

1.0 **GENERAL**

1.1 **Related UBC Guidelines**

- .1 Division 26

1.2 **Coordination Requirements**

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

1.3 **General**

- .1 The University has adopted a series of standards covering various electrical components such as manholes, duct systems, lighting poles, etc.
- .2 These Standard Drawings can be found in this [PDF document](#).
- .3 Wherever applicable, these standards shall be used on University work.
- .4 Any electrical civil standard not listed below shall be performed to MMCD and CEC specifications.

1.4 **Index to Standard Electrical Drawings**

AutoCAD files can be found on the Technical Guidelines website under Division 26.

<u>Drawing No.</u>	<u>Description</u>
E1-1	Single line diagram. Distribution systems 12 KV dual radial feeders typical building supply <i>(Vancouver)</i>
E1-2	Electrical unit substation one line diagram <i>(Vancouver)</i>
E1-2b	Electrical outdoor unit substation one line diagram <i>(Vancouver)</i>
E1-2c	Outdoor substation general layout <i>(Vancouver)</i>
E1-3	Electrical unit substation key interlocks <i>(Vancouver)</i>
E1-4	Typical electrical room layout <i>(Vancouver)</i>
E1-5	Jurisdictional block diagram <i>(Vancouver)</i>
E1-6	Unit substation feeder transfer control box <i>(Vancouver)</i>
E2-1	Standard concrete-encased electrical ductbank <i>(Vancouver)</i>
E2-2	Standard electrical service conduit directly buried <i>(Vancouver)</i>
E2-3	Standard electrical ductbank concrete encased <i>(Vancouver)</i>
E2-4a	Electrical ductbank clearances to DES Hot Water Lines <i>(Vancouver)</i>
E2-4b	Electrical ductbank clearances to DES Hot Water for 600 volts or less <i>(Vancouver)</i>
E2-4c	Electrical ductbank clearances to DES Hot Water for 12,000 volts or less <i>(Vancouver)</i>

<u>Drawing No.</u>	<u>Description</u>
E3-1	Standard electrical precast manhole (<i>Vancouver</i>)
E3-2	Standard electrical manholes pour in place (<i>Vancouver</i>)
E3-3	Additional reinforcing for pour in place electrical manholes (<i>Vancouver</i>)
E3-4	Standard electrical manhole cover and riser details (<i>Vancouver</i>)
E3-5	Standard electrical manhole sump detail (<i>Vancouver</i>)
E3-6	Typical manhole grounding and details (<i>Vancouver</i>)
E3-7	Typical manhole separations (<i>Vancouver</i>)
<i>E3-8</i>	<i>Standard Manhole Cable Support Detail (Vancouver)</i>
E4-1	Cable identification tags 12 KV (<i>Vancouver</i>)
E4-2	Mounting and shield grounding details for splices between 2 (or more) 15 KV 'X' - Link 500 MCM & 4/0 cables (<i>Vancouver</i>)
E4-4	Schneider Electric PM8240 meter 120/208V, 3 phase, 4 wire system. 3 element wiring connection diagram (<i>Vancouver</i>)
<i>E4-5a</i>	<i>Schneider Electric PM8240 meter 347/600V, 3 phase, 4 wire system. 3 element wiring connection diagram (Vancouver)</i>
<i>E4-5b</i>	<i>Schneider Electric PM8240 meter 600V, 3 phase, 3 wire system. 2 element wiring connection diagram (Vancouver)</i>
<i>E4-5c</i>	<i>Setra Networked Multi-circuit power meter 208V or 600V wiring connection diagram, 4-wire system (Vancouver)</i>
<i>E4-5d</i>	<i>Setra Networked Multi-circuit power meter 600V wiring connection diagram, 3-wire system (Vancouver)</i>
E4-6	<i>Water and gas meter integration into electrical metering system, tenant and core buildings (Vancouver)</i>
E4-6c	<i>District Energy System Metering ION Network Interface (Vancouver)</i>
E10-2	Interior Wiring Systems, Standard Transformer and Panel Identification
E11-1	Fire Alarm System Monitoring Equipment Installation
E12-1	Exterior Lighting and Receptacle Control

END OF SECTION