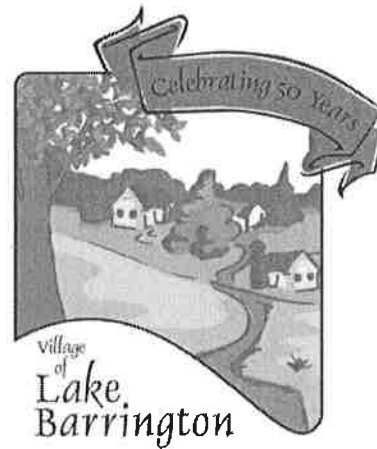


Village of Lake Barrington

23860 N. Old Barrington Road
Lake Barrington, IL 60010
www.lakebarrington.org

Telephone (847) 381-6010
Fax (847) 381-8557
lakebarrington@lakebarrington.org



GENERATOR

1. Submit a completed Building Permit application for the **Village of Lake Barrington**.
2. Submit a copy of your **Plat of Survey** showing the location of the proposed generator.
3. Submit a copy of **Manufacturer's Specifications** of the proposed generator.
4. Submit a copy of the contractor's estimate/proposal.
5. If required, "**Subdivision Architectural Control Approval Letter**" for the project.
6. Copy of **Electrician's License**. All contractors doing work under a building permit must be licensed/registered in the Village of Lake Barrington.

REQUIREMENTS

1. Before digging, call "**Julie**" at 1-800-892-0123, for location of underground utilities.

Notes:

Natural Gas Supply & Piping:

Nicor (or other gas supplier) has been notified of the generator and all existing gas appliance fuel requirements. Customer will act upon Nicor recommendations to ensure an adequate gas supply. Gas piping to generator will be sized per manufacturer recommendations.

All gas piping will be installed per International Fuel Gas Code 2012 using AGA approved materials. A gas shut-off will be installed within 6 feet of the generator. A UL listed flexible gas connector provided by the manufacturer will be installed. All above grade gas piping to be black steel schedule 40 and installed a minimum 3 ½" above grade. Black piping installed below grade will be wrapped with yellow Polyken electrochemical & corrosion-resistant pipe wrap.

Polyethylene (PE) piping used below grade will be installed with a #18 yellow tracer wire, and caution tape will be installed 3"-6" below grade during backfill of the trench. Polyethylene piping will be terminated using an anodeless riser. All below grade piping will be installed with a minimum of 12 inches of cover.

Generator Placement & Foundation:

The generator will be placed a minimum of 18" from the structure and a minimum of 5 feet from any window or air intake, per manufacturer. The area below the generator will be excavated to a depth of 5". Crushed limestone and/or pea gravel will be installed directly under the generator per manufacturer requirements.

Electrical Installation:

An outdoor generator service disconnect is located on the side of the generator. A maximum of 6 feet of liquidtight flexible conduit will be installed between the generator and the structure/rigid conduit. Duct seal will be applied over the opening of all raceways as they enter the structure. Conduit installed between the generator and the automatic transfer switch (ATS) and installed between the ATS and the existing home circuit breaker panel will be IMB outdoors and EMT indoors. Conduit installed between the meter cabinet and the ATS will be IMC only. Grounding bushings will be used on all conduit terminations. All wiring to be stranded copper, THHN/THWN 600 volt insulated in sizes, as noted on drawing. A warning label will be applied at the electric meter and main circuit breaker panel per NEC 702.7(A). A 5/8" x 10' ground rod and a grounding electrode conductor will be installed at the meter cabinet or the exterior mounted ATS if one does not currently exist. The existing water main grounding electrode conductor will be disconnected from the existing home circuit breaker panel. It will be extended and terminated at the ATS, which is now the first point of service disconnect. The existing bonding screw or jumper will be removed from the existing home circuit breaker panel.

