

256

DEUTZ

ENGINEERS
FIELD BOOK

NO. 03

Nº 256

Sept 3
SEC 18 142-30

Arthurs Point
Hac
Talb.

Note: This Book Nº 256
belongs to John W. Curo
Walker Minn

If lost; Finder
please notify the
owner - will pay for
the favor

John W. Curo
Aug 1-1941

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.

7762
183
29062

Hackensack District
Arthurs Point
Talbot P91 to 30

0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
6
7
8
9
0

be
roa
am
6 =

INDEX

140-30

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

2

Addresses

Adolphus R. Talbot Aug 20-1941

433 Stuart Bldg Lincoln Neb

Past Natl Pres. M. W. A. of America

Robert H Talbot (his son) Aug 20/41

Irving G. Chapin

David Arthurs

Car Shops Mt Vernon Ill

Adminstrator - Arthurs Estate

Maymont Survey - Woodruff

Talbot Survey
Sec 28-140-30
Gov Lots 3 and 4

Subdiv Lot 1-B1.
Arthurs Point

Aug 18-1941 Mr A. R. Talbot
called on Miss Podgett and
wants survey.

2

4 Aug 19-1941. (2)

Copy plat of Arthurs Point
About 10-am pick up Frank
Shalts and his lunch

At 10-30 Mr H.R. Talbot
shows me NE cor Lat 1-B1
Arthur Point. Tries to
find NW + SE Cors.

Mr Talbot gives me a blue
print of water survey of
Pleasant Lake (old Whitefish Lake)
water shed.

He says - "Keep the blue print."

Woodruff and
son call - we find stone &
small 1" pipe at SE Cor.

Shalts and I find 2m
at NW + SW Cors

Work on line and cut
out N Bury. Too late to
chain.

7 Hours for Shalts

10 for Cur

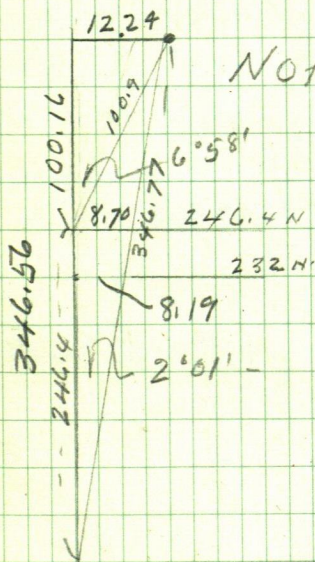
Cor 35 miles

Aug 20 - 1941 Wed

Copy Deeds at Reg office till
10-30

Shells and I back on work
11-AM. Quit 5-25 =

Cut out to line and wait
line



Not used:

Lines raked in

$$346.56 \div 12.24 = 0.3531855 = 2^{\circ} 01' +$$

$$3531855 \times 232 = 8.19$$

$$" \times 246.4 = 8.70$$

$$" \times 346.56 = 12.24$$

6 Aug 20-1941

$$6^{\circ}58' \quad 121292 \times 100.90 = 12.24$$

$$\text{Sine } 121292 \times 100.90 = 12.24$$

$$\text{Cor } 992617 \times 100.90 = 100.16$$

$$\text{Tang } 122194 \times 100.16 = 12.24$$

OK.

$$346.56 / 12.24 = 0351855 = 2^{\circ}01'$$

2°01'

$$\text{Sine } 035190$$

$$\text{Cor } 999381 / 346.56 = 346.77$$

$$\text{Tang } 035212$$

Plat Calls for

350.00

Our Ch

346.77

short

3.23

Aug 5-25

Shall's

7 Hours

Cur

10

Cor

35 miles

Aug 20-1941

7

Arthurs Point
Plat

Lab 3-4-Sec 28-140-30

Reg @ NW Cor of SW SE-28

East 225.1 ft 15' W of shore line

N 5° E 140

N 23 45 E 330.

N 47° 30' E 158. Stone

which is the most southerly cor
of Arthurs Point

Then

N 58. $\frac{3}{4}$ ° W 300 most south-westerly
corner of plat

N 30° 15' E 800 Ft to lake shore
and run

W H Hallett

Surveyor

Oct 26-1909.

8

Aug 21-1941 Thurs

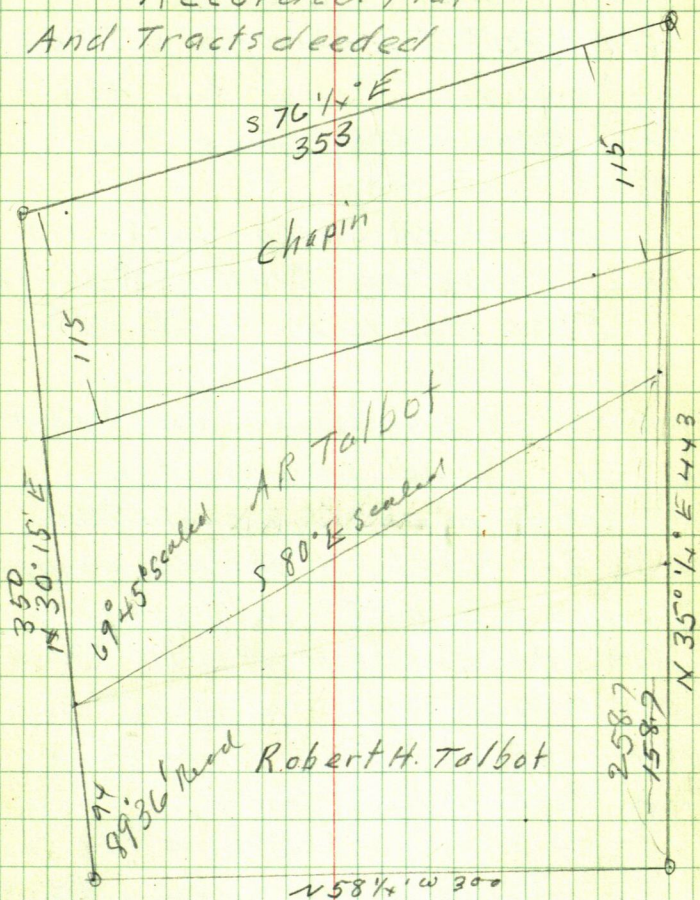
Figure at office 10-30 AM

Shalls and L. Walker 11 AM

Take lunch. - At 11-30 Cut line
till noon PM.

Cut out line line West
side - re-set hubs on v-side

Recorded plat And Tracts deeded



N

π over NW cor: SE angle
 reads $105^{\circ}27'$ B.S. $S30^{\circ}15'W$
 Run $S75^{\circ}12'E$ along v. line 86.0
 Hut on hill π over 86.0 Run
 $96^{\circ}R$, chain up hill 93.3 Hut in
 Flower bed

π over IM SW Cor Lot 1. NE
 angle of true lines Reads $89^{\circ}36'$ on
 Focus $N30^{\circ}15'E$. So line runs
 $S60^{\circ}09'E$ to H @ 209.85 pin in
 N. edge 12' pine stump - sawed flat
 top - pin $\frac{1}{2}$ inch from N. edge

From pin in stump chain 92.0
 to SE Cor Lot 1. = Small iron pipe
 $\frac{3}{4}$ inch. = 301.85 = 1.85 Long.

From NW cor ch West side $S30^{\circ}15'W$
 @ 98.7 Hut + 11.45 = 110.15 Hut on Top
 $98.7 + 155.7 = 254.4$ Hut 94. ft
 from SW cor Pt for IM

$254.4 + 94.0 = 348.4 = 1.6$ Short

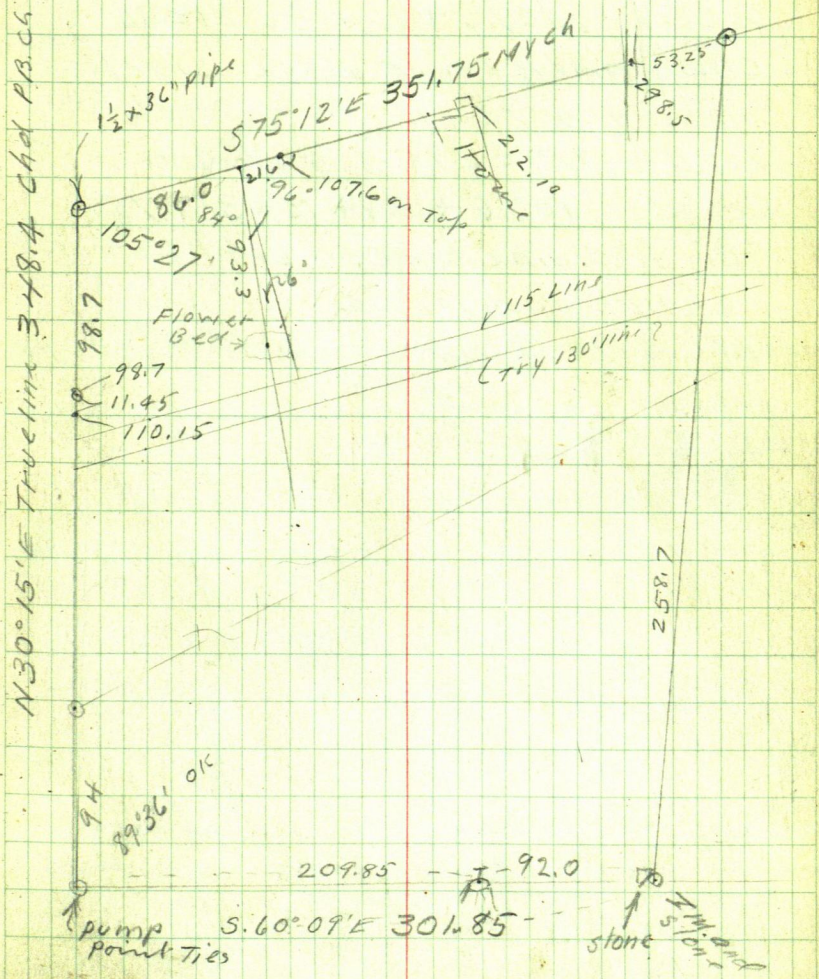
Ties to SW Cor Focus $N30^{\circ}15'E$

WP 10 $N44^{\circ}30'E$ 4.25 New spot at base
 Hallett's old mark 4 ft up

WP 15 $N44^{\circ}30'W$ 4.73 New spot at base

Two old spots 4 ft up not scribed

WP 16 $S14^{\circ}E$ 6.65 New spot at base
 spot 3 ft up



12

Aug 21-1941 cont'd
North side Lot 1-From NW Cor Ch E $S 75^{\circ} 12' E$ @ 86.0 Ht. + 21.6 = 107.6 Ht on top
N slope $107.6 + 104.5 = 212.10$

Chalk mark on E. Edge steel

Skel gas Tank - on N porch

 $107.6 + 190.9 = 298.5$ Ht & N-S-road $107.6 + 244.15 = 351.75$

Big iron pipe NE Cor Lot 1

= $2\frac{1}{2}$ inch open top pipe

Pm. 6-20 Aunt

119.31

110.15

9.16

$$\begin{array}{r}
 351.75 \\
 298.5 \\
 \hline
 53.25
 \end{array}$$

14 Aug 22-1941 cont'd

Rec Co Warrant N 66083 - 844.25

Allowed Aug 5. P^d Aug 21- 1941

Sign warrant and give it to Harry
Paddock

Dinner at Home

PM

2-PM Shells & I a

T over 93.30 continue in

22.33 To 115.63

115.63

93.30

22.33

1120.66

994522) 120.0000.

994522

2054780

1989044

6573600

5967132

6064680

120.66

93.30

27.36

124.50

110 15

14.35

6°R 120 = 120.66

93.30

27.36

Rain at 5-10 PM.

Home at 5-25 3 Hour

Aug 23-1941 Sat

Co Chuck 44 1/2 Paddock

All AM in Cliffs

PM. Shall and I on 1-15 PM

Eaton Lunch

Turn IM SE Cor Lot 1-Bh 1

Arkhus Point Focus

N 60° 09' W Turn

10" SP - old dead slab 8 ft hi

Hallett's Scribble Marker bear

S 42° W

9" SP. hi Hallett's Scribble Marker

S 44° E

New: SP 10 N 2° 02' W

" WP 9" N 62° 14' W

20' spike in N Edge

pine stump N 60° 09' W

Q Main Road N 60° 09' W 19.50 1/2

Q Privali Road " " W 60. "

Fork of Road S 53° W 77. "

Run N 28° 43' E To RR spike & Road

24" NP Scribbled by Hallett's

about N 32° 20' E Trace on line

We first layout the front line
of the double Bldg and pass
our line thro & double chimney

π @ Sta 4 on the 115 ft line P₁ 13-19
BS. N 75° 12' W parallel with N Line
Run S 47° 12' E 117.8 To Sta 5
= 28° R.

? π still at Sta 4. R on ^{38° 47'} S 37° 48' E
~~36° 25'~~ ^{36° 24'} R. 109.3 ft to Sta 6.

Sta 5 is at Right angle to
the Main House and the porch
and the line westerly would
pass thro the double chimney

To Sta 5 BS. on Sta 4
N 47° 12' W & chimney bear
N 88° 48' W about 160 ft distant.

As this makes Middle tract too
narrow in front Mr Talbot has
us throw the line thro Sta 6

38°47'
 X over slo 6 - BS N N 37°48' W
 on slo 4 & double chimney
 bear N 84°32' W 85°35' W

X still @ slo 6 - on line line
 I M on SECOR 120 ft ship west of Road
 bear N 28°05' E 61.2 ft & left west
 of & Road in curve

From slo 6 Run ^{85°35'} S 84°32' E

@ 20.8 Hat Pt for I M

@ 33.3 & main road

@ 45.65 Hut on ridge E of road 1 ft
 bank @ 48 E binh 9 ft above

lake shore @ about 60 foot of hill

@ about 65 ft's W end of Boat Ho
 about 0.40 of a foot so of so

side of only window in west
 end of boat Ho about 4 ft N of
 SW Cor

From slo 6 Run

^{85°35'}
 N 84°32' W along line line
 6 - 30 unit

18

Aug 24-1941 Sunday

9 AM L0 Shells + I @ 9-30

X over Sli 4 Check Angler

Sli 6 bears S $38^{\circ}47'E$

R. $36^{\circ}25'$?

X @ Sli 4 Take Bldg Pg 23

North Room Pg 23

NE Cor S $32^{\circ}37'W$ 37.4

NW Cor S $58^{\circ}52'W$ 59.0

Main Ho

NE Cor S $20^{\circ}45'W$ 46.7

Porch NE Cor S $9^{\circ}50'W$ 52.6

SE Cor S $5^{\circ}26'W$ 104.7

Q Cern Slipr E Edge Porch

S $7^{\circ}W$ 78.5

Check Angler Sli 4 to Sli 6 OK. Pg 17

Run S $38^{\circ}47'E$ to Sli 6

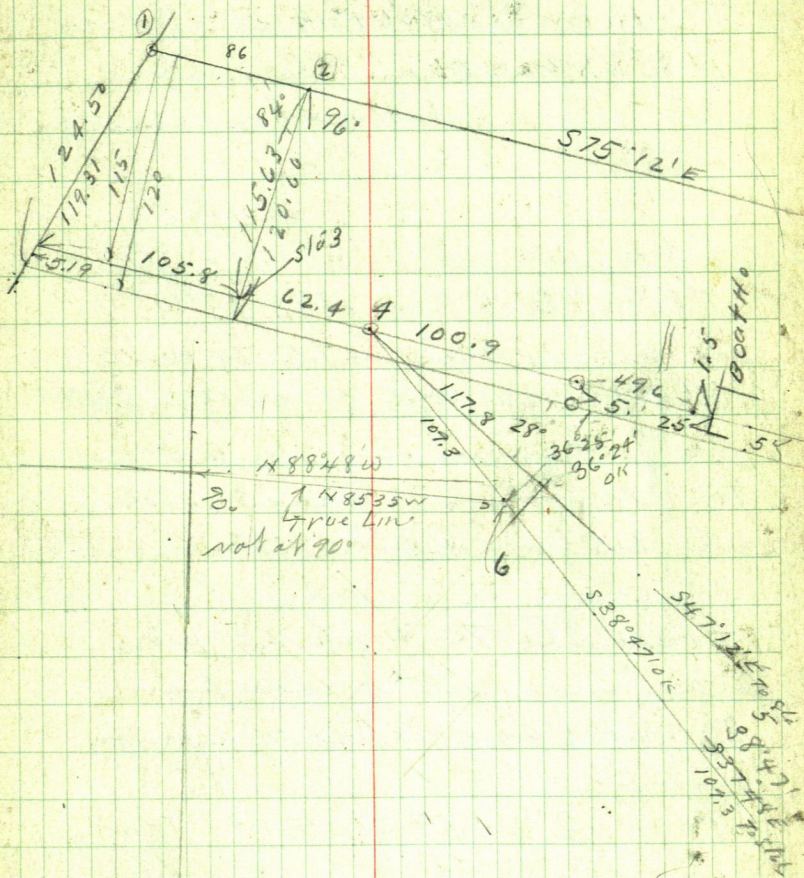
Talbot

8848

19

8535

3.13



20

178

5° 8' 20"

⌧ over Sla 6 BS on Sla 4 N 38° 47' W

Chimney bear N 85° 35' W

From Sla 14:6 Run

N 85° 35' W @

@ + chalk mark on cement
slips

47.5

Eat lunch - PM.

From Sla 6 Run N 85° 35' W
along line line 47.5 to Hub

Sla 7, ch N 85° 35' W 13 to Sla 8

Sla 8 continue 13.3 to E Edge

Top Cem slips 1.8 from So side
and 3.65 from N side stone

⌧ over Sla 7 Looking E on
line line - cut window frame
2½ inches so of So side of window
frame.

Run 60° L 58.28 Hub on Top

41.72
100.00

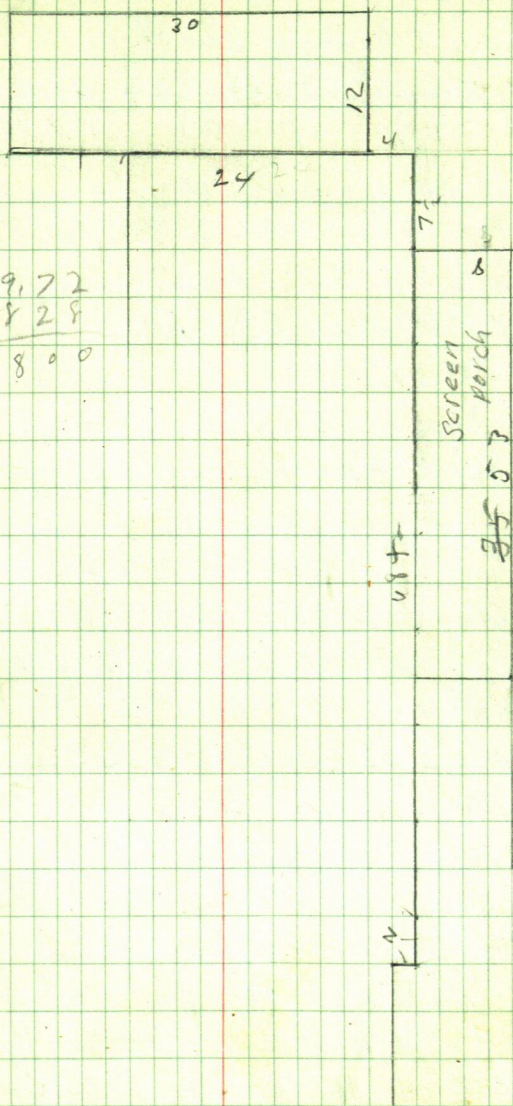
58.28 + 41.72 = 100

58.28 + 49.72 = 108

108 + 9 = 117 Hb. - 1 = 116 Hb

Sla 8

$$\begin{array}{r} 49.72 \\ 5828 \\ \hline 10800 \end{array}$$



22

K @ Sta 9 BS on 7- Turn 60° L
chain 116 Hub Sta 9

check First Leg $58.28 +$
 57.78 $\underline{57.72}$

OK 116. Sta 10 116.00

K over Sta 10 BS on 9
 60° L To line line and run
 $S 85^{\circ} 35' E$ on line line 24.45 Hub
pt for IM.

@ 26.55 Blue cross + in west
end of Ice Hs $4.4 E$ of NW corner
Ice Hs 16 ft wide on west end

From Sta 10 Run $N 85^{\circ} 35' W$
on line line @ 22.5 to Private
Road N-S

@ 103.2 and 118.3 Hit Two 10"
Jack pin on line

@ 100.2 Hub offset 0.80 to.

