



TOWNSHIP OF NORTHAMPTON
55 Township Road
Richboro, PA 18954
Zoning/Building/Code Enforcement Department
Telephone #: 215-355-3883
Fax #: 215-357-3650

GAS GENERATOR REQUIREMENTS

- An Electrical Permit Application is required for all generators. (See attached info sheet.) A Mechanical Permit Application is required for natural gas-fueled generators only. Show name, address, and contractor's information on all plans.
- Gas generators are required to comply with NFPA 37.
- Gas generators are required to be located at least five (5) feet from wood frame/combustible walls, shrubs, windows, doors, and other openings into the house such as dryer ducts, kitchen exhaust ducts, combustion air ducts for heaters, ventilation air ducts for finished basements, bathroom fan exhaust ducts, etc.
- Some manufacturers have a reduced clearance to the building wall and shrubbery and would need to be verified on the plan review. This would not reduce the clearances to openings into the house.
- Please provide a complete copy of the installation and/or owner's manual book from the manufacturer. In most cases, only some pages are needed. We can return the book(s), if requested, after the plan review is completed.
- Please provide a plan view of the house showing the location of the gas meter and generator with dimensions to the building and other openings into the house, as indicated above, and distances to shrubs/trees/combustibles/etc.
- Please provide **a clear gas piping diagram** from the gas meter to the generator showing:
 1. the input btu's of the generator;
 2. size of the gas piping, material (galvanized steel), and lengths of piping;
 3. all gas shut-off valves, unions, drip leg, and piping support spacing, if required;
 4. a minimum of six (6) inches is required above grade to galvanized piping.
- A gas piping and test is required, 3-5 p.s.i. for 15 minutes. Show this on the plans. **Please call our office for the inspection.**
- An electrical inspection by United Inspection Agency (215-542-9977) must be completed before the final inspection from our office.
- A gas meter upgrade is required. Please provide a copy of the PECO "Increase of Natural Gas Load" form with the generator application (PECO's telephone # is 215-956-3270). The meter upgrade/replacement is required for final inspection.

