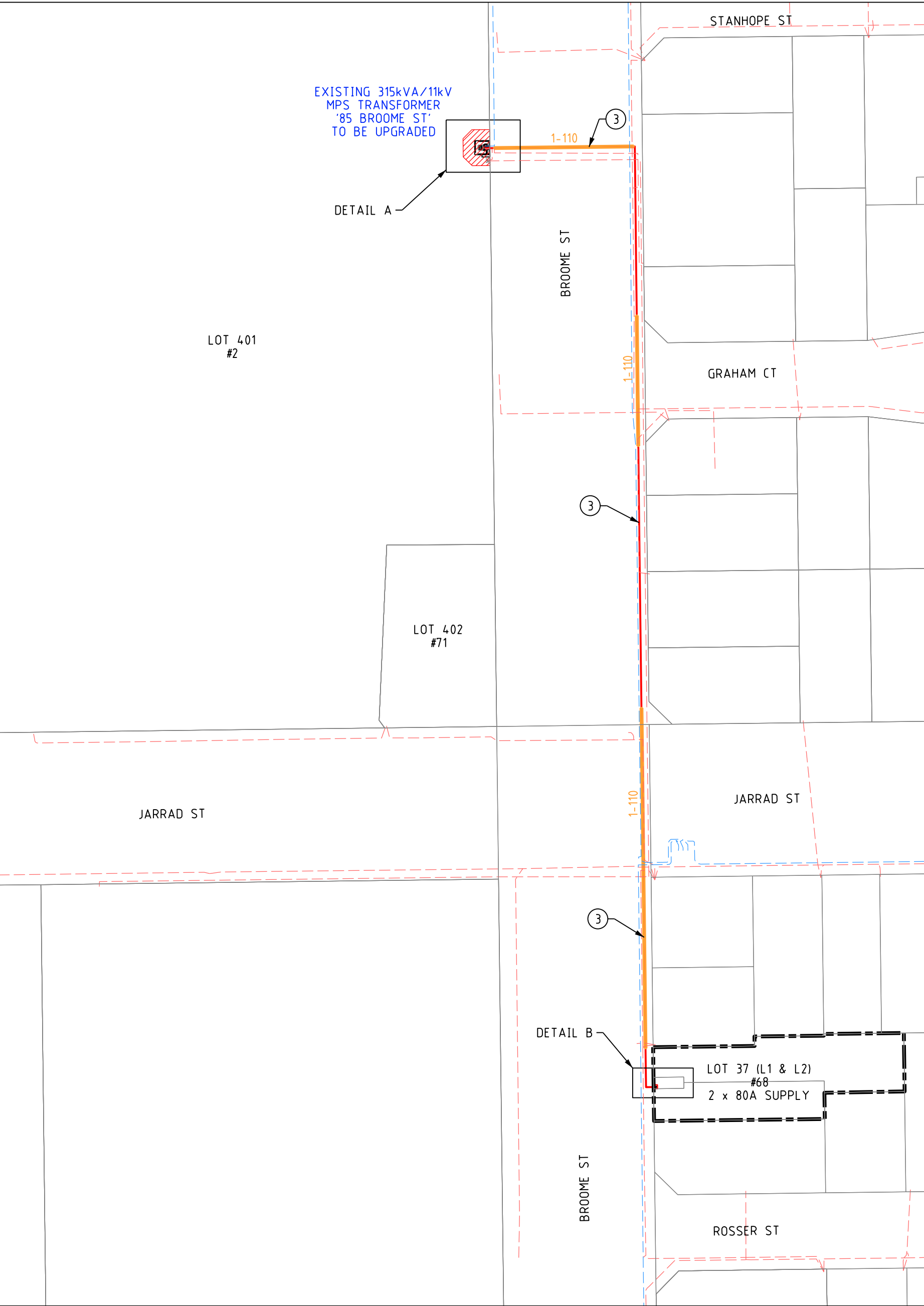
