

ELECTRICAL LOAD CALCULATIONS

Please complete the following and return to the Building Division with the application.

CONSTRUCTION SITE ADDRESS: _____

Construction Type: ☐ Commercial ☐ Residential

1. For what will the building be used? (Storage, Workshop, Gym, Etc.) _____
2. Will electrical be installed in the building? (if NO, no additional information is needed) ☐ Yes ☐ No
3. Will a sub-panel be installed in the building? (if NO skip to #4) ☐ Yes ☐ No
 - 3a. What will be the sub-panel size / rating (example: 100 amp.) _____
4. List the electrical equipment loads on the **load calculation table** below.
5. How many circuits will be installed? (minimum of 2) _____
6. What will be the means of disconnect? _____
7. How will the electrical be run from the main house panel? - Conduit? (fill in questions 8 - 12)
- Direct burial? (fill in question 13)
8. Conduit type? Rigid Metal (RMC) Intermediate Metal (IMC) Non-metallic conduit (PVC)
9. What size conduit is being used? _____ Depth: _____
10. Number of conductors (wires) being run in conduit? _____
11. Size of conductors (wires) being run in conduit? _____
12. Type of conductors (wires) being run in conduit? _____
13. Type of Direct Burial wire being used? _____ Depth: _____
14. Distance of conduit to be run? _____
15. What size conductors are being used for each of the following:
General wiring: _____ Service entrance: _____ Grounding conductor: _____
16. Grounding Electrodes to be used: ☐ Ground Rod s ☐ CEE/UFER ☐ Water line
17. New Service / Sub-panel Amps: _____

ELECTRICAL LOAD CALCULATION:

General Load: Square Footage @ 3 watts per sq/ft. = _____ watts.

Indicate load wattages & amperages for each item applicable below:

First 10,000VA at 100% remainder at 40%. Small appliance and laundry circuit loads 1500VA. Stationary appliance minimum 5000VA.

Description of Equipment	# of Units	Equipment Loads	Description of Equipment	# of Units	Equipment Loads
(Ex. Oven, Clothes Dryer, Furnace, AC etc.)	(Ex.1)	(Ex. 4000VA)			

Total wattage divided by 240

Total Load Calculation: _____ Amps

Additional information may be required for final approval of electrical systems.

The following information must be clearly identified on the construction drawings: furnace location, water heater location, vent termination for dryer, furnace and water heater, water meter location.