

## SUMMARY

The Electricity Regulation Bylaw sets out the rates charged for use of the City's electrical distribution system. Provision is made for a sliding scale of rates based on the amount of metered consumption and the type of consumption (commercial, industrial, residential, etc.). The bylaw also sets out regulations concerning the installation, construction, alteration, repairing and maintenance of any electrical works with the electrical service area of the City.

This bylaw is a 'consolidated' version and includes amendments up to the date listed in the bylaw heading. It is placed on the Internet for convenience only, is not the official or legal version, and should not be used in place of certified copies which can be obtained through the Office of the City Clerk at City Hall. Plans, pictures, other graphics or text in the legal version may be missing or altered in this electronic version.



*REVISED: January 14, 2013*

**CONSOLIDATED FOR CONVENIENCE TO INCLUDE  
BYLAWS NO. 8247, 8350, 8463, 8598, 8751, 8811, 8908, 8966,  
9048, 9266, 9465, 9542, 9568, 9614, 9777, 9837, 9888, 9907,  
9913, 10008, 10144, 10242, 10281, 10360, 10408, 10452, 10466,  
10517, 10518, 10658 and 10790.**

**A Bylaw for the Regulation, Control, Use and Rates for the  
Supply of Electricity and the Electrical Works and Equipment in  
the City of Kelowna Electrical Distribution System**

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The Council of the City of Kelowna, in open meeting assembled, enacts as follows:

**1.0 Title**

1.1 This bylaw may be cited as 'City of Kelowna Electricity Regulation Bylaw No. 7639'.

**2.0 Applicability**

2.1 This bylaw applies to all lands within the City Electrical Coverage Area as shown in Schedule 'A' which is attached to this bylaw.

**3.0 Interpretation**

**3.1 Severability**

If any Part, Section, Paragraph, or phrase of this bylaw is for any reason held to be invalid by a decision of any Court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this bylaw.

**3.2 Standards of Measure**

The equivalent Imperial units of measure shown in parenthesis after metric units are for information purposes only and do not form part of this bylaw.

**3.3 Headings**

The headings given to Parts, Sections and Paragraphs in this bylaw are for convenience of reference only. They do not form part of this bylaw and will not be used in the interpretation of this bylaw.

3.4 **Enactments**

Any enactments referred to herein is a reference to an enactment of British Columbia and regulations thereto, as amended, revised, consolidated or replaced from time to time, and any bylaw referred to herein is a reference to an enactment of the Council of the City of Kelowna, as amended, revised, consolidated or replaced from time to time.

3.5 **Tenses**

Words used in the present tense include other tenses and derivative forms and words used in the singular include the plural and vice versa. Words have the same meaning whether they are capitalized or not.

3.6 **Customary Meanings**

Words, phrases and terms neither defined in this section nor in any of the enactments of British Columbia shall be given their usual and customary meaning.

3.7 **Conjunctions**

Where a regulation involves two or more conditions, provisions or events connected by the conjunction "*and*" means all the connected items shall apply in combination; "*or*" indicates the connected items may apply singly or in combination; and "*either-or*" indicates the items shall apply singly but not in combination.

3.8 **Schedules**

The following schedules are attached to and form part of this bylaw:

Schedule 'A'	City Electrical Coverage Area
Schedule 'B'	Electrical Service Regulations
Schedule 'C'	Electrical Utility Billing Rates and Street Lighting, Miscellaneous and Connection Charges
Schedule 'D'	Electrical Billing and Collection Regulations

3.9 **Definitions**

In this bylaw:

'Approval' or 'Approved' when used with reference to any particular electrical equipment means such equipment or installations which are approved by the provisions of the *Electrical Safety Act*.

'Billing Cycle' means the period of time, either monthly or bi-monthly, as specified in the applicable rate schedule, over which electrical consumption is metered and billed.

'City' means the City of Kelowna and its authorized servants, representatives, agents and employees.

'City Electrical Area' means the area of the City outlined in Schedule 'A' identified as the City Electrical Coverage Area.

'Collector' means the person duly appointed by Council as the Collector for the City and includes any member of the City's Collections Department acting under the direction of the Collector.

'Consumption' means the amount of electrical energy, in kilowatt-hours, consumed by a Customer, as measured or estimated by the City over a given period of time.

'Connection Point' means the point at which the City's electrical system is physically joined to the Customer's electrical system.

'Council' means the Municipal Council of the City.

'Customer' means any person who is the Owner, or agent for the Owner, of any premises to which electricity is supplied by the City in the City Electrical Area; any person who is the occupier of any such premises; or any person who is actually a user of electricity supplied to any premises by the City in the City Electrical Area.

BL10518 added new definition:

"Customer-Generator" means an electric Service Customer of the City of Kelowna that also utilizes the output of a Net Metered System.

'Demand' means the rate of delivery of electric energy measured in kilowatts (kW), kilovolt-amperes (KVA), or horsepower (HP) over a given period of time.

'Electrical Equipment' means and includes any physical materials and implements used in, or necessarily incidental to the generation, transmission, supply, distribution or use of electrical energy for any purpose within the City Electrical Area.

BL9837 amended "Electrical Administration Manager"

'Electrical Administration Manager' means the person appointed by Council as the head of the City's Electrical Division and includes employees of the Electrical Division of the City when acting under the direction of the Electrical Administration Manager.

'Electrical Work' means the installation, addition, re-construction, renewal, alteration, repairs or maintenance of electrical equipment.

'Energy' means electric energy measured in kilowatt-hours (kWh).

'Fire Chief' means the person duly appointed by Council as the head of the City's Fire Department and includes any member of the City's Fire Department acting under the direction of the Fire Chief.

'Inspector' means an Inspector of Electrical Energy appointed by the Province of British Columbia.

'Kilovolt-amperes (KVA)' means the product of effective volts across the terminal of a circuit times the effective amperes through it, divided by 1,000.

'Meter' means any device for measuring the demand or consumption of electricity.

'Monthly, Bi-Monthly' means the frequency at which electric service is metered and billed; the former referring to a frequency of approximately once every 30 days; the latter referring to a frequency of approximately once every 60 days.

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BL10518 added new definition:

**"Net Consumption"** occurs at any point in time where the Electricity required to serve the Customer-Generator's load exceeds that being generated by the Customer Generator's Net Metered System.

BL10518 added new definition:

**"Net Excess Generation"** results when over a billing period, Net Generation exceeds Net Consumption.

BL10518 added new definition:

**"Net Generation"** occurs at any point in time where Electricity supplied by City of Kelowna to the Customer-Generator is less than that being generated by the Customer-Generator's Net Metering System.

BL10518 added new definition:

**"Net Metering"** means a metering and billing practice that allows for the flow of Electricity both to and from the Customer through a single, bi-directional meter. With Net Metering, consumers with small, privately-owned generators can efficiently offset part or all of their own electrical requirements by utilizing their own generation.

BL10518 added new definition:

**"Net Metered System"** means a facility for the production of electric energy that:

- (a) uses as its fuel, a source of clean or renewable energy restricted to water power, solar energy or geothermal energy;;
- (b) has a design capacity of not more than 50 kW;
- (c) is located on the Customer-Generator's Premises;
- (d) operates in parallel with the City of Kelowna distribution facilities; and
- (e) is intended to offset part or all of the Customer-Generator's requirements for Electricity.

**'Owner'** means the registered Owner of an estate in fee simple, and includes:

- (a) a tenant for life under a registered life estate;
- (b) a registered holder of the last registered agreement for sale;
- (c) a holder or occupier of land held in the manner mentioned in Sections 356 and 357 of the *Municipal Act*.

**'Person'** means a person as defined in the *Interpretation Act* and includes a natural person, a corporation, partnership, firm, municipal corporation, trusts, regional district, society, school board, hospital board or any other government agency.

**'Power Factor'** means the percentage determined by dividing the Customer's demand in kilowatt by the KVA demand imposed on the City's system by the Customer.

**'Premises'** means and includes a place, building, or structure on or in which any electrical equipment is located or installed.

**'Rate'** or **'Rates'** means the price or sum of money to be paid by any Customer for either the given quantity of electricity supplied to such a Customer as measured by a meter, or for a service to the premises of such Customer for a stated period of time.

'Service' means the supply of electricity from the City to any Premises, and where the context requires, the electrical equipment necessary to and actually used for the purposes of such supply.

'Service Entrance' means the point on the Customer's premises at which the connection point between the City's system and the Customer's system is located.

'Service Switch' means a switch located in the service entrance at the connection point.

'System' means the electric power generator, transmission and distribution plant, facilities and undertaking operated by the City and all goods, equipment, property and chattels associated with it.

#### 4.0 The Electrical Administration Manager

4.1 The Electrical Administration Manager is hereby authorized to have general supervision over all electrical works installed by the City, within the City Electrical Area, in accordance with the codes and standards as adopted by the Province of British Columbia in the *Electrical Safety Act*.

#### 5.0 Wiring Locations

5.1 The Electrical Administration Manager shall, upon consultation with the City's Works and Utilities Department, and having due regard for the City's subdivision servicing requirements pursuant to Section 938 of the *Municipal Act*, have the authority to designate and regulate the position of all underground wires, overhead wires on poles within the City Electrical Area; to regulate the direction in which such wires shall run for any purpose; and to regulate the points at which such wires shall enter any building.

#### 6.0 Inspection of Electrical System

6.1 The Electrical Administration Manager may inspect or cause to be inspected any electrical works in the City Electrical Area as often as he may deem necessary to do so, and shall have the right to enter upon all premises, at all reasonable times for the purpose of making such inspections, and for causing the removal or disconnection of any electrical equipment which he may consider dangerous to person or property.

