
old small hubs π over 200-BS so on Hub 834.7
Turn 90° and runEast @ 7.0 @ Private Road
NE SW @ 167.3 = 1002.0 East
set Hub 200 ft N of so line

(5)

π over 1002.0 BS West run
 $N 43^{\circ}53'E$ 166.35 Pinon lip
 small + $\frac{26.55}{192.90}$ Hubon
 π slope + $\frac{28.90}{221.80} = \text{pt } 0.50$
 East of cross D in rock.

$N 43^{\circ}53'E$ 221.8 $\pm .20 = 222.0$

Pinon $693192 \times 221.8 = 153.89 E$

Cr 720753×221.8 160.00 N

693192
 $\frac{222}{1386384}$
 1386384
 1386384
 1386384
 153.8886

720753
 $\frac{222}{1441506}$
 1441506
 1441506
 160.007166

From IM ch
 East @ 75.4 Hub
 1st bench

@ 133.4 IM 2x36

also

West 78.8 to Hubon lip

$\frac{834.70 E}{167.30 E}$
 1002 E
 153.89
 1155.89

48 Smith-Johnson -

May 23-1941 Cont'd

Mosquitoes drive us out at 5-30

Ar. Walter 6-06

All Hubs set or replaced
with R.R. Spikes

1155.90

133.4

1289.3

1155.9

78.8

1077.1

834.70

1473

1002.0

153.7

1155.90

75.40

1231.30

Hiram Twp 3
 Gov Lot 7-Sec 14-140-31

49

133.4
 75.4
 58.0

Parallel with
 No line lot 7
 Sec 14-140-31

1077.10 E Hoban Twp

1155.9 E Fros 1/16 Cor

1231.30 E

1289.3 E

E x W

153.9

78.3

75.4

133.4

New Tract

160. ft
 160

N 43° 53' E 222.0

133.4
 75.4
 58.0

IM 2 x 36

7.07 & 10.0

167.3

167.3

East

1002.0

North Line of Original
 5 Acres = 50 200 ft
 Lot 7-Sec 14-140-31

200.0

839.7 Hob

968.10 E
 116.

Birch lots

East

E

1/16 line
 50 line Lot 7

834.2

25.0

834.7 East

50

⑧

May 25-1941 Sunday

To get NW Cor of the Geo

Johnson 166 ft From Hub 1657.5

N. Page 12 we chain North 17.68

ft to 1675.18 Then East 1 ft +-

1/2 ft for Im @ NW Cor of additional
160 feetPage 12-27-39²

Mafr

Correction Page 25.

 $5300) 1.70 = .000321 = 0.01' +$

1675.18 N guess East 0.53 OK.

From Hub on hill 1657.50 N cl

N

17.68

TO

1675.18 Then E.53

13 15.18

360 00

1675.18

1657.50

17.68 N and 0.53 OK for 2 x 36" post

Martha and I to Walker

See Stat Highway Book

Mark Miss Podgett's line. get
\$15 in full - Miss Podgett goes back
Mrs Prince says she lodges with
Podgett in a Dublin

at 2-15 Walker St at
Vic Martins and out to lot 7

to over 200 ft. Hub P949 BS so
and run north $11^{\circ}10'E$ 160 ft N.

Since 1937

Cor 98017 in 160 = 163.24

Set RR spike Hub 6 ft. East
of E N S Road to over 163.2x
BS S $11^{\circ}10'W$ and run E-W

Set RR spike and flags
about 60 ft E and 70 ft West
of old road.

Then drive to Vic Martins
and north to Hub 1657.50 N
and Ch N 17.68 to 1675.18 Then East
0.53 and set 2x36" pipe in hole
'NW Cor Johnson Tract.'

$11^{\circ}10'$ Tang = $1974 \times 160 =$

Dr. Smith
Survey May 25, 1944

52 May 25-1941¹⁰ Continued

Home to Walker via Hackensack

Reed calls and says Bill
Stowe was here with a Mr

L.V. Westman 4309 Park
Ave. - N.Y. - He wants a slice
cut off Gov Lot 4 - West of the
old Stowe place and will
come immediately if I let him
know wants it for Friday
Sat- or Sunday.

Notes: Mrs Padgett gave me \$15⁻
at Ten Mile in full

Will pay \$17.50 to Barney East
240 ft split in two but first
must wait for her letter

She wants her west line
run and will pay \$37.50 in
small payments

Home about 5:45 or 6 P.M.

Coal - cloudy. Martha and I
read Curwood. Grindall calls
and wants Lewis Lewis @ 6:45 AM
to-morrow. I give Harold Olson
\$3 on account John W. Carr

Dr Smith¹¹ - Geo Johnson 53

May 27-1941 Tues

Platting:

Receive letter from First Natl
Bk & Trust Co - L.A. Short Asst Secy
& Asst Trust Officer Re. Geo Johnston
wants - plat and description

Note: I told Johnston the

Survey \$1750 and extra

Plat 250 ← No charge see letter

~~\$2000~~ Johnston said O.K.
\$17.50 O.K.

Platting See page 16-27-39-29-47-49-

$$1289.3 + \text{Tang } 0.05^\circ \cdot .001454 \times 360 = 0.52$$
$$\begin{array}{r} 1289.3 \\ .5 \\ \hline 1289.8 \end{array}$$

56

①

Padgett

April 18-1941 Friday

I am 70 years old today

Martha-Reed and I living at the
Harry Paddock house in Walker Minn

I am to survey the East line
of Gov Lot 2-Sec 10-140-31 For
Florence Ogden Padgett a Teacher
unmarried of

for \$65. ^{at 15th day} Note: this is Reed's 3rd
day for Minn State Highway @ 50[¢] an hour

I am working alone. ^{Mpls} Up @ 5.45
AM. Reed goes to work @ 7.30 will Lv
at 8.

I and my car Ford Sup Del
8. pick up Harold Olson ^{37th} of Walker
and his lunch: I take my lunch also

Lv Walker 8. AM Drive to Sec 10 Via
Hackensack Buff + Berger π in per-
fect adjustment: 300 ft Chicago
steel tape and plumb-bob chain

All Hubs are R.R. Spikes

Find 2x48" Galvanized iron pipe
capped Set by me 27 years ago
at the True corner to Section

575

②

140-31

57

10-11-14-15 ~~14-15~~

Set in a good mound of bog dirt in
wet tam swamp. Old X line cut
N-S-E-W Run

North (no var needle mont work)

300 pins + 45.9 = 345.9 Hub Ties

White Birch 75 48' 15" W 28.15

Tam 9. S 61° 50' E 31.45 10 spat at
base of each tie All turned
from random called 'North' for
this random line Following old
cut out line $245.9 + 196.1 = 542.0$

Hub 33 ft N of & graded road in
curve (509.4 road) $542.0 + 93.1 =$

635.10 Hub R.R. Spike

Road 50 ft N of swamp SE SW

635.10 Hub on first bench up big
hill (we walk up and chain down)

$635.10 + 152.7 = 787.8$ hub on top of
so brink of big hill on E. side.

30 foot flat top 787.8 Ties

W Pine 16 S 15° 45' W

W Pine 12 S 72° 10' E 12.00

spat at base

Noon Eat lunch in 30 minutes

John W. @ uuo

April 18-1941 continued P.M

North Bet 10-11-141-31 continued + 200 =

987.8 pin in N. slope - ch down hill

987.8 near foot Thence over Draw

300 = 1287.8 pin thence up grade 32.2 1-

1320 (Note: Just happen to hit Flag

pole not just now - set Hub RR spike

at 1320 Temporary St cor bet 10-11

Ties. Pop 5 N 36° 10' W 5.98

Birch 12 N 19° 37' W 24.65

$24.15 + .50 = 24.65$

spat at base of both lines small spat

+ 191.7 = 1511.7 Hub on hi bank

20 feet above Ten Mile Lake

W Pine 16 S 61° W

" " 15° S 13° W

Birch 10 S 53° E

⌵ over RR Spike Hub 1511.7

Old BT Mark on West side of old

US BT Stump

bear N 29° 25' E 31.80 To spat
on slump

⌵ over old spat on slump W side

BS S 29° 25' W

Ties to old spot

575

Spine 10N 72°W 52.45 (New BT)

NP 11 S 58°20'E 34.65

To light spot at base

& old 14" WP slump bears

S 70°E 20.50 1/4 of slump

sowed down - flat life stump

Old blazed white Pine ^{12"} tree partly dead bears N 49°40'W 73.10 (12" diam)

to old spot another old spot

on 10" WP tree bears N 44°40'W 54.10

Nat: this old 10" WP tree bears NE about 2 ft from where it first stood 27 years ago

Used to stand N 46°10'W 54.10

It sets on brink of sea wall

We set point for US MC N° 23

N 50°W 66.00 feet

(US Nat for MC N° 23 call for

NP 14 S 72°E 100 Links (66 feet)

It still at old slump

Storm shore line N 51°W 300 ft and S 45°E 100 ft about 10 ft from water storm shore 6 ft up

60

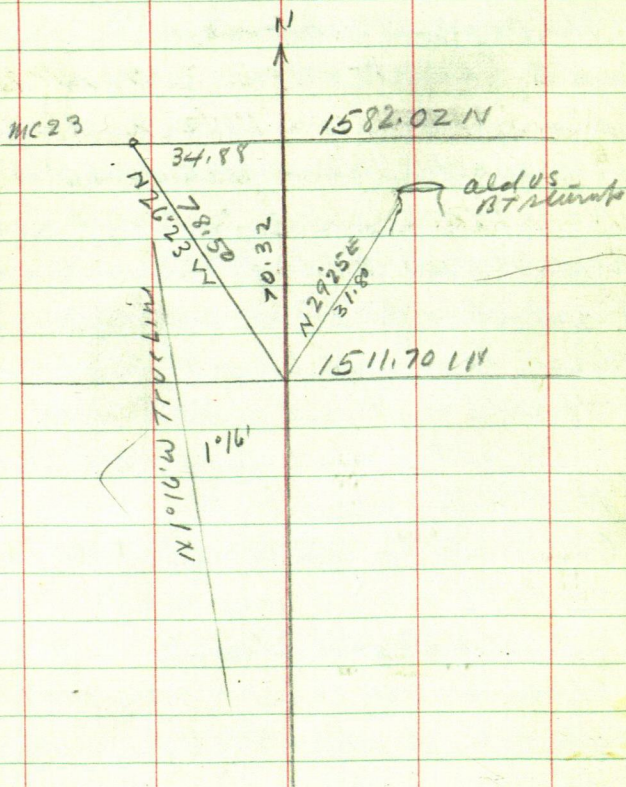
5

π still at old US BT True MC23
 bears $N 50^\circ W$ 66.00 feet

π back on random Hub

1511.7 MC 23 bears $N 26^\circ 23' W$ 78.50

to stem 5 foot iron flag pole set
 at true point for MC



Ties to MC N: 23

575

X over MC BS S 26° 23' E

Old 12" Dead WP tie N 48° 10' W 7.12

to old spot

Old 10" WP S - about 74° E 13.80 and

spot on SE side

New ties: NP 10 S 1° W 25.95

small notch at base

WP Birch 6 N 78° 15' W 2.10 not bloomed

Spruce 7 S 42° 10' W 11.50 no spot

Pull up flag pole and drop

11.9 spike in hole for

True MC N: 23.

62

140+31
141-31

1582.02

34.88

N 26° 35' E

70.32

5.8

N 29° 25' E

31.80

TICK 10' US BT

NP 1472° E 7.

Old BT. Sp. Sp. 10

N 72° W 52.45

NP 11 S 58° 20' E

NP 11 S 58° 20' E 34.65

1511.70

(10)

(11)

1320

POP 5 N 36° 10' W 5.98

Birch 12 N 19° 37' E 24.65

787.8

On Tap
50 Bush

WP 16 S 15° 45' W

WP 12 S 72° 10' E 12.00

635.1 H

542.0

Road 509

345.9

RR Spike WB 75° 48' 15" W 28.15

Tam 95° 61' 50" E 31.45

10

11

IM Section

15

14

Padgett

⑧

Apr 18-1941

63

US Notes

140-31

North Bet Sees 10-11-141-31 ~~NIX~~

~~@ 2598 LKS (= 1714.68 ft)~~ US chain

Enter Ten Mi' LK Set MC #23

NP 145 72° E 100 LKS = 66.00 Feet

Only one B.T.

Old US BT Stump here marked
but it stands S 50° E always did

Curro Nales

New Ties

MCN: 23

On Page 61. This Blk

Notes Continued on Page 71

This Book 255

John W. Cur

575

2220 plat

63

9
Padgett Survey

April 19-1941 Sat

Pick up Harold Olson and his
lunch 8 AM Lr Walker Sethubin

d & w graded road

West of Cor 10-11-14-15-141-31

Focus on flag at line corner

East on CCC-cut out line

Down hill 162.6 Hub Wind in

tape and from 162.6 continue

East 170. to 332.6 pin in old

36 inch pine stump on West edge

of water hole Harold Olson

with rubber boots gets over

water hole and runs out

tape 300 feet to 632.6 pin +

303.8

True Corner

936.4 I M

10-11-14-15- 140-31

2 1/4 x 48" Capped galvanized
Iron Mon sticks 2 feet above

a 5 foot mound in tam

swamps - wet to-day

well timbered small

lamin liner

10

140-31

64

~~141-31~~

575

10-11-14-15

John W. Cucco - County Surveyor in 1914 set this cor from old US bearing lines in 1914.

