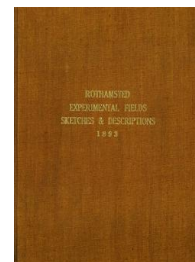


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ROTHAMSTED
RESEARCH

Rothamsted Experimental Fields Sketches and Descriptions



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Rothamsted Experimental Fields Sketches and Descriptions, 1893

Rothamsted Research

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ROTHAMSTED
EXPERIMENTAL FIELDS
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ROTHAMSTED EXPERIMENTAL STATION

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Rothamsted
Experimental Fields
Sketches & Descriptions
1893.

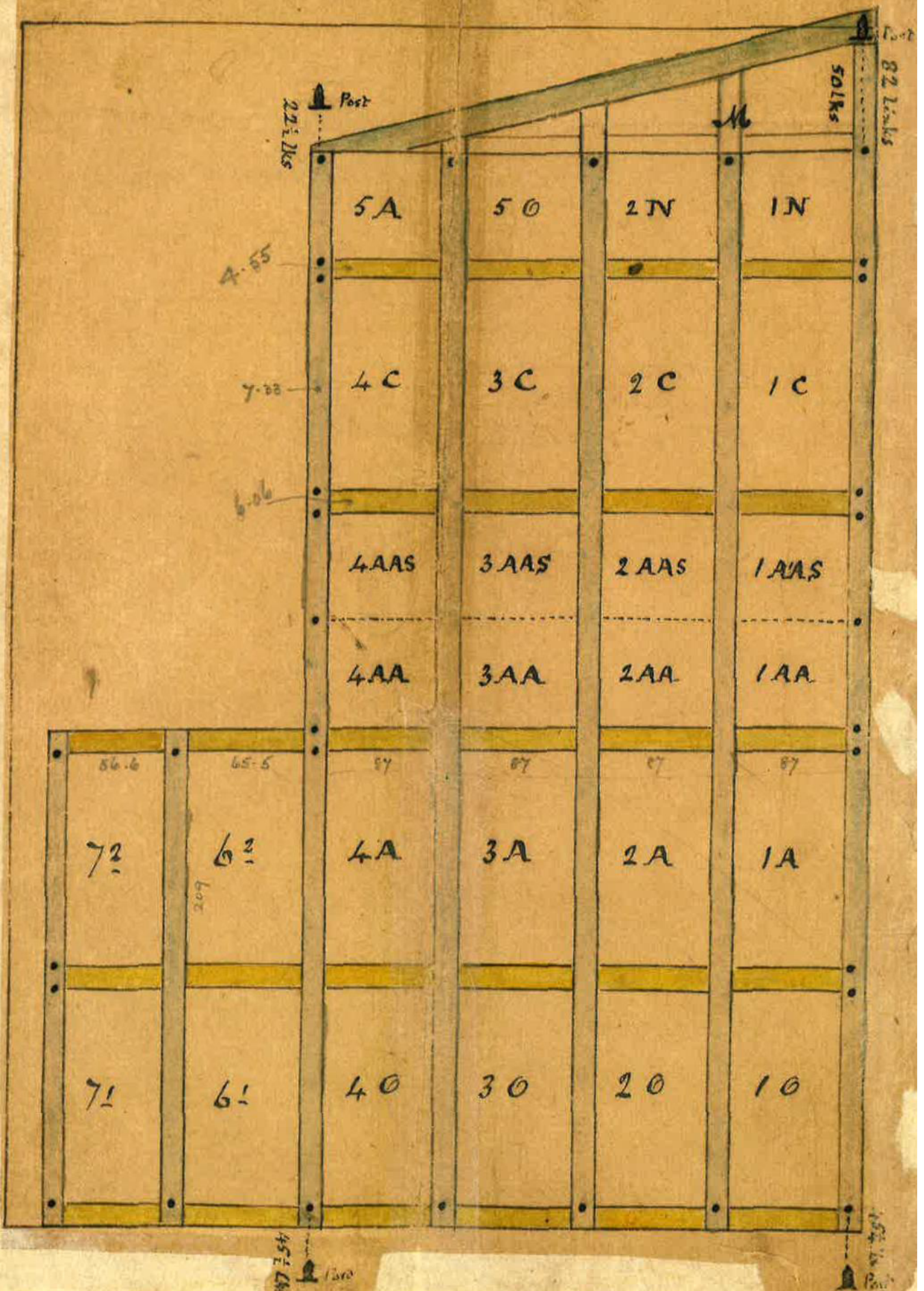
Wheat

Plot 1

9-9-3

1852

Sketch of Hoesfield, Barley-land



Hoosfield Sketch - Description.

Plan first adopted for the Barley crop of 1893.

