Connecticut College Digital Commons @ Connecticut College

Architectural Studies Integrative Projects

Art History and Architectural Studies

1-1-2011

Historic Preservation and Sustainable Design

Lucy Frye Connecticut College, lucy.frye@conncoll.edu

Follow this and additional works at: http://digitalcommons.conncoll.edu/archstudintproj

Recommended Citation

Frye, Lucy, "Historic Preservation and Sustainable Design" (2011). *Architectural Studies Integrative Projects*. Paper 37. http://digitalcommons.conncoll.edu/archstudintproj/37

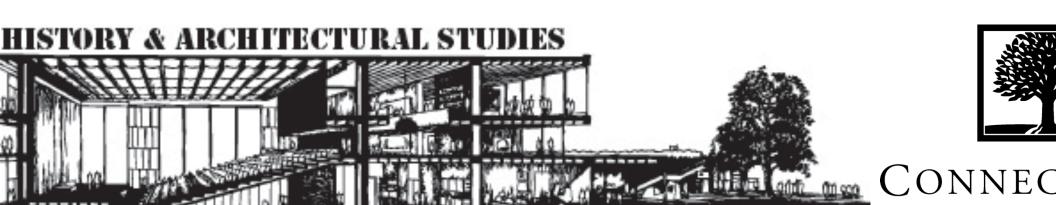
This Article is brought to you for free and open access by the Art History and Architectural Studies at Digital Commons @ Connecticut College. It has been accepted for inclusion in Architectural Studies Integrative Projects by an authorized administrator of Digital Commons @ Connecticut College. For more information, please contact bpancier@conncoll.edu.

The views expressed in this paper are solely those of the author.

LUCY FRYE

SENIOR INTEGRATIVE PROJECT: DEPENDENT STUDY, GOODWIN-NIERIN

ARCHITECTURAL STUDIES CONNECTICUT COLLEGE 2012



HISTORIC PRESERVATION AND SUSTAINABLE DESIGN



GOODWIN-NIERING CENTER FOR THE ENVIRONMENT SENIOR INTEGRATIVE PROJECT

Lucy Frye

WE WILL HAVE TORN DOWN AND REPLACED ONE THIRD OF THE CURRENT

NG STOCK IN THE U.S. - Brookings Institute Study 2008

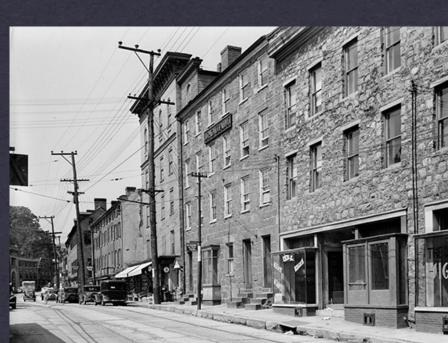
OINTS:

- e, Reuse, Recycle
- ast and future to equal standards
- c preservation and sustainable can be successfully integrated

NTATION OUTLINE:

ound Information

- hip
- Reservation
- on Farms Old House
- Barn Renovation





GRGROUND INFORMATION



THE GREENEST BUILDING IS THE ONE THAT IS ALREADY BUILT" - CARL ELEFANT

- Effects of Construction
- Value of the Past
- Cost and Upkeep of Properties

- Limited Precedence
- Cost
- Code Discrepancy











Ess

NTER & MacNEILLE ARCHITECTS AND BUILDERS

SUMN





MacNeille, AIA Terry Carpenter







LLII INESERVATION

ASHFIE

USTEES OF THE RESERVATIONS



),000 Project

D Gold

uce Energy By 50% - Zero Waste Renovation

nland Communities Initiative

- al Structural Improvements
- ow Replacement
- e Green Space
- Collection
- Solar Array
- ource Heat Pump
- Building Materials





L OLD HOUSE

APPLETON FARMS IPSWI

USTEES OF THE RESERVATIONS

17



50,000 Project

- D Gold Going For LEED Platinum
- rgy Usage of 55% Below Code Standards 90% Zero Waste
- leton Farms Center for Agriculture and the Environment

