



TOWN OF EAST HAMPTON
Planning and Zoning Commission
1-860-267-7450
www.easthamptonct.gov

PZC _____
 Date _____

Fee Paid _____
 Check # _____
 Rec'd. By _____

LOCATION _____

MAP _____ BLK _____ LOT _____

PROJECT NAME _____

ZONE _____

APPLICANT _____
 ADDRESS _____

PHONE _____
 EMAIL _____

CONTACT PERSON _____

PHONE _____
 EMAIL _____

OWNER _____
 ADDRESS _____

PHONE _____
 EMAIL _____

SURVEYOR/ENGINEER _____
 ADDRESS _____

PHONE _____
 EMAIL _____

ATTORNEY _____
 ADDRESS _____

PHONE _____
 EMAIL _____

APPLICATION TYPE *(application must be completed in FULL in order to be accepted)*

- ___ 1. SUBDIVISION /RESUBDIVISION /CONSERVATION SUBDIVISION NO. OF LOTS _____
- ___ 3. SITE PLAN _____ MODIFICATION _____ Residential _____ Commercial _____
- ___ 4. SPECIAL PERMIT---SECTION _____ OF THE ZONING REGS. FOR _____
- ___ 5. ZONE CHANGE---FROM _____ TO _____
- ___ 6. AMENDMENT TO ZONING REGULATIONS
- ___ 7. LAKE POCOTOPAUG PROTECTION AREA _____
- ___ 8. ACTIVE ADULT NO OF UNITS _____
- ___ 7. OTHER (DESCRIBE) _____

APPLICATION REQUIREMENTS: This application and 10 sets of plans shall be submitted to the Planning Office and shall be received by the Commission at the next regularly scheduled meeting. *(see meeting schedule for deadline dates)*

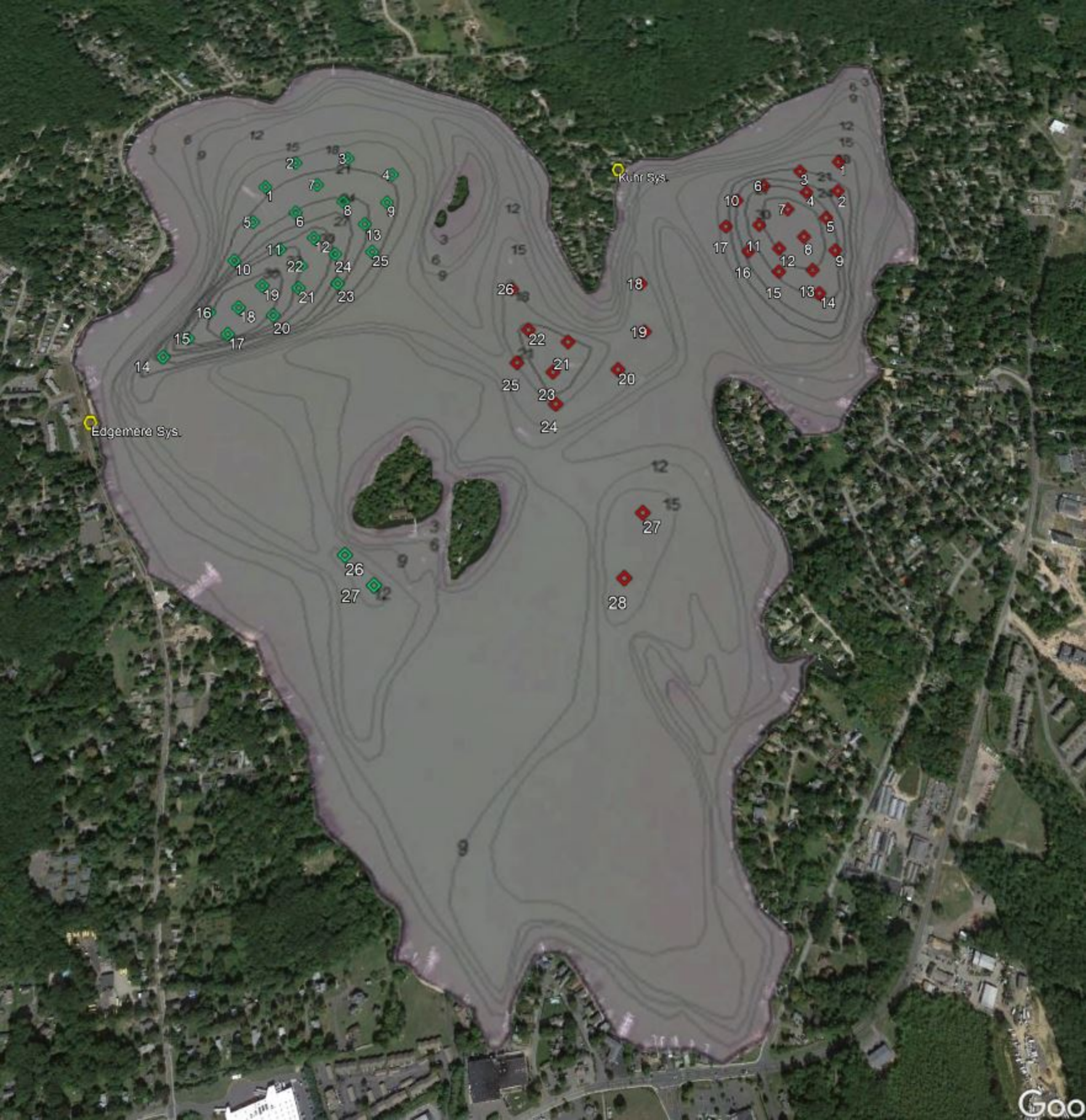
A complete application shall consist of an application, fees, maps /plans(A-2 survey) ,engineers report including drainage calculations and watershed calculations(pre and post), bond estimates, hydrology report, environmental studies, waiver requests and traffic study where applicable