6.2 Where the Electrical Administration Manager is of the opinion that any electrical work or equipment located on any premises is dangerous to person or property, he may, by written notice to the Owner of the premises or electrical equipment, order, within a time stated in the notice, that the entire installation must comply with the *Electrical Safety Act* or the doing of any work thereon must cease or be disconnected and to make the premises, electrical work or equipment safe for use as directed by him.

6.3 Any person who fails, or refuses, to comply with the *Electrical Safety Act*, or to remove or disconnect such works within the time stated in the written notice issued under Section 6.2 of this bylaw, shall be guilty of a violation of this bylaw. If the Owner fails to remove, repair or discontinue use of such works within the time stated in the notice, or if in the opinion of the Electrical Administration Manager such electrical works are of immediate danger to person or property, he may cause such works to be repaired, removed or disconnected from any source of power, provided that he gives written notice to the Owner of the Premises upon which the electrical equipment is located, within a reasonable time. The removal, repair or disconnection

of such works shall be at the expense of the **person** so in violation, and the **City** may recover the expense in the same manner as property taxes and such cost shall form a separate charge on the said property, as provided for in the *Municipal Act*.

6.4 The **Electrical Administration Manager, Fire Chief** and all **City** employees supervised by the **Electrical Administration Manager** or **Fire Chief** may enter, at all reasonable times, on any **premise** that is subject to the provisions of this bylaw, to ascertain whether the requirements of the bylaw are being met, and the regulations in the bylaw are being observed.

#### 7.0 Emergencies

7.1 Where due to emergencies, or other abnormal circumstances, the **Council** may deem it expedient to relax certain requirements of this Bylaw, such requirements may be relaxed only to the extent specifically described in a resolution of **Council**.

#### 8.0 Emergency Service Disconnection/Removals

8.1 In the event of an emergency, if in the opinion of the **Electrical Administration Manager** or the **Fire Chief** the existence or operation of any electrical works endangers life or property, then either of such officials may require the **Owner** of such works to disconnect or remove same as directed. In event of the **Owner** refusing or failing to disconnect or remove such works then either of such officials may cause the same to be disconnected or removed and the **Owner** failing to comply with the direction of either said officials shall be deemed guilty of a violation of this Bylaw. The removal, repair or disconnection of such works shall be at the expense of the **Owner** so in violation, and the **City** may recover the expense in the same manner as property taxes and such cost shall form a separate charge on the said property, as provided for in the *Municipal Act*.

#### 9.0 Electrical Service Regulations

9.1 Every **person**, installing, constructing, altering, repairing or maintaining any electrical works in the **City Electrical Area** shall do so in accordance with the Electrical Service Regulations as set out in Schedule 'B'.

#### 10.0 Electrical Utility Billing Rates

10.1 All electrical **Energy** supplied by the **City** to its appropriate **Customer** classifications shall be billed to customers in accordance with the Electrical Utility Billing Rates as set out in Schedule 'C'.

#### 11.0 Termination, Suspension or Disconnection of Service

11.1 The **City** reserves the right to suspend or terminate service at any time; to prevent fraudulent use of electricity; to protect the **City's** property; to protect its service to other **Customers**; if the **Customer** fails to comply with the terms of his service agreement or this Bylaw; or if the **City** is ordered by a competent governmental authority to suspend or terminate such service.

11.2 The **City** reserves the right to shut off the **service** to any **Customer** for any reason including, but not limited to, the following: repairs, lack of power supply, violation of any of the provisions of this Bylaw, non-payment of rates or fees or monies when due, or assignment or insolvency of **Customer**.

## 12.0 Curtailment of Service

12.1 At any time in the event of a breakdown or failure of transmitting or distributing plant, lines or equipment, or to comply with the requirements of any law, the **City** shall have the right to require any of its **Customers**, until notice of termination of the requirement is given or between specified hours, to discontinue the use of electricity for any purposes or to reduce in any specified degree or quantity his **consumption** of electricity for any purposes.

12.2 Any such requirement may be communicated by either: public notices in the newspaper, or announcements over radio or television; and may be communicated to any individual **Customer** by either: notice in writing, either mailed or delivered to the address where electric service is received, or oral communication. Any notice of the termination of any requirement under this Section may be communicated similarly.

12.3 If in the opinion of the **City** any **Customer** has failed to comply with any requirement communicated pursuant to this Section, the **City** may, after written notice to the **customer**, discontinue electrical service to such **Customer**.

12.4 The **City** shall not be liable for any loss, injury, damage or expense incurred by any **Customer** by reason of the making of any such requirement or the discontinuance of electric service to him pursuant to this Bylaw.

BL8811 deleted Section 13.0 - Non -Payment of Rates in its entirety.

## 14.0 Sufficient Voltage

14.1 Electric current will be supplied by the **City** for light and power at a phase and voltage that in the opinion of the **Electrical Administration Manager** will be suitable to fulfil the requirements of each respective **Customer**, subject to the provisions of this Bylaw.

## 15.0 Multiple Voltages

15.1 **Customers** using current at two or more different voltages, or **Customers** using current to supply a group of two or more buildings under one ownership, and being used for one industry or business, may be supplied with current through one **service** and one meter as set forth in this Section under any of the following conditions:

(a) Where the **Customer** is using current at two different voltages, the **consumption** shall be metered at the highest voltage, and the **Customer** shall be required to transform to the lower voltages through the **Customer's** own equipment; or

(b) In cases where the **Customer's** load or business is isolated from other load of a similar character, or where the load is being supplied through an individual transformer, to which no other load or **service** is attached, the **City** reserves the right to meter the **consumption** of the current from the line side of the transformer; or

(c) Groups of buildings under one ownership, and being used for one industry or business, requiring electric current through one **service**, must be located on



adjoining lots, or directly across a street or lane from the building to which service is attached. Connections may be made by the Customer to the adjoining buildings if installed underground when crossing a street or lane, and any damage caused to said street or lane thereby shall be repaired at the sole expense of such Customer.

## 16.0 Resale of Electricity

16.1 No Customer shall sell any Energy supplied by the City, to any other person, without the prior and express written consent of the City subject to any conditions which the City requires the Customer to accept. The conditions will include the provision that the price charged for the electricity sold by the Customer to any other person will not exceed the price which would be charged by the City for electricity sold to such a person as a Customer of the City.

16.2 Sub-section 16.1 of this bylaw does not apply to prevent a Customer from supplying electricity to tenants of the Customer on his premises if the cost of such electricity is not separately billed or paid.

## 17.0 Billing and Collection Regulations

17.1 Billing and collection procedures shall be generally carried out by the City in accordance with the Billing and Collection Regulations as set out in Schedule 'D'.

## 18.0 Taxes

BL10360 replaced sub-section 18.1:

18.1 rates and charges set out in this bylaw do not include any tax which the City may be lawfully authorized or required to add to its normal rates and charges.

## 19.0 Point of Delivery

19.1 Unless otherwise specifically agreed, the point of delivery is the Connection Point. The City's liability ceases at the point of delivery and, except for equipment owned and maintained by the City, the Customer assumes all other liability beyond the point of delivery.

19.2 The point of delivery for underground service from the City's system is the point where the underground circuit to the premises enters the land owned or occupied by the Customer unless otherwise specified in the application for service or unless otherwise specifically agreed to in writing by the City.

19.3 The City, at its option, may furnish service through one point of delivery to two or more adjacent Premises having one Owner and used for a single business function.

## 20.0 Responsibility of City for Maintenance of Service

20.1 The City will operate its system as efficiently as reasonably possible, but does not guarantee the constancy of its voltage or frequency nor continuous, uninterrupted service. A defect or interruption in the supply of electricity shall not constitute a breach of any legal duty of the City.

20.2 The City shall not be responsible for any loss, injury, death or damage due to interruption, failure or defect in service arising from any cause or causes whatsoever. The City will endeavour to restore interrupted service or to rectify defective service with reasonable diligence.

## 21.0 Customer Responsibility

### 21.1 Access

- (a) The Customer shall grant to the City such right-of-way over or under the Customer's property as may be necessary for the installation, maintenance, repair, inspection or removal of electrical works for service to the Customer.
- (b) The Customer shall grant to the City full access to its electrical equipment at all reasonable times for meter reading and testing, removal, installation, maintenance, or repair of electrical equipment. If such meters or equipment are located such that locks must be operated to gain access to it, the City will require that it be supplied with all necessary keys. Should the City deem it appropriate, lock boxes may be required to provide access to meters. The City will accept keys only in those cases where the City considers it is convenient and necessary to have its meters or equipment situated in a common area. The City is not obligated to accept custody of, nor responsibility for, keys and retains its sole discretion to require that its meters or equipment be located or relocated in areas the City considers appropriate and where locks need not be operated to gain access.
- (c) Any agreement by the City to accept custody of keys will be, and will be deemed to be, at the request of and for the convenience of the Customer. The City is not responsible for any loss, claim, injury, death or damage whatsoever resulting or arising from the loss, theft, or use of any key or in any way, or by the operation or failure to operate any lock operable by any key provided to it by a Customer.
- (d) The Customer is required to provide adequate space for the installation and removal of measuring instruments at the meter.
- (e) The Customer is required to provide and maintain a cleared right-of-way, where necessary, through the Customer's Premises to the connection point. The right-of-way shall provide a minimum three metres of clearance on either side of the power line.
- (f) The City has the right, without notice to the Customer, to enter upon any premise to which service is supplied for the purpose of inspecting such Premises and to use such force as may be reasonable to effect such entry, if it has a reasonable belief that the Customer is violating any of the terms hereof.
- (g) A safe working space in front of the main service entrance of a minimum of one metre (39 inches) shall be maintained, including a clear headroom of not less than 2.2 metres (7 ft.) for the full width of the installation. No water, gas, sewer or other pipes shall be permitted to encroach on the safe working space and the floor area of the safe working space shall be kept clear at all times.