Plots 1, 2, 3, 4 each series 209×87 links = $2/11$ acre

Plots 1n, 2n, 50, 5a, $104\frac{1}{2} \times 87$ links = $1/11$ acre

Plots 6¹, 6², $209 \times 65\frac{1}{2}$ links = 0.137 acre

Plots 7¹, 7², 209×56.6 links = 0.118 acre

Plot M ^{cut through by down path} 285.7 long & ^{mean of 35 lbs wide} 50 links at its widest end = $1/10$ acre

Pathways coloured green 4.8 feet wide = 7.33 lbs

Pathways coloured yellow 4 feet wide ^{except that between}

the C Series & Plots 1n to 5a which is 3 feet wide ^{at 55}

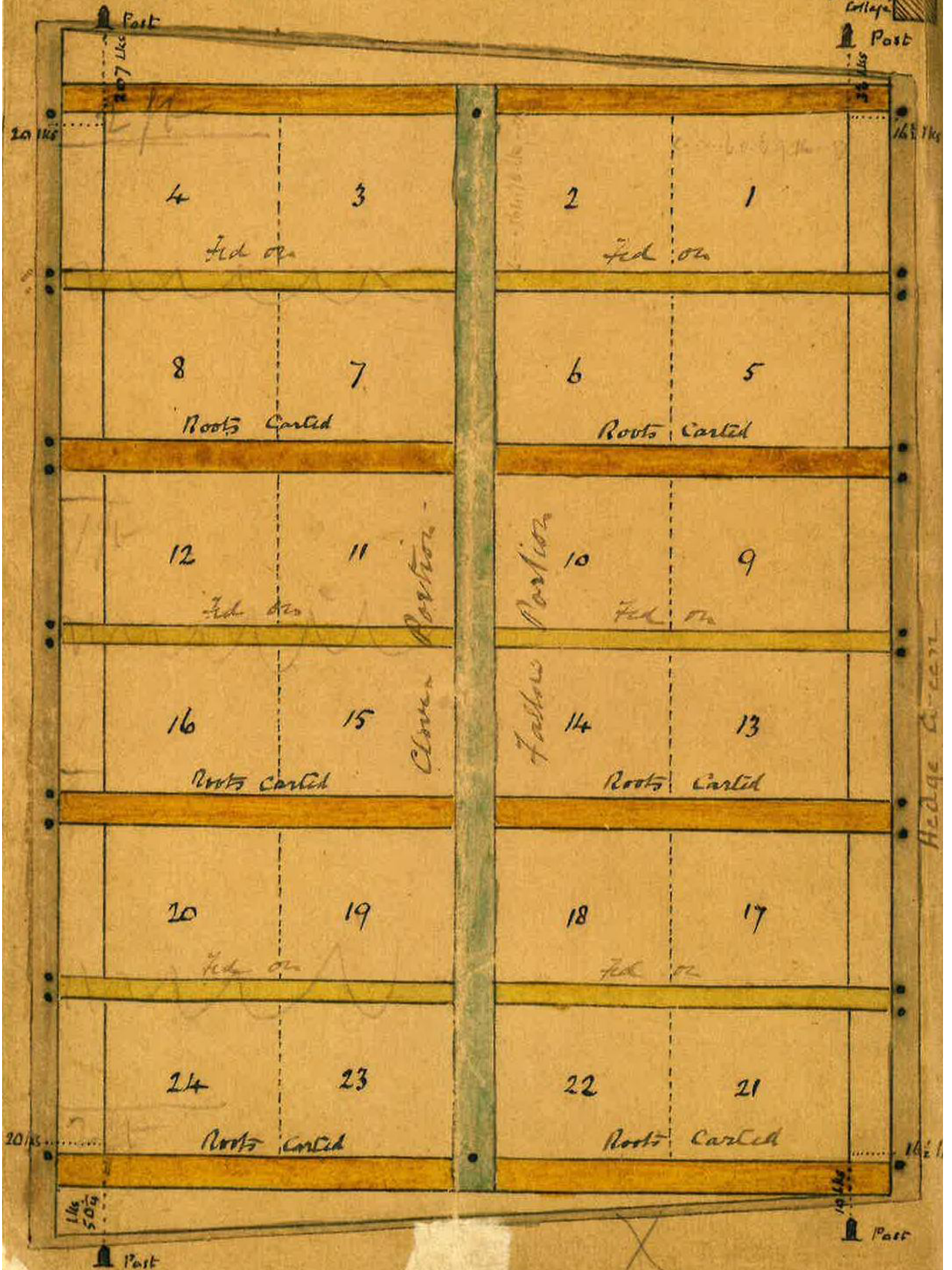
The pathways coloured yellow are ploughed up each year. No manure is applied to them, although the seed is drilled through. The Barley plant being afterwards taken out.

The Pegs (which are level with the ground) at the side of 10 to 12 and at the side of 4a to 5a with 7¹ & 7² are 2 ft 5 ins on the pathway from the straight of the Experimental Land, the other Pegs are in the middle of the Pathways indicated thus (•)

78 rows of grain on each plot

306

Sketch of Agdell Field - Rotation Experiments



Asdell Field Sketch - Description.

Plan first adopted for the Barley crops of 1893.

Each plot is 164.78×60.69 cks = $\frac{1}{10}$ acre.

Pathway coloured green 4 feet wide.

Pathways coloured dark yellow 3 feet wide.

Pathways coloured light yellow 2 feet wide.

The pathways coloured yellow are ploughed up each year. No manure is applied to them, although the seed is drilled through. The plants are afterwards taken out. As the area in every case is exclusive paths.

The pegs at the out-sides of the Experimental Land are on the Hedge-green and level with the ground.

Plots 1-4; 9-12; 17-20; have the Swedes (Root + Leaf) Fed on the Land, or cut up and spread.

Plots 5-8; 13-16; 21-24; have the Swedes (Root + Leaf) Carted off the Land.