Preliminary discussions are highly recommended for subdivisions 5 lots & over and for larger Special Permit Applications
Abutters notice receipts (green cards) must be handed in to the Planning Office prior to the meeting

APPLICANTS SIGNATURE _____ **DATE** _____

OWNER'S SIGNATURE _____ **DATE** _____

The owner and applicant hereby grant the East Hampton Planning and Zoning Commission and/or it's agents permission to enter upon the property to which the application is requested for the purpose of inspection and enforcement of the Zoning Regulations and Subdivision Regulations of the Town of East Hampton.



Edgemere Sys.

Kuhn Sys.



EverBlue Lakes EBC-300 Aeration System Installation/Construction Process

General

- Target completion time-line is two weeks from arrival of equipment to project site.
- Best practice is to have the Electrical Installed prior to arrival of Compressors, Airline and Diffusers.

Electrical Installation

Electrical Installation for the EverBlue EBC-300 Aeration System typically consists of the following activities:

- Confirmation that the Transformer in proximity to the installation site can support an additional 200 Amp Single Phase Service. Upgrade/addition of transformer at the pole if needed.
- Meter and socket can be installed at pole or integrated into the “H” Frame provided by EverBlue Lakes.
- Trenching or underground boring of the electric service to the compressor location.
- Installation of the “H” Frame supplied by EverBlue Lakes by a licensed Electrical Contractor who installs according to local code. Typically, the 3” Rigid Conduit is driven 4’ into the ground and a concrete or similar material is used to hold it in place.
- Wiring to breaker box, VFD unit, 110-volt service outlet completed by Electrical Contractor.
- Wiring to Compressor completed by Electrical Contractor.
- Programming of VFD completed by EverBlue Lakes.
- Start-up Process completed by EverBlue Lakes.