**21.2 Damage to City Property**

- (a) The Customer will be liable for damage to City equipment or other loss to the City arising from:
- (i) unauthorized alterations or additions which result in a Customer load above that approved by the City;
  - (ii) connections ahead of the City's meter;
  - (iii) malfunction of Customer's service protective equipment;
  - (iv) trees or other objects on private property falling onto City lines;
  - (v) Customer negligence;
  - (vi) non-compliance with these terms or conditions; or
  - (vii) failure or refusal of the Customer to exercise reasonable care and diligence in protecting City equipment situated within the Customer's Premises from damage or defacement.

**22.0 Liability**

- 22.1 Nothing contained in this Bylaw shall be deemed or construed to relieve any person owning, operating, constructing or installing any electrical works from any liability for damages to any person injured by the construction or operation of same, nor shall the City be deemed to have assumed any liability by reason of the inspection herein before authorized.
- 22.2 In case the supply of electricity shall fail, whether from natural causes or accident in any way, or causes outside the reasonable control of the City (in which causes labour disputes may be included), the City shall not be liable for damage by reason of such failure, whether the same arises from the negligence of any person in the employ of the City, or from any other cause whatsoever, nor shall the City be liable in any event for damage to person or property arising, accruing or resulting from the use of electricity from the City works.

**23.0 Offences and Penalties**

- 23.1 No person may prevent or obstruct, or attempt to prevent or obstruct, the entry of authorized official upon any property as authorized by this bylaw.
- 23.2 Every person who violates a provision of this bylaw commits an offence and is liable on summary conviction to a penalty not exceeding ten thousand dollars (\$10,000.00) and costs of prosecution. The penalties imposed under this sub-section supplement and are not a substitute for any other remedy to an infraction of this bylaw.

**24.0 Repeal**

- 24.1 City of Kelowna Electricity Regulation Bylaw, 1976, No. 4116, together with all amendments, are hereby repealed.

Read a first, second and third time this 15<sup>th</sup> day of December, 1997.

Adopted by the Municipal Council of the City of Kelowna this 5<sup>th</sup> day of January, 1998.

\_\_\_\_\_  
"Walter Gray"

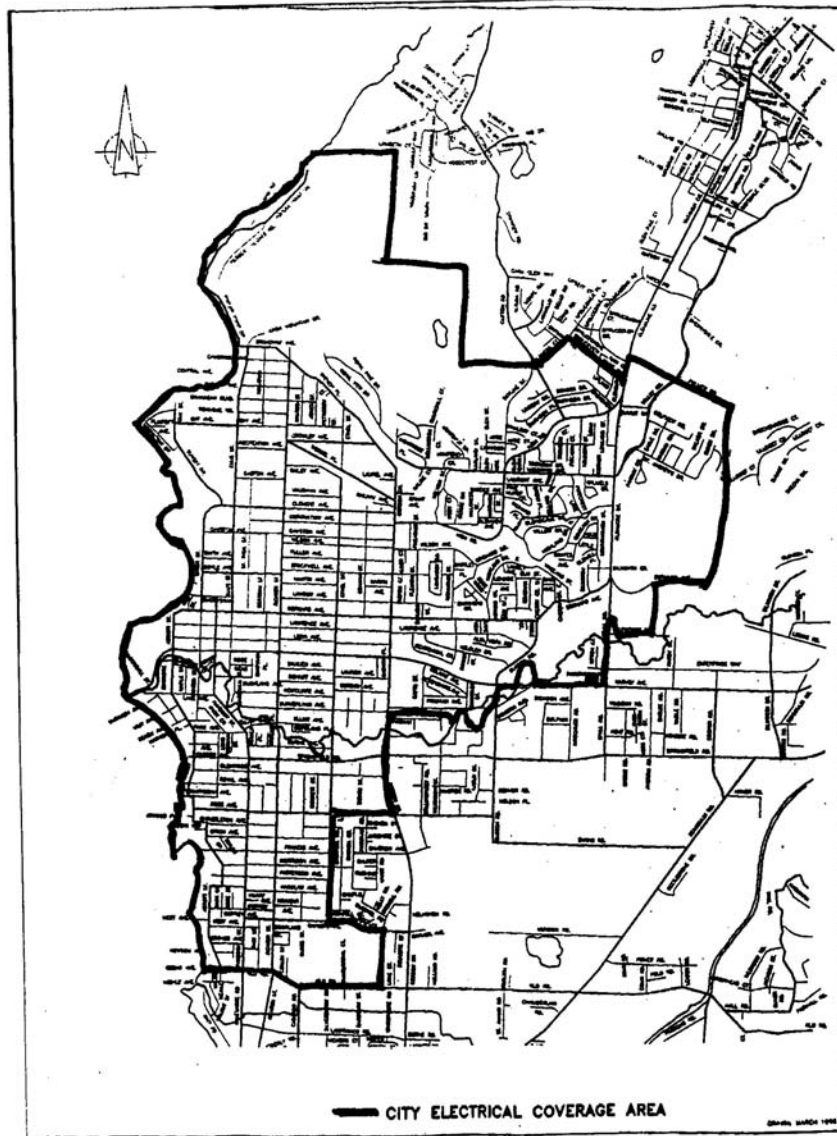
Mayor

\_\_\_\_\_  
"D.L. Shipclark"

City Clerk

SCHEDULE 'A'  
OF  
BYLAW NO. 7639

CITY OF KELOWNA  
CITY ELECTRICAL AREA



SCHEDULE 'B'  
OF  
BYLAW NO. 7639

CITY OF KELOWNA  
ELECTRICAL SERVICE REGULATIONS

SCHEDULE B  
ELECTRICAL SERVICE REGULATIONS

BL8966 replaced SECTION I - GENERAL:  
SECTION I - GENERAL

B-1. APPLICATION FOR SERVICE

Electrical service shall be supplied under the provisions of the *Local Government Act*.

B-2. SERVICE LOCATION

The Electrical Contractor shall check with the City regarding building service and electrical meter location(s).

BL9837 and BL10008 replaced sub-section B-3:

B-3. MINIMUM SERVICE CAPACITY OF RESIDENTIAL

All temporary and new permanent single phase residential services shall be 240 volts, 3 wire and in all new dwelling units the service shall meet the minimum requirements of the *Electrical Safety Act*. When major alterations are made to a single dwelling unit and/or to the electrical wiring, any deficiencies in the service should be upgraded to ensure adequate service capacity. Only one service shall be allowed per legal property. Any legal property with more than one 200 amp service with a single meter and/or more than one separate single family dwelling/livable unit is deemed to be multi unit. The service must be installed underground in a minimum size conduit of 7.62 mm (3 inches) if premise is located in an urban or village centre as outlined in the Kelowna Official Community Plan (1994-2013) Bylaw No. 7600 and the City of Kelowna Subdivision, Development and Servicing Bylaw No. 7900.

B-4. MULTI-FAMILY DWELLINGS AND APARTMENT BUILDINGS

Service requirements shall conform with the requirements covered in Section V of this schedule. All buildings containing more than two dwelling units must have a separate electrical room.

B-5. COMMERCIAL SERVICES

The City requires that all commercial services be underground in a conduit no less than 7.62 mm (3 inches) in diameter if premise is located in an urban or village centre as outlined in the Kelowna Official Community Plan (1994-2013) Bylaw No. 7600 and the City of Kelowna Subdivision, Development and Servicing Bylaw No. 7900.. All commercial buildings shall have a separate electrical room. Where building design permits, outside access would be preferred.

B-6. INDUSTRIAL SERVICES

The City requires that all industrial services be underground in a conduit not less than 7.62 mm (3 inches) in diameter if premise is located in an urban or village centre as outlined in the Kelowna Official Community Plan (1994-2013) Bylaw No. 7600 and the City of Kelowna Subdivision, Development and Servicing Bylaw No. 7900. All industrial buildings must have a separate electrical room. Where building design permits, outside access would be preferred.

BL9837 amended title to SECTION II:

**SECTION II EXISTING AND/OR NEW OVERHEAD SERVICES**

B-7. SERVICE POINT OF ATTACHMENT

The service point of attachment shall be deemed to be the building point closest to the City's distribution point, or as directed by the **Electrical Administration Manager**, and shall include the building or the first Customer owned pole where required.

B-8. SERVICE HEIGHT

The service point of attachment located on a building shall not be less than 4.75 m (15 ft.) or more than 9.14 m (30 ft.) above the finished grade at the service entrance of the building.

B-9. CLEARANCE

Service wires crossing any roof require written approval of the Provincial Inspector prior to proceeding with the work and shall conform to any regulations established by the Provincial Inspector regarding clearances.

B-10. TEMPORARY SERVICE

An application for temporary electrical service shall be signed and a deposit shall be paid to the City prior to connection of the service. The entire cost for the installation of the temporary service shall be born by the applicant.

**SECTION III UNDERGROUND SERVICES**

B-11. RESIDENTIAL SERVICES

B-11.1 Extension to the existing electrical distribution system in residential areas shall be installed underground unless specific approval is granted by the **Electrical Administration Manager** for an overhead service or unless otherwise provided for in the City of Kelowna Subdivision Bylaw No. 6050-86 as amended or replaced.

BL9837 and BL9907 amended sub-section B-11.2:

B-11.2 The Customer shall be responsible for 100% of all trenching, conduit from customers point of service to the City of Kelowna point of attachment for all underground service. A minimum 7.62m., (3in) PVC of DB2 conduit with bell ends and long sweep bend shall be required.

BL9837 amended section B-12:

B-12. MULTI UNIT, GENERAL SERVICE COMMERCIAL AND INDUSTRIAL

B-12.1 All multi unit, commercial and industrial services shall be installed underground unless specific approval is granted by the **Electrical Administration Manager** for an overhead service or unless otherwise provided for in the City of Kelowna Subdivision Bylaw No. 6050-86.

