THIS DRAWING TO BE READ IN CONJUNCTION
WITH THE FOLLOWING SA POWER NETWORKS TECHNICAL STANDARDS

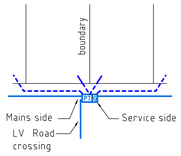
TS-085	Trenching and Conduit Standard for Underground Distribution Cable Networks
TS-087	Construction Standard for Underground Cable Networks
TS-100	Electrical Design Standard for Underground Distribution Cable Networks
TS-101	Public Lighting Standard for Overhead & Underground Networks
TS-102	An Easement Standard for Distribution Networks
TS-103	General Standard for Connection to the Electricity Network
TS-104	General Standard for Underground Residential Distribution of Electricity
TS-105	Testing for Underground & Overhead Networks
TS-107	Overhead Line Design Standard for Transmission & Distribution Systems
TS-108	Technical Standard for Distribution Equipment and Transformer Rooms

Visit http://www.sapowernetworks.com.au/centric/contractors_and_designers/technical_standards.jsp to view current revision of Technical Standards

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.

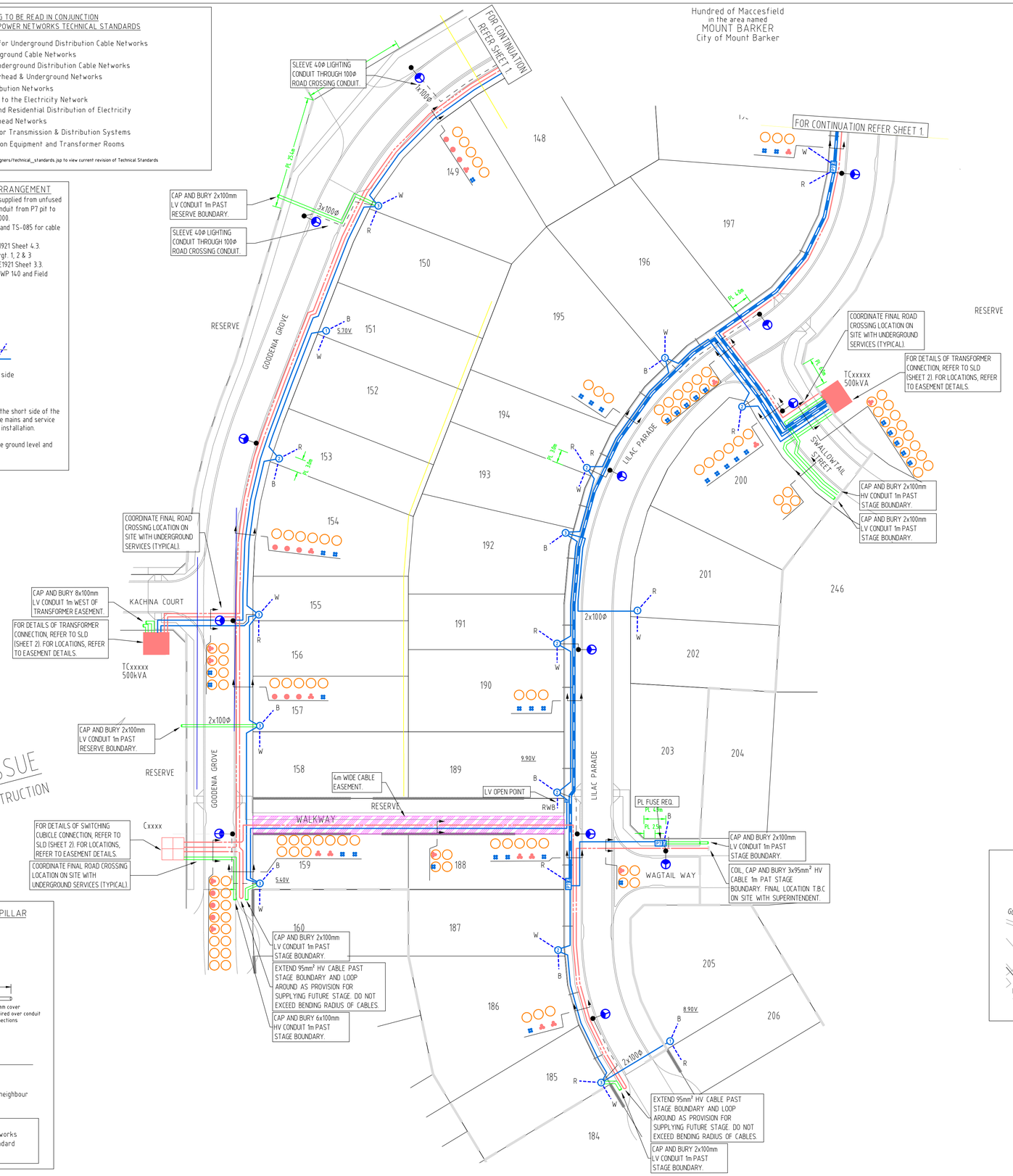
- For service connections details refer E1921 Sheet 4 and TS-085 for cable entry and exiting positioning.
- For unmetered supply/public lighting supply refer E1921 Sheet 4.3.
- For P7 Gelports pit arrgt. refer DST 1745 Sheet, arrgt. 1, 2 & 3
- For LV main cable junction connection details refer E1921 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 extended above ground level and marked with a 'star dropper' and orange marker tape.

