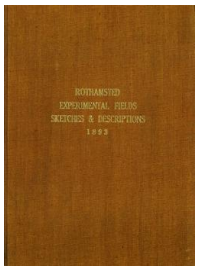
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Rothamsted Experimental Fields Sketches and Descriptions



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ROTHAMSTED
EXPERIMENTAL FIELDS
SKETCHES & DESCRIPTIONS
1893

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ROTHAMSTED EXPERIMENTAL STATION

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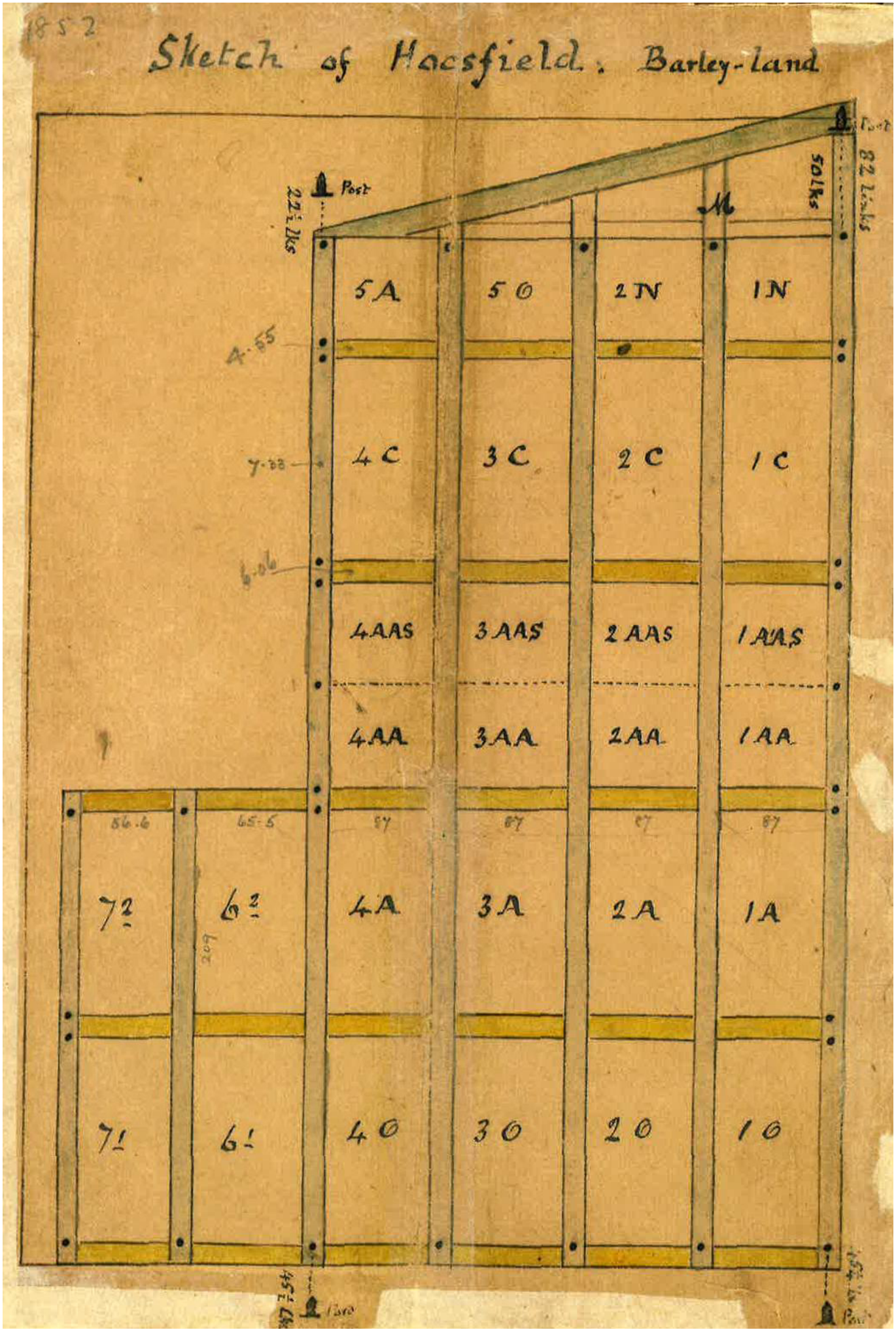
Rothamsted Experimental Fields

Sketches & Descriptions.

1893.

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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, 5a, 5a, 104½ × 87 links = 1/11 acre

Plots 6-, 6+, 209 × 65½ links = 0.137 acre

Plots 7-, 7+, 209 × 56.6 links = 0.118 acre

Plot M cut through by down path 285.7 long × mean of 35 lks wide = 1/10 acre 50 links at its widest end.

Pathways coloured green 4.8 feet wide. = 7.33 lks 4ft 1c 4 = 6.06 lks

Pathways coloured yellow 4 feet wide except that between the C Series & Plots 1n to 5a which is 3 feet wide = 4.55

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.

