

LEGEND

- GRASSLAND - CAT B
- GRASSLAND - CAT C
- EXTENT OF GRASSLAND
- ASSESSMENT AREA
- PROPOSED OFFSET AREA
- 20m BUFFER

CULTURAL HERITAGE LEGEND

- SURVEYED AREA (RECEIVED 2017.10.03)
- 'MASTER SITES' (RECEIVED 2017.10.03)
- 'ARTEFACTS' (RECEIVED 2017.10.03)
- 'QUARTZ OUTCROP ALTERATION' (RECEIVED 2017.10.23)

NOTE:

- ENVIRONMENTAL MAPPING RECEIVED 17.06.22 & 17.06.26.
- FOR THE CLEARANCE OF LOMANDRA, 0.82 HA RELATES ONLY TO THE CATEGORY B AREAS. CATEGORY C AREAS ARE OF POORER QUALITY AND THEREFORE NOT COVERED BY THE COMMONWEALTH EPBC ACT (BUT COVERED BY THE STATE NATIVE VEGETATION ACT)

02 PROPOSED TURBINE LOCATION
T01 NEW TURBINE IDENTIFICATION (RED)
 ORIGINAL TURBINE IDENTIFICATION (BLACK)

COMMUNICATIONS AND ELECTRICAL ZONES (RECEIVED FROM ENGIE 11.07.2017)

DEVELOPMENT APPROVAL TURBINE LOCATIONS (REV 00)

| WILLOGELECHE WIND FARM TURBINE CO-ORDINATES - REV 8A-33 | | | | | TURBINE CO-ORDINATES REV00 (DA) | | | | MICROSITED DISTANCE FROM PROJECT APPROVED COORDINATES (m) REV00 v REV 8A-33 |
|---|---------------------|---------|----------|-----------|---------------------------------|---------------------|---------|----------|---|
| NEW TURBINE ID | ORIGINAL TURBINE ID | EASTING | NORTHING | WTG MODEL | NEW TURBINE ID | ORIGINAL TURBINE ID | EASTING | NORTHING | |
| 01 | T03 | 300463 | 6303374 | 3.8 | 01 | T03 | 300566 | 6303335 | 86.31 |
| 02 | T01 | 300182 | 6303720 | 3.8 | 02 | T01 | 300230 | 6303652 | 83.23 |
| 03 | T02 | 299991 | 6303321 | 3.4 | 03 | T02 | 300053 | 6303336 | 93.21 |
| 04 | T04 | 299868 | 6303875 | 3.4 | 04 | T04 | 299974 | 6303817 | 120.30 |
| 05 | T05 | 299835 | 6302758 | 3.4 | 05 | T05 | 299812 | 6302720 | 44.95 |
| 06 | B-WTG04 | 300263 | 6301430 | 3.8 | 06 | B-WTG04 | 300281 | 6301419 | 21.10 |
| 07 | B-WTG05 | 299920 | 6301256 | 3.8 | 07 | B-WTG05 | 299927 | 6301195 | 61.40 |
| 08 | B-WTG06 | 300343 | 6301115 | 3.8 | 08 | B-WTG06 | 300394 | 6301112 | 51.09 |
| 09 | T06 | 299578 | 6302501 | 3.8 | 09 | T06 | 299556 | 6302450 | 54.08 |
| 10 | T07 | 299500 | 6302201 | 3.8 | 10 | T07 | 299482 | 6302148 | 55.97 |
| 11 | T08 | 299298 | 6301783 | 3.8 | 11 | T08 | 299267 | 6301873 | 95.19 |
| 12 | T09 | 299432 | 6301505 | 3.8 | 12 | T09 | 299412 | 6301546 | 45.62 |
| 13 | T10 | 299500 | 6301218 | 3.4 | 13 | T10 | 299489 | 6301238 | 22.83 |
| 14 | T12 | 299667 | 6300978 | 3.4 | 14 | T12 | 299710 | 6300924 | 69.83 |
| 15 | B-WTG08 | 299530 | 6300650 | 3.4 | 15 | B-WTG08 | 299532 | 6300633 | 17.12 |
| 16 | T15 | 299594 | 6300310 | 3.4 | 16 | T15 | 299539 | 6300316 | 55.33 |
| 17 | T14 | 299139 | 6300522 | 3.8 | 17 | T14 | 299147 | 6300468 | 54.59 |
| 18 | T13 | 298957 | 6300744 | 3.8 | 18 | T13 | 298953 | 6300761 | 17.46 |
| 19 | T11 | 298781 | 6301057 | 3.4 | 19 | T11 | 298781 | 6301057 | 0.00 |
| 20 | B-WTG07 | 298455 | 6301481 | 3.8 | 20 | B-WTG07 | 298443 | 6301468 | 53.57 |
| 21 | B-WTG09 | 299272 | 6299955 | 3.4 | 21 | B-WTG09 | 299223 | 6299905 | 90.67 |
| 22 | T16 | 299311 | 6299774 | 3.4 | 22 | T16 | 299220 | 6299777 | 91.05 |
| 23 | T18 | 299027 | 6299537 | 3.8 | 23 | T18 | 298991 | 6299489 | 60.00 |
| 24 | T17 | 298887 | 6299780 | 3.8 | 24 | T17 | 298854 | 6299708 | 98.35 |
| 25 | T19 | 299037 | 6299203 | 3.8 | 25 | T19 | 298944 | 6299100 | 95.80 |
| 26 | T20 | 298746 | 6298899 | 3.8 | 26 | T20 | 298769 | 6298886 | 26.42 |
| 27 | B-WTG10 | 298931 | 6298747 | 3.8 | 27 | B-WTG10 | 298974 | 6298583 | 164.88 |
| 28 | T21 | 298300 | 6298104 | 3.8 | 28 | T21 | 298375 | 6298133 | 80.41 |
| 29 | T22 | 298177 | 6298374 | 3.8 | 29 | T22 | 298116 | 6298448 | 74.91 |
| 30 | T24 | 297847 | 6297802 | 3.8 | 30 | T24 | 297830 | 6297813 | 20.25 |
| 31 | T25 | 297775 | 6297542 | 3.8 | 31 | T25 | 297740 | 6297503 | 52.40 |
| 32 | T26 | 297347 | 6297155 | 3.8 | 32 | T26 | 297340 | 6297143 | 13.89 |