@ 130.35 Intersect Two line

From which we run

$N 30^{\circ} 15' E$ 1.00 1th pt for

IM $94.0 + 12.95 N 30^{\circ} 15' E$

107. $N 30^{\circ} 15' E$ from SW corner

Set $2 \times 48"$ pipe

24

Town IP. on 0.80 off set
From S 30°15' W

Chalk Mark on Ice Ho 0.80 S

bear S 85°35' Ht $\frac{1}{2}$ ' so of. blue ^{when} ice Ho

N SE angle reads 64°07 $\frac{1}{2}$ ' x 64°08'

85°36' T. blue when ice Ho

Drum 2x48" pipe at line C

Walk N and put in

Sw Co 120 ft ship @

124.51

110.15

14.35

119.31

110.15

9.16

56.5 Ff bet Two Big Front

IMS Quiv 6-20 PM

Time Sheet

Working For A R Talbot

1941

August

19	20	21	22	23	24	25
----	----	----	----	----	----	----

SUN

John McCue

1	1	1	1	1	1	7
---	---	---	---	---	---	---

6 days

60.

Car

35	35	35	35	35	35	35
----	----	----	----	----	----	----

245 miles @ 5¢ = 12.25

Exp

0

72.25

Frank Shalh

7	5	7	4	5	8	0
---	---	---	---	---	---	---

= 36 Hours @ 40¢ = 14.40

26

August 25-1941 Monday
all AM in office figuring on
Plat Subdiv Lot 1841

PM

Drive down with deed - 120 ft strip
Talbot and son "are in town"
I wait - shower and cold rain
At 3 pm. - wait

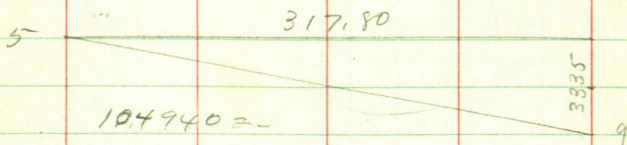
S 20° 48' W 115.63

Sine $355107 \times 115.63 = 41.06 W$ or $984826 \times 115.63 = 108.09 S$

S 75° 12' E 62.4

Sine $255446 \times 62.4 = 15.94$ or $966823 \times 62.4 = 60.33$

S 38° 47' E 109.3

Sine $626377 \times 109.3 = 68.46 E$ or $779520 \times 109.3 = 85.20 S$ 

S/L 1 To 2

150.24^N201.80^W

2 To 3

300.96

175.51

S/L 3 To 4

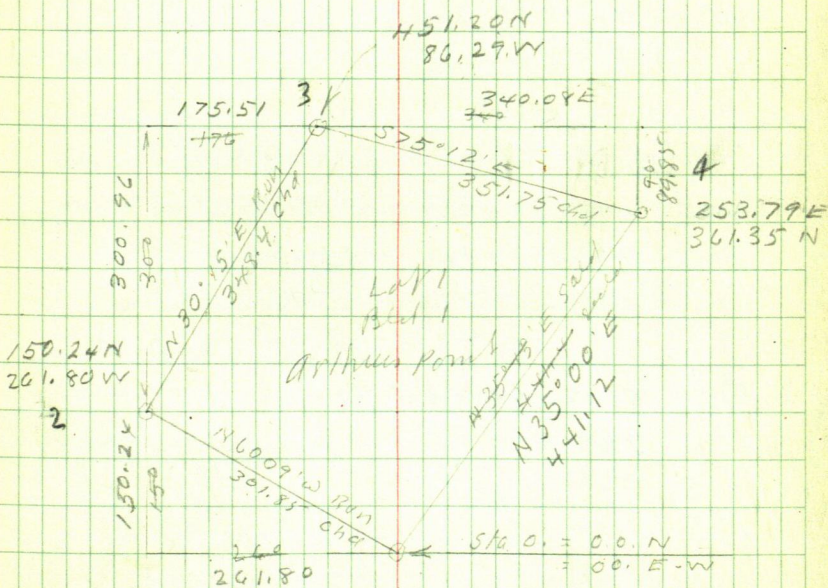
451.20

3 To 4

89.85

340.08^E

S/L 4 To 1



28 Aug 26-1941

all day at Et Ho - Work at Kols
office - on Talbot Tracts

Aug 27-1941

Still at Et Ho Figuring

N 35° E 263.26 S E Cor Lot 1

Sine $573576 \times 263.26 = 151.00 E$

Cor $819152 \times 263.26 = 215.65 N$

Tang $700208 \times 215.65 = 151.00 E$

S 85° 35' E 360 = 4° 25' NW Cor

Sine $.077009 \times 360 = 27.72 S$

Cor $997030 \times 360 = 358.93 E$

Tang $077238 \times 358.93 = 27.72 E$

Figuring NE Cor So Tract

358.93 E -

207.90 W

151.03 E

242.67 N

27.72 S

214.95 N

115.65

114.95

35° E

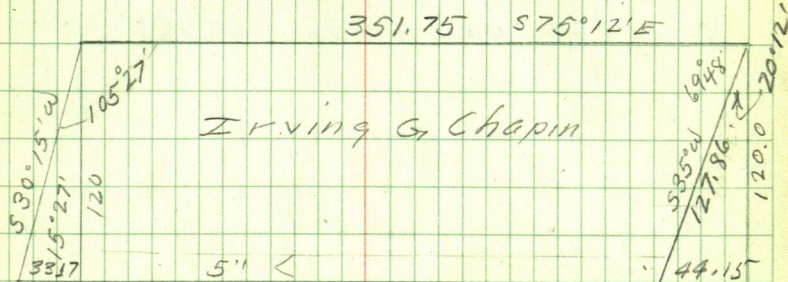
.70 ft in 360 ft

Sine $573576 \times$

Cor 819152 in $214.95 = 262.40$

Tang

Aug 26-1941



$$69^\circ 48' = 20^\circ 12' \quad \text{NE COR}$$

$$\text{Sine } 345298 \times 127.86 = 44.15$$

$$\text{or } 938493 \div 120 (= 127.8645)$$

$$\text{Tang } 367928 \times 120 = 44.15$$

$$105^\circ 27' = 15^\circ 27' \quad \text{NW COR}$$

$$\text{Sine } 266397 \times 124.5 = 33.17$$

$$\text{or } 963863 \div 120 (= 124.50)$$

$$\text{Tang } 276385 \times 120 = 33.17$$

30

N 35° E 262.4

Sine $573576 \times 262.4 = 150.51$ E

Co $819152 \times 262.4 = 214.95$ N

Tang $700208 \times 214.95 = 150.51$

①

140-30

31

May 8-1947

Stanley Peterson

N 460 of Gov Lot 4 Sec 27-140-30

Wes of N-S-E

20 21 26 14 ② 21 22
 29 28 28 27

140-30

32

BK D P9514

2X48 IM

N 114° 58' 30" W 252'

28

D P999

29 28

2X48 2M32

33 2308.5

How

BK "D" P9514

25 14

28 27

33 34

333

D P999

BP125 83°30' E 21.5'

BP125 19° W 37.0'

BK "D" P9514

MC 24

32 33

5 4

32 33

33 34

4 3

4

140 30 (Copy Book 73)

33

21 22

22 23

29 27

27 26

NP 12 N 3 1/2 W
28 L 18.48
NP 10 S 3 1/2 W
23 = 15.18

29
1950.2
1297.15

1/4 in

2648

1/4 in

JA 4 S 35° 30' E 77.95
BK 221-P 9 14.3

88° 11' 28" 1 m L 9 50.8 in
NP 30 S 12° 24' 51" W
MAIN S 12° 24' 51" W

27

26

NP 12 S 69° 12' 58" E
58.08
NP 15 N 45° 12' W
262 = 172.92

New
12
78° 05' W
93

BK 73
Tada 27

New
96° 14' 17" E
50.93

28 27

2329

27 26

33 34

129 11537.14

1/4

New
4000 77° 47' 0" E
77.50

2650

New
4037 112° 0' 15" E
112.0

UPION 1 1/2 W
24 = 15.84
NP 5 S 82° 45' 68" E
49.18

34

35

NC 24

BK D 7514

5300

1325 1325 (No.)

33 34

34 35

4 3

5 2

34

(4)

May 16-1947

Get Blue Prints 6 from mpls
BPT Co of Norway North
Show File Plat and Two
prints with Reg of Seeds Cass.
Co. & Walker

I and my car pick up Glen
Miller and with Harold
L. Walker at noon

Call on Oliver Olson
Give 3 Prints to Hedland
who owes me Bel³75

He has no money

I buy lunch 1.00 and we
drive back to Pleasant Lk.
East side

At 1/4 Bel-27-34-140-30
US water call for

At a pt where all fences
corner from the E. Lk. set 120
d. Spike C. n. line N S R. on
Another flag at 1/4 Bel-27-
set 27- set flag

North 460 + (5)
Lot

357

About $3\frac{1}{4}$ mil. So set T
on 120 d Spike & N S Road
on top of Hill work T on line
set by spike & N S Road
14" Red Oak N $50^{\circ}04'$ - 52.06
16" White Oak N $67^{\circ}22'W$ 56.90

Turned from & Road on
mill N S. Van reads 7°

@ 2615 2610

Chained by Harold and
Glennford Miller

From 1/4 on N Side Sec 27

From Hub on Hill Oak

North 300 pin 600 - 153.5

600 446.5 N old fence
153.5 runs westerly
446.5

600 pin 900 pin 1200 pin

+ 162.25 added T = 1362.25

added to 2616 =
1362.25
3978.25

Hub on hill see lines
above

3978

2
3980

26362

13482

39744

From 3978.25 Hub
 on top Ch 80 300 pin
 400 s-pin 900 pin 1200
 + 67.05 = 1267.05
3978.25
 5245.30 total

Meet Peterson boys who will
 help cut line tomorrow

They will write the "Doctor"
 their father to send me
 8100 on account of my \$200.
 Contract to survey their
 460 feet

We try to get a flag at
 NE Cor Sec 27-40-30 but too
 many water holes

Quit about 6-PM Home to
 Walker 6.50

John W. Peters

2) 5245.30 (2622.65
 524530

2622.65

2616.25
 6.40

May 17-1947 Sat.

Up @ 6 wake Glenford 6-15
Harold just up @ 7

I send Iles special Del
letter @ 7-

L & Walker 8 am with Harold
and Glen Miller - Buy milk at
Hackensack

Walk 1/2 mile E where
Harold works Knight T
on line near NE cor 27

Rake in line and Int. 608
in E edge of N wheel track
of old Turp E W Road

Bag in line with fence
running North Ch
West on line line

@ 8 ft fence run so @ 93.4
for the Glenford T. This

Twin Basswood on west edge
of swamp 7 and 10 - joined
at base 20' Basins

S 29°30'E 27.22

P 20 N 45°35'E 32.8

38

8

at 159.10 Hub 60 & spike
2 ft N of N wheel track

Two lines in line

6" Whit Oak N about 10° W

12.30 ft

10" W Oak 2 ft so of E W Road
fence line S 10° E 26.88

Spike is 4 1/2 ft N of &
Bath BTS in line with
Spike Hub

Continue West at
300 pm 600-900 pm
1200 + 135 = 1335 to

1/4 Cor Bet 22 1/2' and 27

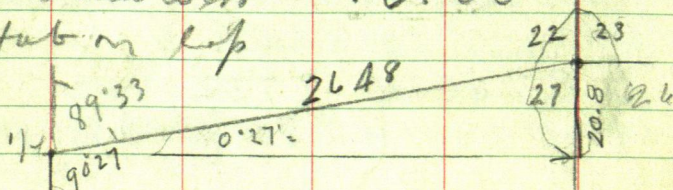
π over 1/4 SE angle of line lines
reads 90° 27' Handed 90° 27'

90° 27' - 180° 54' 271.20

361.47

Continue West 70.60

Hub on top



600-72.6 39

9

NEW Ties To $1/4$ Bat 22-
27-140-30

Focus E on line
7" NP in Dave Zapp's
garden bears N $35^{\circ}08'E$ 128.22
6" Birch N $36^{\circ}19'$ W 83.70
10" JP S $57^{\circ}06'$ W 50.80

200
spk

Old New JP 13" Now 18"

Now bears S $35^{\circ}30'E$ 77.95

To new meridian

600
72.6
527.4

PM

Peterson dogs help

Bag @ Temp $1/4$ Bat Sec 27-34
140-30 Run along S edge of fence
East Ranch on lot 27-34

300 Hub 600 pins minus 6000
92

527.4 Hub 600 spk's tree

WP 22 N $14^{\circ}12'E$ 40.80

Maple 14 S $82^{\circ}56'$ - 64.10

Fence $3\frac{1}{2}$ N 900 pin
1200 pin + 39.35 Hub in
Green patch 27.5 S of fence

40

10

Carlton Peterson "Carl"
 Stanley "
 L.V. Peterson Dentist
 Mabel Minn

Harald Shorten X legs
 to see back Then Harald
 and Glenford Miller walk
 80 rods east along old
 fence but find no iron
 but an old Twp road
 N 5 - Coming back

Carl - Stanley and I have
 the leaning tree cut out

Harald extends X
 legs to normal length
 and continues south

East I take

Ties to Hub 12 39.35

W Oak 9 N 23° 50' W 38.5

" " 8 S 29° E 74.15

Continue from pin 1200

East 1500 pin

1800 pin + 38.6 =

1838.6 Hub

Ties to 1898.6

6" W Oak 54607' W 24.6

Cracked 12" Red Oak beam

East bears N35°05'W 42.65

Fence North 48.2 To wire

1900 + 185 = 1985 fin 40.11

W of water Hail + 300 = 2285

fin over lot of water Hail

Set Hail ahead and

Quit 5.05 Herald walks
600 ft East to get Glen and
Lois I walk 60 rods west to

Car - Herald + Glen five
minutes later

Home in Walker 6-30

Glen goes home for supper

Note P. Peterson Bros

Quit 4 PM

8 Hour for Glenford \$6.

Peterson Boys 3 hrs no pay

John W. Curo

42

12

May 18-1947 Sunday

I and my Car with Harold
Gas - Oil 2.49 L. Walker 9 AM

Benjamin & Hack 21°

Drive So and E to

1/4 Bet 34-35-140-30

Find 2 1/2 x 48" galv iron pipe set
by Henry Todd 1914 Record N°

Claro Old Field Book 73.

We find the iron in East wheel
back of narrow graded road N-S
Ref loc off.

Heller T. over I M. bar reads 7°

New BTS.

9" Poplar S 49° 24' W 36.41

12" white oak S 71° 50' E 43.6

25 ft So of SE Cor of narrow
field running West

Field 100' wide on
East end Drive South
Over Creek

To locate an old road we
begin at the $\frac{1}{4}$ Cor Bet 34-35
140-30 and run

South along East wheel track
126.4 set 60 of Spite E edge
East wheel track Tie

Transit over 126.4

Focus on $\frac{1}{4}$ Cor

6" W Oak N $84^{\circ}40'$ W 40.35

9" Poplar N $33^{\circ}25'$ E 29.20

Run N 65° E along Q old road

125 feet then East 100

Then N 80° E 200

We meet Cline kids looking
for "sucker-in-a"

44

(14)

May 18-1947 continued
 From Stake 2285 E Page 41
 This book N° 256 continues
 East on random 2285

$$161.8 = 2446.8$$

$$\begin{array}{r} 161.8 \\ 2446.8 \end{array}$$

Hut under X

$$\begin{array}{r} 2285 + 300 = 2585 \text{ pin} \\ + 70.5 \quad \quad \quad 70.5 \\ \hline 2655.5 \quad \quad \quad 2655.5 \end{array}$$

IM bear

$$\begin{array}{l} N 2^{\circ} 57' W \quad 88.15 \text{ ft} \\ 2^{\circ} 57' \end{array}$$

$$\sin 051464 \times 88.15 = 4.54 W$$

$$\cos 998675 \times 88.15 = 88.03 N$$

$$2655.50$$

$$\begin{array}{r} 454 \\ \hline \end{array}$$

$$2650.96 E \text{ (or set N } 88.03)$$

Town 2nd IM 2 N S graded road

26-27-34-35 140-30 New Ten

Using 2 N S Road Meridian

Looking 80 rods S on 2 U 6° E

White Oak 10 N 30° 45' E 70.65

W. Oak 20° N 78° 25' W 92.60

Twin White Oak 6th 6th joined at base 12"

S 20° 20' W 42.35

Crooked 8" Basswood S 63° 23' E 35.7

N E on gold fence S 61° 50' W 30.2

2 Road Half a mile N 0° 22' W

46

16

2700.1

63.5

2636.5

From IM Co to Seer

26-27-34-35 140-30 ch

North along E old road

3-6-9-12-15-18-21-24-2700

set pin

From 2700 N ch Sd 63.5

To 2636.5 N set pin in

line with Fence West

Nati Chained perfect

At 2636.5 N set 60 d spk

Q Road Ties by Eye

6" W Oak N 30° E 26.7

12" JPN 20° W 53.6

12" JPN 45° W 46.75 Old Blage Spks

Fence Cox SE Co West 22.2

8" JPS 30° W 20.15

Drive spk 2" down in

Q road

1'54

SIN 033155

999450) 2650.96

033173

M 19-1947

(17)

47

NECM
Sec 27

Figuring

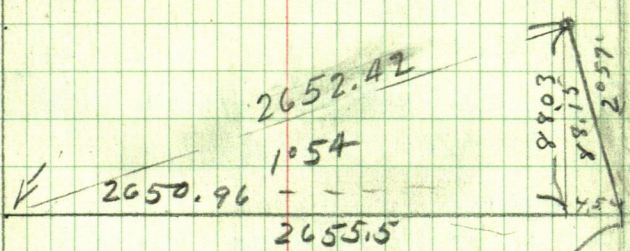
2648

0.27'

20.8'

Eaton random bet 27-34-140-30

30



2°57'

$$\sin 051464 \times 88.15 = 44.154 W$$

$$\cos 998675 \times 88.15 = 88.03$$

$$\tan 051533 \times 88.03 = 4.54$$

SECM
Sec 27

$$2650.96 / 88.03 = .033206838$$

$$= 1'54''$$

$$\text{Correction} = 033206838 N = 1'54''$$

300 E 900 N	9.96
527.4	17.51
1239.35	42.15
1838.6	62.05
2446.8	81.25
2650.96 900 N	88.03

48

18

May 19-1947 continued

8-30 Harold finds Glenfed in
bed and we leave without him

Lv Walker 9-10 am

Bananas at Hack
Call on Glen

With Plat of

Buy lunch at Hack and
drive out Talk with
who ownWill sell @ \$15.000 Carh and
will pay me \$500. to get the
buyer He says its OK to
cross his land

K Knight brought me

Temp $\frac{1}{2}$ bet 27-34 - 140-3

Sweep V range

NE Angle Reads 92° 09'

True line N to Random E

92° 09' - 184° 17' $\frac{1}{2}$

276° 20' 368° 05'

NE Angle True line 90° 15'

(19)

49

92'
184
276
368

09
18'
27
36

99.33

°27'

20.8

267° 96
1 54
266 42

36 59° 27
60
96

92 09
91 69
1 54
90° 15'

1st Road

90° 15'

corrected Random

90° 15'

2650.76

89° 45'

50

20

Tower $\frac{1}{4}$ Spike bet- 27-34 -140-2

Focus E on Random Turn

L 1'54' and run

West @ 157 pin foot of hill +105
up hill 105262 Hub on top of oaks

+ 300 = 300 - 562 Pin in Oaks

+ 300 - 862 pin

+ 175 1.75Enter S. Edge 1037 pin of Waha
Main Pond 300 E W 200 W

1037 + 300 = 1337 pin over Swamp

Not 1327 Hub

Ties 5 NP S 6° W 41.85

8" JPS 53° 35.65

10 ft S of water

1337 + 300 = 1637 pin + 31.7
31.7

604 Spike 1668.7 Hub

On Point of Land Ties

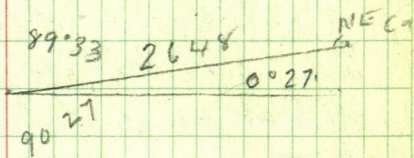
WP 8 N 56° E 25.60

NP 10 S 43° 30 W 11.35

JP 11 S 83° 49 E 42.00

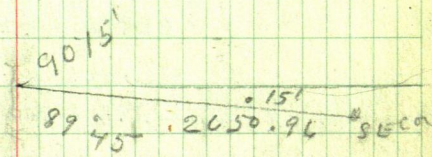
21

51



5245.30

27



52

22

X @ Hub 1668.7 W on Point
Wali 10 ft N 75 ft W

25 So N Shore of Point

Run N 67° E 300 + -

West end of Point S 67° W
150 + -

S Side of Point S 73° 30°

200 ft Then to the right

Walk back to Car

2° 09

$$\sin 037516 \times 2655.5 = 99.62$$

$$999296 \times 2655.5 = 2663.$$

037542

$$0^{\circ}15'004363 \times 2652.42 (= 11.57)$$

Hub 1668.7 W is 131.56 To far West

$$\begin{array}{r} 1537.14 \\ \hline 131.56 \end{array}$$

$$\begin{array}{r} 1668.7 \\ 131.56 \\ \hline 1800.26 \end{array}$$

May 22-1947

Harald's Car Glen and
JMK See Page 38

$\frac{1}{4}$ Corbet 22-27-140-30 Run
Focus East on line line and run
West Bet 22-27 @ 70.6 (Pg 38)

Hab on top $+3-6-9 = 970.6 \text{ pin} + 14.2$

$\frac{14.2}{984.8}$
Tower 984.8 w that here

Turn $1^{\circ}35' \text{L}$ Run $S88^{\circ}25' \text{W}$ and
run 293.98 to from which MC set
~~N $70^{\circ}07' \text{W}$ 17.55~~

Bailett's Hole Sals.

