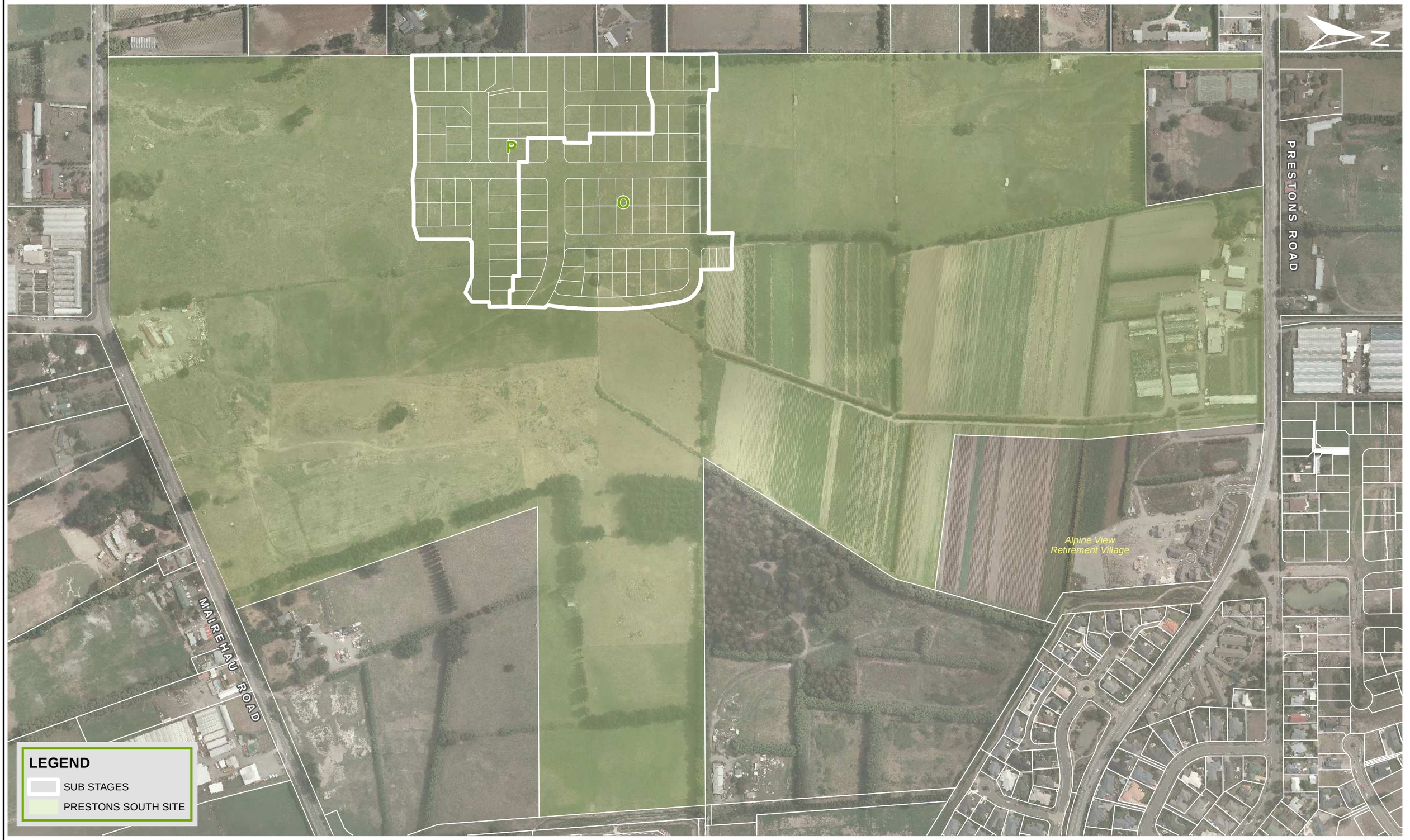
Appendix A
Figures



NOTES
- PROPERTY DATA FROM LINZ
- AERIAL IMAGE FROM CCC POST 2011 EQ

aurecon
www.aurecongroup.com

CLIENT: CDL LAND NEW ZEALAND LIMITED

REV	DATE	REVISION DETAILS	APPROVED
A	04.16	ISSUE	T.BROWNE

DRAWN	DESIGNED
R.Dawson	J.Muirson

CHECKED: J.Kupec