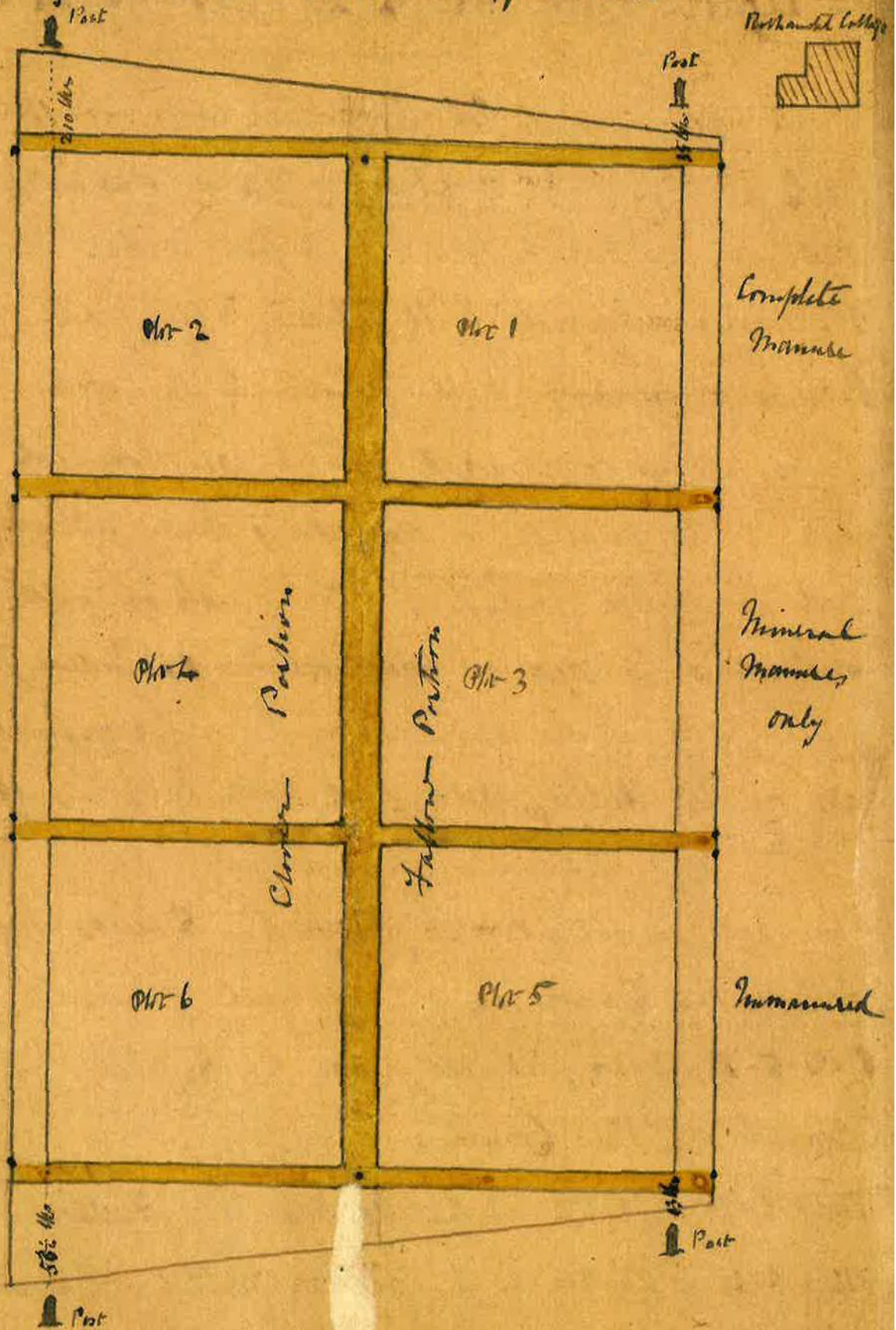
Plots 1-2 to 21-22 is the portion left Fallow.

Plots 3-4 to 23-24 is the portion planted with Leguminous Crops.

X See New plan 1905 over leaf

Sketch of Aydeh Field. Rotation Experiments. 1905

Northwood College



Agdell Field Sketch - Description

Plan first adopted for crops of 1905

Six plots each $329.56 \times 121.38 = \frac{2}{5}$ of an acre area

Pathways 4 feet wide (6.06 ha)

