

Donald Cant Watts Corke
Level 10, Angel Place, 123 Pitt St,
Sydney, NSW, 2000

Re: Northside Private Hospital, Gosford West – Ausgrid Infrastructure Report

DEP Ref: 1651

Dear Lucy,

Please find the enclosed Ausgrid Infrastructure report for the proposed Northside Private Hospital project located in Gosford West.

If you require any further information, please contact me on the details listed below.

Yours Sincerely,

A handwritten signature in black ink, appearing to read 'Charles'.

Charles Rheinberger

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DOCUMENT INFORMATION

TITLE: NORTHSIDE PRIVATE HOSPITAL, GOSFORD WEST – AUSGRID INFRASTRUCTURE
 CLIENT: DONALD CANT WATTS CORKE
 CONTACT: LUCY GUERIN
 PREPARED BY: DEP CONSULTING
 CONTACT: CHARLES RHEINBERGER

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REVISION HISTORY:

REVISION	DATE	BY	PURPOSE OF REVISION
0	19.09.2019	C.R.	INITIAL RELEASE

1. EXISTING AUSGRID ASSETS

Ausgrid GIS plans show the following existing services located on and adjacent to the site West Gosford Private Hospital development site (Lot2 DP1226923):

Ausgrid assets located within on development site:

- 132kV overhead mains and auxiliaries. The transmission mains run through the site in a north south direction from Racecourse Rd to Ausgrid's West Gosford Zone Substation.
- 11kV underground mains. The HV mains run through the site in a north south direction from Racecourse Rd to Ausgrid's distribution substation S.11794 and West Gosford Zone Substation.
- Distribution substation S.11794. The substation provides the low voltage supply to the existing buildings within the development site (Distributor No.1) and provides a low voltage interconnect to Ausgrid's off site network.
- Low Voltage underground mains. The low voltage mains run through the site from distribution substation S.11794 to Racecourse Rd. Ausgrid plans also show multiple LV supplies from SCC Racecourse Main Switchboard No.1 to the existing buildings through the site.

Ausgrid assets located adjacent to the development site:

- West Gosford Zone Substation
- 132kV overhead mains and auxiliaries. The transmission mains run along the Faunce St West frontage (in road reserve) and along eastern property boundary (on adjacent lot)
- 11kV overhead mains. The high voltage mains run along the Faunce St West frontage (in road reserve)
- 11kV underground mains. The high voltage mains run along Faunce St West frontage (in road reserve)
- Low Voltage overhead mains. The low voltage mains run along Faunce St West frontage (in road reserve)

Refer to attached plans:

- Plan-1 _ Existing Overhead Assets
- Plan-2 _ Existing Underground Assets
- Plan-3 _ Development Overlay

2. EXISTING ELECTRICITY SUPPLY

As detailed above the site is currently serviced from Distribution substation S.11794. The substation provides the low voltage supply to the existing buildings within the development site (Distributor No.1)

3. PROPOSED ELECTRICITY SUPPLY

It is proposed to establish 2 x chamber type (within building) distribution substations on the site to supply the West Gosford Private Hospital (Stage-1 & 2)

1 x (3 x 1500kVA) transformer substation, which can provide 2 x 3000Amp LV supplies and 1 x (2 x 1500kVA) transformer substation, which can provide 1 x 3000Amp LV supply

The space allocated within the development site to accommodate the proposed substations (current allocation 275m²) is of sufficient area to accommodate the proposed substations. This would adequately accommodate 2 x (3 x 1500kVA) substations.

With the proposed substations to be located on the Faunce St West frontage, the two likely scenarios for the HV linkage point for the proposed substations would be:

1. Connect the substations at two of the existing underground 11kV feeders in Faunce St West.
2. Connect the substations directly to West Gosford Zone substation which is located adjacent to the development site.

4. CLEARANCES TO OVERHEAD MAINS TO PERMANENT STRUCTURE

Clearances to the Permanent Structure looks to maintain sufficient clearances to the existing 132kV. The Faunce St building frontage is the closest structure to the existing mains. With the building setback from the Faunce St property boundary being 3.0m up to Level-2 and 7.5m from Level 3 to Level 10.

The minimum clearance to the 132kV an adjacent building is 2.5m from those parts of any structure not normally accessible to persons. The minimum clearance to the 132kV an adjacent building is 3m from those parts of any structure normally accessible to persons (eg. Balcony, operable window, accessible roof top etc) Clearance reference from Ausgrid Network Standard 220 Clause 13.0

It is recommended a survey be carried out to identify the location of the overhead mains. Within information an overhead line design can be carried out to determine the maximum blowout of the mains (all clearance stated are for the overhead mains in the blowout position).

