



Electrical Services Report

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BULK ELECTRICAL SERVICES AND SITE ASSESSMENT REPORT

FOR

ISLAND VIBE COLCHESTER



PREPARED BY:

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DATE

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1 SUMMARY

For the purpose of the bulk services report the proposed Island Vibe site, erf 1618 in Colchester near Port Elizabeth, an investigation was conducted by CA du Toit Eastern Cape (PTY) Ltd, to determine the availability and location of electrical bulk services near the site for the purpose of supplying the proposed development with an electrical connection.

2 FINDINGS

An existing Eskom 22-kV medium voltage overhead power line runs from a South Easterly portion of the site towards the North Western boundary of the site. This existing 22-kV line currently feeds a cluster of houses neighbouring the North Western boundary of the site and would be ideal for the provision of electrical supply to the proposed development. Existing powerline route as indicated on ANNEXURE A.



3 RECOMMENDATION

To apply for a 75-kVA; 110-A; 3-phase low voltage Eskom connection to the site at the power line structure nearest to the proposed Restaurant, approximately 40-m away from the structure.

On the last few projects we were involved with, Eskom connection applications have been a long and tedious task and would recommend an application be submitted way in advance to avoid delays during and after construction. The process from application to connection could take up to two years with an unlikely best-case scenario of six months.

We propose to have two distribution boards on the site with the main distribution board situated at the Restaurant building supplied directly from the Eskom provided terminals via an underground SWA PVC ECC cable. The sub-distribution board to be situated at the Reception and Arrival building should be fed from the main distribution board via an underground SWA PVC ECC cable running parallel to road linking the two buildings to limit environmental impact. Site electrical reticulation as indicated on ANNEXURE A.

Greener alternative power supplies could be investigated for the development such as grid tied solar panel arrays on both the Restaurant and Reception buildings.

4 ESTIMATED COSTING

Based on recent Eskom connection costs on a similar project a 75-kVA Eskom connection could amount to an estimated cost of R 130 000-00 excluding value added tax.

5 CONCLUSION

The supply of electrical connection to the proposed development could be possible keeping in mind the apathic Eskom and possible delays linked to that.

6 ANNEXURES

ANNEXURE A - CAdT SITE PLAN - X0664 E01-001