Plots 1, 3 + 5 Fallow in 3rd year

Plots 2, 4 + 6 Clover in 3rd year

~~In crops of 1st course~~

In 1st Crop of such course (Swedes) both

Roots and leaves carted off

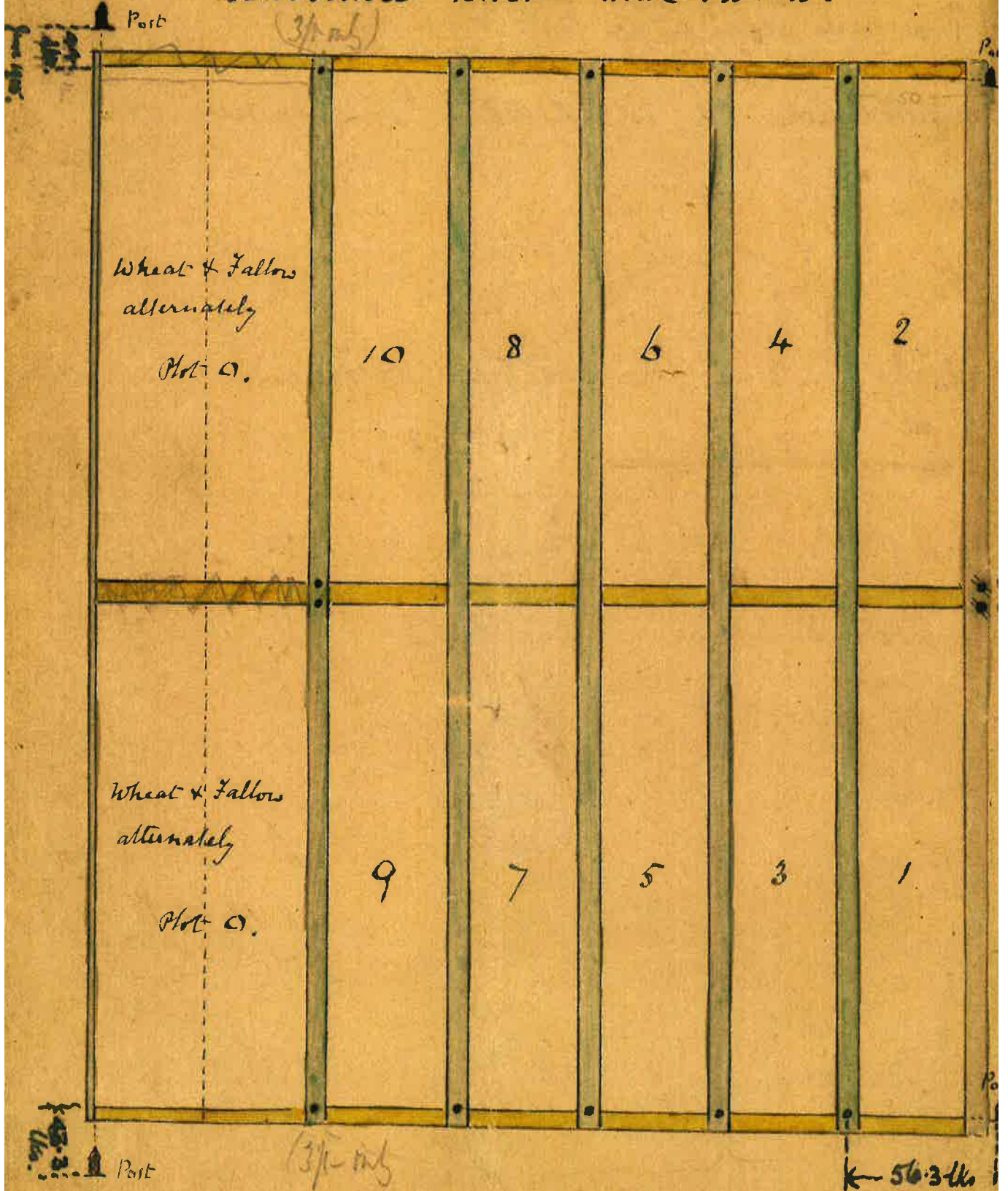
First adopted for Swedes of 1904

Complete Manner Plots 1 + 2

Imperial Manner Plots 3 + 4

Unmanned Plots 5 + 6

Sketch of Hoosfield. Potatoe Experiments and alternate wheat and Fallow.



Hoosfield Sketch of Potatoes & Alternate Wheat & Fallow Land

Plan first adopted for the Crops of 1893.

Each plot of Potatoes is $525 \times 31\frac{3}{4}$ lks = $\frac{1}{6}$ acre.

Each plot of Wheat or Fallow is 1050×47.62 lks = $\frac{1}{2}$ acre.

