

7983

7530-00-286-6207

FEDERAL SUPPLY SERVICE

(GPO)

1 large field = .625 mm } 17x ocular
 1 small field = .125 mm } 1.7x objective

Cde vi - Beagle - 64
 68497. 64472

Andie: Where can he start the operations to extend his visa?

Al Newton & wife → to get Staphylinids.
 → Field museum

Al Knowles - LSU - Stink Bugs

Scott Miller: 357-2107

Physical Therapy - Thru. Oct 23
 Mrs. O'Swayer 2:00PM

Plane to San Pedro Sula

(Museum to on TACA

+ SASA - TAM

How? get small plane to

Tela - or rent a car

to → go to Juncetilla

Botanical gardens

Entomologist - U. of N.M.

working on agricultural dept

get name

Kathy Schmidt

518 - 325 7265

3000
 2000
 1000

GUATEMALA

Get elevation of Hotel Posada

June 19. Lv. Guatemala City 6:55 AM -

1) altens - 1510 m. (Unwindy valley)

2) 83 $\frac{1}{2}$ Km. 3500 meters alt.
2nd Stop - Cactus, Acacia -
great pasture -

Termites: Amitermes (?) under
a stone

antrophilous - in soil fields

+ under a HARD-WOOD stump

Beetles: Under bark of cactus and
under eucalyptus

Stop 3 - Stone

Helicoverma & other moths

loop m. square MBB

Stop 4 - Pines - ~~Ant~~ mercurialis
amipennis & acates, etc.

Altitude -

for smoking

Stop 5 - 1,405 M - Liquidambar

pine assoc. 1 Termit from

down rotten log - in large jar

Single beetle in large bottle
Barber's sol'n; Stop 4, under bark?

Thu June 21

Stop 1. N. S. S. alt. 950 m

Stop 2
Col. 1 - me
Col. 2 - student
Col. 3 - me

Stop 3 - near ~~to~~ Telencan 160 m elev
stung ~~to~~ in pepper field
mezc.

Rio Cahabon site alt. 2400 m
Many colonies - in bags

Rio Cahabon = Int Junction between Rio Oxec and
Rio Cahabon - Road.

Alejandro May

Imags

Im 2 ♀ (N)

K ♀

1st Form Reproductive

Neotenic

Stop3 -
sku

Alvarado for
preparation

El Bosque
Tall Bush
Forest beyond bridge

on right

1 1/2 hrs. north of

Catmanra

Get Empenadas

Biology of Termites
vol. 1 + 2

Edited by Krishna
and Weesner
(Lechleitner)

A

SERRITERMITIDAE

18 feet

to for
had

32

from

on 2

1 1/2

0

2.1

$1.00 \text{ US} = 187 \text{ pesos}$

Mexico

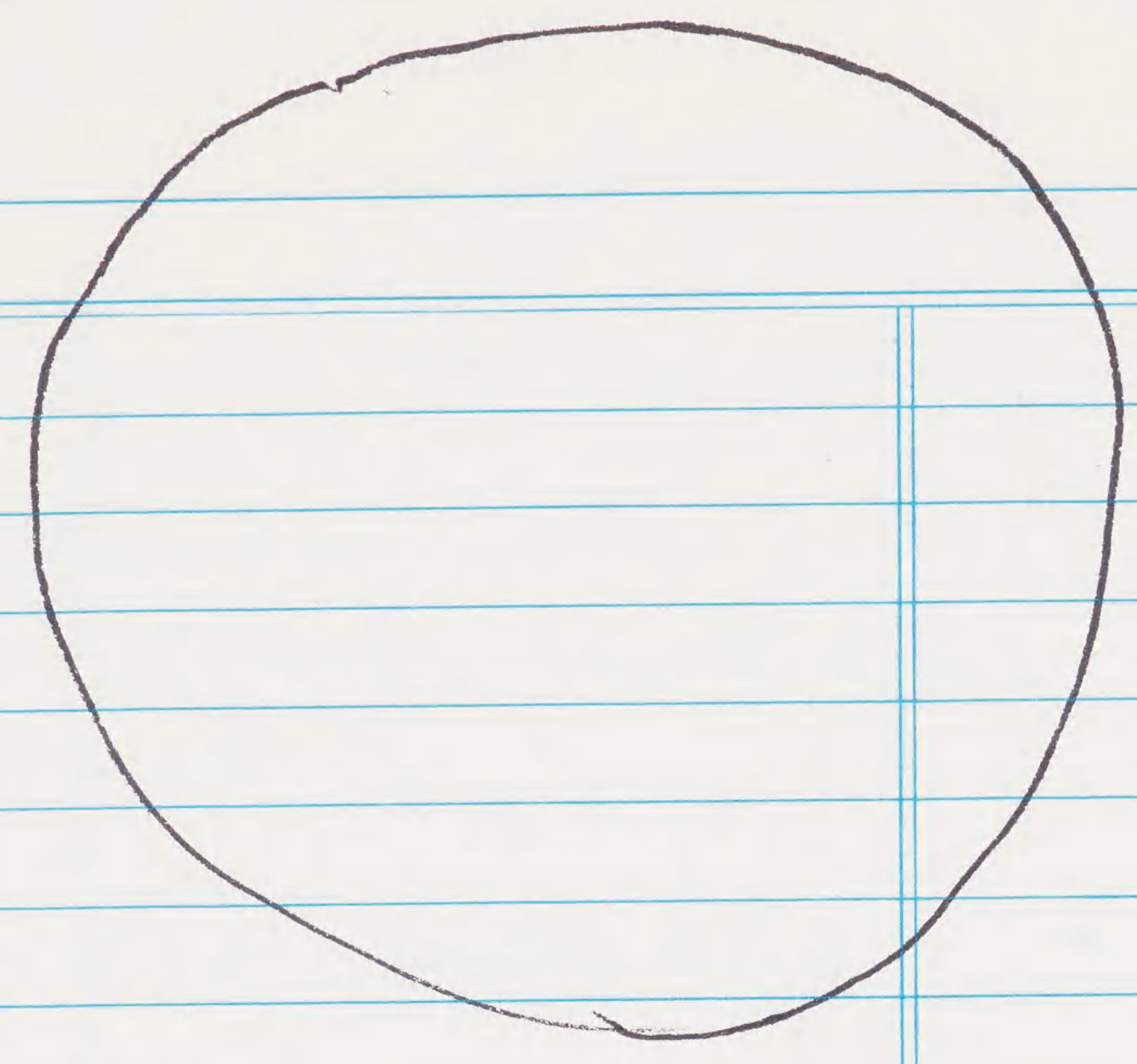
1600 pesos - Airport Tax

39.40 - Plane fare - dollars

2030 pesos - Food, Trip to Barran
de Navidad

$\Sigma = 3630 \text{ pesos} = 19.41$

12

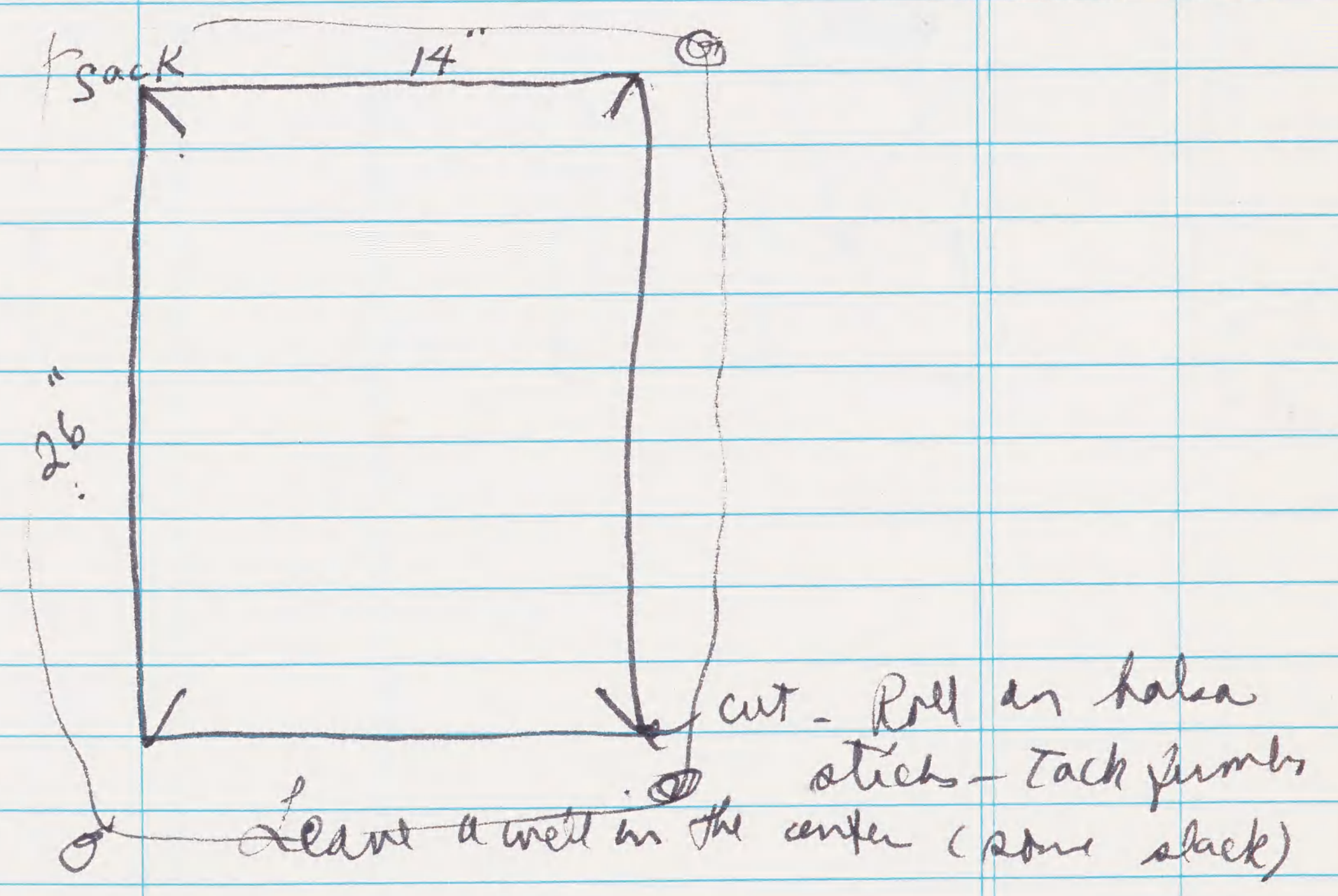
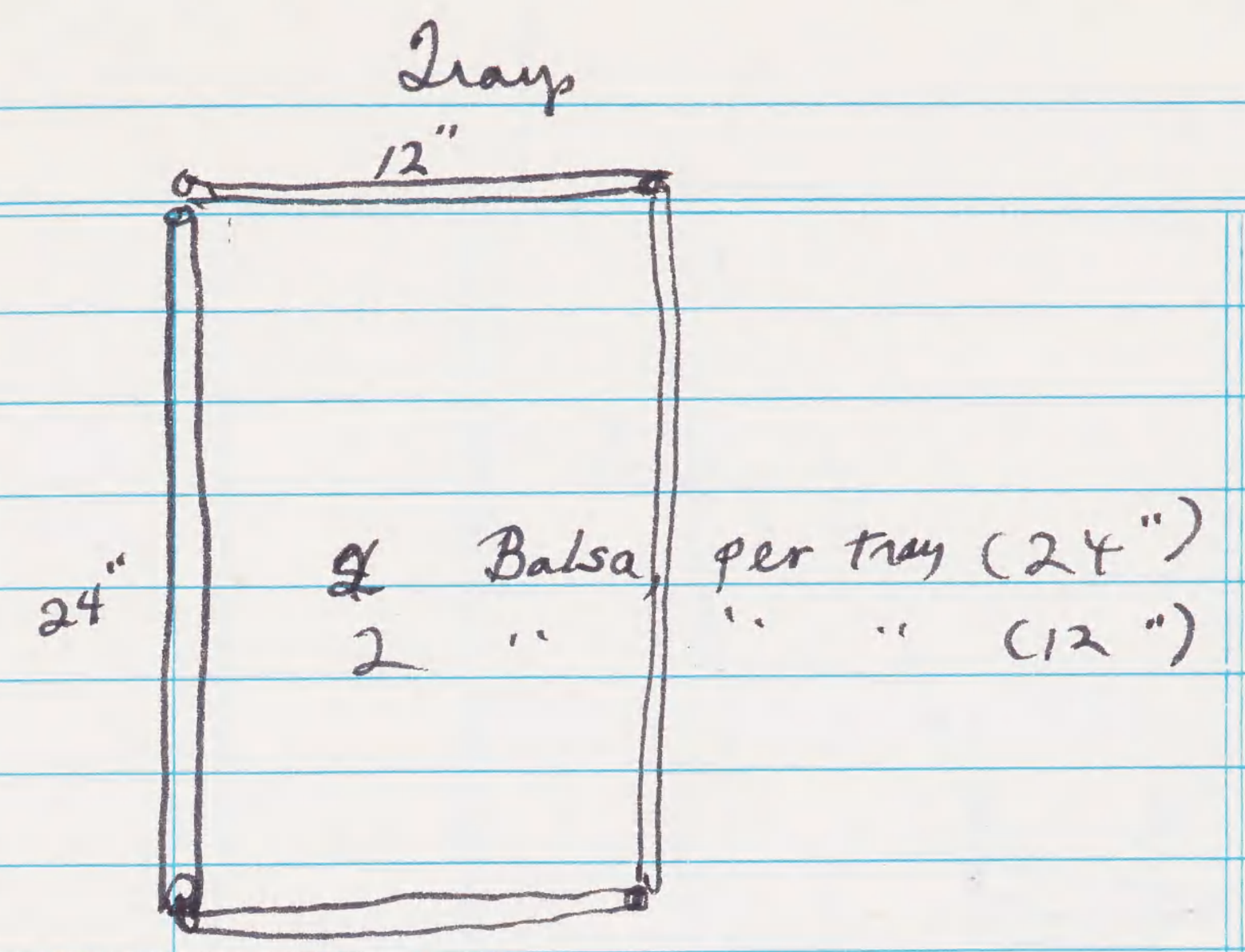


