



CITY OF LEBANON ~ PLANNING & DEVELOPMENT

Residential/Commercial Electrical Work Requirements (All work to comply with the 2017 National Electrical Code)

WORK THAT REQUIRES AN ELECTRICAL PERMIT:

1. Any new electrical work (new circuits or circuit extension).
2. Any electrical work associated with the electrical service (replacing a panel, meter can, service drop or feeder). A service installation whether temporary or permanent will require getting a Work Request Number from Liberty Utilities. All service installations will require an inspection by the Lebanon Electrical Inspector prior to its being energized.
3. All underground or under slab electrical installations need to be inspected prior to covering up the work.
4. All new electrical work needs to be inspected prior to covering the work (with insulation, sheathing or before flooding a drop ceiling).
5. All electrical work (new construction, remodeling) needs to have an electrical plan when filing an application for a permit. Also needed, a statement identifying who the licensed electrical contractor is (or in the case of a homeowner, their name stating they're doing the work). It is also acceptable to supply an as-built electrical plan at the time of the final inspection. A plan will be required to receive a Certificate of Completion/Occupancy.
6. The electrical contractor that did the work must be on the site when the final inspection takes place.

WORK THAT DOES NOT REQUIRE AN ELECTRICAL PERMIT:

1. Routine maintenance/replacement of existing light fixtures or devices (switches, outlets).
2. Low voltage wiring (phone, cable).

City of Lebanon,
New Hampshire



**Building/Zoning Permit
Application Form**

Property Owner (Owner of Record): _____ Tel.#: _____

Mailing Address of Owner: _____ Fax #: _____

Email: _____

CONTACT PERSON FOR PROJECT: _____ Tel.#: _____

Mailing Address: _____ Fax #: _____

Email: _____

1. Project Location:

City Tax Map:	Lot:	Plot:	Zoning District:
Location (Physical Address of Project):			

2. Project Description:

Describe the nature of work proposed, in detail:

Cost of Project Construction: \$ _____

3. Type of Occupancy: (check as appropriate)

Existing	<input type="checkbox"/> Vacant Lot	<input type="checkbox"/> One Family	<input type="checkbox"/> Two Family	<input type="checkbox"/> Multi Family	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial
Proposed		<input type="checkbox"/> One Family	<input type="checkbox"/> Two Family	<input type="checkbox"/> Multi Family	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial

For Commercial or Industrial:

Specific Type of Use (for example: retail, office, industrial, etc.):

Name of Commercial/Industrial Tenant (if known):

THE UNDERSIGNED OWNER HEREBY REQUESTS A BUILDING/ZONING PERMIT FOR THE ABOVE USE, TO BE ISSUED ON THE BASIS OF THE REPRESENTATIONS CONTAINED HEREIN, INCLUDING ALL NECESSARY SUPPORT STATEMENTS. PERMIT IS VOID IN THE EVENT OF MISREPRESENTATION AND/OR NOT BEING IN COMPLIANCE WITH THE BUILDING CODE, ZONING ORDINANCE, SITE PLAN REVIEW/SUBDIVISION REGULATIONS (IF APPLICABLE) AND OTHER APPLICABLE STATE AND CITY LAWS AND REGULATIONS. **CONSTRUCTION IS NOT AUTHORIZED UNTIL PERMIT IS ISSUED.**

Property Owner Signature: _____ Date: _____

IF, AS OWNER, YOU WISH TO DESIGNATE AN AGENT TO ACT ON YOUR BEHALF, PLEASE READ THE FOLLOWING STATEMENT AND SIGN BELOW. I hereby designate the individual listed as *contact person for project* as my agent for the purpose of procuring the necessary local permits for the proposed work as described herein. Representations made by my agent may be accepted as though made by me personally, and I understand that I am bound by any official decision made on the basis of such representation.

Property Owner Signature: _____ Date: _____

FOR OFFICE USE ONLY

APPROVED - ZONING ADMINISTRATOR: _____ DATE: _____

APPROVED - BUILDING OFFICIAL: _____ DATE: _____

Received	File#	Permit#	Issued
Const. Cost \$	Permit Fee \$	Voucher#	Date Paid

(Copy provided to Assessing Dept. on _____)

ELECTRICAL STATEMENT

Permit Number:(staff to complete)

Address:

Short description of electrical work done:

Electrical drawing/sketch (if large project, formal plans are sufficient)

Electrical Work Done by _____

NH Maser License Number _____

Homeowner doing electrical work _____

Signature of Electrical Inspector _____

Date work completed and inspected _____

(work done per the 2017 NEC)

SUPPORT STATEMENT FOR SOLAR PHOTOVOLTAIC (PV) PERMIT APPLICATION
(IF THE PROJECT IS NOT SOLAR, YOU DO NOT NEED TO COMPLETE THESE REMAINING PAGES)

***All solar work is to be done according to Article 690 of the 2017 NEC.**

Contractor: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Contact Name & Phone: _____

Email: _____

License Type: _____

License Number: _____

Scope of Work: _____

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Building information (For Roof-Mounted Systems ONLY)

Building Type (e.g., house, shed, barn, slab): _____

Building Height (in feet): _____

Is the building new or existing construction? New Existing Construction NA

NOTE: Solar cannot reflect upon other residences

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Electrical Description:

Size (amps) and type (phase, voltage) or electrical service: _____

Amperage of main breaker: _____ Will the value of main breaker change? Yes No

Rated amperage of the bus bar in the main panel: _____

Type of interconnection (e.g., breaker-load side, supply-side interconnect): _____

Electrical Panel Location: _____

If load side interconnect, will solar intertie into a subpanel: Yes No

If Yes, rated amperage of the subpanel bus bar? _____

Value of breaker protecting subpanel bus bar? _____

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Attachments for application (Check all that are attached. See example on next pages.)