To-day April 19-1941 we lake new BTS viz

Tam 4 N $25^{\circ}20'E$ 20.25 Feet

Tam 5 N $36^{\circ}10'W$ 26.20 "

Tam 7 S $47^{\circ}35'W$ 38.85 "

Tam $4\frac{1}{2}$ S $45^{\circ}30'E$ 14.25 "

To new spot at base of each line - another spot 3 ft up

Turned from Random line north

2. Pickets 1000 ft +- over arm of Ten Mile Lake set by C.C.C. bear

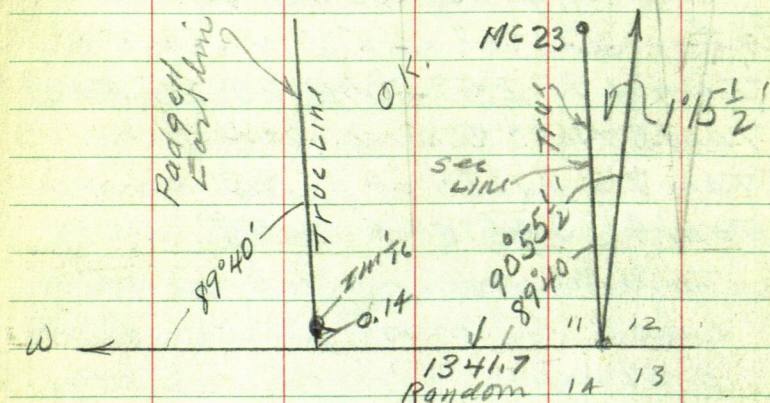
N $89^{\circ}45'E$ I may use these pickets later to continue my line East. My old Cut out T line (1914) 27 years ago runs about S $0^{\circ}35'E$

11-11-41

65

⑪
140-31~~11-12-13-14~~ 10-11-14-15

My new random line is North

My 2nd New random line runNW Angle of randoms
reads $90^{\circ}55\frac{1}{2}'$ R.

$89^{\circ}40'$ R From my random west
is a true parallel line to the East
Sec Line

My Random line west is almost
a true line off only 0.14 of a foot in
80 Rods

Padgett

12

1469

1372

66

West bet ¹⁰⁻¹⁵ ~~10-14~~ ¹⁴⁰⁻³¹ ~~141-31~~ 575

Reg @ 936.4 Ch West 300 = 1236.4
+ 104.4 = 1340.8 Pin in hole dug

looking for IM 1236.4 +

232.75 = 1469.15 Hub on hill

All Hubs R.R. Spikes

+ 600 = 2069.15 pin + 300 = 2369.15

pin + 209.70 = 2578.85 Hub on

small hill & E-W graded rd

+ 102.35 = 2681.20 in line with

old fence North + 1.70 = 2682.9

in line with new fence South

2578.85 continue

West-Bet 10-15-

600 = 3178.85 pin + 130. =

3308.85 pin + 173.95 = 3482.60

Hub on hill + 140.40 = 3623.00

pin + 300 = 3923.00 pin + 105.30 =

4028.30 Hub about 7 ft west of

& road leading South OK.

Going East we find my
old 2x48" pipe 1/2 foot below
surface E-W-Road &

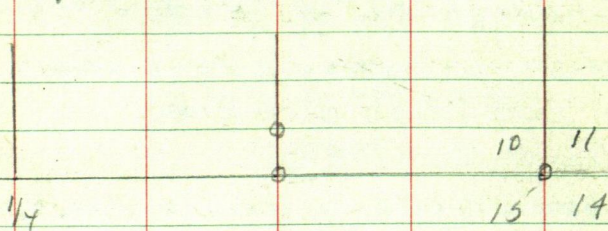
At 1341.7 w the E 1/6 IM set NO. 14
of a foot

67 Apr 19-1941 (13)

At 1341.7 W set RR spike
Hat 0.14 So of $1/16$ IM Tower
RR spike on random line

Four Half a mile west still
on random Turn $89^{\circ}40'R$
and Cut True line N
North on True E $1/16$ Line Sec 10
141-31 But Gov Lats

@ 0.14 CL IM @ 33.14 set
2x36" pipe R-of-rr-limit



Podgett 140-31

(14)

68

Chaining

575

April 20-1941.

10 AM. Reed and I & L Walker
Caldashell. Cut

North on line run yesterday
E $\frac{1}{16}$ Sec 10-141-31 Dam true line
X over Hub on top Big hill
about 800 or 900 ft N of C

Ties E Line Lot 2-10-140-31
NP 10 N 3° 20' W 65.00 To Spat 4' up
Br Oak 55 50° 42' E 27.35 Spat @ base
Turned from true line
All Hubs R.R. Spikes

North on true line Down Hill
Rough Ch- (within 1 foot total)

300-600 pin + 246.8 = 846.8

IM 2x36" boiler tube pipe
on Hi Bank + 41.30 = 888.1

Set 2x36" pipe in pile of stone
on seawall so rid. Ten
miles Lake True MS. 20 ft from
water IM = NE Cor Lot 2

Sec 10-140-31

69 Padgett (15)

575

From MC. Ch

South 41.30 To IM - just set
8 46.8 N - on top of the bank

Tier: RR Spike in N-half of
old shell Stump of 16 inch stp
S 7° W 22.15 ft

Balsom 6" S 62° 02' E 8.40

1/2 nail at base - nail head - varnish

Total distance MC to Hub on
hill 888.1 Ft

About 200 ft S of MC

Old post holes of old N-S fence
bear ~ 77° W 94 feet

From 888.1 Ch

South on line line - down hill

$$300 + 70 = 370 + 300 = 670 + 16.2 =$$

$$686.2 \text{ Hub} + 191.7 = 877.9 \text{ IM}$$

$$\text{For R of W} + 33 = 910.9 = \text{IM}$$

to Cor S E Cor L at 2. - 10-140-31

$$\text{Q Road } 910.9 +$$

$$888.1 =$$

$$\underline{1799.0} \text{ Total}$$

Quit @ 4-p.m. 6 Hours for Reed @ 50¢

= 300 50¢ extra for Ties in

another cor = 350 for Reed See next Pg

Jahn W. Cunn

(16)

70

Apr 20-1941 Evening 578

Coming home to Walker
Reed knows where Stair-Hy
Engrs just dug up Im @ Cor 1.

1½ miles ? East of "Y" Store
We drive there

⊥ over 1¼" solid iron bolt
⊥ Road Highway #34

Focus East on Flag 0.70 N of ⊥

Ties 5-6-7-8-141-30

White Birch 6 N 55° 20' E 183.5

6" W. Oak N 29° 40' W 169.9

6" Red Oak S 38° 55' W 116.3

→ 5½" W. Birch S 62° 20' E 202.50

To spot at base of each

Turned from about ⊥ Rd 300' E

One hour for Reed 50° See Pg 69

Still Calder Home to Walker

Eunice calls "Collect" Reed

answers from Bill Nubar tel

60° chd to Reed By Bill

Reed takes my Car to Black Duck

150 miles - Book in the mile

John W. Carr

10 days later
8000 feet above
sea

71

Apr 18-1941 ⁽¹⁷⁾ 575

Old Nali (Apr 18-1941)

See Page 58 This Book 255

Harald Olson and I cut
In West and set Hat & EW
Road Run $3\frac{1}{4}$ of a mile WestQuit @ 6 PM. $9\frac{1}{2}$ Hour

for Olson @ 37¢ = \$3.52

Home in Walker - Reed - Mortha
and I John W CussNali: Commissioner Con Ce lined
down my bill \$45 filing Records
Should have had the money 2 days ago
Cash Due \$212° Geo H. Stauff

35 exp ac Nelson Co

45 Coss Co

25 Chailis - Pequot

35 Goshin

150 Baker

30 upr Drug Co

26 Harry Simon

no come

John W Cuss

18

Padgett

72

78 June 14-1941 ¹⁹ Sat

Frank Schullze and I at Tin M.

Padgett

(20)

74

June 16-1941

Schultze and I L. Walker late
10-45 A. Ten Mile Lake

Check my old random
West bet 10-14-141-31

Page 66. At Hub 1469.15 W find
RR spike on random and set
red flag at 2578.85 Spike
seems to be gone

3482.6 find RR spike Hub on
random line from which we
East on my old random

300-600 + 177.5 = 777.5 Hub
on Random 2705.10 West

1341.70

2683.40

2683.40

21.70

etc

East 21.70 to get 2683.40 West
Look for I m $\frac{1}{4}$

East on lunch 12-30 to 1.30 PM
PM-

75

21 Padgett

July 23-1941

All A.M. in Walker - Itasca
hill - meet Gookin - \$2.10
Bill Schofner - Try to get
Aaron Zaffke 1090 to Ten
Mi Lk.

2-30 P.M. pick up Frank
Schultze - Lv Walker 3-10 at
Padgett

⌒ over Hub on True East line
Lot 2 - Sec 10-140-31

Padgett East line 233.30 So
of Im at NE Cor and 77 ft
So of E-W-Road

Focus on true line Run
N 87°30'W 100.10 Hat 163.9 Hat
1 ft So of NW wheel track
250.25 Hat

⌒ over S 1/2 1-MC bean N 41.3
Run 90° West 100 ft set Hat on
N slope of hill about 20 ft So of
Lake Ridge and 30 from water
Ten Mile Lake

Continued Pg 77

Padgett

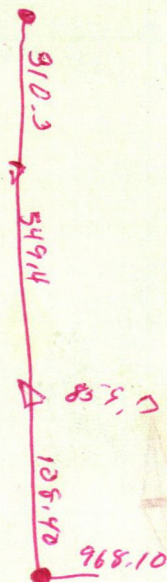
(22)

8960
8730
230

76

968.10
859.7
108.40

859.7
310.3
549.4

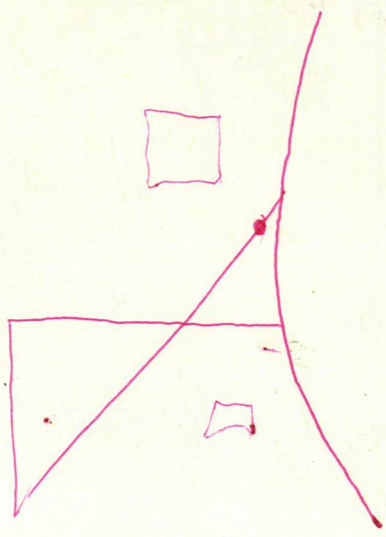


Padgett

8960
8730
230

76

(22)



Padgett

8960
8730
230

76

(22)

Ten M. Lake
wall 7

H1 Bowler

MC

12" MR
20' Hub
T

RRaph

100

90

41.3

41.3

51.3

192

233.3

250.25

Sta 5

150.15

(3) Sta

100.108

730

77

51.3

(2)

163.9 Hub

Sta 4

N 1565.7

Total 1799.0

77

(23)

π back on Sta 4 - Hub 163.9

BS S $87^{\circ}30'E$ Take Bldgs

SE Cor N $25^{\circ}57'W$ 64.6

NE Cor N $25^{\circ}47'W$ 82.2

SW Cor N $48^{\circ}00'W$ 69.7

Bldg $20 \times 26 + -$

Toilet $4 \times 5 + -$ Long way west

SE Cor bear N $29^{\circ}E$ 51 ft

π over S 165 - bearing 250 W of E Lin

Hub Mhd 250.25 Focus S $87^{\circ}30'E$

Run North about 175 ft set Hub

on top of bank 150 west of E Lin

and another Hub halfway bet

π back on Hub S 163

Run north part way to lake

to mark out the East 100 ft

Quit @ 6 PM - Home 6:30

4 Hours

John W. Curo

Padgett 24-

78

July 30-1941

Schutlze and I with lunch

Lv home 7-30

Call at Ctho Find note under
office door Florence Ogdon
Padgett - 50s. for "Lot stakes"
'by Friday'

Another note found plat
From E.E. Crabb

Plat of Sunset Beach - On Ten
Mile + Birch Lake

'9-15 Lv Ctho Call on
Crabb.

See Book

Call on Padgett

Meet: Captain W. Harold
Cox and Virginia B. Cox
husband and wife of

1949 East River Terrace

19pls - may buy a 100 ft tract
as joint tenants"

We make preliminary
Survey

79 July 30-1941 continued

We run west side Miss Padgett's
Gov Lot 2 - clear thro to Ten
Mile Lake and come out
40 ft +- west of an old N-S-
Fence.

Pack outft East Tower Sta 3.

Sta 1 to 3 N $87^{\circ}30'W$ 250.25

Sine $436 \times 250.25 = 10.91$ N

Cor $99905 \times 250.25 = 250.01$ W

Tang $437 \times 250 = 10.93$ N

Sta 3 to 4 - S $72^{\circ}40'W$ 157.3 = $17^{\circ}20'$

Sine $2979 \times 157.3 = 46.86$ S

Cor $95459 \times 157.3 = 150.16$ W

Tang 3121 46.86 S

Sta 4 to 5 S $85^{\circ}50'W$ 182.6 = $4^{\circ}10'$

Sine $0727 \times 182.6 = 13.28$ S

Cor $99736 \times 182.6 = 182.12$ W

Tang $0729 \times = 13.28$ S

250.01 W

150.16

400.17

182.12

582.29

233
219

81 Padgett July 31-1941

9 AM to 11 AM - Shalts and I go
slw for new Slab Theater

\$2.50 ch See Field Book

Figure angles at C.H.

Noon

Shalts eats his lunch in C.H.
gar - I keep on figuring

Give Martha 50. 81. T. Shalts
keep ch. 90. bal myself

2-15 PM L. C.H.