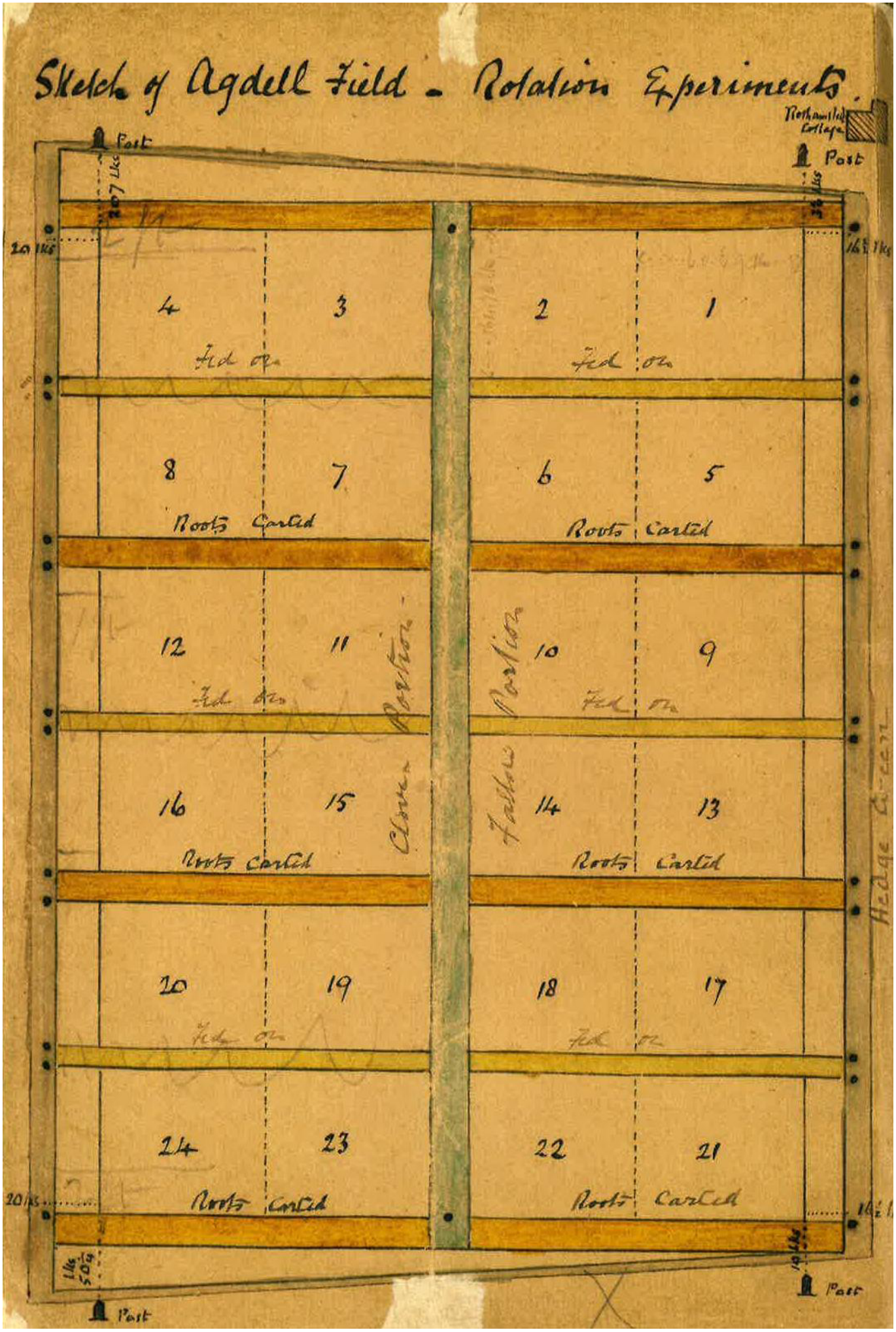
The Pegs (which are level with the ground) at the side of 10 & 1n and at the side of 4aa to 5a with 7- & 7+ are 2ft 5ins on the pathway from the straight of the Experimental Land, the other Pegs are in the middle of the Pathways indicated thus (•)

78 rows of grain on each plot

3.6

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Agdell Field Sketch. Description.

Plan first adopted for the Barley crop of 1893.
Each plot is 164·78 × 60·69 lks = 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.

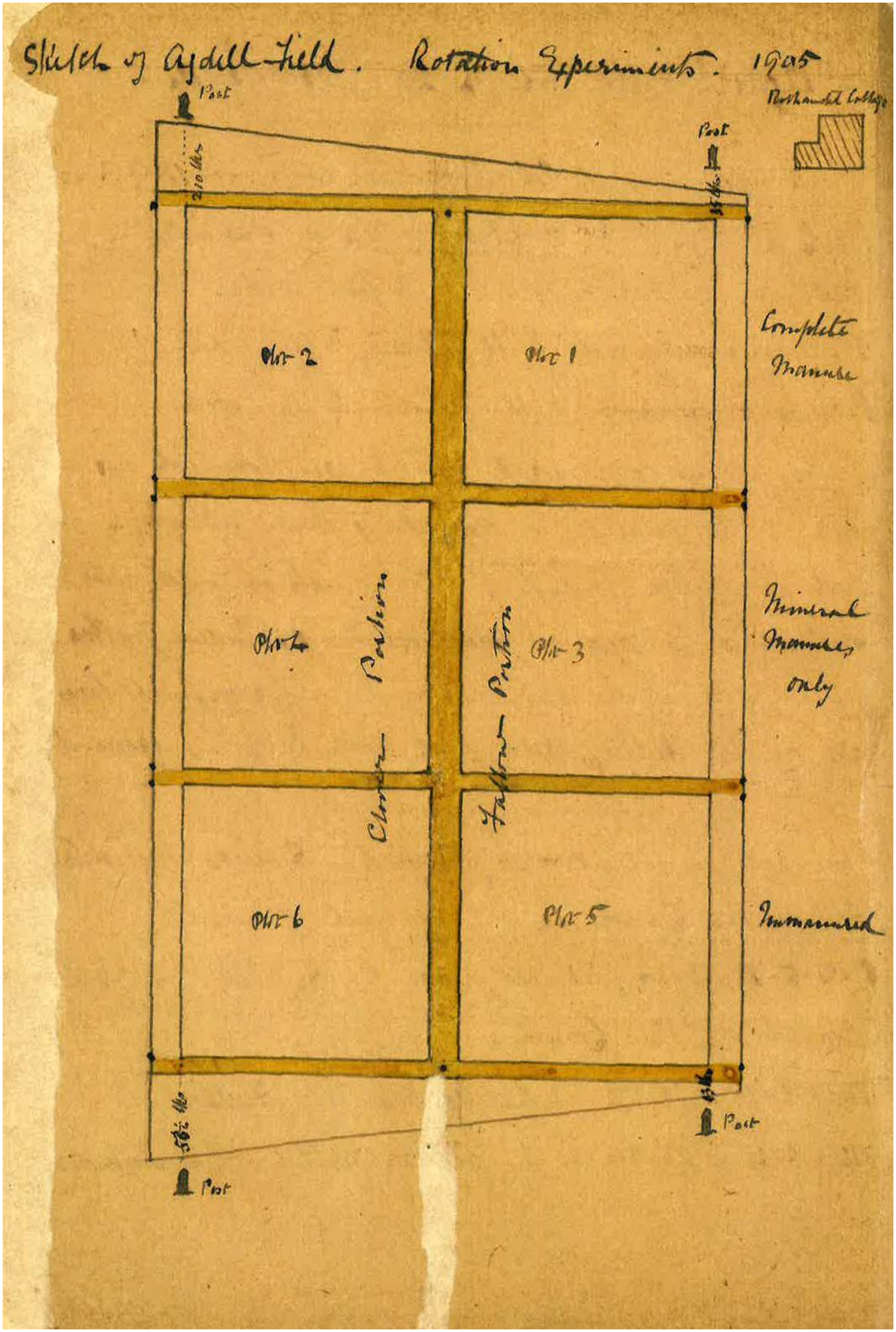
The pegs at the outsides of the Experimented land are on the Hedge-green and level with the ground.

