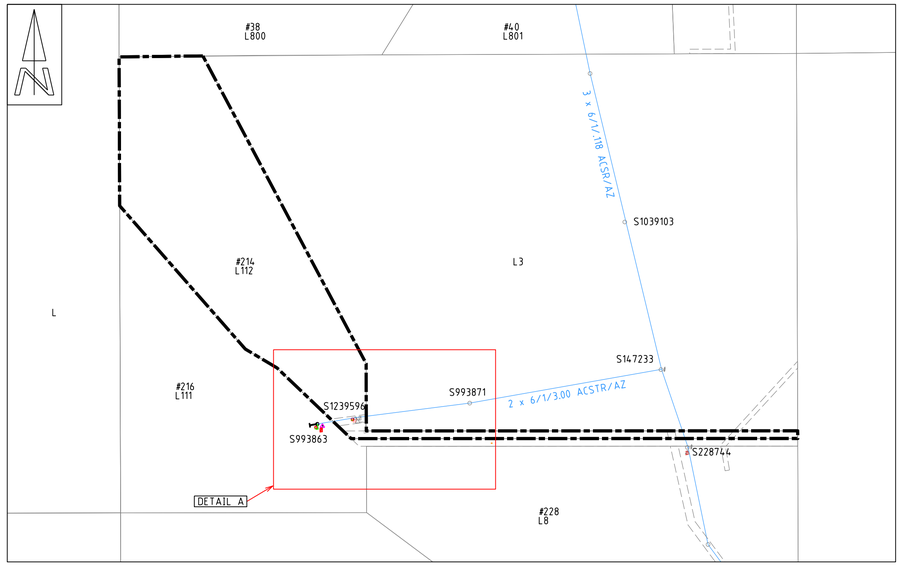
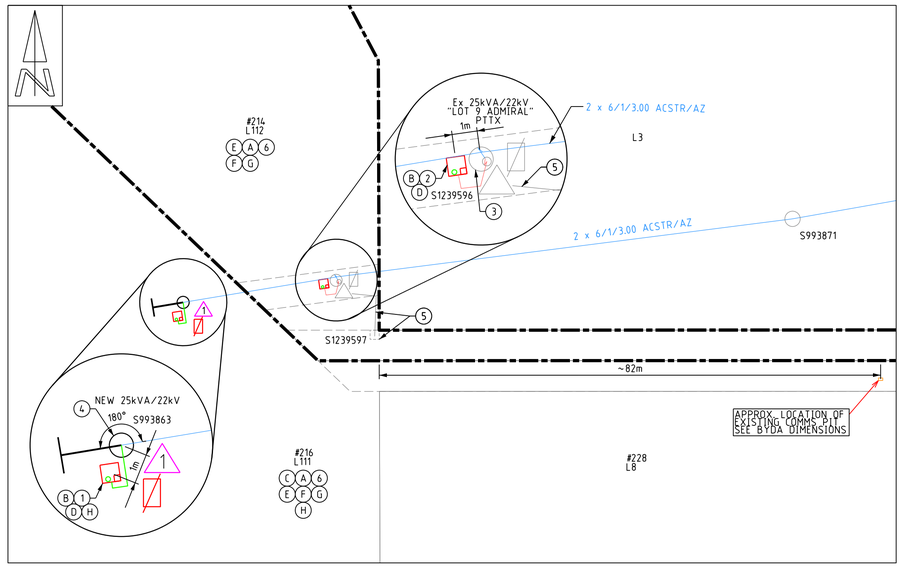


LOCATION PLAN

1:2000



DETAIL A

1:500

WESTERN POWER SCOPE OF WORK

1. INSTALL NEW MINI PILLAR ON L111/#216 ADMIRAL RD AS PER ZONE EXCLUSION DETAIL (WASIR CL. 12.5.3) WITHIN 1m OF THE BASE OF POLE S993863.
   CU: LU10 x 1
   NCU: CR0324 x 1
   DCSH: U08-04

