LUCID CONSULTING AUSTRALIA

AS1158.3.1:2005
LIGHTING DESIGN — ROAD CATEGORY

- BUTLER CRESCENT — P4
- KAPUNDA STREET AND SIR SIDNEY KIDMAN BOULEVARD — P3

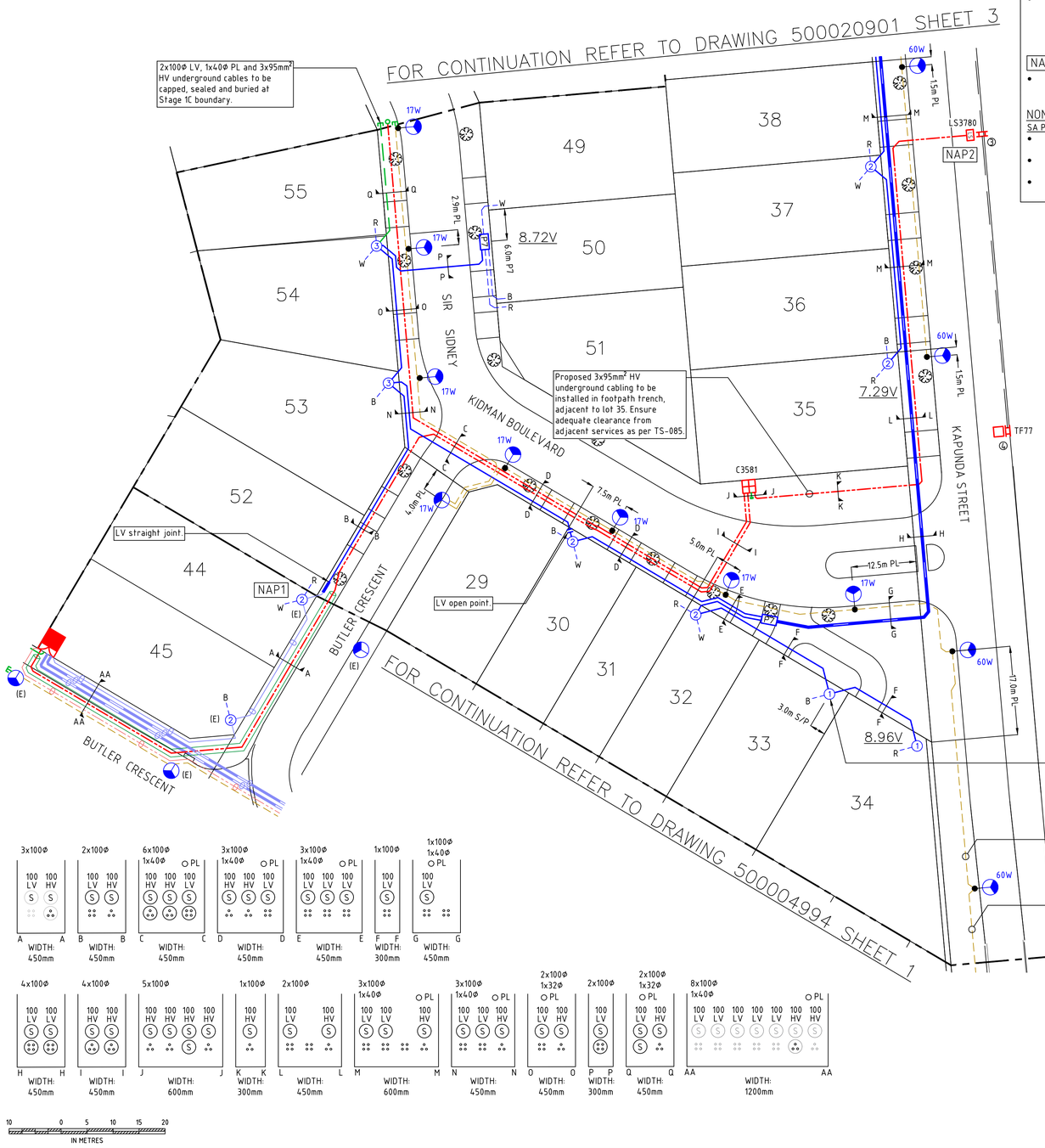
DATE: 22.05.2019

NAME: M. Scanlan

Drawing to be read in conjunction with the following SA Power Networks specification documents.
Please note: It is the responsibility of the Constructor to refer to the most recent standard

Specification
Trenching & Conduit Standard (TS-085)
Construction Standard (TS-087)
Distribution and Sub-Transmission CAD Drafting Standards (TS-99)
Electrical Design Standard for Underground Cable Networks (TS-100)
Public Lighting Standard for Overhead & Underground Networks (TS-101)
Easement Standards (TS-102)
Testing Standard for Underground Cable Networks (TS-105)
Earthing of the Distribution Network (TS-109)
Cable Standard for 66kV Underground Cable (TS-110)
Information for an Applicant Undertaking a Contestable Extension (NICC-400)
Working in the Vicinity of SA Power Networks Infrastructure - Network Access Permit Process (NICC-404)