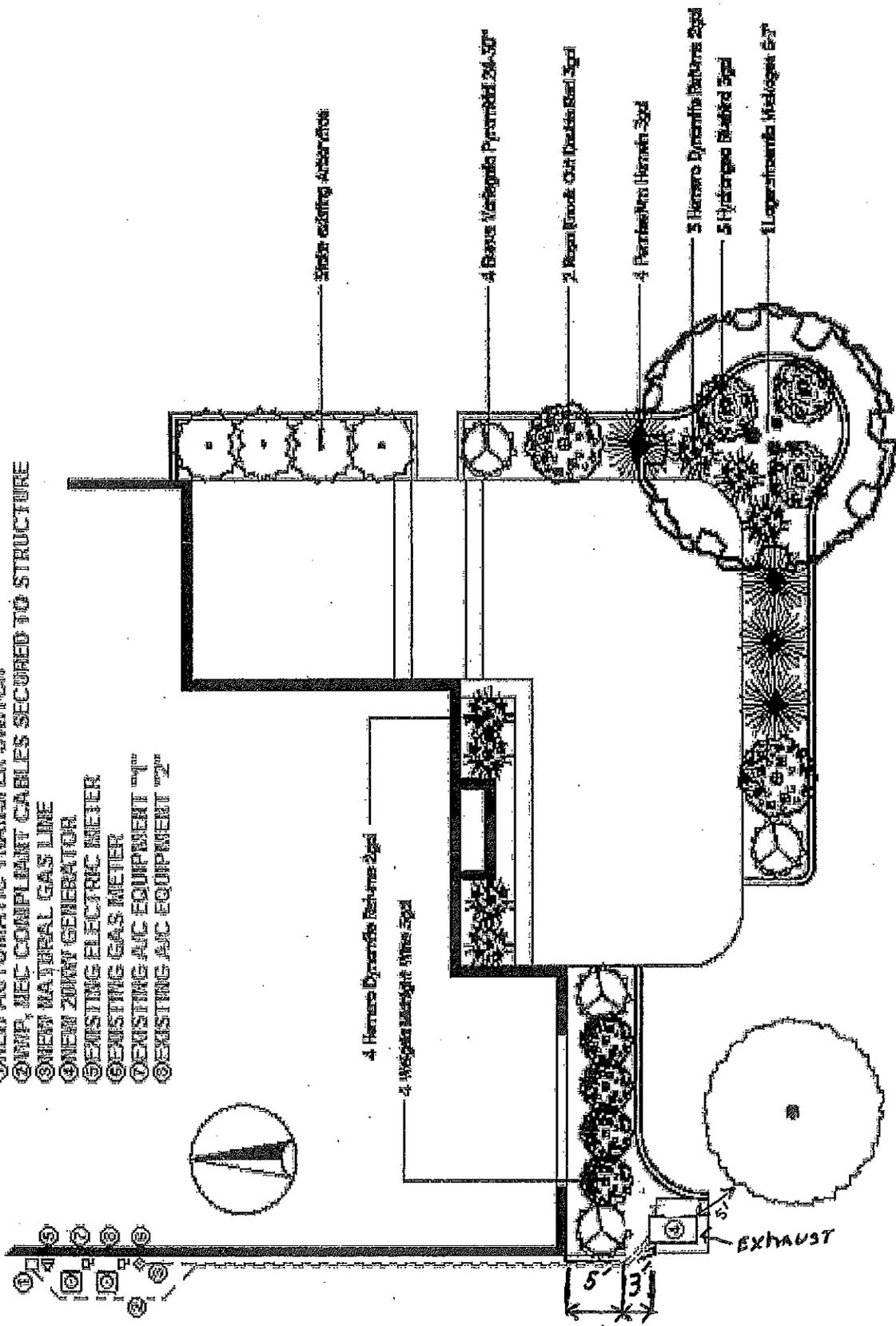


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ELECTRICAL GENERATOR REQUIREMENTS

- An Electrical Permit Application is required for all generators. Show name, address, and contractor's information on all plans.
- Installation of generator must comply with NEC Article 702.
- Provide local calculation of all loads connected to generator in accordance with Article 220.
- Provide a copy of the wiring diagram showing generator, transfer switch, and service panel complete with grounding.
- Provide a copy of generator and transfer switch specifications.
- If generator has an automatic transfer switch with load management, that information must be included.
- Portable generators require a permit for the male receptacle, transfer switch, or interlock on existing panel, interlock must be listed and labeled by recognized testing lab (provide cut sheet for interlock).
- When filling out the electrical permit application, show size of generator in kw, size of transfer switch in amps, and size of subpanel in amps.

- ① NEW AUTOMATIC TRANSFER SWITCH
- ② NEW, NEC COMPLIANT CABLES SECURED TO STRUCTURE
- ③ NEW NATURAL GAS LINE
- ④ NEW ZONING GENERATOR
- ⑤ EXISTING ELECTRIC METER
- ⑥ EXISTING GAS METER
- ⑦ EXISTING A/C EQUIPMENT "1"
- ⑧ EXISTING A/C EQUIPMENT "2"



