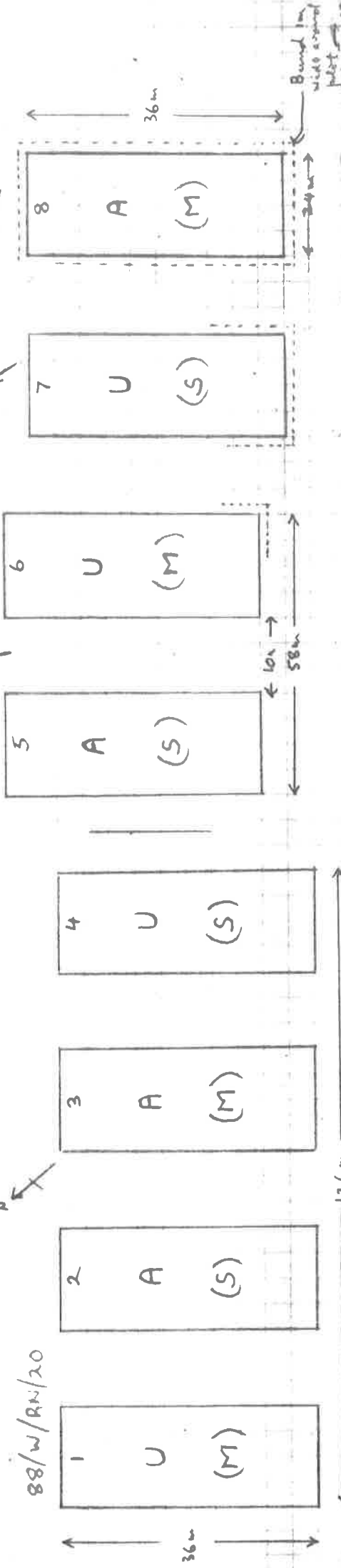


Woburn Erona: Reference Experiments 1st Year S barley 1988 Egt Hill II/III

Sponsors: R. Webster, R.P.C. Morgan, R.T. Dickson, P.D.R. Styles



The relationship between plots is not as shown above but as indicated by the North points:-

TREATMENTS

Direction of all cultivation and drilling

- A Across the plots
- U Up & down plots

Cultivation practice, applied to full crop

- (M) Minimum tillage with retention of crop residues (chopped straw)
- (S) Standard practice, no residue retention

VARIETY

Klasson, sown at 150 kg/ha on 30 March

BASAL MANURING per ha

'Nitram' at 340 kg on 5 May

DESIGN

2 blocks of 2x2

PLOT AREA

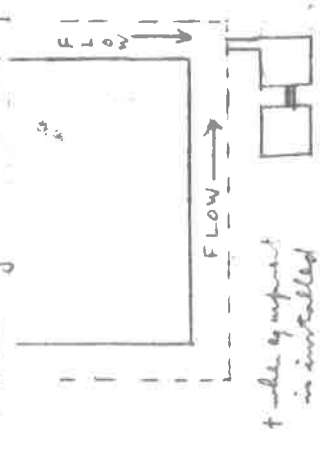
$24m \times 36m = 0.0864ha$

Tanks will be pumped out to a main gun or a tanker

Pumping & cleaning tanks to be done by Silsol & partners

All other operations by Farm

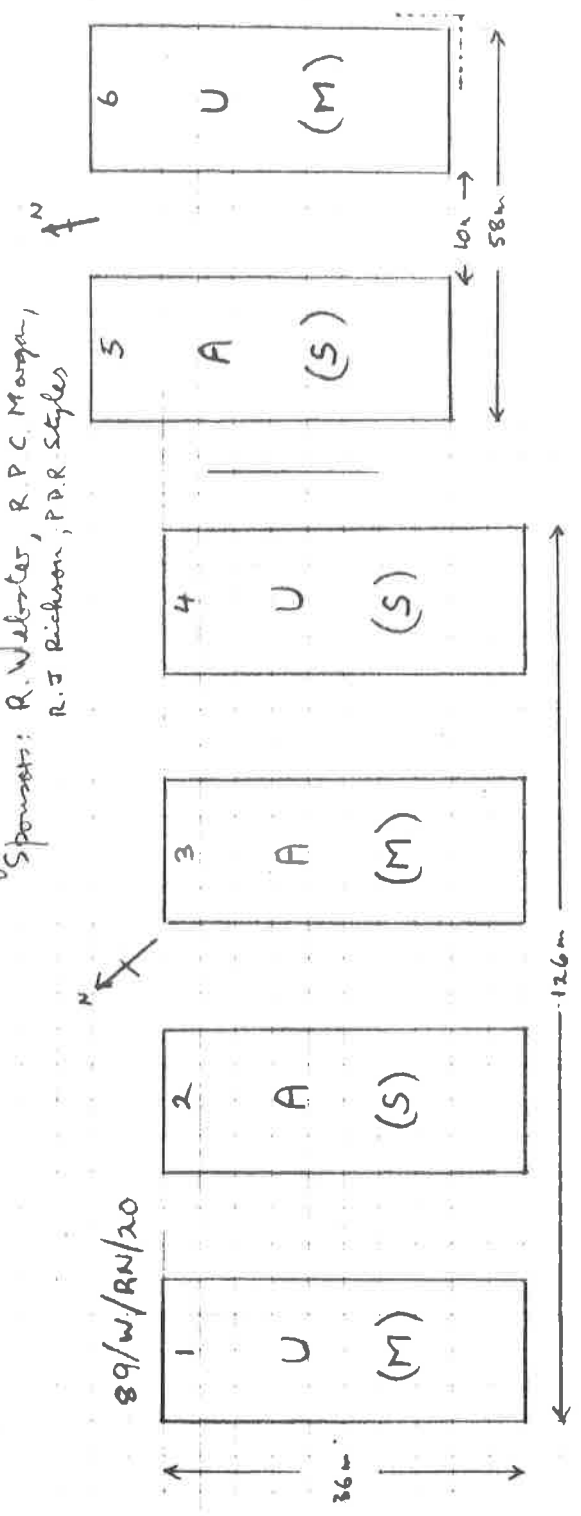
Bunds are 10-30cm high, 1m wide, erected after sowing, tractor-traversable, graded on the down slope and 1:300 across the slope to a collecting outlet emptying into a tank:-



