

Royalston Historic District Commission

Royalston, Massachusetts, 01368

Application for Certificate

Applicant Name(s) DANIEL SCHODEK
Address of Property 1 FRYE HILL ROAD
Owner's Name DANIEL + ELIZABETH KAY SCHODEK
Address of Owner: Street 44 WINTHROP ST
City, State, Zip WINCHESTER MA Phone: 781 721 1207

Instructions: Please check the type of certificate you are applying for below. Then provide precise details of changes. A sketch including dimensions, measurements, exact colors, materials, etc. must be included. Attach any additional documents. Only one change request per application. Return four copies of the completed application to a commission member (one set will be returned to you). If you have any questions, please contact a Commission member (current member list available from Town Clerk).

Please check the certificate applied for:

☒ Appropriateness

☐ Non-Applicability

☐ Hardship

Description of changes (attach additional sheets and exhibits if necessary):

SEE ATTACHED

Daniel Schodek
Signature

For Office Use Only

Date Received 8-21-08

Date Accepted 8-21-08

☒ Public Hearing

☒ Abutter notices

PJK

Cert 9-2-2008

Attachment 1:

DESCRIPTION OF WORK

PROPOSED DORMER ADDITION

The primary work to be done consists of adding a dormer and two solar panels to an existing West-facing roof. The work is centered on the back of the workshop addition to the primary house. (See Attachment 2 for images of the existing house and workshop as seen from Frye Hill Road). The upper floor of this structure is being renovated to accommodate a painting studio and the dormer will provide needed natural light.

The dormer is to be located on the back side of the workshop addition on the opposite side from Frye Hill Road (the back side – see Attachment 3A and 3B). It will not be visible at all directly from the front of the house from Frye Hill Road. The top part of the dormer will be marginally visible from an angle from Frye Hill Road from the Northeast near the northern property corner. See Attachment 4 for an approximate view from this direction.

The specific design is shown in Attachment 5. It is designed to architecturally conform to the existing Greek Revival house. Details (trim, fascia, clapboards) and roof materials will match that on the existing house as much as possible. The width of the dormer is to align to the existing workshop door opening below (see Attachment 5).

Materials:

Siding – wood clapboard to match existing house (painted white)

Facias – 1X6 wood

Trim – Greek Revival

Side lights – wood/glass to match existing side lights on front

Inward swinging double door with glass inserts (wood frame, painted white)

Roofing – “Architectural Shingles” (asphalt based)

to match existing roofing (black/gray)

SOLAR UNITS:

The size and details of the panels are tentative but based on manufacturer's literature and discussions (currently with AltE from Worcester – See Attachment 6). They have still to be exactly engineered, but presumably will have the approximate sizes shown, an aluminum edge frame painted black and a dark solar surface (see Attachment 6 for estimated sizes). Solar panels will sit within 3 inches off of the surface.