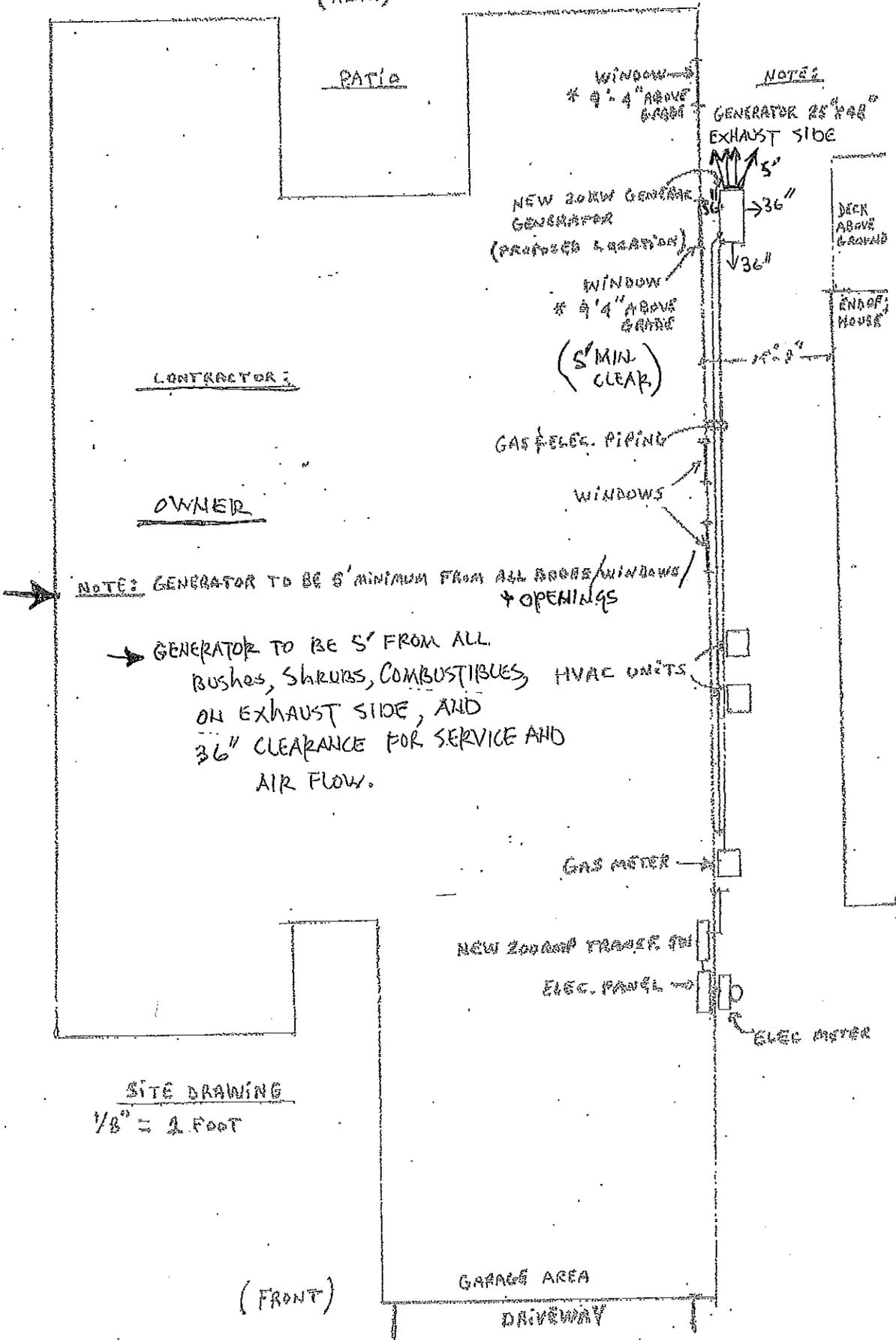
**PROPOSED NATURAL GAS
20KW STANDBY GENERATOR
INSTALLATION**

EXAMPLE

(REAR)

→ OWNER

CONTRACTOR →



SITE DRAWING
1/8" = 1 FOOT

(FRONT)

GARAGE AREA
DRIVEWAY

EXAMPLE

→ OWNER

CONTRACTOR

METER TO BE SIZED (CAPACITY) FOR HOUSE AND GENERATOR

PROVIDE PECO CALC./CHANGE FORM

Existing Gas meter

1/2" FP Ball Valve

1/2" FP Ball Valve

3/4" Union

3/4"

Flexible Fuel Line

1/2" GALV. PIPE

1/2" GIP

Caution Buried Gas Line below foil tape (opt) 12" Above Line

Grade 12" MIN. Below Grade

3 1/2" MIN. ABOVE GRADE

60' LENGTH (SHOW LENGTH)