Woburn Erosion Reference Experiment 2nd Year Potatoes

Sponsors: R. Webster, R.P.C. Morgan, R.J. Dickson, P.P.R. Styles

89/W/RN/20



TREATMENTS

Direction of all cultivation and planting

- A Across the plots
- U Up & down plots

Cultivation practice

- (M) Minimum tillage: 1988 barley straw chopped & tined into 10cm. 1989 potato haulm pulverized & retained
- (S) Standard practice: 1988 barley straw baled & removed. 1989 potato haulm removed.

VARIETY

Estima, planted 10 May
BASAL MANURING per ha
 (15:13:20) at 1800 kg

DESIGN

2 blocks of 2x2

PLOT AREA

$24m \times 36m = 0.0864 \text{ ha}$

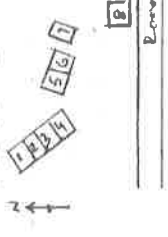
Tanks will be pumped out to a rain gun or a tanker

Pumping & cleaning tanks to be done by Silco & partners

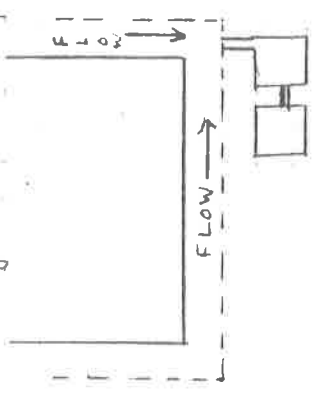
All other operations by Farm

Basal manure at 5 kg to seedbed

The relationship between plots is not as shown above but as indicated by the North points:-



Bunds are 10-30cm high, 1m wide, sowed after planting, tractor-traversable, graded on the down slope and 1:200 across the slope to a collecting outlet emptying into a tank:-



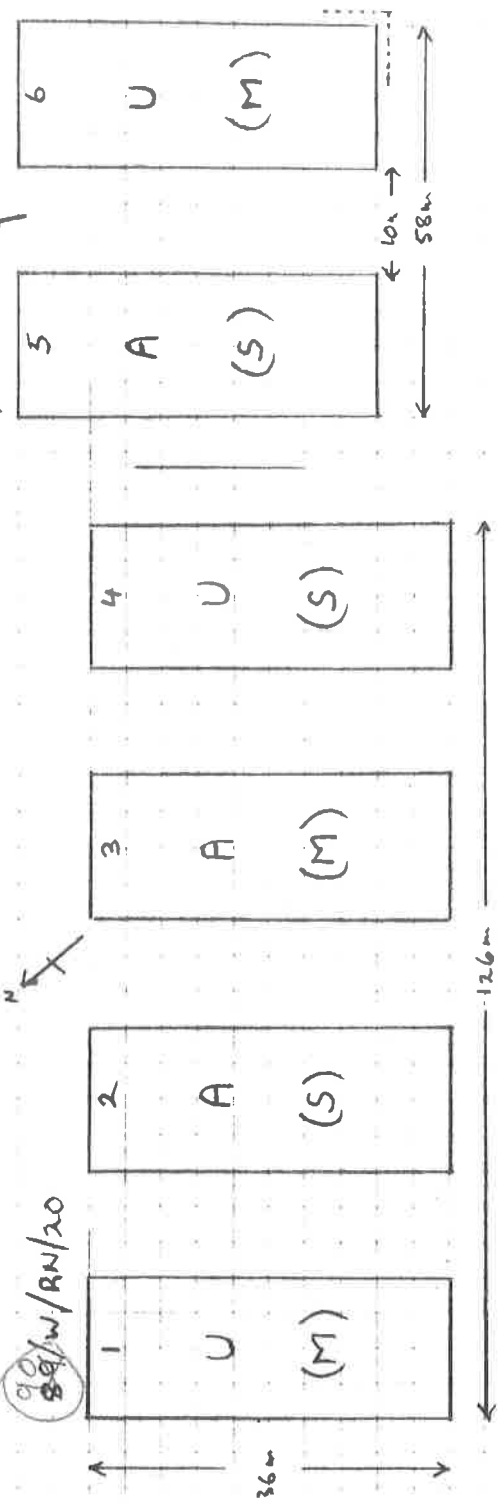
206
90
1989

Egt. Hill II/III

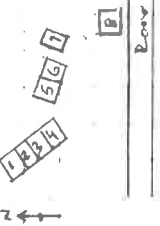
Woburn Erosion Reference Experiment 3rd Year W. Wheat

Sponsors: R. Webster, R.P.C. Morgan,
R.J. Rickson, P.R. Styles

90 W/RN/20



The relationships between plots is not as shown above but as indicated by the North points:-