EBC-300 Compressor Station Installation

- A small Skid Steer will be used to create a maximum 14-foot x14-foot level area at each of the two Compressor Stations. We anticipate minimal excavation of this area and will select and adjust each compressor site to require as minimal excavation as possible.
- Any removed material will be spread and utilized on-site.
- A 10-foot x 9-foot landscaped pad will be constructed using landscape timbers or other preferred material, landscape weed barrier and up to 3 inches of river stone will be added as top fill over the weed barrier. Not more than .8 cubic yards of stone will be applied per Compressor Station.
- The remaining area within the 14-foot x 14-foot fenced in area weed barrier can be installed with mulch or river rock applied over the weed barrier as preferred. Generally, using river rock in this area reduces maintenance.
- Six 16-inch diameter by 6-inch thick concrete footer blocks will be set and placed under each of six legs of the compressor unit.
- The Skid Steer will be used to move the compressor into place.

- Post holes for a 12-foot x 12-foot perimeter fence will be dug, and a fence will be constructed of out of wood selected. Fence posts will be set in quick-set concrete.
- Once completed, any disturbance of soil or vegetation around the Compressor Station will be restored. Appropriate erosion control measures, such as straw matting and reseeded and/or silt fencing, will be taken as needed during and after construction. It will remain in place until vegetation is re-established.
- Site will be seeded and/or planted as needed to restore native vegetation as soon as possible.

Manifold Stations

- Directional boring or trenching of the main airline to the Manifold Stations will be done from the Compressor Station Locations to the location of the manifold box at the shoreline. For distances less than 50 feet, trenching is typically the preferred method. Trench will be dug using a small excavator, ditch witch trencher or hand dug as needed.
- A maximum 7-foot x 7-foot landscape pads will be prepared at the shoreline for the manifold box. A border of landscape timbers or other preferred material will be installed and weed barrier and up to a 3-inch layer of natural river stone or other preferred material will be used as top cover over the weed barrier. Less than .6 cubic yards of stone will be used for each Manifold Station. Silt fencing will be used during and after the trenching process until vegetation is re-established.
- Airlines will be connected to the manifold in the manifold box and run into the lake. The lines will be buried at the shoreline or similarly protected with existing rock/riprap. Silt fence will be used throughout the installation.

Airlines and Diffusers

- Airline will be run by specialized boat and crew that enables the “unrolling” of the lines in 500-foot reels at the surface of the lake. As the line is fed off the back of the boat it sinks to the bottom. Every 500-feet the next roll is spliced to the previous roll using a brass hose coupler and 100% stainless steel hose clamps.
- Diffuser locations are mapped using a GPS/Sonar Depth Finder marking system prior to installation of the lines. Each diffuser site is also marked with a temporary physical buoy so that the spacing and placement can be visually checked and confirmed prior to installation. The marking is typically completed the day before diffuser installation begins.
- During installation this same system is used to guide the boat to the designated diffuser location for each diffuser. The physical buoy is used as a cross-check. Once at the diffuser location, a diffuser is attached to the end of the airline using a stainless-steel hose clamp. A drop line is fed through the center I-ring of the diffuser and the diffuser is slowly lowered into place at the designated location. Once on the bottom, the drop line is used to set the diffuser properly to ensure it is flat on the lake-bottom. One end of the drop line is then released, and the drop line is retrieved back into the boat. Once the diffuser is placed, the temporary buoy is removed from the lake.

- The specialized installation boat is equipped to carry multiple rolls of airline with a draft of less than 18-inches. This allows the boat to maneuver close to shore without disturbing the lake-bottom. A shore-based crew member assists in making a hand-off of each line so that the boat can remain 20 to 25 feet from shore at the start of each run.
- The lines will be run straight out for 100 to 200 feet from the point on shore where they enter the water. This keeps the lines in a “bundle” for the first 100 – 200 feet. Once all lines are run for a system, we will use the crew and boat to complete the assembly of the lines into a bundle and secure the bundle with rope approximately every 20 feet.

