

Hundred of MUNNO PARA
in the area named
MUNNO PARA WEST
City of Playford

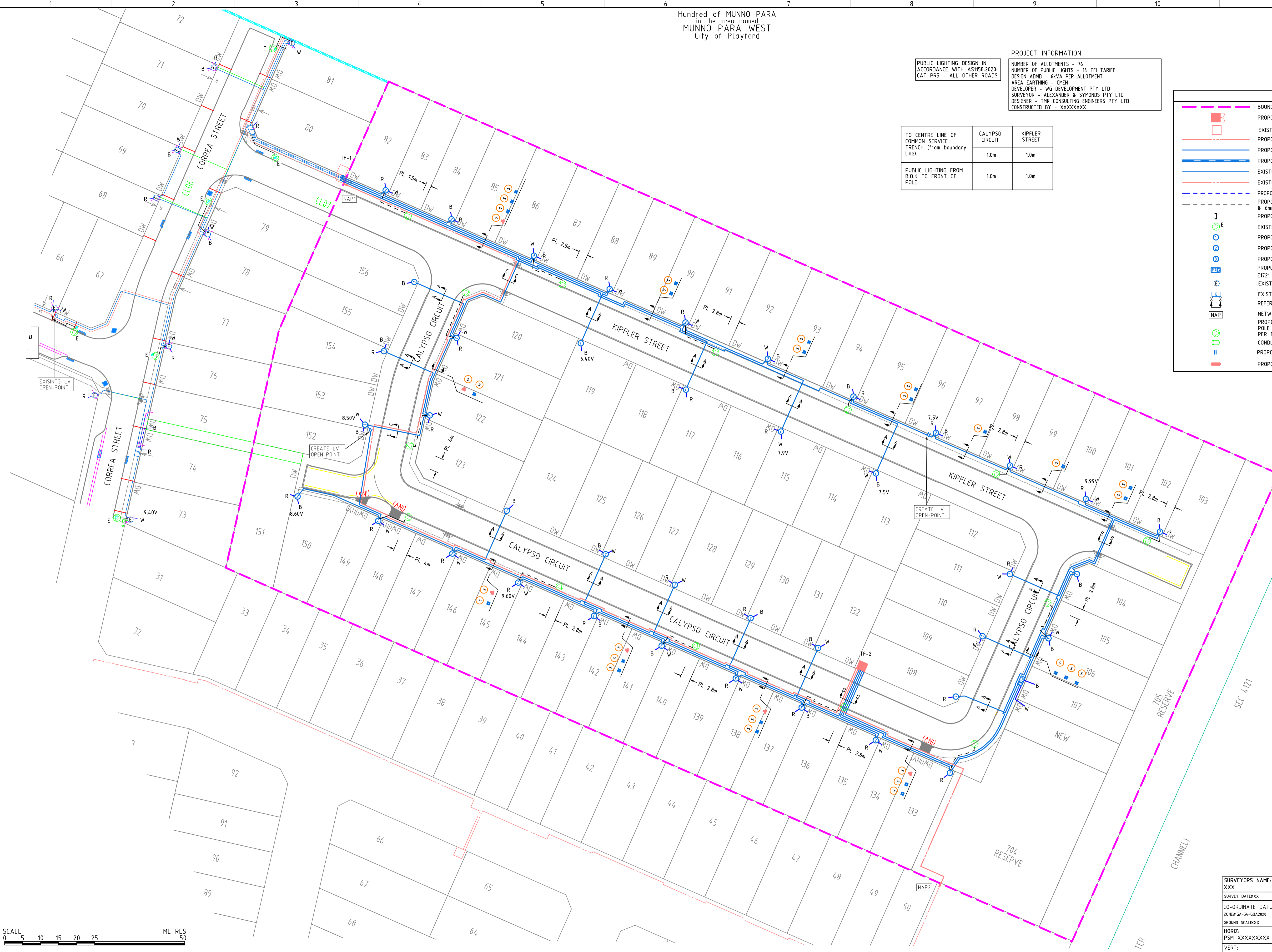
PROJECT INFORMATION

PUBLIC LIGHTING DESIGN IN ACCORDANCE WITH AS158.2020: CAT PRS - ALL OTHER ROADS

NUMBER OF ALLOTMENTS - 76
NUMBER OF PUBLIC LIGHTS - 14 TFI TARIFF
DESIGN ADMD - 6kVA PER ALLOTMENT
AREA EARTHING - CMEN
DEVELOPER - WG DEVELOPMENT PTY LTD
SURVEYOR - ALEXANDER & SYMONS PTY LTD
DESIGNER - TMK CONSULTING ENGINEERS PTY LTD
CONSTRUCTED BY - XXXXXXXX