3 m

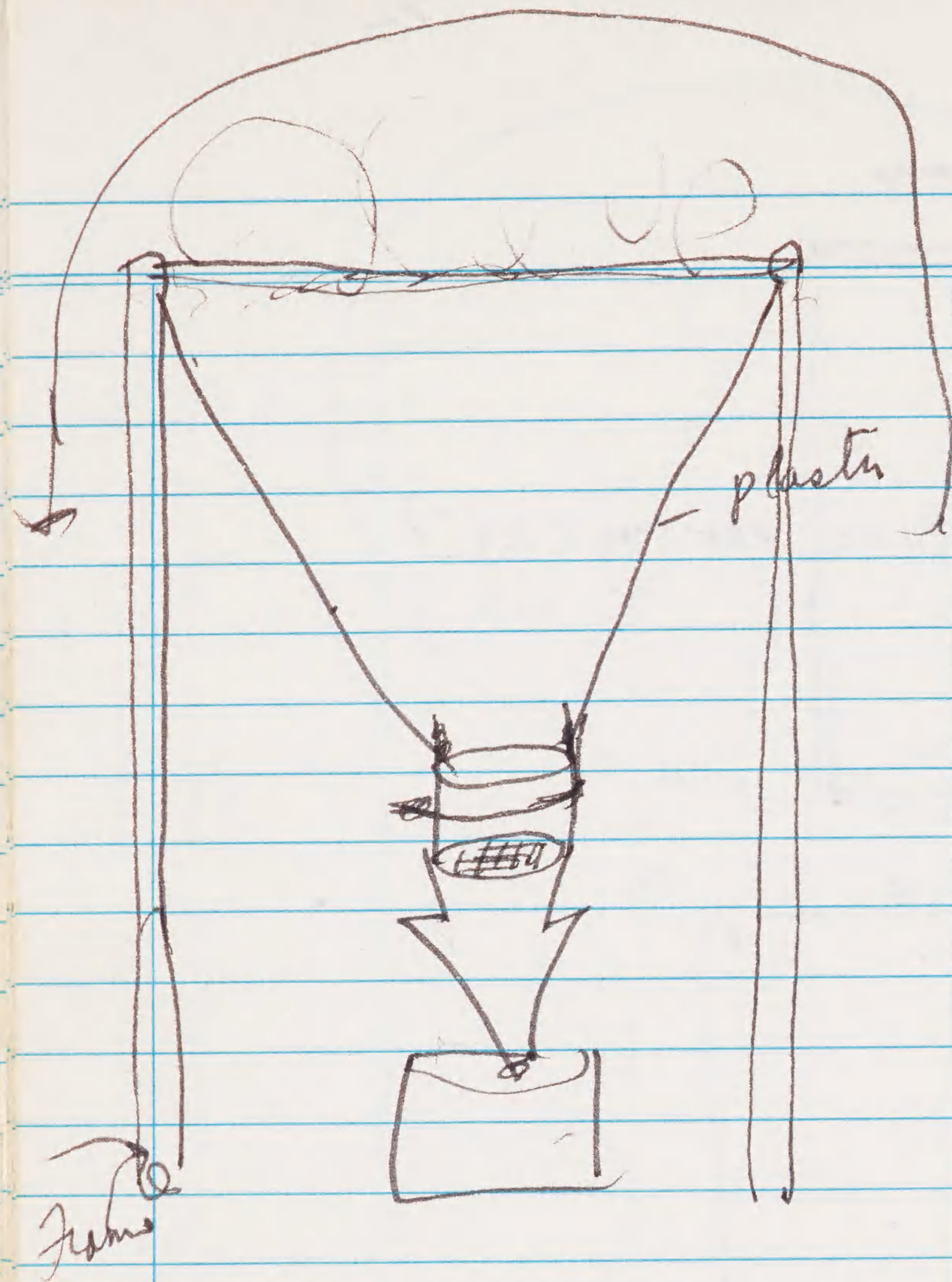
12



3 m'



Covers 30" x 18" - sew rocks in the corners - use screen, mosquito netting, curtain material.



funds 29462.4
 Start - 26778.0
 2684.4 mi. mileage

Gas, cash & ymb.	Food, Cash	Tolls
10.46	1.65	.75
5.00	12.00	
10.63		
9.23		
10.30		

Fall: .25
 .25
 .10 / In va. going down
 night - Richmond
 Visa 28.55

Florida Trip #3
 Dr. D.C. @ 26778

Gas - Va. Foodmart 26968.0 - 8.868 gal
 Gas @ Saddle Creek - charged to Mastercard
 yogurt + apples - n. Calorie - 1.65

Gas - So. Carolina @ 27222.5 mi.
 → 8.4 gal. 10.46 pd. cash

Gas - Brunswick, Ga. - @ 27432.1
 9.86 gal → 11.52

Dec. 7 Lodging - 28⁰⁰ (?) - charged, Mastercard
 Food - 8.95 + Tax + 1.00 Tip - Receipt
 kept

Telephone call: 2.00 (on bill, receipt obtained)

Gas - Sebastian Lake, Fla. @ 27698.65
 12 gal. 5⁰⁰ worth (3.9 gal.)
 (1.28 / gal !!!)

Gas south of Ft. Pierce @ 27742.55
 9.20 gal. @ \$10.63

Bernd Gables - 27945.5
 \$9.23 7.765 gal.

Indian River 28211.3
 9.25 gal. \$10.50

Greenville 28408.15

10 gal. \$12.52

Live Oak Fla - 28650.4
10.7 gal 13.22

Savannah, Ga. 28863.6
9.75 gal. 11.30

Jay's Lake, N.C. 7.322 gal
1.23/gal. \$9.00
29136.5

Strong Ridge, Va.

29300.6
\$11.44 9.31 gal \$3.82

Toll 155

105

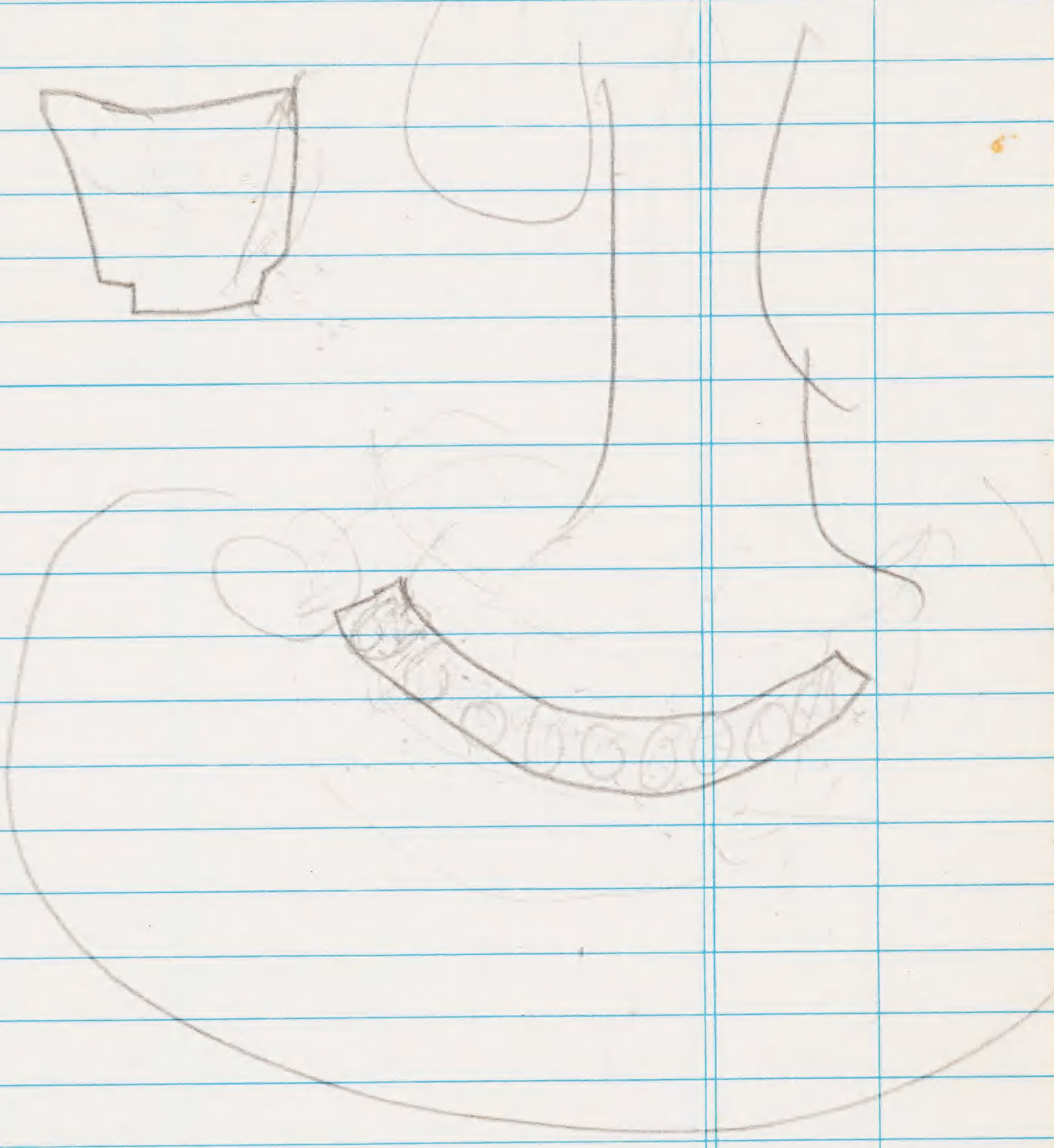
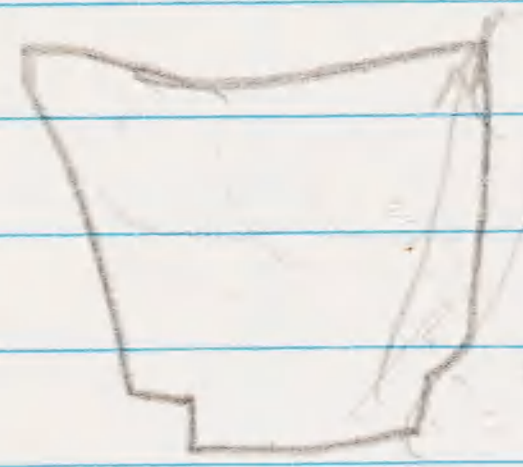
25

25

Breakfast
Pet
milk

29462.4

Hydrophane colony - from gullies on
pole in front of Hotel ^{Barrett}
October



PER-2
another *Heterotermes* colony - from galleries on
poles in front of Hotel ^{Turista} ~~October~~

Peru Termites - 1985

Make di alio

Per-1 Oct. 22, 1985 - Partly dead stump on
grounds of Hotel Turista - Quercus oval-
donada. Ants & termites living in same
stump. Prob. *Heterotermes*

PER-3 - Oct. 22 - grounds of Explorer Hotel,
Tambopata - from galleries of tree nest

PER-4 - Oct. 22 - from galleries below large,
damaged but repaired carton nest on
tree, grounds, Explorer Hotel, Tambopata

PER-4A - Oct. 22 - Carton nest on tree, grounds
of Explorer Hotel, MSC

PER-5 - Oct. 23 - Rounded nest on leaves
on side of large tree - 1st trail -
Alates present
(1 adventitious black nasute of fungus)

