

STONEWOOD DEVELOPMENT, ERF 38791



SERVICES REPORT FOR BULK ELECTRICAL RETICULATION

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REVISION 0

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STONEWOOD DEVELOPMENT, ERF 38791: SERVICES REPORT FOR THE BULK ELECTRICITY CAPACITY

1. INTRODUCTION

- 1.1 This report covers the bulk electricity capacity for the additional residential phase on Erf 38791, Kraaifontein. The property is an established residential and industrial estate with existing medium-voltage (MV) services.
- 1.2 An After Diversity Maximum Demand (ADMD) of 3kVA per unit was allowed for the 96 additional apartment units. The total additional diversified load for this phase of the development will be 288kVA.

2. SITE LOCATION

- 2.1 The site is situated in Uitzicht, Kraaifontein. Access to the site is off Stonewood Drive.

3. EXISTING INFRASTRUCTURE

- 3.1 The development is currently served by an existing private 11kV ring main fed from a primary bulk intake substation located on Erf 20520.
- 3.2 The existing infrastructure includes nine (9) miniature substations and associated MV cabling (120mm² Al PILC) distributed throughout the estate. Miniature Substations 1 through 6 form a private ring network serving Stonewood Estate via a dedicated Ring Main Unit (RMU).

4. PROPOSED BULK ELECTRICITY

- 4.1 The City of Cape Town is the Supply Authority for the area. Calvin Davids from the City of Cape Town has confirmed that there is an available capacity of 2,208kVA on Erf 38791.
- 4.2 The development has an existing registered Notified Maximum Demand (NMD) of 500kVA.
- 4.3 Based on municipal account data, a winter peak of 469.732kVA was extracted. With the additional 288kVA required for the new phase, the projected demand exceeds the current 500kVA limit.
- 4.4 Consequently, we advise an increase of the NMD to 1,000kVA. This will ensure the development remains within municipal limits while providing a safety margin for consumption spikes and future expansion.
- 4.5 The new residential units will be fed via a new 10th distribution point integrated into the existing private 11kV ring network. All internal reticulation is designed and implemented in accordance with City of Cape Town requirements.
- 4.6 The existing 11kV ring main cabling has been verified as having sufficient thermal capacity to support the cumulative load of the existing and new phases.

5. STREET LIGHTING

All streetlighting will be in accordance with municipal guidelines and SANS-standards.

6. CABLE DUCTS

- 6.1 All road-crossings of cable will be in cable ducts.
- 6.2 The Civil Contractor will install all ducts in road-crossings.
- 6.3 All manholes and sleeves required for a complete fiber/communications network, will be installed along the roads by the electrical contractor.

Yours faithfully

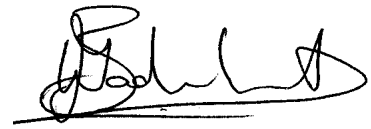


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