ENVIRONMENTAL DISTURBANCE CATEGORY B ONLY

| ITEM | TOTAL AREA (m ²) | REFERENCE DRG. |
|----------------------------------|------------------------------|----------------|
| T11 HARDSTAND & BATTERS | 880 | 1173 |
| T19 HARDSTAND & BATTERS | 125 | 89 |
| T24 HARDSTAND & BATTERS | 236 | 46 |
| T28 HARDSTAND, ROAD & BATTERS | 3940 | 5476 |
| SUB TOTAL | 5181 | 6784 |
| TOTAL INCLUDING 20% CONTINGENCY | 6217 | 0.62 HA |
| DEVELOPMENT APPROVED AREA | 8200 | 6784 |

ENVIRONMENTAL DISTURBANCE CATEGORY C ONLY

| ITEM | TOTAL AREA (m ²) | REFERENCE DRG. |
|------------------------------|------------------------------|---------------------|
| ROAD T21 HARDSTAND & BATTERS | 1738 | 776 |
| CUMULATIVE TOTAL | 1738 | x CAT C ONLY |

WILLOGELECHE WIND FARM MET MAST LOCATIONS

| MET MAST ID | NEW/EXISTING | STATUS | EASTING | NORTHING | COMMENTS |
|-----------------|--------------|-----------|------------|-------------|---------------------|
| MET MAST PCVT1 | NEW | PERMANENT | 299936.900 | 6303933.500 | |
| MET MAST PCVT26 | NEW | PERMANENT | 297547.400 | 6298699.100 | |
| MET MAST T01 | NEW | TEMPORARY | 300170.333 | 6303131.667 | 16.5m FROM TURBINE |
| MET MAST T26 | NEW | TEMPORARY | 297336.354 | 6297142.360 | 16.5m FROM TURBINE |
| MET MAST 1 | EXISTING | PERMANENT | 300250.348 | 6303427.699 | A.S. SURVEY 26/6/17 |
| MET MAST 2 | EXISTING | PERMANENT | 298221.722 | 6298616.201 | A.S. SURVEY 13/7/17 |

NOTE:
 TURBINES REMOVED SINCE DEVELOPMENT APPROVAL (REV00)
 T23, B-WTG02, B-WTG03, B-WTG12
1416m² remaining
0.142h - Remain

CONSTRUCTION ISSUE

| REV | DETAIL OF REVISION | RVD | CHKD | APPD | CLIENT | DATE |
|-----|--|-----|------|------|--------|------------|
| 1 | MET MASTS, ROAD 20 & TURBINE COORDINATES REVISED | TSM | RB | RB | | 05.12.2017 |
| 0 | ISSUED FOR CONSTRUCTION AND TURBINES RE-NUMBERED | TSM | RB | RB | | 06.11.2017 |
| N | TURBINE NUMBERING REVISION | TSM | RB | RB | | 26.10.2017 |
| M | STAGE 4 ISSUED FOR CONSTRUCTION | TSM | RB | RB | | 20.10.2017 |
| L | CULTURAL & HERITAGE ARTEFACTS ADDED | TSM | RB | RB | | 12.10.2017 |
| K | CULTURAL & HERITAGE SURVEY ADDED | TSM | RB | RB | | 11.10.2017 |