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 & 21-22 is the portion left Fallow.
Plots 3-4 & 23-24 is the portion planted with Leguminous Crops.

X See New plan 1905 over leaf

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Agdell Field Sketch & Description

Plan first adopted for Crop of 1905

Six plots each 329.56 × 121.38 = 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 Crop of 1st Course~~

In 1st Crop of Each Course (Swedes) both Roots and Leaves carted off

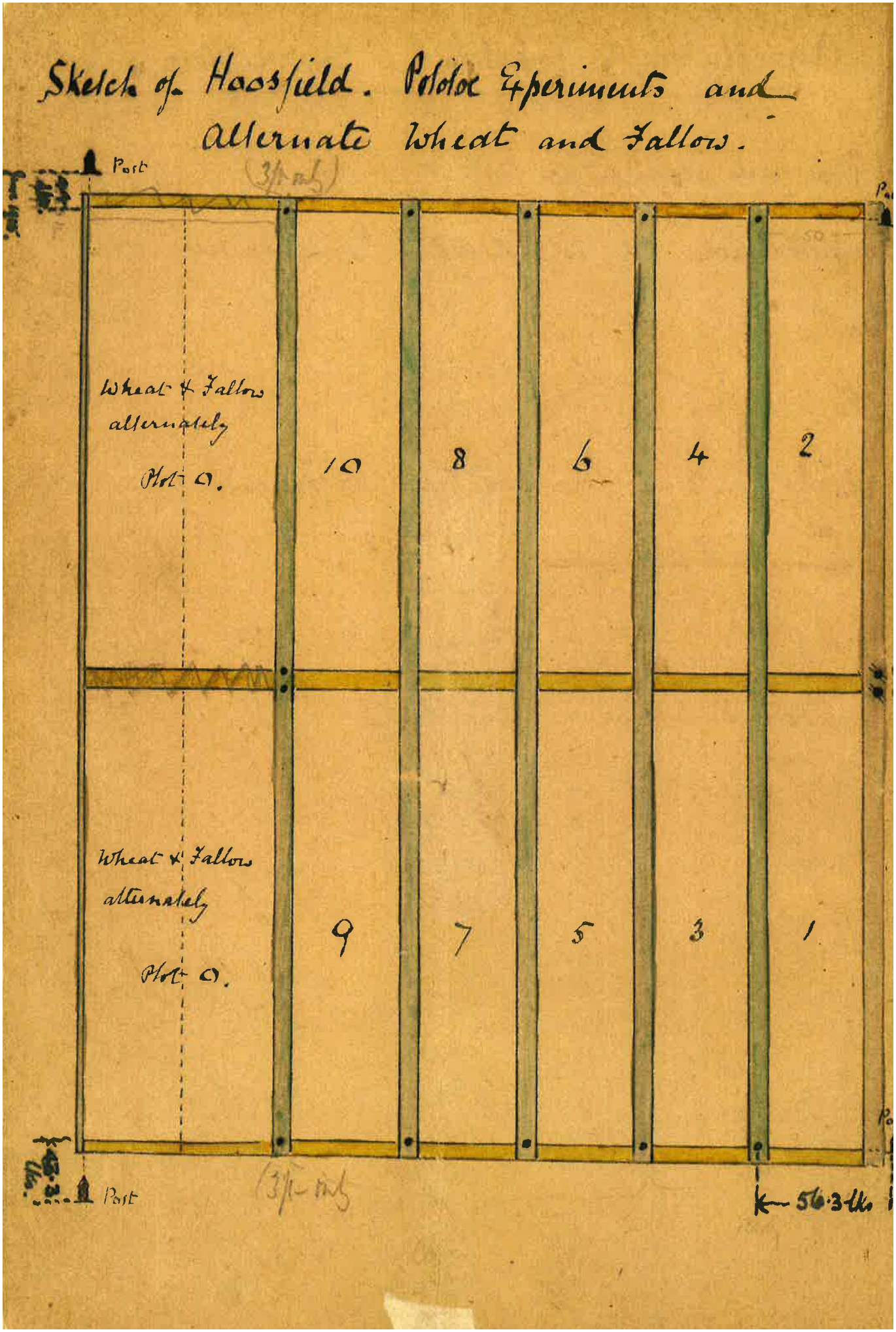
First adopted for Swedes of 1904

Complete Manure Plots 1 & 2

Mineral Manure Plots 3 & 4

Unmanured Plots 5 & 6

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Hoosfield Sketch of Potatoe & Alternate Wheat & Fallow Land

Plan first adopted for the Crops of 1893.

