

GENERAL NOTES

LV INSTALLATION EARTH MATT.

LV INSTALLATION EARTH MATT.

DRAWING NOTES

LIGHTNING PROTECTION EARTH TERMINATION

- [illegible]

LIGHTNING PROTECTION TESTING

- (16) Impedance readings are to be carried out at the Ektose ports as indicated. The reading should be less than 100.
- (17) Should the required readings not be achieved, then a 70mm copper conductor, insulated (at least 25mm core conduct), is to connect the air termination network and 1 air copper each rods down into the ground at 3m spacing. Interconnected with 70mm BCEN unit 102 is achieved at each point.

BONDING

25mm² Cu Ties between column soffits and balustrades.
All steel spewers and roof network is to be bonded together with 25mm² PVC Insulated Cu wire.

EARTHING NOTES:

- ⑫ Interconnected copper cathodes used as telecommunication cables, 2 x 70mm² PVC/ClO₂ conductors to earth bar in Server Room.
- ⑬ 1.5m copper earthrods interconnected with 70mm² BCFW spaced at least to achieve less than 1 C/HOS.
- ⑭ 2 x 70mm² PVC/ClO₂ conductors to earth bar in Substation.
- ⑮ Earth Resistance testing to be undertaken at locations indicated.

TYPICAL EARTHING INSTALLATION DETAIL

[illegible]

IBU A
Consulting
Engineers

POWER AND DEVELOPMENT

REGENT D.
EDGECLIFF PARK
44 EDGECLIFF TERRACE
P.O. BOX 1182
WINDSOR, ONT. M9A 1B1
TEL: +27 (0)31 2607831
FAX: +27 (0)31 2621311
E-mail: info@power.co.za

Ngwelezane Hospita

Electrical Services:

Lightning Protection Layout and Details

Option 4