PER-6 - 23 Oct. Long carton nest on
ground up to 2 feet - many
shorter than nest

PER-7 - Heavy earth mound at base
of buttressed tree - leaf
forest - MSC

PER-8 - Nestlings sp. attached to wood
and for walls of most around garden -
Large carton nest in tree nearby Sun. 8
MSC

PER-18

Make di
alio

PER-9

PER-10 Oct. 27, 1985 Tree nest near garden site, next to walk - Nest harvested

20% for *Leptotyphlops* Im, 2, ♀♀

PER-11 - Carton nest collected for processing - T. Ewers - Oct. 30 -

Near garden site, Tambopata 50% 27, many ♀♀, larvae, ♂ Oct. 30, 1985

PER-12 - Carton nest & definitely eaten shell trail near E.J. In - MSC -

Nest separated harvested

Prob. *M. surinamensis* 50% 27, ♀♀

PER-13 - *Aspilota*? sp. - from clay galle

between roots of terminal tree - T. Ewers

Im, N, h, ♀? up main trail near lodge - Expl. In

1 Nov. 1985

PER-14 - *Heterostigma* sp. - from dead wood - small v. section of branch - up

main trail near PER-13 1 Nov

PER-15 *Microcerotoma* (?) sp. - ~~from~~ typical nest on tree beside main

trail, near lodge @ Tambopata

1 Nov 1985 MSC - Queen

Larvae

PER-16 - *Heterostigma* - on small stick

or ground - 1 Nov. main trail close to lodge - MSC -

PER-17 - Small nests of *Termitophila*

beetle - in ~~some~~ rotting branch beside main trail near lodge - Tambopata -

1 Nov. MSC

PER-18 *Diaplatys* showing tandem behavior

plus two alib. from work table

morning (6:30) of Nov. 2 - Tambopata

Nov. 2 - MSC

PER-19 - *Heterostigma* sp. (?) from dead

branch beside main trail over lodge

@ Tambopata

PER-20 - *Haemaphysalis* sp. from dead ^{branch} ~~wood~~

~~wood~~ beside main trail near lodge

@ Tambopata - 1

PER-21 - Nasutitermes sp. from dead
palm stump beside main trail
near lodge, Tambopata.

PER-22 - soldier's termite - small,
dead stump near main trail near
lodge, Tambopata.

PER-23 Armitermes sp. - from mud nest in
base of decaying palm stump with
small ant: ♀ termite show no hostile
response, but 1 ♀ termite bit into
an ant's head - up main trail
from lodge, Tambopata.
Nest thickly intergrown with live roots.
Source?

PER-24 Same stump as #23, gutter
over - Im, no 2/24

PER-25 - Physogastric green, many NN -
hard nest like PER-15 - Armitermes
presence, live colony present for
stump

PER-26 Glyptotermes? Alates, no 21 seen;
in rotten damp wood beside main
trail ca. .5 km from lodge
River south to Peter

7
PER-27 - small nasute from rotten
log beside main trail - ca. .4 km.
from lodge - Nov. 2

PER-28 Heavy earthen nest in ^{base of} tree
TINK nasute - up trail .5 km.
from lodge
Nov. 2

Nov. 3 - Sunday - ~~Monday~~ - RAIN!!

PER-29 - ? Rest of PER-26? 21, Im, NN
Large sample to be taken to
Peter -

PER-30 Notitermes (?) 4/ Im, 21, ♀
main trail toward lake, Tambopata
on ground

PER-31 - Mound nest in dry forest
@ Tambopata - Armitermes sp. -
Infiltrated with roots; Brian photographs

PER-32 Snappers - dead stump by
main trail in low forest, Tambopata

PER-33 Acarhinotermes? N, 21, ♀ - from
rotten stump beside main trail
Tambopata, live sample kept

PER 34a Lobisterna labialis - typical
nest on tree, low forest

PER 34b - Armitermes sp - sequens in
34a? ~~or hangerensis same job~~

PER-35 - Tiny Kalstererhi ^{some} kept
alive for Peter, some preserved
fairly sound during war

PER-36 TINY nasutus - under bark
of down tree - main trail

PER-37 - Constrictotermes causipron
main trail - old into colony

at
Flying -
erred -
ed from
minded
near

PER 34a ~~of~~
nest on

PER 34b - Am
34a? at

PER-35 - tiny
alive for
family soon

PER-36 TINY
of down tree

PER-37 - Camp

Prehens & Preserved

5a

5b 7

9

10

11

12/13a

13b 13c

14a

14b

GT 86-1

↓

Jan. Jan Timcheh Airport at
down rotten tree -

Monday - Timcheh airport
Metallic Blue Chrysomelid - Flying -
Cpt. Sandhu
Dried out - None preserved -

GT 86-2 - Mon. - Scraped from
telephone pole at Timcheh
damaging pole

GT 86-3 - Nest on tree near
Timcheh airport - whole
nest collected.

Camp Jaguar

GT 86-4 - Gnoppers from partly
cut burnt stump beside plowed
field, road near compound
(Soldiers all gone by time of picking)

GT 86-5a - Nest from big burnt
tree beside trail
in bar - Bag 3, blue paper band
DW

GT 86-6 - Am from
dead stump beside trail

7 - Camp Jaquar - D.V.

GT86-7 - Rhinotermitid from
leaf branch on limb tree
Sapra forest: 2nd survey on
the 1st part another female
Prob. Nesocryptus

GT86-8 - Document with antennae call
partly a dead stump -
Phenacoccus?

GT86-9 - D. Walker - Cryptine
Solder starts release glue; fought
ants, released first after contact - Rhyssalus

GT86-10 Small antenna nest in
tree trunk - D.V. Microgaster

GT86-11 - dead branch by lake side
Rhinotermitid - M.V.

GT86-12 - yellow leaflet nest with
1st rosette seen - D.V. Call

GT86-13 a - Cryptine sp - part antenna
in a bag for 1st

-13 b - Sulobitomya sp (?) - probably
found with antenna nest heavily

14 - antenna & antenna -
13c - Cryptine sp - same nest
also from antenna nest

CR-1 Oct. 25, 1985 - ^{11:45 AM}
Floppan Termit sample: 1 colony or
several?

5/24 from large nest opposite Lodge Bar
mixed C termites from Plot 2, Flood
Plain - Tree # 253 - colony 1

1) Hostile & aggressive behavior seen
between the two samples
∴ The Flood Plain Termites can show
aggressive response

2) 253 + 242 = No Fighting
Group + 258 = " "
+ Colony 2 - No Fighting

∴ All 3 samples from the Floppan
Plot 2 came from the same
large nest on tree #

GT86-5^a Nante - as original
listings

GT86-5-b - ~~M. ...~~

Sat. Feb 1 (or 2?)

Sp. Site, Rosequillo coast
colony

G86-14 a Carton nest
on tree - brown-headed
nantes - prob. attacking
building in complex
Imm., 2, ♀, NN

