



**North  
Attleborough  
Electric  
Department**

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## DEMAND CALCULATIONS - RESIDENTIAL

OWNER \_\_\_\_\_  
 JOB ADDRESS \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 TOTAL NUMBER OF UNITS \_\_\_\_\_

DATE \_\_\_\_\_  
 PAGE \_\_\_\_\_  
 SERVICE  
 DWELLING UNITS

_____ UNITS @ _____	SQ. FT.		_____ SQ. FT.
_____ UNITS @ _____	SQ. FT.		_____ SQ. FT.
_____ UNITS @ _____	SQ. FT.		_____ SQ. FT.

LIGHTING LOAD TOTAL SQ. FT. _____ X 3 V.A. (TABLE 220-12)	_____ V.A.
SMALL APPLIANCE CIRCUIT 3000 V.A. X _____ UNITS (220-52a)	_____ V.A.
ADDITIONAL SMALL APPLIANCE BRANCH CIRCUITS 1500 V.A. EACH	_____ V.A.
LAUNDRY CIRCUIT 1500 V.A. X _____ UNITS (220-52b)	_____ V.A.
<b>TOTAL LIGHTING LOAD</b>	_____ V.A.

### LIGHTING DEMAND AS PER TABLE 220-42

FIRST 3000 V.A. @ 100%	_____ 3000 V.A.
(3001 TO 120,000) _____ V.A. X 35%	_____ V.A.
(OVER 120,000) _____ V.A. X 25%	_____ V.A.

**TOTAL LIGHTING DEMAND** \_\_\_\_\_ V.A.

ELECTRIC RANGE DEMAND (TABLE 220-55, 220-60)	_____ V.A.
ELECTRIC HEAT (220-51) (0 IF A.C. IS LARGER)	_____ V.A.
AIR CONDITIONING (440, 430-24) (0 IF E.H. IS LARGER)	_____ V.A.
ELECTRIC CLOTHES DRYER(S) (TABLE 220-54)	_____ V.A.
FIXED APPLIANCE LOAD (220-56 TABLE - 75% OF TOTAL V.A. IF MORE THAN 3 APPLIANCES IN A DWELLING UNIT OR UNITS)	_____ V.A.
MOTOR LOADS (430 AND 440)	_____ V.A.
25% OF THE LARGEST MOTOR (430-22, 430-24, AND 430-25)	_____ V.A.
CORRIDORS AND COMMON AREAS	_____ V.A.
EXTERIOR LIGHTING	_____ V.A.
MECHANICAL ROOM LOADS	_____ V.A.
<b>TOTAL BUILDING DEMAND</b>	_____ V.A.

VOLTAGE \_\_\_\_\_ PHASE \_\_\_\_\_      V.A. - \_\_\_\_\_ = \_\_\_\_\_ AMPS  
 VOLTS - \_\_\_\_\_

**NOTE**  
 FOR 3 PHASE 208 USE 360 VOLTS  
 FOR 3 PHASE 480 USE 830 VOLTS  
 FOR A.C. USE 7 AMPS PER TON FOR 3 PHASE  
           USE 10 AMPS PER TON FOR 1 PHASE  
 OFFICE SPACE 3 1/2 V.A. PLUS 1 V.A. FOR RECEPTACLES  
 STORES 3 V.A.

SIGNATURE \_\_\_\_\_  
 OF PREPARER \_\_\_\_\_  
 DATE \_\_\_\_\_