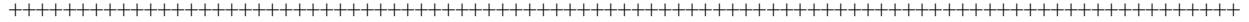
One-line Electrical Drawing

One-line Sit Plan Drawing

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Instructions for ATTACHMENTS to the City of Lebanon Electrical/Solar PV Permit Application

Please Complete the Application form (pages 1-2) and provide ALL applicable attachments based on the below instructions and examples for Attachments 2-7. Attachment 8 is a structural review. Worksheet to be used if applicable, provided as a separate form. Additional information required by a municipality for large solar PV Systems can be submitted as an attachment.



Attachment 1: One-Line Electrical Drawing Must Show:

- Size of electrical service
 - + Size of Main Breaker
 - + Size of Bus Bar (if known)
- Type of electrical services
- If interconnection point is a subpanel
 - + Size of Subpanel Main Breaker
 - + Size of Subpanel Bus Bar (If known)
- Nominal power of solar system (Watts)
 - + DC Capacity: Nameplate “STC” Value of all panels, watts
 - + AC Capacity: Total AC capacity of Inverters, watts
- Batteries (If Present): Type, Quantity, Nominal Voltage, Capacity kWh
 - + H2 mitigation methods (IF Necessary)
- Interconnection method
 - + Size of overcurrent protection
- Number, type and electrical configuration of electrical configuration of solar panels
- Number and type of Inverters
- Values for source stickers: NEC 690.53; NEC690.54 (Encouraged, Not Required)
- Wiring methods
 - + Wire Type(s), Size
 - + Conduit Type(s), Size
- Solar metering (If Appropriate)
- Electrical current contribution from all PV sources
- Electrical grounding details: Wire Type, Size, GEC



Attachment 2: One-Line Site Plan Drawing Must Show:

- Location of solar panels
- Location of inverters and major equipment
- Location of roof obstructions (Vents, Chimneys, etc.)
- Location of Main Breaker Panel
- Location of Utility Meter
- Location of AC disconnect
- Location of batteries and/or charge controllers (if appropriate)
- Location of solar metering (If appropriate)
- Planned conduit path (Encouraged, Not Required)
- Gross dimensions of structure (If appropriate)
- Approximate layout of building or other structure (If appropriate)
- Property lines, zoning, and setback considerations (If appropriate)
- Trenching details: Location, Depth and Length of Trench (If appropriate)
- A notation indicating scale – or not to scale (Both are Acceptable)

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Attachment 3: Solar PV Module Specifications Sheets (provide PDF from manufacturer)

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Attachment 4: Inverter Specification Sheets (provide PDF from manufacturer)

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Attachment 5: Pole Mount or Ground Mount Information (if applicable)

- Racking system
- Mounting specification sheets and details from manufacturer (PDFs)
- Manufacturer's Pre-Engineered Document or PE Stamp
- Code Compliance Manual
- One-way distance from the Solar PV system to the Interconnection point
- Electrical grounding details
- Height of solar PV system at maximum design tilt
- Applicable zoning information if not shown on site plan (e.g., setback from property line).

Information for Homeowners' Doing Electrical Work

(01-2022)

In New Hampshire RSA 319-C:15 allows a person to do electrical work in a single family residence as long as this is their primary residence and is being occupied by the person doing the electrical work. All electrical work must be done to standards set forth in the National Electrical Code (2017 Edition).

If you are going to do the electrical work, you **MUST SCHEDULE A PRE-PERMIT MEETING**. This meeting is to go over the scope of the work you are going to do in order to try and avoid having to redo any of the work because you may not have been aware of all the NEC regulations.

Chapters 1-4 of the 2017 NEC contains many standards of wiring of single family homes. Here are a few of these articles:

- 1) Article 210.8 addresses circuits that need to be Ground Fault Protected (GFCI'd).
- 2) Article 210.12 deals with circuits that need Arc Fault Protection.
- 3) Article 334 deals with the permitted use and installation of romex wire.
- 4) Article 314.16 deals with the number of conductors allowed in the electrical boxes.
- 5) Article 406.13 tells when it is necessary to use tamper resistance outlets.
- 6) Article 300.5 gives minimum cover for buried circuits.
- 7) A very important article is 210.52 which gives the layout of receptacles in different rooms and the required circuits needed in different areas of a single family home.

These are only a few of the more common articles in the NEC pertaining to single family home wiring. Again, all electrical work done by a homeowner MUST confirm to standards found in the 2017 NEC which has been adopted by the State of New Hampshire and the City of Lebanon.

If you have further questions, please contact the City of Lebanon Codes Dept. at 603 448 1457.