Con-stab Anodeless meter

Risers (BOTH ENDS) ASTM D2513-90C Category I

Listed 1/2" HDPE & CSA Pipe threads ANSI B1.20.1

Steel Parts ASTM A53

Polyethylene ASTM D2513

1 1/2" SDR 11 IPS

Polyethylene

ASTM D2513 Cat. I

ASTM B31.8-1995

18AWG-Solid CCS Tracer wire

30 mil HDPE #30 mil

Direct burial only

yellow (Copper head Ind. wire)

Generator 20kW 307,000 BTU (SHOW SIZE)

Coupling and Stub

Driplog on the heel

AIR TEST TO BE WITNESSED BY TOWNSHIP INSPECTOR.

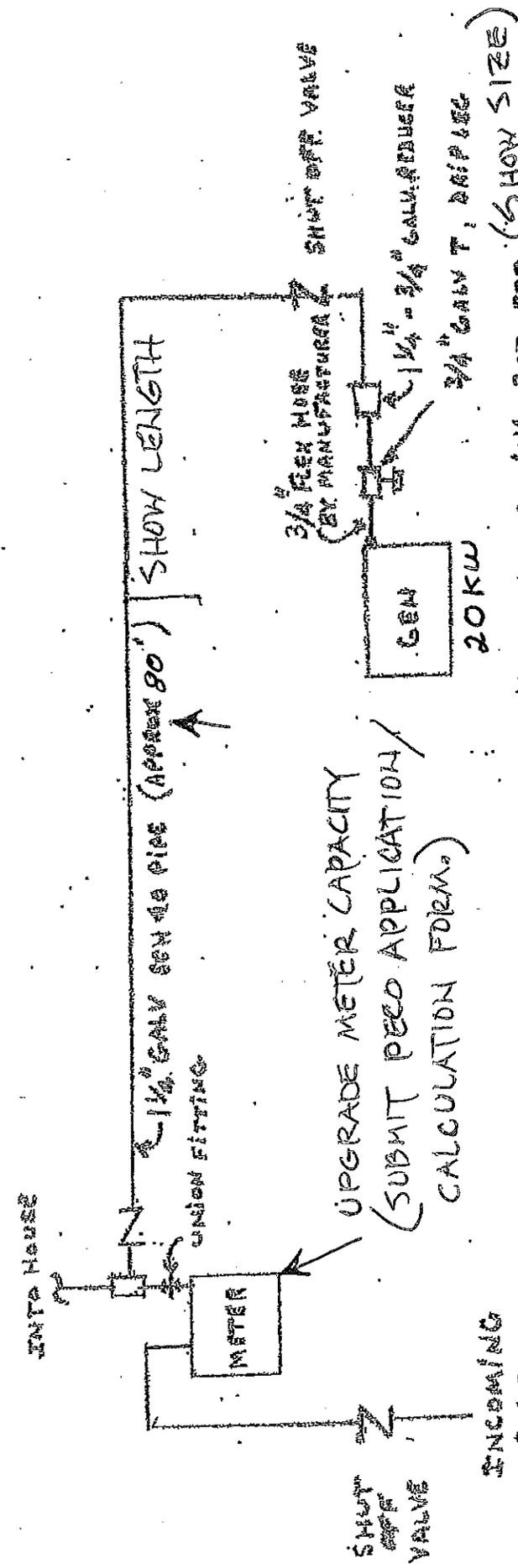


EXAMPLE

CONTRACTOR

GAS PIPING DRAWING (NTS)

- * GALVANIZED PIPE SHALL BE SUPPORTED TO BUILDING AT 6" O.C. MAX.
- * PRESSURE TEST ON GAS PIPING TO BE WITNESSED BY TOWNSHIP INSPECTOR 5 PSI / 15 MIN



UPGRADE METER CAPACITY
(SUBMIT PEED APPLICATION/
CALCULATION FORM)

- * MAX BTU RATING 307,000 (SHOW SIZE)
- * ALL PIPING TO BE MINIMUM 6" AFG
- * SHOW BASE / PAD INSTALLATION.
IF ON A SLOPE CONTACT INSPECTION DEPT.