2.45 Eat my lunch on terrace

3.00 PM - set line of stakes so from
Hub 582.29 W Slo 5

Run Slo 5 P 80 BS N 85° 50' E 100
N 89° 30' W @ 100 Hub

222.8 Hub on ridge

100.00
23.09
76.91

582
200
782

805.09
782.00
23.09

222.8 +
76.09
298.89

582.29
222.80
805.09
582.29
222.80

From Slo 5 = 582.29 W @ 4
West

222.80
805.09 Hub on ridge +
76.91
882.00 Hub on road

Run Road S
Run N81°50'W
about 300 feet to

Out 7- PM

$$Sta 00 = 1799.00 N - 233.3 =$$

$$Sta 1 = 1565.70 N + 10.92 =$$

$$Sta 3 = 1576.62 N - 46.86$$

$$Sta 4 = 1529.76 N - 13.28$$

$$Sta 5 = 1516.48 N + 2.60$$

$$" 6 = 1519.08 N + 65.02 =$$

$$" 9 = 1584.10 N 7.81 = IP$$

$$9 = 1576.29 N IPT$$

$$1575.50 chd = 0.79 short chd + 190.01 close$$

$$10 = 1765.5 on Lk shou P976 close OK.$$

$$Sta 0 = 00.00 West$$

$$1 = 0.0$$

$$3 = 250.01 West + 150.16 =$$

$$4 = 400.17 West +$$

$$5 = 582.29 W + 299.70 =$$

$$6 = 881.99 W + 6$$

$$9 = 1341.71 W$$

Aug 1-1941

Deed

A part of Gov Lot 2 - Sec 10 - 140 - 31

West 100 ft of East 682 feet
of said Lot 2 being a strip of land
100 ft in width running N. and S.
the entire length of said Lot 2

Said strip of land ex lundr from
Pub Hy along so line of Lot 2, North
to shore of Ten Mile Lake about 1700
ft & contains 4 acres more or less

The E. Line of Sec 10 is considered
a true N & S line in this des-
cription all subject to R. of W
of the public Highway along so
end of this tract. Subject also
to Mineral Rights &c as of record

Subject further to R. of W of present
travelled roadway which runs Ely
& W. ly over and across Lot 2 &
passes about 100 ft to 200 ft so from
so shore of Ten Mile Lake

& This deed includes all
buildings on the above described
land &c

Capt Cox - Mrs Podgett & et Ho

Aug 4-1941

Miss Rodgett calls at 11:30
and has a line inserted in
Capt Cox's record re Bldgr

85 Padgett

August 8-1941 Friday

7-30 Frank Schulze and I to
Slaps at Et Ho. Figure 1980-

Sta 5 is 582.29 west + 49.22 S of D

Sta 5 to Sta 6 - N 89° 30' W @ 222.80 =

Hutor ridge + 76.91 + 76.91

299.71 Hutor in road 299.71

= Sta 6.

N 89° 30' W 299.71

Since $99996 \times 299.71 = 299.70$

Cor 0087 $\times 299.71 = 2.60$ N

F changed to 81° 57' W ^{to min}

Sta 6 Run N 81° 50' W along Road

9 AM Talk with Dr Button
at Walker. Buy lunch at

little place 9:09 With

Frank Shultz & Walker

at Padgett 9-45

Cut line west from Sta 6

10-25 AM π over Sta 6 135 89° 30'

89° 30' E Focus N 81° 50' on

Hut Hut line beyond

Run N 81° 57' W

Station 6 Chan

West $N 81^{\circ} 57' W$ along so wheel
 track of Padgett Road @ 200 Road
 Run SW about $S 50^{\circ} W$ 150 then West
 @ 212.25 Hut R.R. spike 3 ft NW of spike
 West wheel track 300 ft

⑧ 331.9 Hut $300 + 164.3 = 464.3$

intersect New Transit / I.R.

= Sta 9. Town Sta 9 - BSS $81^{\circ} 57' E$

Line Run $S 0^{\circ} 1 \frac{1}{3}' W$

12-40 PM

Eaton lunch. Figuring:

$N 81^{\circ} 57' W$ 464.3

Sine $990146 \times 464.3 = \frac{459.72 W}{462.72 W}$

Cor $140037 \times 464.3 = 65.02 N$

Tang.

Cot $141431 \times 462.72 = 65.02 N$

Sta 6 is $801.99 + 462.72 =$

$881.99 + 462.72 = 1344.71$

= 3.00 Too long NIX

1344.72 P986 Cold Ch

1341.70 P965 Hatch

$\frac{1344.72}{1341.70} = 3.02$ Long

$100 = 101$

$200 = 201.99$

$300 = 302.99$

$400 = 403.99$

$159.7 = 161.29$

Sta 6 = $881.99 W$

$\frac{459.72 W}{1341.71015}$

Sta 9 1341.71015

Padgett
87 Aug 8-1941 continued

1-30 PM. As our traverse line along
N end of Lot 2- appears to be 3. ft
too long we check chain to end
of Lot 2- and find by Beye IM $\frac{1}{2}$ c
West along E of C. Road 3-6-9-12 + 20
= 1220 pin on hill + 121.4 = 1321.4
To IM $\frac{1}{2}$ c on P. B. ch - close

Beye $\frac{1}{2}$ c

North @ 33.00 hole for IM @ 256.8 N, 14th
256.8 + 109.35 = 366.15 Hole

+ 74.0 = 440.15 pin + 364.85 = 805. Hole

on low hill west edge East wheel track
805.00 + 500.6 = 1305.60

Hut at X in line with
west wheel track + 60.40 =

1366.00 Hut + 209.5 =

1575.50 Hut under T

- 190.00 =

1765.50 Hut on So

Bank Ten Mile Lake

30 To 40 ft from water

D 2 x 2 x 16" old slate on

pile of stones lies S E

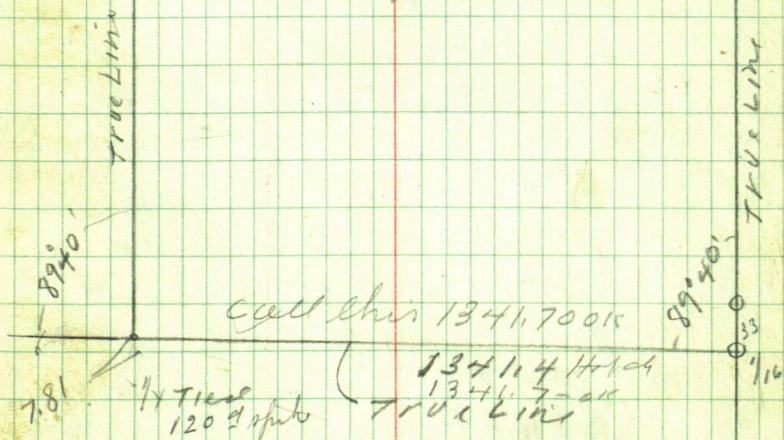
30 ft E of our line

At 1578 old fence post @ 26.8

Horn about 6-

True $0^{\circ}20' = 5818 \times 1341.7 = 13.42 \text{ N}$

Gov Lot 2
Sec 10-
140-31



89

Aug Deal Aug 8-1941

Aug 21-1922 Eagan Cat L.V. 1

1936 " Sold T. Edgar Jagger

Al Wook

Aug 12-1941 Figuring

copied

✓ Paolagott

289.30.62

100.0

9/27/20

101

0.01

101
464.3

101

2-91

101 184

101

100

159.7

161.8

228

91

Padgett

Aug 13-1941

10-AM I take statement 1:00
 Button Total \$85

Pd. 10

Bal 75

Today ch Bal 10 65 Sachar Flat Rd

Doc says Harold Esher can
 help me.

1-15 Ls Walker at Hoch

1-30 Harold and I Ls Hoch

2-15 ar Padgett From W side Lt 204

101-202-303-Hub W side Lot 10

From 303 From 300' E S 81° 57' Run

North Bet 10-11- @ 88.7 Hub on Hi Ridge

Q^o $\frac{88.7}{343} = 123.0$ IM 2X16" Pipe

on Hi Louie bank 10 ft SW of Hi bank

8 ft Hi IM is 25 ft from water

6 ft sand beach

Sand Beach runs

NW 70 ft then NE 30 ft

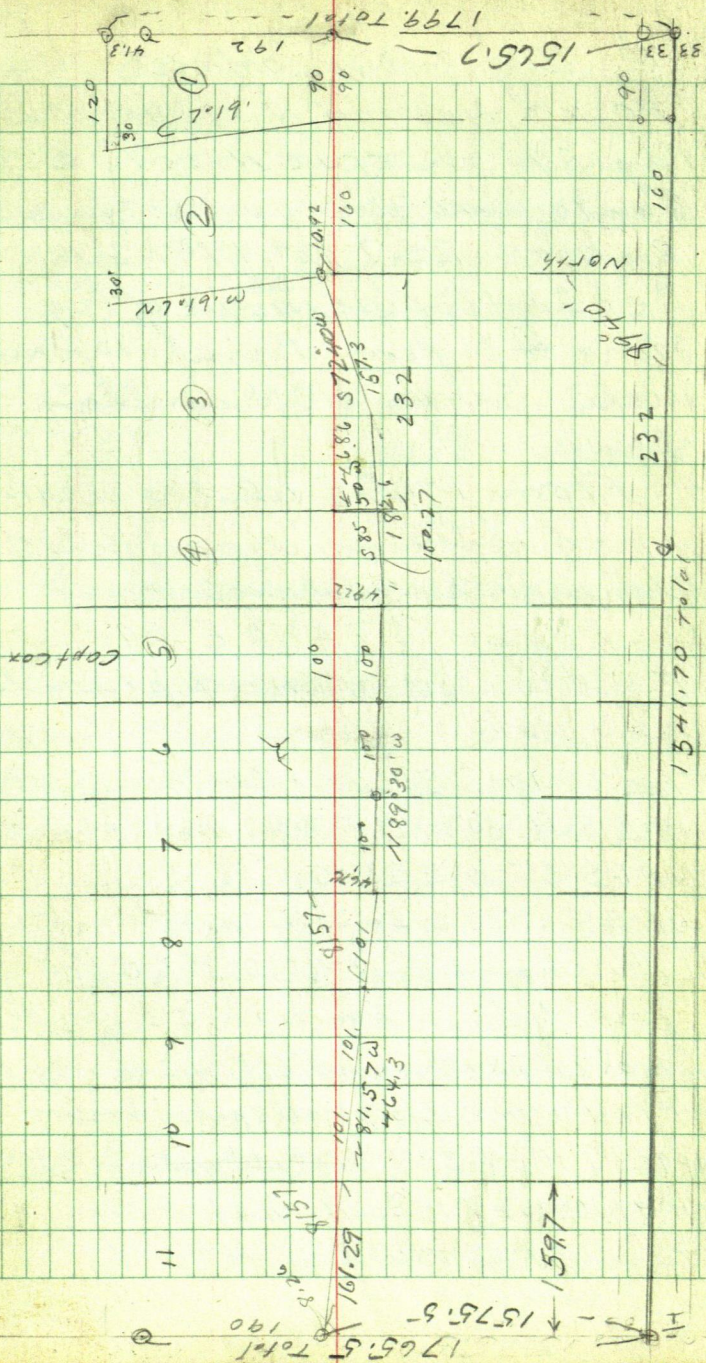
then SW

From Run south 57.7 Hub

& Road at about 200 So Hub

on Rise - From 57.7 Road runs

100 - So 100 then W by



93 Aug 13-1941 continued

Padgett

1765.5

257

1791.2

PACK π Wes and N to Hat 1765.50
Page 87. on TRUE N-S- $\frac{1}{2}$ x 2
Sec 10-140-31.

Run North 25.7 To 1791.2 N
Set 2x48" pipe in pile of big
stone 5 ft from Bunk 10 from
Wall Sea wall 5 ft up Stony
Shore

From 1765.5 also \square 2x2x16"
wood stake in small pile of
stone under old N-S fence
line bears S $74^{\circ}10'E$ 30.8 ft
Find small $\frac{3}{4}$ " iron pipe under
old stake

TIES TO 1765.5 (Loose RR spike into rock)
NP 5 S $11^{\circ}00'W$ 17.70 Small spat stone
NP 6 S $36^{\circ}36'E$ 33.05 " " " "
WP 4 S $69^{\circ}30'E$ 26.25 No spat

Lake shore lies N $86^{\circ}30'E$ 80 //

Point lies East 100 +-

COVER 2x48" pipe MC 1791.2 N
NP 12 N $86^{\circ}20'W$ 18.95 Small spat at base
NP 9 S $9^{\circ}10'E$ 23.10 Spat at base
WP 7 N $88^{\circ}10'E$ 7.15 spat 4 ft up
Turned from true line so
5.50 PM

E.E. Crabb.

①

Aug 14-1941

8-AM. Frank Shalts and I Gas at

Levi E. Potvin Motor Inn Garage

② 14 gal 2.97 speedometer Reads
 0.11- 23
 3.22 13.701

Note:

① 1st stop Aug 6- 13.2 gal 2.82 speed
 Tire repair 50
 3.22 13.433

13.701

13.433

2.68 miles 14 gal - 19.2 miles OK

Working For E.E. Crabb.

Frank Shalts and

8 am L. Walker. Get gas and at Levi

see No 2 about Drive to Hatch

Harold Eiber cannot go with us

Chet Flasher grinds axes 2.50

Get edgings at mill No chg

Call on Vic Martin - gone

11 AM in Ten mil - Birch

200 Roanoke Bldg 17 pts

95

-EEC rabb

(2)

Aug 14-1941 continued

11-12-13-14- 140-31

We find 2x48 Galv Iron pipe
Top cut off with road grader

Leans 0.50 N 0.15 west Dig down
to see Do not straighten but set

R.R. spike at line pt for cor Flag

Drive west Find 2x48" Capped Galv
pipe 1/4 cor Set 60 ft N of line

See Page 13 This book N° 255

Walk 80 rods west Find W. 1/4

2x48" Galv Iron pipe - Set flag

Cut brush 100 ft. so to Birch Lake

I get in Hornet Nest - stinging
plenty

Note: Alt. 3 above Iron Man

Set by me about 1913-1914

See Old Field Books

Drive East cut out line E of Lk

I use Jim Flynn big brass Gortley Conipon
Nab pd Jim \$1. week ago for use of Conipon
Take Conipon bearing

Conipon
91° 30'

W 71° 30' Road

11.05
Rain
starts

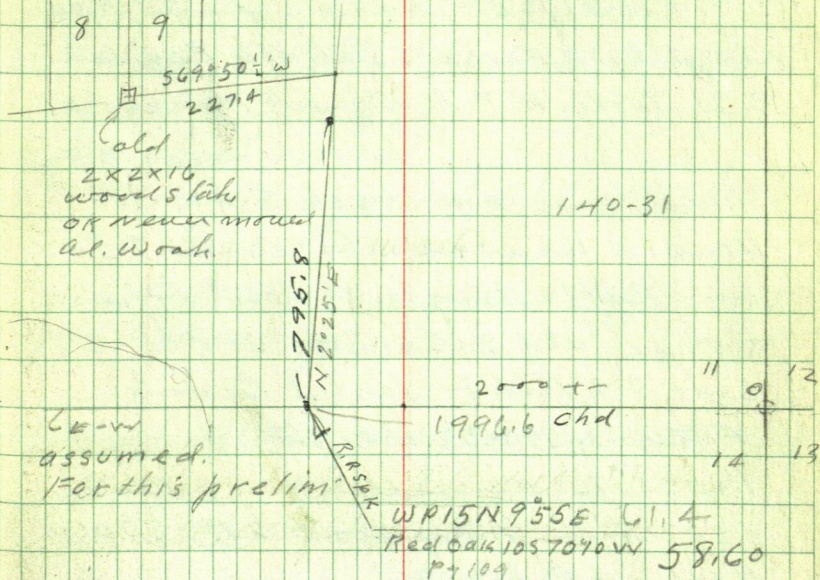
W. 4 Var 84.5
Road

(3)

96

Aug 14-1941 contd Crabb.