APPROVED: DATE T. Browne *April 2016*

PROJECT: PRESTONS SOUTH STAGES 1O & 1P

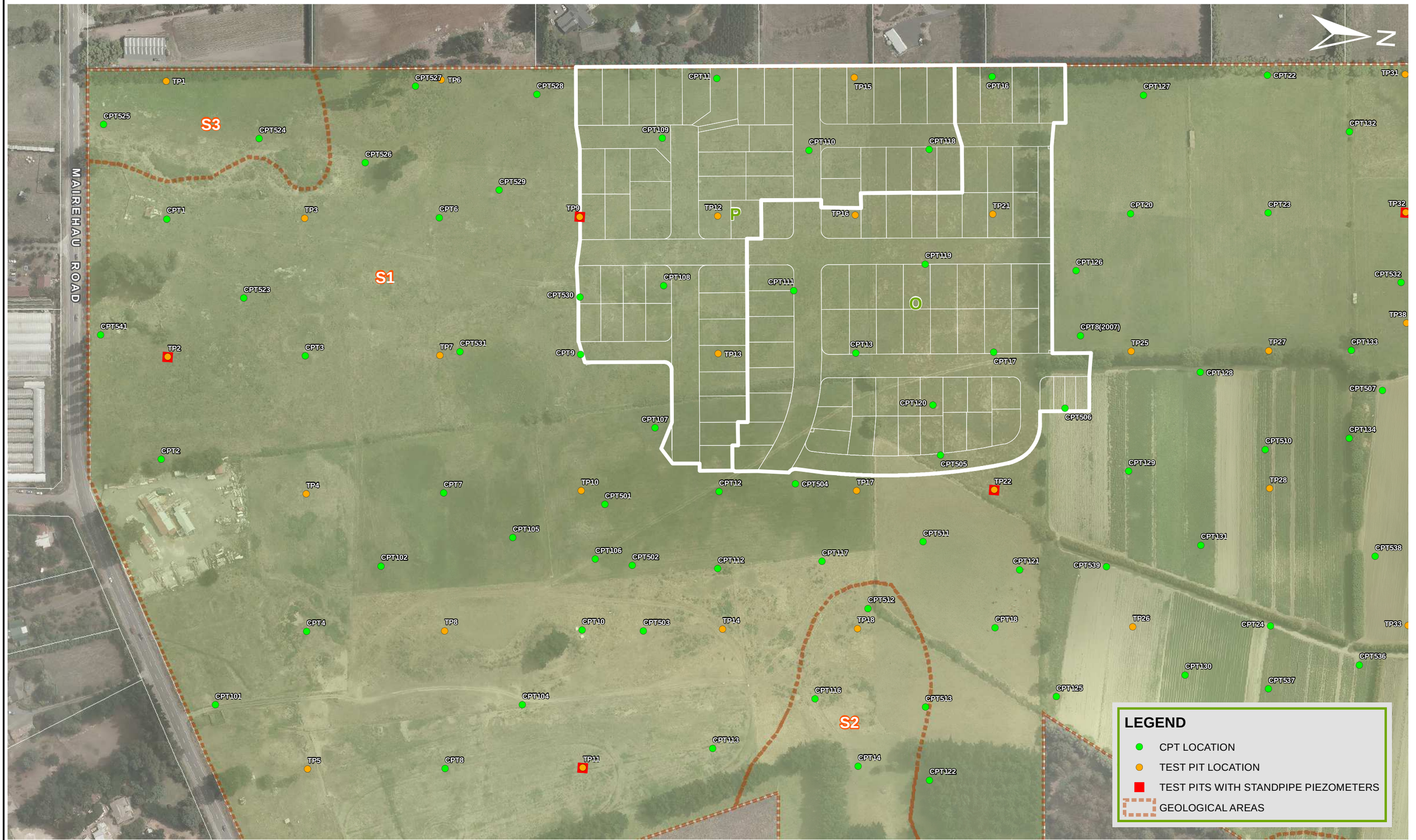
TITLE: SITE LOCATION PLAN

PROJECT No.: 235361

SCALE: AS SHOWN | SIZE: A3

DRAWING No.: FIG 1 | REV: A

Path: P:\223488\GIS\MXD\geotech figs\detailed design\SOUTH STAGE 1 O AND P COMP APR 2016\FIG 1 SITE.mxd