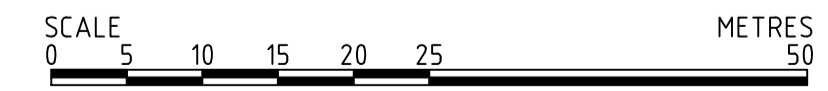
TO CENTRE LINE OF COMMON SERVICE TRENCH (from boundary line).	CALYPSO CIRCUIT	KIPFLER STREET
	1.0m	1.0m
PUBLIC LIGHTING FROM B.O.K TO FRONT OF POLE	1.0m	1.0m

LEGEND	
	BOUNDARY OF DESIGN AREA
	PROPOSED PADMOUNT TRANSFORMER
	EXISTING PADMOUNT TRANSFORMER
	PROPOSED 3x95mm ² 11kV XLPE CABLE
	PROPOSED 4x150mm ² LV UBC XLPE CABLE
	PROPOSED PARALLEL 150mm ² LV UBC XLPE CABLE
	EXISTING 150mm ² LV CABLE
	EXISTING 95mm ² 11kV CABLE
	PROPOSED CONSUMERS CABLES
	PROPOSED PUBLIC LIGHTING CABLE 6mm ² TWIN & 6mm ² EARTH IN 40mm CONDUIT
	PROPOSED CAPPED CABLE
	EXISTING 17W LED SYLVANIA STREETLED3
	PROPOSED FUSED RADIAL PILLAR
	PROPOSED FUSED LOOP PILLAR
	PROPOSED FUSED-T/OFF PILLAR
	PROPOSED TRAFFICABLE P7 JUNCTION PIT WITH GEL PORTS E1721 SHEET 7.3 WITH CONCRETE LID
	EXISTING SERVICE PILLAR
	EXISTING JUNCTION PIT
	REFER TO CROSS SECTION
	NETWORK ACCESS PERMIT REQUIREMENT
	PROPOSED 17W LED SYLVANIA STREETLED3, MOUNTED ON 6.5m POLE LUMINAIRE PER E1743 (EM4022) COLUMN & OUTREACH PER E1723 (WA4101)
	CONDUITS
	PROPOSED LV UNDERGROUND OPEN POINT
	PROPOSED 11kV CABLE JOINT



Civil Environmental Fire Lifts	Structural Geotechnical Electrical Hydraulics Green ESD		JOB No. 2106078
Level 6, 100 Pirie Street, Adelaide SA 5000 Telephone 08 8238 4100 Facsimile 08 8410 1405			DRAWING No. 01

SURVEYORS NAME: XXX	MAP REF: 662819c,d	NBFR NON BUSHFIRE RISK AREA
SURVEY DATE:XXX	GRID REF: 288231.77 E	FEEDER NO:XX-000 FEEDER NAME:XXXXX
CO-ORDINATE DATUM ZONE MGA-54-GDA2020	REF: 6162972.37 N	SUBSTATION NO:SD-000 SUB NAME:XXXXX
GROUND SCALE:XXX		ASSET OWNER:XXXXX
HORIZ: PSM XXXXXXXXXX PLANE		PROJECT DEFINITION: XX-000000
VERT: PSM XXXXXXXXXX AHD	287910.21 E 6162712.07 N	NOTIFICATION TYPE ###
		PRELIMINARY