Sunset Beach



To get line Sec Line work x on line
but Sec cor and W 1/4. True line
called E-W

Hub is on line E-W sec line

9+ft E of old road supposed to
be on Beach Way Drive

Run N 2° 25' E keeping about 9 ft
E of narrow road about 400 ft
road turns west around bog

To be chained later Call on Crabb just leaving
Quit 7-10 PM. John W. Curo

97

Crabb⁴

Aug 15-1941 Friday

Rec \$10. ck in full from Dr Kay
 Send \$1. To Farmers State Bk Peguab
 \$ 2. To Mrs K.T. Early ins Northport I

Shalls and I or Hack 9.9M

Harald cant go On Ten Ma 9-30

Biff + Berger \approx 300' lops \approx over old 2x2x16" stk cor

Lots 8-9. Blk 1- Sunset Beach

Focus N $69^{\circ}50\frac{1}{2}'$ E on S16Run N 70° E as called for on platc 200 Hat \approx over 200 Hat 135 S 70° WRun N 65° E = 25°

Sine 4226

Cor 90631 in 33 = 36.41 Set Hat

Tang 4663

Run South

 $70^{\circ} = 20^{\circ}$

Sine 3420

Cor 93969 in 33 = 35.12 Set Hat

Tang 3640

From 36.41 continue $N 65^{\circ} E$ 75-150 feet
at 150 add $2 \times 2 \times 16$ " lat stake bet
Labs 2-3- Blk 2. Sunset Beach
bear SW 3 slips
no check at all

The Surveyor who platatted
Sunset Beach
must have used some different
Meridian - poor run

Walk West & chain no stakes
Find old $2 \times 2 \times 16$ " stake OK at
SW Cor Lat 1- Blk 1.

Hiding brush I take ties
White Birch 14 So about $30^{\circ} E$ 37.75 //
Pap 8 abt west 21.80 to spalis at base

White Stake $2 \times 2 \times 36$ For Shady
Shore Plat bear NW 10.20

Meet Edna Moore 2106

Commonwealth Ave St Paul
And her sister own Labs 1-2-

Shady Shores - Platatted by Mrs W. A.
Moore - no illusion

99

Crabb 4

Aug 15 1941 cont'd Crabb

Edna shows me her NE COR 2x2x
24" white slate NE COR Lot 1 -

Shady Shore - Says slate OK
never moved and that there is
a "20" foot walk East of her Lot
"Belongs to the State"?

Anyhow I find no "IM" called
for in plat Sunset Beach

Al Wook shows me old slate
on Lake Shore - says OK for Cor
bet Lots 2-3 - Blk 2 - from
which an old fence runs so
to old slate - mentioned

Shall's cuts weeds + brush
we find old slates 4's 5-6-
6-7 Al. Wook says OK.

Turn 6-7 - BS on 2-3 -

S 65° W Run N 55° E Hit line

Meet. Lillian Margaret
Wilson ^{Singer} Address Carlton

College Northfield Minn
"Willie" To Miss Poagett

Continued Pg 107

Aug 15-41

Padgett

100

Shalts and I quit Crab work
and at 3-30 PM,

Run over Hat 233.3 So of NE Cor Lot 2
ch N 4 ft Hat 229.3 So of MC,
90° West @ 90, set 2x16" pipe west
line Sage Tract on old N-S Line
 $90 + 160 = 250$ W set 2x16" IM
229.3 So. and 250 W From NE Cor
Lot 2. Run N 12° 30' W

set 2x16" pipe on sea wall
NW Cor Lot Tract 2-

Miss Wilson may buy Tract 2
in c House @ \$1000.

6-10 Quit - Home & Walker

8 PM Take Martha to Flower show
8.05 Pick up Mar. Shalts and
drop her off on Martha's trail
9 PM I go myself.

Padgett

Aug 16-1941 Sat

8-30 Shells + 160 Walker

9-a Re-chain E-Line OK 188.

$$+ 41.3 = 229.3$$

11-AM Figure

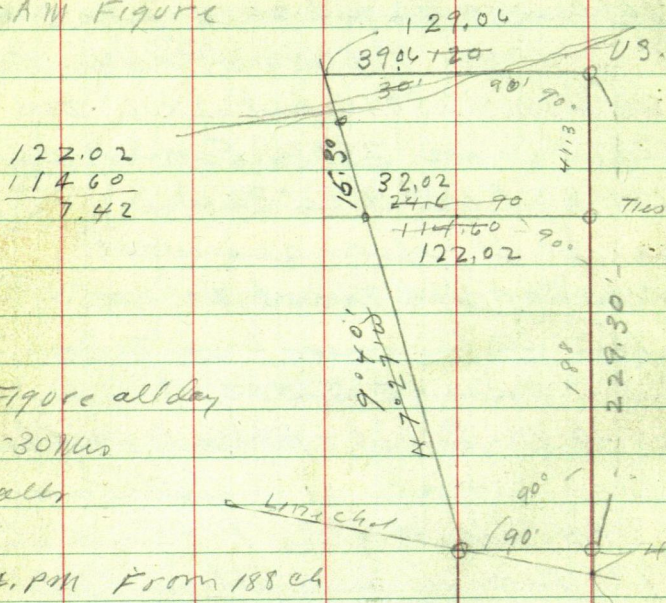


Figure all day

3-30 Nov

Call

4. PM From 188 ch

Wert $114,6 + 7,42 = 122,02$

Had RR spike π over 122.02

Run N 9°40'W 15.03 Lf 2x20"

pipe on seawall 7 ft up

18 ft from water

4-05 рм.

— 90' —

$$L. 130833 \text{ (P)} = \text{Tang} = 7^\circ 27'$$

$$229.3 / 30.00$$

NG

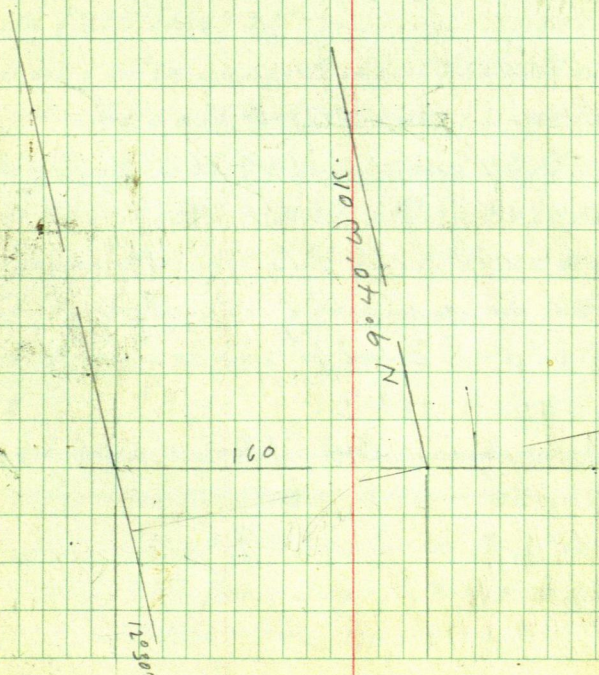
$$7^\circ 27' \text{ Tang} = 130765$$

$$130833 \times 188 = 24,60 + 90 = 114.6 \text{ OK}$$

We try $7^\circ 27'$ Won't work

$$\text{Try } 12^\circ 30' \text{ Tang} = 221695 \text{ OK}$$

$$\times 188 =$$



127.9
103

94.8
94.8
82.6
177.4

94.8
127.9
222.7

From Im 15.30 on Bank

Chain Westlily along Top of

Bank 8 ft Hi 94.8 15 E

8" Birch lies on N Edge of

Hi bank 10 ft from foot 20

ft from water Bank 7 ft Hi

6 wide on top

NW Hall Bk Mpls

4.45 to 5.15 go over the ground
with Mr & Mrs Jager and

Miss Podgett

From Hub 229.3 to a well
150²⁵⁰ Thence N 12°30' W 127.9 IM
on bank NW Co. Tract 2.

Then 127.9 BS S 12°30' E

8" Birch lies mtd 94.8 bear

N 47° 5' E 82.60 ft Crooked

8" 10" Birch

Water edge N 34° E 80 - North 30

N 34° W 20: S 65° W 100 Thence

Then West Quit 5-40 +

Aug 17-1941 Sunday

11 AM. I at Padgett Cottage
wait till 12-moon - Edger Jaeger
or with Miss Wilson P999. Her Mother
and Aunt

\$1.00

Deed

G.C.

Florence O. Padgett single - Henn Collins
TO

Louise L. Jaeger and Helen Hill

All that pt Gov Lot 2-10-140-31 lying E
of line drawn Nly & S. ly direction Ently thro
Lot 2 pl to E. side line of Lot 2. together
with full littoral, riparian & shore rights
in any wise appertaining to tract conveyed.

Also all that pt Gov Lot 2-10-140-31

Beget 229.3 ft so and 90 ft W From
NE cor. running NWly to apt 129 ft W.

from NE cor Lot 2. thence East 39
ft to pt 90 ft W. from NE cor then so to
pt of beg E. line as N-S. Extds to Ten Mi.
Lk = 3.8 acres +- Subject to R. of W. public
Highways - Subject Mineral rights re

Miss Padgett and I to Hoch. she signs
before Falk N.P. I take deed to E M Jaeger
rec ch 81750 from Jaeger Midland Nat Bkt
Trust Co Wflr - Dated Aug 16-1941

105

Aug 18-1941 Monday

at Ct Ho. on plat

N 9° 4' W

$$\text{Sine } 167916 \times 190.71' = 32.02'$$

$$\text{Cos } 985801 \times 188.0' = 190.71' + 15.3 = 206.01$$

$$\text{Tang } 170334 \times 188 = 32.02$$

$$\text{" } \times 229.3 = 39.06$$

N 12° 30' W

$$\text{Sine } 216440 \times 127.9 = 27.68 \text{ vy}$$

$$\text{Cos } 976296 \times 127.9 = 124.87 \text{ N}$$

$$\text{Tang } 221695 \times 124.87 = 27.68 \text{ vy}$$

N 9° 40' W 206.01 =

$$\text{Sine } 167916 \times 206.01 = 34.59 + 90 =$$

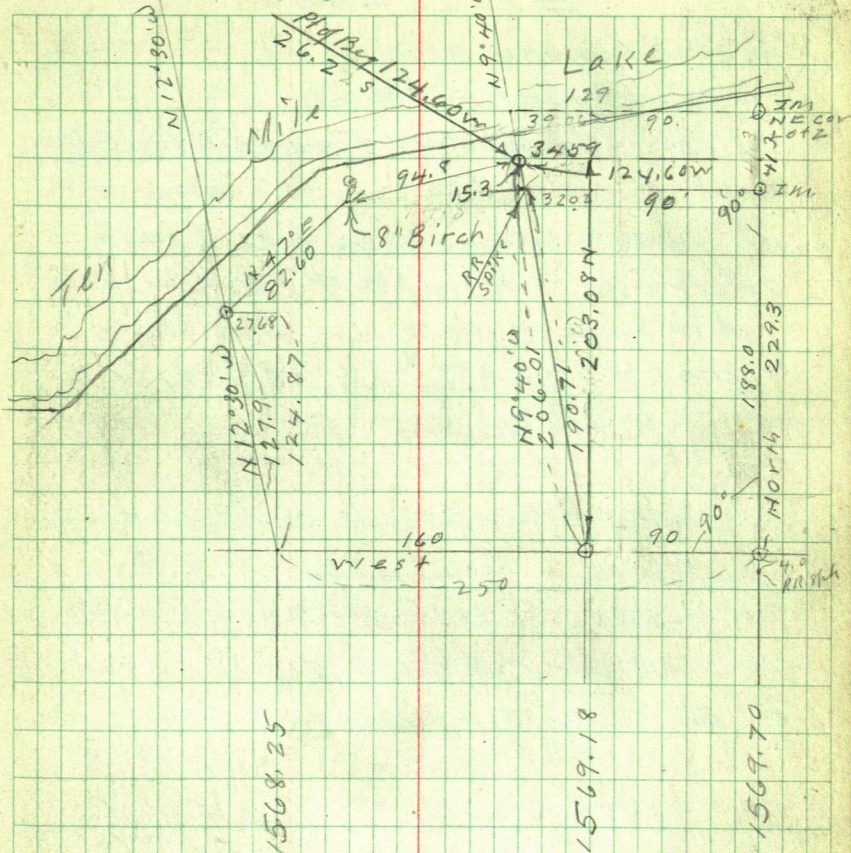
$$\text{Cos } 985801 \times 206.01 = 203.08 \text{ N}$$

$$\text{Tang } 170334 \times 203.08 = 34.59 + 90.00 =$$

Gov Lot 2
10-140-31

94.8
82.6
177.4

106



1568.25

1569.18

1569.70

160

90

N 89° 40' 0"

0° 20'
T 9119 = .005818 x 90 = 0.52
" " x 250 = 1.45

107

100

Cont'd From 99

EECrabb

200 Roanoke Bldg

DEC 18-1941 - PM

12.30 PM, Frank Shalts
and I work till 4-30 Call on
Al WOOK who gives me Crabb
address - Home @ 5 PM.

4 Hour @ 40¢ 1.00 Fr
Shalts I ^{Lend.} give him \$5. till
he is paid by Crabb.

Dec 19-1941 - Friday

Martha & I li Prod & back to Walter
Martha pays \$231.50 Tax in full
for all land at Jenkins Co. Can Co