Attachment 1

General Images of House



1 Frye Hill Road

Workshop addition on right



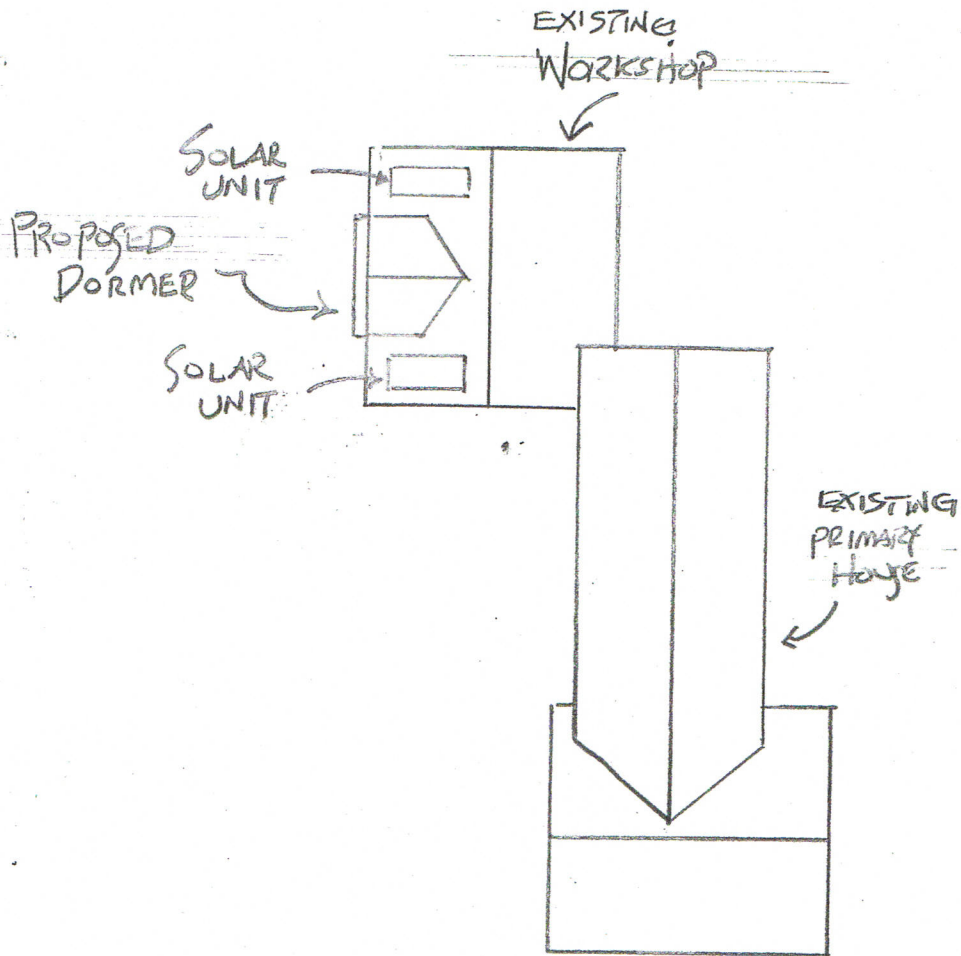
Front Door



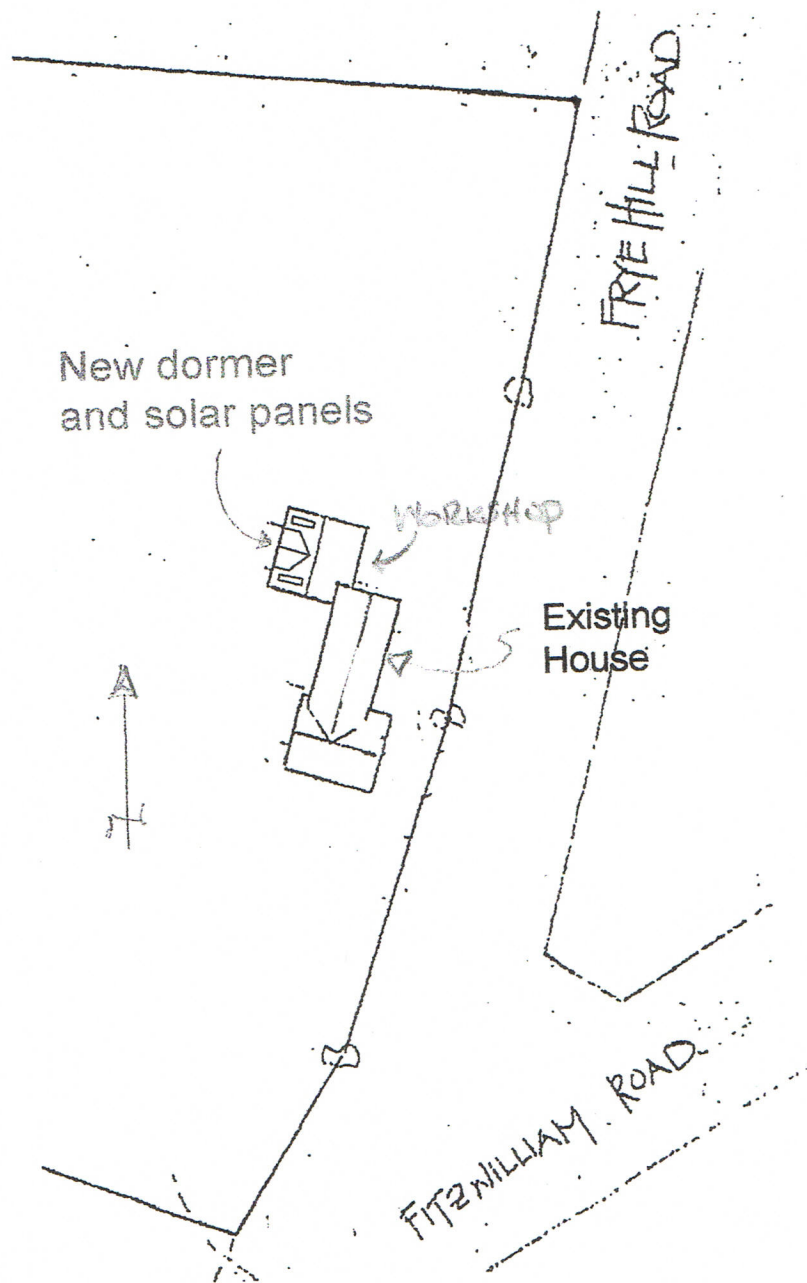
Workshop addition

ATTACHMENT 3A

PLOT PLAN



ATTACHMENT 3B



ATTACHMENT 4

Current view from NE corner of property on Frye Hill Road



With Dormer Addition (Approximated)