TREATMENTS

Direction of all cultivation and planting

- A Across the plots
- U Up & down plots

DESIGN

2 blocks of 2x2

PLOT AREA

$24m \times 36m = 0.0864 \text{ ha}$

Cultivation practices

- (M) Minimum tillage: 1989 potato haulm pulverized & retained
1990 wheat straw chopped & rined in to 10cm
- (S) Standard practice: 1989 potato haulm removed
1990 wheat straw baled & removed

Tanks will be pumped out to a rain gun or a tanker
Pumping & cleaning tanks to be done by Silsol & partners

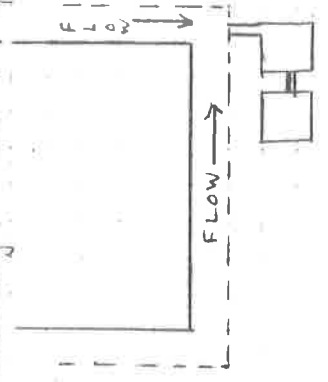
VARIETY

Mercia sown @

Kg/ha, Date:

BASAL MANURING

S.F.P.



Bunds are 10-30cm high, 1m wide, sited after sowing, tractor traversible, graded on the down slope and 1:200 across the slope to a collecting outlet emptying into a tank:-

All other operations by Farm

7.9.89

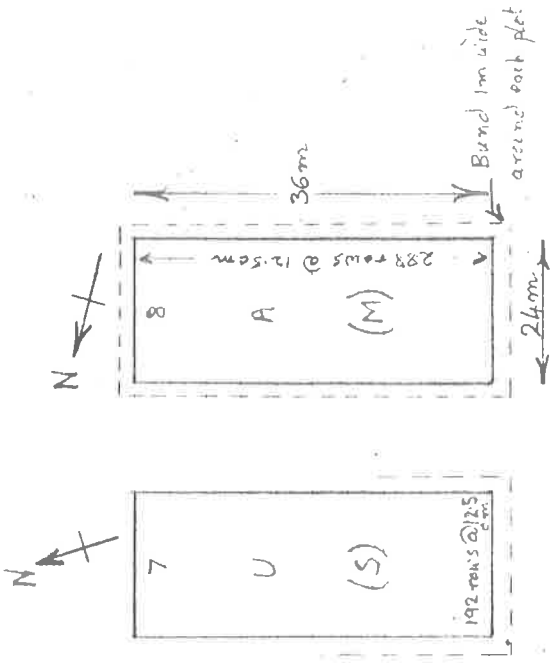
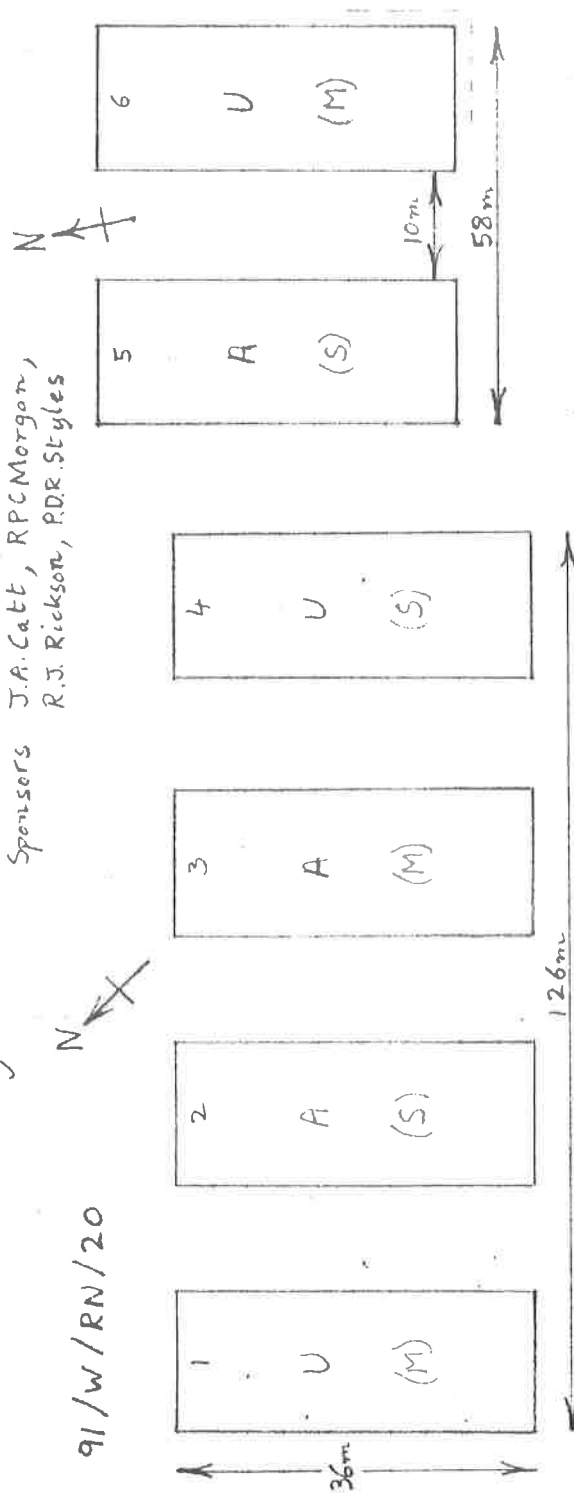
WOBURN W. barley GREAT HILL I/III 1991

4th Year

EROSION REFERENCE EXPERIMENT

Sponsors J.A. Catt, RPC Morgan, R.J. Rickson, PDR Styles

91/W/RN/20



TREATMENTS

Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots.