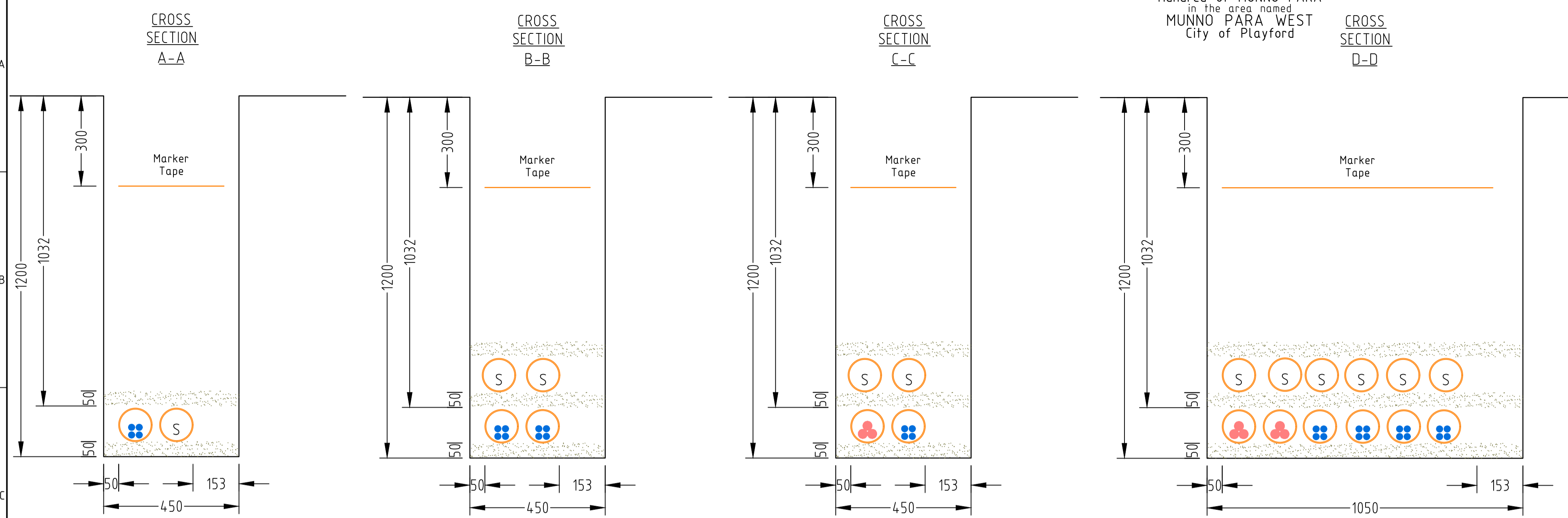
REV	DETAILS OF REVISION	RVD	CKD	INSP	APD	DATE	REV	DETAILS OF REVISION	RVD	CKD	INSP	APD	DATE	REV	DETAILS OF REVISION	RVD	CKD	INSP	APD	DATE	REV	DETAILS OF REVISION	RVD	CKD	INSP	APD	DATE	REV	
A	PRELIMINARY ISSUE	MA	CH			26-10-21																							

DRAWN	M.AHMED	25-10-21	Head Office: 1 Anzac Highway Kewick South Australia 5035
CHECKED	C.HARDING	26-10-21	Postal address: GPO Box 77 Adelaide South Australia 5001
INSPECTED	XXX		Corporate switchboard 08 8404 5667 (9.00am - 5.00pm Monday to Friday) ABN: 13 332 330 749
APPROVED	XXX XXX X		



RD-ARIA PARK DEVELOPMENT STAGE 2
RESIDENTIAL SUB-DIVISION & P/LIGHTING
KIPFLER STREET, MUNNO PARA

SCALE	1:500	A1	XXXXXXX	SHEET 1 OF 2	REV	A
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SCOPE OF WORKS

CONTESTABLE:

- CIVIL CONTRACTOR TO:
 - COMPLY WITH TERMS AND CONDITIONS OF WORKING IN THE VICINITY OF THE ELECTRICITY NETWORK NICC-404 WHEN EXCAVATING NEAR EXISTING SAPN INFRASTRUCTURE.
 - ENGAGE QUALIFIED CABLE LOCATOR, TO IDENTIFY ALL EXISTING SAPN INFRASTRUCTURE ASSOCIATED WITH EACH NETWORK ACCESS PERMIT.
- ELECTRICAL CONTRACTOR TO:
 - CARRY OUT ALL WORK WITHIN THE SUB-DIVISION, INCLUDING PUBLIC LIGHTING
 - OBTAIN NETWORK ACCESS PERMIT FOR WORKING NEAR LIVE NETWORK ASSETS AND EXCAVATION OF JOINTING BAYS TO FACILITATE WORKS. INSTALL ALL CONTESTABLE INFRASTRUCTURE INCLUDING STRAIGHT JOINTS AND TERMINATION, AND ENSURE DOCUMENTED RESULTS OF TESTS TO PROVE THE CONDITION OF THE EXISTING ASSETS ARE FORWARDED TO NPO PRIOR TO WORKS COMMENCING ON SITE. THIS INCLUDES:
 - LV - MEGGER ALL CABLES, PHASE ID ALL CABLES PRIOR TO GIVING ACCESS TO THE CONTRACTOR.
 - HV - MEGGER ALL SCREENS, PHASE ID ALL CABLES & CARRY OUT CORE TO SCREEN/EARTH TEST.
 - EARTH ALL CABLES AS REQUIRED.
 - CONTACT THE NPO FOR DIRECTION IF ANY FAULTS DISCOVERED.
 - PROVIDE SAPN WITH DETAILS OF THE ELECTRICAL INSTALLATION IN THE FORM OF AN "AS CONSTRUCTED" DRAWING, WITHIN 7 DAYS OF SUBMITTING CERTIFICATE OF COMPLIANCE.

