

Extreme Makeover:

The Carpentry Shop at

Fort Ethan Allen

2016-2017

“Fort” History

- The Fort was constructed for Cavalry troops in 1894
- The Fort remained active until 1944 when it was converted to storage and civilian housing. From 1951-1960, the military renewed its interest in the base, renaming it the Ethan Allen Air Force Base for use by the Vermont Air National Guard.
- In 1960, the military base was divided up for private commercial and residential use, including use by the University of Vermont.
- Currently, the Physical Plant occupies 9 buildings at Fort Ethan Allen complex, including TCO and the *old* Carpentry Shop.

(Info obtained from UVM Campus Master Plan)



1. Southern entrance from Route 15 to Fort Ethan Allen.



3. Looking north to Physical Plant buildings on the right

tion of efficient heating systems, quality windows, and upgrades to the kitchen fixtures. These apartments are located in the Town of Colchester and zoned General Development 2 (refer to Zoning in this Chapter for further details).

The holdings in the Town of Essex also contain student family housing units, known as Ethan Allen Apartments, and a community garden as well as Physical Plant and maintenance administrative buildings.

Ethan Allen Apartments

The Ethan Allen Apartments were converted from faculty and staff rentals to student family housing in 1974. There are 12 buildings, 6 of the buildings were built in 1896 and the other 6 buildings were built in the mid 1930s. These are unique apartments. They were built extremely well and are in excellent structural condition. The University has recently completed an extensive upgrade of all systems, including the restoration of one of the buildings. These apartments are zoned in the Historic Preservation Design Control District.

Physical Plant Maintenance Buildings

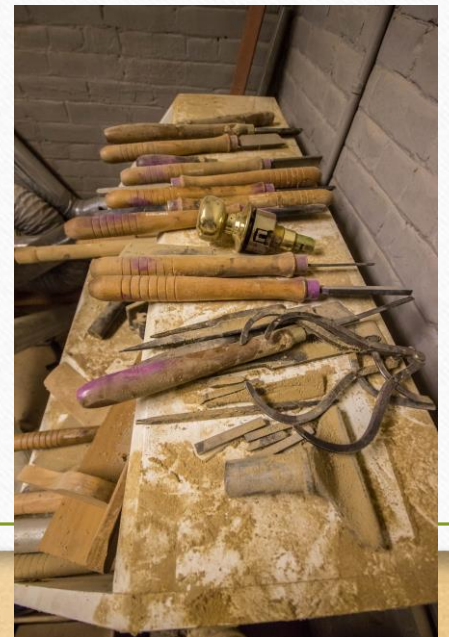
There are 9 buildings used by Physical Plant for automotive repair, carpentry, and materials management. Although these buildings serve the functional needs, this location is not ideal due to the distance from Main Campus and the conditions of the buildings. These buildings are zoned for industrial uses.

- Fort Ethan Allen
- 1 County Apartments
- 2 Ethan Allen Apartments
- 3 Physical Plant Maintenance Buildings



Once Upon a Time....at the Carpentry Shop





Project Purpose

- Replace the roof
- Improve safety and housekeeping
- Improve environmental conditions: Remove mold-covered ceiling and peeling paint; clean up entire area
- Improve lighting to create safer work space
- Add ventilation to painting/finishing room
- Removed the outdated, dangerous equipment