E OLD HOUSE MENOVATION

- al Structural Improvements
- ow Restoration
- ass Boiler
- Gallon Rain Catchment System
- / Solar Array
- Building Materials
- Panel 60 Gallon Solar Thermal System









- in 1889
- vated in 2006
- trial Style Building
-) Platinum Building
- Pre-1900 Platinum Building









SEX FALLS I ROLLEY DARN

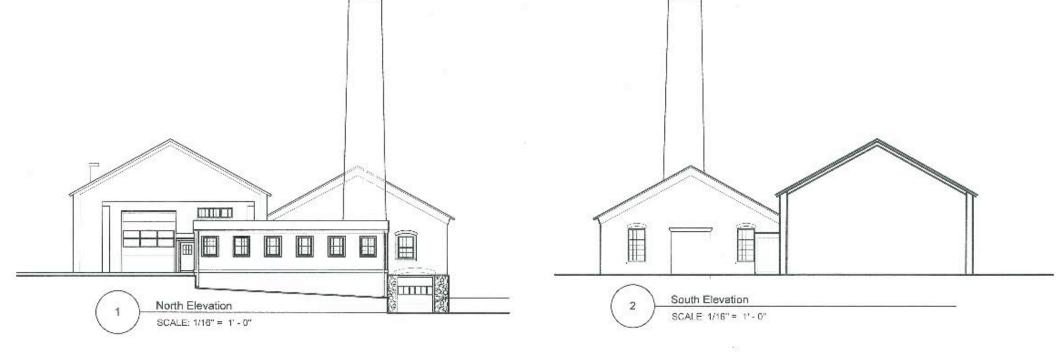


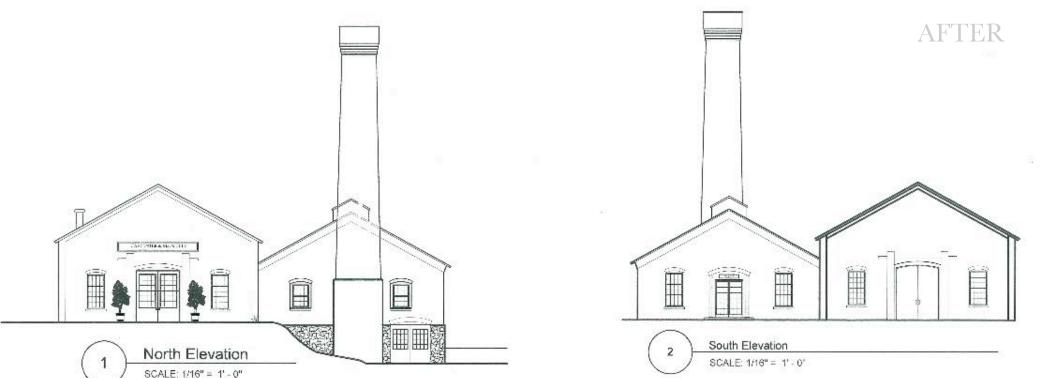
TER & MacNEILLE Architects and Builders

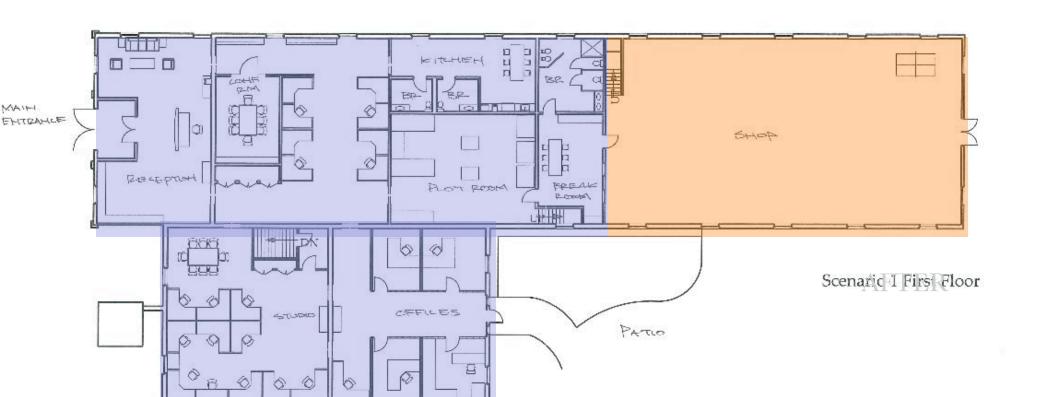


),000 +/- Project

- imize Space and add Green Space
- rove Historic Aesthetics and add Sustainable Features
- ar Renovation Plan