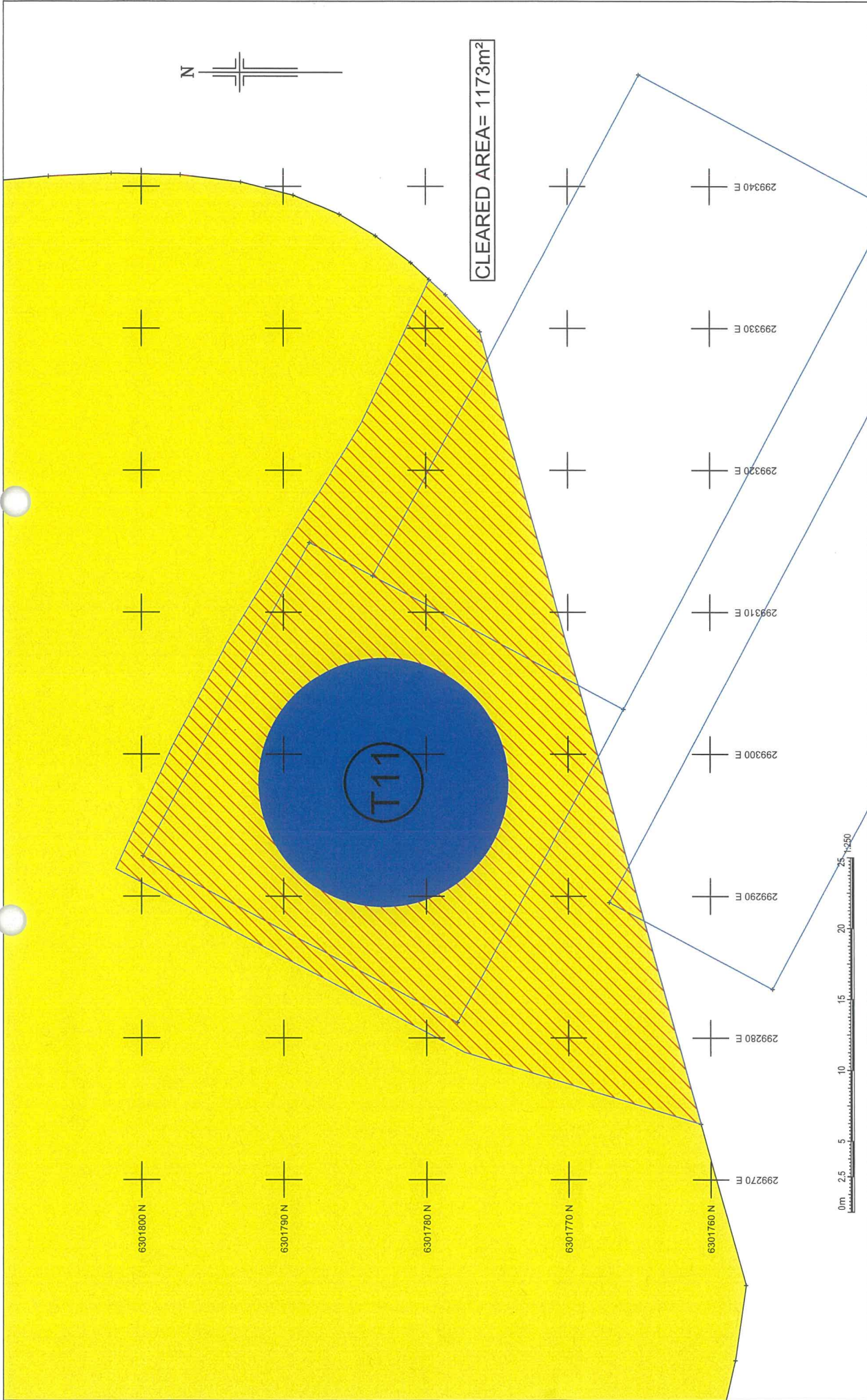
| REFERENCE DRAWING | DRAWING No. |
|-------------------|-------------|
| | |



| DRAWN | TSM | DATE | 21.06.2017 | PROJECT | WILLOGELECHE WIND FARM |
|----------------------|-----------|-------|------------|-------------|------------------------|
| CHECKED | RB | DATE | 21.06.2017 | TITLE | CIVIL WORKS |
| APPROVED | RB | DATE | 11.08.2017 | | SITE CONSTRAINTS PLAN |
| CONTRACTOR PROJ. No. | WAD120378 | SCALE | AS SHOWN | DRAWING No. | WWF-CI-DR |
| SHEET | 0003 | REV | 1 | | |

DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

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CLEARED AREA= 1173m²

AS CONSTRUCTED SURVEY OF CLEARED AREA
 TOWER 11 CAT B
 WILLOGLECHE WINDFARM

Alexander Symonds
 Surveying
 Consultants

Alexander & Symonds Pty Ltd
 11 King William Street Kent Town,
 South Australia 5067
 Phone: (08) 8362 1099
 Fax: (08) 8362 1099
 Email: alexander@alexander.com.au