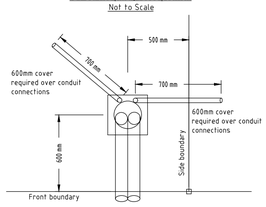
Hundred of Maccesfield
in the area named
MOUNT BARKER
City of Mount Barker



PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION
30 JANUARY 2018

STANDARD POSITION OF SERVICE PILLAR

(LV service pillar, fused position)
Not to Scale



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.

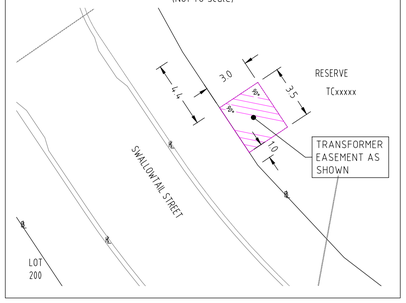
LEGEND

- EXISTING 11kV OVERHEAD MAINS
- EXISTING LV OVERHEAD MAINS TO BE REMOVED
- PROPOSED 3x630mm² 11kV XLPE CABLE (CK6039)
- PROPOSED 3x95mm² 11kV XLPE CABLE (CK6006)
- EXISTING 3x630mm² 11kV XLPE CABLE
- EXISTING 3x95mm² 11kV XLPE CABLE
- PROPOSED PARALLEL 150mm² LV UBC XLPE CABLE (CK5310)
- PROPOSED 150mm² LV UBC XLPE CABLE (CK5310)
- EXISTING 150mm² LV UBC XLPE CABLE
- PROPOSED PUBLIC LIGHTING CABLE 6mm² TWIN & 6mm² EARTH IN 40mm CONDUIT
- PROPOSED 40mm HD ORANGE ELECTRICAL CONDUIT & DRAW ROPE FOR CONSUMERS MAIN TOAS/NZS 3000. DEPTH 800mm. REFER TYPICAL CST CROSS SECTION & STANDARD SA POWER NETWORKS SERVICE PIT LOCATION ARRANGEMENT.
- PROPOSED LV UNDERGROUND OPEN POINT
- PROPOSED SPARE CONDUITS
- LV/HV CABLES CAPPED IN CABLE PIT E1926/E1979
- BOUNDARY/PROPERTY LINE
- KERB LINE

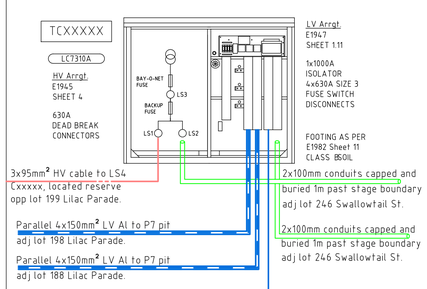
- P7 2 — TRAFFICABLE P7 UNFUSED LV JUNCTION PIT WITH GELPORTS. P7 PIT TO BE REINFORCED WITH 200mm CONCRETE SURROUND, N12 BAR TOP AND BOTTOM 480mm DEEP AND STEEL LID AS PER E1921 SHT 7.3
- 1 — PROPOSED FUSED RADIAL PILLAR.
- 2 — PROPOSED FUSED LOOP PILLAR.
- 3 — PROPOSED FUSED-T/OFF PILLAR.
- PROPOSED PADMOUNT TRANSFORMER
- PROPOSED SWITCHING CUBICLE
- EXISTING 11kV POLEMOUNT TRANSFORMER TO BE REMOVED
- LS — EXISTING 11kV LOAD SWITCH TO BE REMOVED
- EXISTING POLE
- EXISTING POLE TO BE REMOVED
- 17W AEROSCREEN LED, 4000K, BLACK FINISH (EM4004) MOUNTED ON BLACK 6.5m MODERN COLUMN WITH 1.5m DECORATIVE MODERN OUTREACH (WA4017).
- B — 35W AEROSCREEN LED, 4000K, BLACK FINISH (EM4010) MOUNTED ON BLACK 6.5m MODERN COLUMN WITH 1.5m DECORATIVE MODERN OUTREACH (WA4017).
- 105W LED, 4000K, BLACK FINISH (EM4110), MOUNTED ON BLACK 9.0m IMPACT ABSORBING COLUMN (WA4113) WITH SINGLE 3.0m MODERN OUTREACH (WA4531).
- 105W LED, 4000K, BLACK FINISH (EM4110), MOUNTED ON BLACK 9.0m IMPACT ABSORBING COLUMN (WA4113) WITH DOUBLE 3.0m MODERN OUTREACH (WA4530).
- FT — 105W LED, 4000K, BLACK FINISH (EM4111), MOUNTED ON BLACK 9.0m IMPACT ABSORBING COLUMN (WA4113) WITH SINGLE 3.0m MODERN OUTREACH (WA4531).