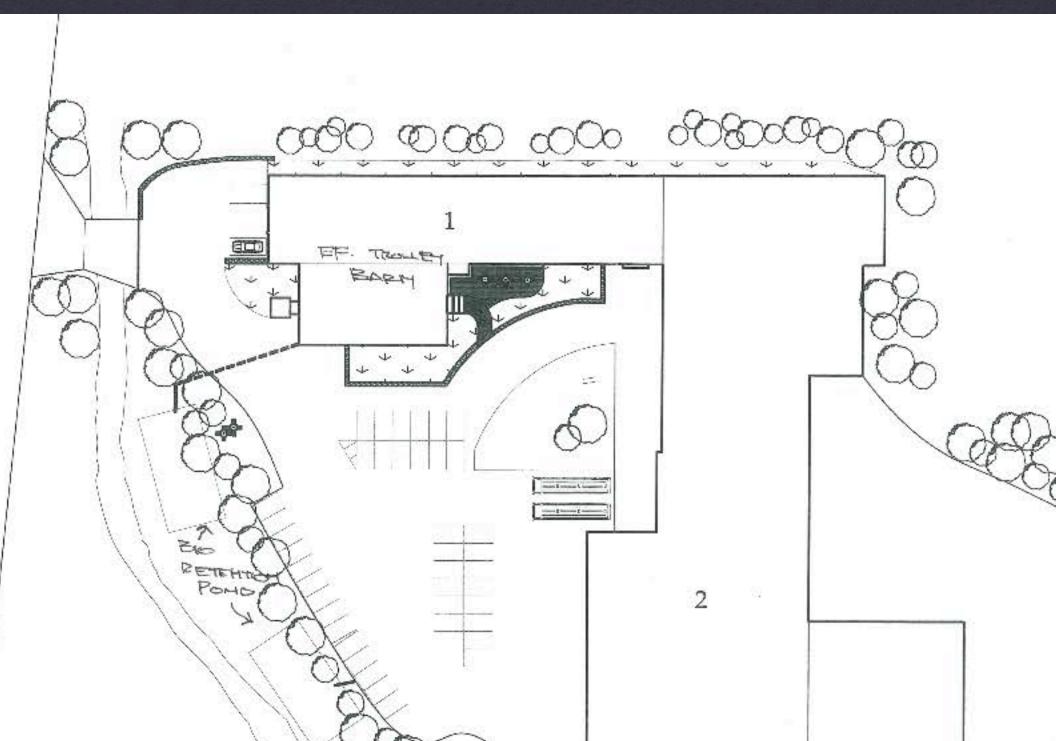








Pro

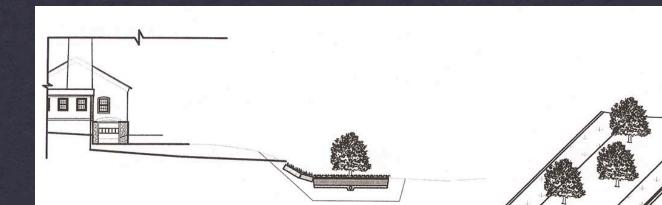


OLLEI DANN MENOVATION





- General Structural Improvements
- Masonry/Drainage/Roofing
- Restore Windows (Replace If Needed)
- 53,226 KWH Photovoltaic
- Bio Retention Pond
- Biomass Boiler
- Improved Exterior Space
- Green Building Materials
- Complete Wind Study





able Examples of Sustainable Historic Preservation east Sustainable Energy Association's Open House neentives and Residential Motivation <u>NLINE. ORG</u> and DSIREUSA. ORG