T (08) 8130 1666
 W alexander.com.au
 E alexander@alexander.com.au

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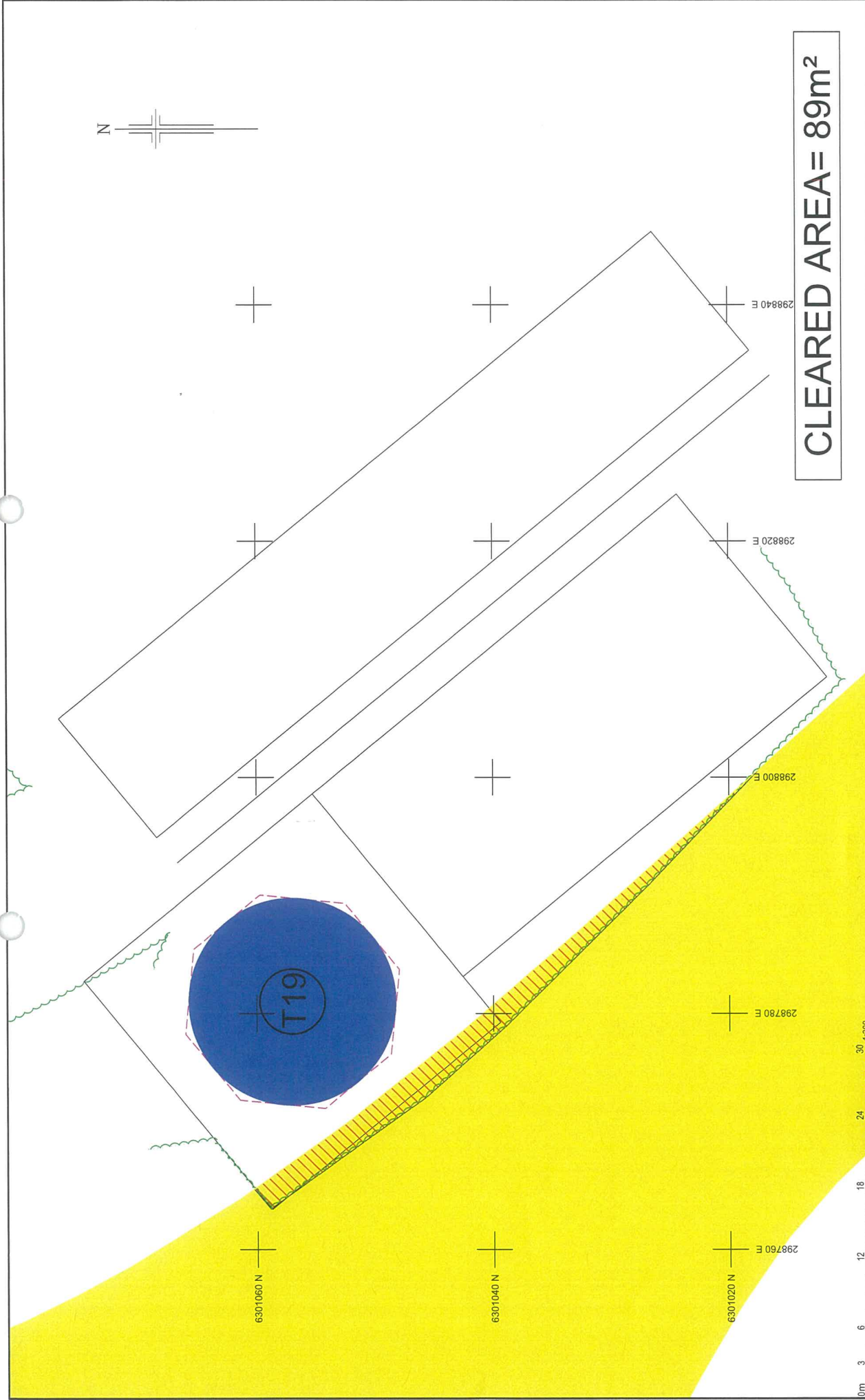
CONTOUR INTERVAL: -
 SURVEY: GPM 22-02-2018
 DRAWN: GPM 14-03-2018
 CHECKED: -

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Notes:
 Property boundaries shown hereon have been
 compiled from the government records and
 have not been verified by field survey.

| REV | DATE | DESCRIPTION | ADDITONS, AMENDMENTS AND APPROVALS | CALC FIELD |
|-----|------|-------------|------------------------------------|------------|
| | | | | |

SHEET SIZE: A3
 DRAWING No.: A024417 Iron Grass Areas - T11(2)
 SHEET: 1 OF 1
 REVISION: 2