B-12.2 The **Customer** shall be responsible and bear all costs for the construction and installation of the entire underground primary and secondary services including trenching, boring, road restoration, cable, conduit, pole rise in PVC pipe with weather-head. A minimum of 7.62 mm (3 inches) PVC or DB2 conduit with bell ends and long sweep bends shall be used.

**SECTION IV SERVICE ENTRANCE EQUIPMENT**

B-13. GROUNDING

All water meters shall be permanently jumpered over in order to provide adequate grounding while the water meter is being removed or replaced. Ground clamps utilized during the process shall not be connected on the water meter nipples.

B-14. IDENTIFICATION OF MULTIPLE SERVICES

All metering equipment shall be clearly, legibly and permanently identified consistent with the dwelling unit identification scheme, by the electrical contractor prior to the connection of the electrical meters.

B-15. SEALING OF SWITCHES

Any accessible unmetered current from **electrical equipment** shall be sealed by the **City**. Any broken meter seals must be immediately reported to the Electrical Division.

**SECTION V METERING**

B-16. OUTDOOR LOCATION

Any new, rebuilt, altered or relocated residential **service** of 200 amperes or less shall have a jumbo meter socket/base rated at a minimum of 125 - 200 amperes (must have a 3' knockout) located outside the **Premises** no more than 1 m (3.28 ft.) from the corner of the building closest to the **service** point of attachment. The meter mounting device shall carry a CSA approval label and be of a type **approved** by the **City**. Installation shall be in accordance with the Service Requirements of the *B.C. Building Code* and the Provincial **Inspector**. If an existing outside meter is located within a carport or garage and is inaccessible to the **City**, the **Customer** shall re-locate the **service**, at his own expense within 60 days of written notice from the **City**.

B-17. INDOOR LOCATIONS FOR ALL 3-PHASE AND SINGLE PHASE SERVICES

All electrical meters and metering equipment shall be installed in locations that are satisfactory to the **City** and Provincial **Inspector**. The location shall be as close to the **service** entrance as possible and not located in an area where the equipment would be exposed to dangerous or hazardous conditions.

B-18. SOCKET BASE LOCATIONS, COMMERCIAL AND INDUSTRIAL

Where a meter socket is required as outlined in these regulations, the electrical contractor shall obtain approval of the location from the **City** prior to commencement of the work. If the location is inside a building, the **City** shall be provided with any keys necessary for easy access.

B-19. RESIDENTIAL AND GENERAL SERVICES IN SAME BUILDING

The **City** may require the installation of individual meters for existing buildings where both residential and general services are located. If individual meters are not installed the **City** reserves the right to bill the entire electrical **consumption** at the General Service Rate - Class A prescribed in Schedule 'C' of this Bylaw.

B-20. MULTI-FAMILY DWELLINGS AND APARTMENT BUILDINGS

If each dwelling unit in a building can be stratified the **City** may require each dwelling unit to have its own electrical meter. The **Customer** shall be required to pay any additional costs for 120/208 network meters.

B-21. ELECTRICAL ROOM

B-21.1 All **service** Boxes and other **approved** service equipment shall be installed in a location **approved** by both the **City** and the Provincial **Inspector** and shall be:

- .1 placed within the building, except by special permission from the **City** and Provincial **Inspector**
- .2 placed as close as practical to the point where the **service** conductors enter the building
- .3 readily accessible, and
- .4 located away from any dangers or hazards

B-21.2 A **service** box or other **approved** service equipment that is located outside of a building must

- .1 have the prior approval of the **City** and Provincial **Inspector**
- .2 be protected from the weather and weatherproofed, and
- .3 be protected from mechanical injury if located less than 1.8m (6 ft.) above the ground



B-22. METER LOOPS

All wires carried to the City's meters, instruments, or transformers must be made of copper.

B-23. EQUIPMENT SUPPLIED BY THE CITY

The City will supply the following equipment:

- .1 potential and current transformers
- .2 colour coded secondary wires
- .3 test link panels, and
- .4 one electric meter per service application (in the case of 120/208 network meters, the Customer will be required to pay the cost difference, between the price of a network meter and a regular residential 120/240 meter.)

B-24. METERING CABINETS

B-24.1 All metering cabinets shall be constructed of a minimum 16 gauge sheet metal with minimum dimensions of 760 mm (30 inches) x 760 mm (30 inches) x 250 mm (10 inches) and all shall be equipped with a removable interior CSA approved mounting panel.

B-24.2 All metering cabinets shall be equipped with hinged doors and all doors shall be equipped with a latch and handle appropriate for securing the doors with a padlock and utility seal.

B-25. WIRES IN METER CABINETS

All copper line and load wires shall be of sufficient length as to permit the positioning of the transformers at the top of the back panel of a metering cabinet.

B-26. INSTALLATION OF INSTRUMENT TRANSFORMERS

All instrument transformers used in connection with metering shall be installed on the load side of the service's main switch or breaker and located in such a manner as to make it inaccessible to unauthorized persons. The transformers must be installed so that they may be readily removed and all load connections to the current transformers shall be made by the Electrical Division. The transformers shall be positioned to provide ready observation of the name plate data, polarity, and connections.

B-27. SWITCHGEAR INSTALLATIONS

When manufactured switchgear is used, current transformers may be mounted on the load side of the main breaker switch in an accessible compartment.

B-28. SWITCHGEAR DRAWINGS

The electrical contractor shall submit dimensioned drawings of any proposed switchgear showing provisions for the arrangement of the metering equipment to the Electrical Administration Manager for approval.

B-29. MOUNTING HEIGHTS OF METERS AND CABINETS

All meters and mounted cabinets shall have a mid-point height of 1.52 m (5 ft.) above the finished floor or final grade.

B-30. DETAILS OF METER SOCKETS AND/OR CABINETS

.1 120/240 Volts, 3 Wire Single Phase Supply

- Up to 200 amperes - 4 jaw base;
- Over 200 amperes - Commercial/Industrial - 760 mm (30 in.) x 760 mm (30 in.) x 250 mm (10 in.) meter cabinet;
- over 200 amperes - Residential - contact Electrical Division.

.2 120/208 Volts, Network Supply (2 phase and a neutral of a 3 phase, 4 wire supply)

- Up to 200 amperes - 5 jaw base (Neutral jaw at 9 o'clock position).

.3 120/208 Volt, 3 Phase, 4 Wire Supply

- Up to 200 amperes - 7 jaw base;
- Up to 600 amperes - 760 mm (30 in.) x 760 mm (30 in.) x 250 mm (10 in.) meter cabinet;
- Over 600 amperes - metal clad Switchgear.

.4 600/347 Volt - consult with **Electrical Administration Manager**.

B-31. SWITCHGEAR

At no time shall the revenue electrical meters be mounted so that the secondary wiring to the instrument transformers be greater than 22.86 m (75 ft.).

B-32. CUT-OFF

The City shall be notified twenty-four (24) hours in advance for service cut-off. When interruptions in service are required outside of the normal working hours of the City, the Customer shall be assessed for all costs required to complete the work.

B-33. METERS AND MATERIALS THAT ARE CITY PROPERTY

Meters and materials provided by the City are and shall remain the property of the City, and the City shall maintain, repair or replace the same. If such City property shall be wilfully, negligently or carelessly damaged or destroyed, the Customer in or on whose Premises the same has been placed shall pay to the City the value of the property so damaged or destroyed, or the cost of repairing the same. Meters installed on Premises shall be readily accessible at all times and must not be enclosed in such a manner that makes removal difficult, and further, residential meters shall not be installed in carports, porches, verandas, breezeways or similar areas. Time spent by an employee of the City to remove a meter that has been wrongfully installed or located shall be charged to the Owner of such Premises.

**SECTION VI LOAD BALANCING**

**B-34. GENERAL**

All polyphase services, whether serviced by the City or Customer owned, shall be load balanced in order that the system load balance be maintained.

**SECTION VII MOTORS**

**B-35. NAME PLATE DATA**

The name plate for all electric motors, including unitary equipment, such as air conditioners, shall be clearly marked and indicate the starting current, the running current and the power factor. The data shall be readily accessible for inspection purposes.

**B-36. 3 PHASE MOTORS**

The **Electrical Administration Manager** shall be contacted regarding the starting equipment for all 3 phase motors.

**B-37. MOTORS OVER 5 HP**

All motors over 5 HP shall be 3 phase and operate at a voltage as **approved** by the City.

**B-38. RUNNING POWER FACTOR OF ELECTRICAL MOTORS**

The running power factor of electrical motors shall be not less than:

- .1 75% for motors rated at 1/3 HP;
- .2 80% for motors rate at 1/2 HP; or
- .3 85% for motors rated at 3/4 HP.

**B-39. AIR CONDITIONING**

All equipment for cooling of air, shall, while in operation, be equipped and used with an efficient evaporative condenser or other water cooling device which will reduce the **consumption** of water.

**SECTION VIII TRANSFORMER INSTALLATION**

BL10144 amended sub-paragraph B-40:

**B-40.** Where required the City shall supply the transformation capacity up to and including 500 KVA to service one Customer. That Customer shall pay **installation** cost and the difference between a pole mount and pad mount transformer and installation cost.