Cultivation practices

- M) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 vical straw chipped & tined to 16cm
- : 1991 barley straw

- S) Standard practice : 1989 potato haulm removed
- : 1990 wheat straw baled & removed
- : 1991 barley straw

VARIETY

Magie *iso h/m* 22 SEP 1990

PLANTING

SEP ~~1989~~

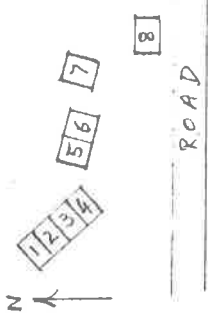
DESIGN

2 blocks of 2x2

PLOT AREA 24m x 36m = 0.864ha

- Tanks will be pumped out to a rain gun or a tanker
- Pumping & cleaning tanks to be done by Silsoe sponsors
- ALL other operations by Farm

The relationship between plots is not as shown above but as indicated by the North prints



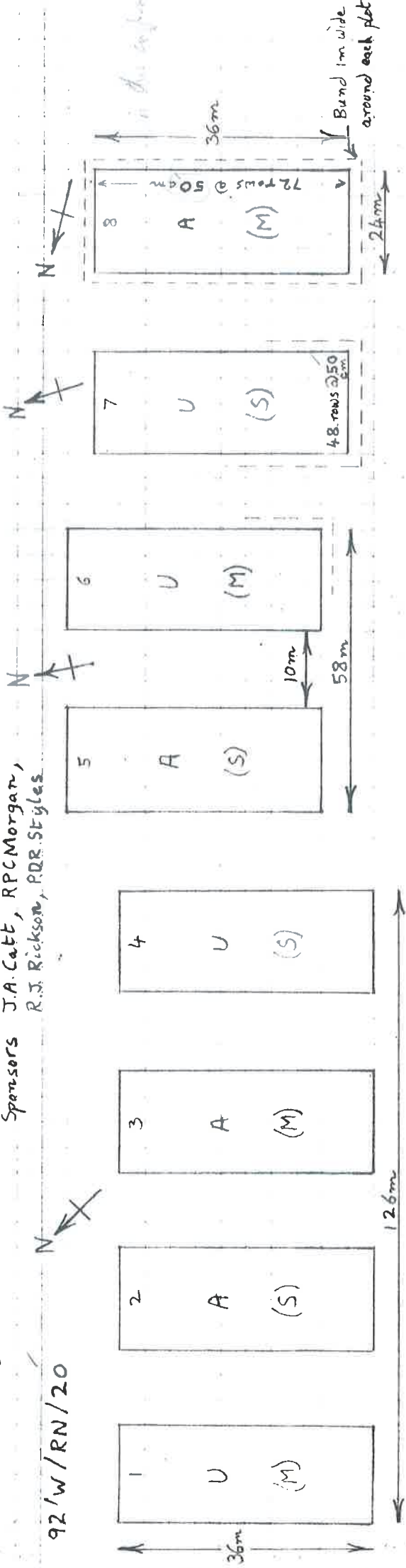
COMPLETE & RETURN

TO F.E.S.

WOBBURN Sugar beet EROSION REFERENCE EXPERIMENT 5th Year GREAT HILL II/III 1992

Sponsors J.A. Catt, RPC Morgan, R.J. Rickson, RDR. Styles

92'W/RN/20



TREATMENTS

Direction of all cultivations and planting
 A Across the plots
 U Up and down the plots.

Cultivation practice

- M) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 wheat straw chopped & tined to 10cm
- : 1991 barley straw
- : 1992 s. beet tops retained
- S) Standard practice: 1989 potato haulm removed
- : 1990 wheat straw baled & removed
- : 1991 barley straw
- : 1992 s. beet tops removed

VARIETY

.. .. . sowmat on

BASAL MANURING

N in spring

DESIGN

2 blocks of 2x2

PLOT AREA

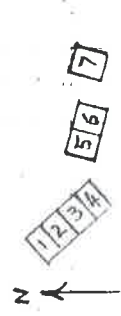
$24m \times 36m = 0.864ha$

|| Tanks will be pumped out to a rain gun or a tanker.

|| Pumping & cleaning tanks to be done by Silsoe sponsors

|| ALL other operations by farm

The relationship between plots is not as shown above but as indicated by the North points



[8]

ROAD

ORDER OF OPERATIONS 1991/1992

- Mid-November (S) plots ploughed & pressed (M) plots uncultivated
- Mid-February (S) plots cultivated to seedbed (M) plots ploughed & cultivated to seedbed