G86-14 b - Second carton
nest - on tree - spn
site

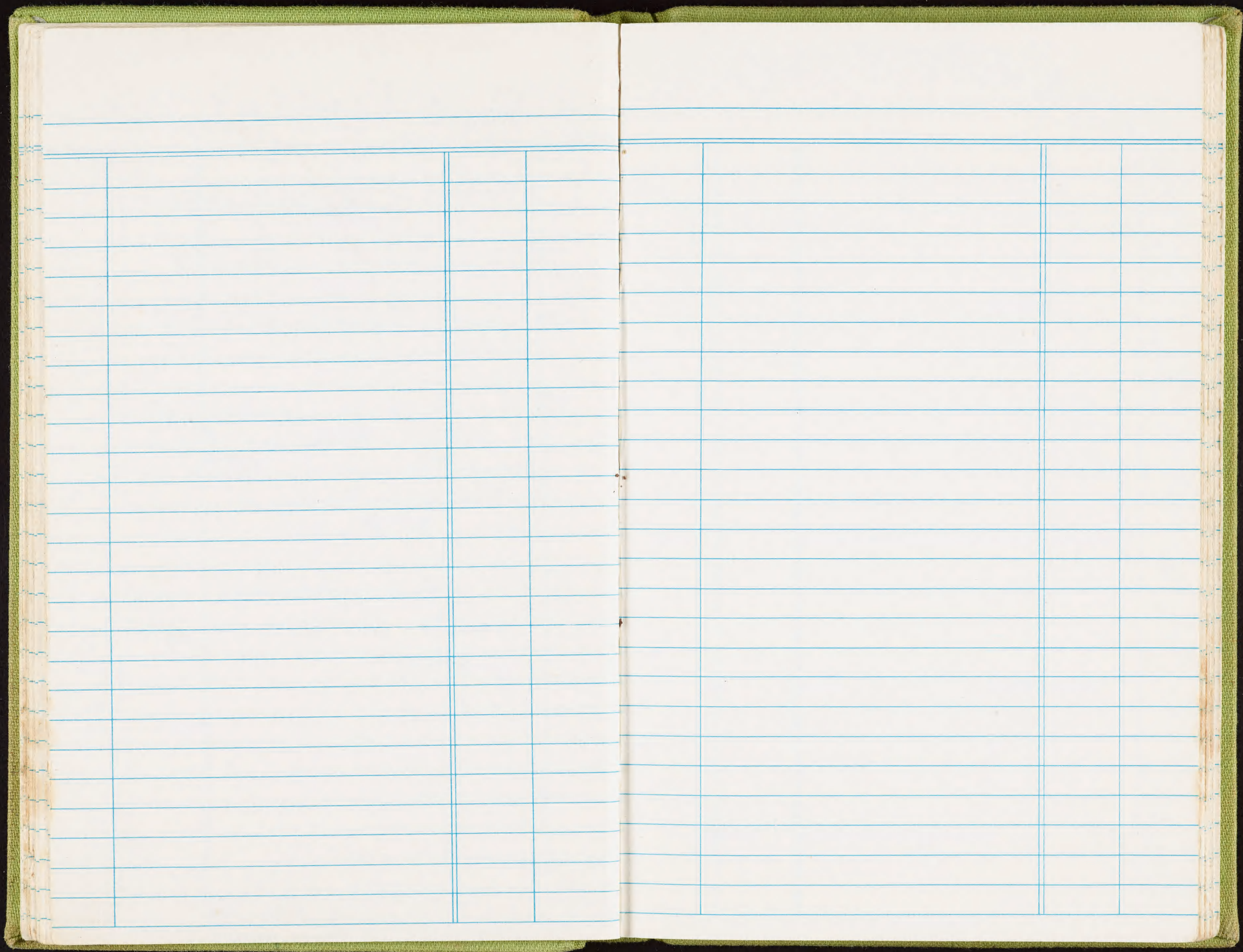
13b

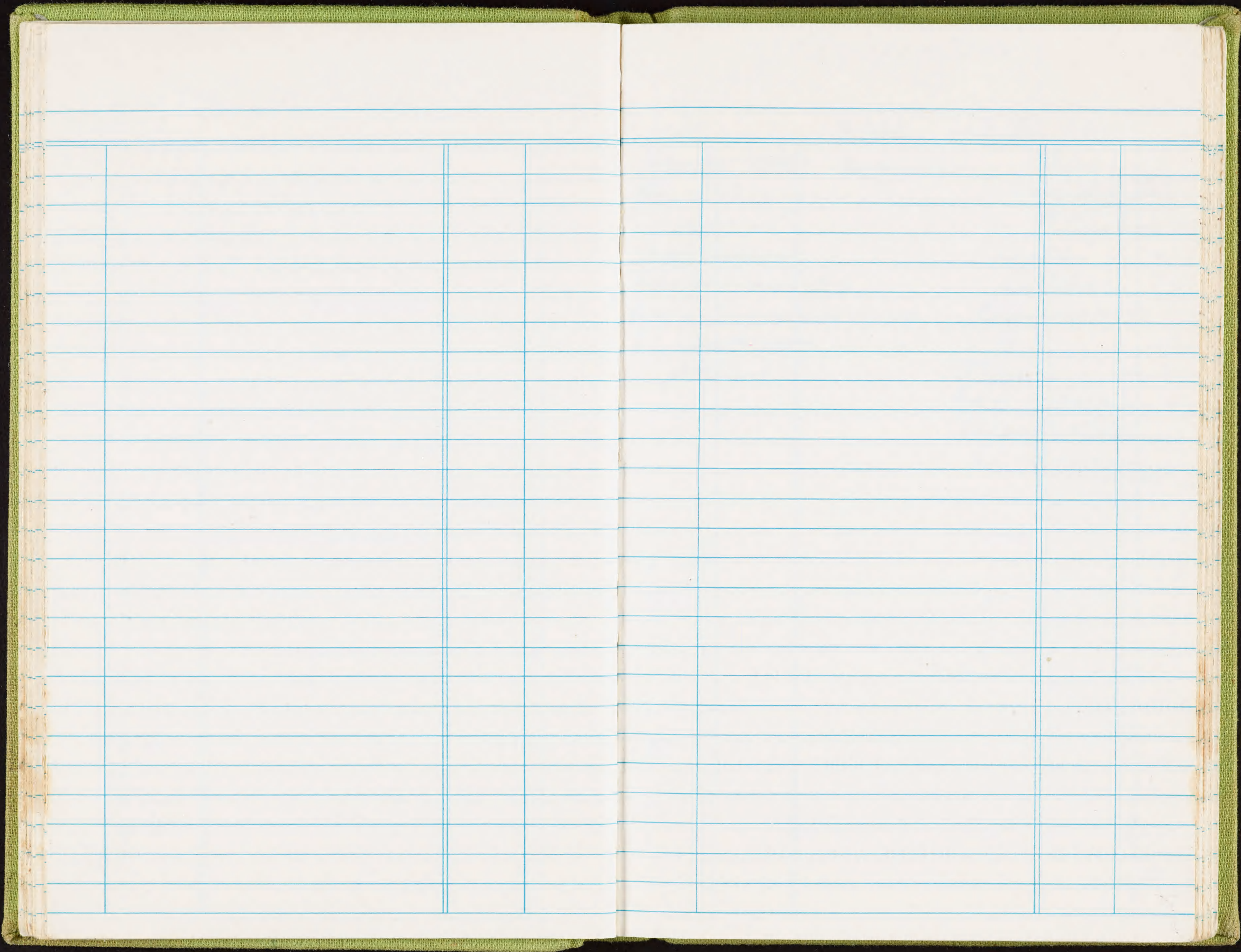
14

built with carton nest heavily
infested with ants -

13c

Carton nest of same nest
also a few small ants





Guyana Brain
1986

To Do

To Make

To Buy

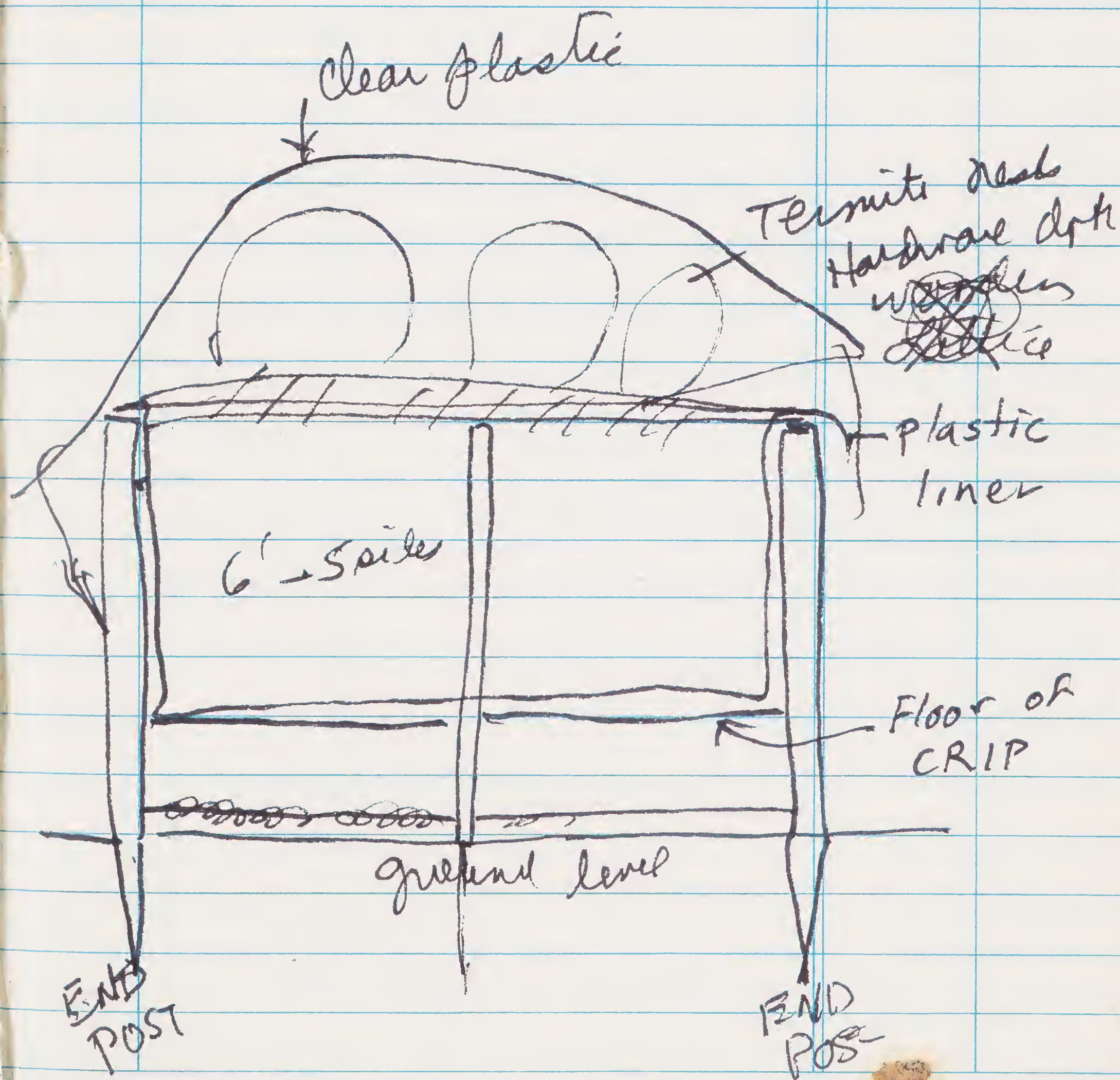
- | To Do | To Make | To Buy |
|-----------------------------------|-----------------|-----------------------------|
| Renew visa | Numbered labels | Film |
| Back collecting equipment | | magnifying glass |
| Start inventory | | " Repellents |
| Get long bladed sticks | | Matches |
| Get poles / set up repairs | | Batteries |
| Flashlight | | Siggag carrier |
| Cell case | | Vitamins |
| | | Face cream |
| | | Plastic bags |
| | | Fels Napha Soap |

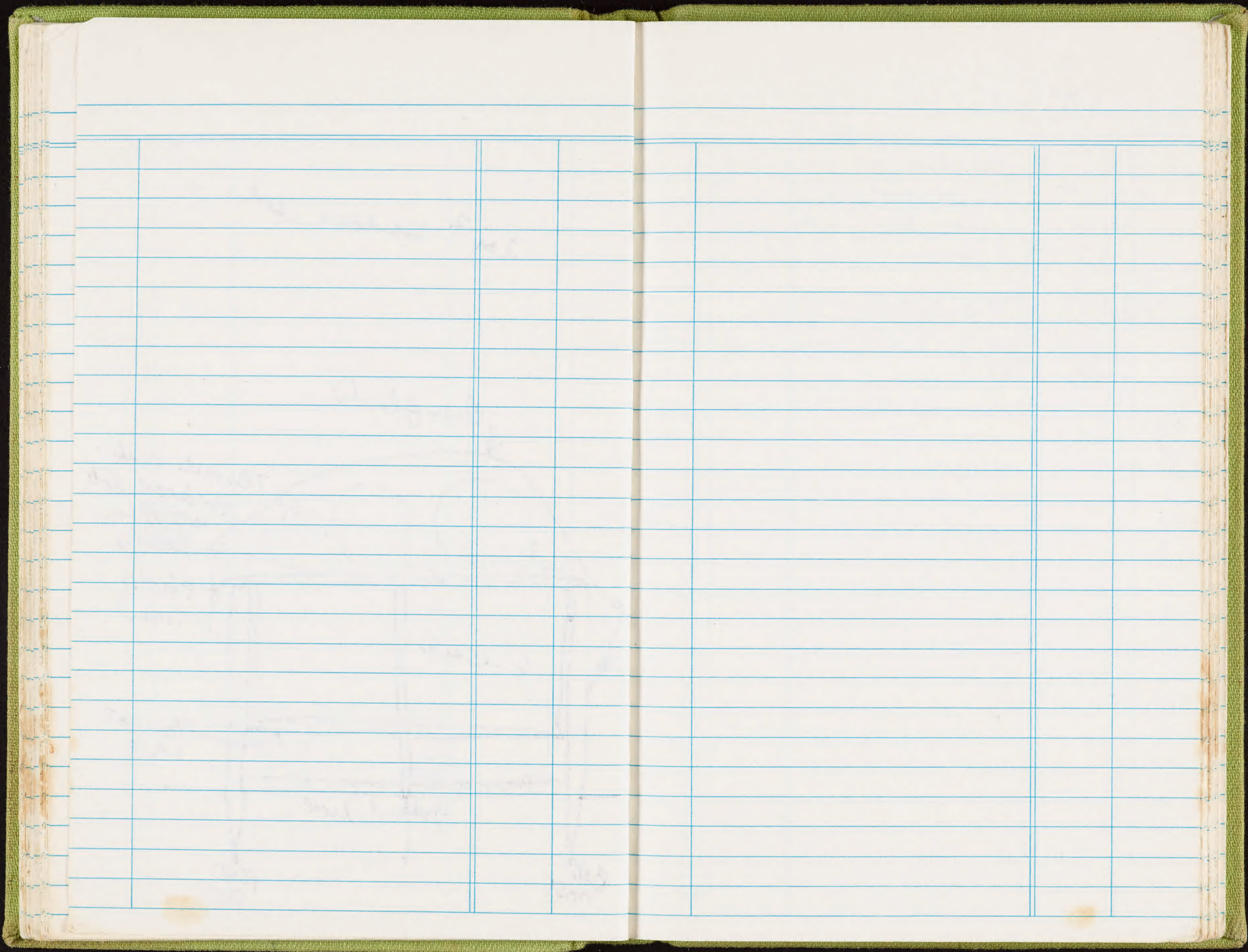
Blue Liner



Side can be lowered

2 m² Hardware cloth





GUANA

July 6, 1986

1) GUA 86-1: meisiterme sp. Tm, 2, N -
plus ants living in same small dead
branch - near top of hill, hotel
grounds, Guana - coll. N.S.C.

2) GUA 86-2 - subuliterme (?) sp. -
in dead branch near summit @ hotel
site - TINY!