Each plot of Potatoes is 525 × 31¾ lbs = 1/6 acre.

Each plot of Wheat or Fallow is 1050 × 47·52 lbs = 1/2 acre

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

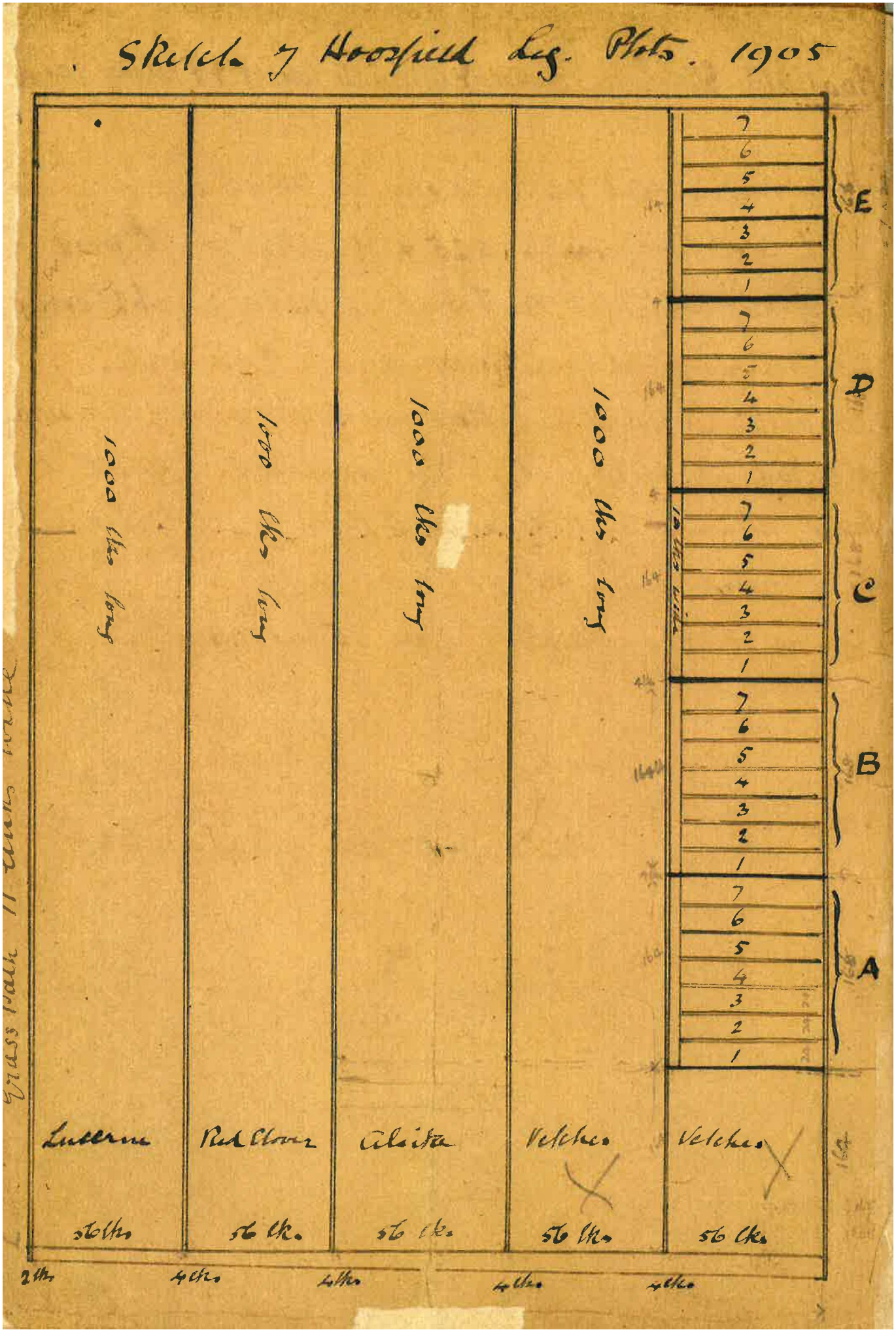
The pathways coloured Yellow are 3 feet wide. These are ploughed up each year. No manure is applied to them, although the seed is sown through. The plants are afterwards taken out.

The rows of Potatoes are 25 ins apart.

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

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Hoosfield Leguminous Experiments.

Sketch 1906 and since.

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

Divided into 5 equal divisions, exclusive of paths. 1000 x 56 = 56000 sq. lks.