CHECKED

DATE 9.10.91

WOBURN W. wheat

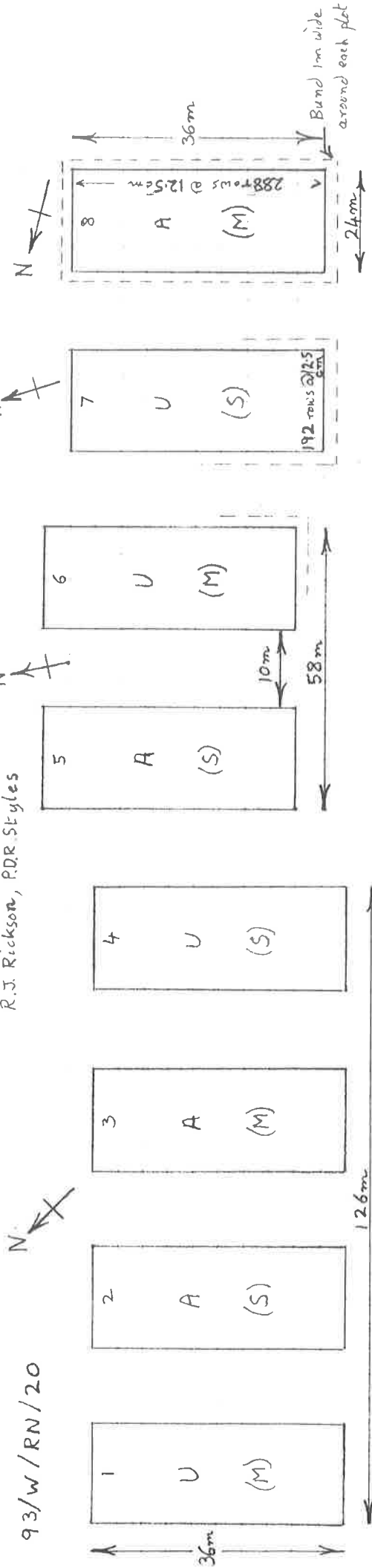
EROSION REFERENCE EXPERIMENT

6th Year

GREAT HILL II/III 1993

Sponsors J.A. Catt, RPC Morgan,
R.J. Rickson, PDR Styles

93/W/RN/20



TREATMENTS

Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots.

Cultivation practice

- M) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 wheat straw chopped & tined to 10cm
- : 1991 barley straw
- : 1992 s. b. tops retained
- : 1993 v. wheat straw chopped & tined to 10cm
- S) Standard practice : 1989 potato haulm removed
- : 1990 wheat straw baled & removed
- : 1991 barley straw
- : 1992 s. b. tops removed
- : 1993 wheat straw baled & removed

VARIETY ~~Maria~~ sown at 1gha on
DISAL MANURE NPK Na Mg at 5FP.

DESIGN

2 blocks of 2 x 2

PLOT AREA

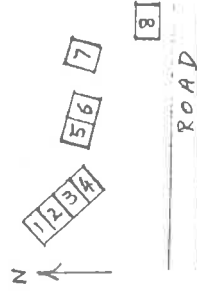
$24m \times 36m = 0.864ha$

Tanks will be pumped out to a rain gun or a tanker

Pumping & cleaning tanks to be done by Silsoe sponsors

ALL other operations by Farm

The relationship between plots is not as shown above but as indicated by the North points:-



COMPLETE & RETURN

TO F. E. S.

Soil sown @ 166 kg HA
Dated 26 Jan 1993

2001 JAN 14

WOBURN

W. barley

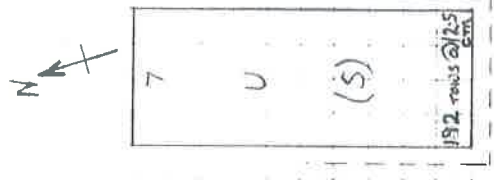
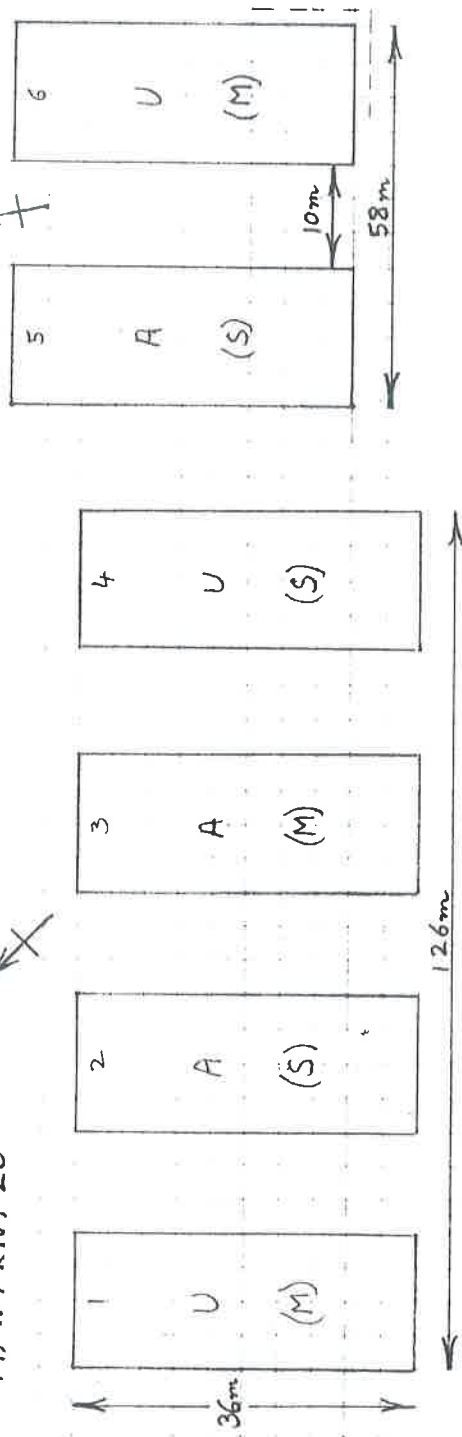
EROSION REFERENCE EXPERIMENT

GREAT HILL II/III 1994

7th Year

Sponsors J.A. Catt, RPC Morgan,
R.J. Rickson, PDR Styles

94/W/RN/20



Bund 1m wide around each plot

TREATMENTS

Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots.