$S58^{\circ}46' \text{W}$ 6.4 Pale of rock
around hole

~~Turn MC and set 10°E~~
Set

Tower 293.98 On rd N $66^{\circ}32' \text{W}$ 14
Old BT stump N $29^{\circ}03' \text{W}$ 27.9

Turn MC and BT up N 3°W
and S 15°W 15'

Bailett Hole S 41°E 10.3

15' Dead NP N $37^{\circ}10' \text{W}$ 13.8

10' NP S $32^{\circ}38' \text{E}$ 67.65 over spot 3 at

9. NP N $78^{\circ}40' \text{E}$ 46.85

56

(26)

140-30 Jan 27

May 22-1947 Contd.

2-PM eat lunch - Walk West
 Bay @ Hah 1668.7 W P9 52 we ch E
 131.56 To 1537.14 W look for 135

From 1668.7 W Ch E 131.56 C_n

sets 10 ft E 43.6 To T. 12" dead
 Ark

Old pearled 10" JPN 20' E 26.5

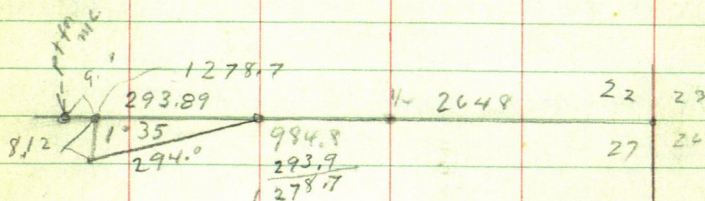
12" NA Scaud at base 75' W 43.5

N 75° W 43.5 To 44 12" ark

which stands # 6 ft in water

1°35'

SIN 027631 X 294. = 8,12
 COS 999618 X 294 = 293.89



128200 VS

1278.70

9.30

27-140-3

52454

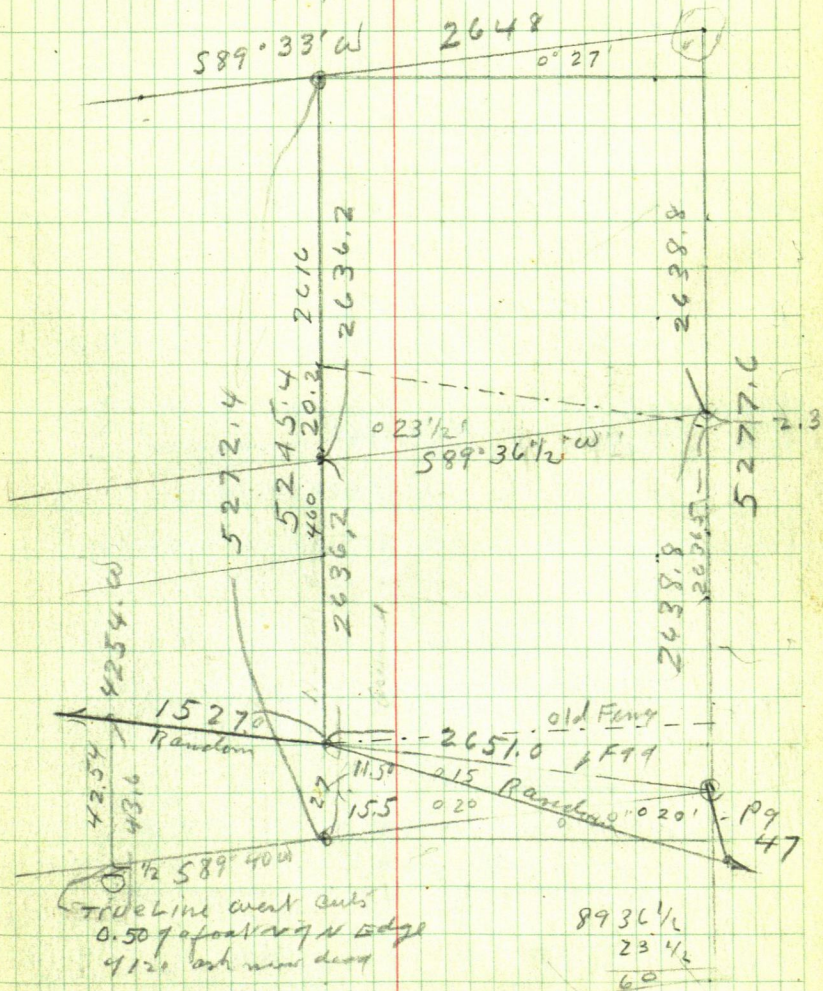
270

52724

27

57

Harold and his Car with Walt and Glenn Miller LV 8 am for Plat 1 Ten Mile N. Shore
I work alone in office



58

May 24-1947

(28)

What we want is

The North 460 feet of Gout Lot
4- Sec 27-140-305284
3988

27

5311 N

27 5284 N

1324

1324

1324

1324

1324

1324

1324

1324

1324

1324

1324

2638.8

2638.8

1325

2650

1325

1325

1325

1325

1325

1325

1325

1325

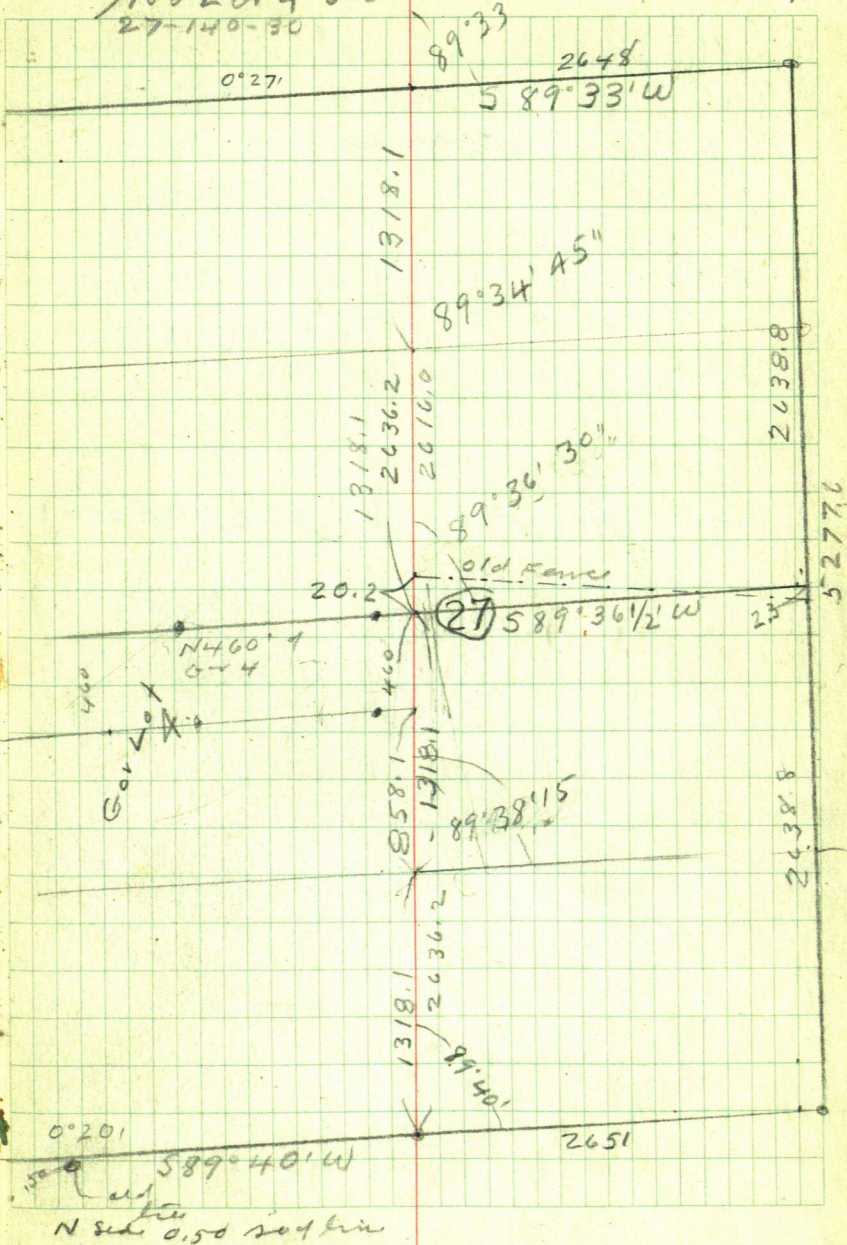
1325

5300

Old Fence

01

59



Bag & small slates set
 10 ft E of water and 8 ft E
 of string barometer
 Then 15.2 to 2x 36" pipe
 in ridge

From pipe ch E 300 m
 + 17.3 = 473 I m in Bar
 33 W of E Road Bank

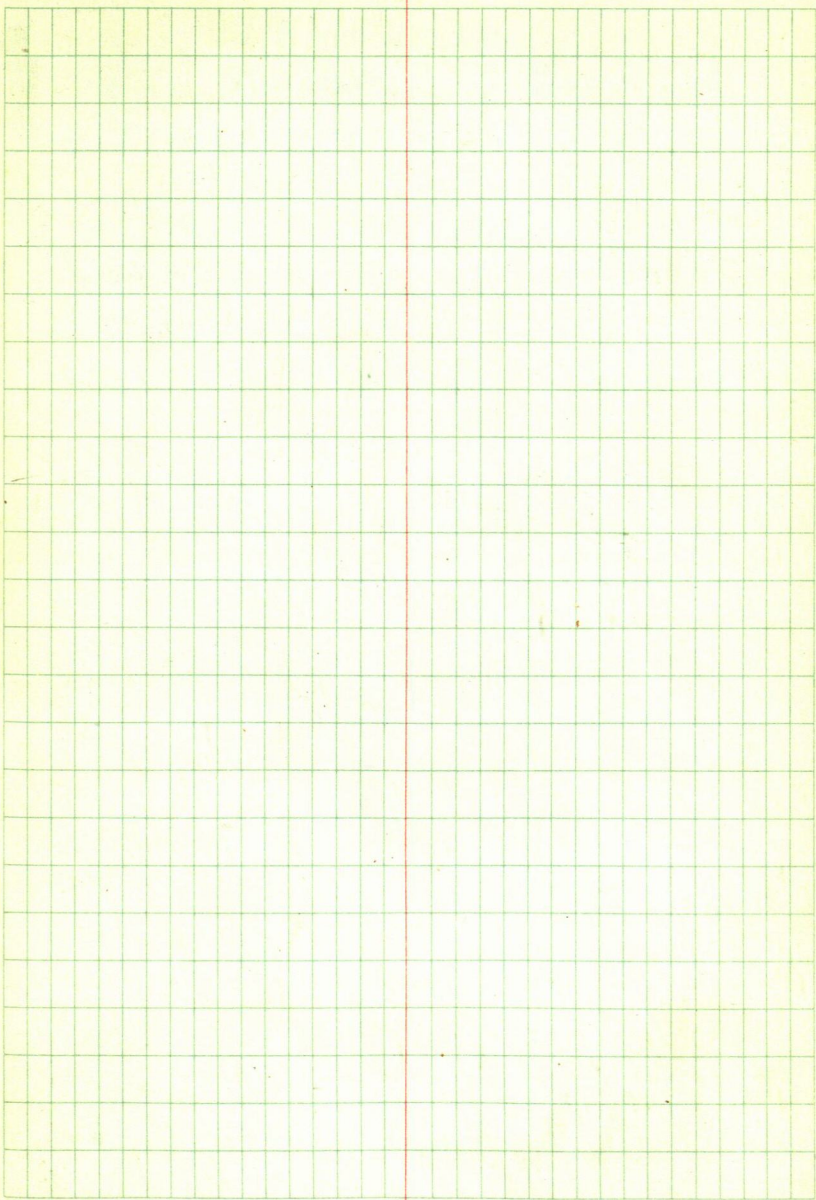
West 306.7 m

26 x 2' pit 21 ft E of water

Arthur's

31 Point

61



Monday 11

68

June 17-47 Looking up vals 140-30

34-140-30

SE SE owned by John Wynn
Occupied by

SW SE 34-140-30

owned by George E. Maas
Occupied by

27-140-30

140-30

35

34

CURO D. P. 217 H 558 1939

Todd P. 69 124 73
Oct 16-191X

64

2

140-30

SECOR 34-140-30 = C0

2-3-139-30

34-35 140-30

USNates Call for

Census Notes Sept 1-1939

SE C-34

12" JPN 49°53'E 94.10

Twin Pine 6" JPN 21°02'W 90.9

3" JPS 37°10'W 56.70

11" JPS 59°50'E 76.20

Look up old notes Harold + I Ld
Walker in my Car 10 am

Sleep at Hask Then drive to
end E Talk with Ron on

SW 1/4 SE 1/4 34-140-30

Locals True N-S & Sec 34

Work Knight T on line 60 rods N

1/4 on So side of Sec 34

Set 3 RR spurs & road

About 60 rods N Then

15" Oak N 24°52'W 84.65

24" WPS 77°30'W 39.90

Set RR spike on so Brink of
Hill about 900 ft N of 1/2 Tree

U 7° 30' 12" oak N 41° 35' W 89.45

15" Oak S 84° 12' W 53.25

Spade 3' up

Continue E road to set
120 d spike in so shoulder
of E W road

Fred Chins drives up
and the other two or

Fight nearly starts

Says:

our line is to far west
that John W. who once
owned SE SE says

66

S $\frac{1}{16}$ Cor Bet 34-35-140-30

E N S Graded road

15 J P N $38^{\circ}04'E$ 49.10

14 " N $32^{\circ}46'W$ 57.05

N 0.8 'E

N 0.4

N 0.08

N 0.4

June 18-1947 Wed

I and my Car took Harold Carr and
Walt Miller Lv Walker 9:30 am

Check SE Cor 34-140-3 O.K.

Set 2x24" bore hole

From SE Cor 34-140-30 ch

West on N half of graded road

$300-600 + 130.8 = 730.8$ Huh 100 d spike

near Fred Chins H + 537.8

1268.6 Hal

1268.6 ch Wat 300-600-900-1200 -

1268.6

1308.4

12637.0

1318.5

1318.5

1268.6

49.9

168.7

1368.7

N 0° 06' W

89° 06'

90° 10'

N 0° 02' E

90° 02'

89° 58'

N 0° 10' E

90° 10'

89° 50'

68

900.0

765.6

T @ E $\frac{1}{16}$ SE 34 - 140 - 30

134.7

Lost N on line $\frac{1}{16}$ Old State Reels N 76° E 45.6SW Corn plowing N $52^{\circ}30'$ E 36Tree 8" Oak N $77^{\circ}50'$ E 71.307" J P S $49^{\circ}22'$ E 75.10

Q EW Road S 5.0

Point for sign post N $19^{\circ}34'$ E 140.12nd sign post N $8^{\circ}55'$ E 185.22" Oak N $44^{\circ}02'$ W 14.2

Pump point under EW fence

North 16.5 Run

North @ 200 - 300 spk + old

329.5 Corn plow furrow NW SE

600 Hub and short state in

new ploughing

 $165.6 = 765.6 \text{ Hub}$ $600 + 165.6 = 765.6 \text{ Hub under T}$

41.5 West to edge of plow furrow

N 37° W $46^{\circ}40'$ W 84 ft

7656 847 LV plums got

81
8456

20 ft W 7 N 15 cm

U 765.6 +

134.4

= 900.0 + road

765.6 + 300 = 1065.6 slash

1075 enter 2nd field

30 ft E and 60 ft W

1065.6 +

80.4
1146.0

1146.0 Hat under K +

155.4

1301.4 Spks and Woodruff

add 6 w fence

Arthur's Point
①

Woodruff brings Nat. Neusteter to my office. Nat has bought the Ed. H. Dierles place described as follows to-wit

1.5 acres of Lot 5 Sec. 28, -140-30
beg at a point on road 290.5 feet measured along a course $S 4^{\circ} 30' E$ from the Established NE cor of said Lot 5 thence $S 4^{\circ} 30' E$ 179.40 ft to an A.P. thence $N 85^{\circ} E$ 230.1 ft to a point on the Lake shore thence along said shore 456.5 ft \pm to a point thence $S 46^{\circ} 30' W$ 200 ft to the point of beg.

As Arthur has sold another tract to Effie L. Edgren who has sold it the description of this tract is as follows

Part of Lot 5 Sec 28 - 140-30.
beg at a point 570 ft South from the SW cor. of the NW $\frac{1}{4}$ of S.E. $\frac{1}{4}$ =
(NW Cor Lot 5) thence $N 41^{\circ} 30' E$ 246'
thence $N 65^{\circ} E$ 153.7' " $S 20^{\circ} 45' E$ 103.3
" due East 97.2' " $S 28^{\circ} 15' E$ 370.2
" $S 23^{\circ} 15' E$ 220.7 " $S 7^{\circ} 30' E$ 206.3
" $S 75^{\circ} 30' W$ 729.2 " N along the $\frac{1}{2}$ line
738.8 ft to pt of beg.

this 2nd description does not close and over laps the first one

Nat Neusteter bought a part of 2nd tract but could not get deed filed as description was no good. Wants me to fix things up.

I drive to Arthur's Point find Nat. get names of land owner go back to walker copy deeds, put them on paper according to description find they overlap each other

Don Bob + I drive to Arthur's point. Nat has gone to International Falls. We drive over and talk to Woodruff. Then back to Nat's place to check some of the lines

Then I M. 290.5 ft S 4° 30' E from established NE cor lot 5 said iron is correct according to Nat and Woodruff as the NE cor of lot 5 has been pulled out we use the

Fence along Nate N line which
is said to be on the true line
as $N 41^{\circ} 30' E$

Tower I.M. point of beg of Nate's property
Site $N 41^{\circ} 30' E$ along said fence

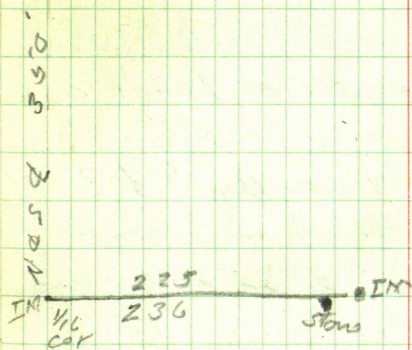
Turn T to $N 40^{\circ} 30' W$ do not put
out worth a damn to point about
where NE cor of lot 5 was.

Site T $N 40^{\circ} 30' W$ to point about where
NE cor lot 5 was Transit telescope
and set I.M. on S side of old fence
post

T set 11 at I.M. NW cor of Tract 1
Site $S 4^{\circ} 30' E$ on I.M. SW cor of said
tract at 49 ft. Set 60 ft spike
where a line in tract 2 crosses
W line of tract according to
description and plat shows it
Note I made a plat and scaled
distance.

Tower spike 49 ft S of NW cor
run $S 65^{\circ} W$ 110' at 60 ft spike
continue $S 65^{\circ} W$ to 155.7 at 60 ft spike

West IM 100 217 IM
2941



Sat. 1954

John Bob Dan & I to Rathbun
Point meet Woodruff He takes
us to IM on N & S $\frac{1}{4}$ 350 ft N of
 $\frac{1}{4}$ NW cor lot 5 We chain
South 350 ft IM gone (Find it Later)

Then IM NW cor Nat Neusteter
tract BS S $40^{\circ}30'E$ on IM at SW
cor of tract run N $40^{\circ}30'W$ 290.5
ft and 609 apite This apite comes
about 15 ft S of where they tell
me the corner NE of lot 5 should
be We check

There is an IM set by Green

When he surveyed for CM Fancher
this I M sets at NE cor of said
tract

Fig this I M sets N. 63° 39' E
of NW cor of Neusteter tract and
35.71 ft E

Then Nat NW cor BS S 4° 30' E
& run N 5° 35' W 413.3

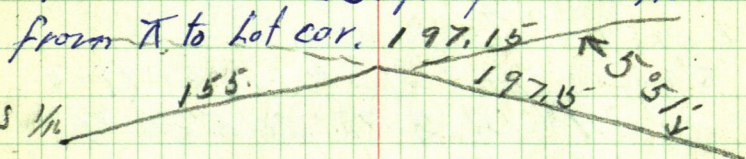
Then 413.3 BS S 5° 35' E & run
N 34° 02' E 157.7

Then but 290.5 N 4° 30' W from
Nat Neusteter NW cor Temp MC
NE cor Lot 5. BS S 4° 30' E & run
West.