NOTES - PROPERTY DATA FROM LINZ
- AERIAL IMAGE FROM CCC POST 2011 EQ

aurecon
www.aurecongroup.com

CLIENT: CDL LAND NEW ZEALAND LIMITED

REV	DATE	REVISION DETAILS	APPROVED
A	04.16	ISSUE	T.BROWNE

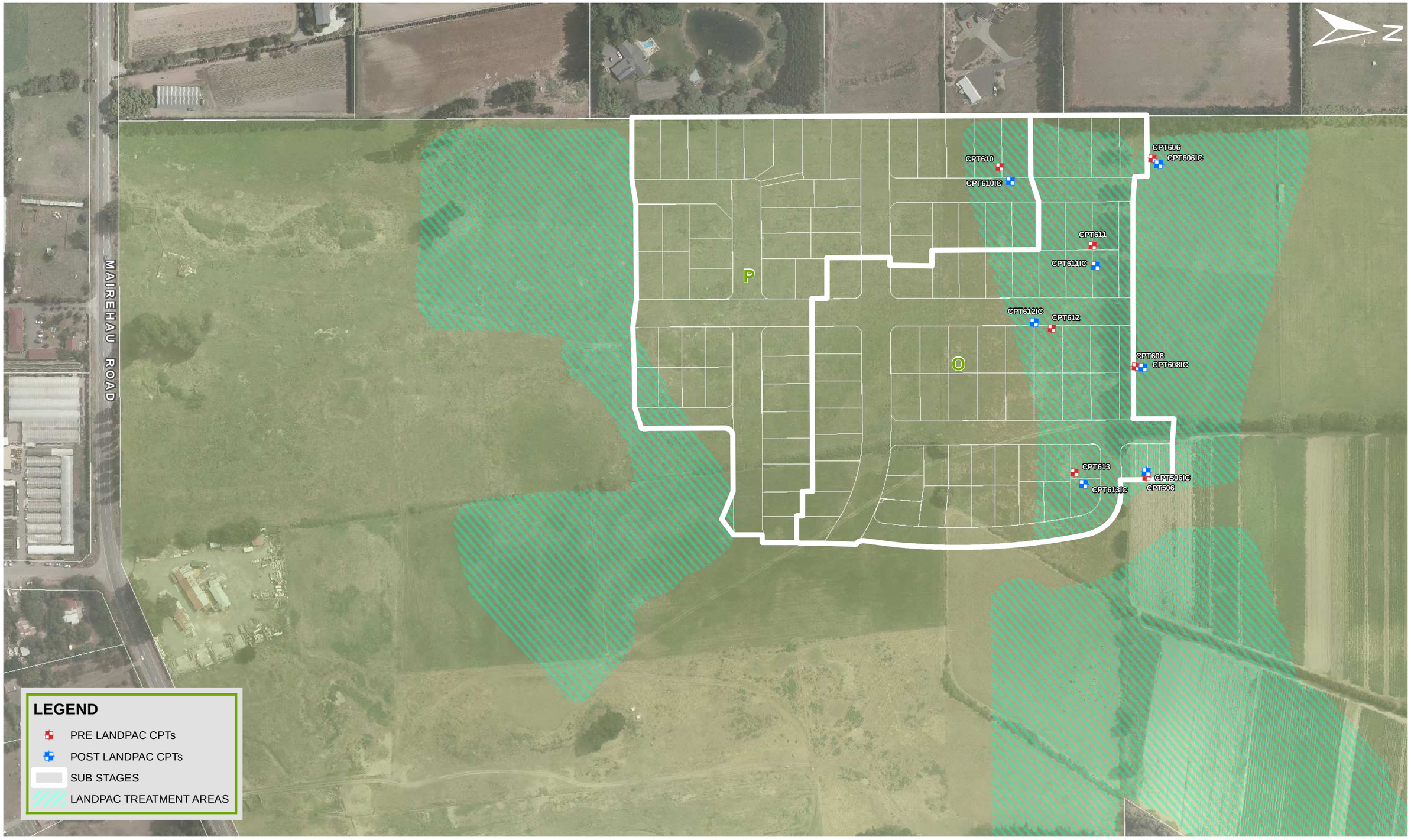
DRAWN	DESIGNED
R.Dawson	J.Muirson
CHECKED	
J.Kupec	
APPROVED	
DATE	
T. Browne	April 2016