Figure 5: Airline Bundling

Airlines Bundled From Shore



Once bundling is complete, the bundled lines will be buried by hand for as far as possible into the lake. Typically, the lines can be buried until water depth is 4 – 5 feet. On most installations, this allows us to bury the lines 25 – 50 feet from shore.

Lake Pocotopaug Aeration Project Aeration System Enclosure Specifications

General

EverBlue Lakes will construct custom built equipment enclosure for the purpose of housing the Lake Aeration Compressor Systems for the Lake Pocotopaug Aeration Project. The purpose of the enclosure is as follows:

- Create a sound reducing weatherproof enclosure to protect the Aeration Compressor, Variable Frequency Drive Unit and Electrical Panel and wiring required for the system.
- Construct an enclosure that fits with the Residential Character of the area around the lake.

The enclosures are designed as wood construction enclosures with a peaked roof with the top of the peak 8.5' tall with 6' walls. Standard dimension of the enclosure is 8'x8', however, the enclosure located on 60 Spellman Drive may be expanded to 10'x16' per property owner request.

This document will provide details for the construction of the "base" 8'x 8' enclosure with an additional detail on the planned modifications for the larger enclosure for the 60 Spellman Point Enclosure at the end of the document.

Foundation/ Base Construction

- The enclosure site shall be excavated as needed to create a level area approximately 12'x 12' for an 8'x 8' Enclosure. (see diagrams)
- A 12" base of ¾" Processed Gravel will be laid down in the leveled area.
- Landscape timbers will be used to create a border to contain the base layer Processed Gravel. The height of this structure will vary depending on the need for a retaining wall. For example, the Edgemere site will require approximately a 2-foot retaining wall on the road-side of the structure.
- The floor will be constructed using 2"x 6" T&G Treated floor joists. A 14" diameter by 6" thick concrete deck footer will be used on each corner of the structure. 2 Layers of T&G treated ¾" plywood will be used for the flooring with 1" sound batting installed between the two layers.
- Tiedown anchors will be used on each corner to secure the structure to the ground.

Wall Construction

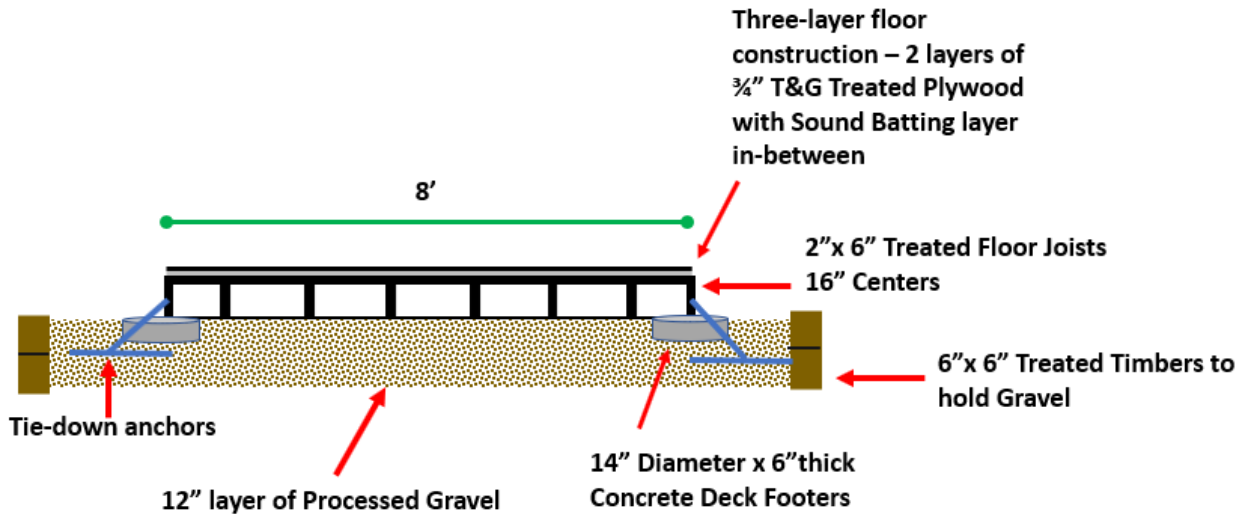
- Structure walls will be constructed using 2"x 6" Studs at 16" centers. (See diagram)
- Six inches of blown foam insulation will be applied and trimmed to studs.