Hundred of Kapunda
in the area named
Kapunda
LIGHT REGIONAL COUNCIL



SCOPE OF WORKS - (For Sheet 2 of 3)

CONTESTABLE WORKS

Electrical Contractor to:

- Supply and install all HV cabling, LV cabling and infrastructure (including public lighting).
- Supply and install switching cubicle C3581 in reserve adjacent to lot 35 Sir Sidney Kidman Boulevard.
- All jointing bay excavation to be carried out by civil contractor.
- All civil works to be carried out by approved civil contractor.

NAP1

- Supply and install new 4x150mm² LV underground cables from service pillar on lot 53 Sir Sidney Kidman Boulevard. Cap and seal cables adjacent to lot 52 Butler Crescent. LV straight joint installation and cable termination to be managed by Contractor.
- Supply and install 3x95mm² HV underground cable from LS2 of C3581, in reserve adjacent to lot 35 Sir Sidney Kidman Boulevard, through existing conduit capped and buried at stage boundary adjacent to lot 44/52 on Butler Crescent. Cap and bury cable adjacent to TC62148 on lot 45 Butler Crescent. SA Power Networks to manage termination into LS2 of energised transformer.

NAP2

- Cap and seal 3x95mm² HV underground cable and coil on "Pole 3". SA Power Networks to manage connection and termination of cable into HV load break switch mounted to "Pole 3".

NON CONTESTABLE WORKS

SA Power Networks to:

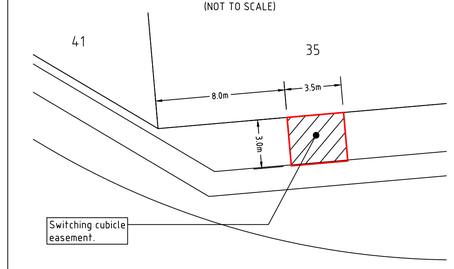
- Install and terminate proposed 3x95mm² HV underground cable into LS2 of TC62148 Lot 45 Butler Crescent.
- Installation of load switch LS3780 on "Pole 3". 3x95mm² HV underground cable coiled on "Pole 3" to be connected and terminated into LS3780.
- Carry out testing and then, upon successful compliance testing, complete connections and energisation of the development.

LEGEND

- Proposed 3x95mm² 11kV AL XLPE cable.
- Proposed 4x150mm² LV UBC XLPE cable.
- Proposed parallel 4x150mm² LV UBC XLPE cable.
- Existing 4x150mm² LV UBC XLPE cable.
- Existing parallel 4x150mm² LV UBC XLPE cable.
- Proposed P/L wiring 6.0mm² Cu PVC twin & 6.0mm² Cu PVC earth (private council cabling system).
- Proposed spare conduit.
- Proposed private consumers mains to be installed by contractor.
- Proposed HV Straight Joint.
- Proposed LV Straight Joint.
- Existing stobie pole.
- HV —— HV — Existing overhead HV conductors.
- (E) Existing infrastructure.
- Stage boundary.
- 11kV conversion to 3Ø.
- ① Proposed radial fused LV service pit.
- ② Proposed fused loop pillar.
- ③ Proposed fused tee-off pillar.
- P7 Proposed P7 unfused LV junction pit.
- Proposed padmount transformer.
- Proposed switching cubicle.
- Proposed private 17W Sylvania Street LED 3 semi cut-off luminaire in black finish mounted on 4.5m plain post top pole in black, wired to metered supply.
- 17W Proposed private 17W Sylvania Street LED 3 semi cut-off luminaire in black finish mounted on 6.5m residential column in black, wired to metered supply.
- 60W Proposed private 60W RoadLED Midi Aeroscreen LED luminaire in black finish with 9.0m impact absorbing column in black.

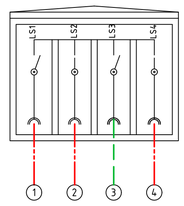
PROPOSED SWITCHING CUBICLE C3581 EASEMENT

Located adjacent to lot 35 Sir Sidney Kidman Boulevard
(NOT TO SCALE)



PROPOSED SWITCHING CUBICLE C3581

Located on Reserve adjacent Lot 35 Sir Sydney Kidman Boulevard



① 3x95mm² HV underground cables to be capped, sealed and buried 1.0m past Stage 1C boundary, adjacent to lot 55 Sir Sidney Kidman Boulevard.