Dec 20-1941 Sat

I work at Et Ho till 10-150M

Must lunch on street 8 ft log
Cut on WNW Shingabe Trip
To Box Factory Can take \$16 x 8 x 12 ft

Dec 20-1941 Could

Frank - Russell and I & Walker

11-15 AM Cut line and find
old stake on road Lot 6712

From SW Cor Lot 12 Ch 1455' 440

(-43) to old stake on line Lot 12

where we set π BS about 555' W

Tree on line and run N 23° 03' E

North 62 ft old stake from

ZM bears N 21° 32' E 87.5 to ZM

→ 1/16 Cor π over 1/16 BS S 21° 32' W

on old stake and line N 42° 30' W

North 79.25 Hub Look for old

ZM - @ 99.65 Hub on ridge

+ +

= Hub on Lake shore

South

@ 79.25 ZM Set π about 3 ft = π still @ 1/16 BS on old stake

S 21° 32' W Run N 40° 35' W

@ 79.00 old ZM @ 100 Hub on

ridge

NE Angle along old fence 75° 05'

Lots 2-3-B 2 Quit 5 PM

Frank Sholts 5 3/4 H @ 40° 2.30

Russell " " " 2.30

John W Curo

NG changed

109 Sunset Beach

(102)

198

2065

20
15

Dec 21-1941 Sunday 10 AM

Some Crew L Walker Cloudy

40° above - 14 miles

Bag @ Cor

Work 3-6-9-12 + 120 = 1320

RR Spike & Road Station line

Red Oak 16N abt 20°W 56.00

Spr 13 S abt 50 E 31.65

1500 pm + 163.9 = 1663.9 ^{Hub on Hill}

RR Spike On Time Line

WP14S abt 45 E 41.50

NP 9N 45 E 31.62 Top of hill

1663.9 + 100 = 1763.9 Pm

+ 232.7

232.7
1996.6

1996.6 Hub RR Spike on line

See Page 96 Ties

WP15N 9°55' E 61.40

Red Oak 10S 70.10W at 58.60

1996.6 + 198.0 =

198.0

Hub on Top RR Spike on line

2194.6 Red Oak 8N abt 25 E 21.15

NP16 S abt 75 W 30.95 Sprt up

2194.6

Run over 1996, 6 Run

N 2'25' E @ 300 ft + 94.5 = 394.5

Tal PI E 4 lin + 180.2

Tal PI 2' E 4 lin 575.2

+ 180.2 180.2

Tal PI 1 1/2 E 4 lin 755.4

+ 149.5 149.5

TIPI Transformer 704.9

755.4 + 40.4 9

40.4

795.8 Hut RR Pphue

Run N 42°29' E 220.0 Ft.

To old Hut on to road fence
PM

Trees to 795.8

NP 14 N 59°30' E 8.00

JP 15 N 45°25' W 42.60

Run ^{510.4} on old fence

S 66°31' W 150 ft 1. SW Cor

66°31' = 23°30'

Since 3987

Cor 91706 X 36 = 33

111

(104)

EE Crabb.

Dec 21. 41 cont'd

Trs to SW Cor Blk 2

NP 8 S 71° W 40.90

NP 9 S 46° 30' E 14.25

Run South 136 Run 136

Trs R Oak 12 N 85° 40' E 13.35

NP 14 N 5° 10' W 37.45

Hub 795.8 Bears

N 18° 18' W 35.35

Run so

~~East~~ 136.00 so set 2x 20"

Pipe for SW Cor Crabb New

Tract 50 ft N of open swamp Run

East @ 75 ent open meadow

300 ft in about 75 ft so of pipe

375 Lr meadow run North 50

and SW

Cloudy - Fog - wet

at 36 ft so of SW Cor Blk 2 set

2 1/2 x 16" pipe Out at 4 P.M.

Figure 30 minutes for lunch

Frank Shacks 5 1/2 hrs @ 40 \$2.20

Russell " Same 2.20

Home in Walker 4-30 cloudy

and dark

John W. Cunn

105

Crabb.
Johnstone 112

Dec 22-1941 Monday

All OK at C.H. Copy Plat-Long Beach
1.15 PM. Russell Sholts and I
Lv. Bay Fire Shovel 15⁺ sacks 30
Fill up 3- at gravel pit
Run E Line Sec 11-140-31 Hiram T.

485.2554

(11)

RR SPIKE on Line

485.2550 4 1/4

Ties to 485.2550

W Oak 11 N 46°35' W 41.62

W Oak 12 East 31.75

1690.70

2194.60

To get the \angle at SE Cor Sec 11
Find 1/4 Cor 2640 ft N Work on
line on Hill 485.2550 of 1/4 Cor
Bet 11-12- P.O.T. Set RR spike 3" down
Oak 11 N 46°35' W 41.62
Oak 12 East 31.75 on top of hill

2 ft E of E N-S Road - Tower 2154.75
N BS on Cor 11-12-13-140-31 per line
North Thro 2x48" Galv IM - No cap
Extend straight line N to Ten
Mile Lake - Find 2x48" pipe set for
M.C. Whale East line Sec 11
Straight

113

106

Crabb

Dec 22-1941 Could

Check Chain So along road

 $3-6-9-12-15-18-21-2400-243=2157$

Should be --- and is 2154.75

Nati's Chaining roughly So over curve
of big hill No Plum-b-60-b we lost2.25 ft about what the big hill
look up OK. Recorded as 2640.
and is 2640-mighty closeDon't care much about length
but want the Course

X over True Cor 10

11-12-13-14-140-31

NW Angle Reader $91^{\circ}02'$ OK.

New Ties

WP 10 N $32^{\circ}50'E$ 111.60 + 50 = 112.10JP 11 N $66^{\circ}38'W$ 88.10 FeetNP 15 S $62^{\circ}50'W$ 56.65NP 12 S $16^{\circ}23'E$ 62.65

To New Spots at base

Old 2x48" IM- Cap Torn off
Tap Leann 0.45 N and 0.10 W
of base - True Corner is0.45 S and 0.10 E of Top of old
IM- Turned from True
line West

EE Crabb.

114

Dec 22/41 until 197

Drive West - Walk on 6" ice

X over 2x48" old Galv IM

Set by me year ago for True
W 1/16 Bet 11-14 - 140-31

Focus East on line line Flag
on Hill Top 2194.60 FT West of
SE Cor Sull - See Page 109 Run
East chain on ice 3-6-9-12-

1320 slake $1500 + 190.7 = 1690.7$

To Hut 2194.60 West

From West 1/16 run West

Set RR spike Hut on top of Hill

Russell set a line of small

2 inch slick on ice just so

old 2x48" IM - supposed to be
set 60 ft N of 1/4 Cor Recorded

Out at dark 5-30 Drive

Home to Walker - Slippery roads

1-15 to 5-30 = 4. Hrs 15 mts for

Russell @ 40¢ = \$1.70

75 + 15 = 30 miles for my car

(At 1582 E Lx ice NW-SK)

Total 1690.7

Careful chain

2194.60

3960 3885.30

3885.30

74.7 short

John W. Crabb

Johnstone - Crabb.

115 Dec 23-1941

10 AM Russell and I L. walk
From IM = W $1/16$ Cor Bit 11-
14-140-31 12u

West on line line @ 82.30

RR spike hut on Tap

Red Oak 5x about 10° E 4.20

W Birch 10 S. 10° W 33.95

340 ent low linker land

382.3 pin 430 LV Birch ent

Cat tails NW SE

485 in NW SE 682.3 pin in

930 ent cat tails 982.3

pin 1070 LV in ent Tan ssp

S 10° W N 10° E 1282.3 pin

+ 12.5 =

125

1294.8

IM in Swamp Cor

10-11-14-15-140-31

From IM Focus IX on my
old Random Pg. 64 Tan

R $89^{\circ}45\frac{1}{2}'$ T. true Line East

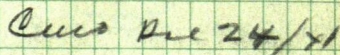
Focus East on True

Line Random Line Run

N $0^{\circ}13\frac{1}{2}'$ E ~~N. $0^{\circ}14\frac{1}{2}'$ E~~

116

check this on Page 64 This book OK.



117

Crabb

Cut out old π line

South 600 ft set stake

Drive East

Work π on line stop point24.8 West of stake whd 1320 E^t
on ice

1320.0

24.8

1295.2

At 1295.2 East of West '116

Can we drive RR spike in ice
for TRUE $\frac{1}{4}$ Cor Bet
Sec 11-14 - 140-31 π over $\frac{1}{4}$ IM 2x48= W. 1/4 set North 90° 1/2 line
line 60.2 ftFocus So on new blaze
spike 7 ft up on 12" x on N-S
St & Sec 14 - IM on N. bank
of Birch Lake bear

S 0° 52' E

Page

Walk So over ice and from

IM 3783.8 N ch on ice

North on ice 3-6-9 pin on ice

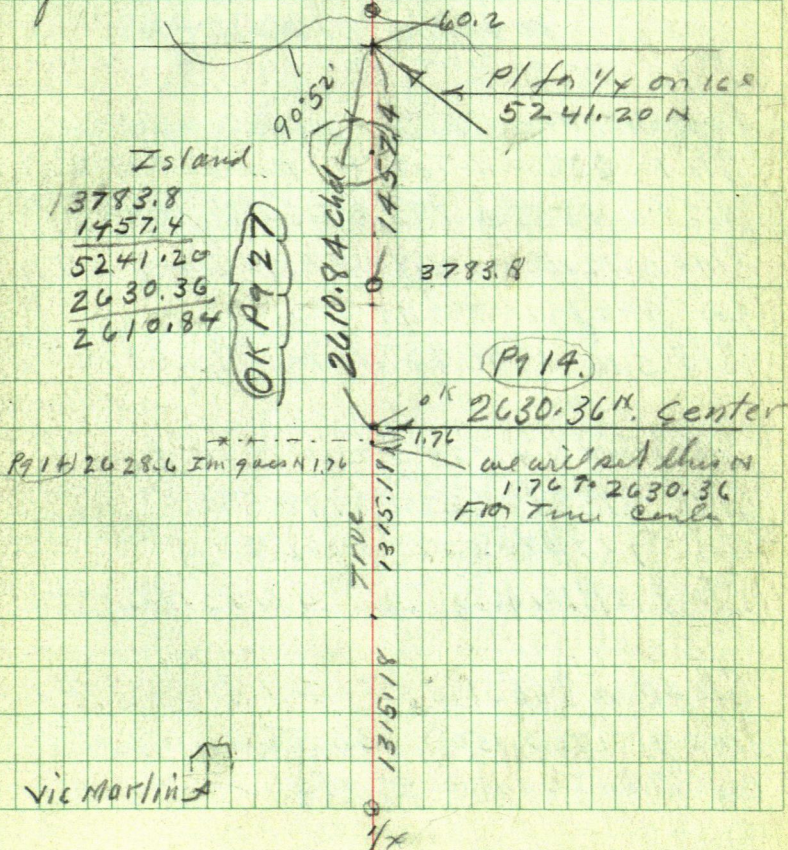
945 ent Island NE SW

Johnstone L 16-14-140-31

118

$900 + 105.5 = 1005.5$ Hub NRP on
 Island 16" Elm West 4.30
 at 1084 L_U Island SE NW.
 $1200 \text{ fin on } + 257.4 =$
 1457.4 The $\frac{1}{4}$ Cor under K

Out at 5-30 PM = 7 Hour
 for Russell @ 40% 82.80



119

Crabb.

Dec 24 - 1941

10 AM Russell and I
Come to C.H. FigureMr. Kolj calls and
loan me his Monroe
Russell and I quit at noon
2 Hours for Russell exc. \$0.80
Sleep in P.M. at home

Evening book in office

Figure

Page 96 - 110 -

Sta 1 = SECOR 11-170-31 Run W N 1996.6 (2)

Sta 2 Run N 2°25' E 795.8 To Sta (3) Pg 110

Sine $042166 \times 795.8 = 33.56$ EastCos $999111 \times 795.8 = 795.09$ N

Sta (3) is 1963.04 W - and 795.09 N

Sta (3) Run N 42°29' E 220 Pg 110 To Sta (4)

Sine $675376 \times 220 = 148.58$ ECos $737474 \times 220 = 162.24$ N

Sta (4) is 1914.46 W and 957.33 N Sta (4)

Sta 4 Run S 66°31' W 150 ft To Sta (5) = SW corner 2.