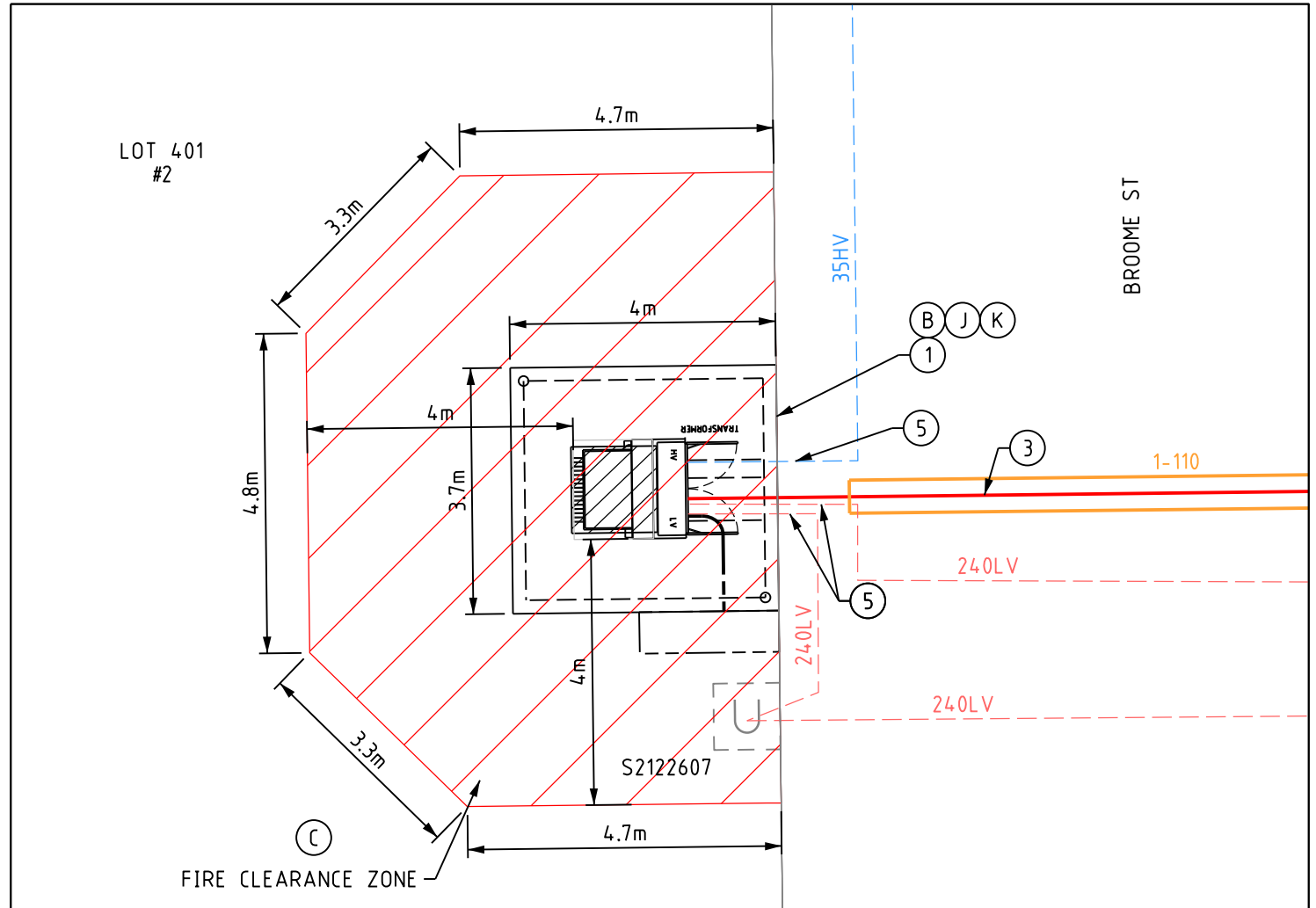