PROJECT: PRESTONS SOUTH STAGES 1O & 1P

TITLE: PREVIOUS INVESTIGATIONS

PROJECT No.	
235361	
SCALE	SIZE
AS SHOWN	A3
DRAWING No.	REV
FIG 2	A

Path: P:\223488\GIS\MXD\geotech figs\detailed design\SOUTH STAGE 1 O AND P COMP APR 2016\FIG 2 PREVIOUS INVESTIGATIONS.mxd



NOTES - PROPERTY DATA FROM LINZ
- AERIAL IMAGE FROM CCC POST 2011 EQ

aurecon
www.aurecongroup.com

CLIENT: CDL LAND NEW ZEALAND LIMITED

REV	DATE	REVISION DETAILS	APPROVED
A	04.16	ISSUE	T.BROWNE

DRAWN	DESIGNED
R.Dawson	J.Muirson

CHECKED: J.Kupec

APPROVED: T. Browne *April 2016* (DATE)

PROJECT: PRESTONS SOUTH STAGES 1O & 1P

TITLE: GROUND IMPROVEMENT

PROJECT No.: 235361

SCALE: AS SHOWN | SIZE: A3

DRAWING No.: FIG 3 | REV: A

Path: P:\223488\GIS\MXD\geotech figs\detailed design\SOUTH STAGE 1 O AND P COMP APR 2016\FIG 3 GROUND IMPROVEMENT.mxd

NOTES - PROPERTY DATA FROM LINZ
- AERIAL IMAGE FROM CCC POST 2011 EQ

aurecon
www.aurecongroup.com

CLIENT: CDL LAND NEW ZEALAND LIMITED

REV	DATE	REVISION DETAILS	APPROVED
A	04.16	ISSUE	T.BROWNE

DRAWN	DESIGNED
R.Dawson	J.Muirson

CHECKED: J.Kupec

APPROVED: DATE: T. Browne *April 2016*

PROJECT: PRESTONS SOUTH STAGES 1O & 1P

TITLE: CUT FIL BANDING

PROJECT No.: 235361

SCALE: AS SHOWN | SIZE: A3

DRAWING No.: FIG 4 | REV: A

Path: P:\223488\GIS\MXD\geotech figs\detailed design\SOUTH STAGE 1 O AND P COMP APR 2016\FIG 4 CUT FILL BANDING.mxd