5. CLEARANCES TO OVERHEAD MAINS DURING CONSTRUCTION

Care should be taken during construction to ensure minimum safety clearances for overhead power lines are not encroached. Especially whilst operating cranes plant and equipment and duration the erection or dismantling of scaffolding

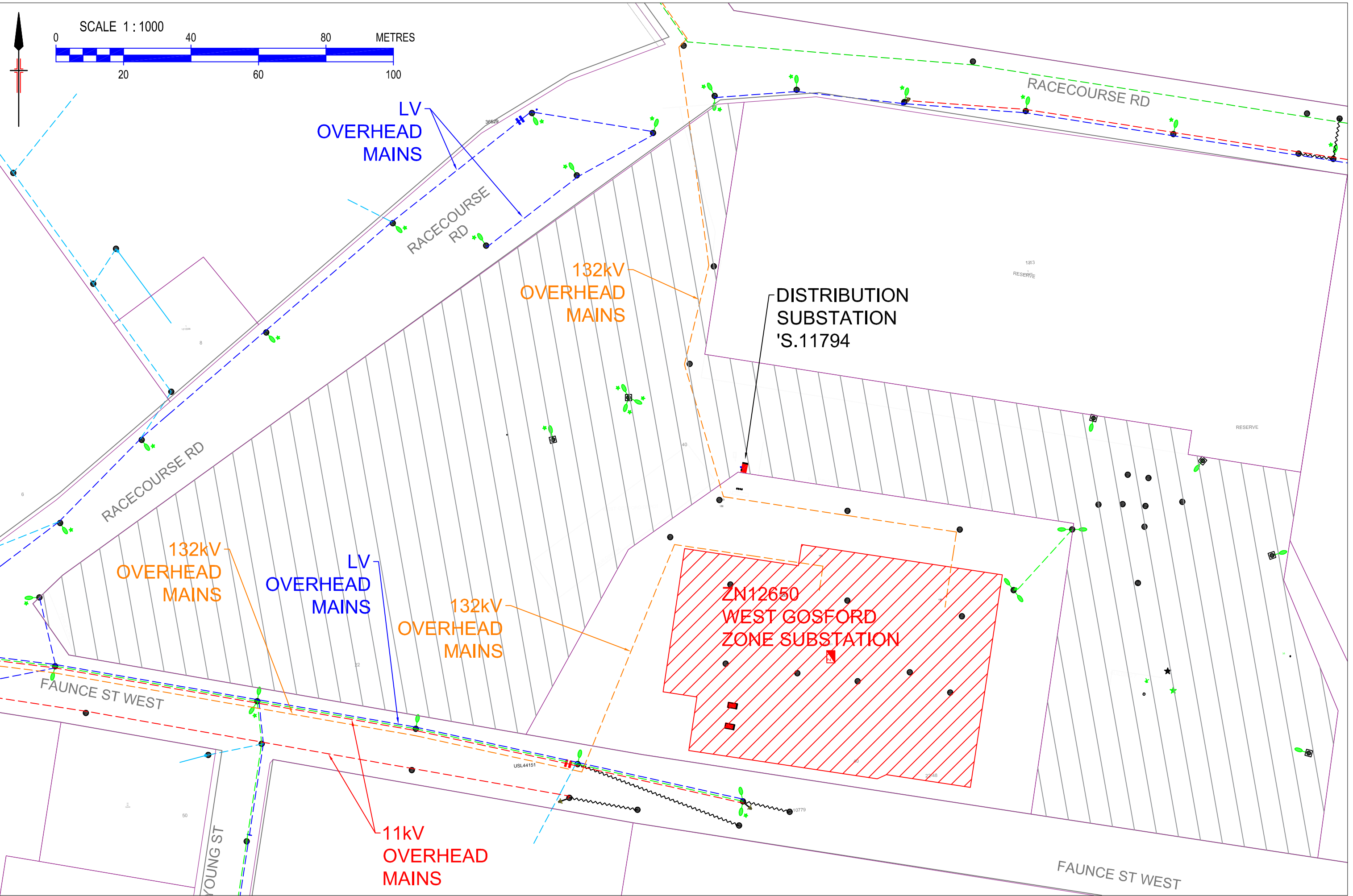
Information about safe work practices, including safety clearances from overhead powerlines, can be found Safe Work Australia.

