



Community Development Department  
 1200 L.W. Besinger Drive - Room 214  
 Carpentersville, IL 60110  
 Hours: M-F 8:30 AM – 5:00 PM  
 Phone (847) 551-3478  
 Fax (847) 426-0864  
<http://vil.carpentersville.il.us>

## Furnace Replacement

<b>ADDRESS:</b>	<b>Date Received:</b>
<b>Applicant Name:</b>	<b>Check in by:</b>
<b>Applicant Daytime Phone:</b>	<b>Date Returned to Applicant:</b>
<b>Applicant Email Address:</b>	

I understand that any missing or incomplete items or failure to clearly describe the proposed scope of work will cause this plan review to be delayed until the submittal is complete and/or the work is correctly described. Upon submittal of the remaining items, I understand that the plans are still subject to review by the Village and that corrective measures and/or additional information may be required.

\_\_\_\_\_  
 Applicant Signature

\_\_\_\_\_  
 Date

### Submittal Checklist, minimum requirements:

OK	N/A	Item Description
<input type="checkbox"/>	<input type="checkbox"/>	Homeowners Association approval letter, if required
<input type="checkbox"/>	<input type="checkbox"/>	Completed building permit application
<input type="checkbox"/>	<input type="checkbox"/>	Detailed scope of work and equipment data
<b>Comments / Other Submittals Required:</b>		

### Minimum Requirements:

1. Submit a completed mechanical permit application, along with data on the size of the equipment to be installed ( in BTU/hr. input rating or tons of cooling). The mechanical contractor must be registered with the Village.
2. Furnaces must be installed in accordance with the manufacturer's installation instructions.

3. Furnaces must be accessible for service, repair and replacement with not less than 30" of working space provided.
4. Fuel shut off valves must be provided for each unit.
5. Vent connectors must be pitched at least 1/4-inch per foot, be securely supported, and joints fastened with sheet metal screws.
6. Furnaces must have a disconnect switch mounted within sight.
7. Maintain minimum clearances to combustible from furnace and vent connectors.
8. Gas piping to be rigid black galvanized pipe, schedule 40.
9. Rusted and deteriorated vent connectors shall be replaced.
10. Installer shall conduct a safety check and verify proper operation of the furnace and components at start up.
11. Furnaces shall be sized in accordance with the building's heat load. Factors such as wall thickness, wall and ceiling insulation 'E' values of glazing, air leakage, sizing and construction of ductwork, and solar orientation must be considered. Heating equipment shall be sized based on building loads calculated in accordance with ACCA Manual J or other approved heating calculation methodologies.
12. Category IV condensing appliances shall have an auxiliary drain pan where damage to any building component will occur as a result of stoppage in the condensate drainage system.  
Exception: appliances that automatically shut down operation in the event of a stoppage in the condensate drainage system.
13. Permit fee: \$50, payable at time of permit issuance.
14. **Please note that there is a \$50 fee for re-inspections.**

**Minimum Required Inspections:**

Final inspection is required when all work is completed.

**Schedule Inspections With:**

Community Development Department

**Helpful Contact Information:**

J.U.L.I.E. 811

Nicor (800) 730-6114

Community Development (847) 551- 3478