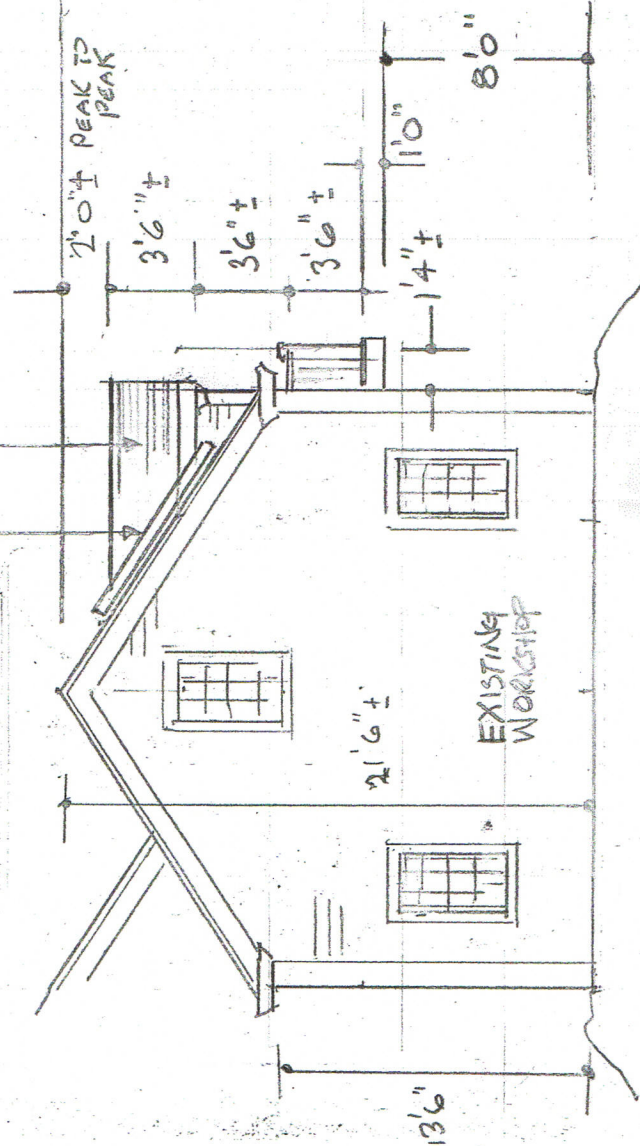


ATTACHMENT 5

1 Frye Hill Road, Royalston
Dan & Kay Schodek

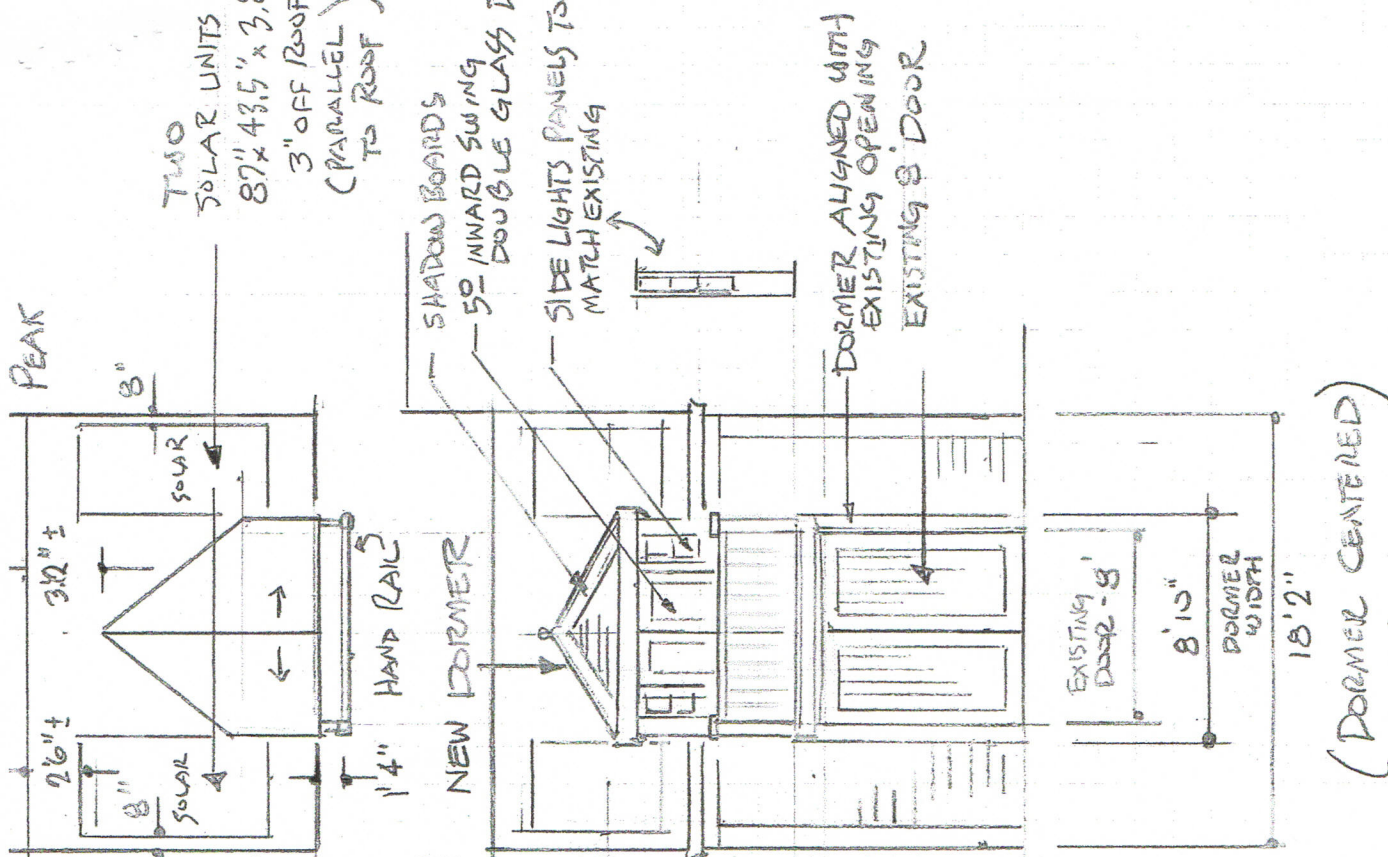
"ARCHITECTURAL SHINGLES ON NEW DORMER
TO MATCH EXISTING ROOF SHINGLES"