PROPOSED SA POWER NETWORKS TRANSFORMER LOCATION AND EASEMENT DETAILS

(Not to scale)

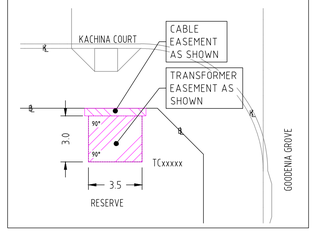


S.L.D. OF PROPOSED 11/0.4kV 500kVA LOOP Mk7 PADMOUNT TRANSFORMER TCXXXXX - (LC7310A) RESERVE OPP LOT 200 SWALLOWTAIL STREET



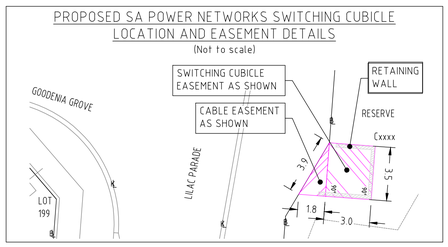
PROPOSED SA POWER NETWORKS TRANSFORMER LOCATION AND EASEMENT DETAILS

(Not to scale)



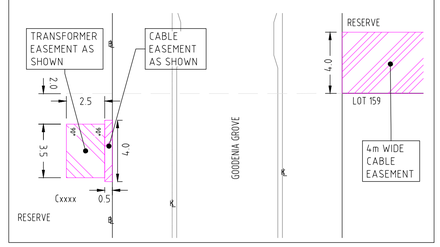
PROPOSED SA POWER NETWORKS SWITCHING CUBICLE LOCATION AND EASEMENT DETAILS

(Not to scale)



PROPOSED SA POWER NETWORKS SWITCHING CUBICLE LOCATION AND EASEMENT DETAILS

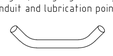
(Not to scale)



CONDUIT BEND DETAIL

(not to scale)

All conduit bends to contain 45° angles, using High Density conduit and lubrication points.



WGA
WALLBRIDGE GILBERT AZTEC

AS1158.3.1:2005
LIGHTING DESIGN — ROAD CATEGORY

- HEYSEN BLVD — V5
- LILAC PARADE (DEVELOPMENT ENTRANCE) — V5
- ALL OTHER ROADS — P4

DATE: 12/09/2017

NAME: L Lukanov (Associ IES)

SCALE 0 5 10 15 20 25 METRES 50

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 5000xxxxx SHEET 1

EDGE OF COMMON SERVICE TRENCH (from boundary line)	0.5m
PUBLIC LIGHTING ALIGNMENT (from back of kerb)	1.0m

DESIGN INFORMATION
Termite resistant cable: Yes
Earthing: CMEN
The Design ADMD / lot: 8 kVA

NOTE:
Any changes to be made on site to the location of the common service trench, and/or electrical & street lighting equipment must first be verified by the electrical designer and the project manager/engineering consultant. Any changes to work within proposed SA Power Networks easements must also be verified by the project surveyor.

DRAWING No. ADL161322-162.dwg

WGA
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60 Wyatt Street, Adelaide
South Australia 5000
Telephone 08 8223 7433
Email adelaide@wga.com.au

ZONE:MGA-54-GDA94
MAP REF: 6627-07-q
GRID REF: 303463.70 E 6114841.70 N
303284.00 E 6114616.00 N

HBFRA HIGH BUSHFIRE RISK AREA
FEEDER NO: XX-000
FEEDER NAME: XXX
SUBSTATION NO: SSD-777
SUBSTATION NAME: Mt Barker Distribution
ASSET OWNER: SA POWER NETWORKS

PROJECT DEFINITION:	NOTIFICATION TYPE	PROJECT TYPE
XX-000000	CN	RD

PRELIMINARY

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
C	PRELIMINARY ISSUE - STAGE SPLIT TO 1A & 1B	WGA	MD	AI	30.01.18
B	PRELIMINARY ISSUE	WGA	MD	AI	08.11.17
A	PRELIMINARY ISSUE	WGA	MD		20.09.17

DRAWN	L LUKANOV	19.09.17
DESIGNED	L LUKANOV	19.09.17
CHECKED	M DENNES	20.09.17
PROJECT MANAGER	R GEUE MT BARKER (08) 8391 7721	

Head Office:
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Postal address:
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Adelaide South Australia 5001
Corporate switchboard
08 8404 5667
(9.00am - 5.00pm
Monday to Friday)

SA Power Networks
www.sapowernetworks.com.au

CLOVER PARK - STAGE 1B
PROPOSED UNDERGROUND RESIDENTIAL DEVELOPMENT
DEV. No. 580/D030/15

SCALE			REV
1:500	A1	5000XXXXX SHEET 2 OF 2	C