Monday Aug 1954

Met John Ed & I to Arthur's Point
T in road site South on 1/16 Centm

NW cor lot 5 on N & S &

I M North ~~from~~ on N & S & bearsN $5^{\circ}51'E$ 155. ft from T to 1/16 cor $5^{\circ}51'$

$$\text{Sine } 101924 \times 197.15 = 20.09$$

$$\text{Cosine } 994792 \times 197.15 = 196.12$$

$$196.12 + 155 = 351.12$$

$$\begin{array}{r} 351.12 \\ \times .0572169 = 3^{\circ}17' \\ \hline 20.09.00 \end{array}$$

$$155 \times 0.572169 = 88.7$$

checking

$$\text{Sine } 101924 \times 155 = 157.80$$

$$\text{Cosine } 994792 \times 155 = 154.19$$

$$154.19 + 197.15 = 351.34$$

$$\begin{array}{r} 351.34 \\ \times .04497068 \\ \hline 15.80.0 \end{array}$$

$$0.4497068 \times 197.15 = 8.87$$

Aug 17th 1954

John - Ed & I to Arthur's Point
from NW cor lot 5 run South
570 ft at 20th apike in S
wheel track of road point of
beg. in Andrews Tract

Then 20th apike take tie's

J.P. 14 S 77° 26' E 30.70

J.P. 15 S 7° 12' E 16.8

Still at 570 S on N & S & from
NW Cor lot 5 run N 41° 30' E
246'

Then 246, BS S 41° 30' W & run N 65° E
155.7.

Still @ 246 run S 21° 25' E 57.5

Then 57.5 run S 84° 36' E OK
S 75° 04' E NB

Then 155.7 BS S 65° W & run
S 20° 43' E 103.3

tree on line

Still @ 155.7 run N 7° 12' E
39.3 to NW cor Nate Tract

Over Nats NW Cor B S S $7^{\circ}12'W$ + run
 $S 15^{\circ}13'E$ to Nats SW cor of this tract

Over Nats NW Cor. Site $S 4^{\circ}30'E$
 on Nats SW Cor as deed calls for
 run $N 46^{\circ}30'E$ to lake

Over SW cor Nats Tract Site $N 15^{\circ}13'W$
 on NW Cor run $N 22^{\circ}26'W$ to split
 103.3.

Over 103.3 run due East to Nats W line
 5.2 to Nats W line then S to Nats SW Cor

Over SW Cor. take stada shoreline
 78 $S 88^{\circ}30'E$ 103 $N 75^{\circ}20'E$
 Lake 10 to L. 190 $N 71^{\circ}30'E$
 190 $N 82^{\circ}E$ 120 $N 84^{\circ}50'E$
 130 $N 83^{\circ}15'E$

From SW Cor run $N 55^{\circ}42'E$ 304'

Over 304. B S S $55^{\circ}42'W$ run

95 $S 16^{\circ}15'E$ - 5 65 $S 31^{\circ}E$ - 4

54' $S 37^{\circ}20'E$ - 18 $S 73^{\circ}E$

90 $N 22^{\circ}30'E$ 140 $N 33^{\circ}10'W$

152 $N 38^{\circ}W$ 170 $N 41^{\circ}10'W$

78

$\frac{1}{16}$ run $589^{\circ}40'E$ to NE cor lot 5
Sec 28-

Ties to $\frac{1}{16}$ NW cor Lot 5

Birch 10 N $49^{\circ}08'E$ 12.73'

Oak 12 N $70^{\circ}55'W$ 13.37'

Stada

185 N $47^{\circ}15'W$

145 N $45^{\circ}45'W$

160 N $45^{\circ}06'W$

145 N $43^{\circ}15'W$

pot hole

100 S $28^{\circ}40'W$

110 S $71^{\circ}0'W$

120 S $1^{\circ}30'W$

120 S $8^{\circ}W$

140 S $18^{\circ}30'W$

145 S $23^{\circ}40'W$

130 S $28^{\circ}45'W$

102 S $32^{\circ}20'W$

Town NW cor.

180 N $47^{\circ}30'E$

175 N $50^{\circ}E$

210 N $64^{\circ}E$

170 N $70^{\circ}30'E$

130 N $69^{\circ}30'E$

110 N $63^{\circ}E$

100 N $61^{\circ}30'E$

90 N $53^{\circ}10'E$

90 N $46^{\circ}E$

80 N $36^{\circ}E$

April 4-1956

Checking old survey field Notes page 34 this Book

Harold & Glenford Miller beg at $1/4$

N side Sec 27-140-30 chain S along
road @ 3978.25' hub 120° spikes Ties

Ties Red Oak 14 N $50^{\circ}04'$ E 52.06

White Oak 16 N $67^{\circ}22'$ W 56.9

at point where old fence comes from
The East 5245.3 set 120° spikes
in & N & S road.

Ties to $1/4$ bet Sec 22-27 pg. 39 this Book

beg at $1/4$ bet Sec 27-34 = 120° spike
in & N & S road run East along S. edge
of fence @ 527.4 hub 60° spikes

Ties W Pine 22 N $14^{\circ}12'$ E 40.8

Maple 14 S $82^{\circ}56'$ E 64.1

@ 1239.35' hub Ties

W Oak 9 N $23^{\circ}50'$ W 38.5

" " 8 S 29° E 74.15

@ 1838.6 hub Ties

W. Oak 6 S $46^{\circ}07'$ W 26.6

Crooked R " 12 N $35^{\circ}05'$ W 42.65 leans East

@ 2285' pin over water hole

$1/4$ bet. Sec. 34-35-140-30

IM E wheel track old narrow road

Ties to $\frac{1}{4}$ bet 34-35-140-30

Poplar 9 S 49° 24' W 36.41

W Oak 12 S 71° 50' E 43.6

From pin 2285 E continues E on random

2446.8 hub under T

@ 2655.5 hub IM sec cor bears
N 2° 57' W 88.15 ft

Tower 2" IM in $\frac{1}{4}$ N & S road cor to
Sections 26-27-34-35

Take Trees W. Oak 10 N 30° 45' E 70.65
" " 20 N 78° 25' W 92.6

Twin W. Oak 646 @ base 12 S 20° 20' W 42.35

Crooked Barwood 8 S 63° 23' E 35.7

NE cor of fence S 61° 50' W 30.2

Tower 120 ft spike tower $\frac{1}{4}$ bet sec. 27-34

Site E on corrected line and run West

@ 262 hub on top in oats field

@ 1037 S edge of pond

@ 1327 hub. Ties NP 5 S 60° W 41.85

JP 8 S 53° 8' 35.65

10 ft S of water.

@ 1668.7 = hub 40 ft spike on point of land

Ties WP 8 N 56° E 25.6

NP 10 S 43° 30' W 11.35

JP 11 S 83° 49' E 42.5 ft

beg at hub 1668.7 W. we chain
 East 131.56 to 1537.4 W look for B.T.
 cor set 10 ft E and 43.6 S
 correction not figured in old Note

4178 W goes S 42.54 to true line
 $42.54 \div 4178 = .010181905$
 hub 1668.7 W is 4319.7 W goes S 43.98
 " 1327 W is 3978 W " S 40.50
 M.C. is 141.56 E of hub 1668.7

April 5 1954

Ed & I drive to Island Beach
 Resort owned by Cox
 where we meet Mr Cox and the
 Woodroff Bros they show us
 where the easement road 2 rod
 wide should run also the tract
 of land we are to survey and
~~write~~ the description of. then
 leave. Ed & I take chain ax
 and shovel and go out on point
 and re-set old hub on our old
 random sec. line bet Sec. 27
 and 34-140-30. We re-set old

hub 1668.7 W and hub 1327 W from
Temp $\frac{1}{4}$ mi E N+S road. old random
run by I+JW Curo in 1947 old
Notes in this book

Drive to Hackensack for Lunch
P.M.

Tower 1668.7 run S 43.98 at wooden
peg in snow ^{on ~~the~~ ^{the} ~~side~~ ^{side} of} Tower 1327, run S
40.50 ft set 60 ft spike on true line

Tower corrected hub 1327 site
W on corrected hub 1668.7 and
run West 134.25 set 60 ft spike on
bank of lake run East along
line from ~~corrected~~ hub 1327 -
77.8

Tower hub 77.8 E of corrected hub
1327 Turn 90 run South set ~~hub~~
from hub on Seawall Ch N 138.9 hub 61.1 hub 125.9 hub
on line ^{on line} ~~on line~~ ^{wedge}
run N set hub on seawall.

Apr. 6 - Storm & rain

Apr 7 Snow + wind - Storm

Apr. 8 Sunday - roads still blocked with
snow drifts

Monday April 9-1956

Warm-sun. Ed & I drive to
Island Beach Resort on Pleasant
Lake

From hub on Sec line bet Secs.
27-34 see page 83 this book
run North 90° to Sec. line

We could not get across pond to chain
Apr. 5th We brot along a pair of skis
to-day. @ 40 N enter pond. @ 210 LV
@ 230 pin. + 3.7 = 233.7 but on seawall
rt for IM. + 10 ft enter Lake.

Then 233.7 N of Sec line
take stada of Island.

940 \pm N $86^\circ 30' W$ NW cor. of island

880 \pm N $88^\circ W$ ✓

820 S $89^\circ 30' W$ ✓

760 S $86^\circ 45' W$

720 S $83^\circ 15' W$

700 \pm S $77^\circ W$

700 \pm S $74^\circ 50' W$ rt. E end

main shore line bears $S 63^\circ 30' W \pm$
120 ft W of random but 1668.7

Island continued

I go to island from N 86°30'W island extends 75 ft west @ N 86°30'W to NW cor of island

From NW Cor island runs S 90° about 50 ft thence Left to end of pt which is about 20 ft W of 90° about 300 ft thence East to pt S 74°50'W - 700 ft from X

233.7

Tower 333.7 N pt for I.M. to the Ties

J.P. 10 S 56°46'W 5.66

J.P. 7 N 89°21' E 6.90

Tower hub 77.8 E of corrected hub 1327 on true Sec. line bet Sec. 27-34-140-30 160 ft N 57°30'W to pt 10 ft W 10'E + 10 ft S of end of pond.

A still over 77.8 BS W on hub 134.25 W of corrected hub 1327 (134.25 is 12 ft N of water)

(South shore of island seems to run W 2°40'N)

We run out E road easement beg at hub 77.8 E of corrected hub 1327

S 65° 35' E 100 ft to A.P. Sta 1

Tower Sta 1 BS N 15° 35' W + run
S 50° 46' E 115 ft to AP Sta 2

Tower Sta 2 BS N 50° 46' W + run

S 37° 16' E 141.65^{Sta 3} + 98.35 = 240 ft

Sta ④ A.P.

April 10 - 1956

Ed & I go get 10 mins 2⁰⁰

drive to Island Beach Resort

Walk South to road easement

Line Tower Sta 4 AP BS

N 37° 16' E on Sta 3 and run

S 30° 16' W to end of easement road

on Tract N° 5 Lot line 612.5 at IM

end of our 2 rod easement road

from IM chain NE 200 ft at IM

& roadway.

from Sta 4 chain S 30° 16' E at IM

& 2nd roadway, at Sta 1-2-3-4

at IM, S.

July 23-1956

Towr NW Cor Nat's Tract

Site S $7^{\circ}12'W$ on I.M.Fence to take runs N $44^{\circ}34'E$ A still at NW Cor. Nat's Tract run
S $54^{\circ}19'W$ 179.70 ft to I.M.

Don & I

No pay

June 8th 1957

Arthurs Point

from NW Cor lot 1-BLK 1

Don & I chain along N line lot 1

@ 91.1 pin Looking for JWC old
hubs which are as follows @ 86.0
hub @ 107.6 hub on top N slope see
page 12 this book.

hub 86.0 Taken out with new
road.

$$\begin{array}{r} 107.6 \\ 91.1 \\ \hline 16.5 \end{array}$$

do not seem to be able to find any
of JWC old hubs

Then I M N E cor lot 1 site

S 35° W on I M & run N 75° 12' W

as this does not seem to work out

Try this which has to work

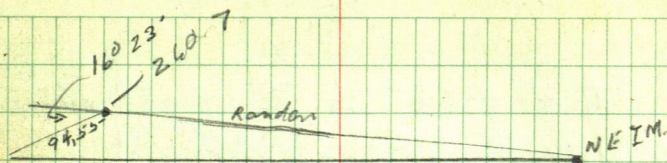
Then I M at NE cor Lot 1 and run
a random line and then will correct
same

from I M NE cor lot 1 chain

NW @ 133.2 hub @ 165.3 hub @ 220.7 hub
@ 260.7 hub under T NW of road on
random

from hub under T the NW Cor Lot 1

bears L 16° 23' - 94.55



Corrections

16° 23'

Sine .28204 \times 94.55 = 26.67

Cosine .959394 \times 94.55 = 90.71

260.7

90.71

351.41

.07589423

351.41 / 26.67.0

h L

h	133.2	g	L	10.11	to line
"	165.3	"	L	12.53	" "
"	220.7	"	L	16.75	" "
"	260.7	"	L	19.79	" "

90

Sec. 18 180-142-30
Bakers ① Resort

Ed & I to Baker's Resort
Where I pick up Mr. Baker
He calls his two Indian workers
we go to the cor to section 7-8
17 & 18-142-30

Turn IM cor site N on
Gov't MC Turn L 90° & run West
Tie to Sec cor cor to Sec
7-8-17-18

Poplar	14	S	$19^\circ 45' W$	27.00
W Oak.	10	N	$72^\circ 39' W$	8.00
Ash	5	N.	$49^\circ 15' E$	15.5
"	14	S	$75^\circ 10' E$	6.92

At still over Sec cor. we find Hill's
M.C. angle NW reads $90^\circ 36'$
Sowen run $S 89^\circ 24' W$

USMC Ties bet 7-18-142-30

Ash 20 N $81^\circ 12' E$ 7.75

" 4 S $70^\circ 30' W$ 13.53

From Sec cor NE cor Sec 18 chain
West 158.4 USMC, +300 +49.8 \pm
508.2 hub + 585 cross path

18-142-30

@ 684.2 hub at E edge of swamp
sta A run. L $41^{\circ}22'$ - 125.8 to C.
set sta B on line over swamp
Tower B BS. on A sta C bears R $16^{\circ}16'$

 $41^{\circ}22'$ 125.8

$$\sin 41^{\circ}22' \times 125.8 = 83.14$$

$$\cos 41^{\circ}22' \times 125.8 = 94.41$$

 $16^{\circ}16'$

$$\cotang 16^{\circ}16' \times 94.41 = 323.56$$

SHOULD HAVE USED
83.14

284.93

hub on K side swamp is 684.2

+ 83.14

SHOULD HAVE USED
94.41

767.34

to pt on

line which would be
 90° to MC

+ 323.56

+ 090.90

to hub

1663.54

over swamp.

Ties to hub 10 90.90

pop 5 N $44^{\circ}18'W$ 7.10pop 4 S $82^{\circ}21'W$ 21.25

1090.90

438.1

1090.90 + 428.1

+ 529.00

@ 1529.0 split in 2 tan road

1501.64

92

142-30



249.75

Tower 1529.0 in Φ Far road
 Φ run S 62° E

S 62° E angle = 28°

Sine 469472 into 33 = 72.29

Cosine 882948 into 33 = 37.37

469472 into 50 = 106.5

882948 into 50 = 67.97

distance from Seo Cor to
 MC US Measurement 2663 Lks = 1757.58

1757.58

1529.00

228.58

from hut in Φ chain w 242.75
 at angle for P.C. 40' \pm E of water

π still at hut in Φ Tar road
 run S $21^\circ 49'$ E to station shore

π still @ hut in Φ run S 62° E

Tower station shore site N $21^\circ 49'$ W on

hub in & run N 52° E to pt in &

Now pt in & site along & run L 66°

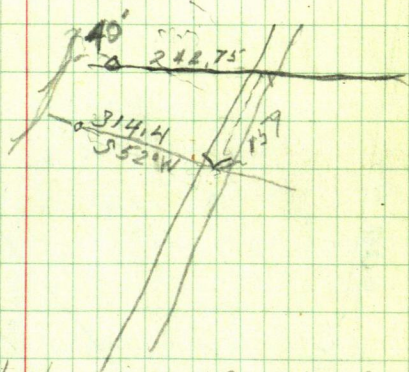
$$90^{\circ} - 66^{\circ} = 24^{\circ}$$

Sine 406737 into 50 = 122.93

Cosine 913545 into 50 = 54.73

159 along & line

314.4



Ties to MC bet sec 7-18-142-30

Willow 5 N 5° E 4.65

Birch 5 N $13^{\circ}15'$ W 30.08

Poplar 5 S $65^{\circ}15'$ W 13.00

Ash 4 N 65° E 17.23

94 Bakers Resort 5-
 Sec 18-142-30

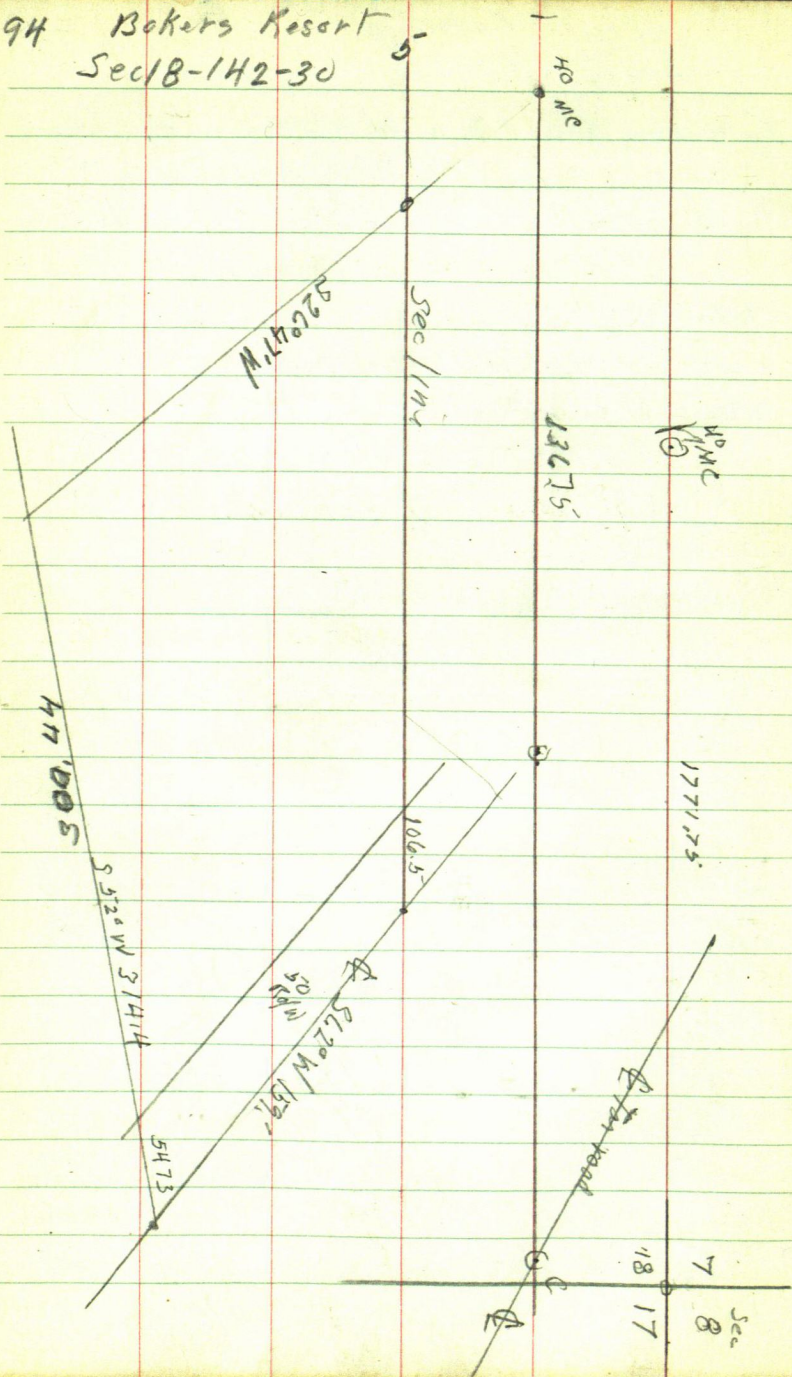


Fig. from MC East to Φ tar road
MC = 00

$$\Phi = 242.75^\circ E$$

S $62^\circ E$ along Φ 159'

$$\sin 62^\circ 882948 \times 159 = 140.39 E$$

$$\cos 62^\circ 469472 \times 159 = 74.65 S$$

run S $52^\circ W$ 314.4

$$\sin 52^\circ 788011 \times 314.4 = 247.75 W$$

$$\cos 52^\circ 615661 \times 314.4 = 193.56 S$$

run

N $26^\circ 47' W$

$$\sin 26^\circ 450618$$

$$\cos 26^\circ 892717 \text{ into } 268.21 = 300.44$$

$$\text{Tang. } 504771 \times 268.21 = 135738$$

96

8

17

7

2961

7

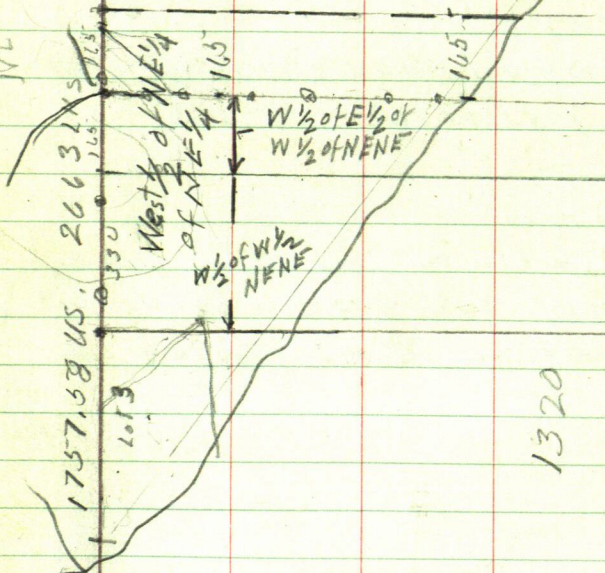
18

660
165-
825-

660

E 1/2 1/4
NE 1/4
NE 1/4

NE 1/4
NE 1/4



Sec 18-142-30

1757.68 US.

2663.14

165

West 1/2 of NE 1/4

W 1/2 of E 1/2 of NE 1/4

W 1/2 of NW 1/4 NE 1/4

1320

16'16"