② 3x95mm² HV underground cables to be connected to LS2 of TC62148 on lot 45 Butler Crescent via existing conduits capped, sealed and buried at Stage 1B/C boundary, at allotment 44/52 on Butler Crescent. SA Power Networks to terminate cable into energised transformer.

③ 2x100Ø conduits to be capped, sealed and buried 1.0m in front of C3581 on reserve adjacent to lot 35 Sir Sidney Kidman Boulevard.

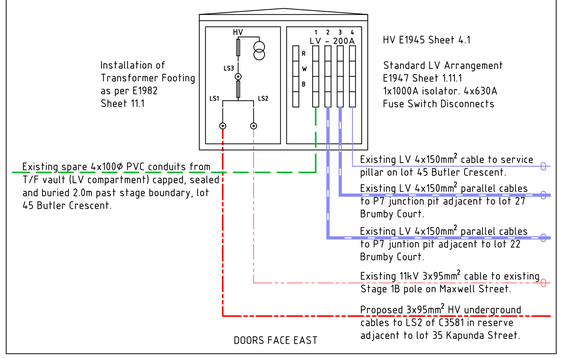
④ 3x95mm² HV underground cables to be capped, sealed and coiled on 'Pole 2'.

DOORS FACE SOUTH

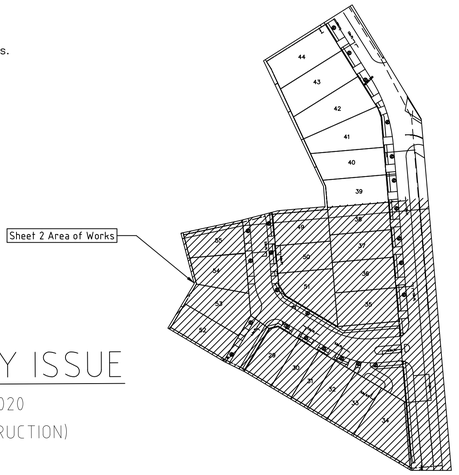
Approximate Minimum Required Trench Widths	
Trench Name	Width (mm)
A-A	325
B-B	325
C-C	450
D-D	450
E-E	450
F-F	200
G-G	325
H-H	325
I-I	325
J-J	575
K-K	200
L-L	450
M-M	575
N-N	450
O-O	325
P-P	200
Q-Q	325
AA-AA	950

EXISTING MK7 TC62148 11/0.4kV 315kVA LOOP TRANSFORMER WITH LOAD SWITCHES (LC7309A)

(NOT TO SCALE)
Located on boundary on lot 45 Brumby Court
Refer to drawings LD-500004994-01-CN and LD-500004994-02-CN for further information.
HV ARRGT: E1945 Sheet 4
LV ARRGT: E1947 Sheet 1.11



PRELIMINARY ISSUE
10 MARCH 2020
(NOT FOR CONSTRUCTION)



AREA OF WORKS
Scale 1:2000

DEVELOPMENT NUMBER: 313/D017/08

SAPN DESIGN INFORMATION:
Termite resistant cable — Yes
Earthing — MEN
Design ADMD/Lot — 6kVA

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ZONE: 54-GDA94
MAP REF: 662935-J
GRID REF: 138°54'55.5"E 34°19'43.4" S
138°54'51.9" E 34°19'49.3" S

BRA BUSHFIRE RISK AREA
FEEDER NO: NU-20
FEEDER NAME: KAPUNDA NORTH 11kV
SUBSTATION NO: SSD-213
SUBSTATION NAME: KAPUNDA NORTH
ASSET OWNER: SAPN

PROJECT DEFINITION:	NOTIFICATION TYPE	PROJECT TYPE
NC-012585	CN	RD

PRELIMINARY

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
E	PRELIMINARY ISSUE	L.C.E.	-	-	20.01.2020
D	PRELIMINARY ISSUE	L.C.E.	-	-	21.11.2019
C	PRELIMINARY ISSUE	L.C.E.	-	-	26.07.2019
B	PRELIMINARY ISSUE	L.C.E.	-	-	21.06.2019
A	PRELIMINARY ISSUE	L.C.E.	-	-	24.05.2019
F	PRELIMINARY ISSUE	L.C.E.	-	-	10.03.2020

DRAWN	M. Scanlan	24.05.2019
DESIGNED	M. Scanlan	24.05.2019
CHECKED	V. Papageorgiou	24.05.2019
PROJECT MANAGER	T. Taivo Holden Hill, SA 5088 08 8366 7426	

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Monday to Friday)

SA Power Networks
www.sapowernetworks.com.au

FIVE SCHILLINGS - STAGE 1C
UNDERGROUND RETICULATION AND PUBLIC LIGHTING
KAPUNDA STREET - KAPUNDA

SCALE		SHEET 2 OF 3	REV
1:500	A1	500020901	F