Cultivation practice

- (M) Minimum Tillage: 1989 potato haulm pulverized & retained
- : 1990 wheat straw chopped & tined to 10cm
- : 1991 barley straw
- : 1992 s-beet tops retained
- : 1993 & 4 straw chopped & tined to 10cm
- (S) Standard practice: 1989 potato haulm removed
- : 1990 wheat straw baled & removed
- : 1991 barley straw
- : 1992 s-beet tops removed
- : 1993 & 4 straw baled & removed

VARIETY

Puffin sown at 1 kg ha⁻¹ on N P K Na Mg at SFP.

DESIGN

2 blocks of 2x2

PLOT AREA

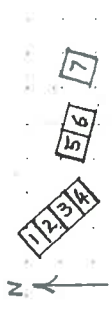
24m x 36m = 0.864 ha

Tanks will be pumped out to a rain gun or a tanker

Pumping & cleaning tanks to be done by Silsoe sponsors

ALL other operations by Farm

The relationship between plots is not as shown above but as indicated by the North points:



ROAD

CHECKED ATM

DATE 17 8 93

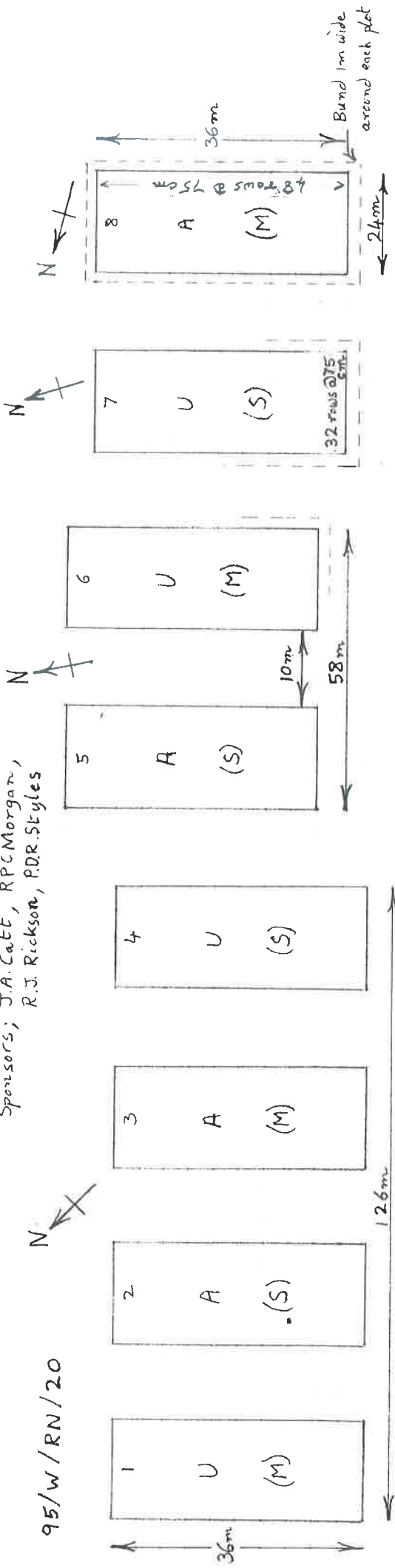
WOBURN Potatoes

EROSION REFERENCE EXPERIMENT
Sponsors; J.A. Catt, RPC Morgan,
R.J. Rickson, PDR. Styles

8th Year

GREAT HILL II/III 1995

95/W/RN/20



TREATMENTS

Direction of all cultivations and planting
A Across the plots
U Up and down the plots.

Cultivation Practice

- (M) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 & 1 straw chopped & retained to 10cm
- : 1992, 3, & 4 straw chopped & retained to 10cm
- : 1995, 00 1989
- (S) Standard practice: 1989 potato haulm removed
- : 1990 & 1 straw baled & removed
- : 1992 s. beet tops removed
- : 1993 & 4 straw, baled & removed
- : 1995 00 1989

VARIETY

Basal Fertiliser: NPK Na Mg at SFP.

DESIGN

2 blocks of 2x2

PLOT AREA

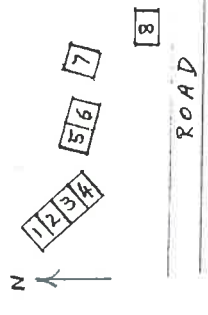
$24m \times 36m = 0.0864ha$

Tanks will be pumped out to a rain gun or a tanker

Pumping & cleaning tanks to be done by Farm

All other operations by Farm

The relationship between plots is not as shown above but as indicated by the North points:



COMPLETE & RETURN

TO F. E. S.

Estima, 35-45 mm seed, planted at 22cm spacing in 75 cm rows on 12th April 1995.