2. INSTALL NEW MINI PILLAR ON L112/#214 ADMIRAL RD AS PER ZONE EXCLUSION DETAIL (WASIR CL. 12.5.3) WITHIN 1m OF THE BASE OF POLE S1239596.
   CU: LU10 x 1
   NCU: CR0324 x 1
   DCSH: U08-04

3. AT EXISTING POLE S1239596:
   - DISCONNECT AND REMOVE EXISTING HV DOF'S (FUSES AND CARRIERS).
   - INSTALL STAND OFF INSULATORS ON DOF XARM (TOP SIDE).
   - RETAP HV AERIALS DIRECTLY TO THE EXISTING 25kVA PTTX VIA STAND OFF INSULATORS.
   - CUT EXISTING 25LV CABLE, SWING AND TERMINATE INTO NEW MINI PILLAR.
   - VERIFY SIZE OF EXISTING FLOWLINE FUSE AND REPLACE WITH 80A AS REQUIRED.
   CU: CN9_T6/1/300 x 2, CN11_150 x 2, CN70_150 x 2, CN73_25LV x 1, CN39_150 x 1, HV36 x 2
   NON-CU: IC0118 x 2, GF1944 x 1
   DCSH: H10-1, R6-1-2, R07-2, R12-1, U19-3

4. AT EXISTING POLE S993863:
   - REPLACE EXISTING POLE WITH A NEW 11m/5kN POLE
   - INSTALL HV TERMINATION CROSSARM.
   - INSTALL NEW 2 BUSHING, 1PH 25kVA PTTx.
   - INSTALL NEW GROUND STAY AT 45 DEGREES.
   - RE-TENSION HV AERIAL CONDUCTORS.
   - INSTALL 25LV CABLE FROM THE POLE TO NEW MINI PILLAR.
   - TERMINATE 25LV CABLE VIA FLOWLINE FUSE 80A.
   CU: P05_11 x 1, ST1_19/200W x 1, TX55_25/22B2 x 1, HV5_2RN x 1, CN9_T6/1/300 x 2, LU61_25_240 x 1, LU61_25_240 x 1, CN1_6/1/300 x 2, CN70_150 x 2, CN42 x 15m, CN54 x 1, CN73_25LV x 3, CN35_80 x 1
   DCSH: H11-1, R05-2, R6-1-2, R07-2, R12-1, R13, R14, U19-3

5. AT EXISTING MINI PILLAR S1239597:
   - DISCONNECT EXISTING CONSUMER MAINS IN CONJUNCTION WITH THE CUSTOMERS ELELCTRICAL CONTRACTOR.
   - DISCONNECT AND REMOVE 25LV CABLE FROM THE CUSTOMERS PROPERTY.
   - REMOVE EXISTING MINI PILLAR.
   CU: CN73_LV25 x1
   DCSH: U08

6. ENVIRONMENTAL FILTER CHECKED

   THE FOLLOWING ENVIRONMENTAL ISSUES HAVE BEEN IDENTIFIED FOR THIS PROJECT. ALL RELEVANT PERMITS / PROCEDURES MUST BE OBTAINED / ADHERED TO:

   1. NATIVE VEGETATION.
   NO NATIVE VEGETATION MAY BE CLEARED OR DAMAGED WITHOUT A PERMIT. CUSTOMER TO OBTAIN NATIVE VEGETATION CLEARING PERMIT. REFER TO CUSTOMER SCOPE OF WORKS 'I - VEGETATION' AND ENVIRONMENTAL DRAWING (SHEET 2 OF 2).

   2. FAUNA
   REFER TO CUSTOMER SCOPE OF WORKS 'I - FAUNA'.

   3. ACID SULFATE SOIL
   NO DEWATERING IS PERMITTED WITHOUT AN ACID SULFATE SOILS AND DEWATERING MANAGEMENT PLAN BEING IN PLACE AND COMPLIANCE WITH THE EXCAVATION AT TRENCHING PROCEDURE. ALL EXCAVATIONS TO BE BACKFILLED WITHIN 18 HOURS.