DESIGNED TO BE CONSTRUCTED DE-ENERGISED SAFETY - MAKE IT YOUR PRIMARY VALUE

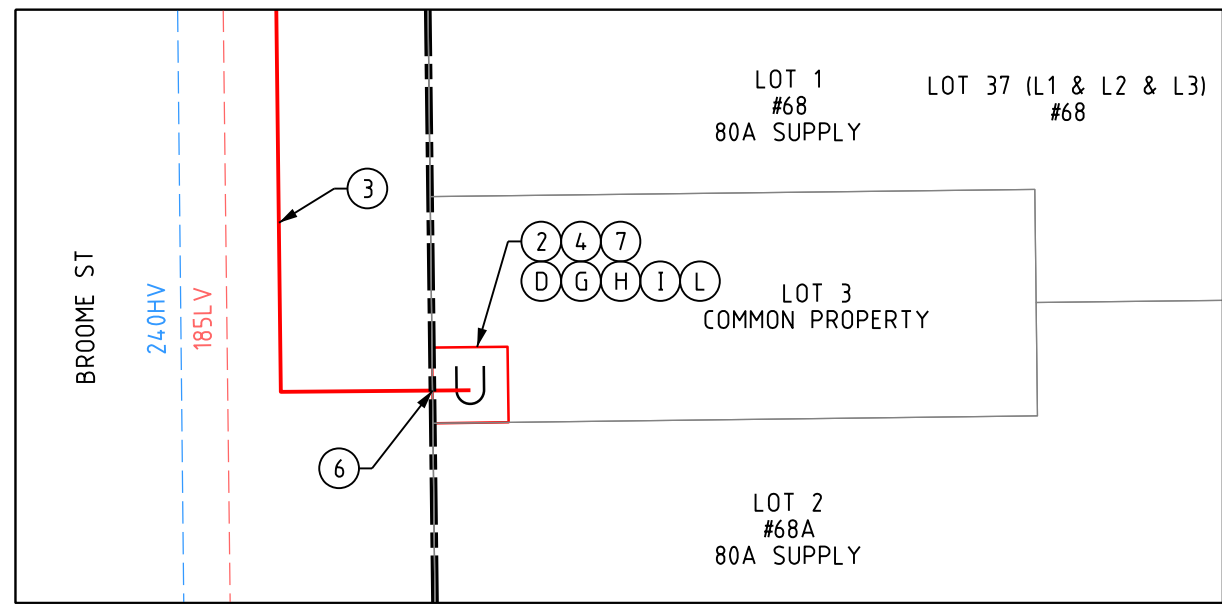


SITE LOCATION

- WESTERN POWER SCOPE OF WORK**
- REPLACE EXISTING 315kVA/11kV MPS TRANSFORMER '85 BROOME ST' WITH NEW 630kVA/11kV MPS TRANSFORMER AS NOTED ON DRAWING DSPM-3-01. INSTALL OIL CONTAINMENT PANEL AND POST WITH RAILWAY BALLAST/FLAME TRAP IN ACCORDANCE WITH WASIR CLAUSE 14.6.5, AND DRAWING DSPM-4-02.
CU = HUS1_630/11 x 1, HU66_22 x 1, HU76_STD x 1, LU14_ x 3
DSPM = DSPM-3-01, DSPM-4-02
 - INSTALL NEW UNI PILLAR ON LOT 37 AS PER ZONE EXCLUSION DETAIL WASIR CL. 12.5.3) AND CUSTOMER PEGGED LOCATION.
CU = LU11 x 1
DCSH = U09
 - INSTALL 240LV CABLE FROM NEW TRANSFORMER LV KIOSK TO NEW UNI PILLAR ON LOT 37.
CU = CN45 x 300, CN54 x 2, CN73_LVMAINS x 7, LU2 x 1
 - INSTALL 200A FUSES AND TERMINATE CUSTOMER CONSUMER MAINS TO TOP BAR OF NEW UNI PILLAR IN CONJUNCTION WITH CUSTOMER ELECTRICAL CONTRACTOR.
CU = LU36_200A x 1
DCSH = U09
 - TERMINATE EXISTING 35HV AND 2 x 240LV CABLES TO NEW TRANSFORMER LV KIOSK. TERMINATE NEW 240LV CABLE TO NEW TRANSFORMER LV KIOSK. LABEL AS REQUIRED.
 - TERMINATE 240LV CABLE TO NEW UNI PILLAR ON LOT 37.
CU = LU7_240 x 1
DCSH = U09
 - REPLACE EXISTING HV FUSE AT FORREST ST RMU (OPP 94 BROOME ST) WITH NEW 50A/11kV HV FUSES AS PER DCCR.
CU = HUS5_630/11
 - ENVIRONMENTAL FILTER CHECKED
- THE FOLLOWING ENVIRONMENTAL ISSUES HAVE BEEN IDENTIFIED FOR THIS PROJECT. ALL RELEVANT PERMITS / PROCEDURES MUST BE OBTAINED / ADHERED TO:
- CLEARING REQUIRED FOR TRANSFORMER UPGRADE. CUSTOMER TO OBTAIN ALL NECESSARY CLEARING PERMITS.
 - HERITAGE AREAS - HERITAGE COUNCIL OF WA: SEA VIEW GOLF COURSE CLUB. CUSTOMER TO OBTAIN ALL NECESSARY APPROVALS.
- PLEASE REFER TO THE ENVIRONMENTAL DRAWING ON SHEET 2 FOR MORE INFORMATION.