NAP 1:

- SUPPLY AND INSTALL 1 SETS OF 3x95mm² HV STRAIGHT JOINT, TO CONNECT NEW 11kV XLPE HV CABLE TO EXISTING CAPPED CABLE AT STAGE BOUNDARY ADJ LOT 82 KIPFLER STREET
- RUN 3 SETS OF 4x150mm² LV CABLES THROUGH EXISTING CONDUITS INTO EXISTING EXISTING TRANSFORMER IN LOT 80 KIPFLER STREET. MAKE READY FOR SAPN TO TERMINATE AND CONNECT.
- NETWORK ACCESS PERMIT REQUIRED.

NAP 2:

- SUPPLY AND INSTALL 1 SETS OF 3x95mm² HV STRAIGHT JOINT, TO CONNECT NEW 11kV XLPE HV CABLE TO EXISTING CAPPED CABLE AT STAGE BOUNDARY ADJ RESERVE
- NETWORK ACCESS PERMIT REQUIRED.

NON-CONTESTABLE:

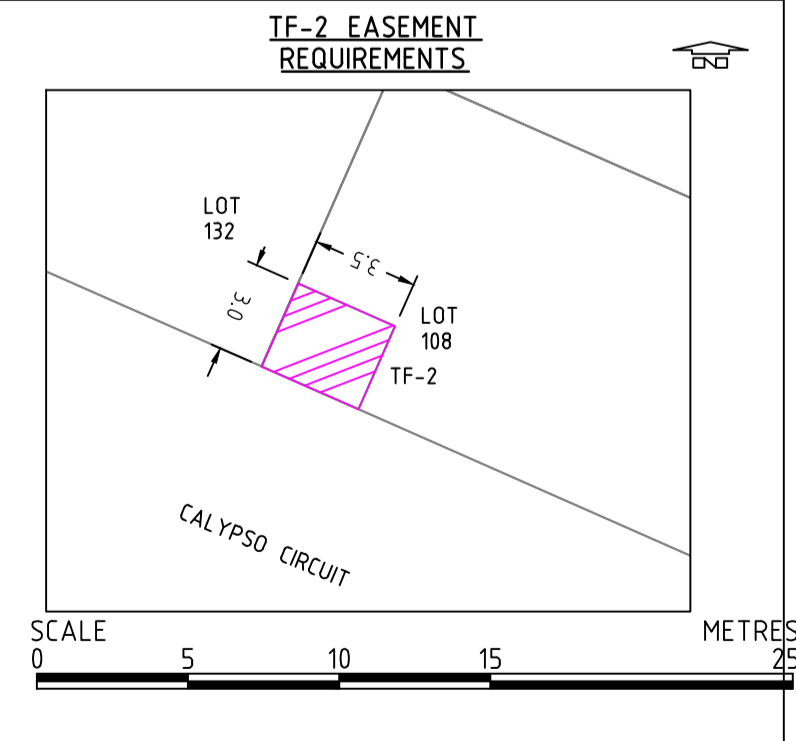
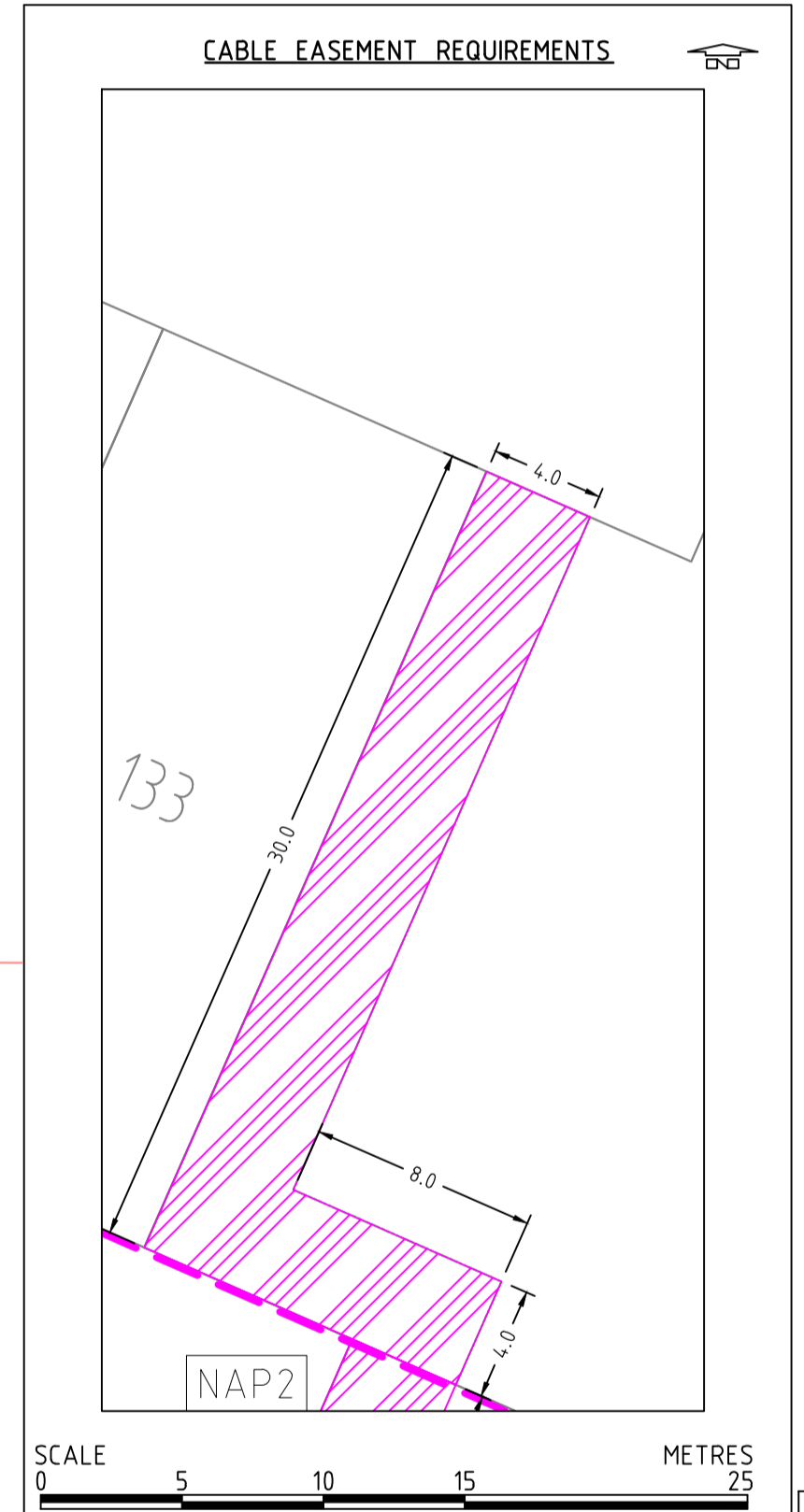
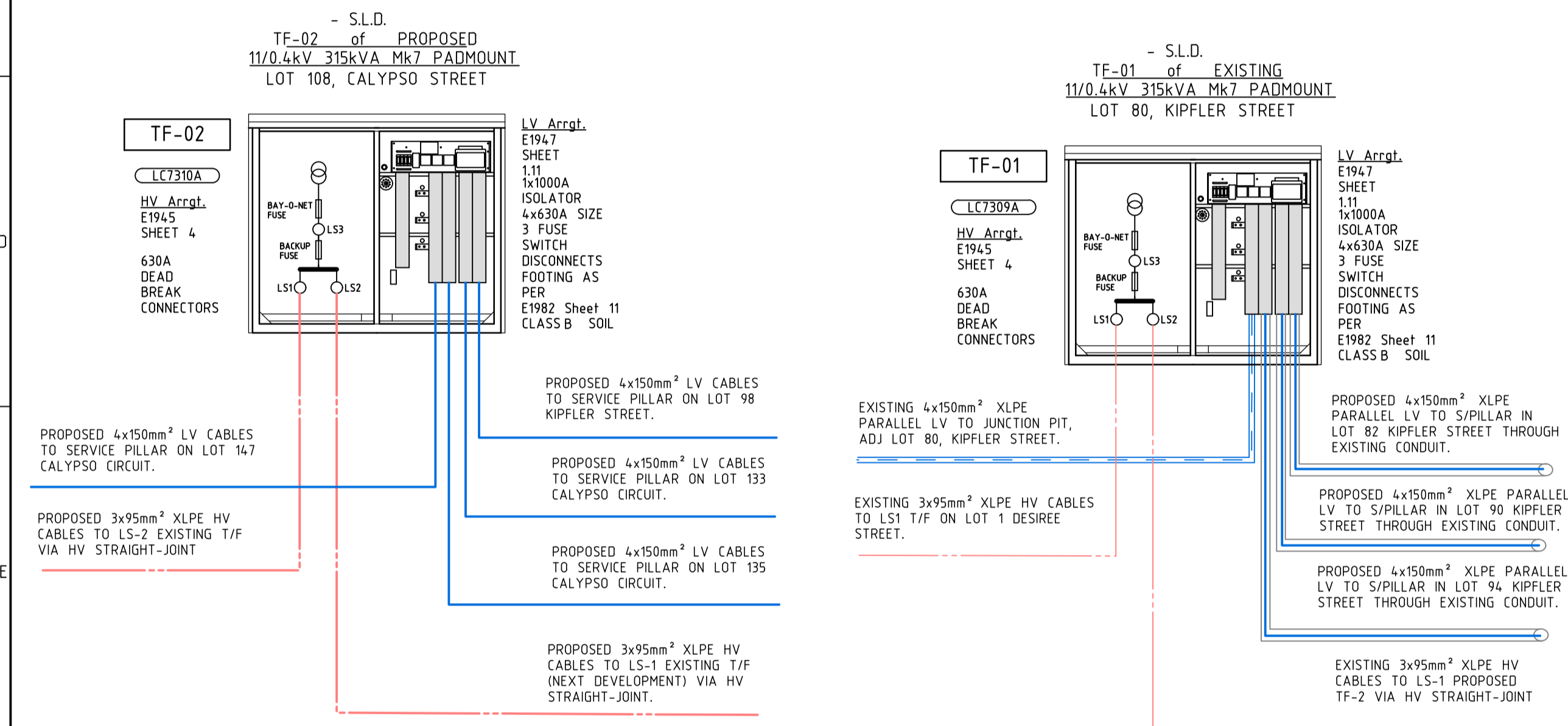
SAPN TO:

- INSPECT EXISTING ASSETS FOR SUITABILITY OF THE PROPOSED WORK
- CARRY OUT TESTING AND ENERGIZING OF COMPLETED DEVELOPMENT ONCE ALL REQUIREMENTS HAVE BEEN COMPLETED, INCLUDING PUBLIC LIGHTING.
- TEST, CONNECT & ENERGISE URD.

NAP 3:

- TERMINATE AND CONNECT 3 SETS OF 4x150mm² LV CABLES INTO EXISTING T/F.

- GENERAL NOTES**
- DUE TO THE SCHEMATIC NATURE OF THESE DRAWINGS, THE POSITION OF ALL EQUIPMENT SHOWN ARE INDICATIVE ONLY AND SHALL NOT BE SCALE OFF. ACTUAL LOCATION ARE TO BE VERIFIED ON SITE.
 - THE DRAWING SHOULD ONLY BE COPIED OR REPRODUCED IN COLOUR.
 - DRAWINGS TO BE READ IN CONJUNCTION WITH THE SA POWER NETWORKS SPECIFICATION DOCUMENTS, TECHNICAL STANDARDS AND E-DRAWINGS.
 - SERVICES OMITTED FROM THESE DRAWINGS FOR CLARITY.
 - CABLES TO BE LAID IN 1x100mm CLASS 6.0 uPVC LD ORANGE CONDUIT AT ALL ROAD CROSSINGS UNLESS OTHERWISE STATED. THE CONDUIT FOR A RADIAL LV INSTALLATION NEEDS TO BE CONTINUOUS (FULLY CONDUITED) WITH LD CONDUIT BETWEEN PILLARS AND INSTALLED IN SUCH A WAY THAT IT WILL FACILITATE QUICK CABLE REPLACEMENT.
 - ALL ROAD CROSSING SPARE CONDUITS SHALL EXTEND INTO THE FOOTPATH VERGE FROM BACK OF KERB.
 - DIRECT BURIED CABLES TO HAVE 1000mm MINIMUM COVER. SPARE CONDUIT SHALL BE PROVIDED AS PER TS-085 CLAUSE 10.0 & 11.0 REQUIREMENT.
 - A REGISTERED EASEMENT IS REQUIRED FOR ALL SAPN CABLES & EQUIPMENT ON PRIVATE PROPERTY. THE DEVELOPER IS RESPONSIBLE FOR MEETING ALL COST ASSOCIATED WITH THE SURVEY, DOCUMENTATION & REGISTRATION OF THE EASEMENT. CABLES THROUGH PRIVATE PROPERTY SHALL BE INSTALLED AS PER TS-085 CLAUSE 10, 11 & 12, AND APPENDIX H. CABLE LOCATION MARKER SHALL BE INSTALLED AS PER TS-085 APPENDIX B IN SAPN CABLE EASEMENT.
 - PHASING OF CONSUMERS ARE AS SHOWN.
 - MINIMUM CLEARANCE TO BE MAINTAINED BETWEEN SA POWER NETWORKS SERVICE POINT AND OTHER SERVICES - REFER TO LATEST SA POWER NETWORKS SERVICE AND INSTALLATION RULES.
 - RETAINING WALLS ARE REQUIRED WHERE ANY CUT OR FILL GREATER THAN 300mm IN AN AREA OF UPTO 2m FROM THE ELECTRICAL EQUIPMENT EASEMENT BOUNDARY AS PER TS-085 & TS-102. THE RETAINING WALL SHALL BE INSTALLED WITHIN THE SAPN REGISTERED EASEMENT, AND COMPLETED PRIOR TO INSTALLATION OF THE PADMOUNT TRANSFORMER OR SWITCHING CUBICLE.
 - ANY CHANGE TO BE MADE ON SITE TO THE LOCATION OF COMMON SERVICE TRENCH, STREET LIGHTS AND ANY ASSOCIATED ELECTRICAL EQUIPMENT SPECIFIED MUST FIRST BE VERIFIED WITH THE ELECTRICAL DESIGN ENGINEER/CONSULTANT, AND THE SAPN NETWORK PROJECT OFFICER (NPO). ANY CHANGE TO WORK WITHIN THE PROPOSED SAPN EASEMENT MUST ALSO BE VERIFIED BY THE PROJECT SURVEYOR.
 - PUBLIC LIGHTING TO BE ALL NIGHT BURNING.
 - PUBLIC LIGHTING TO BE INSTALLED PERPENDICULAR TO BOUNDARY UNLESS ORIENTATION IS SPECIFIED.
 - PUBLIC LIGHTING FUSE PANEL/INSPECTION PLATE ON POLE SHALL BE INSTALLED ON THE SIDE FACING, AND NOT FACING THE PROPERTY BOUNDARY UNLESS OTHERWISE SPECIFIED.
 - ALL WALLS, CEILING AND FLOOR WITHIN 1.2m OF THE PADMOUNT TRANSFORMER STATION SHALL HAVE A MIN. 3HR FIRE RATING AS DETERMINED BY THE BUILDING CODE OF AUSTRALIA.