Division paths 4 lks wide

Pathway at end of Small Beds 10 lks wide

Each of the Small beds exclusive of the division paths is 50 x 20 = 1000 lks

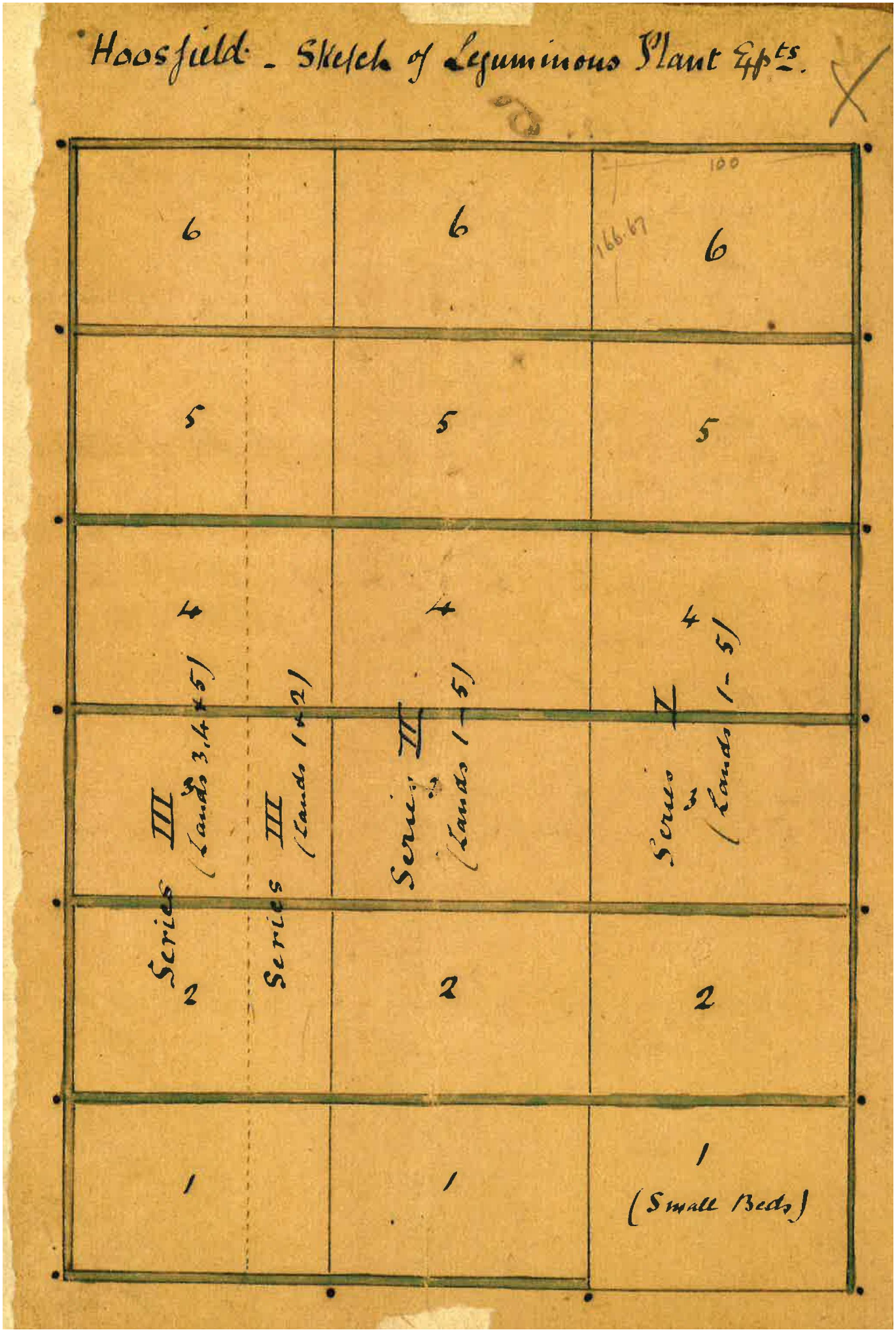
Cropping of Small Beds

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

20 x 7 = 140
6 x 4 = 24
164

56 x 5 = 280
18
11
309

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Sketch of Leguminous Plant Expts. Description.

Plan adopted for the crop of 1893.

Each plot is 166·67 × 100 lks = 1/6 acre.