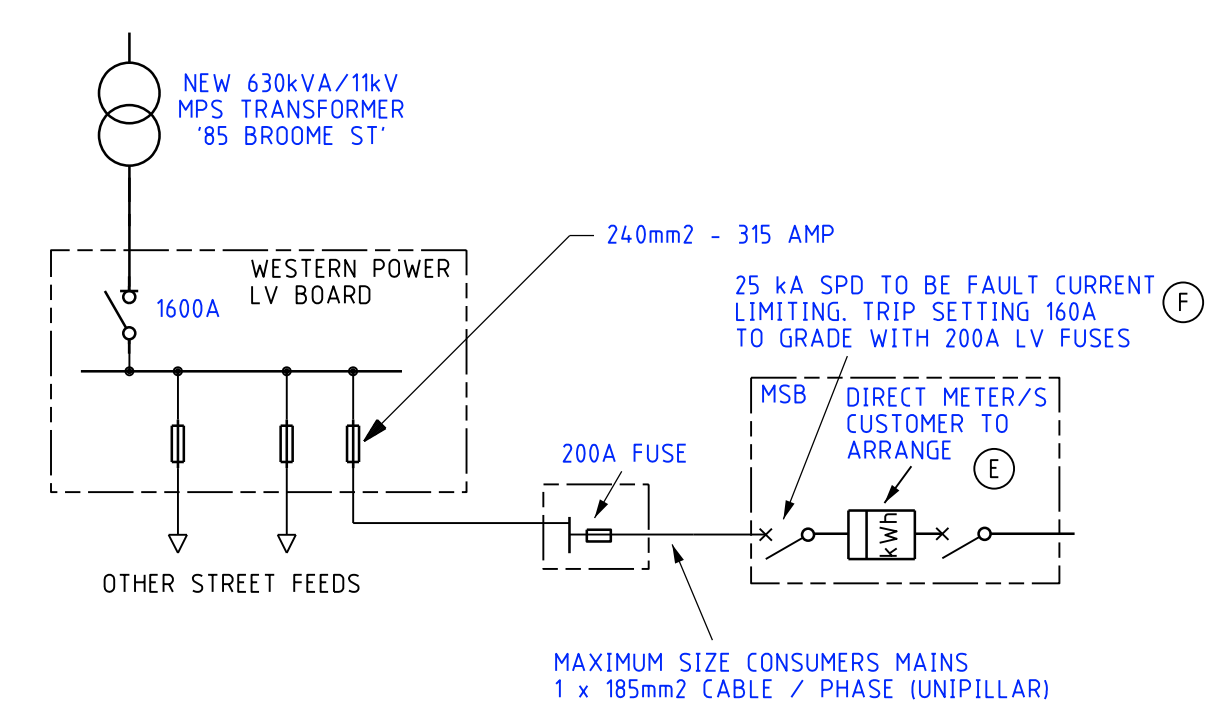
DETAIL A



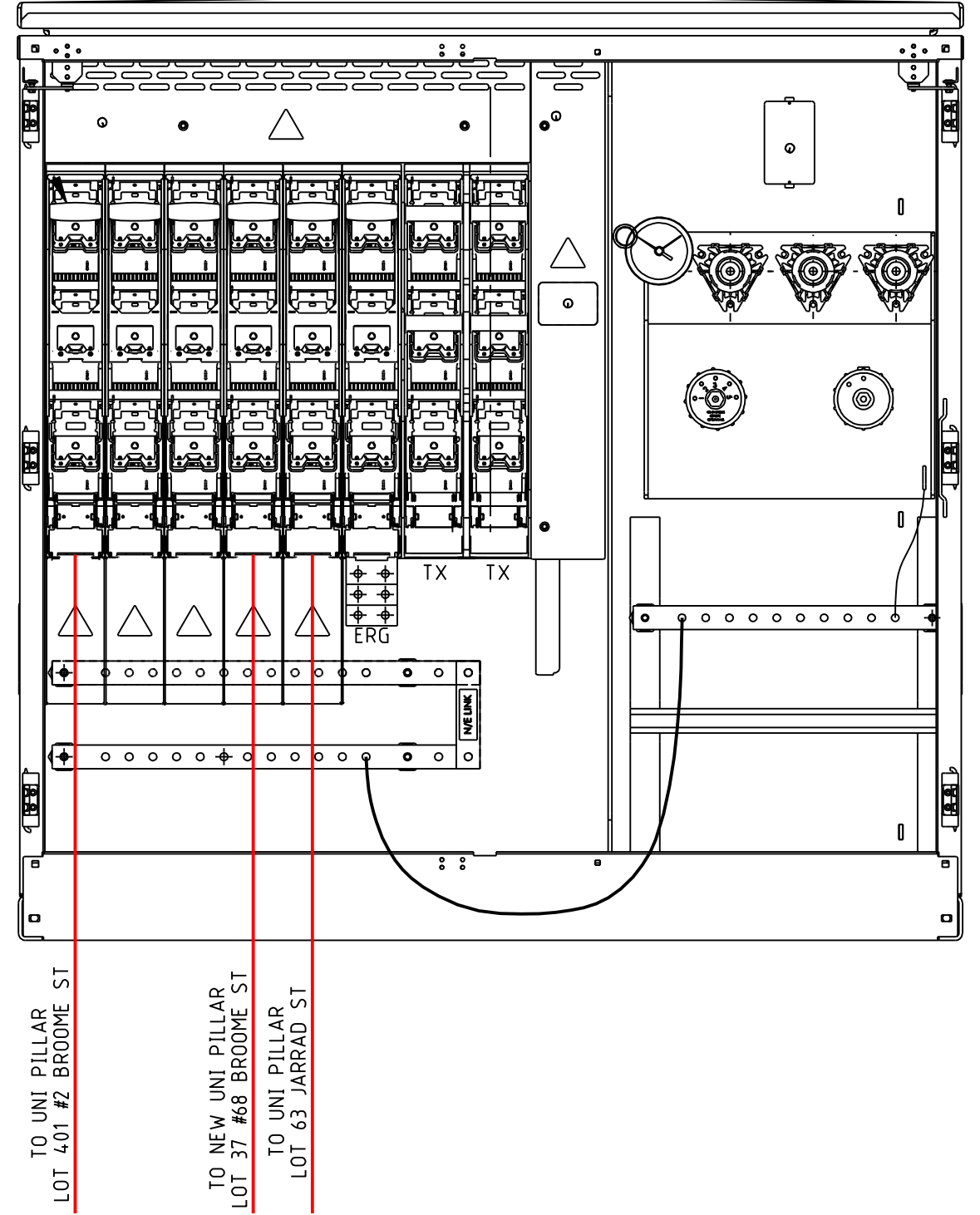
DETAIL B

CUSTOMER SCOPE OF WORK

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS.
- SUBSTATION TO BE DESIGNED TO MINIMUM DIMENSIONS SHOWN ON THE DRAWING AND IN-CONJUNCTION WITH WESTERN POWER'S DRAWING DSPM-3-01.
- NO BUILDINGS ALLOWED WITHIN 4m OF THE SUBSTATION UNLESS 2 HOUR FIRE RATED. SEE WESTERN POWER DRAWING DSM-5-01 FOR DETAILS.
- 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:
 - PEGGING THE PILLAR LOCATION AND ADJACENT BOUNDARY LOCATION PRIOR TO CONSTRUCTION.
 - ONLY EASILY REMOVABLE SURFACE TREATMENT IS TO BE INSTALLED IN THIS AREA, SUCH AS BRICK PAVING.
 - CLEAR OF ALL SERVICES INCLUDING CONTAMINATED SOIL, ASBESTOS ETC.
 - LOCATED 300mm ABOVE 100 YEAR FLOOD LEVEL AND NOT IN A PRECARIOUS POSITION.
- 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, IF REQUIRED, PRIOR TO SUPPLY BEING ENERGISED.