BL9837 amended sub-paragraph B-40:

- B-41. Transformer capacity over 500 KVA shall be approved by the **Electrical Administration Manager**, purchased by the **Customer** and installed by an Electrical Contractor. The **City** will contribute a maximum of 75% only of the cost of a 500 KVA transformer, additional cost for transformers greater than 500 KVA is to be paid by the **Customer**.
- B-42. The normal secondary voltage supplied by the **City** at 3 phase shall be 120/208v or 347/600v. Other secondary 3 phase voltage shall be at the **City's** discretion and the **Customer** may be required to purchase the transformer.
- B-43. The **Customer** shall pay for all materials and labour from the **City** pole, into the property including the pole riser, conduits, cable, transformer lugs, concrete pad, concrete encased conduits, and barricade protection (if required), grounding of the transformer and all termination points for the primary and secondary connection. The entire underground service and transformer installation shall be according to the **City's** Specifications and Regulations.
- B-44. All dry transformers shall be **Customer** owned.
- B-45. The **City** shall set all transformers up to 500 KVA and terminated the primary cable at the pole and transformer locations.
- B-46. The **Customer** shall supply the **City** with information regarding the capacity required so that the proper transformer may be installed. The **City** may determine the type and size of transformer required.
- B-47. If the load on the transformer is less than 75% of the total capacity of the transformer, 12 months after installation, the **City** reserves the right to bill the **Customer** for the excess transformer losses incurred during the previous 12 months.

#### SECTION IX INSPECTION OF INDUSTRIAL CUSTOMER OWNED SUBSTATIONS

- B-48. The following procedures shall be followed for the inspection of **Customer** owned substations:
- The **Customer** shall give written notice of an interruption of supply two weeks prior to the date of interruption. If required, a purchase order number shall be obtained from the **Customer/contractor**.
  - If more than regular maintenance is being undertaken by the **Customer** a permit from the Provincial **Inspector** shall be obtained by the **Customer/contractor** prior to commencing the work.
  - Permission to open and re-close the station must be given by the **Electrical Administration Manager**.

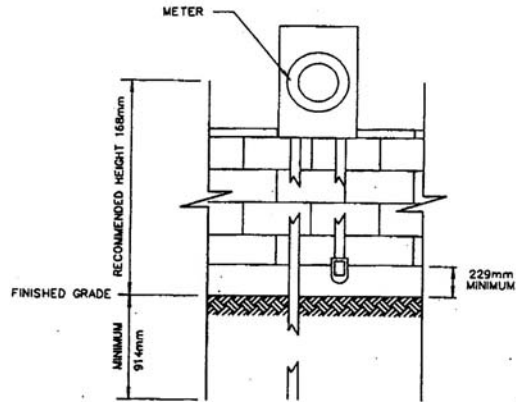
**SECTION X ELECTRICAL SERVICE TO FIRE DAMAGED PROPERTIES**

- B-49. When the City Electrical Division has been called in by the City Fire Department to disconnect the electrical supply, it shall be disconnected at the street.
- B-50. All other electrical service equipment at the scene of the fire shall remain in place until the City Fire Department and the Provincial Fire Commissioner has completed any necessary investigation. Where electrical equipment is suspected of being the cause, the Provincial Inspector shall be notified as well.
- B-51. Where the equipment must be removed for reasons of safety or for the convenience of other Customers, such equipment shall be made available for examination until the fire investigation has been completed.
- B-52. In the case of doubt as to whether a fire investigation has been concluded, inquiries shall be made directly to the Fire Chief.
- B-53. Service restoration to the fire damaged properties shall not be done until approval has been received from the Provincial Inspector.

**SECTION XI OWNER CHARGES FOR MOVING ELECTRICAL PLANT**

- B-54. Upon request of an Owner to relocate a portion of the electrical plant, the City will endeavour to move the plant in question. If the relocation is feasible, the Owner shall pay 100% of the actual labour and equipment cost, including normal burden and overheads.
- B-55. The City shall advise the Owner in writing of the estimated cost and terms for the plant relocation. The Owner shall agree to the terms and authorize the City to proceed by paying a deposit on the estimated cost and by signing a work order with the City.
- B-56. The Owner will be billed after completion of project. If not paid by December 31 of that year, arrears will be added to the property taxes as provided for in the *Municipal Act*.
- B-57. There shall be no charge to an Owner for materials that can be reused and put back in stores, however the Owner shall be billed for topsoil, sod, asphalt and concrete in connection with the moving of the City's electrical plant.

DRAWING - OUTDOOR METERING



 EARTH FILL  
 BRICK

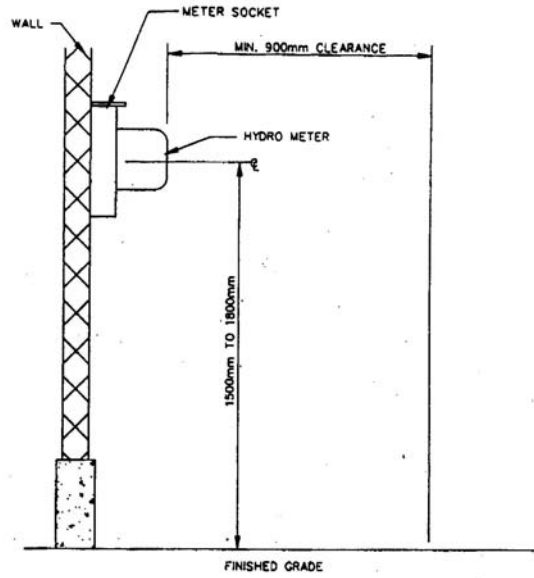
W:\DRAWING\STD-0003\ELECTRICAL\EBL-13

NOTES:

1. THE CONTRACTOR IS TO CONNECT BOTH LINE CONDUCTS TO THE UPPER TERMINALS OF THE METER BASE.
2. MINIMUM CONDUCT SIZE FOR UNDERGROUND SERVICE WILL BE 3"
3. TO ELIMINATE THE POSSIBILITY OF DAMAGE TO DUCT OR CABLE IT IS REQUIRED THAT THE CONTRACTORS BACKFILL WITH EITHER SAND OR FINE TOP SOIL.

DRAWN BY: S.T.	DATE CREATED: JUNE 9/97	<b>CITY OF KELOWNA</b> WORKS & UTILITIES DEPARTMENT	DIVISION ELECTRICAL	
DESIGN BY:	DATE LAST REVISED:		<b>OUTDOOR METERING</b> <b>APPENDIX</b> <b>(A)</b>	DWG. NO. <b>EBL-13</b>
APPROVED BY:	SCALE: NOT TO SCALE			REV. NO.

DRAWING – METER SOCKET MOUNTING, SINGLE FAMILY RESIDENCE



NOTES:

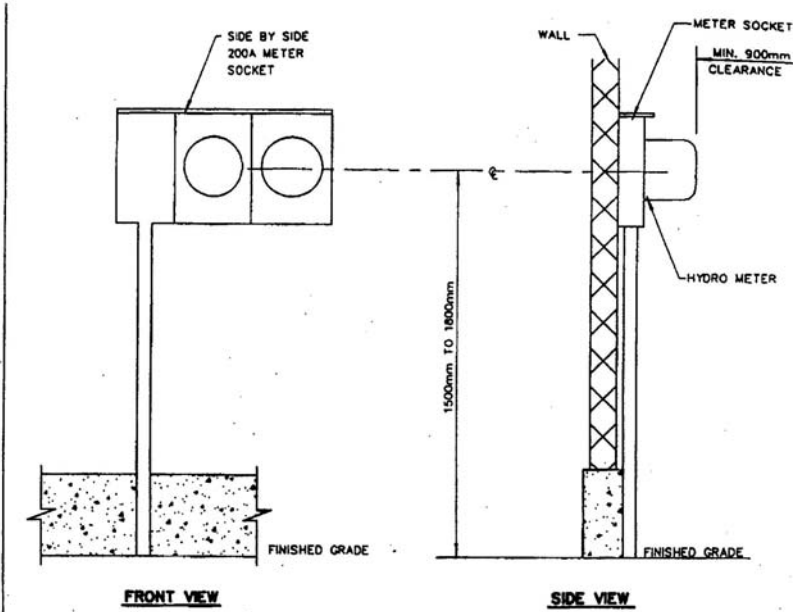
1. METER SOCKET SHALL BE LOCATED ON THE LINES SIDE OF SWITCH OR BREAKER



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DRAWN BY: S.T.	DATE CREATED: JUNE 9/97	<b>CITY OF KELOWNA</b> WORKS & UTILITIES DEPARTMENT	DIVISION ELECTRICAL	
DESIGN BY:	DATE LAST REVISED:		<b>METER SOCKET MOUNTING, SINGLE FAMILY RESIDENCE</b>	DWG. NO. EBL-14
APPROVED BY:	SCALE: NOT TO SCALE			REV. NO.

DRAWING – DUPLEX METERING FROM UNDERGROUND SERVICE



NOTES:

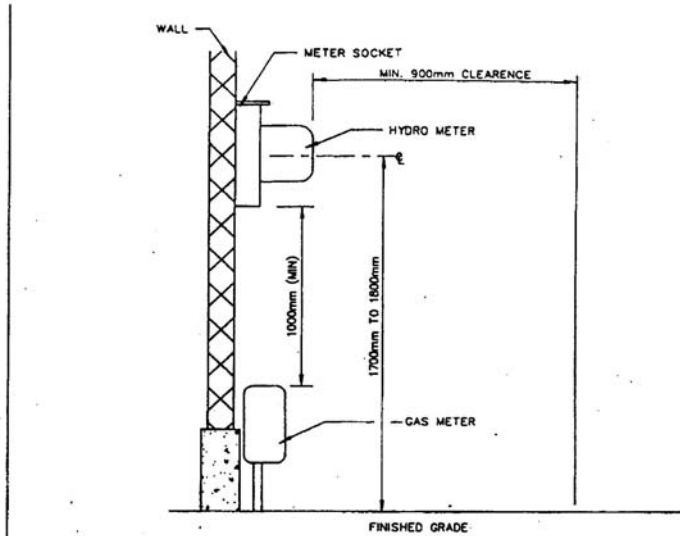
1. SIDE BY SIDE 200A METER SOCKET MUST BE USED FOR UNDERGROUND SERVICES
2. METER SOCKET SHALL BE LOCATED ON THE LINE SIDE OF SWITCH OR BREAKER



