



TOWN OF ESSEX CERTIFICATE OF OCCUPANCY APPLICATION

DATE OF REQUEST: 2-17-15 FEE: \$85.00 pd (includes recording)

MAP/PARCEL/LOT: 2-014-034-002 NO. 2014-164

The undersigned herewith requests an inspection of the premises and the issuance of "Certificate of Occupancy" of premises, or portion thereof, for use or habitation.

This request is for use only of existing land or buildings.

This request is for new construction or rehabilitated or altered structure which was done under authority of zoning permit # 2014-164

issued to Ralph, Robert and Dennis W Matthews (Est) on 10-7-14

Premises are at 313 Old Stage Road

Water service installation inspected and approved by TDH Engineering

Driveway location inspected and approved by P.W. see conditions for shared driveway on permit for 319 Old Stage Rd.

Sanitary sewer connection or septic system inspected and approved by:

Name: Jeff Hardy, TDH Date: 2-13-15 (see attached letter)

Construction was begun 10-30, 2014 and completed 2-20, 2015

Approval granted by P.C. or Z.B.A. on 7/24, 2014 (reference approval # PC: 2014-24)

Use of premises intended Residential 2 bdrm, 1 1/2 3-car garage, open porch, deck, unfinished basement
(type of use)

Applicant's Signature: [Signature] Telephone: _____ Cell: 777-5535 (Amy's)

By issuance of this Occupancy Permit, the Town of Essex Zoning Administrator hereby acknowledges that the use and/or building construction is in complete conformity with the Zoning Regulations, unless otherwise noted. Field measurements and similar dimensions for setbacks are based in part on evidence supplied by owner. The Town of Essex is not liable for errors or mistakes when it is found that information submitted by the applicant is erroneous or inaccurate.

Certificate of Occupancy has been approved with without _____ conditions.
If with conditions, see attachment outlining same. Other side.

Certificate of Occupancy denied _____. Please see attachment with reasons for denial.

2-19-15 Sharon L. Kelly
Date Zoning Administrator

OVER →



P.O. Box 8, St. Albans, VT 05478

Phone: 802-524-4460

February 13, 2015

Drinking Water & Groundwater Protection Division
Dolores Eckert, Assistant Regional Engineer
111 West Street
Essex Junction, Vermont 05452

RE: WW-4-4293-R Lot 2

Dear Dolores:

This letter is in response to conditions of the Water Supply and Wastewater Disposal permits WW-4-4293 issued on September 22, 2014. We observed the construction of the shared wastewater disposal system and individual drilled well for Lot 2 during October 2014 thru February 2015.

Listed below is a summary of our observations:

1. The contractor was Corey Excavating.
2. TDH Surveying and Design, LLC staked out the location of the wastewater system prior to construction and went over the approved plans with the contractor.
3. The area was properly plowed prior to the installation of mound sand.
4. The precast concrete septic tank was installed with access to the surface and appeared to be set level. The effluent filter was installed.
5. The precast concrete pump station was installed and appeared to be set level. The vent and odor control device were installed and operating properly.
6. The pump station was tested and it operated as designed.
7. A forcemain pressure test was performed with no measurable leakage.
8. The 4" PVC sanitary sewer line was installed in general conformance with the approved plans.
9. The 2" PVC forcemain was installed according to the approved plans and stubbed for a future connection to Lot 1.
10. The laterals were placed in the trench and appeared to be set level.
11. Flushing valves were installed at the end of each lateral with risers to the surface.
12. A squirt test was performed on the system and a squirt height in excess of the 4.0' was observed at the orifices.
13. The orifices were sized & spaced per the approved plans and were equipped with orifice shields.
14. Styrofoam insulation was placed over the distribution manifold to aid in the prevention of freezing.
15. Final grading and seeding of the area was completed.

Certification Letter-WW-4-4293-R Lot 2

16. The drilled well was installed in general conformance with the approved plans and connected to the dwelling.

The following are recommendations for the homeowner to aid in the proper operation of the disposal system.

1. Per Permit Condition 3.5 the wastewater system is to be visually inspected and a report of the findings is to be submitted to the Drinking Water and Groundwater Protection Division for the first three years of operation. This condition will take effect once the dwelling is built and connected on Lot 1.
2. The septic tank should be inspected annually pumped out every 3-5 years dependent on sludge and scum levels found during inspection.
3. The effluent-filter should be cleaned annually (preferably twice a year) during the inspection of the septic tank. This involves removing the filter and rinsing it off with a garden hose, (letting and debris and water fall back into the septic tank).
4. Other deficiencies may exist to this office as we could not be onsite at all times during construction.