- Exterior walls will be constructed using T-1-11 Siding which can be painted or stained to match existing structures and character of the respective neighborhoods.
- Interior walls will be ¾” plywood fastened to studs. Additional “egg carton” sound panels will be used if necessary, to achieve noise level targets for the systems.
- 1”x 6” Cedar Trim will be used on exterior finishes.

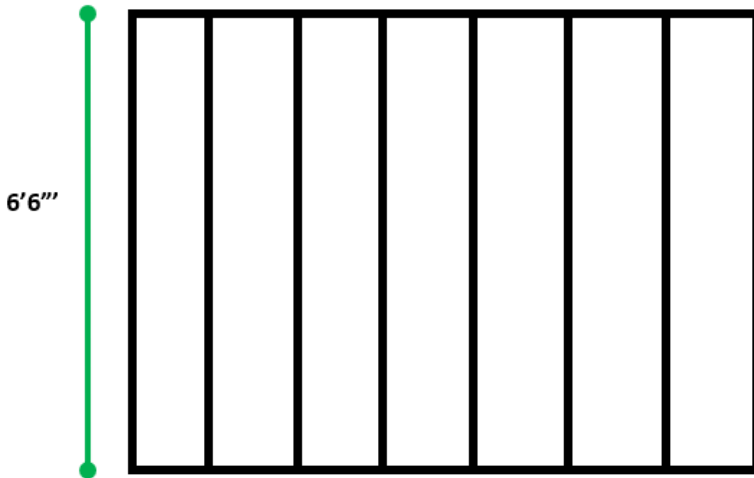
Door Wall and Ceiling/Roof Construction

- Walls and trim same as above.
- Two 28” doors will be constructed creating a 56” opening for installing and maintaining equipment. Doors will be constructed, and sound insulated the same as the walls of the structure.
- 2”x 6” ceiling joists will be used to create a pitched roof. 6” fiberglass insulation and vents will be installed. (see diagram)
- 7/16” OSB roof decking will be used for exterior roof with either a steel or shingled roof as preferred.
- ¾” plywood will be used for interior ceiling and “egg carton” sound panels will be used if needed to achieve sound targets.

