



barrett architecture

FRANK J. BARRETT, JR., A.I.A.

July 12, 2019

Goddard Block Limited Partnership
P. O. Box 823
New Hampton, NH 03256

Re: Request for Waiver of PUC 303.02
To Master Meter Goddard Block Limited Partnership
Located at 54 – 64 Pleasant Street
Claremont, NH

To Whom it May Concern,

The extensive and full revitalization of the Goddard Block is designed to receive NGBS Gold Certification. The National Green Building Standard Gold Certification goes well beyond just saying that a building is energy efficient. More importantly, it is a standard that certifies that a building is designed and built to achieve high performance in six (6) key areas: Site Design; Resource Efficiency; Water Efficiency; Energy Efficiency; Indoor Environmental Quality; and building Operation & Maintenance. A new green multi-family building can be awarded a Bronze, Silver, Gold, or Emerald certification level, depending on the number of green practices successfully incorporated in its design and construction.

Additionally, we will achieve a HERS Score between 50 and 55, meaning that the building is 45 to 55 percent more energy efficient than the department of Energy’s model modern home. Such a HERS score will entitle the project to receive EnergyStar Homes 3.1 Certification.

The following measures are planned to be incorporated into the above referenced project:

- The building’s thermal envelope will exceed the requirements of ICC 2009 International Energy Conservation Code, as follows:

Code Requirement	Provided
Wood Framed Wall: R-20.	R-21 Blown-in blanket plus R-9 continuous exterior insulation.
Foundation Perimeter: R-10.	R-15.
Ceiling: R-38.	R-49 continuous at the roof.

- All windows will be low-e argon filled glass with a U-Value of 0.27 or better and be EnergyStar rated.
- Apartment and common area space heating and cooling will be provided by high efficiency condensing furnaces with an efficiency of greater then or equal to 93 percent.

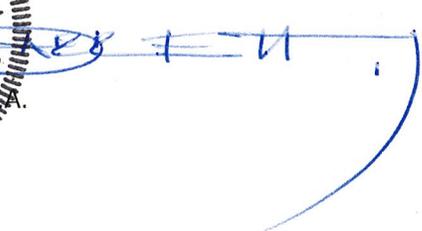
POST OFFICE BOX 55 ■ 215 GATES-BRIGGS BUILDING
WHITE RIVER JUNCTION, VERMONT 05001

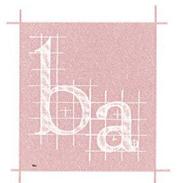
TELEPHONE: (802) 296-0004 ■ FACSIMILE: (802) 296-0005 ■ E-MAIL: FRANK.J.BARRETT@MYFAIRPOINT.NET

- All appliances with an equivalent EnergyStar label will be used.
- EnergyStar LED lighting fixtures will be specified.
- Water conserving fixtures are to be utilized in all bathroom, kitchen, and lavatory locations. This will reduce the load of the gas fired domestic hot water heaters. The heaters have a thermal efficiency of up to 98 percent.

Fixture	Flow Less Than
Toilet	1.27 gal/min
Showerhead	1.5 gal/min
Lavatory and Bath Faucets	1.0 gal/min
Kitchen Faucets	1.5 gal/min

Please refer to contact this office should you have any questions concerning this matter.

Sincerely,

FRANK J. BARRETT, JR.
No. 1581
Frank J. Barrett, Jr.
Architect
THE STATE OF NEW HAMPSHIRE
LICENSED ARCHITECT



Mr. Kevin Lacasse
260 Rt 104
New Hampton, NH 03256

Re: Goddard Block Renovation

Dear Mr. Lacasse:

Re: Energy Efficiency

Dear Sirs:

The Goddard Block project located at 54-64 is designed to receive NGBS Gold Certification, The National Green Building Standard" Gold Certification goes well beyond saying a building is energy efficient; is a standard that an apartment building is designed and built to achieve high performance in six key areas: Site Design, Resource Efficiency, Water Efficiency, Energy Efficiency, Indoor Environmental Quality, and Building Operation & Maintenance. The goal is not only to achieve the NGBS Gold but each apartment to achieve Energy Star 3.1 or possible Net Zero ready. A new or retro fitted green multifamily building can be awarded a Bronze, Silver, Gold, or Emerald certification level, depending on the number of green practices successfully incorporated in its design and construction.

Additionally, we will achieve a HERS Score between 50 and 55, meaning the building is 45% to 50% more energy efficient than the Department of Emerges model modern home. Such a HERS score will entitle the project to receive EnergyStar Homes 3.1 Certification.

the following measures are planned for the above referenced project:

- The buildings thermal envelope will exceed the requirements of ICC 2009 International Energy Conservation Code.

- a Solar Array is also in the planning phase. Its feasibility (given the tight overall construction budget) is still being worked out, however, the prep work has

been done which includes conduit runs from the rooftop to the electric room.

Code Requirement

Concrete, Block and Wood Frame Walls
— R-21

Roof / Ceiling— R38

Windows U-.35

-

Provided

R-49 Continuous above roof

R-21 Blown-in

All windows will be low-e argon filled glass with a U-Value of 0.27 and be EnergyStar rated.

- Apartment space heating and cooling will be provided by high efficiency condensing Boilers with an efficiency of greater than or equal to 94%.
- Common space heating and cooling will be provided by high efficiency condensing furnaces with an efficiency of greater than or equal to 93%. Supplemental heat is not required.
- In order to provide healthy indoor air quality. The kitchens and Bathroom will be provided with separate EnergyStar labeled fans. Kitchen will be 100 cfm. Bath Fans will be 50 cfm.
- All appliances with an available EnergyStar label will be utilized.
- EnergyStar LED lighting fixtures will be specified.
- Water conserving fixtures are to be utilized in all bathroom, kitchen and lavatory locations. This will reduce the load of the gas fired domestic hot water heaters. The heaters have a thermal efficiency of up to 98%.

<u>Fixture</u>	<u>Flow Less Than</u>
Toilet	1.27 gal/min
Showerhead	1.5 gal/min
Lav/Bath Faucets	1.0 gal/min
Kitchen Faucets	1.5 gal/min

Respectfully submitted,

Bob Tortorice
NGBS / HERS Certified Rater
Building Alternatives Inc