- CUSTOMER ELECTRICAL CONTRACTOR TO ENSURE CUSTOMER'S SPD GRADES WITH WESTERN POWER'S UPSTREAM PROTECTION AS NOTED ON THE SIMPLIFIED LINE DIAGRAM.
- CUSTOMER TO SUPPLY AND INSTALL A STRATA DEVELOPMENT SMSB PRIOR TO THE ENERGISATION OF THE POINT OF SUPPLY.
- CUSTOMER MUST COMPLY WITH POWER QUALITY LIMITS AS PER AS/NZS IS IEC 61000.3.5 AND WESTERN POWER TECHNICAL REQUIREMENTS.
- CUSTOMER ELECTRICAL CONTRACTOR IS TO SUPPLY SUITABLE LUGS AND CRIMPING TOOLS FOR TERMINATION OF CUSTOMERS CABLE.
- CUSTOMER TO OBTAIN APPROVALS/PERMITS AND CLEAR VEGETATION ON LOT 401 AS PER VEGETATION CLEARING REQUIREMENTS ON SHEET 2 OF 2.
- CUSTOMER TO OBTAIN 3RD PARTY APPROVALS MENTIONED IN ITEM 8 OF WESTERN POWER SCOPE IF REQUIRED.
- CUSTOMER SITE MAIN SWITCHBOARD TO BE WITHIN 30m OF POINT OF SUPPLY.
- THIS DESIGN IS INTENDED TO BE CONSTRUCTED DE-ENERGISED. YOUR ELECTRICITY SUPPLY MAY NOT BE AVAILABLE DURING THIS TIME



SIMPLIFIED SINGLE LINE DIAGRAM



NEW TRANSFORMER KIOSK ARRANGEMENT

CRITICAL RISK MANAGEMENT

NO DESIGN CHANGES WITHOUT MANAGER APPROVAL

