



Mechanical Engineering for the Northeast



HARRIS CENTER  
HANCOCK, NH

COLDHAM ARCHITECTS LLC  
9,200 SQUARE FEET

The project is a 9,200 square foot, three-story office building with a full basement. The building contains administrative office space, several smaller meeting rooms, and a large octagonal meeting room. The project combines an excellent building envelope, a wood pellet boiler and energy-recovery ventilation to produce an extremely energy efficient building.

Heating is provided by one low mass oil fired boiler and an H.S. Tarn wood pellet boiler. Heating is distributed to the building by a direct return hydronic loop serving baseboard radiation, heating coils in the ventilation, and cabinet unit heaters.

Ventilation is provided by two enthalpy type energy recovery units that recover approximately 80% of the sensible and latent energy from the leaving exhaust air to preheat and humidify the incoming outside ventilation air. Air conditioning is provided for office areas by three small split system air conditioning units. The condensing units are located outside the building on a pad.

Two toilets are of the waterless, composting type. All fixtures and faucets have low water consumption per current federal standards. In addition, lavatory faucets meter water flow, delivering just one-quarter gallon of water per cycle. Non-metering faucets have flow restrictors and ceramic cartridges designed to deliver long life without dripping.