Seed Request

SEEDS FOR THE WORLD

PAK CHOY Page 42

#5618 1/2 oz. \$3.50 - 2 OUNCES

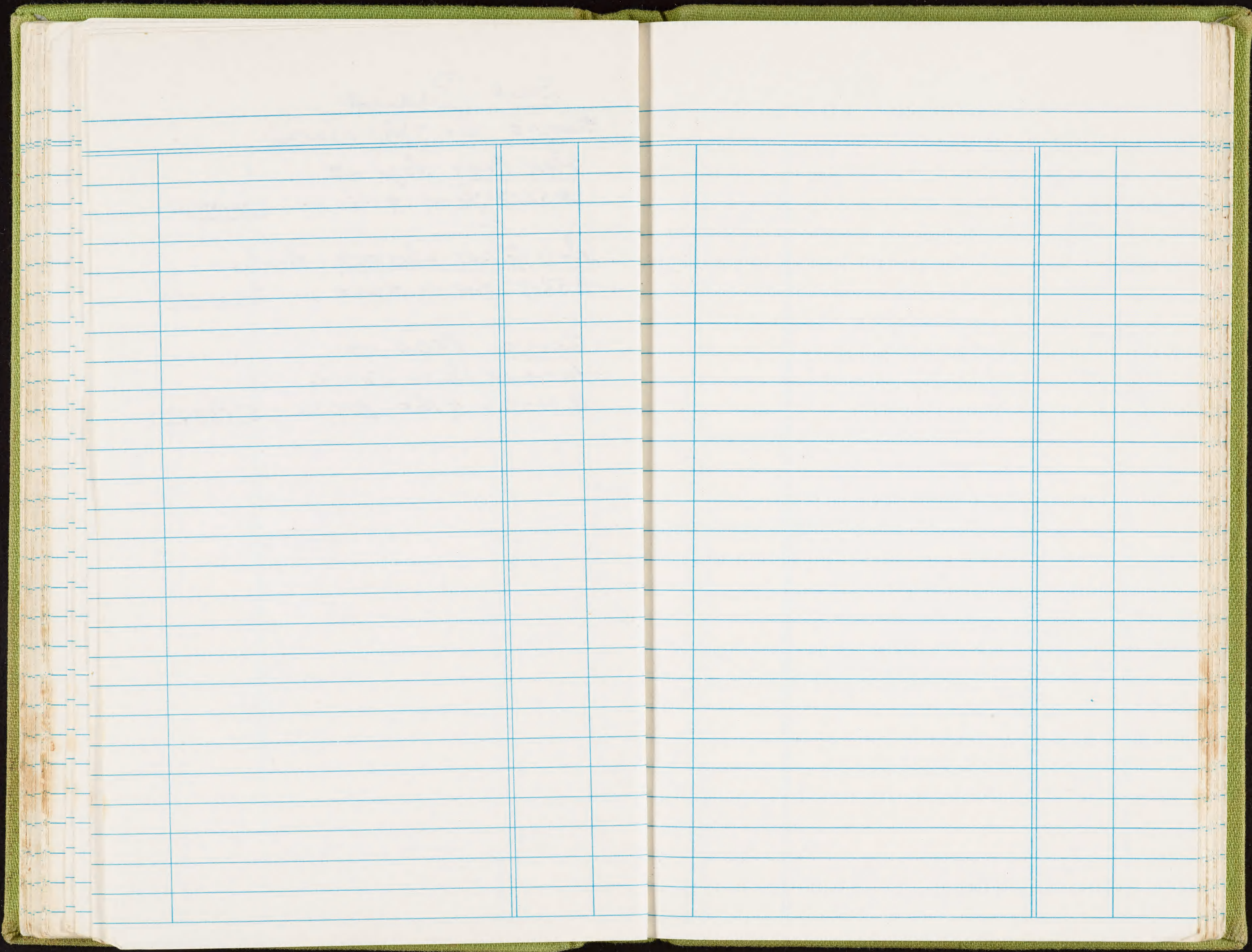
RED GIANT MUSTARD - PAGE 42

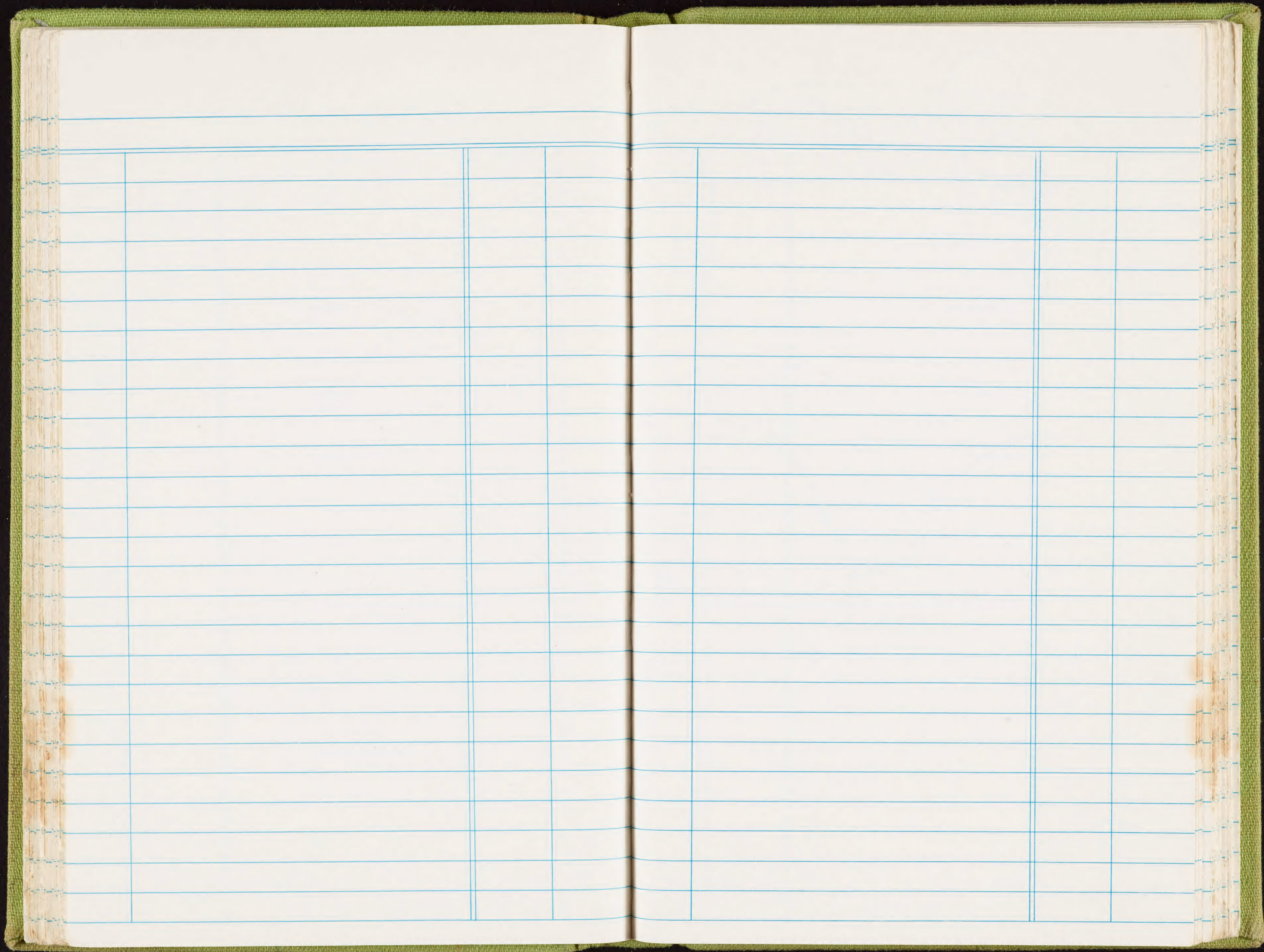
#5617 ONE OZ. \$2.50 - 2 OUNCES

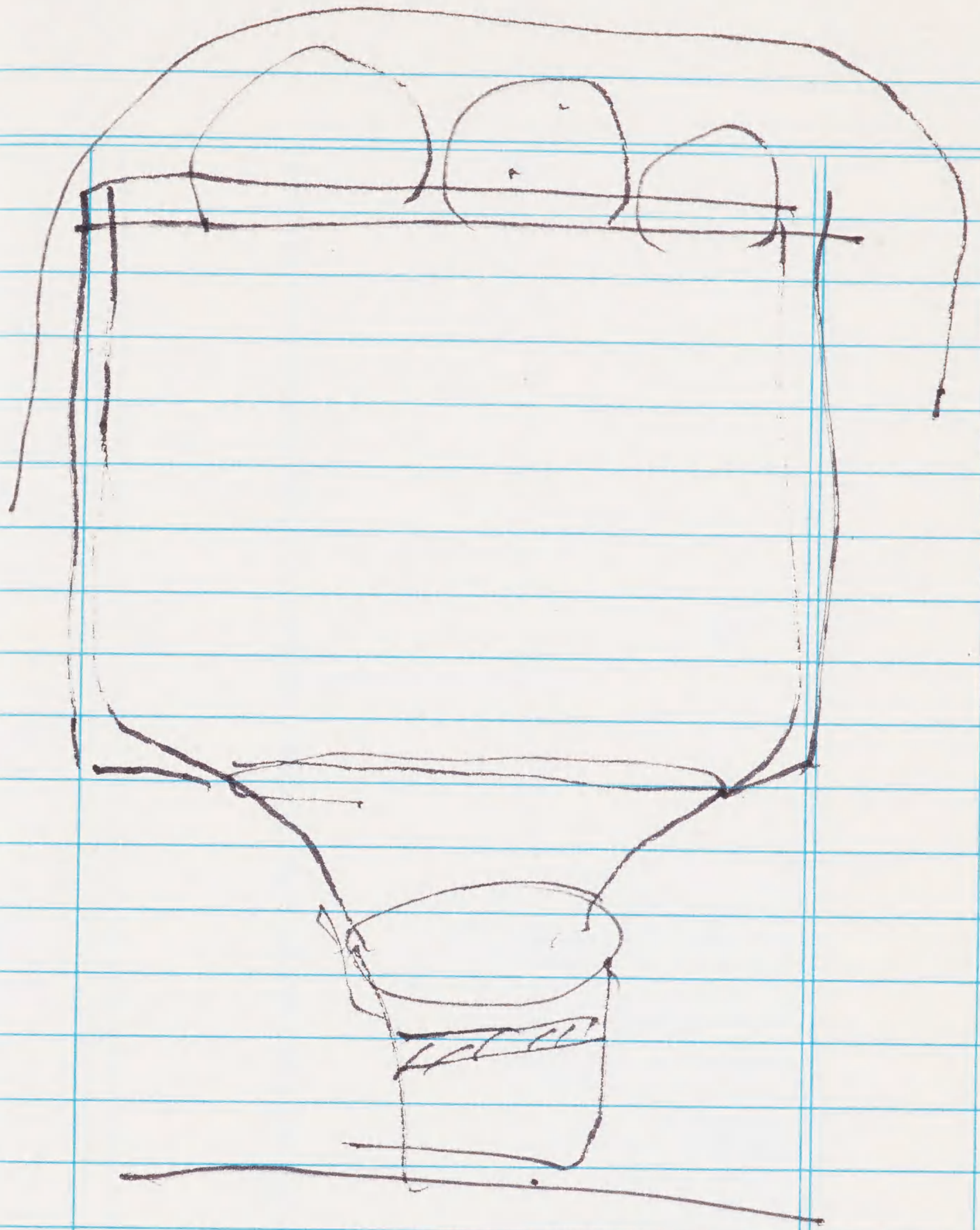
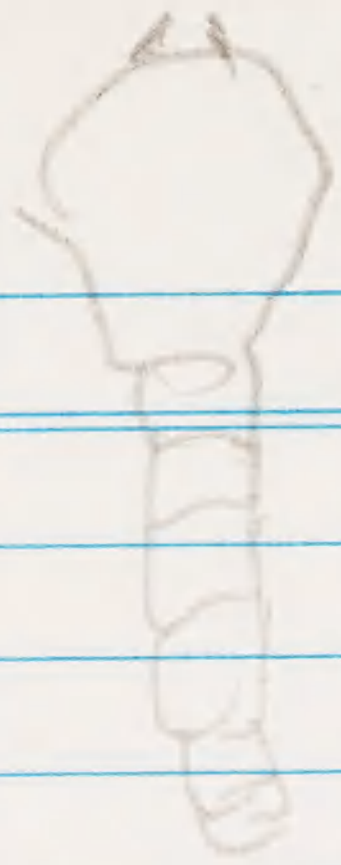
GARLIC PAGE 40