Base & Floor Construction Section View

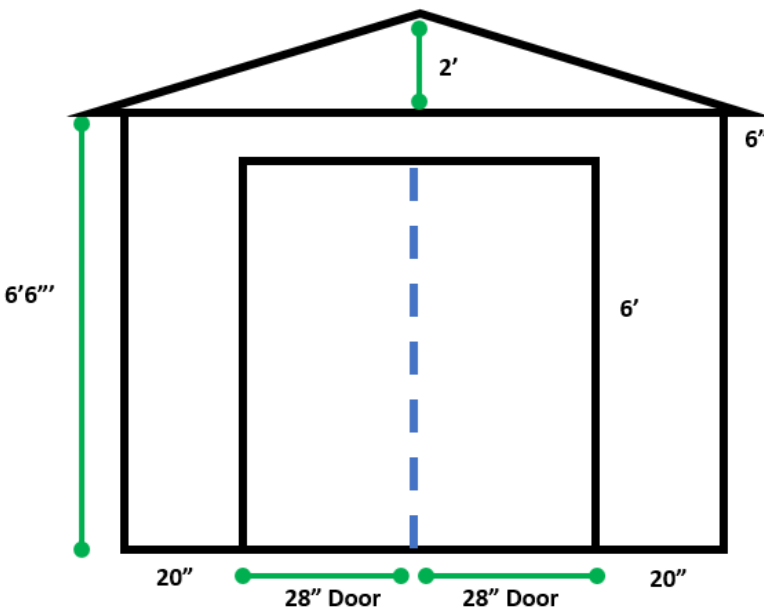


Wall Construction
2 Side Walls 1 Back Wall



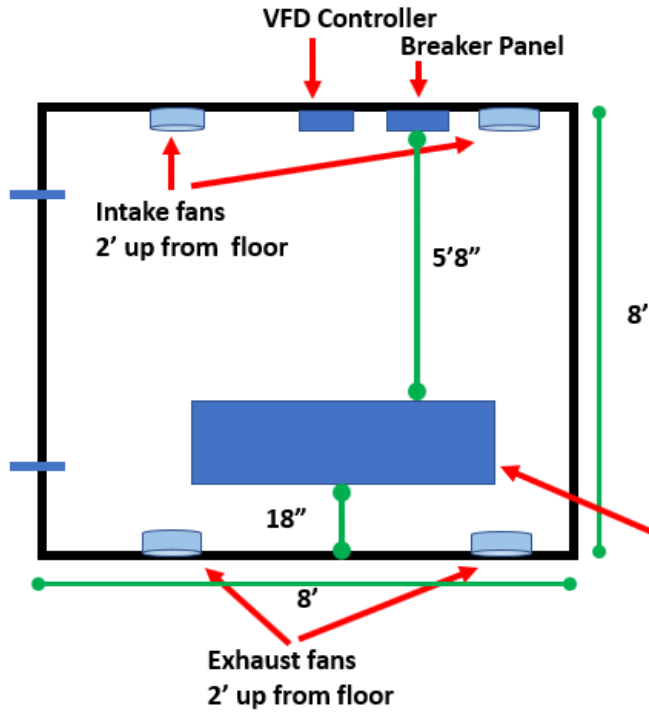
- 2"x6" Wall Studs spaced at 16" Centers
- 6" Foam blown Insulation
- T-1-11 exterior Wall
- 3/4" Plywood Interior Walls fastened to studs
- 1"x 6" Cedar Trim on exterior Walls

Door Wall and Roof



- 2"x6" Wall Studs spaced at 16" Centers
- 6" Foam blown Insulation
- T-1-11 exterior Wall
- Sound Board Interior Walls fastened to studs
- 1"x 6" Cedar Trim on exterior Walls
- 28" Double Doors. Doors will sound proofed same as walls.
- 2"x6" Ceiling joists 16" Centers with 6" fiberglass insulation and vents.
- 7/16" OSB Roof Decking
- Ceiling will be 3/4" plywood fastened to Joists.