DRAWN BY: S.T.	DATE CREATED: JUNE 10/97	<b>CITY OF KELOWNA</b> WORKS & UTILITIES DEPARTMENT	DIVISION ELECTRICAL	
DESIGN BY:	DATE LAST REVISED:		DWG. NO. EBL-15	REV. NO.
APPROVED BY:	SCALE: NOT TO SCALE	<b>DUPLEX METERING FROM UNDERGROUND SERVICE</b>		



DRAWING - METER SOCKET MOUNTED ABOVE GAS METER -  
SINGLE FAMILY RESIDENCE



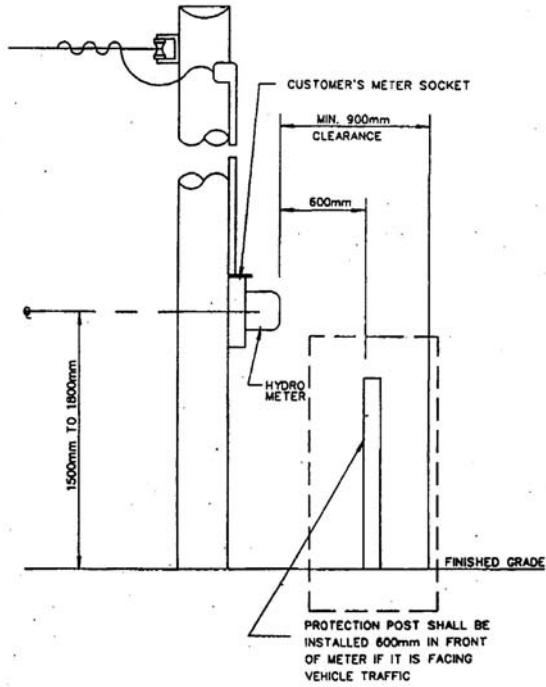
NOTES:

- METER SOCKET SHALL BE LOCATED ON THE LINES SIDE OF SWITCH OR BREAKER

-  WALL
-  CONCRETE

DRAWN BY: S.T.	DATE CREATED: JUNE 10/97	<b>CITY OF KELOWNA</b> WORKS & UTILITIES DEPARTMENT	DIVISION ELECTRICAL	
DESIGN BY:	DATE LAST REVISED:		DWG. NO. EBL-16	REV. NO.
APPROVED BY:	SCALE: NOT TO SCALE	<b>METER SOCKET MOUNTING ABOVE GAS METER, SINGLE FAMILY RESIDENCE</b>		

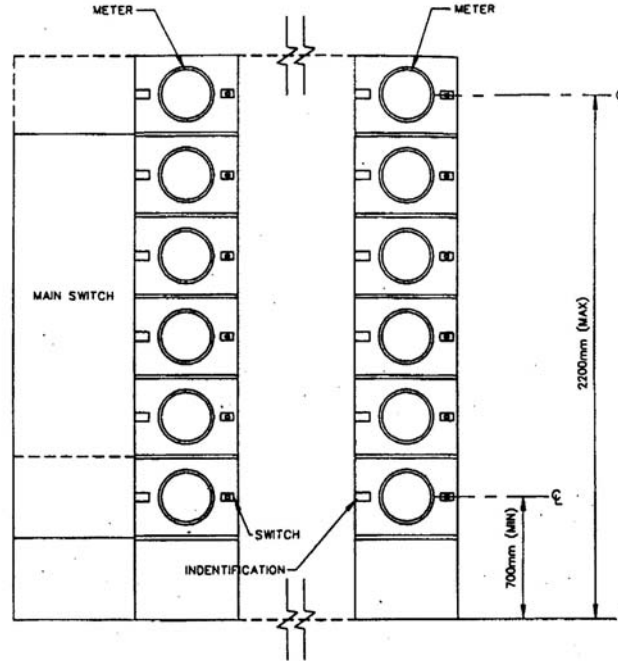
DRAWING - METER MOUNTED ON POLE



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DRAWN BY: S.T.	DATE CREATED: JUNE 10/97	<b>CITY OF KELOWNA</b> WORKS & UTILITIES DEPARTMENT	DIVISION ELECTRICAL	
DESIGN BY:	DATE LAST REVISED:		<b>METER MOUNTED ON POLE</b>	DWG. NO. <b>EBL-17</b>
APPROVED BY:	SCALE: NOT TO SCALE			

DRAWING – TYPICAL MANUFACTURED MULTIPLE METER DISTRIBUTION CENTRE



NOTES:

1. ALL METER SERVICE SHALL BE IDENTIFIED WITH RESPECT TO THEIR METER SOCKET MAIN SWITCH AND BREAKER THE IDENTIFICATION SHALL BE PERMANENTLY MARKED.
2. A CLEAN WORKING SPACE OF 900mm MUST BE MAINTAINED IN FRONT OF ALL METERS.
3. THE SWITCH OF BREAKER SHALL BE LOCATED AHEAD OF THE METER SOCKET

DRAWN BY: S.T.	DATE CREATED: JUNE 11/97	<b>CITY OF KELOWNA</b> WORKS & UTILITIES DEPARTMENT	DIVISION ELECTRICAL		
DESIGN BY:	DATE LAST REVISED:		<b>TYPICAL MANUFACTURED MULTIPLE METER DISTRIBUTION CENTER</b>	DWG. NO. <b>EBL-18</b>	REV. NO.
APPROVED BY:	SCALE: NOT TO SCALE				

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APPENDIX B  
SCHEDULE B  
BYLAW NO. 7639

CITY OF KELOWNA

ELECTRICAL SERVICE APPLICATION

Should this application be accepted, I agree to use electricity in accordance with and subject to the provisions of the City of Kelowna Electricity Regulation Bylaw No. 7639 and any amendments

SERVICE ADDRESS \_\_\_\_\_ Phone No. \_\_\_\_\_

OWNER \_\_\_\_\_ Phone No. \_\_\_\_\_

Elect. Contractor \_\_\_\_\_

Proposed Use of Building \_\_\_\_\_ Present Zoning \_\_\_\_\_

DATE SERVICE REQUIRED \_\_\_\_\_

SERVICE VOLTAGE Single Phase \_\_\_\_ Three Phase \_\_\_\_ VOLTS \_\_\_\_\_  
(i.e. 12/240, 120/308)

MAIN SWITCH SIZE \_\_\_\_\_ AMP

Number of Electric Meters Required \_\_\_\_\_

Owner/Agent/Occupier of Property \_\_\_\_\_

Application Received By \_\_\_\_\_

-----  
**FOR COMMERCIAL/INDUSTRIAL SERVICE APPLICATION USE ONLY**

LOAD DETAILS FOR COMMERCIAL/INDUSTRIAL:

Electric Heat: \_\_\_\_\_ KW \_\_\_\_\_  
Lighting: \_\_\_\_\_ KW \_\_\_\_\_  
Motor Load \_\_\_\_\_ KW \_\_\_\_\_  
Other Loads (specify) \_\_\_\_\_ KW \_\_\_\_\_

TOTAL CONNECTED LOAD \_\_\_\_\_ KW \_\_\_\_\_

Calculated Maximum Demand \_\_\_\_\_ KW \_\_\_\_\_

Largest Electric Motor Size \_\_\_\_\_ HP \_\_\_\_\_

Building Heated by: Electric \_\_\_\_\_ Gas \_\_\_\_\_ Other \_\_\_\_\_

Conductor Size to CT's (if applicable) - MCM \_\_\_\_\_, CU \_\_\_\_\_, AL \_\_\_\_\_, cables/phase \_\_\_\_\_

- Please submit:
- Site Plan (showing electrical room location)
  - Electrical drawings (single line, metering etc.)
  - Civil Plans (water, sewer & storm)
  - Legal Plan

NOTE: Personal Information collected on this form is collected for the purpose of processing this application and for administration and enforcement of the City of Kelowna Electricity Regulation Bylaw No. 7639. The information is collected under the authority of Bylaw No. 7639 and the Municipal Act. If you have any questions about this collection, please contact the City Clerk, City of Kelowna, (250) 862-3308.

SCHEDULE 'C'  
OF  
BYLAW NO. 7639

## CITY OF KELOWNA ELECTRICAL UTILITY BILLING RATES & STREET LIGHTING, MISCELLANEOUS & CONNECTION CHARGES

### C-1. BILLING RATE CATEGORIES

The following are the billing rate categories for the City:

- C-1.1 'Commercial Service' means for the supply of electricity to Premises restricted to the use of stores, hotels, industrial plants and all other than private residences.
- C-1.2 'Electric Signs, Window Lighting and All Outdoor Lighting' means for the supply of electricity for the lighting of electric signs, the windows of stores and offices and for all outdoor lighting, provided such lamps have been installed on a separate circuit from the main entrance service and equipped with a separate switch, fuses and meter; also that all electric signs and windows of stores and offices are illuminated continuously on each and every night (Sundays excepted if desired) from sunset to Ten p.m.
- C-1.3 'General Service - Class A' means for the supply of electricity to Premises restricted to the use of large commercial establishments, where electricity is used for lighting, heating and power purposes and where all requirements are taken through a single service connection and measured by a single electrical meter.
- C-1.4 'General Service - Class B' means for the supply of electricity to multi-suite apartments where all requirements are taken through a single service and measured by a single meter, electricity, at the discretion of the Customer, may or may not be used for heating water for domestic purposes.
- C-1.5 'Hospital' means for the supply of electricity for light and power used at Premises designated as Hospitals defined by the *Hospitals Act*.
- C-1.6 'Irrigation and Drainage' means for the supply of electricity to premise to be used for irrigation or drainage purposes.
- C-1.7 'Large Primary' means for the supply of electricity to Premises requiring service for a contract demand of One Thousand (1000) kilovolt amperes or more, subject to a written agreement for service at the primary voltage and where the Customer supplies or pays for all transformers and service equipment.
- C-1.8 'Municipal' means for the supply of electricity for Premises owned and operated by the City.
- C-1.9 'Power Rate' means the price or sum of money to be paid by any Customer for either the given quantity of electricity supplied to such a Customer as measured by a meter or to be paid for a service to the Premises to such a Customer for a stated period of time.