   4. DANGEROUS GOODS
   THE SCOPE OF WORK FOR THIS PROJECT INVOLVES THE REMOVAL OR INSTALLATION OF ASSETS ASSOCIATED WITH HAZARDOUS SUBSTANCES AND DANGEROUS GOODS. (E.G. SF6, CHEMICALLY TREATED POLES). WESTERN POWER CREWS SHOULD FOLLOW THE WESTERN POWER HAZARDOUS SUBSTANCES AND DANGEROUS GOODS WORK INSTRUCTION WHICH OUTLINES THE MINIMUM SAFETY, HEALTH AND ENVIRONMENTAL REQUIREMENTSASSOCIATED WITH HANDLING, STORING, TRANSPORTING AND DISPOSING OF HAZARDOUS SUBSTANCES AND DANGEROUS GOODS.

   5. ABORIGINAL HERITAGE
   REFER TO CUSTOMER SCOPE OF WORKS 'I - ABORIGINAL HERITAGE'.

CUSTOMER SCOPE OF WORK

A. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS.

B. PILLAR EXCLUSION ZONE TO BE PREPARED AS PER THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSE 12.5.3. THIS INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

   1. PEGGING THE PILLAR LOCATION AND ADJACENT BOUNDARY LOCATION PRIOR TO CONSTRUCTION.

   2. ONLY EASILY REMOVABLE SURFACE TREATMENT IS TO BE INSTALLED IN THIS AREA, SUCH AS BRICK PAVING.

   3. CLEAR OF ALL SERVICES INCLUDING CONTAMINATED SOIL, ASBESTOS ETC.

   4. LOCATED 300mm ABOVE 100 YEAR FLOOD LEVEL AND NOT IN A PRECARIOUS POSITION.

   5. CUSTOMER TO ENSURE PILLAR EXCLUSION ZONE CLEAR OF VEGETATION TO THE SATISFACTION OF THE WP SCOPER/PNO.

C. CUSTOMER IS RESPONSIBLE TO ARRANGE FOR WESTERN POWER ELECTRICAL CONTRACTOR SERVICE REQUEST OR AN APPROPRIATELY ACCREDITED ELECTRICAL CONTRACTOR TO INSTALL DIRECT METERING IN THE SWITCHBOARD PRIOR TO SUPPLY BEING ENERGISED.

D. CUSTOMER IS RESPONSIBLE TO ARRANGE FOR WESTERN POWER ELECTRICAL SERVICE REQUEST OR AN APPROPRIATELY ACCREDITED ELECTRICAL CONTRACTOR TO TERMINATE PROPERTY #214 AND #216 CONSUMER MAINS TO THE BACK BLOCKS OF INDIVIDUAL MINIPILLARS LOCATED ON PROPERTY #214 AND #216 RESPECTIVELY. MAX SIZE CONSUMER MAINS THAT CAN BE TERMINATED IS 35mm2/PHASE.

E. THIS DESIGN IS INTENDED TO BE CONSTRUCTED DE-ENERGISED. YOUR ELECTRICITY SUPPLY MAY NOT BE AVAILABLE DURING THIS TIME

F. CUSTOMER SMSB TO BE LOCATED WITHIN 30m OF THE WESTERN POWER MINI-PILLAR.

G. CUSTOMER ELECTRICAL CONTRACTOR IS TO REMOVE #216 CONSUMER MAINS FROM #214 ADMIRAL RD REFER TO WAER 9.7.

H. CUSTOMER IS RESPONSIBLE FOR THE RELOCATION OF PROPERTY #216 (LOT 111) MAIN SWITCHBOARD FROM PROPERTY #214 TO #216 AND THE RE-CONNECTION OF PROPERTY #216 POWER SUPPLY TO NEW PILLAR ON PROPERTY #216.