Improved egress and layout

Before

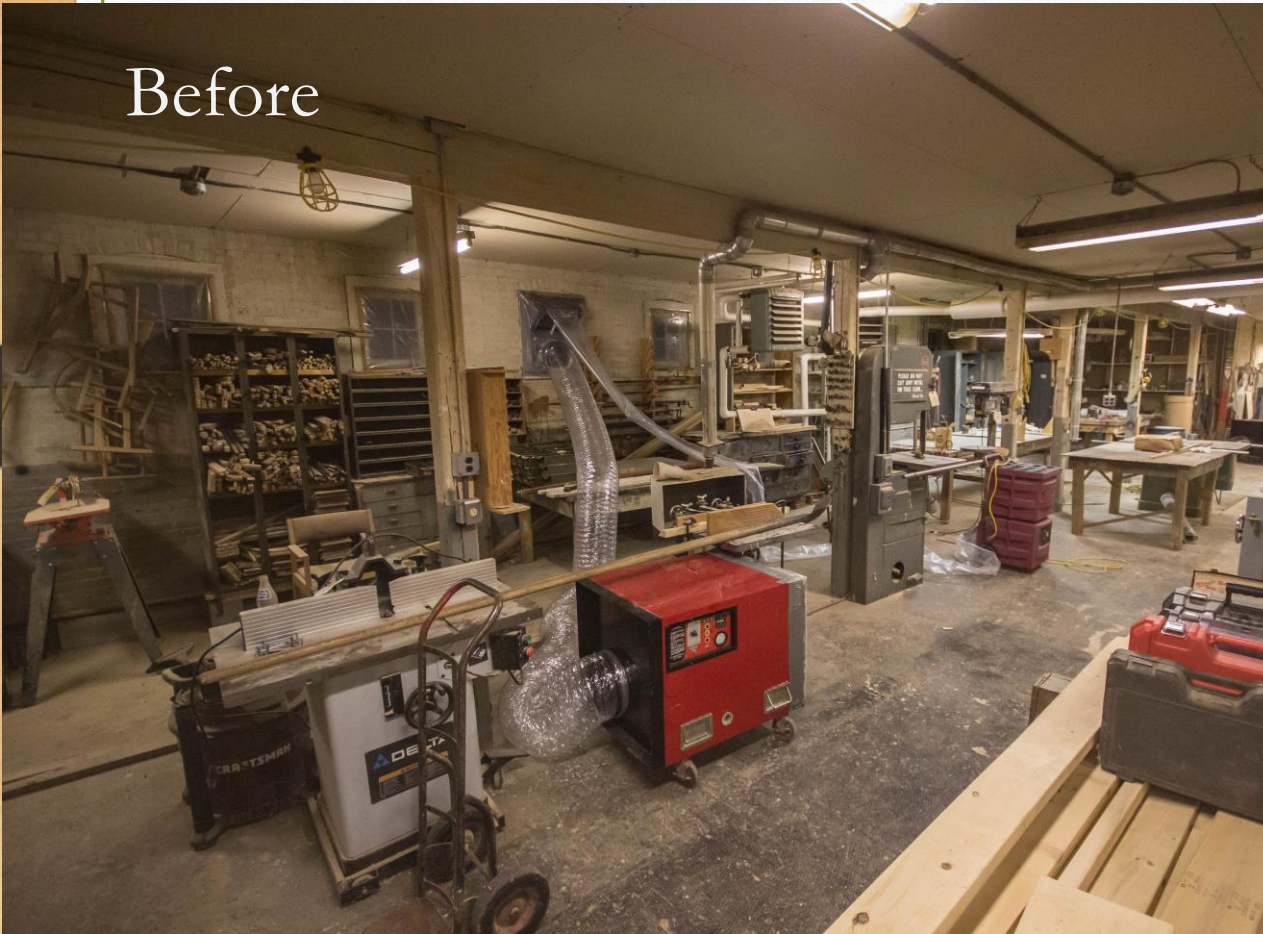


After



Improved lighting

Before



After



Improved shelving and storage off the floor

Before



After



Fresh paint throughout to brighten space



Before



After

Painted the floor

Before



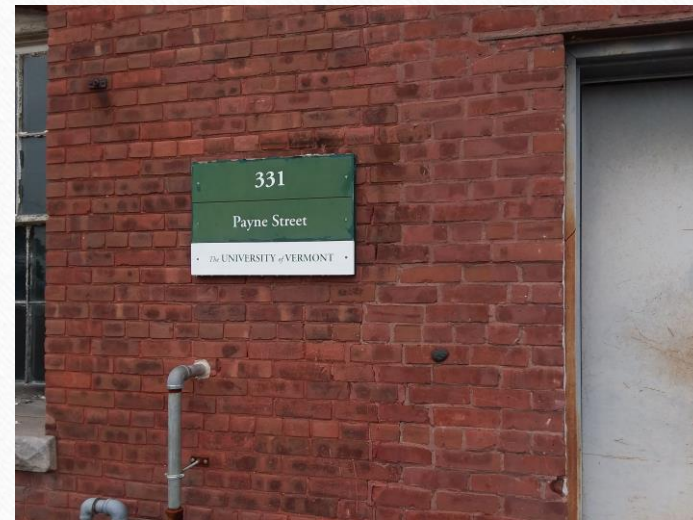
After

Installed a central vac system for sawdust





Added exhaust ventilation to the finishing/painting room



Added Cat Card door entry for security reasons.

