

1.0 **GENERAL**

1.1 **Related UBC Guidelines**

- .1 Division 26, Section 33 71 00 Electrical Utility Transmission and Distribution
- .2 Division 10, Section 1 Room Requirements
- .3 Divisions 27 and 28

1.2 **Coordination Requirements:**

- .1 UBC *Facilities Electrical* (Vancouver)
- .2 UBC Energy & Water Services (Vancouver)
- .3 UBC Information Technology
- .4 UBC Facilities Management (Okanagan)

1.3 **Description**

- .1 UBC requirements for the Design Development Documents for Division 26.

2.0 **MATERIAL AND DESIGN REQUIREMENTS**

2.1 **General Requirements**

- .1 Engaged Consultants supplies the University at the preliminary stage of the building project, a Development Brief which contains information listed below:
 - .1 Preliminary drawings clearly defining scope of work and equipment details.
 - .2 Specifications of all electrical systems and equipment.
 - .3 Power Riser Diagram.
 - .4 One Line Diagram.
 - .5 Fire Alarm Riser Diagram.
 - .6 Building area access routes for service of installed systems.
 - .7 Emergency Lighting System equipment details.

2.2 **Off Site and Site Services**

- .1 Through discussion with UBC Energy & Water Services (Vancouver) / UBC Facilities Management (Okanagan) the Design Development Brief shall include:
 - .1 Underground duct system tie-in to existing duct or manhole.
 - .2 Expected peak demand, in KVA.
 - .3 Manhole size and approximate location, drainage provision.
 - .4 Number, size and type of power cables and neutral.
 - .5 Number of ducts in each duct bank.

2.3 **Building Service**

- .1 The Design Development Brief shall include the following Building Service information:
 - .1 Size and location of main electrical and sub electrical rooms and distribution centers.
 - .2 Power switching components.
 - .3 Power transformer types and sizes.

- .4 Secondary voltages.
- .5 One line diagram including secondary distribution board, sub distribution centers, motor control centers, and risers.

2.4 Other Services

- .1 The Design Development Brief shall include the following other information:
 - .1 Fire alarm and building alarm components and supervisory equipment.
 - .2 Communication rooms size and location.
 - .3 Other services to be provided such as clocks, bells, telephone/data outlets, TV outlets, closed circuit television system, P/A system, emergency lighting and standby generator.

2.5 Construction Power

- .1 The Consultant obtains from UBC Energy & Water Services (Vancouver) / UBC Facilities Management (Okanagan), the location and voltage level for construction power.
- .2 The Design Development Brief shall include the following construction power information:
 - .1 The Consultant provides in his design, a drawing showing the basic equipment and wiring for the service.
- .3 Construction power consumption and all associated equipment and installation material and labour shall be paid for by the project.

*****END OF SECTION*****