I. ENVIRONMENTAL:

   VEGETATION:
   BEING A CUSTOMER FUNDED PROJECT, THE CUSTOMER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CLEARING APPROVALS AND, PRIOR TO WESTERN POWER COMMENCING WORKS, THE CUSTOMER IS REQUIRED TO PROVIDE A COPY OF EITHER:
   - A CLEARING PERMIT ISSUED IN THE CUSTOMER'S NAME; OR
   - A REFERRAL DETERMINATION NOTICE ISSUED BY DWER CONFIRMING A CLEARING PERMIT IS NOT REQUIRED BY THE CUSTOMER; OR
   - WRITTEN DETAILS OF A RELEVANT CLEARING PERMIT EXEMPTION AND SUPPORTING DOCUMENTS.
   THIS ALSO INCLUDES RELEVANT DEVELOPMENT APPROVALS FOR THE WORKS (I.E. BUILDING APPROVALS FOR A STRUCTURE THAT REQUIRES CLEARING TO CONSTRUCT). APPROVALS / EXEMPTIONS CAN BE SENT TO THE SEQT ENVIRONMENT TEAM VIA ENVIRONMENT@WESTERNPOWER.COM.AU FOR REVIEW AND SUITABILITY CONFIRMATION. ALLOW 10 BUSINESS DAYS FOR ENVIRONMENT TEAM TO REVIEW.
   REFER TO ENVIRONMENTAL DRAWING (SHEET 2 OF 2) FOR FURTHER DETAILS.

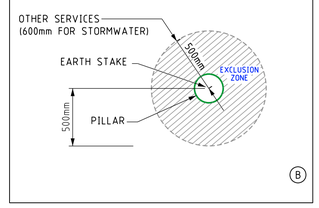
   ABORIGINAL HERITAGE:
   CUSTOMER IS RESPONSIBLE FOR COMPLETING THEIR OWN DILIGENCE ASSESSMENT OF POTENTIAL ABORIGINAL HERITAGE IMPACTS, AND ADVISING WESTERN POWER OF ANY COMPLIANCE REQUIREMENT THAT APPLY.

   FAUNA:
   THE CUSTOMER SHALL UNDERTAKE AND NECESSARY FAUNA SURVEYS AND IF REQUIRED OBTAIN RELEVANT STATE/COMMONWEALTH APPROVALS FOR IMPACTS TO THIS SPECIES &/OR ITS HABITAT. ALL SURVEYS, APPROVALS AND RELEVANT MANAGEMENT ACTIONS SHALL BE PROVIDED TO WESTERN POWER FOR RECORD KEEPING AND REVIEW.

SIMPLIFIED SINGLE LINE DIAGRAM

TYPICAL PILLAR EXCLUSION ZONE

NTS



LEGEND

SCHEME BDY.
RETAINING WALL
RESTRICTED ZONE
EASEMENT

HV CABLES
- CN53 - 400mm2 (3X1c)
- CN49 - 240mm2 (3X1c)
- CN48 - 185mm2 (3X1c)
- CN50 - 95mm2 (3X1c)
- CN51 - 50mm2 (3X1c)
- CN51 - 50mm2 (1c)
- CN46 - 35mm2 (3X1c)
- CN47 - 35mm2 (1c)
- EXISTING HV CABLES (SIZE AND TYPE INDICATED)

LV-SL CABLES
- CN45 - 240mm2 (1x3c)
- CN44 - 185mm2 (1x3c)
- CN43 - 120mm2 (1x3c)
- CN42 - 25mm2 (1x3c)
- CN41 - 16mm2 SL (1c)
- 40 C PILOT
- EXISTING LV CABLES (SIZE AND TYPE INDICATED)

STREET LIGHTS — EXISTING
- POLE BRACKET
- SINGLE OUTREACH
- DOUBLE OUTREACH
- 4-WAY

- ALPHA CHARACTER DENOTES STREET LIGHT TYPE. REFER STREET LIGHT SCHEDULE FOR POLE & LUMINIRE DETAILS.