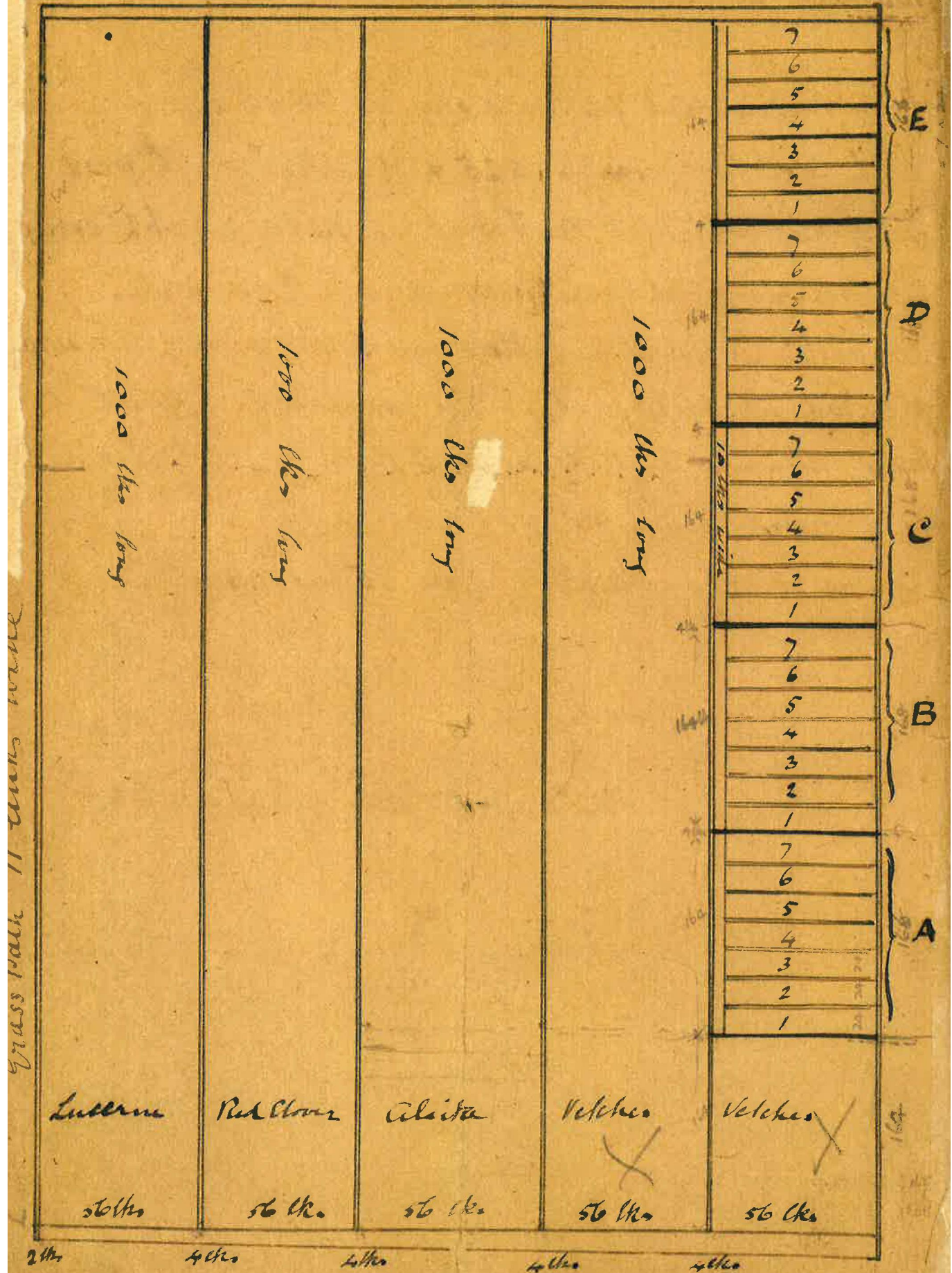
The pathways coloured Green are 4 ft. 2 ins. wide.*

The pathways coloured Yellow are 3 feet wide. These are ploughed up each year. No manure is applied to them, although the seed is sown through. The plants are afterwards taken out.

The rows of Potatoes are 25 ins apart.

* Except that between "Wheat & Fallow" and potato plots which is 3 ft.

Sketch of Hoosfield Exp. Plots, 1905



Hoosfield Luminous Experiments. ⁷

Sketch 1906 and since.

Total area 300 fms wide by 1000 fms long = 3 acres.

Divided into 5 equal divisions, exclusive of paths. $1000 \times 56 = 56000$ sq. fms.

Division paths 4 fms wide

Pathway at end of Small Beds 10 fms wide

Each of the Small beds exclusive of the division paths is $50 \times 20 = 1000$ fms

Cropping of Small Beds

Plots	1	A	E	Lucerne
"	2	"	"	Beans or Peas alternately
"	3	"	"	Botchura clover
"	4	"	"	Sainfoin
"	5	"	"	Alsike clover
"	6	"	"	Red clover
"	7	"	"	Velches.

$$\begin{array}{r} 20 \times 7 = 140 \\ 6 \times 4 = 24 \\ \hline 164 \end{array}$$

Plot length north of main path 140 fms. 164 fms. width of main path

$$\begin{array}{r} 56 \times 5 = 280 \\ 18 \\ \hline 309 \end{array}$$

$$\begin{array}{r} 300 \\ 11 \\ \hline 278 \end{array}$$

$$\begin{array}{r} 300 \\ 11 \\ \hline 311 \end{array}$$

$$\begin{array}{r} 164 \\ 6 \\ \hline 984 \\ 88 \\ \hline 1000 \end{array}$$

Hoosfield - Sketch of Leguminous Plant Expts.

X



Sketch of Leguminous Plant 4^{pts} - Description.

Plan adopted for the crop of 1893.

Each plot is 166.67×100 lbs = $\frac{1}{6}$ acre.

Each Series originally consisted of 5 lands each 20 lbs.
(or descriptions of plants)