Cotang 3.427133 & 94.41 ~ 323.56

1842
660
24.2

Lot 3 + $W\frac{1}{2}$ of $W\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$
 + $W\frac{1}{2}$ of $W\frac{1}{2}$ of $E\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$
 in name of

Paul B & Lillian Hill Hauser

Book 98 of Deeds page 138

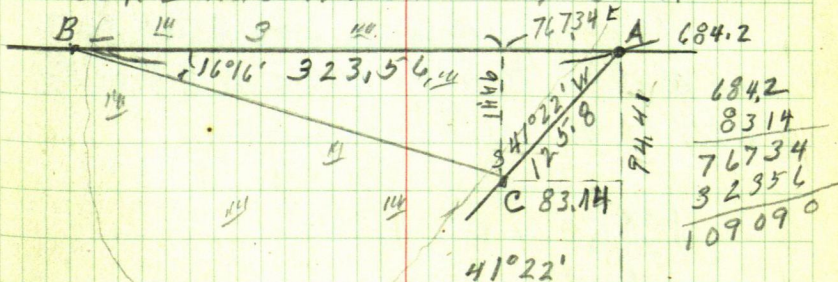
a $\frac{1}{2}$ interest in lot 3 + $W\frac{1}{2}$ of $W\frac{1}{2}$ of
 $NE\frac{1}{4}$ of $NE\frac{1}{4}$ - $W\frac{1}{2}$ of $W\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$
 and $W\frac{1}{2}$ of $E\frac{1}{2}$ of $W\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$
 $W\frac{1}{2}$ of $W\frac{1}{2}$ of $E\frac{1}{2}$ of $W\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$

Sec 18 - 142 - 30

A $\frac{1}{2}$ interest in Gov't Lot 3 +
 West $\frac{1}{2}$ of the $W\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$ and
 $W\frac{1}{2}$ of $E\frac{1}{2}$ of $W\frac{1}{2}$ of $NE\frac{1}{4}$ of $NE\frac{1}{4}$

Checking figures on page 91 this Book

684.2 hub on E side swp Sta A



684.2
83.14
767.34
323.56
1090.90

$$\sin 66.875^\circ \times 125.8 = 83.14$$

$$\cos 66.875^\circ \times 125.8 = 94.41$$

Sta B 1090.90 W of sec corner

Pg. 92 split in & tar road is
 15-29 ft W of Sec Cor
 from 15-29.0 W run S 62° E
 - 13 20
 209.0

$$62^\circ = E 28^\circ S$$

$$\text{Sine } 469472 \times 23672 = 111.13$$

$$\text{Cosine } 882914 \text{ into } 209. = 236.72 \text{ to } 1/16$$

$$\text{Tang } 531709 \times 209. = 111.127 - 111.13$$

330

165

49.5

209

704

to center of E 1/2 of E 1/2 of NW 1/4

$$469472 \times 797.36 = 374.33$$

$$882914 \text{ into } 704 = 797.36$$

$$531709 \times 704 = 374.32$$

hub on E side ramp 684.2 W of Sec Cor
 run W 140.8 to 825. to E of E 1/2 of NW 1/4
 of NE 1/4 NE 1/4

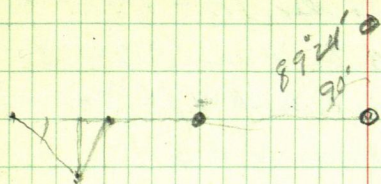
684.2

140.8

825.0

⑩

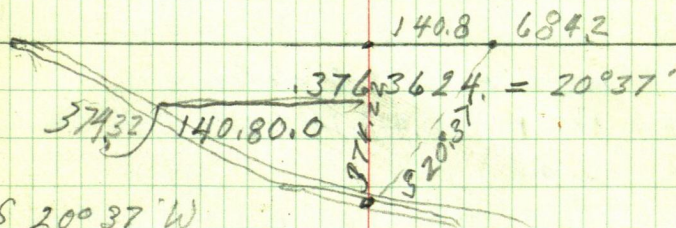
Mon June 23-1957



$$\begin{array}{r}
 660 \\
 165 \\
 \hline
 825 \\
 684.2 \\
 \hline
 1,408.
 \end{array}$$

Ed & I to Max Bakers Resort
 Sec 18-142-30

Now hub 684.2 BS Kon flag at
 I.M. Turn 90° run South hit trees

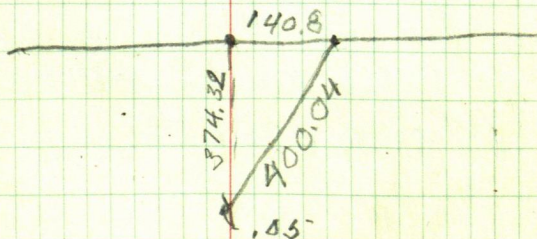


S 20°37' W

$$\sin 35.2114 \times 400.04 = 140.85$$

$$\cos 35.957 \text{ into } 374.32 = 400.04$$

$$\tan 9, 376.207 \div 374.32 = 140.82$$



PM

Don - Ed + I to Sec. 18 - 142-30
 T still over 684.2 run S $20^{\circ}37'W$
 400.04 ft set pile. hub 4 ft S of road
 Tower 400.04 run N + S
 road runs N $61^{\circ}W$
 Sine 484810
 cosine 874620 into 50 = 57.17
 Tang, 554309

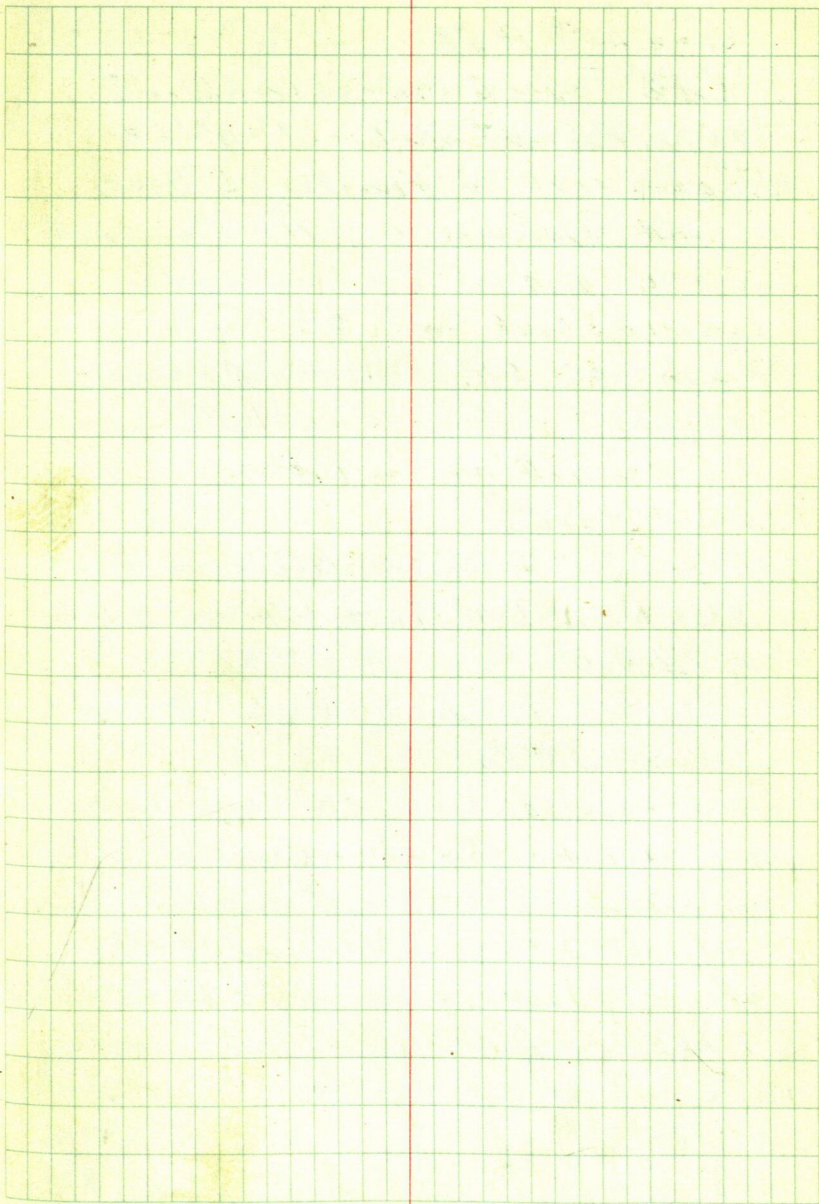
From I Mar lake shore - 10 p.m.
 water chain N @ 170 cross creek
 @ 200 p.m. @ 210 ft ditch
 $200 + 152 = 350.2 = 8.342.2$ to I Mar South
 side swp.

from I Mar N side swp chain N
 $200.4 - 4 = 196.4$ ft to pt for I Mar
 R/w line + 36.0 hub under T
 R/w to $\Phi =$

from hub under T chain N @ 78.75
 pt for I Mar R/w line + 111.0 ft for I Mar
 10 ft S of swp. + 10 ft E of swp

78.75

101



Lakeside Add. to Hackensack Art Falk

June 14th 1938.

Ed + I to Court house where I
copy Plat of Lakeside Add to
Hackensack in Register of Deeds
office then drive to Hackensack
pick up Art at store and go to
Lakeside look for I.M.

find 2 1/4" I.M. at SE cor Bk 5
also a 1" I.M. at SE cor Bk 6
dinner with Art.

P.M.

Rever I.M. SE cor Bk 5 sit.

West on I.M. 1 inch. pipe on S line
of Bk 5 Turn R. $71^{\circ}07'$

Transit Telescope + run S 40 ft
 $71^{\circ}07' = 18^{\circ}53'$

sin 323642

cos 946180 into $40 = 42.28$

run S at 60^d angle but on top from
but on top chain N down hill @
 $120 \text{ pin} + 150 = 270 \text{ pin} + 78.95 = 348.95$
to I.M. SE cor Bk. 5 of Lakeside Add.
from I.M. chain S 42.28 at 120^d angle
@ 30.85 at 120^d angle + $51.5 + 51.5 +$
 51.5

270
7895-
348.95

310-
5
257.5

2575
-3085
28835
42
3305

103

515-
3090
30.85-
3398.5-
42.28
38213
34895-
33.18

from Hub 348.95 chain
S 33.18 at lot cor + 51.5
at SE cor lot 1. Bk 4
of Lakeside Add.

Travel SE cor lot Bk 4 site. N on W side
of Oak Street Turn R. $103^{\circ}12'$
set spike on S line of Plat.

Note: at hub on S side of Oak St. 348.95 ft
S of IM at SE cor of Bk 5 I turn 90° and
at 20 ft set 60° spike but @ 40 set 60° spike
Tst. VI at SE cor of Bk 4 site North
on IM & turn R $103^{\circ}12'$ set spike on top
at 90° chain 20 ft then 20 = 40 at both pts
set 60° spike one for E Oak street and one
for E side Oak St.

Tst. II at SE cor Bk 4 site E at spike
on top Turn L 90° and at 20' set spike
N side of 20 ft alley extended
Move T E to spike on top site West
Turn R 90° at 20 ft set spike on N side
of alley

Travel spike on E side of Oak St.
and set 120° spike at intersection of Oak St

Art. Falk. Hackensack
Lakeside Add. BIK 2-4

and Alley being SW corner of
BIK 2 of Lakeside Add. to Hack.
from which I chain N along
East side of Oak street and
set 60° apks for temp NW cor
said BIK 2.

from SW cor said BIK 2 run E
along N line of Alley set but
quit after 6 o'clock drive to Walker
plan to go back to morrow & finish
if I can.

Art Falk Lakeside Add to Hochmeger 1958
Sunday 15th 1958

Don & I to Lakeside Add.
from SW cor BLK 2 chain E along
Stone N line of Alley @ 130 pm
+ 280 = 360 pm + 200 = 560. + 90

652.1
360
292.1

92.1
452.1 set 60 h. spike
edged road

Turn 652.1 site Weston N line
Alley - Stone BLK 2 Turn R. 102° 16'
hit light pole. we got spike at NW
cor BLK 2 Turn 60 h. spike site N along
Elm Oak Street Turn R. 103° 12'
hit big oak tree

Turn back L 90° at 13' set spike on offset
line 13 ft N of N line BLK 2

Turn offset hit site N Turn 90°
run E parallel to N line of BLK 2

at 715.8 set spike hit Tower
715.8 site W on offset line

Turn L 90° hit light pole.

set hit west along offset line

107.04 ft

move T to hit. Turn 90° run S 13 ft

Turn hit 103.04 West along offset line
+ 13 ft S on South Park Ave Turn 90°
and run E along South Park Ave. 103.04
set pt N edge of light pole hole. then thru pt
chain S along Birch St. 145.1 to hit at SE cor BLK

106

BIK 5

4 3 2 1

40 X 200 1/2

LAKE

BIK 6

BIK 7

SHORE DRIVE

40

40

8

7

6

BIK 4

5

4

3

2

40

40

95

13

12 11 10 9 8

Park

Ave

2

6

7

8

5

4

3

2

1

BIK 3

12

11

10

9

8

7

6

5

4

3

2

1

40

40

200

42 1/2

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

40

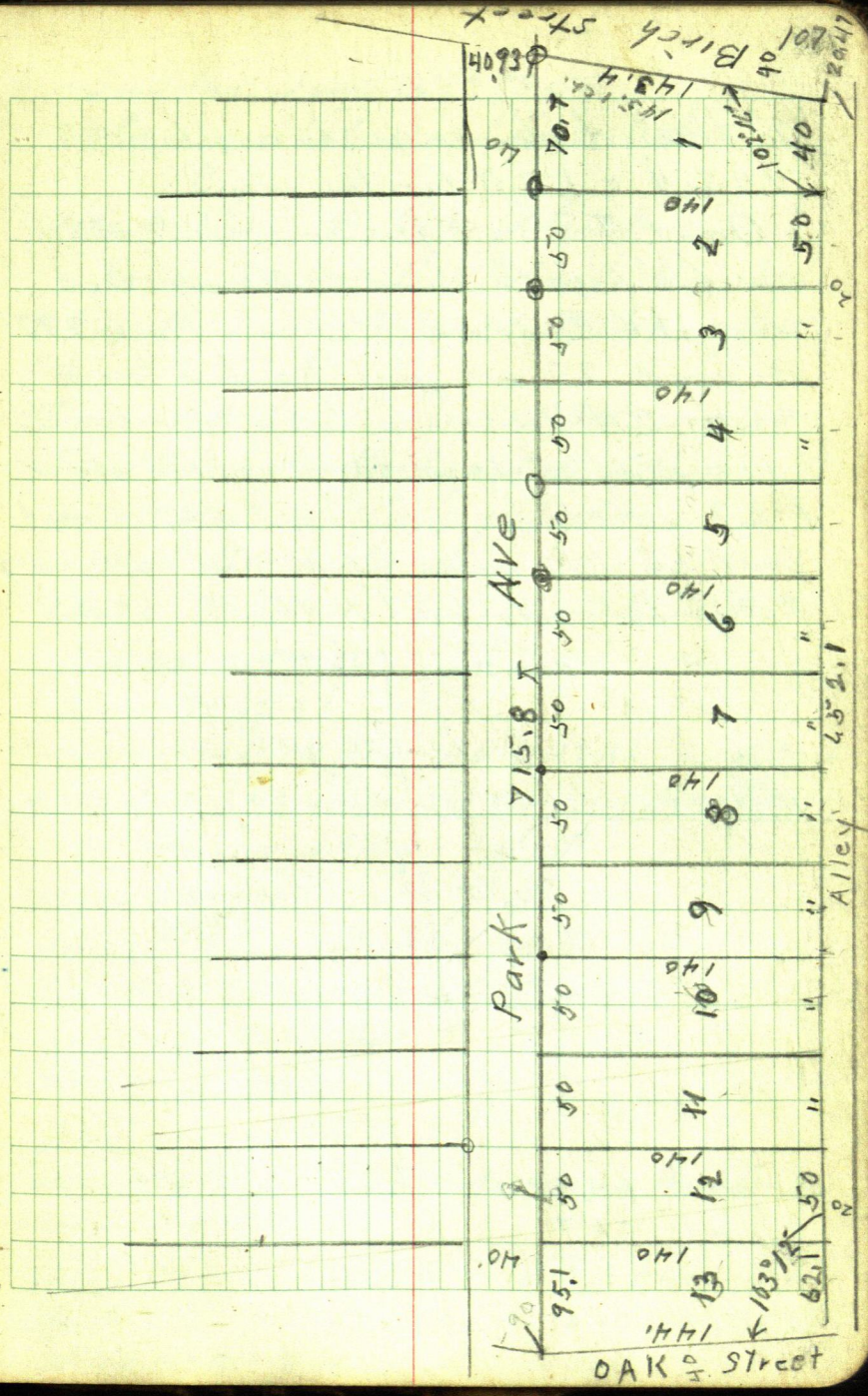
530

40

390

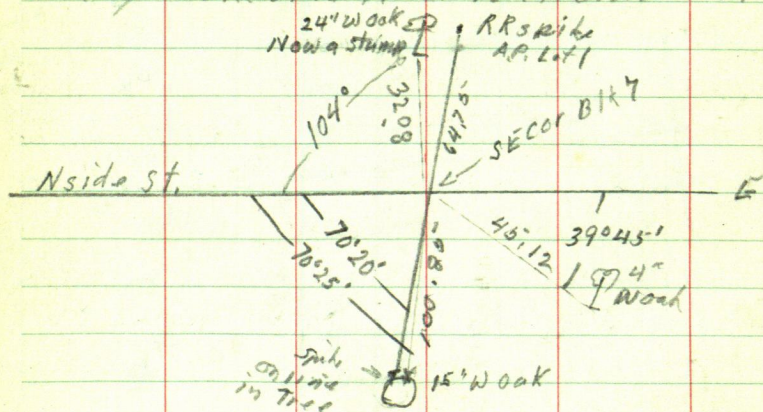
62

20 ft Alley



2. this distance given on plat is
 $143.4 = 1.7$ ft two long.

Don't I look for corners to check
 our lines with find nothing look
 up J.W.C. old notes in Book 257
 on page 27 we find his tie to SE
 corner B1K 7 from which we locate
 1 inch pipe at said corner from SE cor
 B1K 7 we chain North by 64.75 and
 find his RR spike at A.P. of Lot 1 B1K 7
 Plat of Lakeside Add to Hockmash



home early

Tie to SW cor B1K 7 on page 25
 Book 257

Sunday June 15th 1958

sleep awhile and go to Office

Fig. W.

West line Birch Street

Turn SE cor Blk 7 site Non but
RRapids Turn 90° set spike on offset
line in street

Turn A.P. 64.75' site on SE cor Blk 7

Turn 90° set offset spike in street
run S westerly along offset line W
side of Birch Street

64.75' to N line Lakeshore drive +

$$70^{\circ}20' = 19^{\circ}40'$$

Sine 336547

Cosine 941666 into 40' = 42.48 over street
+ 200 ft = 242.48 to SE cor lot 1 Blk 3

$$73^{\circ}35' \text{ angle at Alley} = 16^{\circ}25'$$

Sine 282620

Cosine 959232 into 20 = 20.85 over alley.
then 200 to SE cor Blk 3

angle over Park Ave

$$77^{\circ}44' = 12^{\circ}16'$$

Sine 212462

Cosine 977169 into 40 = 40.93 over Park Ave to
NE cor Blk 2

from offset but at SE cor Blk 7 chain S on
offset line $242.48 + 220.85 + 40.93 = 504.26$
to NE cor Blk 2 also d plat. + 2047% line

June 16-1958

Ed & I to Lakeside Add to
Village of Hackensack

Tower SE cor BIK 7 site N
on RR spike Turn R. 90° for offset

We find that the IM at SE cor
BIK 7 is 0.80 to far west we re establish
this point from old ties

run S on 10 foot offset East

$$\begin{array}{r}
 242.28 \\
 220.85 \\
 \underline{40.93} \\
 504.06 \\
 \underline{20.85} \\
 524.91
 \end{array}$$

We dig up IM in $\frac{1}{4}$ old tor road
 $S\frac{1}{2}$ Center $S\frac{1}{2}$ sec 19-140-30

site $S0^{\circ}08'E$ on $\frac{1}{4}$ S side sec. 19
& run $N89^{\circ}41'W$ along $S\frac{1}{2}$ line
setting hub.