CALYPSO STREET

KIPFLER STREET

UNFUSED P7 PIT WITH GEL PORTS ARRANGEMENT

Service fuses required in customer's meter box when supplied from unfused P7 junction pit. Install 40mm HD orange electrical conduit from P7 pit to property boundary as per AS/NZS3000.

- For service connections details refer E1921 Sheet 4 and TS-085 for cable entry and exiting positioning.
- For unmetered supply/public lighting supply refer E1921 Sheet 4.3.
- For P7 Gelports pit arrgt. refer DST 1745 Sheet, arrgt. 1, 2 & 3
- For LV main cable junction connection details refer E1921 Sheet 3.3.
- For installation and connection refer E-drawings, JSWP 140 and Field Instruction FI-A1.

The pit may be offset to avoid a driveway by aligning the short side of the pit with the shared side boundary of the property. The mains and service side can be on either the left or right to suit the site installation.

NOTE: Ends of consumers mains to be 600mm into lot boundary, extended above ground level and marked with a 'star dropper' and orange marker tape. Final consumer main locations to be coordinated on site with existing and proposed services.

STANDARD POSITION OF SERVICE PILLAR (LV service pillar, fused position)

Each service pillar to have a 40mm conduit for the allotment on which it is placed, in addition to a neighbour connection shown. (Refer to E1978)

NOTE: With approval from the relevant SA Power Networks manager, the developer can request a non-standard service pillar position.

STANDARD POSITION FOR TRANSFORMERS AND SWITCHING CUBICLES WITHIN EASEMENTS

All transformers and switching cubicles are to be placed centrally on the centreline of easements.

Operating area easement if required

Not to scale or proportion. Refer to TS-102 for details.

DRAWING TO BE READ IN CONJUNCTION WITH SA POWER NETWORKS TECHNICAL STANDARDS OUTLINE BELOW, BUT NOT LIMITED TO:

(TS-085) TRENCHING AND CONDUIT STANDARD FOR UNDERGROUND DISTRIBUTION CABLE NETWORKS

(TS-087) CONSTRUCTION STANDARD FOR UNDERGROUND CABLE NETWORKS

(TS-099) DISTRIBUTION AND SUB-TRANSMISSION CAD DRAFTING STANDARDS

(TS-100) ELECTRICAL DESIGN STANDARD FOR UNDERGROUND DISTRIBUTION CABLE NETWORKS

(TS-101) PUBLIC LIGHTING STANDARD FOR OVERHEAD AND UNDERGROUND NETWORKS

(TS-102) EASEMENT STANDARD FOR DISTRIBUTION NETWORKS

(TS-105) CONSTRUCTION STANDARD FOR TESTING UNDERGROUND AND OVERHEAD NETWORKS

(TS-107) OVERHEAD LINE DESIGN STANDARD FOR TRANSMISSION & DISTRIBUTION SYSTEM

(TS-109) EARTHING OF THE DISTRIBUTION NETWORK

(NICC-400) INFORMATION FOR AN APPLICANT UNDERTAKING A CONTESTABLE EXTENSION

(NICC-404) WORKING IN THE VICINITY OF SA POWER NETWORKS INFRASTRUCTURE - NETWORK ACCESS PERMIT PROCESS.