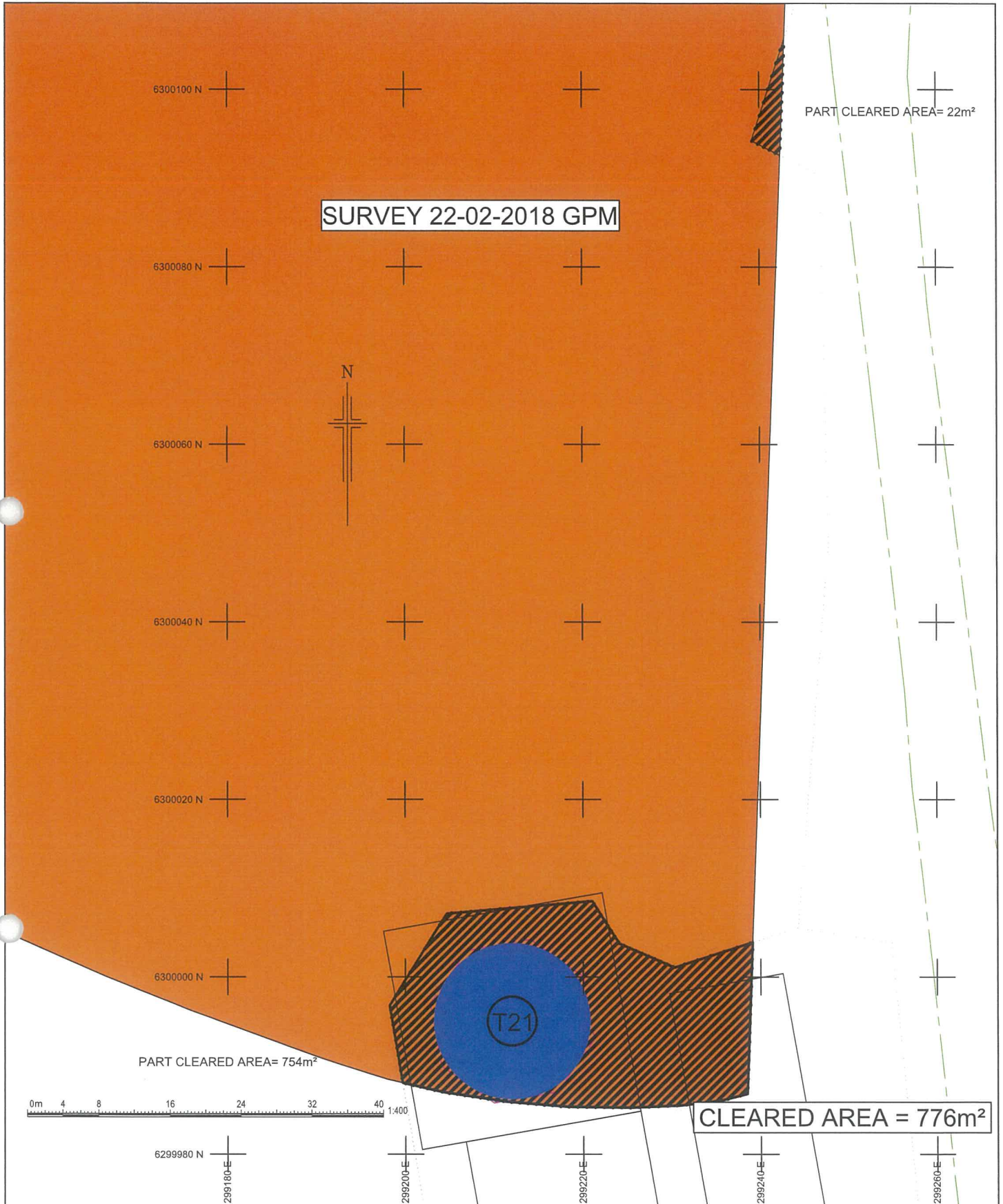
CLEARED AREA = 89m²

| REV | DATE | DESCRIPTION | CALC | FIELD |
|-------------------------------------|------|-------------|------|-------|
| ADDITIONS, AMENDMENTS AND APPROVALS | | | | |