Consolidated Bylaw No. 7639 - Page 29.

- C-1.10 'Primary' means for the supply of electricity to Premises requiring service at available primary voltage and where the billing demand is not less than one hundred (100) kilovolt amperes and where the Customer supplies or pays for all transformers and service equipment.
- C-1.11 'Residential Service ' means for the supply of electricity to Premises restricted to the use of individual family living quarters or to Premises for normal residential and housekeeping requirements.
- C-1.12 'School' means for the supply of electricity for light and power used at Premises designated as Public Schools as defined by the *Public School Act*.
- C-1.13 'Secondary' means for the supply of electricity for motors and commercial and industrial heating equipment and water heating.
- C-1.14 'Temporary' means for the supply of electricity to a premise to be used on a temporary basis which is non-recurring and which will be commenced and terminated within a period of six (6) months.

BL8598 replaced Section C-2 in its entirety:

C-2 ELECTRICAL SERVICE CONNECTION CHARGES

- C-2.1 Electrical Service Connection Charges shall be charged in accordance with Appendix C-13 of this Schedule.

BL8598 replaced Section C-3 in its entirety:

C-3 RATE APPENDICES

- C-3.1 The individual rate schedules attached and forming part of this bylaw as Appendices C-1 to C-12 inclusive, are an integral part of the terms and conditions under which electricity will be sold by the City.
- C-3.2 Where a particular service is not covered under the rate schedules, the City may, on written application, establish a schedule of rates to be applied to a particular service or Customer.

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BL8247, BL8598, BL8463, BL8751, BL8908, BL9048, BL9266, BL9465, BL9542, BL9568, BL9614, BL9777, BL9888, BL9913, BL10008, BL10144, BL10242, BL1028, BL10408, BL10452, BL10466, BL10517, BL10658 and BL10790 amended Appendices C-1 through C-12;

APPENDIX C-1

UTILITY BILLING  
RATE CHARGES

RESIDENTIAL SERVICE POWER RATE

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	MINIMUM CHARGE
101 - 107	Electricity	First kWh at \$15.97 Balance at \$0.10214/kWh	\$15.97

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APPENDIX C-2

UTILITY BILLING  
RATE CHARGES

GENERAL SERVICE POWER RATE - CLASS B

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	DEMAND CHARGE	MINIMUM CHARGE
116, 201, 204	Power	First 100 kWh at \$.33376 Next 900 kWh at \$.13449/kWh Next 9000 kWh at \$.10423/kWh Balance at \$.08654/kWh	(KVA-40) x \$9.45	Greater of: a. \$30.06 or b. KVA x \$9.45  KVA = greater of a. 75% of highest KVA in past 11 months or b. current month KVA
202	Water Heat Apartment	First 100 kWh at \$.13717/kWh Next 900 kWh at \$.11419/kWh Balance at \$.09600/kWh	\$13.03	



APPENDIX C-4

UTILITY BILLING  
RATE CHARGES

TEMPORARY SERVICE POWER RATE

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	MINIMUM CHARGE
211	Power	First 100 kWh at \$.36914 Next 900 kWh at \$0.12142/kWh Next 9000 kWh at \$0.09410/kWh Balance at \$0.07814/kWh	\$13.63

Consolidated Bylaw No. 7639 – Page 33.

APPENDIX C-5

UTILITY BILLING  
RATE CHARGES

COMMERCIAL SERVICE POWER RATE

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	DEMAND CHARGE	MINIMUM CHARGE
213 & 219	Small General Service (200 amp. Or less)	First 100 kWh at \$0.30133 Next 900 kWh at \$0.12142/kWh Next 9000 kWh at \$0.09410/kWh Balance at \$0.07814/kWh		\$27.14
214	Water Heat Power	First 100 kWh at \$0.12384/Kwh Next 900 kWh at \$0.10310/kWh Balance at \$0.08668/kWh		\$13.63
215	Power General Services	First 100 kWh at \$0.30133 Next 900 kWh at \$0.12142 Next 9000 kWh at 0.09410 Balance at 0.07814  KVA - Greater of A. Current Demand B. 75% of highest KVA over previous 11	(KVA-40) x \$8.53	Greater of a. \$104.69 or b. KVA x \$8.53  KVA=greater of a.75%of highest KVA in past 11 months or b.current month KVA
218	Small General Service Motors	First 100 kWh at \$0.30133 Next 900 kWh at \$0.12142 Next 9000 kWh at 0.09410 Balance at 0.07814	(KVA-40) x \$8.53	Greater of a. \$30.06 or b. KVA x \$8.53  KVA=greater of a.75%of highest KVA in past 11 months or b.current month KVA

APPENDIX C-8

UTILITY BILLING  
RATE CHARGES

PRIMARY POWER RATE

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	DEMAND CHARGE	MINIMUM CHARGE
220	Primary Power	First 100 kWh x KVA at \$0.10298/kWh Balance at .05234/Kwh  KVA - Greater of  A. Current Demand B. 75% of highest KVA over previous 11	KVA x 8.53 KVA = current	Greater of a. \$451.41 orb. KVA x 4.85 KVA = current c. KVA = Contract demand or 75% of highest KVA in previous 11 months
223	Heavy Demand Primary Power	First 100 kWh X KVA at \$0.05546/kWh Balance at \$0.05265/kWh  KVA - Greater of a. Contract Demand (4500 KVA) b. Current Demand c. 75% of highest KVA over previous 11 months	KVA x 8.53 KVA = same as used for Consumption	KVA x 5.54 KVA = Contract demand or 75% of highest KVA in previous 11 months
224	Medium Demand Primary Power	First 100 kWh X KVA at \$0.09046kWh Balance at \$0.05234/kWh  KVA - Greater of  A. Current Demand B. 75% of highest KVA over previous 11	KVA x 8.53	Greater of a. \$451.41 or KVA x 4.85 b. KVA= current c. KVA = Contract demand or 75% of highest KVA in previous 11 months

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APPENDIX C-9

UTILITY BILLING  
RATE CHARGES

IRRIGATION AND DRAINAGE POWER RATE

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	MINIMUM CHARGE
221	Up to 10 HP	All at \$0.07575/kWh	KVA x 4.85 KVA = current
222	Over 10 HP	All at \$0.06061/kWh	KVA x 7.20 KVA = current

APPENDIX C-10

UTILITY BILLING  
RATE CHARGES

SPECIAL RATES

RATE CODE	DESCRIPTION	CONSUMPTION CHARGE	MINIMUM CHARGE
225	Kelowna Curling Club	All at \$0.08481/kWh	
226	Metered - Schools	All at \$0.12257/kWh	
227	City Property	All at \$0.08481/kWh	
280	Flatrate Street Lighting		\$11,552.06
281	Flatrate Traffic Lights		\$2,278.51
283	Transformer Rental		\$34.90
282	Electrical Safety Camera		\$19.37
284	Flatrate KPCC		\$51.28
299	Flatrate Traffic & Street Lighting		\$1,448.74

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APPENDIX C-11

UTILITY BILLING  
RATE CHARGES

STREET LIGHT LEASE CHARGES

RATE CODE	DESCRIPTION	MINIMUM FLATRATE CHARGE/LIGHT/MONTH
301	2031 Abbott Street	\$15.61
302	1125 Richter Street; 647 Raymer Avenue; 2949 Pandosy Street; 1979 Ethel Street	\$20.53
303	1054 Ellis Street	\$29.93
304	New 70w HPS light (Customer Owned)	\$5.33
305	1125 Richter Street; 1171 Harvey Avenue	\$42.55
306	New 70w HPS light (City of Kelowna Owned)	\$21.73
308	New 200w HPS light (Customer Owned)	\$11.03
309	1000 KLO Road	\$47.82
310	New 200w HPS light (City of Kelowna Owned)	\$27.45
311	City Park	\$15.77

APPENDIX C-12

UTILITY BILLING  
RATE CHARGES

SPECIAL FLATRATE CHARGES

RATE CODE	DESCRIPTION	FLATRATE CHARGE/LIGHT/MONTH
350	721 Bernard Avenue	\$5.12
351	B.C. Gas - Curts Road & Raymer Avenue; CN Rail - High Road Crossing Signal	\$20.05
352	2350 Hunter Road - Outside Plant	\$6.90
353	City Park - Jubilee Bowl Lights	\$64.24
355	Telephone Booths	\$13.46
356	Various City Owned Properties	\$14.76

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APPENDIX C-13

BL9837, BL9907, BL10008, BL10144 and 10517 amended APPENDIX C-13:

Electrical Service Connection Charge for Single Family Properties:

1. New/Temporary/Upgrade or Relocation Underground and /or Overhead:

	Overhead	Underground From Service Box	Underground From Pole
200 amp service or less, during regular hours	\$800	\$825	\$1845

\*\*All residential service greater than 200 amps and/or with more than one single family dwelling/liveable unit will be considered commercial and will pay 100% of actual costs based on a cost estimate (minimum fee \$800.00).



APPENDIX C-14

EFFECTIVE      September 1, 2011  
DATE:

APPLICABLE:    To City of Kelowna Electrical Customers receiving Service under Rate Codes 101- 107, 213, 215, 219, 116 , 201, 204, 218, 220, 221, 224, 222, 225, 226 and 227.

ELIGIBILITY:    To be eligible to participate in the **Net Metering** Program, Customers must generate a portion or all of their own retail Electricity requirements using a renewable energy source. The generation equipment must be located on the Customer's Premises, Service only the Customer's Premises and must be intended to offset a portion or all of the Customer's requirements for Electricity.