0 40 80 120 160 Meters

NOTES - PROPERTY DATA FROM LINZ
- AERIAL IMAGE FROM CCC POST 2011 EQ

aurecon
www.aurecongroup.com

CLIENT
CDL LAND NEW ZEALAND LIMITED

REV	DATE	REVISION DETAILS	APPROVED
A	04.16	ISSUE	T.BROWNE

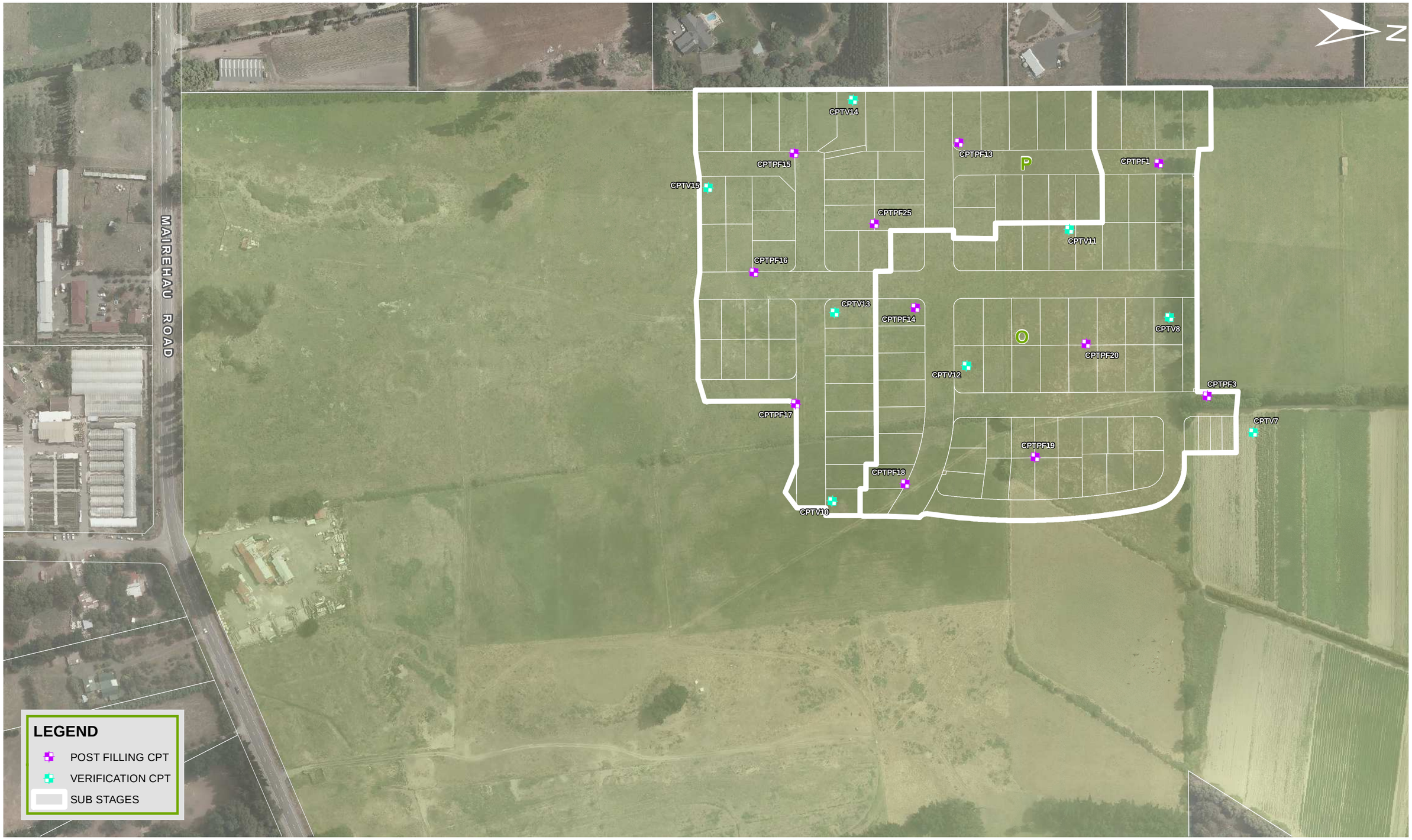
DRAWN	DESIGNED
R.Dawson	J.Muirson
CHECKED	
J.Kupec	
APPROVED	DATE
T. Browne	April 2016

PROJECT
PRESTONS SOUTH STAGES 1O & 1P

TITLE
NDM TESTING LOCATIONS

PROJECT No. 235361
SCALE AS SHOWN
SIZE A3
DRAWING No. FIG 5
REV A

Path: P:\223488\GIS\MXD\geotech figs\detailed design\SOUTH STAGE 1 O AND P COMP APR 2016\FIG 5 NDM.mxd



NOTES
- PROPERTY DATA FROM LINZ
- AERIAL IMAGE FROM CCC POST 2011 EQ

aurecon
www.aurecongroup.com

CLIENT: CDL LAND NEW ZEALAND LIMITED

REV	DATE	REVISION DETAILS	APPROVED
A	04.16	ISSUE	T.BROWNE

DRAWN	DESIGNED
R.Dawson	J.Muirson

CHECKED: J.Kupec

APPROVED: T. Browne *April 2016* (DATE)