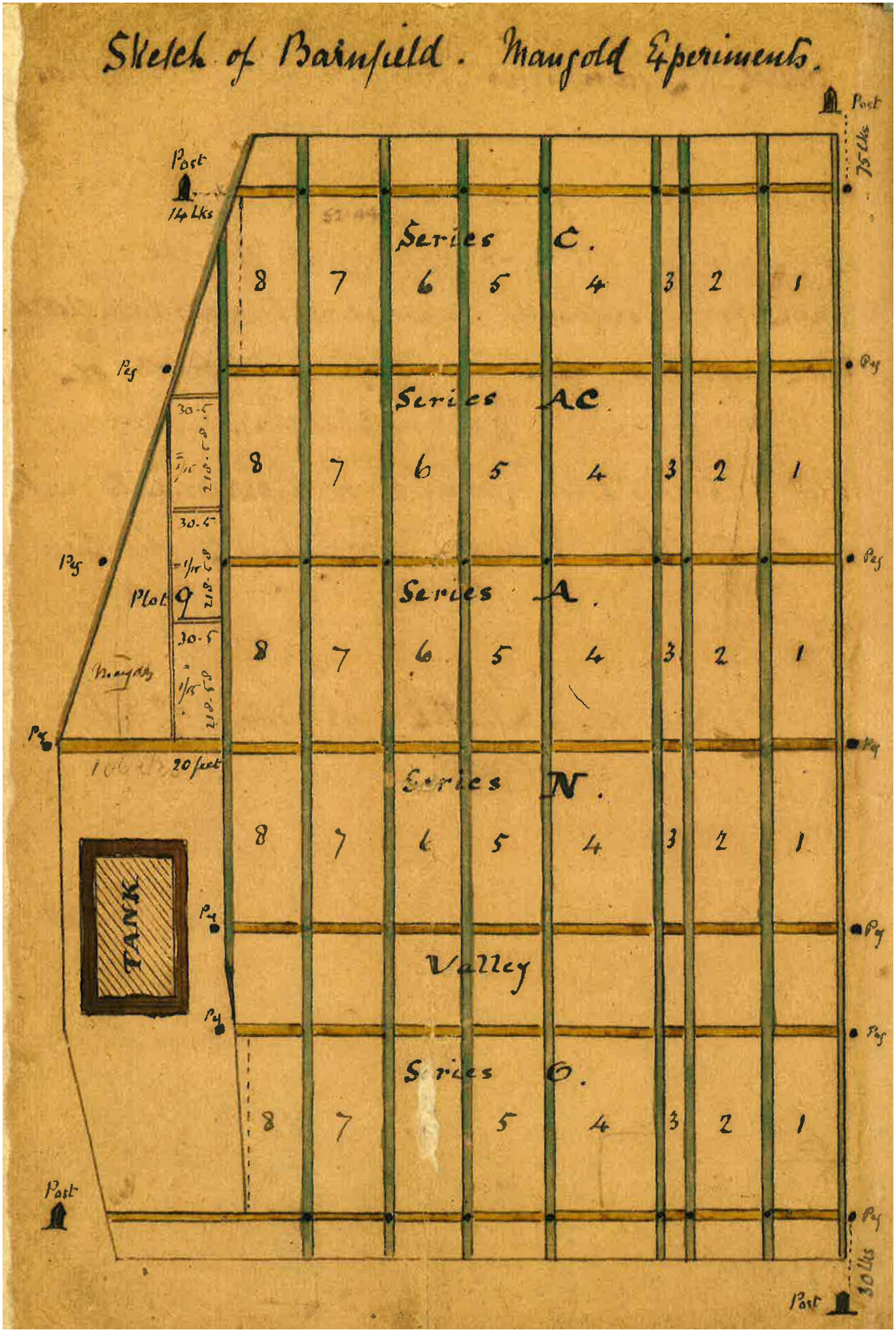
Each Series originally consisted of 5 lands each 20 lks.
(or Descriptions of Plants)

Each plot is divided into 7 equal divisions, or
ft in
12. 8½ 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 page)
1906

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Barnfield Sketch - Description.

Plan adopted for the Mangold crops of 1893.

Each plot is 278.38 links long. Valley one half = 6 links

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 ~~43~~ 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 manured only to ~~39~~ 29.324 links wide = 10947 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 Bauks is one-half the above width = 3.28 lks. wide.

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

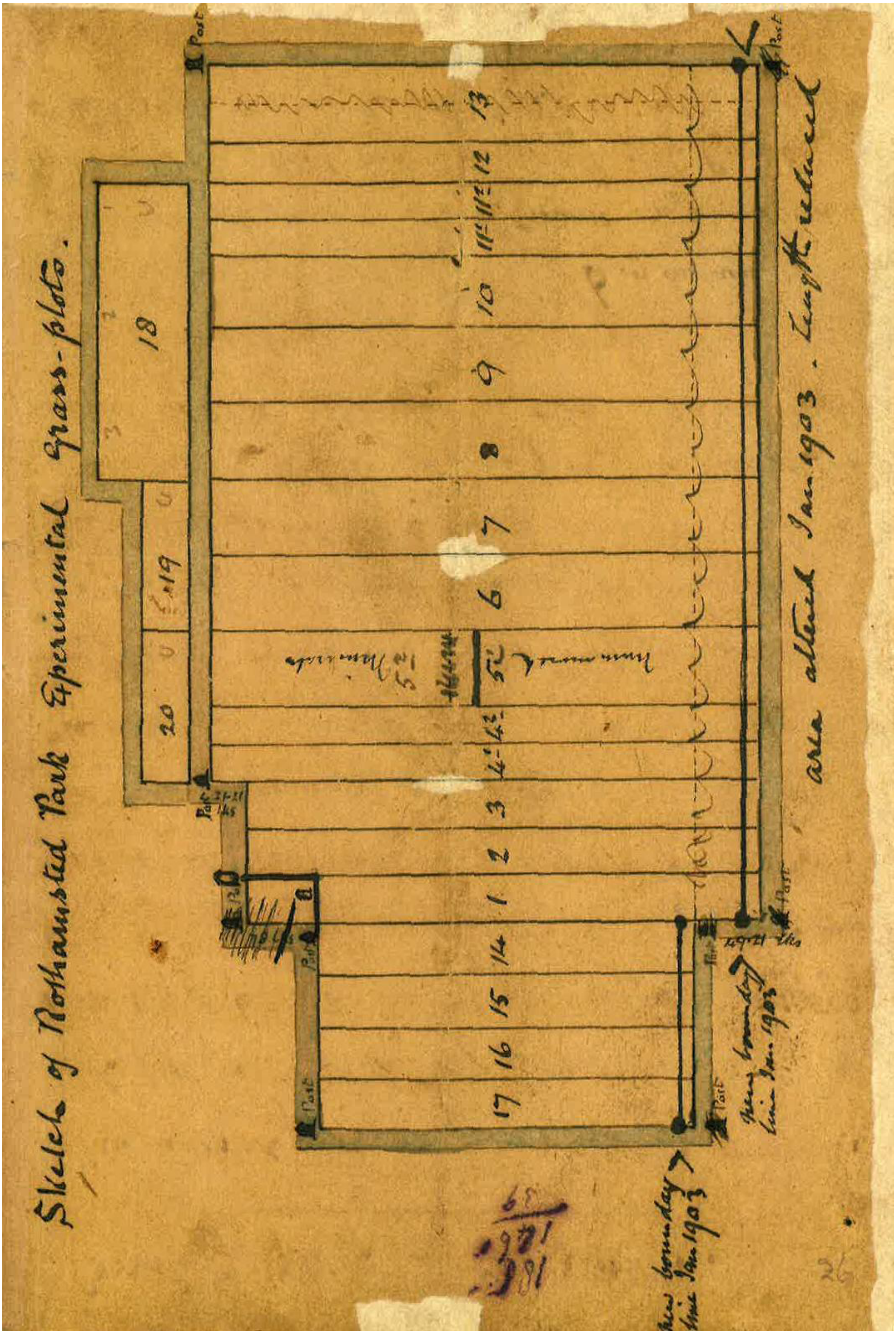
These are ploughed up each year. No manure is applied to them, although the crop is sown through. The plants being afterwards taken out.