PILLARS / PITS / ETC
- MINI (WORKING END)
- UNIVERSAL
- MINI
- LINK
- CABLE MARKER U/G
- UMS PIT
- UTILITIES PIT
- BGSP PIT
- 100/200AMP CUTOUT
- CONDUIT / POLY PIPE
- SxD Serviced Unclearad De-energised Lot

TRANSFORMER — EXISTING — SWITCHGEAR

AERIAL CONDUCTORS AND POLES
- NEW POLE (ANY TYPE AS INDICATED)
- EXISTING POLE (ANY TYPE AS INDICATED)
- HV LV EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)

SAFETY - MAKE IT YOUR PRIMARY VALUE

DATA CORRECTIONS:
MINI PILLAR (S1239597) IS SHOWN TO BE INISTALLED OF LOT 9 (#228) IN SPIDA. THIS PILLAR IS ACTUALLY LOCATED ON LOT 112 #214.

NO NATIVE VEGETATION MAY BE DISTURBED WITHOUT A PERMIT OR OUTSIDE OF THE PERMIT AREA. IF IN DOUBT, PLEASE CONTACT THE RELEVANT MANAGER WHO WILL CONTACT WESTERN POWER ENVIRONMENTAL TEAM.

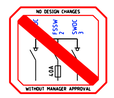
PLEASE NOTE: HEAVY PENALTIES MAY APPLY TO INDIVIDUALS AND BUSINESSES FOR DAMAGE TO NATIVE VEGETATION WITHOUT A PERMIT.

CONSULTANT CONTACT DETAILS
COMPANY NAME: BRANDY'S MECHANICAL
CONTACT: CLINT BRANDY TEL: 0427 700 641

ISSUED FOR CONSTRUCTION

CRITICAL RISK MANAGEMENT

☒	☒	☒	☒	☒	☒	☐	☒	☐



DESIGNED TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

Rev.	REVISIONS	DRN	DATE	REFERENCE FILE DETAILS
				SHE ASSESSMENT REPORT
A	ISSUED FOR CONSTRUCTION	D.H.	03/26	HAZARD MANAGEMENT REGISTER

STANDARD RESIDENTIAL SUPPLY 240V

LOT 112 #214 ADMIRAL RD

BEDFORDALE WA 6112

NETWORK VOLTAGE: 22kV

DESIGNER: DILUM HEWAGE
DESIGN TEAM: CCS RESI, SOL - RASP
EMAIL: ccs.design.resisolution@westernpower.com.au
TEL: 13 10 87
DATE: 03/26 SCALE: AS NOTED @ A1
GEO REF: Lat. - 32°11'26" S Long. - 116°03'19" E

westernpower

DRAWING NUMBER
MP217798
SHEET 01 OF 02

REV: A ORIGINAL SIZE - A1



DETAIL B - POTENTIAL ENVIRONMENTAL CLEARING AREA

1:200 4 2 0 4 8 12 16

CLEARING PERMIT WORK INSTRUCTION

WITH REGARD TO YOUR REQUESTED WORKS, IT HAS BEEN IDENTIFIED BY WESTERN POWER THAT CLEARING OR POTENTIAL CLEARING IS REQUIRED TO FACILITATE THE CONNECTION. BEING A CUSTOMER-FUNDED PROJECT, THE CUSTOMER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CLEARING APPROVALS PRIOR TO THE COMMENCEMENT OF WORKS. YOU CAN ENGAGE AN ENVIRONMENTAL CONSULTANCY TO ASSIST WITH THIS.

THE DEPARTMENT OF WATER AND ENVIRONMENTAL REGULATION (DWER) ADMINISTERS THE CLEARING PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986 (EP ACT). UNDER THE EP ACT, A CLEARING PERMIT IS REQUIRED TO AUTHORISE CLEARING OF NATIVE VEGETATION UNLESS A VALID EXEMPTION APPLIES OR DWER IDENTIFIES THAT A CLEARING PERMIT IS NOT REQUIRED VIA THE FORMAL CLEARING REFERRAL PROCESS. WHILE CLEARING PERMIT APPLICATIONS ATTRACT FEES, YOU DO NOT HAVE TO PAY A FEE TO SUBMIT A REFERRAL. WHEN APPLYING TO DWER ENSURE THAT THE FOLLOWING WORDING IS INCLUDED IN THE RELEVANT FORMS:

"ALL OTHER CONSTRAINTS HAVE BEEN CONSIDERED AND CLEARING WAS DEEMED THE MOST SIGNIFICANT IMPACT. METHODS TO AVOID AND MINIMISE CLEARING CONSIDERED DURING THE DESIGN PHASE INCLUDED;

1. PLACEMENT OF LAYDOWN AREAS, TURNAROUNDS ETC. IN PREVIOUSLY CLEARED LAND
2. UTILISATION OF EXISTING ACCESS TRACKS WHERE POSSIBLE
3. RESTRICTION OF WORKS TO EXISTING MAINTENANCE ZONE WHERE POSSIBLE
4. UTILISATION OF PRUNING INSTEAD OF CLEARING WHERE POSSIBLE
5. UTILISATION OF FARMER?S PADDOCKS AND PREVIOUSLY CLEARED AREAS WHERE POSSIBLE
6. UNDERGROUNDING OF CABLES AND DRILLING INSTEAD OF TRENCHING
7. SELECTION OF JOINT AND ENTRY/EXIT HOLE LOCATIONS TO AVOID CLEARING OF (HIGH VALUE) VEGETATION
8. HELICOPTER INSTALLATION INSTEAD OF GROUND WORK
9. EARLY AND CONTINUAL ENGAGEMENT WITH WESTERN POWER ENVIRONMENT TEAM TO HIGHLIGHT PROPOSED RISKS AND AVOID WHERE POSSIBLE
10. USING LARGER LINE SPANS THAT CAN SPAN OVER VEGETATION
11. USING STRUCTURES WITH SMALLER FOOTPRINTS
12. IMPLEMENTING LOWER IMPACT CLEARING METHODOLOGIES, FOR EXAMPLE HAND CLEARING INSTEAD OF MECHANICAL CLEARING"

REFER TO https://www.wa.gov.au/service/environment/environment-information-services/clearing-permits FOR FURTHER INFORMATION ON CLEARING APPROVAL REQUIREMENTS. ADVICE ON RELEVANT EXEMPTIONS CAN BE OBTAINED VIA "DWER'S GUIDE 1 - EXEMPTIONS AND REGULATIONS FOR CLEARING NATIVE VEGETATION" AND CLARIFICATION CAN BE SOUGHT VIA EMAILING DWER DIRECTLY VIA info@dwer.wa.gov.au.

DETAIL B IDENTIFIES THE AREA FOR WHICH CLEARING APPROVALS WILL NEED TO BE OBTAINED AND IN WHICH YOU WILL HAVE TO ARRANGE TO CLEAR/REMOVE ALL VEGETATION AND PREPARE THE SITE AS SPECIFIED IN THE DESIGN DRAWING ON SHEET 1 OF 2.

PLEASE NOTE THAT DWER MAY IDENTIFY THAT THE CLEARING HAS SIGNIFICANT IMPACTS AND THERE MAY BE ADDITIONAL REQUIREMENTS BEFORE OR AFTER DWER ISSUE A CLEARING PERMIT THAT MAY IMPACT THE DELIVERY DATE. THESE MAY INCLUDE FLORA OR FAUNA SURVEY REQUIREMENTS AND HYGIENE MANAGEMENT PLANS.

PLEASE ENSURE YOU PROVIDE THE WESTERN POWER SCOPING SPECIALIST/CONSTRUCTION MANAGER WITH A COPY OF ONE OF THE FOLLOWING AS SOON AS PRACTICABLE FOR REVIEW AND SUITABILITY CONFIRMATION:

- A CLEARING PERMIT; OR
- A REFERRAL DETERMINATION NOTICE ISSUED BY DWER CONFIRMING A CLEARING PERMIT IS NOT REQUIRED; OR
- WRITTEN DETAILS OF A RELEVANT CLEARING PERMIT EXEMPTION AND SUPPORTING DOCUMENTS (INCLUDING ANY REGULATOR CORRESPONDENCE).