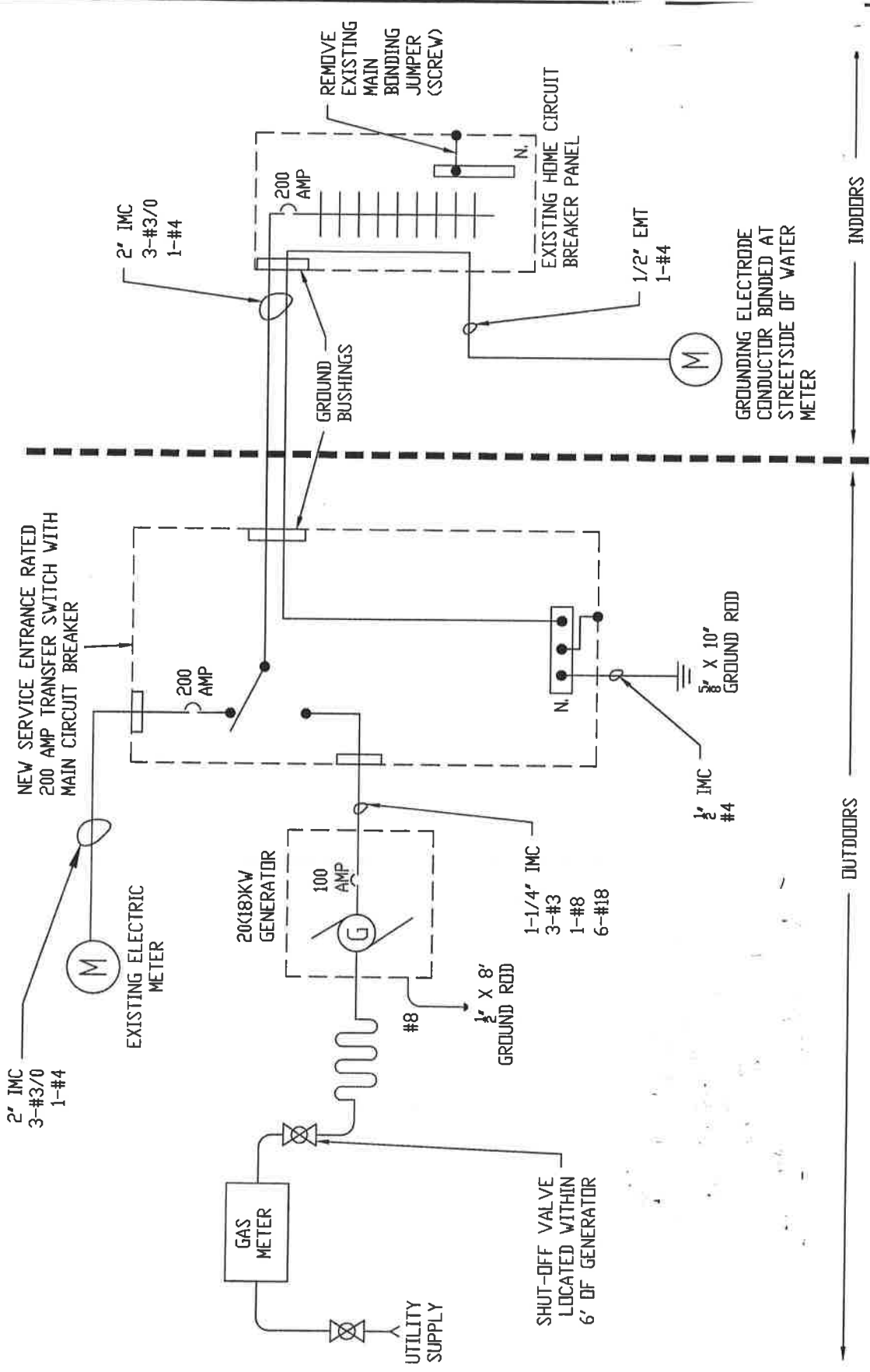
Automatic Transfer Switch (ATS):

The ATS when installed indoors next to the existing home circuit breaker panel will be installed with a minimum clearance of 30" width, 36" depth and a height of 6.5' or it will be installed outdoors next to the electric meter. The ATS has a NEMA 3R enclosure and is U.L. listed as service entrance rated and will include a main service disconnect (circuit breaker).

Additional Requirements:

SAMPLE

TYPICAL 20(18) kW NATURAL GAS
AUTOMATIC STANDBY GENERATOR
INSTALLATION



** GAS PIPING AND ELECTRICAL INSTALLATION PER ATTACHED NOTES**

20 kW/200 OUTDOORS

FOR SUBMITTALS TO LAKE BARRINGTON