

Advisory

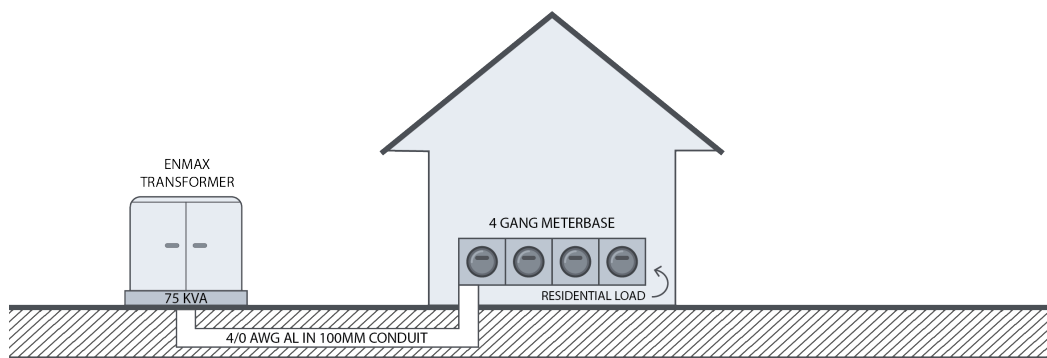
July 24, 2024

Subject:

Adding additional electrical load to a row house service

Background:

Consumers services in row housing buildings have been permitted to be fed from a single supply service from an Enmax transformer. When these types of row housing installations are designed, all electrical loads that are in each row house are considered based on a calculation to Part 1 of the Canadian Electrical Code (CEC) – Section 8. The supply service conductor that is fed from the Enmax transformer to the multi-gang meterbase is sized based on this Section 8 calculation. The amount of spare capacity can vary depending on the size of the supply service conductor and what loads are being fed from each consumer's service.



Advisory:

When an owner in one of the units is considering adding an additional load to their consumers service, they need to consider if their individual consumers service has enough capacity to accept the additional load. The supply service also needs to be investigated to ensure that the additional load can be accommodated. To determine the capacity of both the consumers service and supply service, a calculation is required to be performed by an electrician, designer, or engineer, based on Section 8 of the CEC. A calculation is required to be performed for any additional loads that are 1500 watts or larger.

When an additional load is added to a consumer's service it will impact the supply service conductor feeding all row house units. The condo board or association needs to be aware of the additional load and provide permission to the owner or owner's representative to add the additional load. This permission is a required part of the electrical permitting and inspection process. A permanent label is required to be placed on the consumer's electrical meter describing the load that has been added to the service.

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