Sine $917176 \times 150 = 137.58$ W To Sta 5Cos $398482 \times 150 = 59.775$

120

S1/2 5 = SW Cor B1K 2 =

mol 897.56 N = 56.5

Sta 6 is 1952.04 W and 761.56 N = SW Cor
Cobb Tract

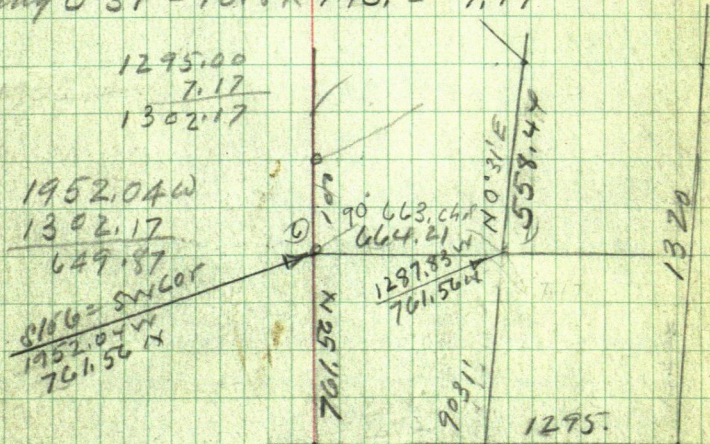
Since $313992 \times 35.35 = 11.10 \text{ W}$

Cor 949425 x 35.35 = 33.5614

S/L ③ is 1963.14 W and 795.12 N

Close Check. OK

From Sta-6 Run East

$$\text{Tang } 0^{\circ}31' = 9018 \times 795, = 7,17$$


Christmas dinner with
Gertrude + Harold

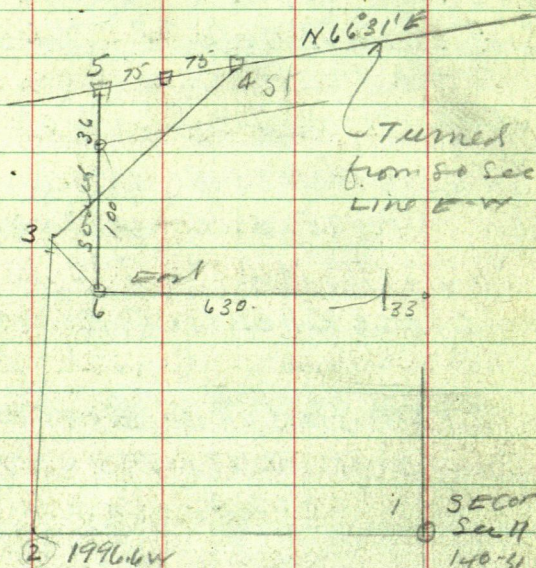
121

EE Crabb

Figuring $N \frac{1}{2} SE \frac{1}{4} N 11-140-31$

Dec 25-1941 La P 9111

To put in Crabb Tract Contain E

Then $N 66^{\circ} 31' E 524.9$ To $\frac{1}{16}$ Cor

Martha and I L. Walker @ 11 AM

Eat Christmas dinner with
Harold and Gertrude in their
new house at Jenkins.Rec ch^s 30 from Crabb.

8 10 To Harold \$2 To Wilfred

Geo. J. Johnstone

122

Dec 26-1941 Friday

Up @ 5 AM - Eat at 6-8 AM I & Ruth
Harold Curo and Walt Miller

From NW Cor Sec 14-140-31 Run

pg 116. South on my old random line

Run 30 years ago $S 0^{\circ} 14' E$

South bet 14-15-140-31

300-600 stake 650.70 Hub

R.R. Spike Balsom $9 N 36^{\circ} 15' E 13.85$

Spruce $10" N 38^{\circ} W 20.25$ Spots bare

All Hubs RR Spikes - Dbl Cen Hubs.

P. Bob Chain 2 Spots all Ties

900 pin 1100 Lv Green Tam S wp $4" E$

1174 Old Road NE NW Ent Hills

1194.6 Hub. Pop $7 N 72^{\circ} 35' E 19.45$

Spruce $3" N 59^{\circ} 28' E 21.65$

Birch 3 $S 73^{\circ} W 2.70$

1200 pin 5.4 From Hut. 1500 pin

+ 199.4 = 1699.4 Hut

Red Oak $5 S 55^{\circ} 48' W 19.00$

" " $4 S 54^{\circ} 02' E 8.20$

1700 pin 0.6 from hut (1500 + 200)

12-08 Noon Walk 2200 FT N

Eat over lunch at Camp fire at

Car = Trap Road.

123 Dec 26-1941 cont'd PM

South bet 14-15-140-31 cont'd

1700 + 3 = 2000 - Small Stake 125 ft

NW of open Swamps 300 x 700 - N-S

2025 Cross Fresh Deer tracks

Runway E-W 2300 pin (2150 to

2400 Box 50' East

12.02 PM - quit for dinner Sept 122
PM.

2300 + 188 = 2488 Hat

W Pine 20S 73°10'E 25.30

Pop 7S. 37°35'W 18.85

2 x 48" Capped Goly IM

1/4 Bet 14-15-140-31 bears

S 39°06'W 187.00 Feet

Ties to 1/4 Cor

Birch 6 N 50°30'E 38.90

W. Pine 14S 17°25'W 22.60

Turned from Random

Good fence runs N + W - post fence E

1/4 Set by me 30 years ago

From US B.T.S. - Old trees lie near

Walk to cor - Put in E 1/4 Cut line

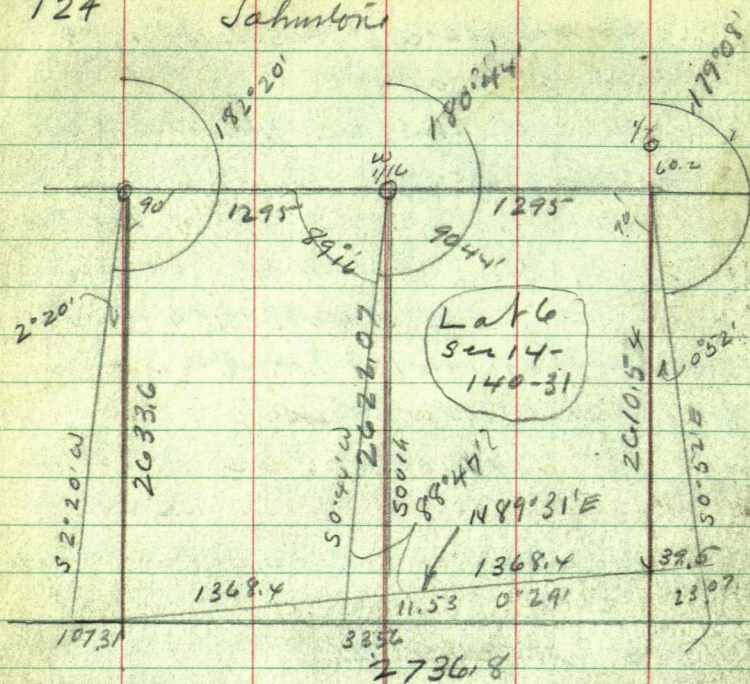
Quit at 5 PM - 6000 ft

Harold 8 Hours @ 500 ft. Walk same

John W. Curo

124

Sahmton



S 0° 52' E 2610.54

Tang = $15127 \times 261054 =$

179° 08'

S 2° 20' W 2633.6

1 36

Tang = $40747 \times = 107.31$

180° 44'

S 0° 44' W Tang = 12800

1 36

128 X 2622 = 33.56

181 80

60

20

1368.4) 11.53 =

12950

39.5

33.6

1368.1

Lot 6 - Sec 14 T40-31 - Geol. Johnstone

Dec 27-1941 Sat

Walt and I pick up Harold Lv
Jenkins 8 AM.

Aloe π over W $\frac{1}{16}$ IM bet 11-14
140-31 - Focus East R $90^{\circ}44'$ Run
South on True Line ($S. 0^{\circ}44' W$)

@ about 75 seawall 100. enlin Ice on
Birch Lake NE SW 3-6-9-120 pin
mice 1330 TO 1335 Lvico NW-SE
Runs SE 100: Then N $60^{\circ}E$ 500+ - Then
N abt $20^{\circ}E$ 300+ - To point Estimal.

See Page 19. This Book for bal
of lake shore. - (At 1335 S. old Fenu $40^{\circ}E$)
1200+ 195.5 \pm 1395.5 Hub ^(old Fenu $3^{\circ}E$ at E.)

White Pine 10 N $62^{\circ}04'W$ 47.45

Elm 14" S $50^{\circ}15'W$ 20.40 -

Enter green Swamp: Elm - Spr
Birch - Tann - Balcon. 1500 pin

1740 Lv SECOR of Swamp Ent Hills
1500+ 388.2 = 1888.2 Hub on Top
Hi hill. Roading. (150 So of Swamp)

10 ft E of old N-S. Fenu

1888.2 Hub RR. Spike { 1" PIPE ^{OVER SPIKE} Flat about
5" R. Oak N $21^{\circ}51'W$ 9.90 / at base
6" " " West 15.80 / other spike
3 ft up

Geo. J. Johnson

126

Dec 27-1941 continued

1888.2 + 11.80 = 1900.0 Blah 10' E of Fence
+ 50 + 1950 Pin Then over deep

Swamp Draw 300 to 2250. pin
+ 62.70 = 2312.7 Hub on Top.

3 ft E of old N-S Fence

Twin Red Oak 5-5-9" at base

S 47° 15' W 17.80

7" Red Oak S 24° 53' E 11.20

225.
1.76
99

+ 300 = 2612.7 pin + 9.3 = (on old
N-S
Fence)

2622.0. Hub True 1/16 Cor

SW Cor Lot 6-14-140-31

Red Oak 8 N 65° 01' E 33.45

White " 8 N 64° 47' W 42.50

Van Reads 6° E

Then To Check we cut line

East 80 Rods To SE Cor Lot 6.

NE angle reads 88° 47' Course

N 89° 31' E 1368.4 Ft Fgd (close run)

No chain Hit 0.99 of foot and pt for 1/16

Our line hits out 2.75 N of old iron
pin 1.76 So of pt for True 1/16 Cor Pz 118.

SW Cor Lot 6-Set 2x26" pipe

NW Cor Lot 6 Set 2 1/2 x 48" pipe

5 PM. Back to the Car

87.5 = 8 Hours Harold 34°
with 41.00.

Dec 27-1941 Cont'd

Nati: All Hubs R.R. spikes,
Our line East run perfect
Hub and ball stakes set about
every 300 ft - Deep Haler-Hi Hills.
I may set one or two of the
Hubs on the East end a few
inches so to line line or I may not
Too close already.

The West line of Lot 6 - set
double Center Hubs (about 2"
spread in 500 ft. OK.

Slight lines All a

Dam Close Check - Lines all
Well cut out All I am to
get for this Johnson Survey of Lot 6
is \$50. Too cheap - Should have
been \$150.-

Nati: I Am - I run in to
Walker + back - at 6 o'clock 12 noon
Home to Jenkins

John H. Cress

128

Dec 28-1941 Sunday

At Jenkins: Bright Sun-crisp

Almost no snow

Ashley Mc Kinley & wife ar from
Brainerd 10-30 AM.

12-noon Martha Lvs for Brainerd
with McKinleys I sleep all day at Jenkins
Get wood at Piquet

Dec 29-1941 Monday

10 AM Take wood to Walker & back to
Brainerd. ar 5-05 See Judge Kinder
get Car license - pay Mrs. Early
Martha & I to Jenkins at 7-30

- Dec 30-1941 Tues

Ar Walker noon - send out bills (2)

Dec 31-1941 Wed Rec Chas. Nelson \$100.

Johnson \$50 - Ellison \$37.50 Co \$48 -

Give Harry Paddock Co Ch.

Deput bal Pay Fst matl \$35 Gauge \$35

Pakusky \$10.

Jan 1-1942 - 86" to Shelly

Jan 2-1942

Crabb.

129

1-30 P.M. L.V. Walker with Russell
Shultz-Balf T. over E $\frac{1}{16}$ Cor Bet
11-14-140-31- No Iron- only 1x3"
balt EEW Road 1295 W of SE Cor
Sec 11- Ties

Oak 24N $37^{\circ}06'E$ 46.00

WP 20 S $24^{\circ}20'E$ 54.40

Turned from true EW Line to
 $N 0^{\circ}31'E$ on true $\frac{1}{16}$ line

NORTH @ 33.00 RR spike Hub

@ 300-600 pin 468.2 Hub

+93.36 = 761.56 = SE Cor Hub

Crabb Tract-

$761.56 + 3 = 1061.56$ pin +97.04 =
1158.60 Hub

All Hubs RR, Spikes 300' ch

Quit at 5 pm - = $3\frac{1}{2}$ Hours @ 40c

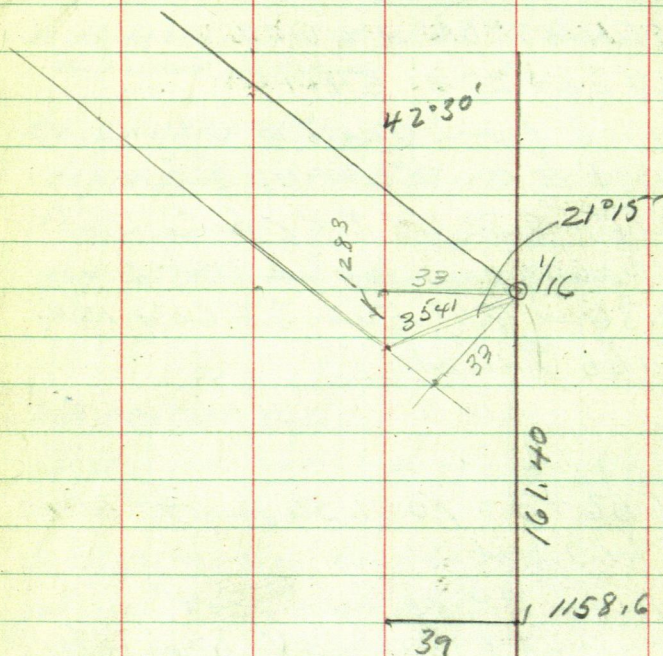
Horne & Walker 5-25-

See pg 120.

130 Jan 17-1942 Sat

9-35 AM. Russell Shells
and L. Walker

Buff T over 1158.60 + 161.4
= 1320.



21°15'

Sine $362438 \times 35.41 = 12.83$

On $932008) 33 = 35.41$

Tang $388879 \times 33 = 12.84$

N. 1/2 d.

Crabb.

Lv @ 1-PM Arrive 10 walk to dinner

PM 2-30 Lv wake + back

Ties to $\frac{1}{16} = 2 \times 30''$ jkOld IM $\frac{1}{16}$ bean

S 84° 18' E 23.85 ft

Pap 10 S 107° 0' E 10.60

" 9 N 41° 55' E 12.25

we try to fit our liner to the
 plat. Work till dark. Cloudy
 Heavy Fog all day 35° above
 Almost no snow. Quit at 5-30
 One Hour out for dinner = 7 Hours
 for Russell @ 40° = $\$2.80$

Home at 6- Reed and I cross
 Leech Lake ice via Onizum
 to get wood for Reed.