Tower hub on $S\frac{1}{2}$ line turn 90°
set pin 20 ft N. do this in 2 places
Tower Temp SE cor BIK 2. pin 20'
Not $S\frac{1}{2}$ line bears R. $11^{\circ}29' 34.33$

$$\sin 201933 \times 34.33 = 6.93$$

$$\cos 11^{\circ}29' 34.33 \times 34.33 = 33.62$$

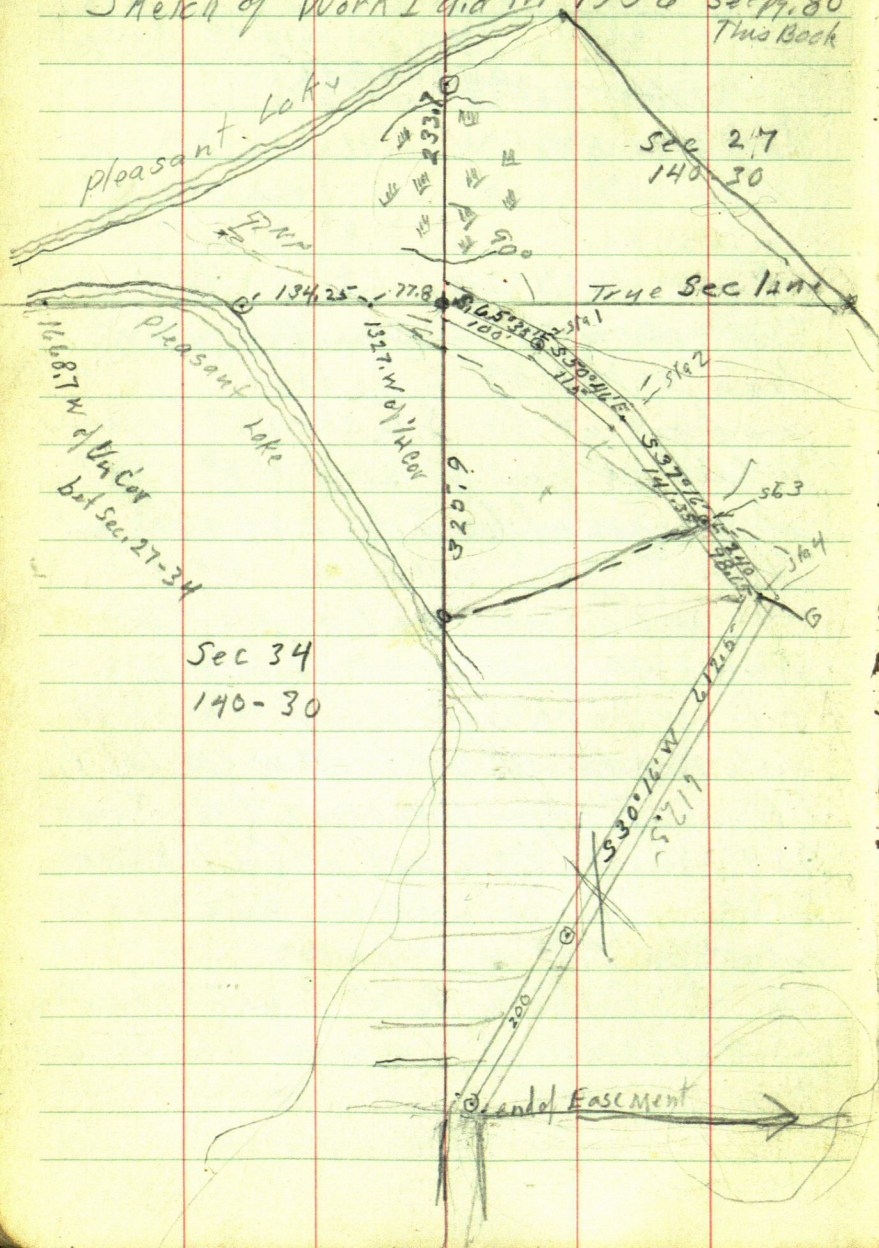
$$\begin{array}{r}
 652.1 \\
 \times 11029' \\
 \hline
 6521 \\
 3362 \\
 \hline
 618.48 \\
 \times 0.11204889 = 0.39' \\
 \hline
 618.48 \quad 693.00
 \end{array}$$

Hub 652.1 E goes N 7.31

6.93

From Hub 652.1 E on N side Alley
 we run N to intersection of
 line 20 ft N of S $\frac{1}{4}$ line
 and set pt for SE cor Blk 2. from
 which we run W 20 ft N of S $\frac{1}{4}$ line
 at 40 set pt for IM + 50 + 50 at
 pt for IM lot corners. we hit
 24" willow on this line west of
 Town 40 = SW cor lot 1 Blk 2
 site W on N side Alley Turn 90
 run N 140. set pt for NW cor lot 1
 Blk 2 Turn NW cor Lot 1 Turn
 90 + run E 70.7 set pt for NE cor
 Blk 2 run W + 50 + 50 + 50 + 50 + 50
 set pt for IM lot corners
 at. That NE cor lot 4 Turn 90 and
 south 140 set pt W of big willow SE cor
 lot 4

Sketch of Work I did in 1956 Sec pp. 80
This Book



Charles Stuart (Arthur's Point) 113

From IM on sec line 134.25 + 77.8
from IM on shore run S along
line 16 ft. to pt from which run
NW to NP tree on rivert

July 1-1958

Ed + I drive to Island Beach Resort
on Pleasant lake Sec 27-140-30

Where we meet Stuart and Woodroff
with Mr Cox we look over the work
they leave Ed + I work

Then IM on sec line bet Sec 27-34
site E on IM. T @ 90° E run N40°24'W
99 ft to E Norway Pine Tree

Fig

MC on sec line NP sets N40°24'W 99 ft.

$$\text{Sine } 648120 \times 99 = 14.16 \text{ W}$$

$$\text{Cosine } 761538 \times 99 = 75.29 \text{ N}$$

$$\text{run E } 134.25 + 77.8 = 212.05 \text{ E}$$

$$S 65^{\circ}35' \text{ E } 100$$

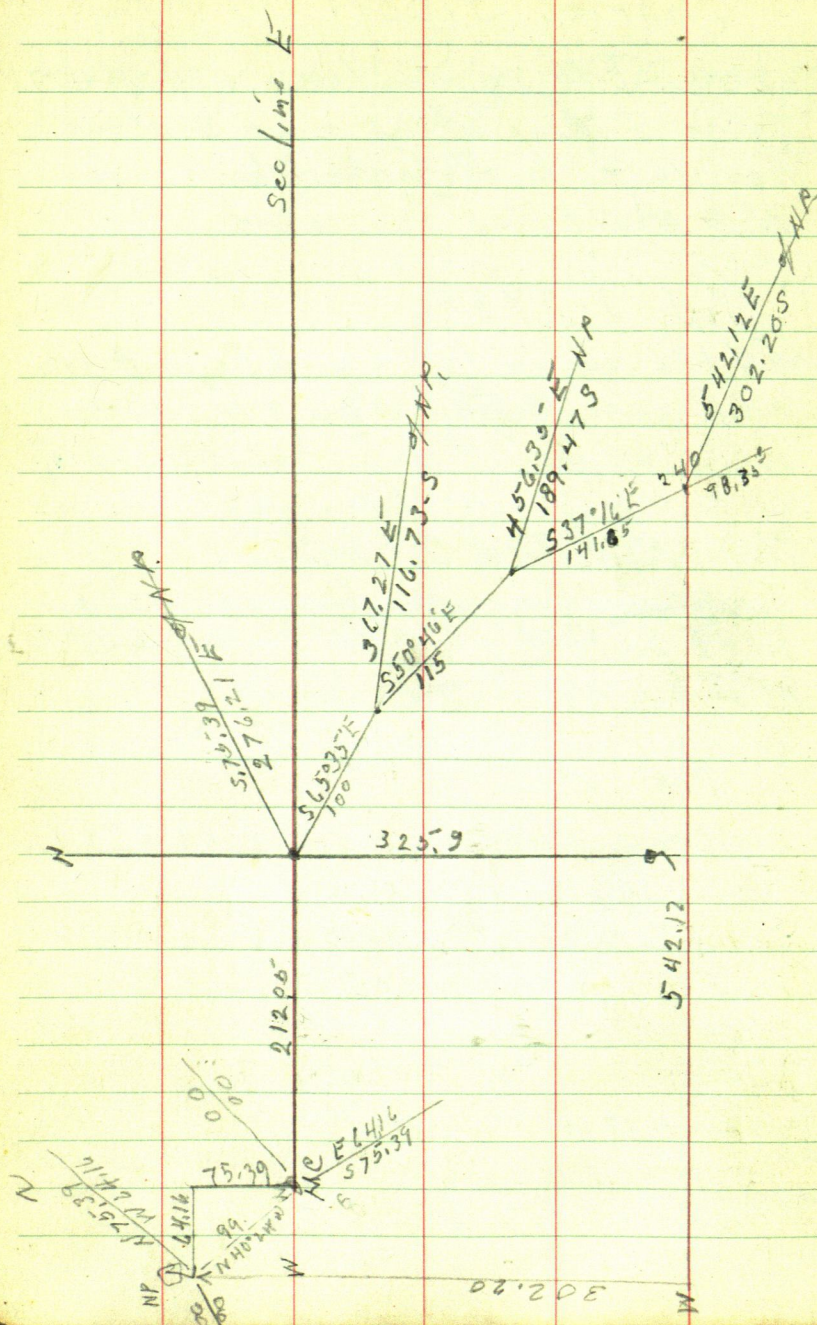
$$\text{Sine } 910563 \times 100 = 91.06 \text{ E}$$

$$\text{Cosine } 413369 \times 100 = 41.34 \text{ S}$$

$$S 50^{\circ}46' \text{ E } 115$$

$$\text{Sine } 774577 \times 115 = 89.08 \text{ E}$$

$$\text{Cosine } 632480 \times 115 = 72.74 \text{ S}$$



8968
2909
6052

115

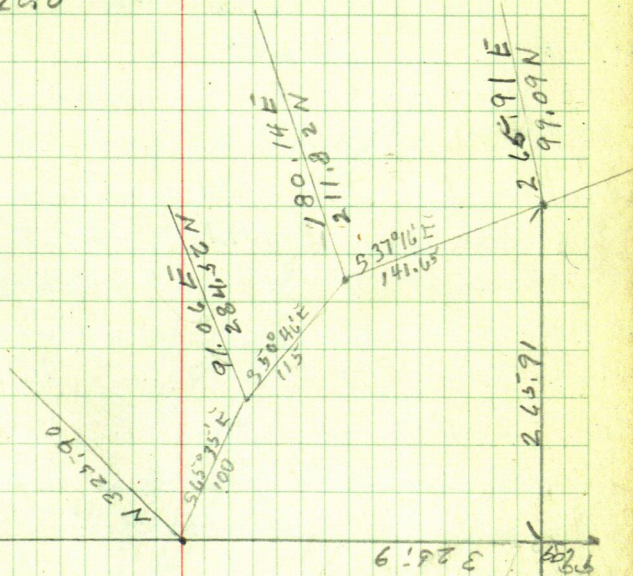
S 37° 16' E 141.65

Sine 6053.26 X 141.65 = 85.77 E

Cosine 7958.26 X 141.65 = 112.73 S

from sta 3 under TV NP tree sets
N 302.2 ft and W 542.12

$542.12 \div 302.200 = 1.8014411 = 29008$ of $60^{\circ} 52' W$



325.9
44.34
284.56
72.74
211.82
112.73
99.09

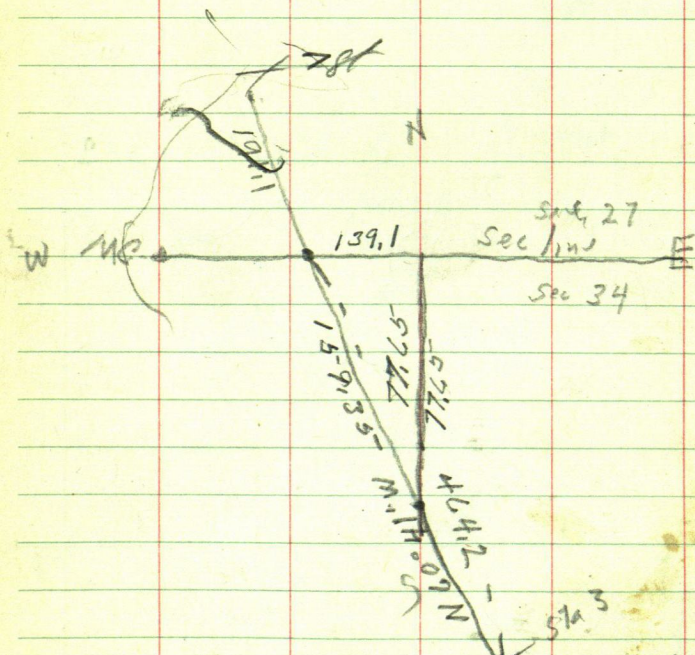
9106
8908
78014
8577
26591

$99.09 \div 265.91 = .37264488$
 $= 20^{\circ} 26'$ of $S. 69^{\circ} 43' W$

Tower St 3 BS N $37^{\circ}16'W$ on sta 2
 and ^{turn} ~~run~~ S $69^{\circ}43'W$ to
 run S

Check courses

Askill at 141.66 S $37^{\circ}16'W$ on
 sta 2 run N $60^{\circ}52'W$ N $60^{\circ}41'W$
 to hit at N of Nader Pine Tree



$$300 + 57.6 = 357.6 \text{ back} + 106.6 =$$

$$106.6$$

$$148.7$$

$$464.2$$

60 +
65.3

180.31487
60
208.7

117

July 2-1958

John + Ed go with me get spikes
at Hackensack pay 90 on bill

drive to Sec 34-140-30

Pleasant Lake

Continue via

Tower hole where I M set at Sta
4 of road easement site N 37° 16' W
on sta 3 + run S. 30° 16' W - 612.5
to sta

John + I beg at Sta 3 chain 5
69° 43' W @ 148.7 hub + 60 = 208.7
mi + 35 = 243.7

208.7 + 74 = 282.7 I Mon seawall
1 ft from water of pond - 3 ft from water
of lake.

from Sta 4 run S 30° 21' E 612.5

Tower 612.5 BS N 30° 21' W on Sta
4 + run E 1° 30' N along picket line
@ 175.35 hub 60° spike + 125.3 = hub
under T. + 38.8 hub 6 ft from water in pond

Tower hub run stake of pond

50' N 54° E

70 N 9° E

190 N 51° 30' E

185 N 74° 30' E

160 N 1° 30' W

100 N 230 N East

270 N 28° 30' E

$$175.35 + 125.3 + 38.8 + 190 =$$

pinover pond,
 $+ 50 + 33 =$ spike in \angle
 road

Then spike in \angle road int. W.
 along line take angle of line with
 road NW angle, 92°

SW angle 88°

Then I M at sea wall N of
 pt 212.05 E of MC on Sec line
 sits S on I M.

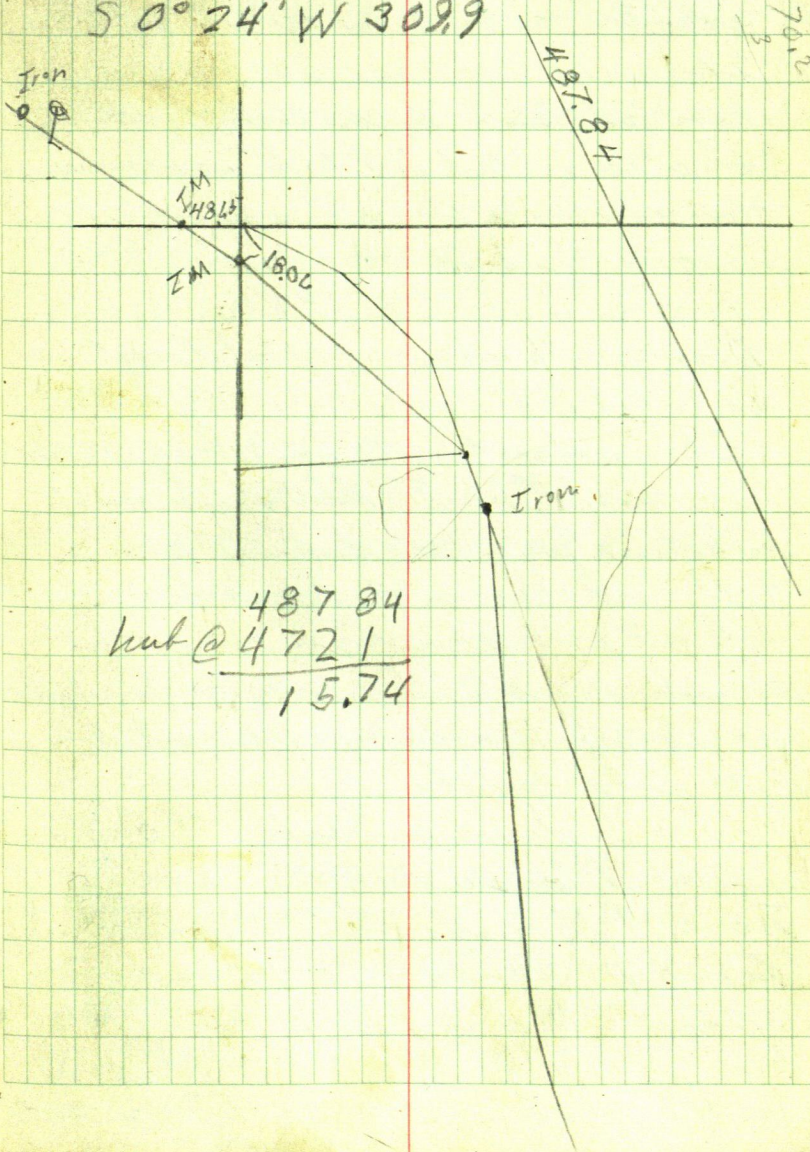
I M on seawall near North Pine
 bears $S 65^\circ 19' W$ 333.6

I M New Tract bears $N 60^\circ 36' E$
 to \angle of top of I M 64. ft

run $S 57^\circ 06' E$ @ 300 hub +
 $172.1 = 472.1$ hub, 15' so of 1" Iron
 $+ 217.5 = 689.6$ hub 60' spike, 20' so of
 1" iron pipe + $284.6 = 974.2$ hub 60' ^{10 50}
 spike, 3' so of 1" pipe + 73.8 hub + 300 ^{13 50}
 $\# 672 = 1417.2$ hub in \angle

Then hub in \angle NW angle reads
 $57^\circ 30' = \text{Cosine. } 843391 \div 33 = 25557$
 edge of R/w

217.5 320
 4721
 217.5
 Kopp 60° up to ϕ site
 N 57° 06' W up to ϕ bears
 S 0° 24' W 309.9



July 29-1958

Last night I get a call from Charles Stuart of Arthur's Point wants road easement in Lot 6 Sec 27- an in Lot 1 Sec. 34-140-30 ran out and description of same also in Lot 6 Sec. 27 he wants description changed as the house they are building is over the line.

To-day July 29-1958

Don goes back to work at Resort by mail boat

Ed + I drive to Arthur's Point where we meet Charles Stuart. he is waiting for a long distance phone call and can not leave his place tell me and shows me what he wants on sketch I made for him in my first survey. He will be over after lunch.

Ed + I drive around to South side of Pleasant Lake

Then I Mon the line between Sec 27 + 34-140-30

Said I'll bring at a pond

20.5 131.5

121

179.75

1297.85 W - 574.01 ft

574.01

783.84 W of NE cor of Lot 1 Sec. 34

run
 Tower 783.84 S. to ~~N~~ $57^{\circ}06'W$
 and run west ft to get in $\frac{1}{2}$
 of road and on the N line of said
 Lot 1. Sec 34-140-35

run S. at 33.1 hub on I.P. of road
 in curve $+22.5' = 55.6$ to center of road

Tower 55.6 into N on I.M.

Crossed $S 83^{\circ}39'W$ 81.2run $S 70^{\circ}12'E$ 90.7

Tower 90.7 run $S 57^{\circ}09'E$ 352.3
 hub on top

Tower hub on top BS $N 57^{\circ}09'W$ run
 $S 56^{\circ}26'E$ 431.5 to hub on approx R/W
 of Camp Road 20.5 S of I.M. Track core

Move N. west.

Tower hub 81.2 BS $N 83^{\circ}39'E$ run
 $S 69^{\circ}26'W$ 170.75

Tower 170.75 BS $N 69^{\circ}26'E$ run. $N 61^{\circ}56'W$ 91.05 $N 56^{\circ}03'W$ 220.1 - 4 = 216.1

Tower 216.1 BS $S 56^{\circ}03'W$ hub 91.05 bears
~~N~~ $S 51^{\circ}49'E$ 125.85

T. still at 216.1 BS S $56^{\circ}03'E$
run N $89^{\circ}42'W$ 134.4

Tower 134.4

run N $74^{\circ}W$ - - -

Tower IM 18.06 S of IM on
Sec line B.S. South and run
N $75^{\circ}23'W$ 181 + 50 - 231
at IM.