WOBURN W. wheat

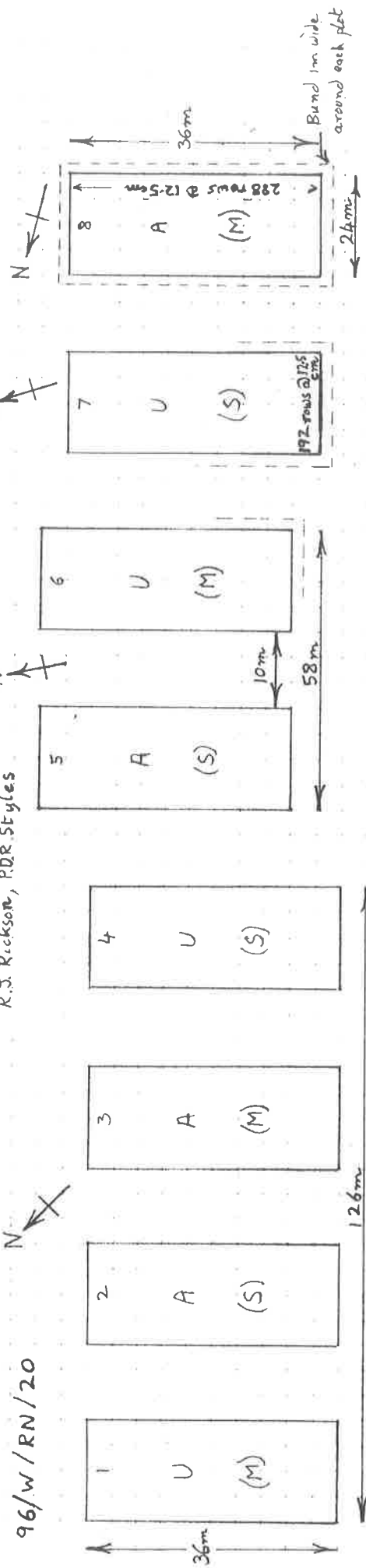
EROSION REFERENCE EXPERIMENT

9th Year

GREAT HILL II/III 1996

Sponsors; J.A. Catt, RPC Morgan,
R.J. Rickson, PDR Styles

96/W/RN/20



TREATMENTS

Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots.

Cultivation practice

- (M) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 & 1 straw chopped & tined to 10cm
- : 1992 S: beet tops retained
- : 1993, 4 & 6 straws chopped & tined to 10cm
- : 1995: as 1989
- (S) Standard practice: 1989 potato haulm removed
- : 1990 & 1 straw baled & removed
- : 1992 S: beet tops removed
- : 1993, 4 & 6 straw baled & removed
- : 1995 as 1989

VARIETY Hereward dressed Panocline @ 375 seeds/m² on 9 Oct 1995
BASAL MANURE NPK as S.F.P.

DESIGN

2 blocks of 2 x 2

PLOT AREA

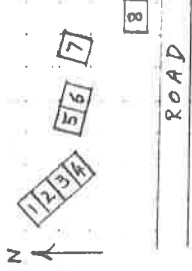
$24m \times 36m = 0.0864ha$

|| Tanks will be pumped out
|| to a rain gun or a tanker

|| Pumping & cleaning tanks to
|| be done by Farm

|| All other operations by Farm

The relationship between plots is not as shown above but as indicated by the North points:



WOBURN W. barley

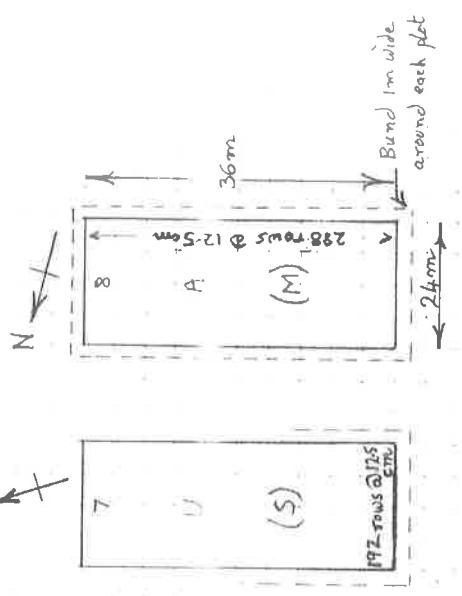
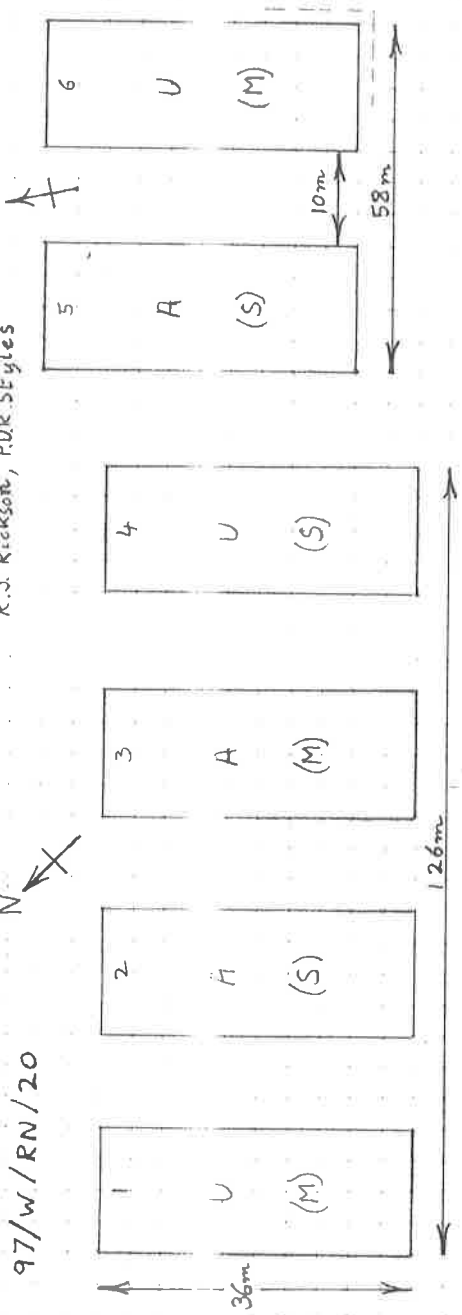
EROSION REFERENCE EXPERIMENT
Sponsors; J.A. Catt, RPC Morgan,
R.J. Rickson, RDR Styles

10th Year

GREAT HILL II/III

1997

97/W/RN/20



TREATMENTS

Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots.