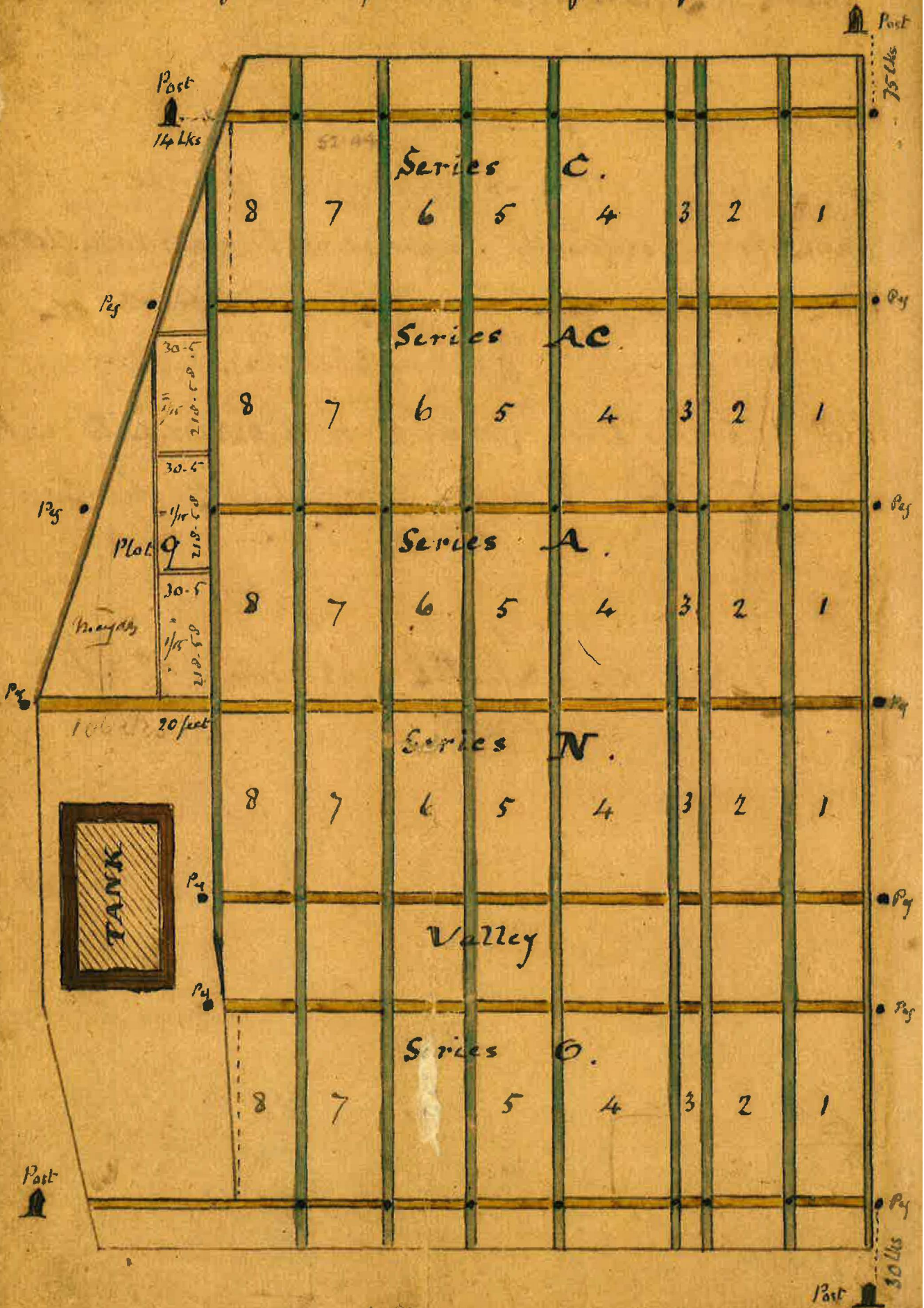
Each plot is divided into 7 equal divisions of

$12.8\frac{1}{2}$ each with a 3 feet path between each plant.

Plot 1 Series I is devoted to Experiments with
Leguminous Plants in 48 small beds
each 3 yards by 2 yards.

(See New Sketch previous pages)
1906

Sketch of Barnfield. Mangold Experiments.



Barusfield Sketch - Description.

Plan adopted for the Mangold crop of 1893.

Each plot is 278.38 links long. Valley one half
width

Plots 1, 2, 5, 6, 7 + 8 are 52.44 links wide = 0.14598
part of an acre. Factor used 6.85 x
13.11

Plots 3 are 73 links wide = 3649.56 sq. lks. Factor for
calculating the actual crop results to quantities per acre 27.406

Plots 4 are 72.11 links wide = 20073.98 sq. lks. Factor for
calculating the actual crop results to quantities per acre 4.9815.

Plot 8 C is measured out to ^{39.324} 39 links wide = 10917 sq. lks.
Factor for calculating the actual crop results to quantities per acre 9.135.

The Pathways coloured green are 6.56 links wide =
= 4 ft. 2 in.

The Pathways coloured green between Plots 1 and the Baulk
is one half the above width = 3.28 lks. wide.

The Pathways coloured yellow are 4.62 links wide;
= 3 feet

These are ploughed up each year. No manure is
applied to them, although the crop is sown through.

The plants being afterwards taken out.

Plot 9 contains an area of 0.46 of an acre.

The Pegs which are level with the ground are placed down the
Baulk by the side of Plot 1, and in the middle of the Green pathways
at the Top of the C series, the Bottom of the B series, & between A & A series.

The rows of Mangolds are 26 ins apart, except Plot 9 which is 22 ins.

Rothamsted Park Grass plots - Sketch Description.
Revised Jan 1903

- Plot 1 - $293 \times 66 = .19338$ acre
 Plots 4, 2, 3 are each 371×66 lbs = $\frac{2}{3}$ acre
 Plots 4¹, 4², 11¹, 11², 12 are each 393×62.5 lbs = $\frac{2}{3}$ acre
 Plots 5 to 10 and 13 are each 393×125 lbs = $\frac{2}{3}$ acre
 Plots 14, 15, 16, 17 are each 244×66 lbs = $\frac{1}{3}$ acre
 Plot 18 is 500×100 lbs = $\frac{1}{2}$ acre
 Plots 19, 20 are each 250×50 lbs = $\frac{1}{8}$ acre.