Tower 231. BS S $75^{\circ}23'E$
run N $57^{\circ}02'W$ 98' to IM on Shore
road Easement in Lot 1 - Sec 34. 40-30
beg etc a point on the Northerly R/W
line of the County road. placed
at a point

Sec 27-148-30 ①

April 29-1959 123

Harry G. Cox

They picked up Bobby + John last night April 28 - I + Bert got up early and drove around 6th Lake looking for the boys - at 9-30 I went to court house planning on going to work stopped in to see "Buck" told him we had been out looking for the boys Then "Buck" told me they had been picked up and were in the jail that John had been shot -

I call Bert and then go tell Harry that I would not be going to work to day go home get Bert and drive to Court House Jim says to wait until after dinner to see the boys. while we are talking to Jim he gets a telephone call saying Judge Oliver is having the boys hearing this PM at 1-30

They think they are going to Railroad them both to Red Wing.

I go home and call Hilding Swanson of Brainerd who calls Judge Oliver and stop the hearing until Monday P.M. 2 o'clock

April 29th 1955

Herb + I take clean clothes to the boys at about 1-30- they are after the boys for their hearing. I am to get papers from Judge Oliver and send them to Swanson to-day they are not ready coming after said papers is the only way I found out they were going ahead with the hearing -

When I showed up that stoped them - they were to take John to the Dr. this morning for his shot wound and never did they finally turned John over to me to take home and to the Dr. at 3 oclock in P.M. to have wound taken care off

at 4-15 I go back to Judge Oliver's for papers He is gone and papers not ready. I am in my office writting this while waiting for said papers. If I do not get them in time to send to Swanson I will call Swanson and tell him

Cox Sec 27-140-30
April 30-1959

125

pick up Larry Oliver drive to Sec
27-140-30 N+S $\frac{1}{2}$ sec page 34-39
this book we drive to Cox's who goes with
us and shows us what he wants we
go to County or Twp road along N+S $\frac{1}{2}$
sec. 27-140-30 at top of big hill we look
for ties to our spike hub set in 1947
page 35 this book call for spike in $\frac{1}{2}$ road
with the following Ties

14" Red Oak N50°04' - 52.06

16" W Oak N67°22'W 56.90

we find the 16" W Oak stump with
blaze and a Oak stump partly rotted
E from there we chain and set a 60%
spike in $\frac{1}{2}$ N+S Road as the E stump
is rotten I am not sure where to measure
from We go North to Dr. Peterson's
tract which we were surveying out
at the time we set these hub and
marked said ties Dr. Peterson had
the N460 feet of Gov't lot 4 Sec. 27
west of Road.

We find the I M's at NE & SE cor.
33 ft out from $\frac{1}{2}$ road

Go to dinner at Hackensack \$1.30 by me.

PM.

Back to Dr. Petersens tract

Tower NE Cor site W on flag at NW Cor
Note: this should be the N line of Scott lot4 sec. 27-140-30 run E 33 ft set 60^d spikea Tower SE Cor site W on SW Cor run
E 33 ft set 60^d spikeTower 60^d spike site N on 60^d spike 33
ft out and set spike on topfrom spike on top chain N down hill
at 1348.2 spike 33 ft E of Dr. Petersens
N line.

$$\begin{array}{r}
 2636.2 \\
 1348.2 \\
 \hline
 3984.4 \\
 3954.3 \\
 \hline
 30.1
 \end{array}$$

Tower NE Cor of Dr. Petersens Tract
site W on flag at Petersens NW CorTurn L - SW angle reads $89^{\circ}40'30''$.move N south 1318.1 ft site N on spike
in road Transit Telescope and. Turn SW
angle back to $0^{\circ} = 89^{\circ}40'30''$ the N line
of Scott lot then lines run SW angle
 $89^{\circ}36'30''$ the Stone lot 4 runs SW angle
 $89^{\circ}38'15'' = 0^{\circ}02'15''$ difference

May 1st 1959

get Letter from Donald he is on his way
Home get clamps to Tripode. tell John
to put them on. pick up Larry Oliver
drive to S $\frac{1}{4}$ at ~~4~~ S $\frac{1}{4}$ Sec. 27
140-30

Tower hut on bank on S $\frac{1}{4}$ line sec
27 W of road site E on line set
on side hill near water

from spike on shore 10 ft from water
3 ft from bank chain E at 35 ft hut
on top + 94.35 hut + 50.25 = 179.60 hut
35 - 179.6

94.35
50.25
179.60 A.P.

Tower 179.60 E site E on flag + run
S. $3^{\circ}40'E$ 180 ft A.P.

Tower 180 BS N $3^{\circ}40'W$ run.
S. $2^{\circ}19'W$ 140 ft A.P.

Tower 140 BS N $2^{\circ}19'E$ run
S. $19^{\circ}51'W$ 360'

Tower 360 BS N $19^{\circ}51'E$ + run
N $64^{\circ}40'W$ 204.4 + 15 to foot 15 to water

dinner with Mr + Mrs Cox
P.M.

we go to A Pon N line Gov't lot
5 - Sec. 27-140-30 and continue
chaining E from AP which is 179.4
E of spike on shore of Lake
 $179.6^E + 149.7^E = 329.3^E$ hub + 69.45 =
 398.75 hub. + 74.2 = 472.95 hub
 edge of road, + 21.65 = 494.6 ft in E
 road.

I write description

Tract or parcel of Land situated
in Gov't lot 1 sec 34-140-30
described as follows beg at NE
cor said lot 1 thence West along
N line of said lot 783.84 ft to IM
thence S $57^{\circ}06'E$ 933.57 ft to E
line said lot 1 a distance of 933.57
ft to E line thence N along E line
507.09 ft to place of beg. subject
to R-of-W road. N line lot 1 is E + W
also

All of Lot 5 Sec. 27-140-30 Except
yellow described tracts

all that portion of said lot 5
lying west of a line drawn as follows
beg at a IM on S line of lot 5
783.84 ft W of SE corner and running
thence N $57^{\circ}06'W$ to shore of Pleasant
lake at 487.84 ft an IM on bank
of said lake - S line lot 5 is E + W

Also except the following beg
at intersection of N line lot 5 with
water edge of Pleasant lake thence
E along said N line 190 ft \pm to a
point on said N line 313.00 ft W

of NE Cor of said lot 5 place of
 beg. Thence S $30^{\circ}40'E$ 180 ft to
 apt. Thence S $20^{\circ}19'W$ 140 " c
 " " " S $190^{\circ}51'W$ 360 " c
 " " " N $64^{\circ}40'W$ 204.4 feet
 on bank of said lake and continue
 N $64^{\circ}40'W$ to waters edge thence
 Northward along waters edge to place
 of beg. to gather with an easement
 roadway 33 ft in width leading
 from the SE cor of above described
 tract Northward to the N line thence
 East along S side of N line to
 Road. Subject to R/W of road

Lot 1 Sec. 26 - 141-31

131

Portage Lake.

Feb. 22nd 1961

Mr. Noran Hackensack has a part of Lot 1 Sec. 26 - 141-31. He comes to my office with Mr. Quirk Spain & runs the line for the decript which Mr. Noran does not think is right.

I am to meet him to morrow at 9 o'clock on N shore of Ten Mile Lake.

copy deed

Hugh V. Norton & Ruth
to

Joseph Daniel Noran

All that portion of Gov't Lot 1 Sec 24 141-31 described as follows

Begin at the SW cor of Gov't lot 1 am IM for the MC. run N along the W line of Gov't lot 1 - 300 ft to a point. thence deflect R $54^{\circ}42'$ and run (N $54^{\circ}42'$ E) 2400 ft to a point thence deflect R. $125^{\circ}18'$ & run prox 300 ft to the shore of Portage Lake thence S westerly along said shore to place of beg.

Howard Quick Roy Quick

Feb 23rd 1961

Ed - Bob + I drive to Gov't lot
 Sec. 24-141-31 where we meet
 Noran who has Howard Quick +
 Roy Quick with him to help cut
 line

Tower Oak hub set by Spain
 300 ft N of SW cor IM said lot 1
 site South on IM MC and
 run N54°42'E @ 46 ft from N15
 @ 130 Lv bog. @ 230 pin + 40.1 = 270.1
 at (200) old dirt road N E S W

270.1 hub on top + 253 = 523.1 hub
 523.1 + 80 = 603.1 pin + 222.7 =
 825.8 hub + 50 pin = 875.8

875.8

+ 40

915.8 pin + 20 edge of water killed tree
 + 80

995 edge of open water pond.

915.8 +

100

1015.8 pin on ice

+ 180

1195.8 Lv pond

55.7

40

385

30.15

1015.8 +

190.1

1205.9 hub

154.7

1360.6 hub

+ 200

1560.6 min

+ 40.1

1600.7

+ .85

1601.55 spk in fence line

dinner at Haskensack

Quick's go home at noon
PM

Ed Bob + I

Turn hub 1600.7 site SW. Var. at 00

Turn 125° 18' R = SE angle Will not work

Turn hub 1600.7 site S 34° 42' W + ran

S 45° 35' E at 55.7 hub in C

@ 199.6 hub on seawall

+ 36.15

235.75 hub 12 ft from ice

Back over NW Cor Noran 300 ft
 track set up in hub via Φ road

45.2 ft N of MC

S side of Φ road

90.5 S 86° 58' E AP

74.5 N 74° 55' E

157 N 70° 48' E AP

196 N 56° 06' E

280 N 60° 21' E AP 3

56 N 60° 06' E

98 N 52° 14' E

207 N 40° 05' E AP V 4

203 N 24° 46' E

280 N 28° 06' E AP V 5

57 N 64° 51' E

198 N 74° 29' E AP V 6

76 N 37° 30' E

245 N 22° 08' E AP V 7

110 N 39° 48' E AP 8

59 N 30° 37' E

185 N 23° 11' E AP

Tower spike on seawall 199.6 ft
 S of NE cor of Nolan Tract
 Take stada of shore of Portage
 Rough work.

194 S $70^{\circ}15'E$ 260 S $140^{\circ}25'W$ 310-S $25^{\circ}12'W$
 386-S $28^{\circ}51'W$ - 453-S $27^{\circ}56'W$
 600-S $28^{\circ}34'W$ sta 1

Tower Sta 1 BS N $28^{\circ}34'E$ run

119-N $40^{\circ}18'E$ 130 N $62^{\circ}58'E$

101 N $78^{\circ}43'E$ 18. N $52^{\circ}59'E$

122 N $43^{\circ}38'W$ 196 N $67^{\circ}05'W$

283 N $83^{\circ}25'W$ 364 S $87^{\circ}13'W$

431 S $72^{\circ}57'W$

460 S $49^{\circ}11'W$ sta 2

Tower Sta 2 BS N $49^{\circ}11'E$ run

160 S $80^{\circ}37'W$ 345-S $72^{\circ}31'W$

570 S $61^{\circ}25'W$ sta 3

Tower Sta 3 BS N $61^{\circ}25'E$ run

72-S $76^{\circ}06'W$ 146-S $79^{\circ}29'W$

281 S $75^{\circ}37'W$ 424 N $89^{\circ}11'W$

134

2012

24013

13915

180
6.8

932

Feb 28th 1961

Bob- Ed + I to Portage Lake
Tower Spains hut 300' N on
W line sec. 24-141-31

Site South on flag. at Mc
Tarn N E angle 51°07' and
run N 51°07' E

Bob + I check chain from Mc
North to hut under T.

find hut on N edge of road
MKP. 3958.7 about 8 ft W of line
We find this 300' ft hut only
299.7 at 230 edge of sup.

PM

Bob + I chain @ 130 Lu sup

230 pin + 63.53 = 293.55 hut +

236.65 ± 530.20 hut

+ 80

610.20 pin + 70 extra run

of sup 610 + 120 Lu same sup extends
about 20 ft S in center

610.2 + 269.0 = 879.2 hut

+ 30

909.2 pin + 40 =

high water mark 909. + 100

@ 1010 edge of ice

293.53 150
236.62 80
530.20

230
63.55

7000
45
6955

240.34 137
239.65

909.2 + 300 = 1209.2 ³ min ar ice
+ 93.2 = ^{93.2}
mud shore ^W ice + 1302.4 ¹ spike hub in
1302.4 + 235.3
120 + 1537.7 hub
+ 41

1422 ¹ high water MKD. 1578 cross fence

1537.7
127.5

1675.2 hub under X +
+ 80

1755.2 ¹ high water mark sup
+ 300.

2055.2 min edge of road fill
+ 12.2

2067.4 hub in Φ . 20.67.4
80 ² edge 275

2147.4 edge of ice 23.42

@ 2342. in line with fence N

Tr over hub 2067.4 BS $S 51^{\circ} 07' W$
 Take stada of approx waterline
 of Portage Lake

335-S-00-29'E

170-S-13°E

158-N-37°-21'E

202 N-37° 21'E

248-N-40°-08'E

303-N-47°-56'E

362-N-55°-48'E

440-N-61°-35'E

Tr over hub 1205.9 N $54^{\circ} 42' E$

(this hub was on first Random line)

F3N $54^{\circ} 42' E$ and take stada of pond

65' N $15^{\circ} 58' N$

72' S $78^{\circ} 30' E$

82' S $23^{\circ} 45' E$ ✓

42' S $16^{\circ} 53' W$

66' S $26^{\circ} 11' W$

→ 82' S $12^{\circ} 19' W$

150 S $24^{\circ} 34' W$

200 S $22^{\circ} 41' W$

205 S $29^{\circ} 45' W$

197 S $40^{\circ} 49' W$

212 S $53^{\circ} 32' W$

245 $584^{\circ} 53' W$

28.5 $N 8^{\circ} E$

133 $N 20^{\circ} E$

193 $N 21^{\circ} E$

Sept 21 - 1962

N 54°42'E

Sine 81614 into 100 = 122.53

Cosine 57786 into 100 = 173.05

N 51°07'E

Sine 77843 into 100 = 128.46 MOK E

Cosine 62774 into 100 = 159.30 E

77843	62774
X 15930	15930
<hr/>	<hr/>
12400	999989

77843	62774
X 12846	12846
<hr/>	<hr/>
99997	8064

Sept 21-1862

Bob - John & I

Tower IM, SW Cor lot 1 Sec 24

141-31 site N on sec line and run
N $51^{\circ}07'E$

Work Tom line bet NW & SW corners
of Lot 1 Sec 24-141-31 Turn 90° at
spike 33 ft E = E line of street

Tower IM SW Cor lot 1 site N Varion 00°

Turn 90° at spike 33 ft E

Tower 33 ft spike site N and turn $51^{\circ}07'2$
at 100 spikes at 200 spikes at 300 spikes

400-500-600-700-800-900-1000-1100 spikes all
on line spikes between 12-13 out of line on
rock from stake 14-17

172 to fence

①
Lot 4 Sec 7-142-30
March 7-1964

Leonard Peterson Reg. of Deeds
Walker comes to Akeley to see me
as he wants the lines of Lot 4- Sec 7
142-30 ran out & marked.

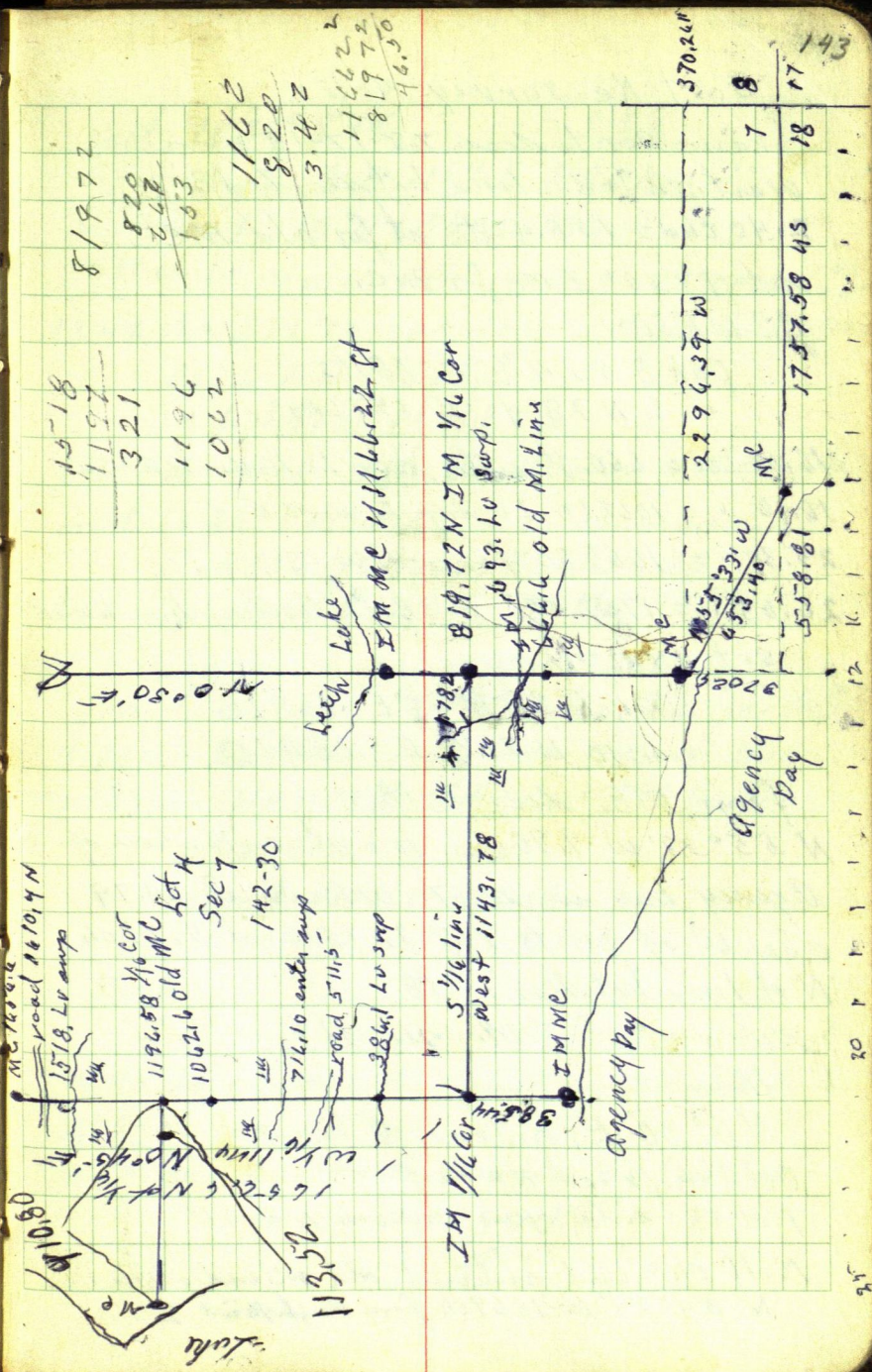
Sunday March 8th 1964

Leonard Peterson came to Akeley and
took me to Sec. 7-142-30
showed me US Brass Cap Man an
Range line bet Sec. 7-142-30 &
Sec 12-142-31 on N. shore of
Agency Bay, at the MC on N shore
Agency bay on W $\frac{1}{4}$ line a US Brass
Cap man - ~~this~~ this is the SW cor of
~~the~~ Lot 4- Sec. 7-142-30 we go look
for the MC S E cor lot 4 on Bank of
Agency bay gone.

Leonard takes me home to Akeley
I check & look over U.S. Re-survey
notes of said Sec 7-142-30
as shown on next page

1196.38
1022.6
134
1656.6
1196
400.

1656.6
1618.4
46.2
1656.6
1196.58
400.



Gov't Re-survey Notes

from cor to Sec. 7-8-17-18 run
west, on true line bet Sec. 7-18
2.40 chs = 158.4 ft pt for old MC
set 1x36" I.M. for MC.

from which

Oak 8 S $74\frac{1}{2}^{\circ}$ E 78 Lks

" 6 N $78^{\circ}45'$ E 157 Lks

10.00 chs = 660 ft enter sup Lv timber NE-SW

16.10 " = 1062.60 Lv sup NW-SE

25.30 " = 1669.80 fence NW-S

26.63 " = 1757.58' E shore Agency bay NW-SE

set 1x36" I.M.

Oak 6 S ~~85~~⁸³ $^{\circ}$ E 168 Lks

" 10 N $72\frac{1}{2}^{\circ}$ E 184 Lks

from MC, Sec. 7-18

N $55^{\circ}33'$ W 9.90 chs to apt, on N shore of
Agency bay in Sec. 7 which is 34.79
chs W of cor to 7-8-17-18 and 5.61 ch
N of line bet Sec. 7-18

set 1x36" I.M. No B.Ts.

thence

N $0^{\circ}30'$ E on true E line 7

0.60 ch. road NW-SE

1.00 ch enter open marsh NW-SE

10.10 ch = 666.6 intersect old meander line.

N $54^{\circ}29'$ W 18.69 ch from angle point 2

74 2
444
444

74 2
444
444
4884

579
6
234
234
2574

539
6
234
234

143-

set 1x36" IM.