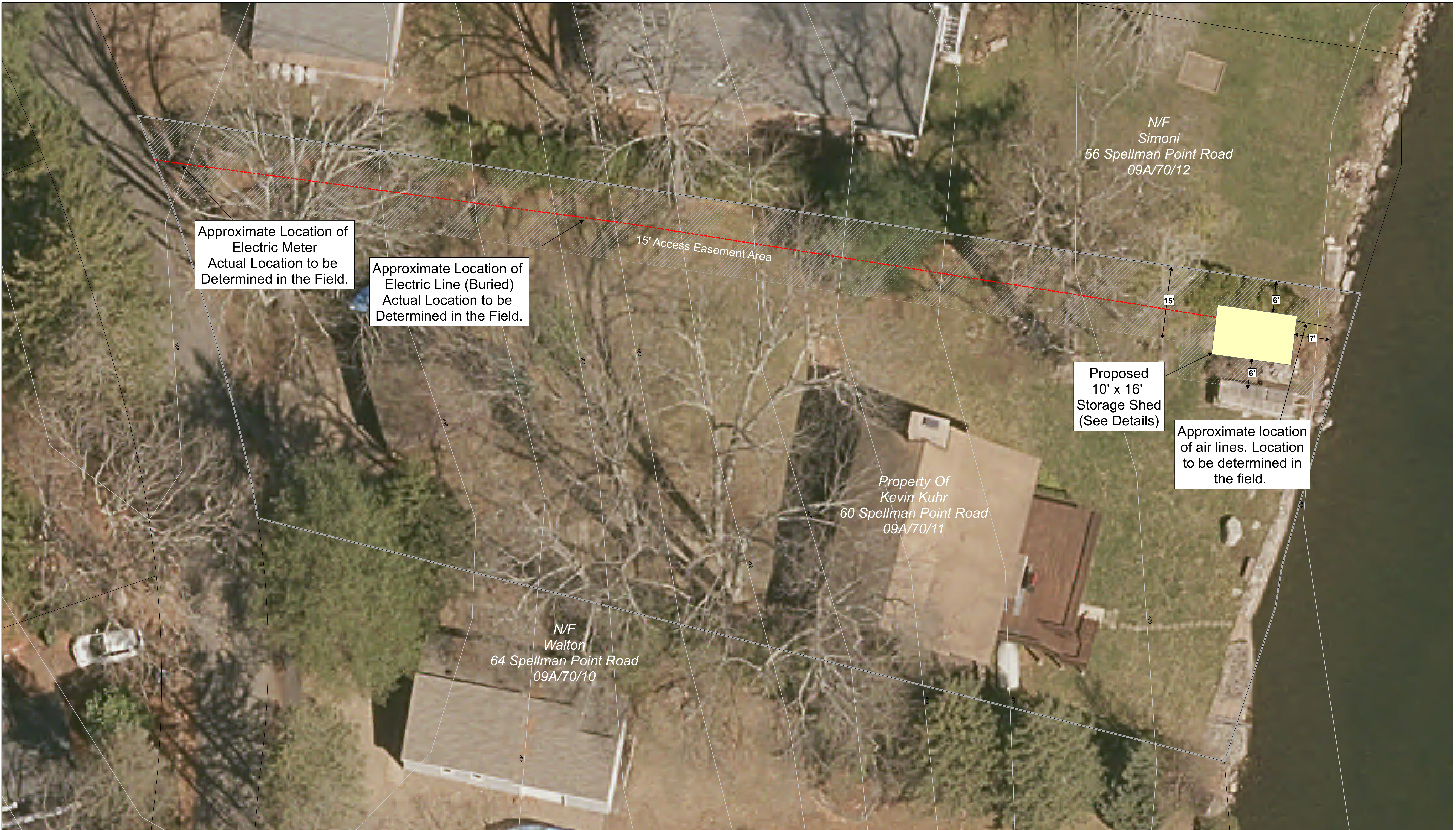
Equipment Layout Plan View



- Location of Intake and Exhaust may be adjusted at each site to optimize sound reduction performance.
- All fans will be ducted and fitted with Sound Mufflers
- One Exhaust and one intake fan will run continuously and one each will be activated by thermostat

Compressor

Lake Aeration Compressor Easement - 60 Spellman's Point



Approximate Location of Electric Meter
Actual Location to be Determined in the Field.

Approximate Location of Electric Line (Buried)
Actual Location to be Determined in the Field.

15' Access Easement Area

N/F
Simoni
56 Spellman Point Road
09A/70/12

Proposed
10' x 16'
Storage Shed
(See Details)

Approximate location
of air lines. Location
to be determined in
the field.

Property Of
Kevin Kuhr
60 Spellman Point Road
09A/70/11

N/F
Walton
64 Spellman Point Road
09A/70/10



This map has been produced by the Town of East Hampton for the purpose of depicting the location of the easement. It is not a class A-2 survey and was not prepared by a licensed Land Surveyor. The scale is accurate, but the property lines have not been located. Actual easement area and location of shed must be located in the field. Property lines are taken from the GIS map produced by Tighe and Bond. Topography data is taken from the State of Connecticut.

Map Created: April 21, 2020
Drawing By: JDD