(NICC-802) 11kV AND 7.6kV TO LOW VOLTAGE MK7 PADMOUNT TRANSFORMERS

Visit <http://www.sapowernetworks.com.au/centralcontractorsanddesigners/technicalstandards.jsp> to view current revision of Technical Standards

SPARE CONDUITS REQUIREMENTS TO TS-085:

1x 100mm CLASS 6.0 uPVC LD ORANGE CONDUIT PER LV CIRCUIT.

1x 100mm CLASS 6.0 uPVC LD ORANGE CONDUIT PER HV CIRCUIT.

CONDUITS TO BE LAID ADJACENT CABLES IF SPACE PERMITS - OTHERWISE LAY CONDUIT ABOVE CABLES WITH 50mm SEPARATION ABOVE CABLES. BEDDING SAND REQUIRED AROUND ALL CABLES AND CONDUITS. PROVIDE END CAPS FOR VACANT CONDUITS, NO DRAW ROPE REQUIRED. BENDS REQUIRED FOR ANGLES OF LESS THAN 90° E.G. OTHER THAN STREET INTERSECTIONS. MINIMUM COVER OVER CONDUITS 0.75m.

BEDDING SAND FOR SAPN URD CABLE TRENCHES:

PM64 AND DS48 SAND WITH A BEDDING SAND PERMITTED TEST VALUE OF 100% PASSING THROUGH A 4.75 GRADING SIEVE IS ACCEPTABLE. DEVELOPERS MUST SATISFY SAPN WITH A TEST REPORT THAT THE SAND COMPLIES WITH SAPN REQUIREMENT IN THE EVENT OF A DISPUTE.

ATTENTION:

PRIOR TO COMMENCING ANY CONSTRUCTION WORKS THE CONTRACTOR SHALL LOCATE AND DEPTH ALL EXISTING UNDERGROUND SERVICES IN THE VICINITY OF THE WORKS.

IT SHOULD BE NOTED THAT THERE MAY BE OTHER EXISTING UNDERGROUND SERVICES IN THE VICINITY OF THE WORKS, OTHER THAN THOSE SHOWN ON OUR DRAWINGS.

IT SHALL BE THE CONSTRUCTOR'S RESPONSIBILITY TO DETERMINE IF OTHER UNDERGROUND SERVICES ARE PRESENT AND HAVE ALL SERVICES LOCATED AND DEPTH PRIOR TO COMMENCING WORKS.

Civil Environmental Mechanical Fire Lifts

Structural Geotechnical Electrical Hydraulics Green ESD

Level 6, 100 Pine Street, Adelaide SA 5000
Telephone 08 8238 4100
Facsimile 08 8410 1405

JOB No. 2106078
DRAWING No. 01

SURVEYORS NAME: XXXX	MAP REF: 662819c,d	NBFR4 NON BUSHFIRE RISK AREA
SURVEY DATE: XXXX	GRID REF: 288231.77	FEEDER NAME: XXXX
CO-ORDINATE DATUM: ZONE MGA-54-00A2020	REF: 6162972.37	SUBSTATION NAME: XXXX
HORIZ: PSM XXXXXXXXX PLANE		ASSET OWNER: XXXX
VERT: PSM XXXXXXXXX AHD		PROJECT TYPE: --
	287910.21 E	PRELIMINARY
	6162712.07 N	

DRAWN	M.AHMED	25-10-21	Head Office: 1 Anzac Highway, Keswick South Australia 5035
CHECKED	C.HARDING	26-10-21	Postal address: GPO Box 77, Adelaide South Australia 5001
INSPECTED	XXX		Corporate switchboard: 08 8404 5667 (9:00am - 5:00pm Monday to Friday)
APPROVED	XXX		Adm: 03 332 330 749
	X		

RD-ARIA PARK DEVELOPMENT STAGE 2
RESIDENTIAL SUB-DIVISION & P/LIGHTING
KIPFLER STREET, MUNNO PARA

SA Power Networks

SCALE: 1:500 | A1 | XXXXXXXX | SHEET 2 OF 2 | REV A