PROJECT: PRESTONS SOUTH STAGES 1O & 1P

TITLE: POST EARTHWORKS CPTS

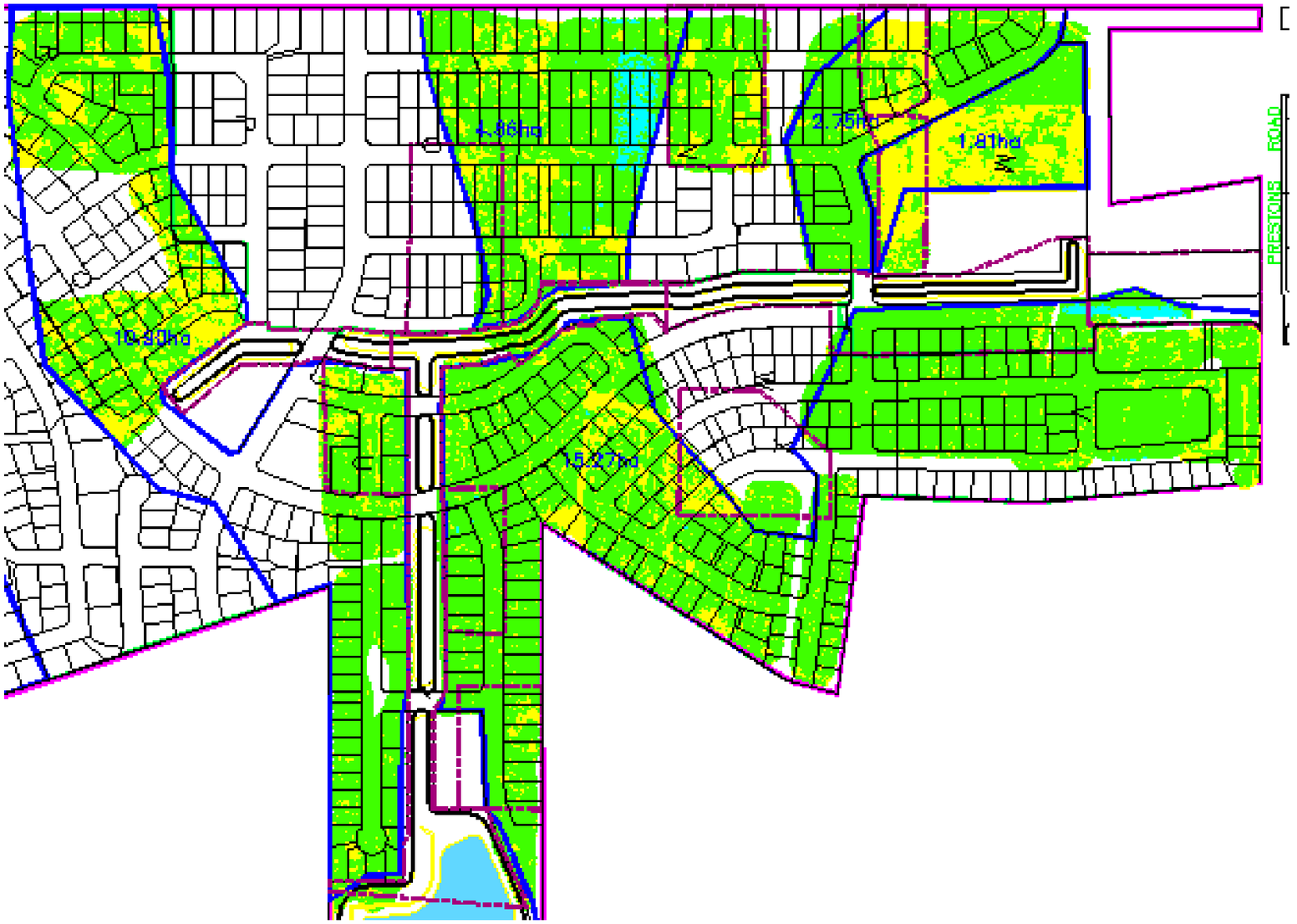
PROJECT No.: 235361

SCALE: AS SHOWN | SIZE: A3

DRAWING No.: FIG 6 | REV: A

Path: P:\223488\GIS\MXD\geotech figs\detailed design\SOUTH STAGE 1 O AND P COMP APR 2016\FIG 6 POST EW CPTS.mxd

Appendix B
Landpac CIR



CIR SOIL RESPONSE

- Low
- Medium
- High
- Very High

Notes:
The CIR plot indicates the relative soil response to the dynamic loads imposed by the impact drums. The plot is derived from the recorded deceleration of the impact drums and the GPS locations of each impact point. High response values are typically a function of the sub-grade stiffness to a depth of the strain induced by the impact drums. The low and medium response values can be influenced by near surface soil conditions and do not necessarily indicate weaker sub-grade stiffness to a comparative depth. The low and medium response areas should be further investigated by a geotechnical engineer to confirm the suitability of the sub-grade.