132

3625-

Jan 19 1942 Monday
 12-50 PM. Russell Shalts
 and John W. Curo L. W. Walker
 T. J. Jones IM IV NW $\frac{1}{4}$ Cor
 1 F NIX

Run N $36^{\circ}25'W$ @ 79.25
 set square $\frac{1}{2} \times 9"$ Bait IM
 in E wheel track on hill
 Continue N $36^{\circ}25'W$ 119.25
 set Hutton Lk Bush 30 from
 water Nati Tree for E

2nd Run N $36^{\circ}36'W$ OK?
 @ 79.25 set 2nd spike
 in E wheel track = 60 ft
 nail 0.30 W of 1st spike
 OK True line
 N $36^{\circ}36'W$ 79.25 + 119.35
 = 198.6 Hit old stake and set IM OK
 18'18'

Sine 313992

Cor $949425 \times 34.76 = 33$

Tang $330718 \times 33 = 10.91$

From SW Cor Curb Trail ch E 3-6-30-
 680. RR spike in SW side Hutton. Curb sec
 33
 663.00 True line

E.E. Crabb

113
21
198

133

T. run 34,76 Pm N $36^{\circ} 36' W$
@ 75.0 Huber ridge + 75.2
= 150.2 $\pm W \frac{1}{2}$ Pop 12'11' West
2" on line @ $75 + 113 = 198$
188 old Huber to shore set Im.
Ptn Im. 30 ft from water

Im on E side of Str
about 11.3 x 11.3 pm NW C7
Platted Lot 3 and plots

Shall's and I work till 5-30
Then drive west and till
at Wood the survey is finished

Note: In this survey:

- 1st: I establish the true N 1/4 Cor
- 2nd: We establish a line 33 ft W.
- 3rd: I stake out the lake shore
and set stakes exactly where
the old stakes were set along
the lake in plat of

134

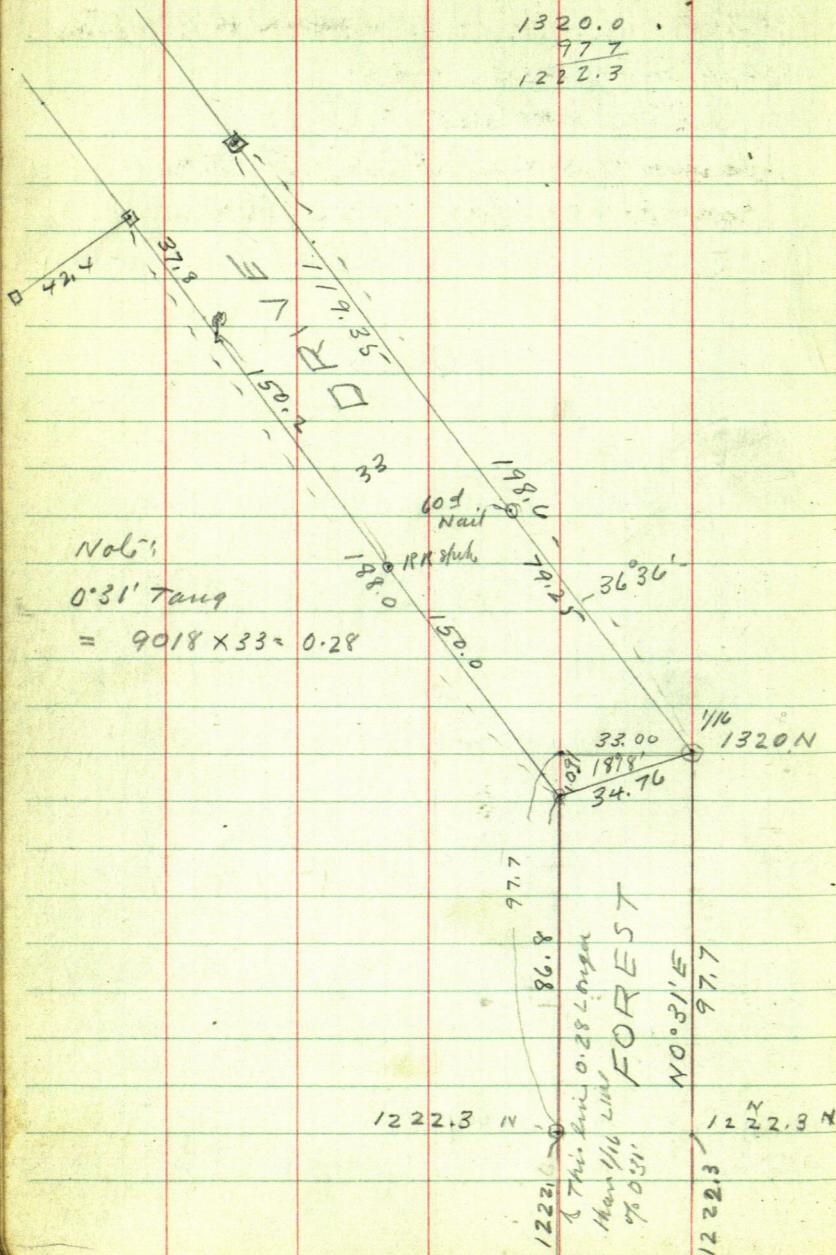
"50"

1/16
⊕ 1320N

scale = '50'

977

1222.3



1
Hiram Twp 140-31 137

Working for Leo Brown 321 Empire
Bank Bldg - up to 1st floor

Contract #360

Journey of 400 Lots 1-2-3- See 18
140-31 N. Shore Crysot Lone

138

2

Sunday May 2-1948

Glen Miller and his car take
Walt, Elsie - Donald and Jack
Cano to Crystal Lake Via Akeley
To Lots 1-2-3 Sec 18-140-31

Monday May 3-1948 Monday

Dinner at Walker - Walt eats
with us

140 May 3⁴ 1948 Could

Time Sheet Working for Leo Brown Contract \$360

May 1948

2

3 4 5 6 7 8 Sun

John W Curot

7 6 8 8

8 4

Expense Gas - old 3.25 Linn

8 5

0

Harold Curot

6 8 8

4

Harold's Car

35 35 35

35

Kenn Miller

7 8 8

0 8 23

His Car

35

0

Walt Miller

7 6 8 8

0 8 29

Elsie and Don

V

0

Antony and Kids

V

0

142 May 3-1948 ⁶

I and Harold and his Car pick up
Walt Miller who eats dinner with
Harold 1.00 PM Via Hixley
(Allen went to Laporte)

On Crystal Lake

Town Line

O.O. 600 Spike where old log road
Crosses Twp line 298 ft so of NW Cor
Sec 18-140-31

Cut new line 300 Stake 552.7 Hat
600 Stk Van reads 7'45"

752.2 Hat 900 Sta 1028.7 Crown fence
1200 1289 Hat 1454

MC Set East 8.2 Fence post sets
East 8.2 ft Home @ 7 + PM Walt
Harold + I home @ 7-30

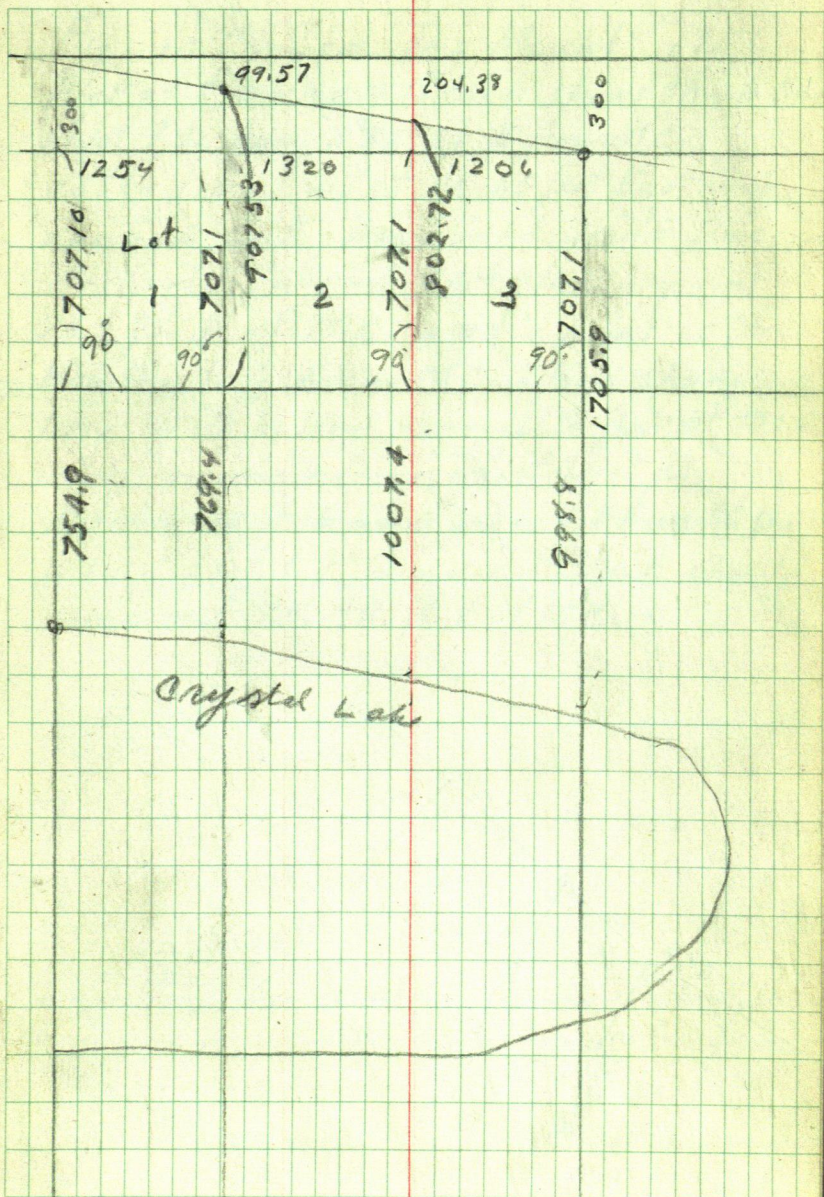
$$\begin{array}{r} 1028.7 \\ 752 \\ \hline 276.7 \end{array}$$

$$\begin{array}{r} 1454 \\ 1289 \\ \hline 165 \end{array}$$

May 4-1948 Tues 7

143

Glen-Walt-Harald and JW @
in Harald's Car Lv Walker 10 AM
Work at Crystal Lake Back @ 7



146

Rough sketch of Platts Plainview Beach-Lot 1 Sec. 15-140-31 Gr
& Peaceful Valley, Lot 4 Sec 10-140-31 by Spain

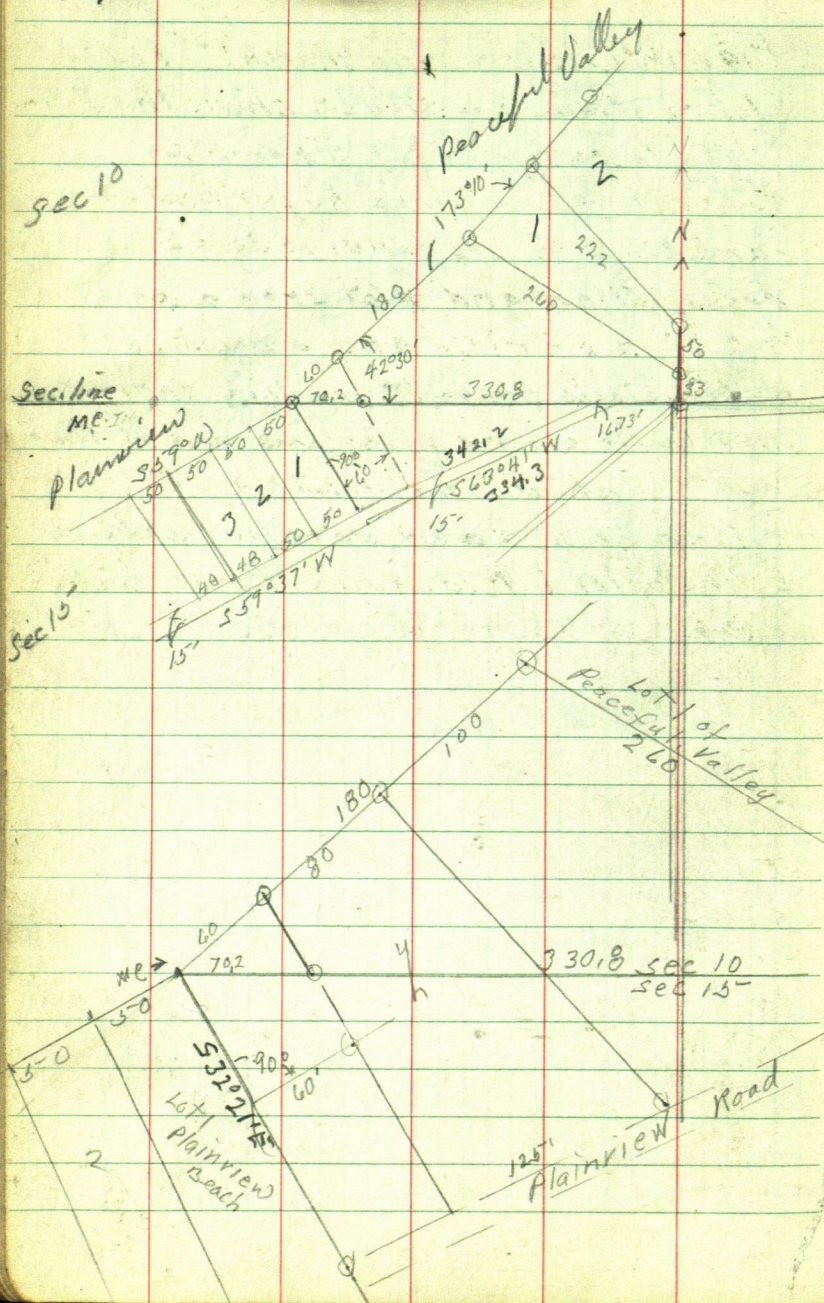


Fig. in Office Thu March 1st 1956
 Plot of Plainview Beach shows the E line
 of lot 1 to run $S 32^{\circ} 21' E$ from M.C.
 as the line I want is 60 feet East and
 run $S 32^{\circ} 21' E$ parallel to said E line
 description and plot show a point
 70.2 ft E of M.C. and a point 60 ft
 Northeastly from M.C. a long shore
 line with a line running from pt 70.2 E
 to 60 ft on shore line. in Lot 4 Sec 10
 a line 60 ft E and parallel with the
 E line of lot 1 Plainview Beach should
 come out 75.48 ft E of M.C.