Poplar 6 N $11\frac{1}{2}^{\circ}$ E 118 Lks

" 10 N $63\frac{1}{2}^{\circ}$ W 188 "

1050 ch LV marsh enter poplar grove on upland NW SE

1242 ch = 819.72 set 1x36" IM for CS $\frac{1}{4}$ cor

Oak 6 East 9 Lks

" 6 S $82\frac{1}{4}^{\circ}$ W 106 Lks

17.67 ch = 1166.22 ft the W. shore of Leech Lake

set 1x36" IM mc

Oak 10 S $42\frac{3}{4}^{\circ}$ E 39 Lks = 25.74

" 12 N $53\frac{1}{4}^{\circ}$ W 74 Lks 48.84

from C S $\frac{1}{4}$ cor. West on a true S $\frac{1}{4}$ line Sec 7

2.70 ch LV timber enter open marsh N-S

1733 ch = 1143.78 ft set 1x36" IM for SW

$\frac{1}{4}$ cor

Pop. 8 S 52° W 178 Lks

" 8 N $77\frac{3}{4}^{\circ}$ W 190 Lks

thru

S $0^{\circ}45'W$ on a true W $\frac{1}{4}$ line Sec 7

4.45 LV marsh enter upland covered with Poplar

5.80 ch road E to W

584 ch = 385.44 ft N shore Agency bay

N $85\frac{1}{2}^{\circ}$ W & S $85\frac{1}{4}^{\circ}$ E

set 1x36" IM mc.

146

43

70

$$\begin{array}{r} 258 \\ 258 \\ \hline 258 \\ 25.38 \end{array}$$

$$\begin{array}{r} 420 \\ 420 \\ \hline 420 \end{array}$$

Sum which.

Oak 8 N $76\frac{1}{4}^\circ$ E 24 Lks" 6 N $33\frac{1}{4}^\circ$ W 15 Lksfrom SW $\frac{1}{16}$ N $0^\circ 45'$ E on a true W $\frac{1}{16}$ meander line

5-85 ch Lv swamp enter narrow strip of high land NE-SW

7.75 chs road NE-SW

10.85 chs enter marsh NE-SW

16.10 = 1062.6 intersect old meander line

N $39^\circ 48'$ W 1983 chs from angle pt. 3set 1x $36" \text{ I.M. } \text{N.E.}$

NO BTs

1813 set I.M. for C W $\frac{1}{16}$ Oak 10 N $77\frac{1}{4}^\circ$ E 355 Lks

No other trees

2300 ch Lv marsh enter strip of high land scattering timber & brush SE NW

24.40 ch road E-W = 1610.40 ft

25.10 ch = 1656.6 ft the W shore of Leech Lake

Oak 8 S 16° E 70 Lks H 6.20" 10 N 85° W 43 Lks 28.38

3

2510

$$\begin{array}{r} 15060 \\ 15060 \\ \hline 165660 \end{array}$$

16566

1610.4

462

March 13 1964

Robert Caro + I drive to Me 7
142-30 hunt all day looking for
I, M, S and B Ts, on W $\frac{1}{4}$ line sec 7
and on N + S & sec, 7 find nothing
but the I M S W cor lot 4

We look for I M M E but sec
7-18 snow deep.

As I run the sec. line from cor
to sec. 7-8-17-18 W to the shore of
Agency bay for Baker Resort in
1957 I do not have this book with me
see page 90 to 100

~~page 73~~ Gov't Re-Survey page 144
says This to M C, says @ 1757.58 W M C,

Oak 6 S 83° E 168 Lks =

" 10 N $72\frac{1}{2}^{\circ}$ E 184 Lks =

my Notes page 92 this book says
at 1529.0 spike hut in & Tar road
from hut in & chain W. 242.75 set spike for M C

1529.00

242.75

1771.75 W.

This Willow 5 N 5° E 46.5'

Birch 5 N $13^{\circ}15'$ W 30.08

Pop, 5 S $65^{\circ}15'$ W 13.00

Ash 4 N 65° E 17.23

Old Notes page 91

1090.9 hut over map.

Ties Pop 5 N 44°18' W 7.10

" 4 S 82°21' W 21.25

1090.9

+ 428.1

1519.0 = 1519.0 and not 1529. as
given in old notes

so M C is

1519.0

242.75

1761.75

1757.58

4.17 over

Sunday Mar. 15th 1964

Bob & I to Sec 7-142-30

look for my old ties at M C
bet Sec 11-18 can not locate
them we go E and find I M
at hut 1090.9 also I M Brass.

Cap mon M C 158.4 W of corner
to Sec 7-8-17-18 also the sec
corner and the M C, North bet Sec
7-8

Monday Mar 16th 1964

Cold - heavy wind do not go out
as the work would all be out in
the open - and in the wind

Tue March 17th 1964

Still cold - pick-up will not start
No. Work

Wed March 18th 1964

Bob & I do not get pickup started
until after 10 o'clock and as he
has to be in Park Rapids by 4
we stay home it is cold but a lot
warmer than yesterday should be
warmer to morrow.

Th. Mar 19th 1964

about 3" new snow last night
Bob & I to corner to sec. 7-8-17-18
142~30 run West at 700 miles log
1000 pin in log 1040 L.L. 12.7
IM sets about .3 N. of our line

1300 pm

142.4

1462.4 but on shoulder of road

229639 W

1442.4

833.99

409.77.

370.26

39.51

March - 23 - 1964

Turn spike on shoulder of Tar road
site E on our line Transit Telescope

Turn R. $26^{\circ}10'$ - (spike 1462.4 W)

To get 833.99 ft W at $26^{\circ}10'$ angle
 $26^{\circ}10'$

Sine 44098 X 929.22 = 409.77

Cosine 89752 into 833.99 = 929.22

We set a spike on S shoulder
of Tar road over canal at
929.22 ft we set a spike

Turn 929.22 BS on hub 1462.4
and run $N 0^{\circ}30'E$ we walk North
over bog, and find the US Brass
cap ~~the~~ old M.C.

We open up our line N and
at 819.72 N we locate the US
brass Cap Mon. under a fallen
tree continue our line North
and find the US IMMC brass
Cap Mon under about 2 ft of

Snow - drive into Walker for
 dinner at 1-30 eat at Bill's \$2.00
 drive back to sec 7-142-30
 have to cut some trees on line
 Tower US I M 819.72 which
 is down level with ground
 site on flag at US I M M C 1166.22
 Non seawall Leech Lake I M
 Top level with ground.

Snowing hard mixed with
 rain can not see flag at I M
 666.6 N this iron about 14 inches
 above bag and Leons way West
 out of line

As we can not see to set
~~straighten~~ this I M or to set
 a point near Tar road we
 pack things to pickup and
 drive home (wet) snowing
 hard.

March 24th 1944

Windy and cold

Bob & I drive to the E line of
Lot 4 being the N & S $\frac{1}{4}$ section
T-142-30

Over US Brass capped mon
S $\frac{1}{4}$ cor site N on flag held
at US Brass Capped Mon M.C.
on Leech Lake We straighten
up the brass cap mon set for
Old M.C.

from S $\frac{1}{4}$ on N & S $\frac{1}{4}$ chain
South $0^{\circ}30'$ West at 722.3
set spike hub + 80 over tax
road and drive a 2X 30" pipe
for wit. M.C. on Agency bay
17.42 ft N of where re-survey
notes say this M.C. was set in 1920

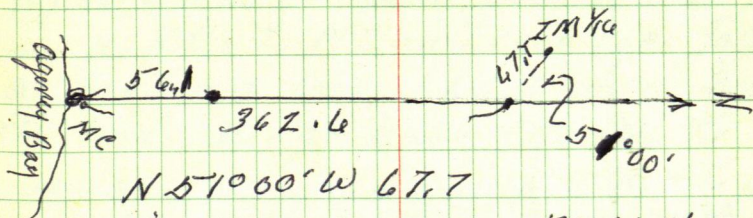
We go West to IMM M.C. US
brass cap mon. SW cor said Lot 4

Over IMM M.C. run $N 0^{\circ}45' E$
but corner of cabin. we walk
N and find US I.M. $\frac{1}{4}$ cor
we try and run a picket line N.
but do not know where line
hits cabin on N end. We can
not find any of the I.M.s on this

line N to Leech Lake Windy & Cold
go back to MC on Agency bay
SW cor of said Lat 4-

Tower IM run N at 56.1 set spike
hub at 369.6 set hub

Tower 369.6 the US brass cap mon
1/4 cor bears N 51°00' W 67.70 ft



$$\sin 77715 \times 67.7 = 52.61 \text{ W}$$

$$\cos 62932 \times 67.7 = 42.60 \text{ N}$$

$$362.6$$

$$42.6$$

$$405.2$$

$$12983711 \text{ W for each ft N} = 7.28'$$

@ 405.2 N IM sets west 52.61

hub 56.1 N goes W 7.28 to line

" 362.6 N " W 47.08 "

" 405.2 N " W 52.61 to IM.

drive into Walker talk to Leonard
Peterson drive on to A Keley and do
the above figuring

Time Sheet

Working for Leonard Peterson Reg. of Deeds - Lot 4 Sec 7-14230

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

347

March

Sum

Sum

1964

Harold Curo

R. Car.

Robert Curo

1/2

1/2

1/2

1/2

1

= 4 days

1/2

1/2

1/2

1/2

1

= 4 days

Leonard Peterson Lot 4 Sec 7-14230, 35

March 26 - 1964

Bob - I to Lot 4 - Sec 7 - 142 - 30
correct hub 56.1 West 7.28

Tower 7.28 on true W $\frac{1}{4}$ line site N
to flag at S $\frac{1}{4}$ $\frac{1}{16}$ E M. and run North
 $0^{\circ}45'E$ over bog through timber & brush
over bog to I M.

We can not find any I M. We chained
N from S W $\frac{1}{16}$ I M and find the dist. given
in US Notes to M C on Leech Lake takes
us to edge of bog. 138 ft short along
this line. We go back to road T

over our re-established I M on $\frac{1}{4}$
~~read~~ site $N0^{\circ}30'E$ on $\frac{1}{4}$ I M M C
on W $\frac{1}{4}$ line bears $N70^{\circ}50'E$ 1174 ft
Talk to Leonard Peterson he says
to run the S $\frac{1}{16}$ line from S $\frac{1}{16}$ on N
& S $\frac{1}{4}$ West to see if this iron is
where the surveyors set it in their
re-survey - of 1920

Tower S $\frac{1}{16}$ on N & S $\frac{1}{4}$ site $N0^{\circ}30'E$ + run
West Flag at S W $\frac{1}{16}$ has reads $W0^{\circ}02'N$
1143 ft. 78 short

Fig.

US Notes say from C S $\frac{1}{4}$ run West 1143.78 ft to SW $\frac{1}{16}$ Cor from C S $\frac{1}{4}$ the \angle runs $50^{\circ}30'W$ 819.72 as this dist put this point out in Agency Bay.

We set an IM 722.3

80

802.3 IM MC

$50^{\circ}30'W$ 802.3

Sine 00873 \times 802.3 = 7.00 W

Cosine 99996 \times 802.3 = 802.27 S

from C S $\frac{1}{4}$ run West 1143.78 to SW $\frac{1}{16}$

from SW $\frac{1}{16}$ run $S 0^{\circ}45'W$ 385.44

Sine 01309 \times 385.44 = 5.05 W

Cosine 99991 \times 385.44 = 385.41 S

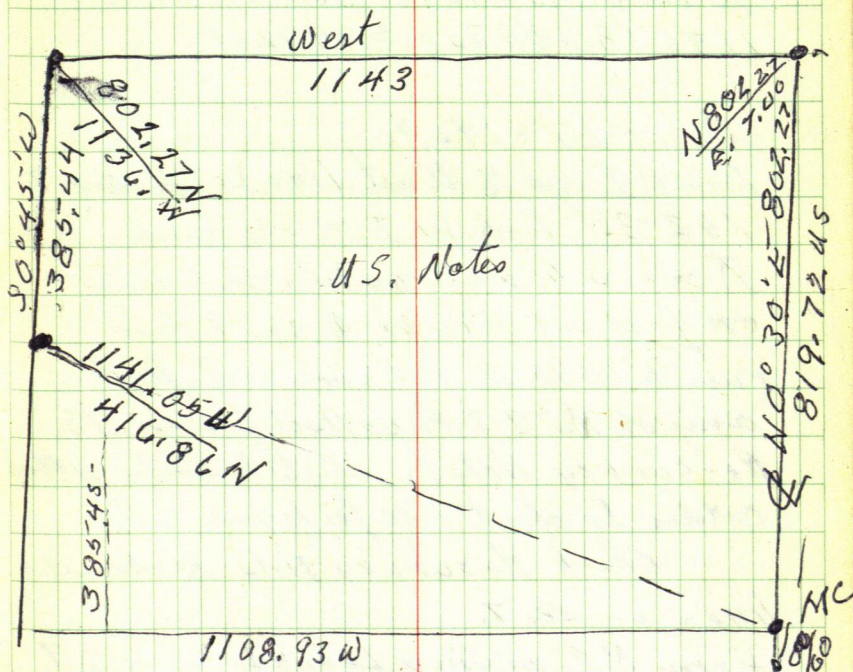
from MC on \angle run $N 70^{\circ}50'W$ 1174.00

Sine 94457 \times 1174 = 1108.93 W

Cosine 32832 \times 1174 = 385.45

MC IM on W $\frac{1}{16}$ line is

1141.05 W of MC on \angle according to US figures



the IM MC that sets on W $\frac{1}{16}$ line Now
is only 1108.93 ft W of MC on E
W 1141.05' US
W 1108.93 ft is where IM now sets
is 32.12 ft too far East.

$$32.12 \text{ ft E in } 385.44 =$$

$$\frac{385.44}{32.12} = 12.00$$

$$1062.6 \times 0.08334 = 88.56$$

$$1196.58 \times 0.08334 = 99.72$$

March 27 - 1964

Bob & I go to West line Lot 4 Sec 7
142-30 look for IM no find

Travel S $\frac{1}{4}$ on W $\frac{1}{4}$ line site West
on flag on S $\frac{1}{4}$ on $\frac{1}{4}$ sec 7 and
run N $0^{\circ}45'E$ we can not find
any of the 3 IM called for in US
Resurvey Notes. Starts to snow getting
colder. Lv about 430 for home

Check Resurvey Notes of Meander
lines in Sec 7.

from M.C. on Shore Leach Lake on $\frac{1}{4}$ 7
N $44^{\circ}30'W$ 700 chs = 462.00 ft

$$\text{Sine } 70091 \times 462.00 = 323.82 W$$

$$\text{Cosine } 71325 \times 462.00 = 329.52 N$$

$$N 41^{\circ}00'W 1000 \text{ chs} = 660 \text{ ft}$$

$$\text{Sine } 65606 \times 660 = 433.00 W$$

$$\text{Cosine } 75471 \times 660 = 498.11 N$$

$N 37^{\circ} 15' W$ 910 ch = 600.60 ft

$\sin 605.29 \times 600.60 = 363.54 W$

$\cos 796.00 \times 600.60 = 478.08 N$

from MC on $\frac{1}{4}$ Sec. ~~7~~ 7-142-30

to MC on $W \frac{1}{16}$ is 1305.71 N

and 1120.36 W

As we cannot locate the MC on $W \frac{1}{16}$ line and do have the one on the $\frac{1}{4}$

to locate the one on the $W \frac{1}{16}$ line

Then MC on N+S $\frac{1}{4}$ Sec 7 run
 $N 40^{\circ} 38' W$ 1720.55 ft should be
 where the MC on $W \frac{1}{16}$ line should
 be or awful close so we can find
 the I.M.

June 10 - 1964

Bob & I go to sec. 7-142-30
to see if we can find the MC
on W 1/4 line of said sec 7

U.S. Notes say

from SW 1/4 Run $N 0^{\circ} 45' E$ on
true W 1/4 line @

Chavis

- 585 = ft Lv ramp enter narrow strip land
775 = ft road NE-SW
1085 = ft enter marsh NE-SW
1610 = ft intersect old meadow line
 $N 39^{\circ} 48' W$ 1983 ch from AP 3
set 1x36" IM MC No BT
1813 = ft set IM for CW 1/4
Oak 10 $N 77^{\circ} \frac{1}{4} E$ 355 lks
No other trees
2300 ft Lv marsh enter strip high
land SE NW
2440 = 1610.4 ft road E & W
2510 = 1656.6 ft W shore Leech Lake IM MC
Oak 10 $N 85^{\circ} W$ 43 lks = 28.38
Oak 8 $S 16^{\circ} E$ 70 lks = 46.20 ft

70 43
4
20 2
120 2
2 3

161

$$\begin{array}{r}
 5.44 \\
 1634 \overline{) 129.007} \\
 \underline{10248} \\
 2652 \\
 \underline{2652} \\
 0
 \end{array}$$

$$\begin{array}{r}
 35 \\
 380 \\
 760 - 70
 \end{array}$$

$$\begin{array}{r}
 41656 \\
 \underline{7} \\
 11592
 \end{array}$$

$$\begin{array}{r}
 .078 \\
 1062 \\
 \underline{28} \\
 8496 \\
 \underline{7434} \\
 8286
 \end{array}$$

$$\begin{array}{r}
 64 \\
 1196 \\
 \underline{78} \\
 9568 \\
 \underline{8372} \\
 93288
 \end{array}$$

$$\begin{array}{r}
 31332 \\
 94457 \\
 \underline{1174} \\
 377828 \\
 \underline{661199} \\
 294457 \\
 \underline{94457} \\
 110892
 \end{array}$$

$$\begin{array}{l}
 N 51^{\circ} W \quad 42.60 \\
 \text{Sine } 6239 \quad 62932 \times 677 = 4260 \\
 \text{Cosine } .77715 \times 677 = 47.92
 \end{array}$$

$$\begin{array}{r}
 349.6 \\
 \underline{42.6} \\
 412.2 \quad 47.92 = 0.11625 \\
 56.1 \times 0.11625 = 0.65
 \end{array}$$

From IM chain SEwy 100 ft on
 all

Then IM went S of road on N 43 &
 side N 0°30'E IM on W 1/2 line on
 shore bears N 70°50'W - 450 + 300
 $750 + 300 = 1050 + 124 = 1174$ ft
 IM to IM

160
 $\sin 2756 \times 46.2 =$
 $\cos 96126 \times 46.2 =$

$ \begin{array}{r} 41.3.3 \\ 32756 \\ \hline 462 \\ 5512 \\ \hline 16536 \\ 15024 \\ \hline 14732 \\ \hline 14732 \end{array} $	$ \begin{array}{r} 296126 \\ \hline 462 \\ 192252 \\ \hline 576756 \\ 384504 \\ \hline 444102 \\ \hline 444102 \end{array} $
--	--

$ \begin{array}{r} 0872 \\ \hline 284 \\ 3488 \\ \hline 6976 \\ 1744 \\ \hline 242 \end{array} $	$ \begin{array}{r} 8 \\ 1021 \\ \hline 1021 \end{array} $
--	--

$$\begin{array}{r} 60 \\ 3.9 \\ \hline 56.1 \end{array} \quad \begin{array}{r} 200.00 \\ 2.83 \\ \hline 197.15 \end{array}$$

129.8

$$\begin{array}{r} 666.6 \\ 90 \\ \hline 626. \end{array}$$

179.7

$$\begin{array}{r} 51.1 \\ 40 \\ \hline 91.1 \end{array}$$

54°19'

$$\begin{array}{r} 140.20 \\ - 7. \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ 2.3 \\ \hline 67.7 \end{array}$$

$$\begin{array}{r} 50 \\ 5.05 \\ \hline 100.05 \end{array}$$

$$\begin{array}{r} 133.2 \\ + 32.1 \\ \hline 165.3 \end{array}$$

$$\begin{array}{r} 217.20 \\ 00.43 \\ \hline 516.0 \end{array}$$

$$\begin{array}{r} 165.3 \\ 55.4 \\ \hline 220.7 \end{array}$$

$$\begin{array}{r} 188.0 \\ 7.39 \\ \hline 195.39 \end{array}$$

$$\begin{array}{r} 2924 \\ 130. \\ \hline 1624 \end{array}$$

$$\begin{array}{r} 220.7 \\ 40 \\ \hline 260.7 \end{array}$$

$$\begin{array}{r} 2440 \\ 14640 \\ 14640 \\ \hline 16104 \end{array}$$

0.36°
S 17° E 0104727 = 18.96
Casing

$$\begin{array}{r} 110.04 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 819.92 \\ 802.3 \\ \hline 17.62 \end{array}$$

$$\begin{array}{r} 730.3 \\ - 8 \\ \hline \end{array}$$

hnt + 80 IM

Four IM swan lot

$$\begin{array}{r} 722.3 \\ 80 \\ \hline \end{array}$$

4 Sec 7-142 301 am

N. @ 56.1 hnt

@ 369.6 "

$$\begin{array}{r} 802.3 \end{array}$$

Four hnt 369.6 S. I.

S. IM sets N 51° 00' W

67.70

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

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

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