| | | | | |
|--|---|--|---|---|
| <ul style="list-style-type: none"> 45 100mm WATER TABLE 45 100mm FLOOR LEVEL 45 100mm INVERT LEVEL 45 100mm T.M. WATER METER WATER METER VALVE DOMESTIC OUTLET DOMESTIC OUTLET DOWNPIPE STORMWATER WHOLE SEPTIC GRATING | <ul style="list-style-type: none"> TEL. COMM. PILLARY PIT TRANSFLUOR 100mm RIB RIG / SIGNAL BOX TOILET MACHINE ROAD / ELEC. SERVICE WATER BY / TP ELEC. / USE SERVICE | <ul style="list-style-type: none"> PSM TEG / TM SURVEY MARKS BORING DALE MANDREL STONE / WOODEN POLE POST / INCLAND ENTER WH / POI / SP UNKNOWN POINT / SERVICE | <ul style="list-style-type: none"> EDGE OF VEGETATION ROAD SIGN / HORN TREE / SPUR PROPOSED ROAD SIGN / HORN PROPOSED ROAD SIGN / HORN | <ul style="list-style-type: none"> BOTTOM OF BANK TOP OF BANK CHANGE OF GRADE DRAIN SEWER PIPE LOG WATER PIPE LOG BUILDING WALL CONCRETE FENCE XXXXXXXX GATE |
|--|---|--|---|---|

| | | | | |
|---|--|--|--|--------------------|
| <p>CONTOUR INTERVAL: -</p> <p>SURVEY: MLP 08-03-2018</p> <p>DRAWN: GPM 15-03-2018</p> <p>CHECKED: -</p> | <p>Alexander & Symonds Pty Ltd 11 King William Street Kent Town, South Australia 5067 Phone: (08) 8330 7553 Fax: (08) 8330 7553 Email: alexs@alexander.com.au Website: alexander.com.au</p> | <p>ASCONSTRUCTED SURVEY OF CLEARED AREA TOWER 19 CAT B WILLOGLECHE WIND FARM</p> | <p>SHEET SIZE: A3 DRAWING No.: A024417 Iron Grass Areas T19(2) SHEET: 1 OF 1</p> | <p>REVISION: 2</p> |
|---|--|--|--|--------------------|

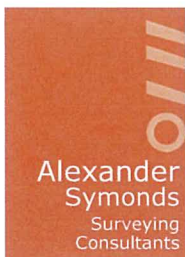
Notes:
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Alexander & Symonds Pty Ltd
 11 King William Street Kent Town,
 South Australia 5067
 PO Box 1000 Kent Town, SA 5071
 DX 209 ABN 93007 753 988

T (08) 8130 1666
F (08) 8362 0099
W www.alexander.com.au
E adelaide@alexander.com.au

+ Property + Land Development +
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ORIGINAL SHEET SIZE A3

AS CONSTRUCTED SURVEY OF CLEARED AREA
 TOWER 21 CAT C
 WILLOGOLECHE WIND FARM

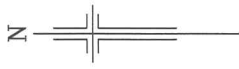
DRAWING No.