Cultivation practice

- (M) Minimum tillage: 1989 potato haulm pulverized & retained
- : 1990 & 1 straw chopped & tined to 10cm
- : 1992 5: beet tops retained
- : 1993, 4, 6, 7 straw chopped & tined to 10cm
- : 1995: do 1989
- (S) Standard practice: 1989 potato haulm removed
- : 1990 & 1 straw baled & removed
- : 1992 5: beet tops removed
- : 1993, 4, 6, 7 straw baled & removed
- : 1995: do 1989

VARIETY

BRISAL MANURINE

Gleam dressed Raxils sown @ 400 seeds/m² on 3 Oct 1996
NPK as S.F.P.

DESIGN

2 blocks of 2x2

PLOT AREA

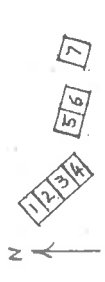
$24m \times 36m = 0.0864ha$

Tanks will be pumped out
to a rain gun or a tanker

Pumping & cleaning tanks to
be done by Farm

All other operations by Farm

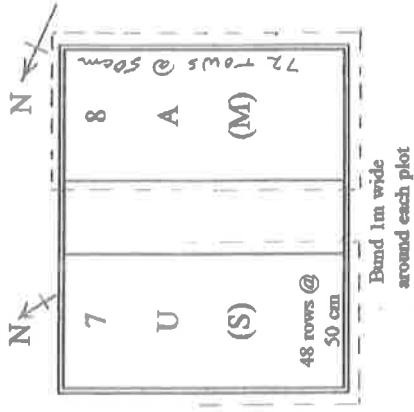
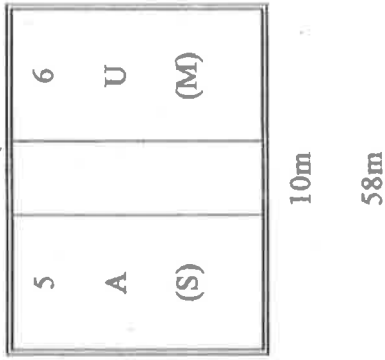
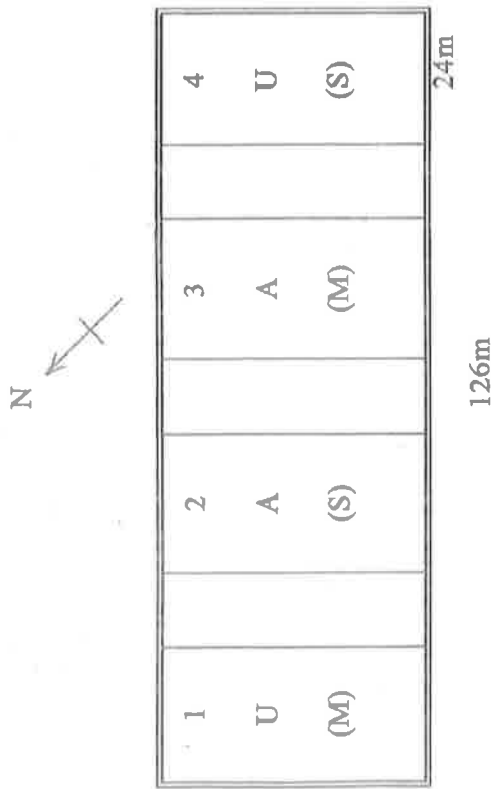
The relationship between plots is not as shown above but as indicated by the North points:-



Fodder beet

11th year

Sponsors: A.M. Hunt



Treatments

Direction of all cultivations and planting

- A Across the plots
- U Up and down the plots

Cultivation practice

- (M) Minimum tillage : 1989 & 95 potato haulm pulverized and retained
- : 1990,1,3,4,6 & 7 straw chopped and tined to 10 cm
- : 1992 & 8 sugar beet tops retained
- (S) Standard practice : 1989 & 95 potato haulm removed
- : 1990,1,3,4,6 & 7 straw removed
- : 1992 & 8 sugar beet tops removed

Variety

Nestor dressed TM1D and Gaucho sown at 10 seeds/m² on 19 March 1998

Basal manuring
NPK and Na at sfp

Design

2 blocks of 2 x 2

Plot area

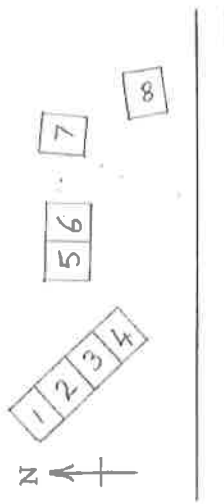
24 m x 36 m = 0.0864 ha

// Tanks will be pumped out to a rain gun or a tanker

// Pumping and cleaning tanks to be done by Farm

// All operations by Farm

The relationship between plots is not as shown above but as indicated by the North points



Order of operations 1997/8

Mid-November : (S) plots ploughed and pressed

(M) plots uncultivated

Mid-February: (S) plots cultivated to seedbed

(M) plots ploughed and cultivated to seedbed