The pathway between plots 4¹ to 11² and

18 to 20 is six feet wide:

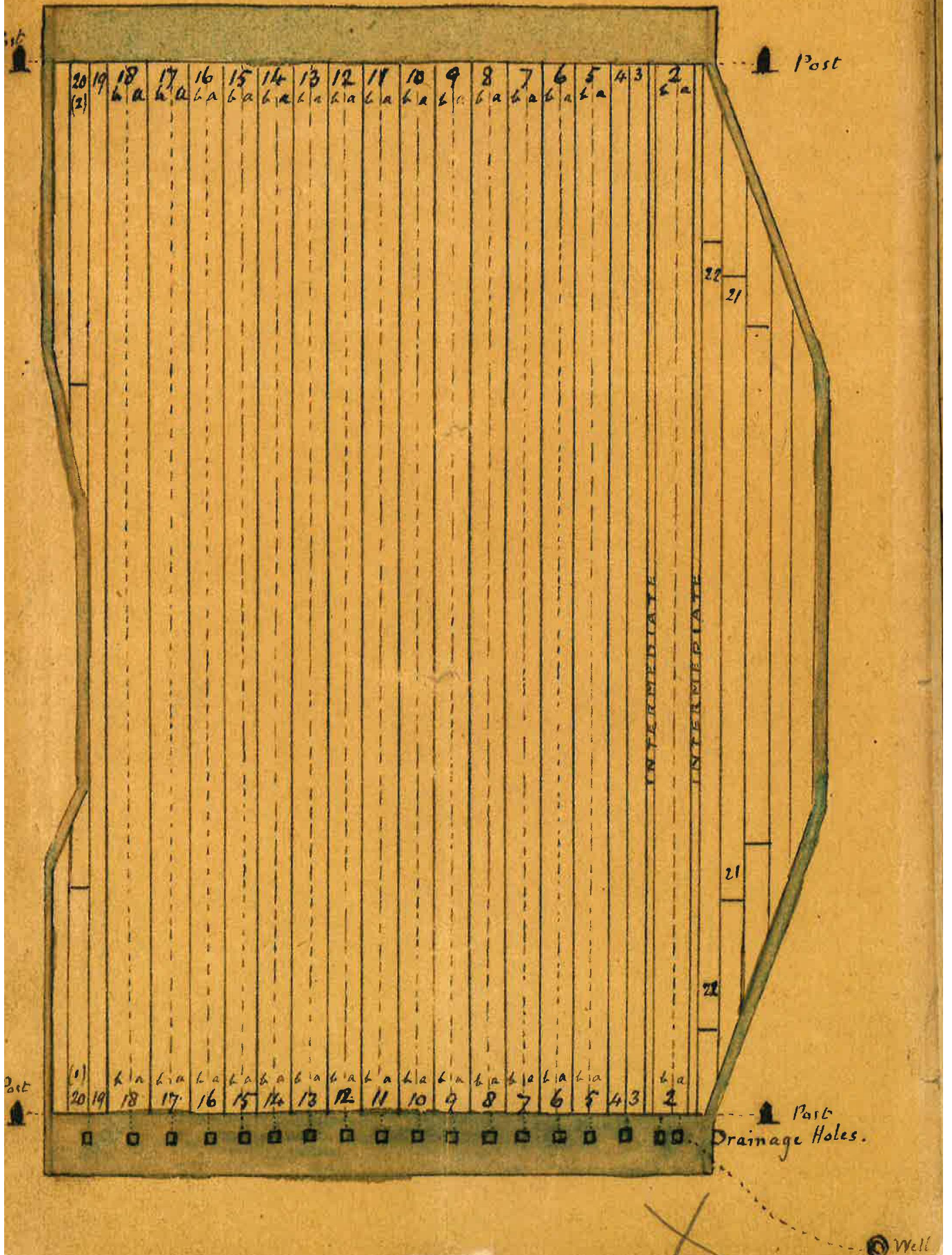
Plot 5 - 198.5×125 halved exactly, each half $.24563$ lbs.
 ~~$175 \times 125 = .21925$ acre~~ ~~each half $.109625$ acre~~
~~pathway that is $19.21 \times 125 = .240125$ acre.~~

Plot 1 reduced in length because of influence of large oak tree. July 1905. For the second crop of 1905 the full area of $.24486$ was again taken. Early in 1906 however the dividing posts at the south end of each plot were moved from the east to the west side reducing the length by 78 links and making the area as above viz 293×66 links = $.19338$ acre area.

Plot 1 18 links
 Plot 2 12 links
 Plot 3 12 links
 Plot 4 12 links

Sketch of Broadbalk Field.

1844 to 1892.



Broadbalk Sketch - Description.