SHEET 1 OF 1

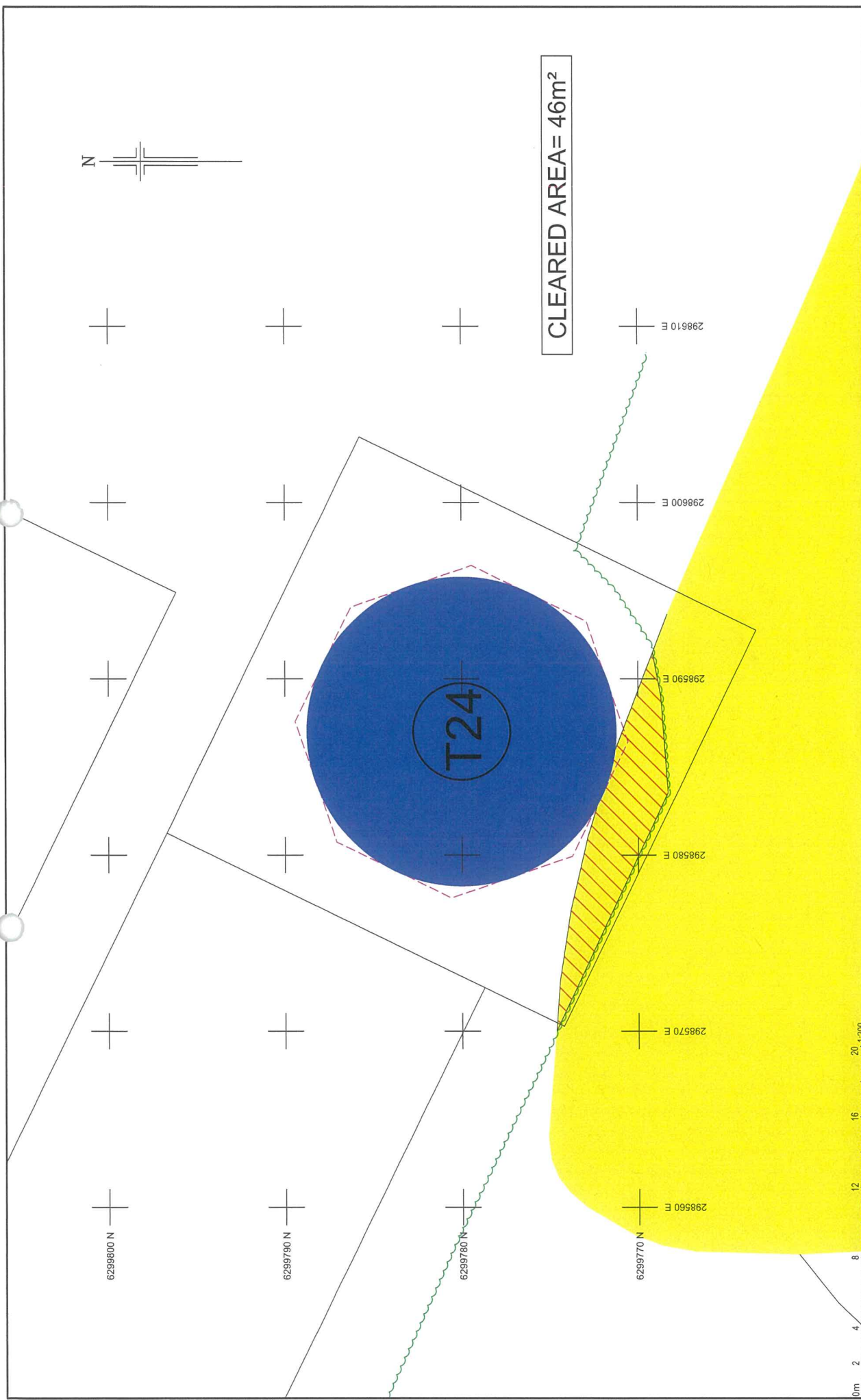
REVISION

A024417 IRON GRASS AREAS T21(0)

0



CLEARED AREA = 46m²



AS CONSTRUCTED SURVEY OF CLEARED AREA
 TOWER 24 CATB
 WILLOGOLECHE WIND FARM

SHEET SIZE: A3
 DRAWING No.: A024417 Iron Grass Areas T24(2)
 SHEET: 1 OF 1
 REVISION: 2

Alexander Symonds
 Surveying Consultants

Alexander & Symonds Pty Ltd
 11 King William Street Kent Town,
 South Australia 5067
 Phone: +61 (0)8 8362 0868
 ABN: 93307 753 988
 T: (08) 8330 1666
 F: (08) 8362 0868
 W: alexsdc@aol.com.au
 E: alexsdc@aol.com.au

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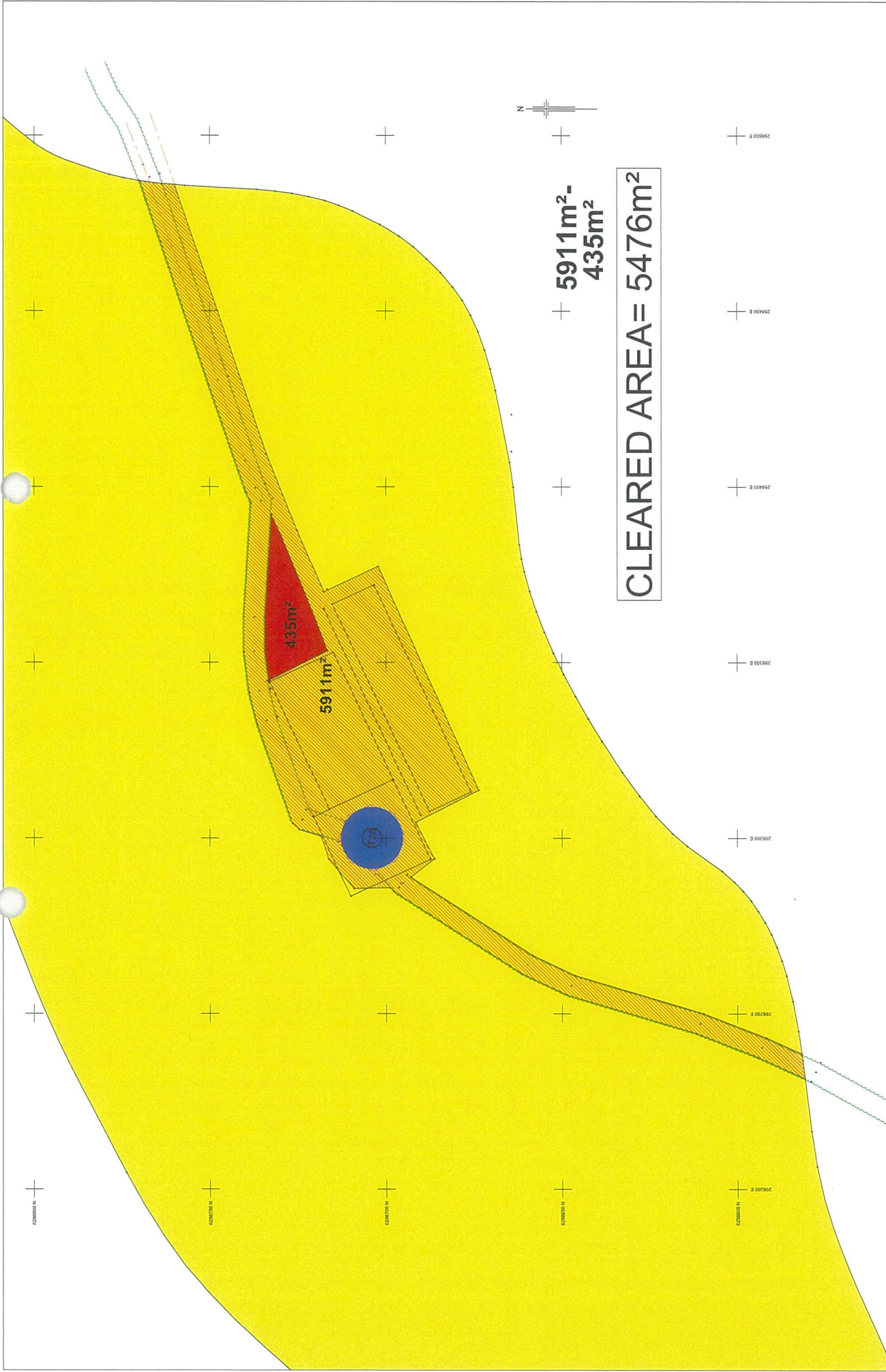
CONTOUR INTERVAL: 0.1m
 SURVEY: 08-03-2018
 DRAWN: GPM 15-03-2018
 CHECKED:

Notes:
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- LEGEND**
- PSM: Pylon / TM
 - Survey Marks: AY, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
 - Power / Light Pole: O, X
 - Stone / Wooden Pole: O, X
 - Post / Reel: O, X
 - Water / SP: O, X
 - Unknown Point / Service: O, X
 - 45.0m: Water Table
 - 45.0m: Floor Level
 - 45.0m: Invert Level
 - 45.0m: TP
 - Water Meter
 - Water Valve
 - Domestic Valve
 - Domestic Outlet
 - Downpipe
 - Domestic Dump
 - Stormwater Hole
 - SPT: Graving
 - Tel. Comm. Pillar / P/T
 - Traffic Light
 - Mail Box / Signal Box
 - Litter Bin
 - Ticket Machine
 - Road / Elec. Service
 - Water / SP
 - Elec. /
 - Gas Service

Bottom of Bank
 Top of Bank
 Change of Grade
 Drain
 Sewer Pipe / UG
 Water Pipe / UG
 Building
 Wall
 Concrete
 Fence
 XXXXXX: Gate

| REV | DATE | DESCRIPTION | ADDITIONS, AMENDMENTS AND APPROVALS | CALC | FIELD |
|-----|------|-------------|-------------------------------------|------|-------|
| | | | | | |



| | | | | |
|---|--|--|--|---|
| | | AS CONSTRUCTED SURVEY OF CLEARED AREA TOWER 28 CAT B WILLOGLECHE WINDFARM | | SHEET 1 OF 1 PROVISION B |
| Alexander & Symonds Pty Ltd 150/151 Sturt Street, Level 1 South Australia 5002 Ph: +61 8 8322 7338 Fax: +61 8 8322 7338 Email: alexander@alexander.com.au www.alexander.com.au | | Alexander & Symonds Pty Ltd 150/151 Sturt Street, Level 1 South Australia 5002 Ph: +61 8 8322 7338 Fax: +61 8 8322 7338 Email: alexander@alexander.com.au www.alexander.com.au | | DRAWING NO: A024117 Item Grass Areas T28(B) |
| E. ALEXANDER & SYMONDS PTY. LTD. 150/151 Sturt Street, Level 1 South Australia 5002 Ph: +61 8 8322 7338 Fax: +61 8 8322 7338 Email: alexander@alexander.com.au www.alexander.com.au | | ORIGINAL SHEET SIZE: A1 SCALE: 1:500 CONTOUR INTERVAL: 0.5m DRAWN BY: [Name] CHECKED BY: [Name] | | PROJECT: [Name] CLIENT: [Name] DATE: [Date] |
| COORDINATE SYSTEM HORIZONTAL: GROUND PLANE ORIENTED TO: MAGN. ZONE 54 SCALE: GROUND (CSF = 1.00000) | | ADOPTED STATION & AUTHORITY PSM: [Station Name] REL: [Authority] E: [Authority] SIB: [Authority] SIB: [Authority] | | DATE: [Date] |
| LEGEND [List of symbols and their corresponding descriptions for various site features like roads, boundaries, and structures.] | | | | |
| ADDITIONAL COMMENTS AND APPROVALS DATE: _____ DESCRIPTION: _____ | | | | |