Based on the above observations the system was installed in general conformance with the approved plans. This does not relieve the contractor of minor adjustments that may be needed during the initial startup of the system, nor does it relieve the owner of proper use and maintenance. This letter is not intended to imply any type of warranty or guarantee from the licensed designer since both the use and maintenance are beyond our control. However, given the good workmanship of Corey Excavating, we are not anticipating any problems.

Wastewater & Potable Water Certification Statement:

"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply and wastewater system were installed in accordance with the permitted design and all the permit conditions, were inspected, were properly tested, and have successfully met those performance tests."

Very truly yours,

TDH SURVEYING & DESIGN, LLC



Jeffrey M. Hardy
Licensed Designer #449

Cc. Bourbeau Custom Homes

S:\JOB DATA\2013\13071 Bourbeau Properties\Docs\13071 WW Cert Lot 2.docx

COPY. recorded in 1490 1495

2011 Vermont Residential Building Energy Standards (RBES) Certificate

This certificate is for projects started on or after October 1, 2011.
Before completing this form, refer to the instructions in Section 7.2a of the Residential Energy Code Handbook (3rd edition).
For additions, alterations, renovations or repairs, only fill out applicable portions of certificate.

313 Old Stage Rd Essex Act 250 Permit # NA
Property Address (Street, City, ZIP Code)
VT Electric Coop 10-25-15 2-23-15
Electric Utility serving this address Construction START Date Construction FINISH Date
1 1 1490 3
Units # Stories # Conditioned Sq. Ft. # Bedrooms

Project Description
 Single Family Renovation / Alteration
 Multi-family Addition
 Log Home Repair

Foundation Type: Basement Slab On Grade Crawl Space

Thermal Envelope
R-21 Basement / Crawl Space Walls 8' Basement Insulation Depth (ft) U-0.3 Basement Windows NFRC Default
R-NA Unheated Slab R-NA Floors over Unheated Spaces R-39 Sloped Ceilings 300 Area (Sq. Ft.)
R-14 Heated Slab R-21 Above-Grade Walls R-49 Flat Ceilings 1190 Area (Sq. Ft.)
R-21 Perimeter Slab Edge U-17 Doors NFRC Default U-NA Skylights NFRC Default
U-0.3 Windows NFRC Default R-49 Attic Access Hatch / Door

Air Sealing Verified by: Testing ACH50 CFM50 Visual Inspection

Ventilation System Exhaust Balanced Air Flow 240 CFM Rated Measured

Mechanical System Calculation Method: ACCA Manual J 8th Edition Other _____
Primary Heating System Size (Btuh) 84,000 Primary Central Cooling System Size (Btuh) _____ NA
Calculated Heat Loss (Btuh) 49,240 Calculated Heat Gain (Btuh) NA Programmable Thermostat
AFUE or HSPF Efficiency 91.2 SEER or COP Efficiency NA Heat Pump Supplementary Heat Control

Ducts NA Ducts located within conditioned space
R- _____ Supply Ducts _____ Location _____ Duct Tightness (CFM @ 25 Pa.)
R- _____ Return Ducts _____ Location _____ Test Performed at Rough-in Post-construction

Combustion Safety Spillage testing conducted on combustion equipment not directly-vented
 Fireplaces have gasketed doors with compression closure
 Exterior air supply requirements met for solid fuel-burning appliances and fireplaces

Other Mechanical System Piping, R-3 Accessible on-off switches for pool heaters
 Circulating service hot water piping, R-3 Automatic time switches for pool heaters
 Automatic or Gravity dampers Pool cover for all heated pools
 Automatic controls for snow-melt systems 50% of lamps in permanently installed fixtures are high efficiency

Compliance Method Used Fast Track Package # 1 REScheck Software Maximum UA _____ Your UA _____
 Home Energy Rating Rating Score _____ Rated by _____

I certify to Michael and Amy Akerling (Owner) that the above information is correct and that the premises listed HAVE been constructed in accordance with the Vermont Residential Building Standards (RBES) created under 21 V.S.A. § 266.

Signature: Denis Bourbeau Print Name: Denis Bourbeau
President

Company: Bourbeau Custom Homes, Inc. Phone: 802-527-0244 Date: 2-16-15

21 V.S.A. § 266 requires this certificate label to be permanently affixed to the inside electrical service panel or heating or cooling equipment or nearby in a visible location. Copies also must be provided within 30 days following the sale of the property, to 1) the Dept. of Public Service, Planning & Energy Resources Division, 112 State St., Montpelier, VT 05602, and 2) the town clerk of the town where the property is located. NOTE: Noncompliance with RBES may result in action for damages under 21 V.S.A. § 266. This label does not specify all 2011 RBES requirements. QUESTIONS? CALL THE VT DEPARTMENT OF PUBLIC SERVICE: 802-828-2811.