LEGEND

SCHEME BOY.
RETAINING WALL
RESTRICTED ZONE
EASEMENT

HV CABLES

CN53 - 400mm2 (3X1c)
CN49 - 240mm2 (3X1c)
CN48 - 185mm2 (3X1c)
CN50 - 95mm2 (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 < PILOT

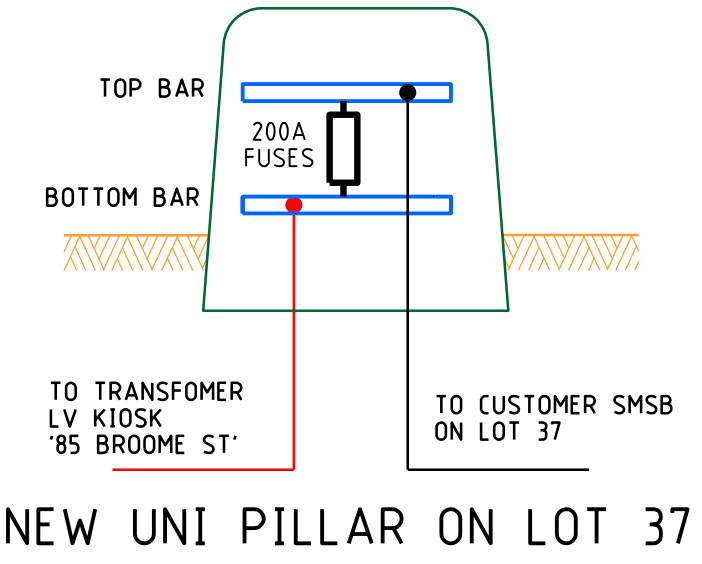
EXISTING LV CABLES
(SIZE AND TYPE INDICATED)

PILLARS / PITS / ETC

MINI (WORKING END) UMS PIT
UNIVERSAL UTILITIES PIT
MINI BGSP PIT
LINK 100/200AMP CUTOUT
CABLE MARKER U/G CONDUIT / POLY PIPE

TRANSFORMER EXISTING SWITCHGEAR

Ⓣ Ⓢ Ⓜ



NEW UNI PILLAR ON LOT 37

ISSUED FOR CONSTRUCTION

ATCO GAS PIPELINE
IN VICINITY OF WORKS

TELSTRA COMMS ASSETS
IN VICINITY OF WORKS

WATER CORP PIPELINE
IN VICINITY OF WORKS

NBN COMMS ASSETS
IN VICINITY OF WORKS

CONSULTANT CONTACT DETAILS
COMPANY NAME: PWA ELECTRICAL SERVICES PTY LTD
CONTACT: NICHOLAS CELENZA TEL: 0467 000 997

SUPPLY UPGRADE - 2 x 32A SUPPLY TO 2 x 80A SUPPLY
RESIDENTIAL SURVEY STRATA
LOT 37 (L1 & L2) #68 BROOME ST, COTTESLOE
NETWORK VOLTAGE: 11kV / 415V