SOLAR UNIT




EXISTING WORKSHOP

- MATERIALS:**
- Siding -- wood clapboard to match existing house (painted white)
 - Fascias -- 1x8 wood
 - Trim -- Greek revival
 - Side lights -- wood/glass to match existing side lights on front
 - Doors -- inward swinging with glass insert (wood frame, painted white)
 - Roofing -- "Architectural Shingles" (asphalt based)
 - To match existing roofing (black/gray)
 - Solar panels -- Not yet engineered, but presumably aluminum edges painted black with dark surface

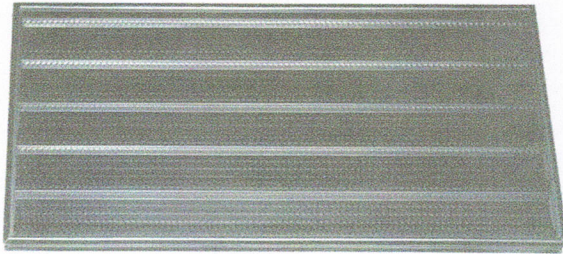


(DORMER CENTERED)

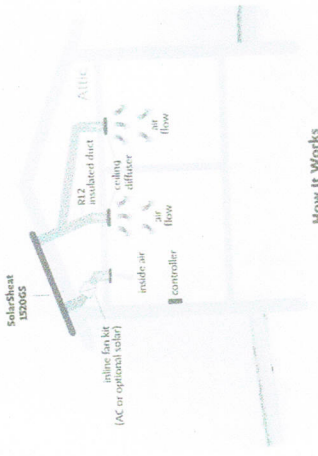
Attachment 6 Current Solar Heating Unit Design (Roof mounte parallel to roof surface)



SOLARSHEAT 1500GS

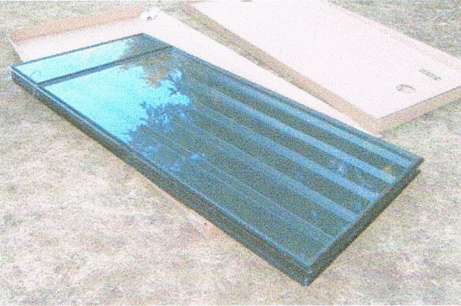


PART NO. SH1500 GS
ENERGY RATING 15 kWh
BTU 5118
DIMENSIONS 87" X 43 1/2" X 3 3/8"
GROSS AREA 26 ft² or 2.4 m²
WEIGHT 82 lbs / 37.2 kg
COLOUR Black
TYPE Modular solar air collector
MATERIAL Aluminum extrusion
GLAZED Yes, tempered glass
THERMAL INSULATION Polysocyanurate
FLOW RATE 150 CFM/panel
CO₂ REDUCTION 35 tonnes per year
TEMP 120°F or 49°C
MOUNTING Wall or roof
WARRANTY One year from date of purchase
MANUFACTURED IN Canada



How it Works

The diagram illustrates the installation and operation of the SolarSheat 1500GS unit. It shows the unit mounted on a roof, with air flow indicated by arrows. The unit is connected to a duct system that leads to a ceiling diffuser. The diagram also shows the unit's connection to a controller and a power source (AC or optional solar). The unit is labeled 'SolarSheat 1500GS' and the duct is labeled 'R12 insulated duct'. The ceiling diffuser is labeled 'ceiling diffuser'. The air flow is indicated by arrows labeled 'air flow'.



Typical unit on ground (manufacturer's literature)

AUG 30, 2008

TO: HTC, Raytheon
FROM: DAN SCHODER
1 FRYE HILL ROAD
Raytheon

ATTACHED IS AN APPLICATION
WITH CHANGES SUGGESTED AT
THE HTC MEETING.

A FEW IMAGES OF THE
SOLAR PANELS THAT WE
ANTICIPATE USING ARE ALSO
ATTACHED (DEPENDING ON
AVAILABILITY AT THE TIME
OF CONSTRUCTION).