

Electrical Services Report (MAC Consulting
Engineers)

FROM : JP.VAN WYK

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To :	J Paul van Wyk	Date:	May 16, 2005
Attention:	Paul van Wyk	Fax No:	012-361 2126
Copy To:		Fax No:	
From:	Hilton McAvinchey	Pages:	2
Subject:	Hout Bay : ERF R2224 - Electrical Services Report	Ref No:	P035/707

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Dear Paul

The following electrical services report for your attention :

1. **Supply Authority**

The supply authority is the City of Cape Town. The electrical reticulation will be carried out according to the standards as laid down by them.

2. **Design Parameters**

City of Cape Town have indicated that the minimum single phase ADMD is to be 4.04kVA and 7.95kVA for a three phase connection.

3. **Costs**

Developer is responsible for all capital costs as well as a development contribution of R360.00 per kVA. This cost however is to be increased in the near future to R1117.20 per kVA.

4. **Point of Supply**

It is anticipated that erven 1 to 6 will be fed from the existing network off Gumtree Lane, Pine Street and Conifer Road.

Erven 7 to 27 load is estimated at between 112 to 132kVA. A miniature substation is proposed for this section of the development. The medium voltage connection is anticipated to route via Ash Lane.

Erven 29 to 72 load is estimated at between 224 to 262kVA. A miniature substation is proposed for this section of the development. The medium voltage is also anticipated to be supplied from the existing development electrical infrastructure.

5. **Sleeves**

Sleeves will be required for road crossings and will be installed as part of the civil contract.

6. **Metering**

Metering will be prepayment metering by means of split energy dispenser controllers.

7. **Service Connections**

Service connections to the properties will be by means of split concentric neutral and earth conductor with pilot cables for the metering units. Fifteen meters of cable must be provided within the boundary of the property. It is recommended that a clause be put into the sale agreement that the owner of the property must provide an Oostersee box within 15m of the property boundary. The reason is a practical one, in that they do not have a joint for this particular cable. It has also been requested that the service connections be designed for three phase.

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8. Telkom

Sleeves and access junction boxes will have to be provided according to Telkom specifications. Drawings must be issued, which they will mark up and we will issue for inclusion in the civil design.

9. Streetlighting

The roads are private and therefore there is no requirement for street lighting. Unless the development is marketed as such, street lighting will be included.