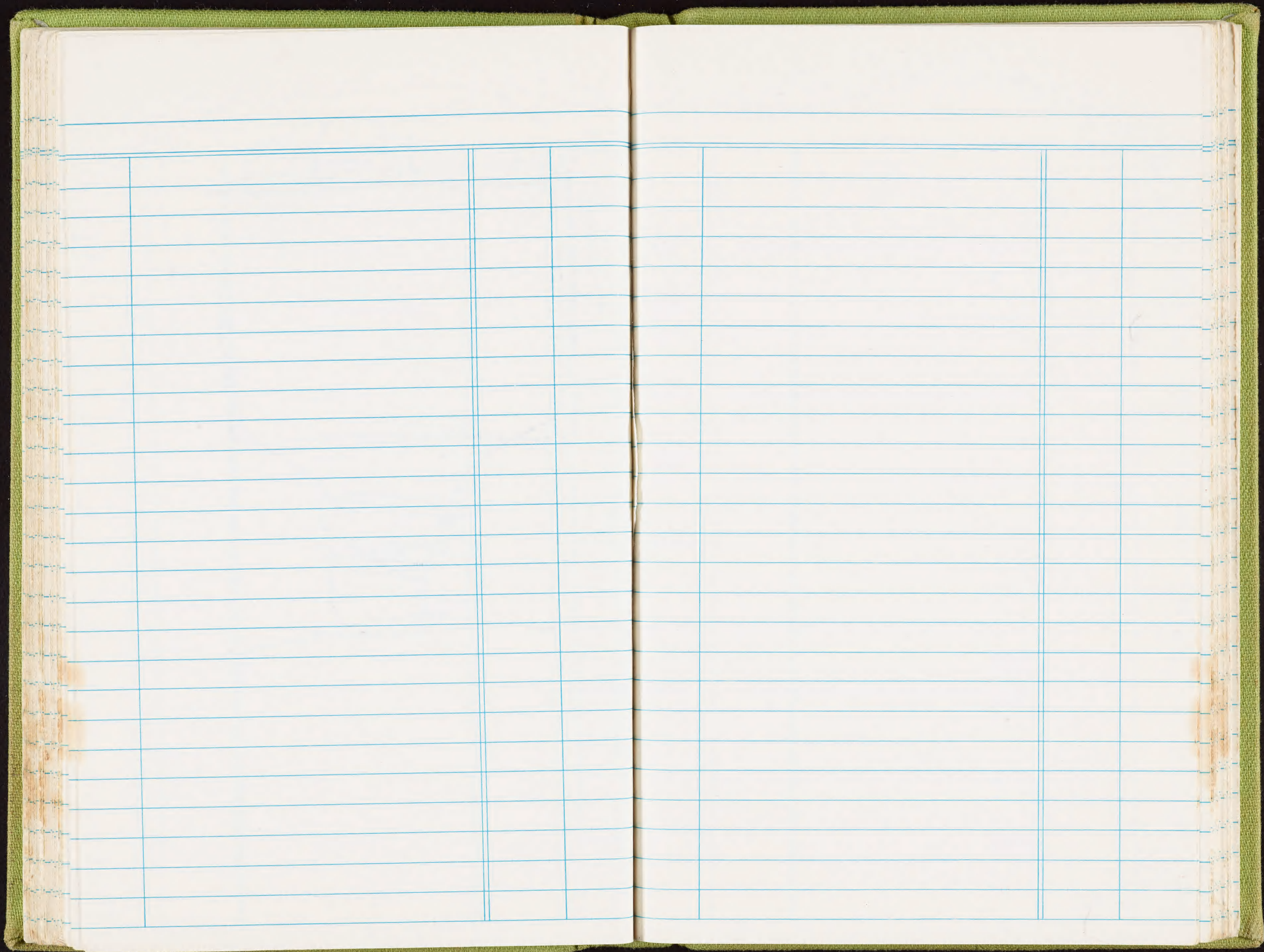
PREMIUM WHITE GARLIC

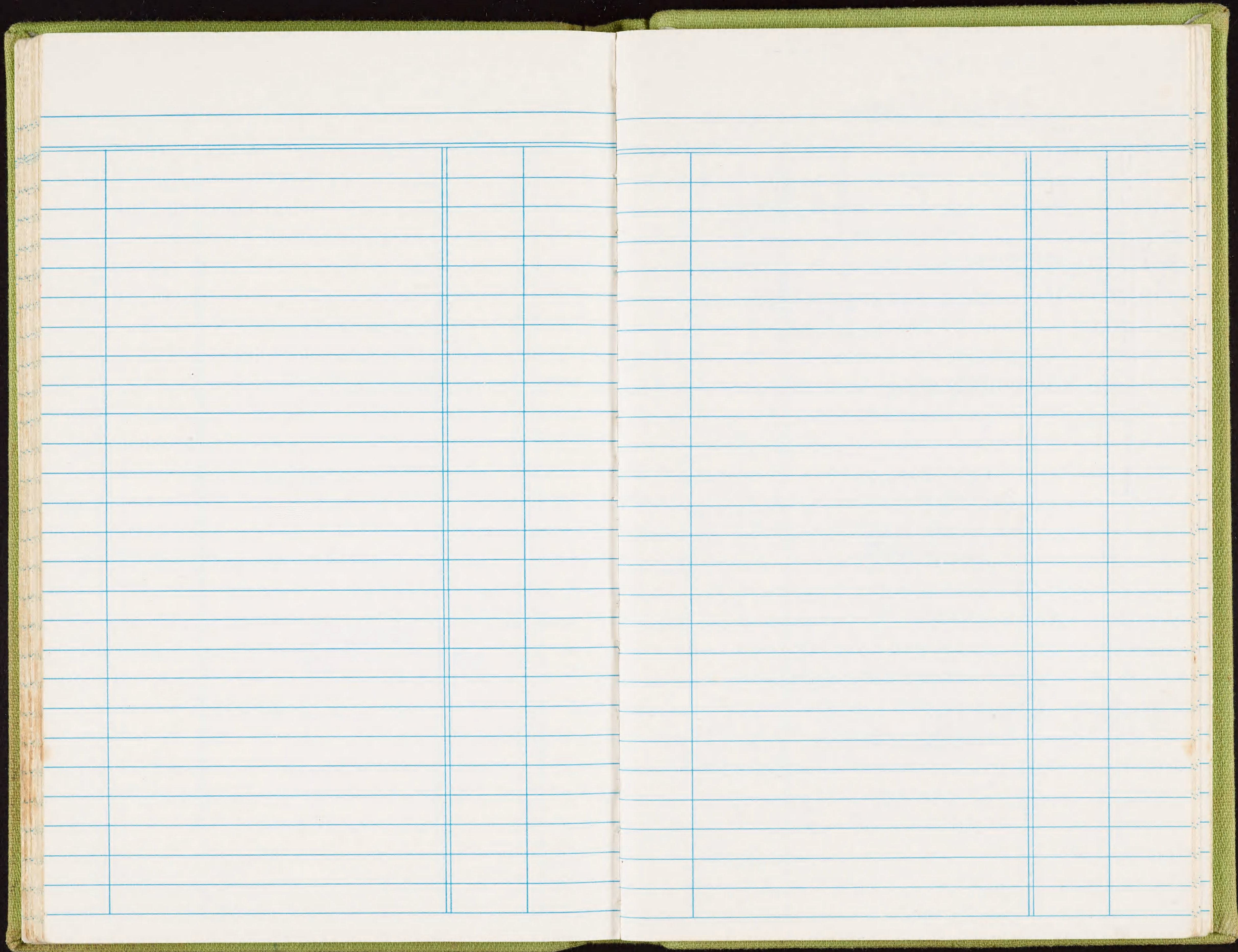
#9050 - 5 lbs - \$14.00 5 POUNDS



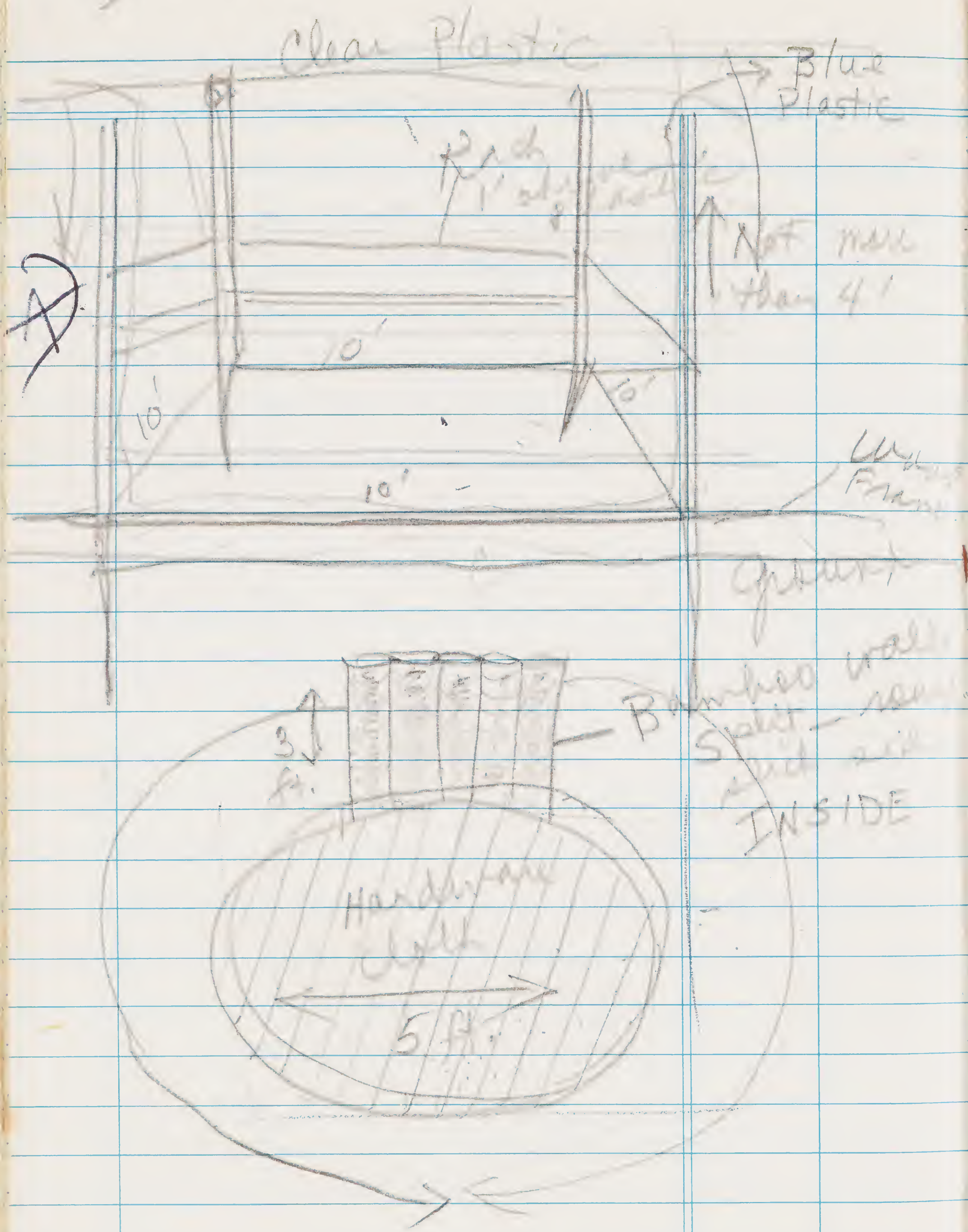








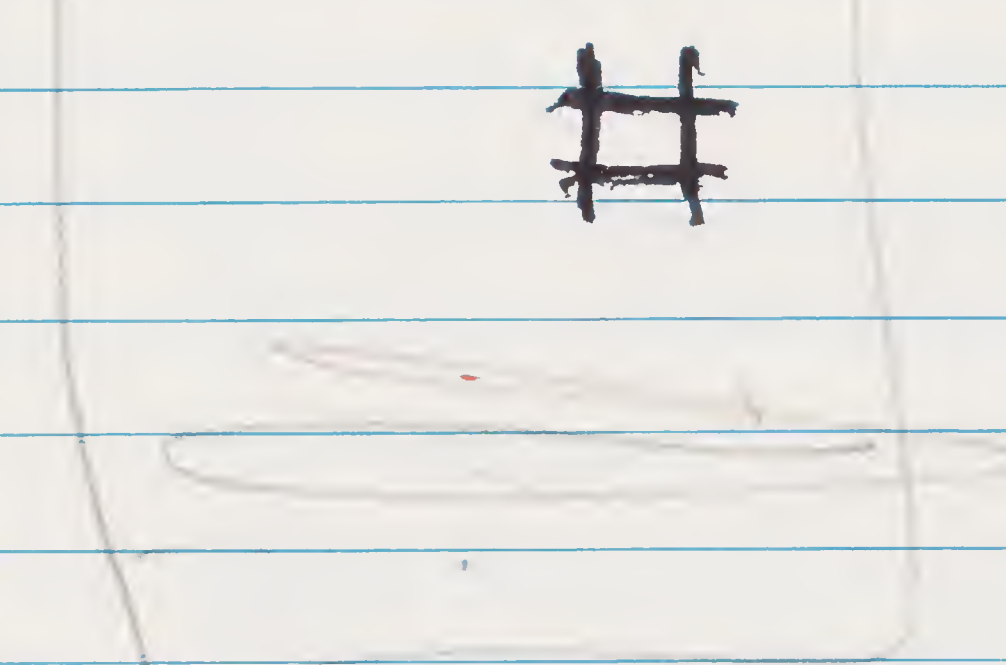
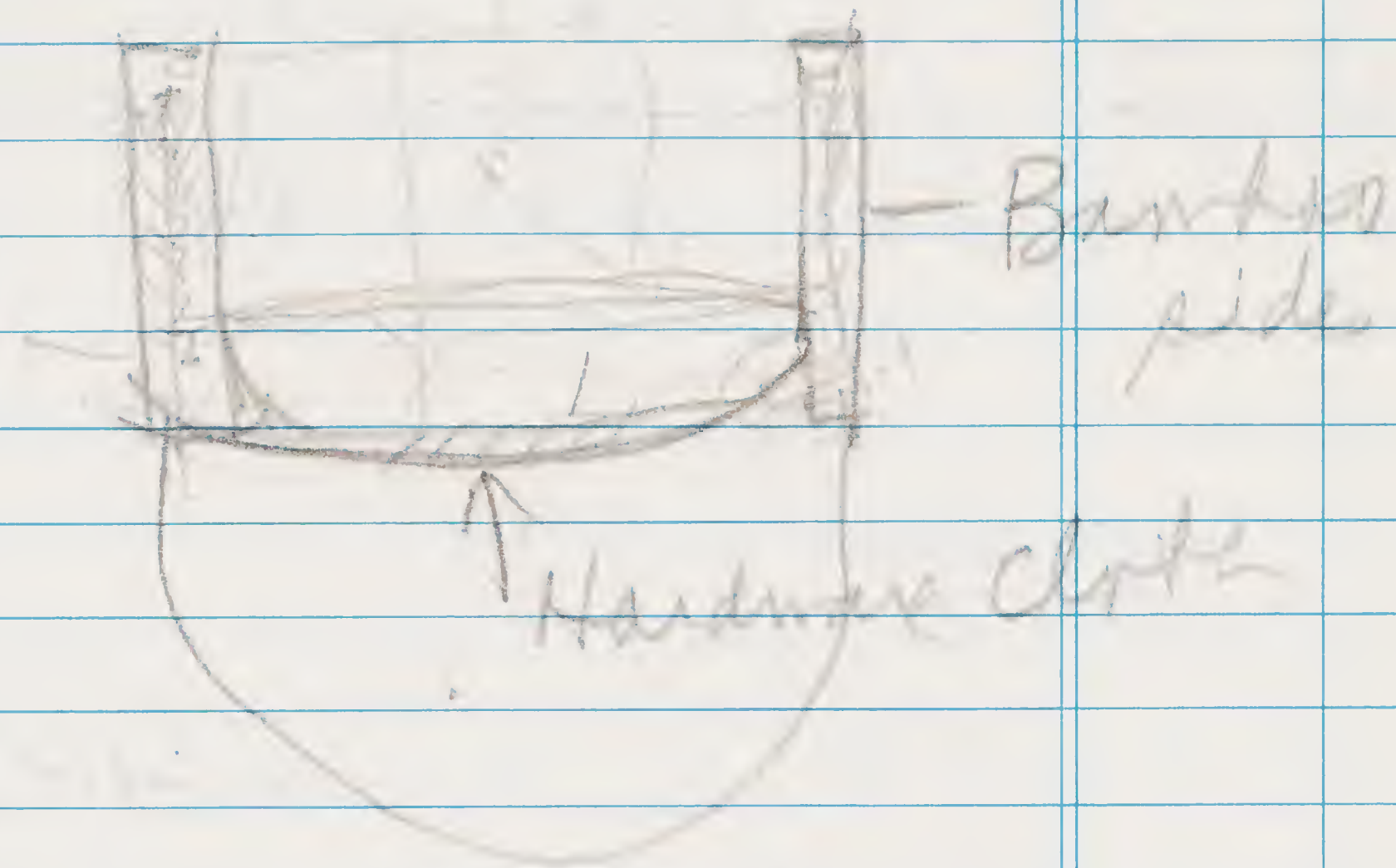
IN FULL SUN 130°