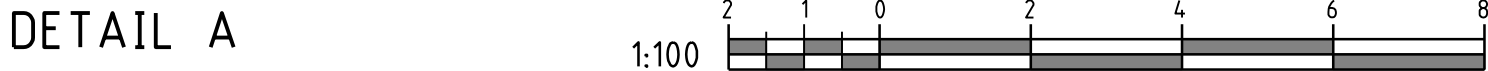
DESIGNER: JOSEPH ESLABON
DESIGN TEAM: CCS DESIGN TEAM D
EMAIL: ccs.design.d@westernpower.com.au
TEL: 13 10 87
DATE: 04/25 SCALE: AS NOTED A1
GEO REF: Lat. - 31°59'58" S
Long. - 115°45'23" E

westernpower

DRAWING NUMBER
MP210585
SHEET 01 OF 02

REV: A ORIGINAL SIZE - A1

Rev.	REVISIONS	DRN	DATE	REFERENCE FILE DETAILS
A	ISSUED FOR CONSTRUCTION	J.E.	04/25	BYDA EDM#: 71604153
1	ISSUED FOR ENGINEERING REVIEW	J.E.	04/25	ENVIRONMENTAL FILTER REPORT EDM#: 71586659 HAZARD MANAGEMENT REGISTER EDM#: 71600355



VEGETATION 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 A 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.

THE IDENTIFIED CLEARING (OR POTENTIAL OF) REQUIRED RUNS ACROSS MULTIPLE LAND TENURES. THE PROPORTIONS AFFECTED ARE IDENTIFIED IN RED IN THE SITE LOCATION PLAN. DWER REQUIRES THAT WRITTEN APPROVAL TO CLEAR FROM THE LANDOWNER OR LAND MANAGER (E.G. LGA, FARMER) BE PROVIDED AS PART OF A CLEARING PERMIT REFERRAL OR APPLICATION.

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 BOY.	
RETAINING WALL	
RESTRICTED ZONE	
EASEMENT	
HV CABLES	
CN53 - 400mm2 (3x1c)	
CN54 - 240mm2 (3x1c)	
CN4.8 - 185mm2 (3x1c)	
CN50 - 95mm2 (3x1c)	
CN51 - 50mm2 (3x1c)	
CN51 - 50mm2 (1c)	
CN4.6 - 35mm2 (3x1c)	
CN4.7 - 35mm2 (1c)	
EXISTING HV CABLES (SIZE AND TYPE INDICATED)	
LV-SL CABLES	
CN4.5 - 240mm2 (3x3c)	
CN4.4 - 185mm2 (3x3c)	
CN4.3 - 120mm2 (3x3c)	
CN4.2 - 25mm2 (3x3c)	
CN4.1 - 16mm2 SL (1c)	
40 c PILOT	
EXISTING LV CABLES (SIZE AND TYPE INDICATED)	
PILLARS / PITS / ETC	
MINI (WORKING END)	UMS PIT
UNIVERSAL	UTILITIES PIT
MINI	BGSP PIT
LINK	100/200AMP CUTOUT
CABLE MARKER U/G	CONDUIT / POLY PIPE
Serviced Unloaded De-energised Lot	

[illegible]

LOT 37 (L1 & L2) #68 BROOME ST, COTTESLOE

VEGETATION CLEARING REQUIREMENTS

DESIGNER: JOSEPH ESLABON	 westernpower	
DESIGN TEAM: CCS DESIGN TEAM D		
EMAIL: ccs.design.d@westernpower.com.au	DRAWING NUMBER	
DATE: 13 10 87	MP210585	
Tel: 04/225 SCALE: A5 NOTED  A1		
GEO REF: Lat. - 31°59'58" S Long. - 115°45'23" E	SHEET 02 OF 02	
	REV: A	ORIGINAL SIZE - A1