Plot 9 contains an area of 0.46 of an acre.

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

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

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Rothamsted Park Grass plots - Sketch description.
Revised Jan 1903

Plot 1 - 293 × 66 = ·19338 acre ·24486 ✓

Plots 2, 2, 3 are each ~~378·79~~ 371 × 66 lks = ¼ acre

Plots 4¹, 4², 11¹, 11², 12 are each ~~400~~ 393 × 62·5 lks = ·24563 ✓ ¼ acre

Plots 5 to 10 and 13 are each ~~400~~ 393 × 125 lks = ·49125 ✓ ½ acre.

Plots 14, 15, 16, 17 are each ~~251·52~~ 244 × 66 lks = ·16104 ✓ ⅙ acre

Plot 18 is 500 × 100 lks ✓ = ½ acre

Plots 19, 20 are each 250 × 50 ✓ lks = ⅛ acre.

The pathway between plots 4¹ to 11² and 18 to 20 is Six feet wide:

Plot 5 - ~~198·5 × 125 = ·24813 acre, each half reduced exactly~~ 198·5 × 125 halved exactly, each half ·24563 lks.

~~putting that is 49·21 × 66 = ·16211 acre.~~

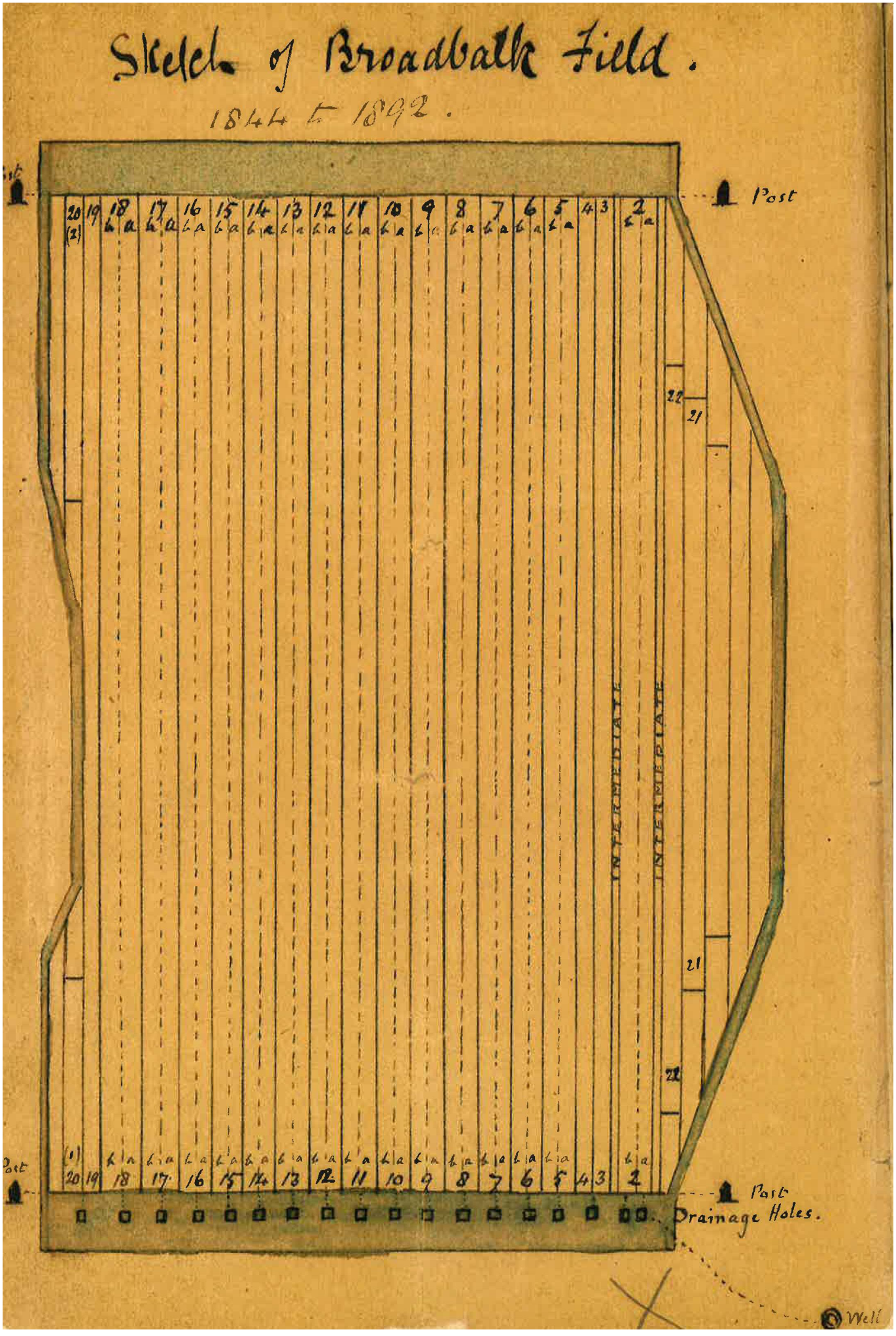
Plot 1 reduced in length because of influence of large oak tree. July 1905. For the second crop of 1905 the full area of ·24486 was again taken. Early in 1906 however the dividing posts at the south end of each plot were moved from the east to the west side reducing the length by 78 links and making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

Plot 1 Plot 6

Plot 2-3 18 links 1 ½ lks 12 ½ lks

½ ½

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Broadbalk Sketch - Description.