6. ELECTRIC & MAGNETIC FIELDS (EMF)

Regarding electric and magnetic fields (EMF), the proposed medical facility building would be considered a sensitive receiver. Accordingly, it is recommended, and EMF study be carried out. Ausgrid adopt prudent avoidance regarding sensitive receivers near electricity assets to minimise the exposure to electric and magnetic fields (EMF).

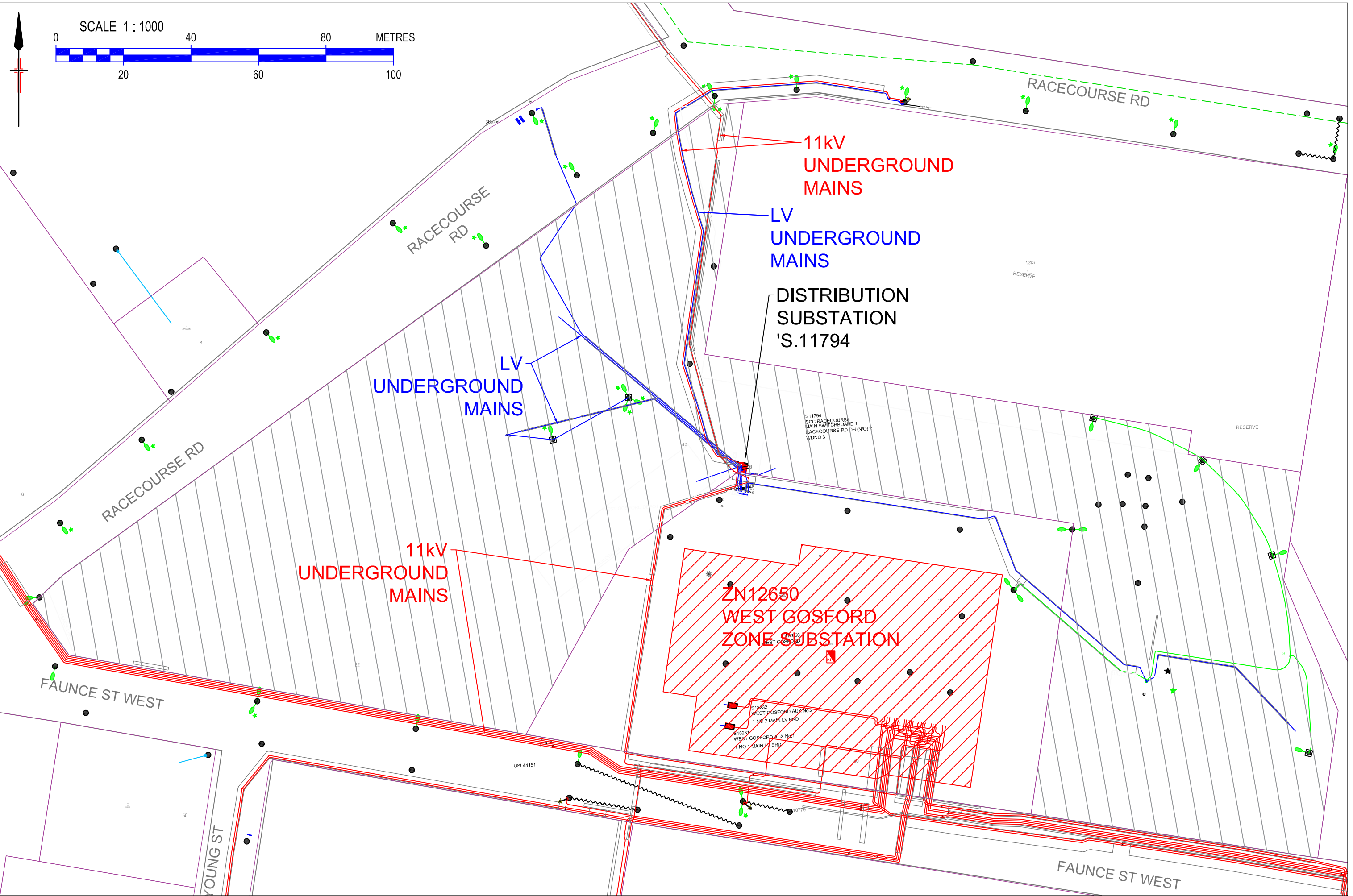
APPENDIX 01 – OVERHEAD ASSETS

PLAN -1EXISTING OVER MAINS SCALE 1:1000



APPENDIX 02 – UNDERGROUND ASSETS

PLAN-2 _ EXISTING OVER MAINS SCALE 1:1000



APPENDIX 03 – SITE OVERLAY

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