Each plot 'a' and 'b' is 1600 links long
by 18.75 links wide = $\frac{3}{10}$ acre

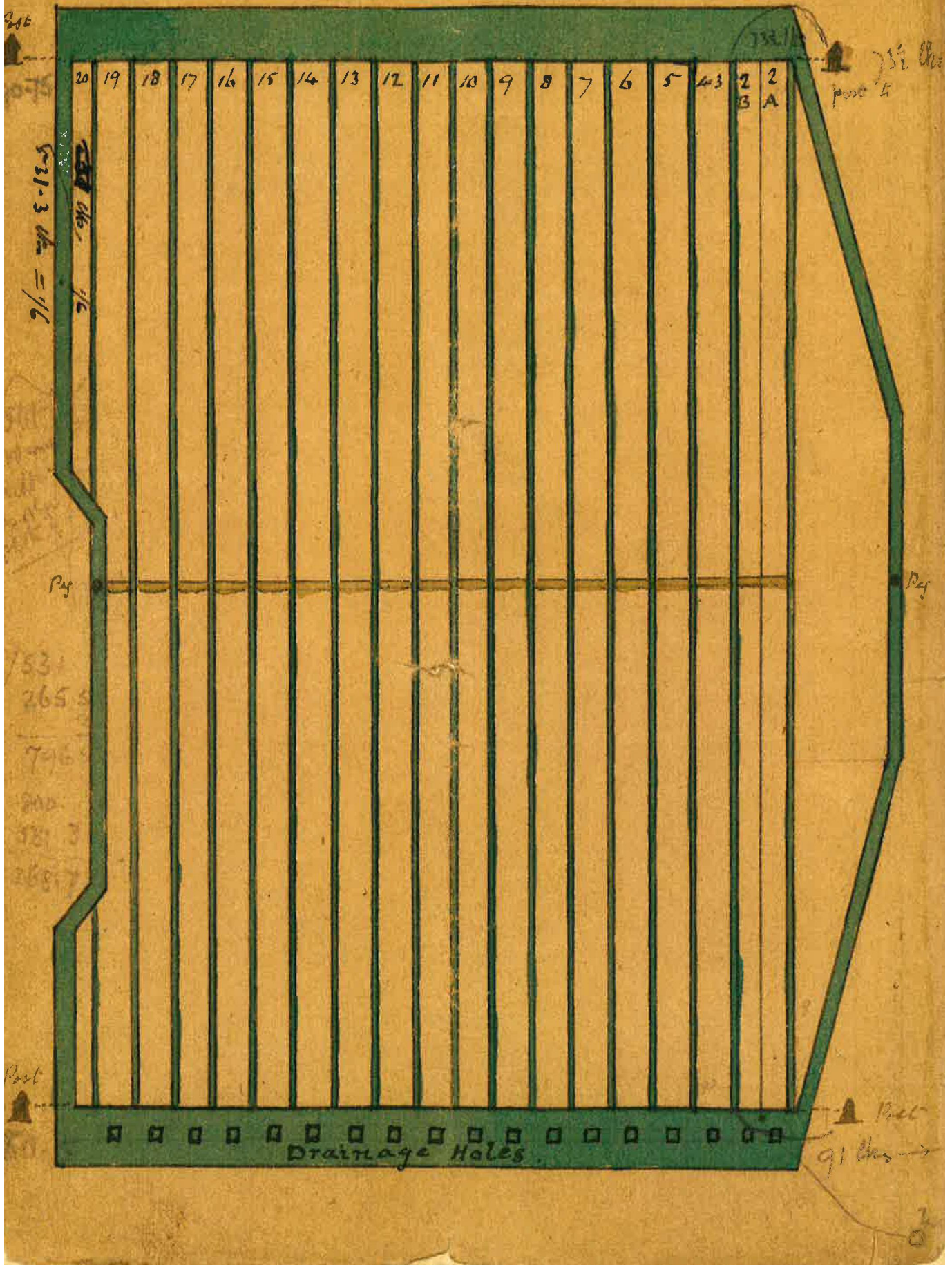
The Intermediate is half a land = 9.375 lbs
on each side of Plots 2 ab.

Plot 20¹ (Rape Cake) is taken $200 \times 18.75 = \overset{375 \text{ lbs}}{\cancel{20}} \text{ acre}$

Plot 20² (Unmanned) is taken $667 \times 18.75 = \frac{1}{8} \text{ acre}$

18.75
18.75
375
375

Sketch of Broadbalk Field. 1893-4.



Broadbalk Field. Description.

Double Lands, reducing the area from 6/10 to 2/3 acre, by making side paths & cross-paths.

(less cross-paths in centre of field?)

Total length 159 1/4 links } = 1/2 acre

" width 31.37 "

= 20.7 1/4
(20-8)

width of side paths 6.13 lbs. = 4 ft 0 1/2 in

" " centre cross-path 6 lbs.

Plots 2a & 2b each 18.82 lbs = 18.6 1/2 ^{lbs, in} = 3/10

The original "Intermedial" between Plots 3 & 2b left unplanted.

Plot 20 both Top & Bottom added to Plot 19 making a total area of 0.47675 acre

A new plot 20 (Intermedial) was taken from Knott's Wood Bettle (top of field only)

width as the other plots 31.37 lbs x 531.3 = 166 acre

31.37
15.68

31.37
37

31.37
2

measured from post to Bank peg which is 3.06 links from edge of 3-a and 9.37 links from edge of 2B (at N corner)

531.3
31.37
91
39
3
21959
15000
6959