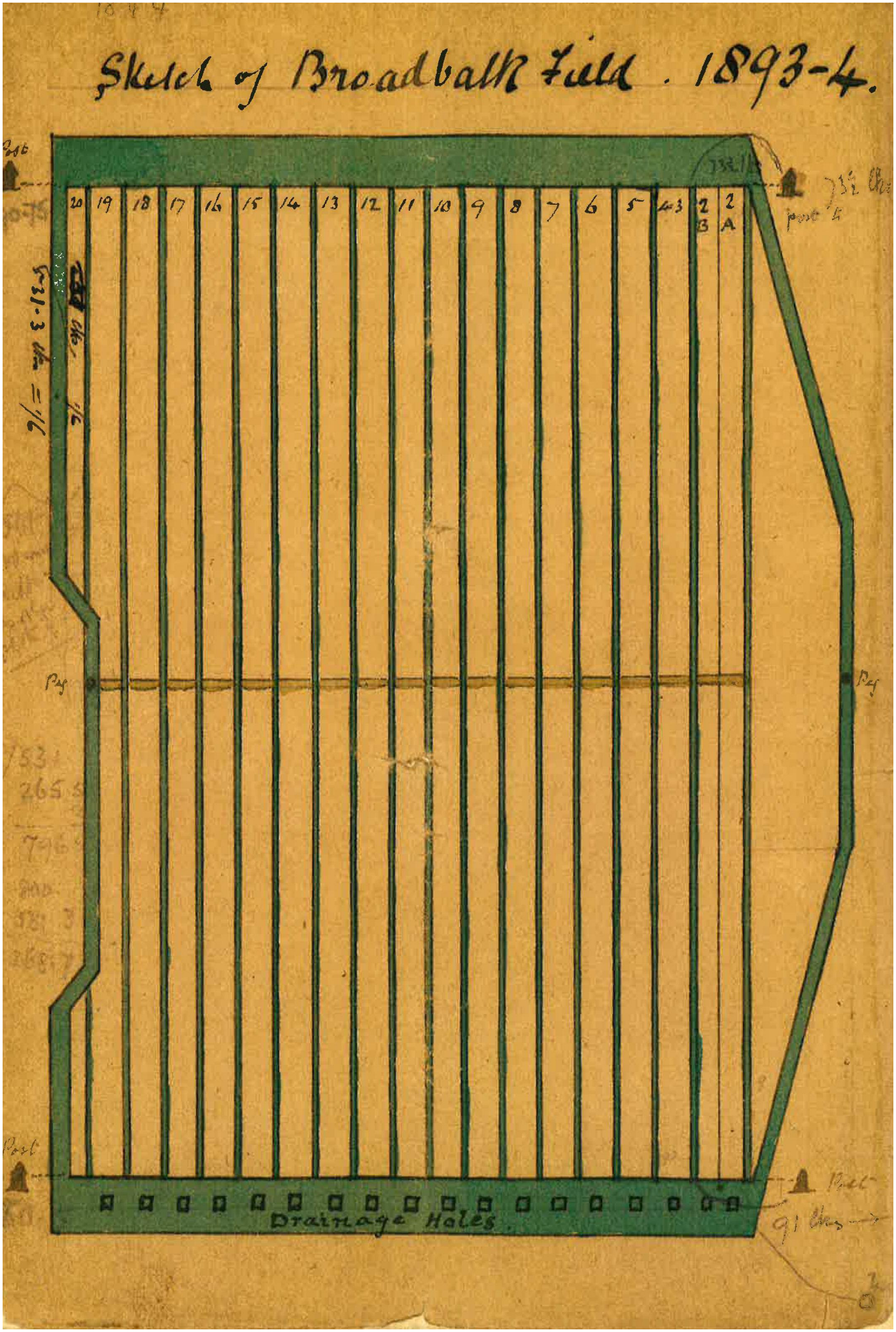
Each plot 'a' and 'B' is 1600 links long by 18.75 links wide = 3/10 acre

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

Plot 20 a (Rape Cake) is taken 200 × 18.75 = 375/4356 acre

Plot 20 z (Unmanured) is taken 667 × 18.75 = 1/8 acre

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Broadbalk Field. Description.

Double Lands, reducing the area from 6/10 to ½ acre, by making side paths & cross-path.

(less cross-paths in centre of field?)

Total length 159¼ links. } = ½ acre
" width 31·37 "

width of side paths 6·13 lks. = 4ft-0½in (= 20·7 ft (20·8))
" " centre cross-path 6 lks.

lks ins
Plots 2a & 2b each 18·82 lks = 18·6½ = 3/10

The original "Intermediate" 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 (Unmanured) was taken from Knott Wood Butts (Top of field only).

width as the other plots 31·37 lks × 531·3 = ·166 acre

31·37 / 15·60

Measured from post to Bank peg which is 3·06 links from Edge of 3-4 and 9·37 links from Edge of 2B (from N.E. corner)