2 meters wide

$$2\pi r = C$$

$$\pi r^2 = A$$



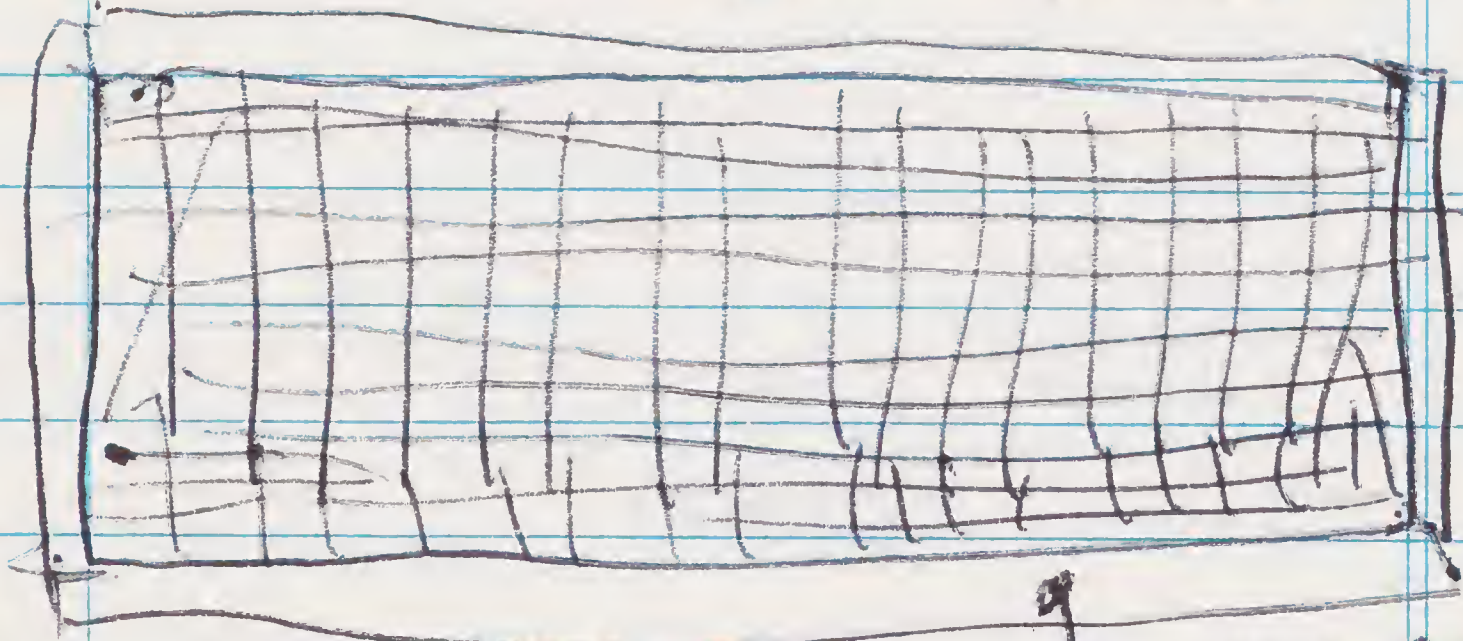
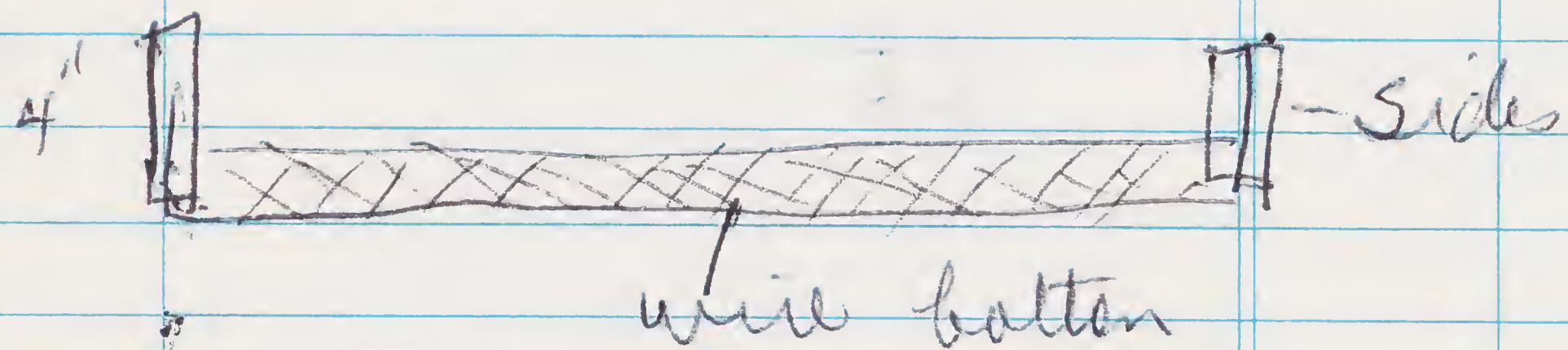
- A) 5 x 10 x 10 blue + = 500 ft²
- B) 12 x 12 x 12 clear
- 500 ÷ width = # ft in L

$$\# \text{ sides} \times L' \times W' = \text{Area}$$

5 x 10 x some multiple of
 the available width which
 when multiplied approximates 10' x the
 width available

~~1 x 10'~~

1 x 14' x same as above



wall: material to
 be determined

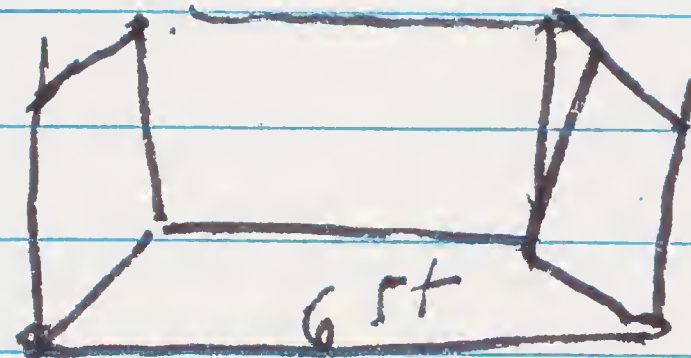
$$5 \times 6' \times 6' = 180'$$

$$\begin{array}{r} 36 \\ 50 \\ \hline 180 \end{array}$$

$$5 \times 6 \times 2 = 60' \text{ long } 6 \text{ meters wide}$$

$$60 \times 5 = 300$$

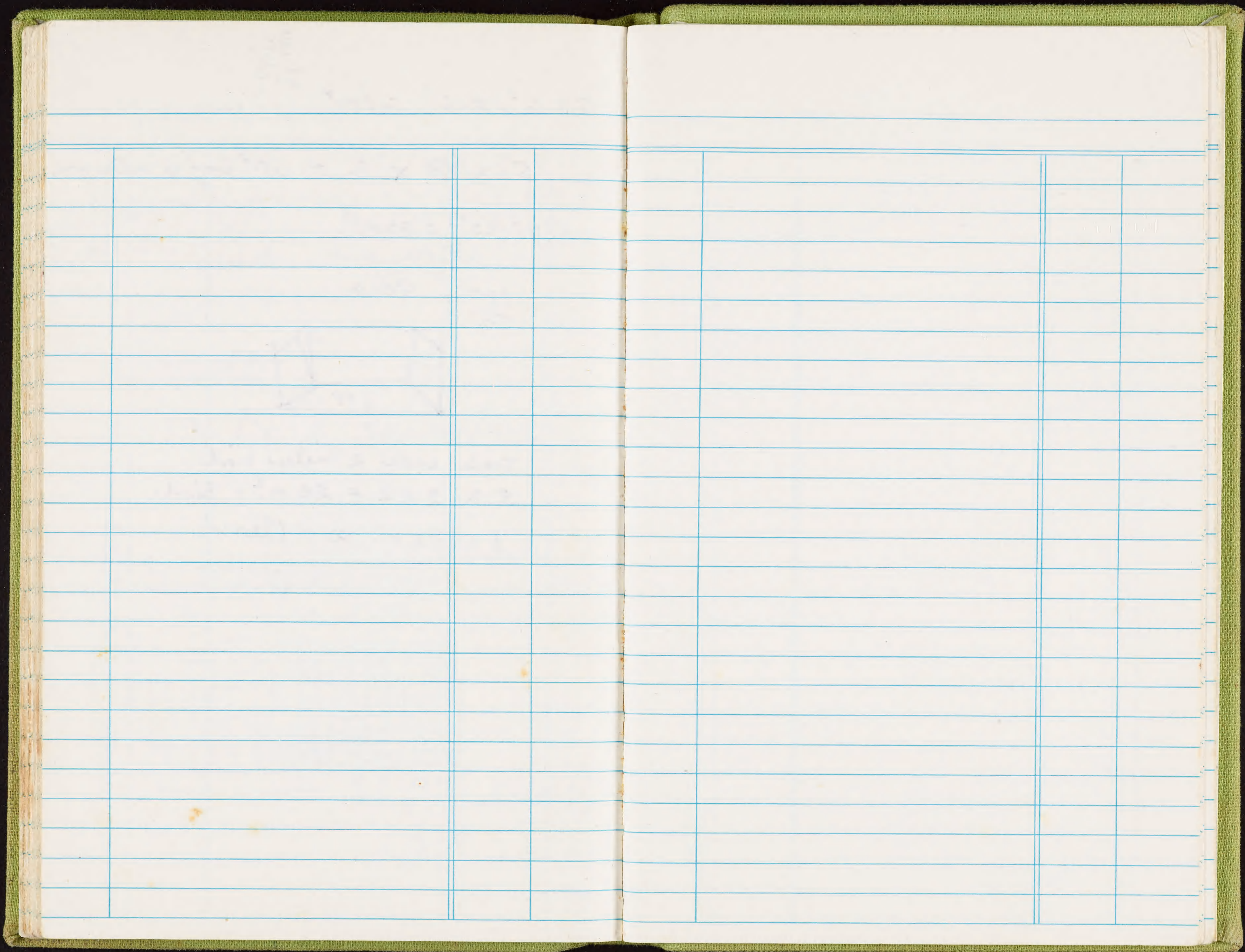
$$\frac{180}{2} = 90 \text{ m}$$



make side 2 meters high

$$5 \times 2 \times 2 = 20 \text{ m}^2 - \text{Blue}$$

$$1 \times 12 \times 12 - \text{Clear}$$



CONSULTANT TO:

- Industry
- Government

MEMBER OF:

- Entomological Society of America
- American Registry of Professional Entomologists

URBAN BIOSYSTEMS, INC.