Clean or renewable resources include sources of energy that are constantly renewed by natural processes, such as water power, solar energy, wind energy, geothermal energy, wood residue energy, and energy from organic municipal waste, and shall have a maximum installed generating capacity of no greater than 50 kW.

RATE:            A Customer enrolled in the **Net Metering** Program will be billed as set forth in the rate schedule under which the Customer receives electric Service from the Company and as specified in the **Net Metering Billing Calculation** section in this schedule.

BILLING CALCULATION:

1. **Net Metering** shall be, for billing purposes, the **Net Consumption** at City of Kelowna Service meter(s).
2. If the eligible **Customer-Generator** is a net consumer of energy in any billing period, the eligible Customer generator will be billed in accordance with the **Customer-Generator's** applicable rate schedule.
3. If in any billing period, the eligible **Customer-Generator** is a net generator of energy, the **Net Excess Generation** shall be valued at the rates specified in the applicable Rate Schedule and credited to the Customers account.

4. In the event that the operation of a renewable energy generating system results in a credit balance on the **Customer-Generator's** account at the end of a calendar year, the credit will be purchased by the City of Kelowna. If such amounts are not large, they will be carried forward and included in the billing calculation for the next period at the discretion of the City of Kelowna.

SPECIAL CONDITIONS:

1. Prior to the interconnection of a **Net Metering System** the **Customer-Generator** must submit a **Net Metering Application** for review and execute a written **Net Metering Interconnection Agreement** with the Company.
2. The **Net Metered System** and all wiring, equipment and devices forming part of it, shall conform to FortisBC's, "GUIDELINES FOR OPERATING, METERING And PROTECTIVE RELAYING FOR **NET METERING SYSTEMS UP TO 50 kW And VOLTAGE BELOW 750 VOLTS**" and shall be installed, maintained and operated in accordance with those Requirements.
3. Unless otherwise approved by the Company, the **Customer-Generator's Service** shall be metered with a single, bi-directional meter.
4. The Contract Period for Service under this schedule shall be one (1) year and thereafter shall be renewed for successive one-year periods. After the initial period, the Customer may terminate Service under this Rider by giving at least sixty (60) days previous notice of such Termination in writing to City of Kelowna.
5. If the **Customer-Generator** voluntarily terminates the net-metering Service, the Service may not be renewed for a period of twelve (12) months from the date of Termination.
6. The Company maintains the right to inspect the facilities with reasonable prior notice and at a reasonable time of day.
7. The Company maintains the right to disconnect, without liability, the **Customer-Generator** for issues relating to safety and reliability.
8. Inflows of Electricity from the City of Kelowna system to the **Customer-Generator**, and outflows of Electricity from the **Customer-Generator Net Metering System** to the City of Kelowna system, will normally be determined by means of a single meter capable of measuring flows of Electricity in both directions.

9. Alternatively, if the City of Kelowna Service Provider determines that flows of Electricity in both directions cannot be reliably determined by a single meter, or that dual metering will be more cost-effective, City of Kelowna may require that, at the Customers cost, separate meter bases be installed to measure inflows and outflows of Electricity.
10. A **Net Metered System** used by a **Customer-Generator** shall meet all applicable safety and performance standards established as set forth in the City of Kelowna's Service Providers Rules and Regulations.
11. A **Customer-Generator** shall, at its expense, provide lockable switching equipment capable of isolating the **Net Metered System** from the City of Kelowna system. Such equipment shall be approved by the Company and shall be accessible by the Company at all times.
12. The **Customer-Generator** is responsible for all costs associated with the **Net Metered System** and is also responsible for all costs related to any modifications to the **Net Metered System** that may be required by the City of Kelowna including but not limited to safety and reliability.
13. The Customer shall indemnify and hold City of Kelowna or its agents harmless for any damages resulting to City of Kelowna or its agents as a result of the Customer's use, ownership, or operation of the Customer's facilities other than damages resulting to City of Kelowna or its agents directly as a result of City of Kelowna or its agents own negligence or willful misconduct, including, but not limited to, any consequential damages suffered by City of Kelowna or its agents. The Customer is solely responsible for ensuring that the Customer's facilities operate and function properly in parallel with City of Kelowna system and shall release City of Kelowna or its agents from any liability resulting to the Customer from the parallel operation of the Customer's facilities with City of Kelowna's system other than damages resulting to the Customer from the parallel operation of the Customer's facilities with City of Kelowna's system directly as a result of City of Kelowna or its agents own negligence or willful misconduct."

SCHEDULE 'D'  
OF  
BYLAW NO. 7639

CITY OF KELOWNA ELECTRICAL BILLING  
AND COLLECTION REGULATIONS

D-1. APPLICATION FOR SERVICE

D-1.1 Applications for connection with the City electrical works and for service and for the turning on or off of the electricity to or from any Premises shall be made in writing on the application form attached as Appendix B of Schedule "B" and delivered to the office designated by the **Electrical Administration Manager**, and must be signed by the **Owner** of such Premises or the **Owner's** duly authorized agent (who must produce written authority of the **Owner**), signing as such, and such **Owner** shall be personally responsible for the payment of all rates which may become payable between the date of the application and the date upon which the **Owner** shall have delivered notice to the office of the **Electrical Administration Manager** ordering discontinuance of such service.

D-1.2 The **Customer**, when making application for service, shall advise the **Electrical Administration Manager** of his load requirements. He will also notify the **Manager** of any changes that may be planned that will affect his installation and load requirements.

D-1.3 The **Electrical Administration Manager** may in any case require from any **Customer** desiring a service or renewal of a service, an agreement between such **Customer** and the **City** as a condition on which service is to be granted, and such agreement may contain any terms or conditions not inconsistent with this Bylaw.

BL8811 deleted Paragraphs D-1.4 and D-1.5 in their entirety.

BL8811 deleted Section D-2 - Termination of Service; Section D-3 - Testing of Meters; Section D-4 - Estimated Meter Readings, Section D-5 - Billings, and Section D-6 - Back-Billing in their entirety.

D-7. METERED SEPARATELY

D-7.1 Each separate division of the rate structure as set forth in this Schedule dealing with rates chargeable for electricity, and each separate voltage as set forth in the Schedule shall be metered separately and with one meter. In no case shall the readings of two or more meters be added together in computing the **Consumption** of any **Customer**, unless it is in the interest of the **City** to do so.

D-8. ADMINISTRATION FEES

BL8247, BL8350, BL9837 and 10517 replaced Sub-Section D.8.1:

D-8.1 The fee for making a standard new utility billing account application shall be as follows:

Effective February 16, 1999 - Twenty-three dollars (\$23.00)  
Effective January 16, 2000 - Twenty-seven dollars (\$27.00)  
Effective October 30, 2007 - Thirty dollars (\$30.00)  
Effective June 16, 2011 - Thirty-three dollars (\$33.00)

In the case of multiple utility billing account applications, where two or more applications are to be made for one Customer at the same time at one location the fee shall be as follows:

Effective February 16, 1999 - Twenty-three dollars (\$23.00)  
Effective January 16, 2000 - Twenty-seven dollars (\$27.00)  
Effective October 30, 2007 - Thirty dollars (\$30.00)  
Effective June 16, 2011 - Thirty-three dollars (\$33.00)

for each application.

D-8.2 The City will attempt to answer all trouble calls reporting loss of service. Should service be found to be available at the service switch, the City may remedy the defect. The City may charge a service fee for this.

BL8247, BL8350, BL9837 and BL10517 amended Sub-Section D8.3:

D8.3 If it is necessary to re-read a meter more than twice in one calendar year the following fees may apply:

Effective February 16, 1999 - Thirty-five dollars (\$35.00)  
Effective January 16, 2000 - Fifty dollars (\$50.00)  
Effective October 30, 2007 - Fifty-five dollars (\$55.00)  
Effective June 16, 2011 - Sixty-Five dollars (\$65.00)

BL8247, BL8350, BL9837, BL10008 and BL10517 amended Sub-Section D8.4:

D8.4 The fee for a change of service shall be as follows:

Effective February 16, 1999 - Twenty-three dollars (\$23.00)  
Effective January 16, 2000 - Twenty-seven dollars (\$27.00)  
Effective October 30, 2007 - Thirty dollars (\$30.00)  
Effective June 16, 2011 - Thirty-Three dollars (\$33.00)

If it is necessary to call out a work crew the fee shall be Two Hundred and Sixty dollars (\$260.00) for each call out.

If it is necessary to call out a work crew after regular hours the fee shall be Five Hundred and Six Dollars. (\$506.00)

BL8247, BL8350, BL9837, 10144 and BL10517 amended Sub-Section D8.5:

D8.5 The fee for a reconnection to supply after disconnection for violation of this Bylaw shall be as follows:

Effective February 16, 1999 - Twenty-three dollars (\$23.00)  
Effective January 16, 2000 - Twenty-seven dollars (\$27.00)  
Effective October 30, 2007 - Thirty dollars (\$30.00)  
Effective June 16, 2011 - Thirty-Three dollars (\$33.00)

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If it is necessary to call out a work crew the fee shall be Two Hundred and Sixty dollars (\$260.00) during call-out hours.

If it is necessary to disconnect/reconnect at the pole during call-out hours the fee shall be Four Hundred and Sixty dollars (\$460.00) per call out.

If it is necessary to call out a work crew after regular hours the fee shall be Five Hundred and Six Dollars. (\$506.00)

D-9. METER READING

BL8811 deleted Paragraph D-9.1 in its entirety.

D-9.2 A record of all meter readings will be kept by the City for up to seven years and, unless otherwise provided herein, such record shall be the basis for determination of all bills for service.

D-9.3 The City may institute a system whereby some or all Customers are required to read their own meters and supply such information to the City in accordance with the City's instructions on forms provided by the City for this purpose.