FURTHER RELEVANT AND SUPPORTING INFORMATION IS AVAILABLE VIA DWER'S WEBSITE. IF YOU HAVE ANY QUESTIONS ABOUT WESTERN POWER'S REQUIREMENTS, PLEASE CONTACT YOUR ALLOCATED DESIGNER.

LEGEND

SCHEME BDY.
RETAINING WALL
RESTRICTED ZONE
EASEMENT

HV CABLES
CN53 - 400mm2 (3X1c)
CN49 - 240mm2 (3X1c)
CN48 - 185mm2 (3X1c)
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CN43 - 120mm2 (1x3c)
CN42 - 25mm2 (1x3c)
CN41 - 16mm2 SL (1c)
40 C PILOT
EXISTING LV CABLES (SIZE AND TYPE INDICATED)

STREET LIGHTS — EXISTING
42W CFL, 80W MV, 125W MV, 70W HPS, 150W HPS, 250W HPS, 250W HPS AERODROME, 70W MH, 150W MH, 250W MH
1L LED, 2L LED, 3L LED, 4L LED, 5L LED, 6L LED
1E LED, 2E LED, 3E LED, 4E LED, 5E LED, 6E LED
LEGEND DEFINES TYPE & WATTAGE - NOT COLOUR

PILLARS / PITS / ETC
MINI (WORKING END)
UNIVERSAL
MINI
LINK
CABLE MARKER U/G
UMS PIT
UTILITIES PIT
BGSP PIT
100/200AMP CUTOUT
CONDUIT / POLY PIPE
Serviced Uncleared De-energised Lot

TRANSFORMER — EXISTING — SWITCHGEAR

AERIAL CONDUCTORS AND POLES
NEW POLE (ANY TYPE AS INDICATED)
EXISTING POLE (ANY TYPE AS INDICATED)
HV LV EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)

CLEARING AREA - SURVEY PEG SCHEDULE

POINT ID	CLEARING AREA	SURVEY PEG LOCATION	
		EASTING	NORTHING
A	AREA 1	410925.404	6438024.443
B	AREA 1	410968.197	6438030.609
C	AREA 1	410969.909	6438018.731
D	AREA 1	410960.074	6438017.314
E	AREA 1	410960.929	6438011.376
F	AREA 1	410927.971	6438006.627



ISSUED FOR CONSTRUCTION

CRITICAL RISK MANAGEMENT

☒	☒	☒	☒	☒	☒	☐	☒	☐



SAFETY - MAKE IT YOUR PRIMARY VALUE

DESIGNED TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

NO NATIVE VEGETATION MAY BE DISTURBED WITHOUT A PERMIT OR OUTSIDE OF THE PERMIT AREA. IF IN DOUBT, PLEASE CONTACT THE RELEVANT MANAGER WHO WILL CONTACT WESTERN POWER ENVIRONMENTAL TEAM.

PLEASE NOTE: HEAVY PENALTIES MAY APPLY TO INDIVIDUALS AND BUSINESSES FOR DAMAGE TO NATIVE VEGETATION WITHOUT A PERMIT.

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A	ISSUED FOR CONSTRUCTION	D.H.	03/26	HAZARD MANAGEMENT REGISTER

ENVIRONMENTAL DRAWING

LOT 112 #214 ADMIRAL RD

BEDFORDALE WA 6112

NETWORK VOLTAGE: 22kV

DESIGNER: DILUM HEWAGE
DESIGN TEAM: CCS RESI. SOL - RASP
EMAIL: ccs.design.resisolution@westernpower.com.au
TEL: 13 10 87
DATE: 03/26 | SCALE: AS NOTED @ A1
GEO REF: Lat. - 32°11'26" S, Long. - 116°03'19" E

western power

DRAWING NUMBER

MP217798

SHEET 02 OF 02

REV: A | ORIGINAL SIZE - A1