LAND PAC
PO BOX 132, Seven Hills, NSW 1730
(02) 9838 7044; 1300 237 045

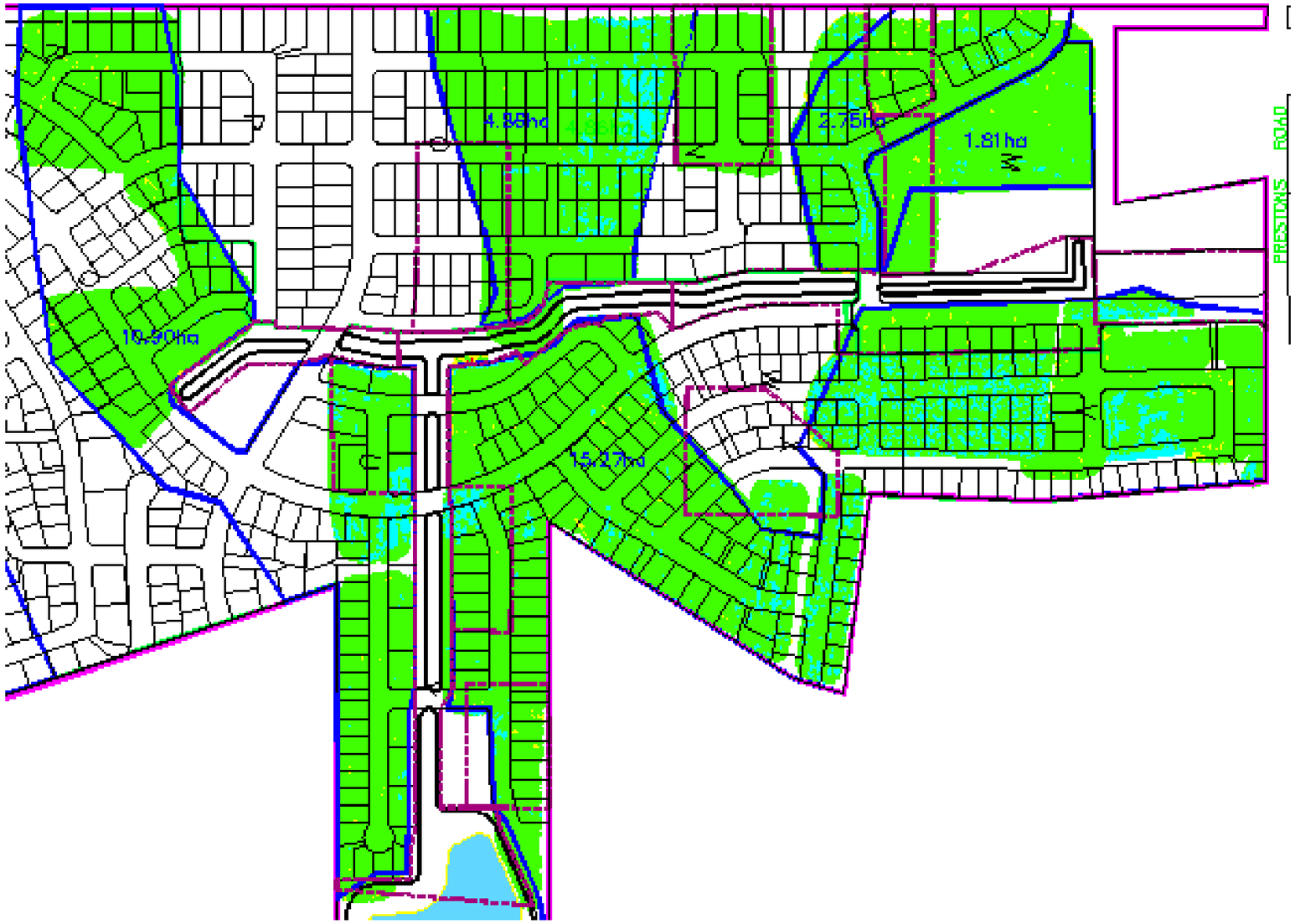
Drawn: SD Date: 08/11/2015
Ckd: SD Date: 10/11/2015

Project:
PRESTONS SOUTH

Drawing Title
INITIAL CIR (Soil Response) Plot

Drg. No: Prestons-028

REV-A



CIR SOIL RESPONSE

- Low
- Medium
- High
- Very High

Notes:
The CIR plot indicates the relative soil response to the dynamic loads imposed by the impact drums. The plot is derived from the recorded deceleration of the impact drums and the GPS locations of each impact point. High response values are typically a function of the sub-grade stiffness to a depth of the strain induced by the impact drums. The low and medium response values can be influenced by near surface soil conditions and do not necessarily indicate weaker sub-grade stiffness to a comparative depth. The low and medium response areas should be further investigated by a geotechnical engineer to confirm the suitability of the sub-grade.

LANDPAC
PO BOX 132, Seven Hills, NSW 1730
(02) 9838 7044; 1300 237 045

Drawn: SD Date: 08/11/2015
Ckd: SD Date: 10/11/2015

Project:
PRESTONS SOUTH

Drawing Title
FINAL CIR (Soil Response) Plot

Drg. No: Prestons-029

REV-A