Richard V. Carr, Ph.D., R.P.E.

URBAN PEST MANAGEMENT SCIENTIST

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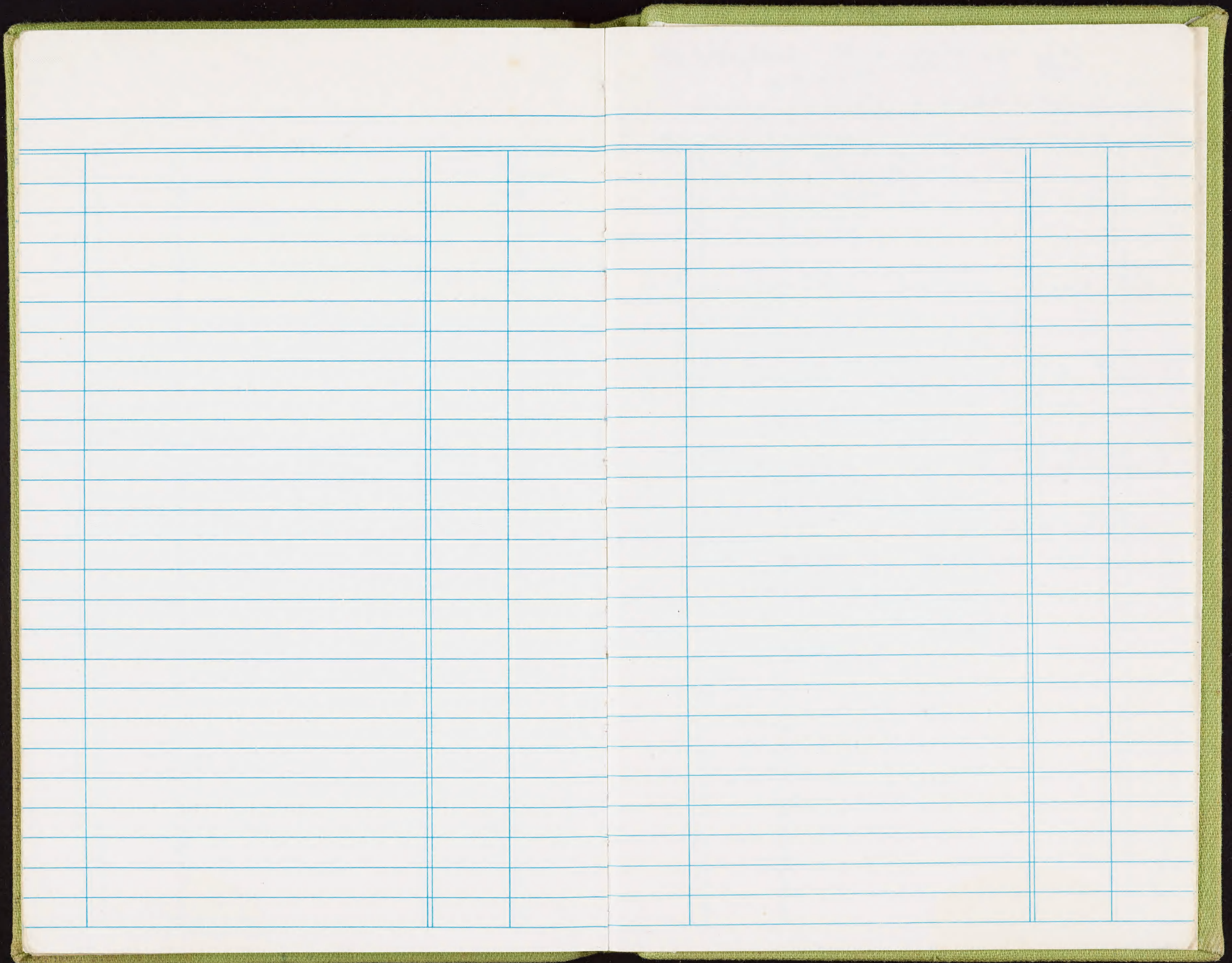
Richard V. Carr, Ph.D., R.P.E.

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(703) 734-2923



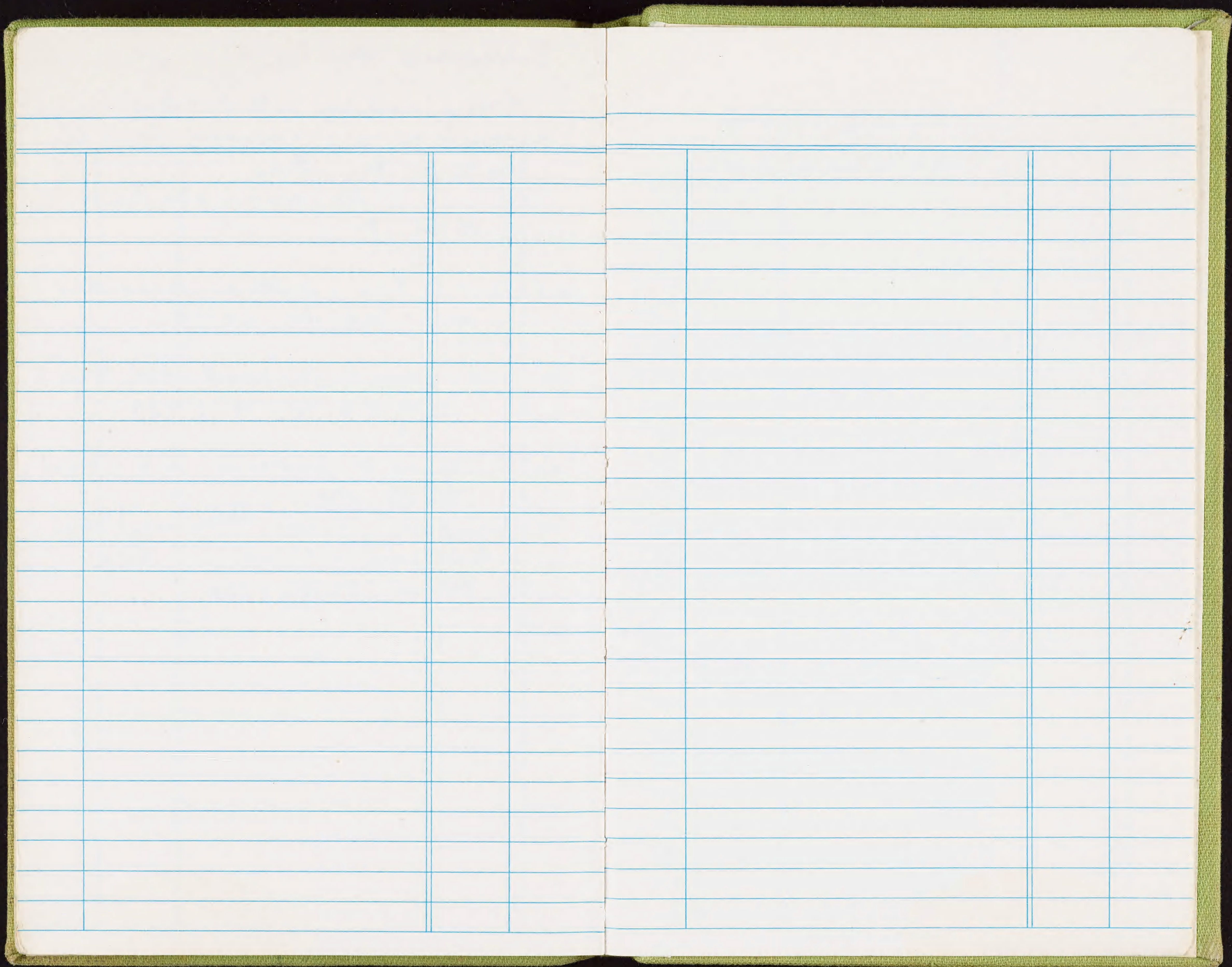
Cde viola # @ Bellfield
71574

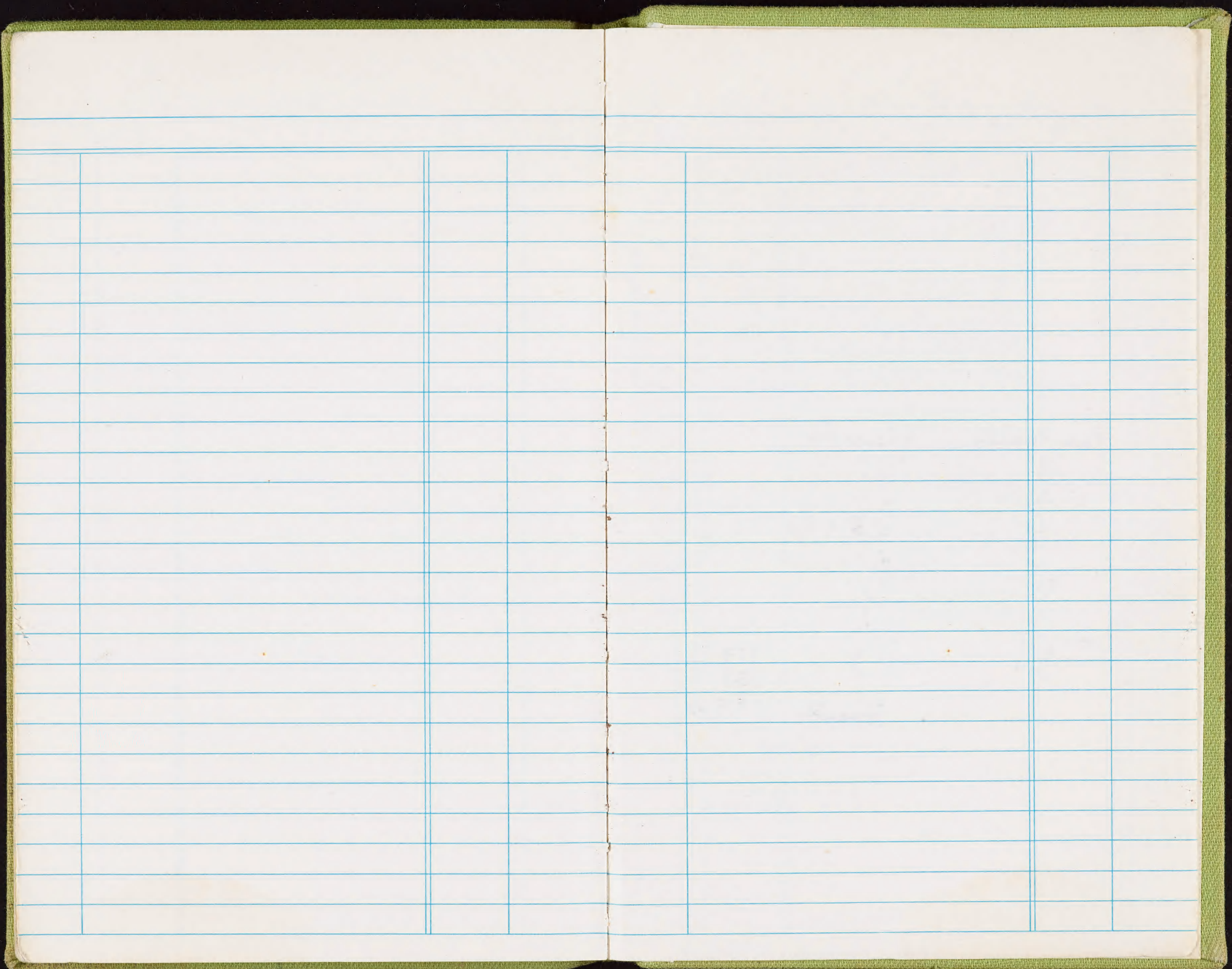
Bullman & other Rep.

Proc. of a workshop on the Determination of
Tropical Woods: Chemical Basis for
natural Resistance

Apr. 1977 (2nd Print)
NRL, PC.

- 1) Carter, F. L., Beal & Bullman - Wood Sci.,
#1, 406-410 (1975)
- 2) Beal, Carter & Southwell, For. Prod. J.
24, #8, 44-48 (1974)
- 3) Southwell & Bullman, NRL Report
7546, 1973
- 4) Southwell, Humma, Ferguson, Price,
Sweeney & Alexander, NRL
Report 5673, 1962





* * #

X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X

Peru Records	Should be	
3	21	
4	24	
5	23 ← 23	
6	22	
13	16	
6	7	
<hr/> 37	<hr/> 113	113
	Possibly	37
		<hr/> 150

Possey
 Darryl Possey
 Natl Univ. Arch
 Parking Lot A
 Adm Bldg
 2nd

21st St. between E+F
 16th St. ←
 North on 16th St.