The New Space is Being Used!

Current project: Dan Bashaw of South Zone is building 20 “table top” podiums for classrooms.



So you think your mother will clean up
your mess? We checked.
She doesn't work here.
Guess you're going to
have to do your own
cleaning then.



som**ee**cards
user card

“Authorized” Users

- Use of shop is limited to individuals who have completed TCO training course **“PPD FEA Woodworking Shop Training”**
- Training emphasizes:
 - Good Housekeeping
 - Limiting Dust Exposure
 - Proper PPE
 - Proper Use of Equipment



30-Page Work Shop Safety Manual



FORT ETHAN ALLEN WORK SHOP SAFETY MANUAL

**Ryan Avenue, Bldg. 331
Essex Junction, VT**

Prepared by the

University of Vermont

Training and Compliance Office (TCO) • March, 2017

Version 1.1



Work Shop Safety Manual

Original Equipment Manuals (OEM's)



Operating Instructions and Parts Manual 16 x 52 inch Foot Shear Model FS-1652J



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Inspection Checklist

Gary Campagna, South/Projects Zone Manager, will conduct periodic safety inspections.

Please report any concerns about 'housekeeping' practices, faulty equipment or items in need of repair or replacement to Gary.

| DESCRIPTION | YES | NO | Deficiencies/Notes | Deficiencies Corrected (provide date) |
|---|-----|----|--------------------|---------------------------------------|
| Floors are clean and free of oil, slippery substances and debris or obstacles | | | | |
| Exit paths clear | | | | |
| Powers tool are protected with correct safety guards and properly adjusted | | | | |
| Hand tools are properly maintained and in safe condition | | | | |
| General operating instructions and safety reminder signs are posted on or near shop machinery | | | | |
| Worker's utilizing workshop have signed off on review of the Work Shop Manual and have received appropriate training. | | | | |
| Unstable equipment (e.g., drill presses, band saws, etc.) is secured to the floor or a table/stand to prevent tipping. Stand mounted equipment shall be fastened to the floor to prevent tipping. | | | | |
| Materials (e.g., lumber, metal, etc. shall be stored in a manner that will prevent personal injury. | | | | |
| All electrical panels, devises and connections are labeled and maintained in a safe condition. Nothing shall be stored 36" in front of or 18" to the side of electrical panels. | | | | |
| Hazardous and/or combustible waste shall not be allowed to accumulate. Such waste shall be removed by UVM Risk Management. | | | | |
| A spill kit shall be maintained and located in a visible area. | | | | |
| All grinders shall have proper tool rests and eye safety shields | | | | |
| Eye wash station shall be within 50 feet or ten seconds of all workstations. | | | | |
| Eye protective devises (safety glasses, goggles, and full-face shields) are identified, visible, readily accessible and used by students and staff. | | | | |
| Dust collection system is operating correctly | | | | |
| Exhaust system in finishing room is operating correctly | | | | |
| All flammable liquids are stored in UFC and NFPA approve flammable storage cabinets with self-closing doors. | | | | |
| All solvents for parts cleaning shall be stored in approved containers. | | | | |
| Fire extinguishers charged/operable | | | | |
| Fire evacuation routes & procedures posted | | | | |

A Collaborative Effort by All

Thank you to everyone who helped.....

This was an “All Hands on deck” project for sure.

- Greg Whitten and Chris Bingham from MedPlex Zone
- Eric Tourville, Aaron Dion, Willy Dartt , Warren Tice, Jeff Burnham and Tom Martin from South Zone
- Ray Doner, Semir Sehic and Norm Landry from Utilities Zone
- TCO staff
- Luce Hillman and Scott Goodwin from Project Engineering Team
- And many others!