33
 50

Road

Road

148

March 1-1954

copy letter received Feb. 17-1956

Mr. Harold Curo, County Surveyor

Cass County

Walker Minn.

Dear Mr. Curo

My Wife + I hold title to a tract of unplatted land located partly in Hiram twp. Cass Co Minn right along the south side of Ten Mile lake near Plainview addition. Since acquiring this property a portion has been sold to Al Woock

We are wondering if you would have the time to plat our tract staking the boundaries and on the plat showing the location of the improvements in relation to the lines of the property. If you are interested in this work, we would like to know the cost. We would appreciate hearing from you

yours truly
John W Coughlin

Nov. 22. 1954

John W. Coughlin

Vice President

McKinney + Allen Inc.

Sioux Falls South Dakota

Dear Mr. Coughlin

letter - description etc.

To check the lines and put in I.M. at the corners. Making a plat showing the true location of the buildings will cost \$100.
yours truly Harold Caro.

Feb 28-1956

McKinney & Allen, INC.

Insurance Loans Real Estate

100 N Phillips Ave Tel. 4-7081 Sioux Falls SD

Mr Harold Caro

County Surveyor

Walker Minn.

Dear Mr Caro

We would like to have you plat our property on Ten Mile Lake. We understand the cost will be \$100.00 and when this work is completed you may bill me for this amount. This plat we would like to have filed at the Court House and in Addition, We understand you are agreeable to showing our building as Located on this tract.

I presume that this parcel will need to be identified with a name and so in filing this plat you can call it Coughlin Beach
over

In 1949 we purchased a sizeable tract of land in this location and in 1950, deeded a portion to Al. Woock, this matter was handled by Ed. Rogers and an associate of his at that time a Mr. Renner. We were to retain title to property which is roughly located as follows:

Our lake frontage was to be 80 feet starting from the stake at the corner of Joe Welsh's lot. At the rear along Plainview Road. We were to have a frontage of 125 feet starting from Joe Welsh's corner on that side then our easterly boundary would be that line from the point 125 ft. at the rear diagonally to the point 80 feet on the frontage.

I hope that your plat works out so that this is correct for that was our understanding

yours truly
John W. Caughtlin
Vice President

Fri. Mar. 2 - 1956 I drive to Albert Thomas to see if he can help me with the work. He has to haul logs. I talk to Al Woock he says I may in but snow awful deep to see Joe Welsh

who live right next to Coughlin's cabin to the S.W.

March 5 - 1956

I drive to Ten Mile Lake to see if I can locate I.M.'s
Lv Office at 10:30 drive to Joe Welsh's place.

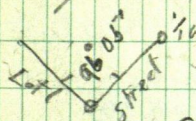
April - 20 - 1956 - John - Bob & I drive to Joe Welsh's place on Ten Mile Lake
Joe does not seem to be home We find the SE corner of Lot 1 Plainview Beach
- Town SE cor Lot 1 - Plainview Site on NE cor Lot 1 - 2 ft from M.C. not quite on line

Turn 90° R. set spike site on $\frac{1}{16}$ I.M.
angle reads $96^{\circ}05'$ set 60 ft spikes

and draw a line to mark

the N line of roadway
chain from S E cor Lot 1 E

@ 90° 60 ft set pt. - Town pt 60 ft E of E line lot 1 Plainview Beach. set on pt 60 ft E of E line lot 1 drive nail in rail of fence on sun wall Transit telescope and set 60 ft spike on N line of roadway SW cor of Coughlin's property - Town SW cor site on $\frac{1}{16}$ cor and chain



153

$$\begin{array}{r} 30.2 \\ 3 \\ \hline 47.2 \end{array}$$

$$\begin{array}{r} 69.4 \\ 129.45 \\ \hline \end{array}$$

$$\begin{array}{r} 50.3 \\ 8 \\ \hline 42.3 \end{array} \quad \begin{array}{r} 79.8 \\ 5 \\ \hline 74.8 \end{array}$$

125 ft at 60° spike for Coughlin
SE Cor continue chaining 157.
ft to 1/4 I. M.

from SE Cor Lot 1 - to SE cor of 60
foot tract = 60.4 feet along roadway
W. line as N & S.

Then SW cor Coughlin Tract sit
along Coughlin's West line. Take
Garage.

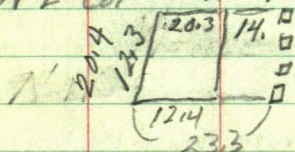
NW Cor R. $3^{\circ} 43'$ - 59.9

SW Cor. R. $4^{\circ} 43'$ - 40.1

SE Cor R. $21^{\circ} 37'$ - 42.3

SE Cor. opened on Garage R. $34^{\circ} 05'$ - 47.2

NE Cor " " " " R. $24^{\circ} 27'$ - 74.8
64.8



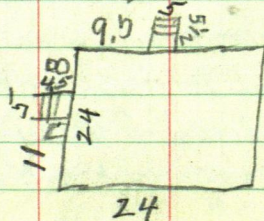
$$\begin{array}{r} 110.2 \\ 8 \\ \hline 102.2 \end{array}$$

House

NW Corner R. $26^{\circ} 30'$ - 120.70

SW Cor. R. $34^{\circ} 28'$ - 102.2

SE Cor. R. $42^{\circ} 45'$ - 120.2



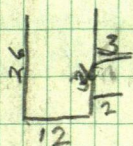
At St. Nat SW Cor Coughlin tract turn
R. $33^{\circ}32'$ - $42.3'$ to $60'$ Spike

Turn $60'$ Spike BS on SW Cor + run
out Location of Borthouse

SE Cor. R. $2^{\circ}00'$ - 129.4

SW Cor L $3^{\circ}24'$ - 127.7

NW Cor L $4^{\circ}20'$ - 157.9



April 30-1956

Don + I to Ten Mile Lake

Traverse SW Cor lot 1 Peaceful Valley
Site Northerly on NE Cor lot 3 same plat.

Turn L $173^{\circ}10'$ to MC, according to Plat
or $56'50''$ Walking course from lot 1 to lot 3 N,
should be $240'$ to MC

reads $7^{\circ}22'$ distance along line $180 + 54.4$

To IM 179.7

- From SW Cor lot 1 P.V. to IM $60'$ N of MC
is $179.7 + \text{Not } 180 - \text{from } 60'$ IM to IM
 $2'$ S of MC is 59.7

Tower I M SE cor lot 1 P.V. 33 ft
 N of $\frac{1}{16}$ I M site S on $\frac{1}{16}$ Turn 90°
 set spike on offset 33 ft line past
 house Tower spike B on offset
 line turn 90° set 60 ft spike 33 ft S. on
 sec line. Tower M.C. I M. site E on
 sec line set 60 ft spike 70.2 ft E on
 sec line T still at MC angle from
 Sec line to I M SW Cor Lot 1-PV
 bears $L 42^\circ 26'$

I M on seawall bears $L 32^\circ 32'$

Tower MC Site E along sec line
 Turn $L 42^\circ 30'$ @ 60 ft set spike Coughlin's
 SW cor @ 80 set 60 ft spike Coughlin's
 NW Cor.

Tower MC I M site E on sec line Turn
 $L - 42^\circ 30'$ according to plot on file of
 Peacefull Valley and run 60 ft set
 60 ft spike + 80 set 60 ft spike
 Tower 80 run $E 46^\circ 23' S = S 43^\circ 37' W E$
 @ 11.25 set pt for I M + 84.7 spike + 23.8
 spike + 107.9 I M SE cor of Tract

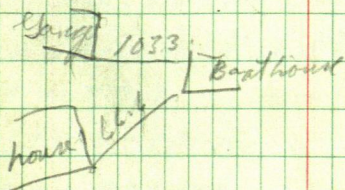
T still over 80 run $W 43^\circ 43' S 100.5'$
 to E sewer pipe.

move Tower 60 ft spike pt 70.2 ft
 W along Sec line from MC @ 13.25
 ran

spike on bank pt for IM + 35 ft pt for
IM. 70.2 W of ME. run East along
Sec line 1.2 to point on Sec line
60 ft W and parallel to E line 1 of 1
Plainview Beach

from pt on Sec line 69, ft E of ME
chain SW along a line parallel
to and 60 ft E of E line of Lot
1. of Plat of Plainview Beach
@ 148.3 set 60 ft spike Pt. for IM
SW cor of Tract (there is an angle
iron driven into the ground @ 144.8

Turn SE cor IM in & road
site N $43^{\circ}37'$ W along. Caught in
N line turn L $72^{\circ}35'$ SE cor
Turn SE cor site on NE cor
in road. Turn L $116^{\circ}05'$
inside angles



157

Joseph + Ella Walach

John W + Blanche S Coughlin

Alfred E Selma N Wood

$$\begin{array}{r} 110 \\ 1129 \\ \hline 2229 \end{array}$$
$$\begin{array}{r} 302.6 \\ 2229 \\ \hline 525.3 \end{array}$$

120 119.9
 7
 11219
 110

158

Sunday April 5th 1959

I stopped at Hackensack to see Vincent about property on 10 mile lake. He said He has sold Happiness Lodge Resort for Raymond A Kraft and Kraft has to have a survey before the papers can be made out. I tell him I will meet him (Vincent) at Happiness Lodge Sunday Apr. 5 at 9 O'clock.

April 4 - Kraft calls I tell him I will do Eng. work & write description for \$50.00. He does not like to pay that but has no way out.

Sunday Apr. 5th I take John with me to Happiness lodge as Kraft has crossed the N & S & to go west with his fence we run line between the 2 jud. more fence but on top chain # 302.6 to Sud Mon on R of W R.R. from spike on top chain N 110 x 112.9 = 2229 + 302.6 = 525.5 but on bank.

Now 525.5 to S N I M bears L n E 1° 12'

106.4 on E 2.3

1° 12' - 106.4

Sine 020942 x 106.4 = 2.23

Cosine 999781 x 106.4 = 106.38

525.5

106.38

631.88

159

Corrections

1391.8

631.88 into 2.23 = .003529137

= 0°12'4

hub 30216 S goes E 1.07

" 525.5 S " E 1.85 to line

we correct hub 525.5

Tower IM site N on N4S & line & ran

N 77°56'W 133.8 to IM on shore 10 M. h

Tower 133.8 site S 77°56'E run

N 3°41'E 85.3 ft Tower 85.3 BS S 3°41'W

run N 56°52'W 45.3 to IM

Tower 45.3 BS S 56°52'E run N 13°42'E

155.7 to IM Tower 155.7 BS S 13°42'W

run N 14°57'E 180 + 2.4 = 182.4 IM

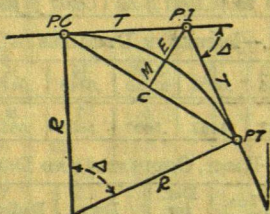
Tower 182.4 BS S 14°57'W run N 18°01'E

214.6 to IM on K&W RR

Tower IM on Map W The Lady Mon acts

S 21°22'E 38.65

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$$\text{Radius} = R = \frac{50}{\sin. D/2} \quad (1) \quad \text{Degree of Curve} = D \text{ and } \sin. \frac{D}{2} = \frac{50}{R} \quad (2)$$
$$\text{Tangent} = T = R \tan \frac{\Delta}{2} \quad (3) \quad \text{Length of Curve} = L = 100 \frac{\Delta}{D} \quad (4)$$

Middle ordinate= $M = R(1 - \cos. \frac{\Delta}{2})$ (5) $= R \text{vers } \frac{\Delta}{2}$ (6)

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$$\text{External} = E = T \tan \frac{\Delta}{4} \quad (7) = R \div \cos. \frac{\Delta}{2} - R \quad (8) = R \sec \frac{\Delta}{2} \quad (9)$$

Long Chord = $C = 2 R \sin. \frac{\Delta}{2}$ (10) Δ = Central Angle

Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T. $\Delta=62^{\circ} 10'$ $D=8^{\circ} 20'$. From Table IV for 1° curve $T=3454.1$ and $+8\frac{1}{2}=414.49$ ft. From Table V correction=.36 or $T=414.85$ ft. P. C.=Sta. P.I.— $T=157+45.50$. Also from (4) $L=746.00$ and P. T.=Sta. P. C.+ $L=164+91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 $(54.50 \div 100)^2$ =2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26)$ =2.16 ft.

Deflections.—Deflection angle = $\frac{1}{2}$ D for 100 ft., $\frac{1}{4}$ D for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^{\circ}$ or = defl. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{3} = 136.2'$ or $2^{\circ} 16.2'$, or $= 2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^{\circ} 16.2' + 8^{\circ} 20' \div 2 = 6^{\circ} 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 91.37. For from Table IV for 1° curve $E=960.6$ for $8^\circ 20'$ $=960.6 \div 8\frac{1}{2}=91.27$ and from Table V correction $=.10$ or $E=91.37$ ft. Or suppose $\Delta=32^\circ$ and E is measured and found to be 42 ft. What is D? From Table IV $E=230.9$ and $\div 42=5.5$ or $D=5^\circ 30'$.

$$\begin{array}{r}
 17960 \\
 4230 \\
 \hline
 13730 \\
 6845 \\
 2115 \\
 \hline
 9000
 \end{array}$$

810

$$\begin{array}{r}
 20 \\
 40 \\
 464 \\
 \hline
 1064
 \end{array}$$

$$\begin{array}{r}
 932008 \\
 3 \\
 \hline
 2796024 \\
 932008 \\
 5 \\
 \hline
 4660040 \\
 932008 \\
 4 \\
 \hline
 3728032
 \end{array}$$

$$\begin{array}{r}
 354 \\
 330000 \\
 2796024 \\
 \hline
 5039760 \\
 4660040 \\
 \hline
 3797200 \\
 3728032 \\
 \hline
 691680
 \end{array}$$

279-40
200 @ 1-42 = 199.99

365.19
98580