

OFFICE OF THE CHANCELLOR

575 STONE CUTTERS WAY PO BOX 7 MONTPELIER VT 05601

VERMONT STATE COLLEGES

CASTLETON STATE COLLEGE

COMMUNITY COLLEGE OF VERMONT

JOHNSON STATE COLLEGE

LYNDON STATE COLLEGE

VERMONT TECHNICAL COLLEGE

MEMORANDUM

TO: VSC Finance & Facilities Committee

M. Jerome Diamond

J. Churchill Hindes, Chair

Tim Jerman

Bill Lippert

Christopher Macfarlane, Vice Chair

Linda Milne

Martha O'Connor

Heidi Pelletier

FROM: Tom Robbins, Vice President of Finance & Administration

Chief Financial Officer

Tom

DATE: October 23, 2015

SUBJ: October 29, 2015 Finance & Facilities Committee Meeting

The Finance & Facilities Committee of the VSC Board of Trustees will meet beginning at 1 p.m. in Room 101 at the Chancellor's Office in Montpelier. The agenda and back up material for the meeting are enclosed.

If you have any questions, I can be reached at (802) 224-3022.

Thank you.

cc: VSC Board of Trustees

Council of Presidents Business Affairs Council

Sam Winship, Dept. of Finance & Management

Douglas Hoffer, State Auditor

Vermont State Colleges Board of Trustees Finance and Facilities Committee Meeting October 29, 2015

AGENDA

A. ITEMS FOR DISCUSSION AND ACTION

1. Review and Approval of FY2017 VSC Capital Projects

B. <u>ITEMS FOR INFORMATION AND DISCUSSION</u>

- 1. VSC Physical Plant Review
- 2. VSC Debt Review
- 3. Update on VSC Consultant Engagement

A. ITEMS FOR DISCUSSION AND ACTION

1. Review and Approval of FY2017 VSC Capital Projects

Annually every college evaluates its various capital needs, develops or updates estimated costs to address each identified project, and submits to the Chancellor's Office their Capital Projects List. The lists are prioritized in order of life/safety, ADA, and deferred maintenance. The FY2017 lists were submitted to the Chancellor's Office during September.

Subsequent to that Dick Ethier and Tom Robbins discussed these projects with the college administrators. As in the past the capital funds will be distributed equally amongst the four campus-based institutions, with \$75,000 going to CCV (assuming a \$1,400,000 funding scenario).

Immediately following the resolution is the VSC's summary of FY2017 capital proposals. Also provided are brief descriptions of each project. Prioritized by college is the \$4 million state capital appropriation request and the \$1 million VSC-generated funding request.

The FY2017 Project Funding Matrix is attached that shows how the capital appropriation will be distributed to the colleges based on funding scenarios of \$1,400,000; \$2,000,000; \$3,000,000; or \$4,000,000.

As in the past we will submit the \$4,000,000 list to the State of Vermont. The VSC will continue to present the case to the state that more funding is needed to help maintain our buildings and infrastructure.

VERMONT STATE COLLEGES

BOARD OF TRUSTEES

RESOLUTION

FY2017 VSC Capital Budget Proposal and State Appropriation Request

| WHEREAS, | The Vermont State Colleges possesses institutional facilities which require major maintenance and improvements, and funding these needs necessitates both State capital appropriation and other VSC funds; and |
|-----------|--|
| WHEREAS, | The Board is committed to seeing the System catch up on the backlog of deferred maintenance projects; therefore, be it |
| RESOLVED, | That the Vermont State Colleges Board of Trustees hereby approves the proposed plan of facilities maintenance and improvements with an |

1) The attached "VSC FY2017 State Capital Appropriation Request" totaling \$4,000,000; and

emphasis upon deferred maintenance projects, including specifically:

2) The attached "VSC FY2017 Self-Funded Capital Projects" totaling \$1,000,000.

VERMONT STATE COLLEGES FY 2017 CAPITAL APPROPRIATION REQUEST SUMMARY OF ALL PROJECTS

10/14/15

| | Projects Proposed | | | VSC Request |
|--|--|----------------|-------------------|--|
| VSC VSC CCV | Emergency Maintenance (Recurrent Need) Roof Repair and Replacement (Recurrent Need) Academic Facility Improvements | | \$ \$ \$ | 200,000 300,000 250,000 |
| CU CU CU | Leavenworth Elevator Upgrades Coolidge Library Window Replacement SHAPE Boiler Replacement A&E Campus Flooring Replacement Roadway / Sidewalk Replacements | | \$ \$ \$ \$ | 175,000 92,000 45,000 150,000 350,500 |
| JSC JSC JSC JSC JSC JSC JSC | Campus Walkway A&E Project Dibden Chiller Replacement Tennis Court Repair and Resurfacing Dewey Window Replacement A&E project Limited Sidewalk Repairs Campus Electrical Upgrades Campus Walkway Reconstruction Phase I Dewey Window Replacement Project | | * * * * * * * * * | 35,000 100,000 65,000 30,000 50,000 25,000 210,000 297,500 |
| LSC LSC LSC LSC LSC LSC | Shape Pool Dehumidification Equipment Campus Pond and Fountain Repair Vail Stairwell Upgrades Activities Window Replacement Wheelock Parking Lot Reconstruction Campus Stormwater Improvements | | \$ \$ \$ \$ \$ \$ | 125,000 50,000 30,000 322,000 202,000 83,500 |
| VTC VTC VTC VTC VTC VTC VTC VTC | Site Light Upgrade Phase III Green Hall Elevator Replacement Phase II Shape Pool Tile Flooring Replacement Well Pump Generator Williston Building 200 Roof Replacement Site Light Upgrade Phase IV Campus Window Replacement Project Hartness Roof Replacement | | * * * * * * * * * | 80,000 62,000 85,000 50,000 130,000 116,000 178,000 111,500 |
| | | Total Projects | \$ | 4,000,000 |

VERMONT STATE COLLEGES FY 2017 SELF FUNDED CAPITAL PROJECTS

10/14/15

REVENUE SOURCES

| | Dorm/Dining Capital Fees General Purpose Capital Fees | \$ \$ | 500,000.00 500,000.00 |
|------------|--|----------|--------------------------|
| | TOTAL SOURCES | \$ | 1,000,000.00 |
| | | | |
| PROJEC | TS PROPOSED | | |
| CU | Adams / Haskell Sprinkler Project | \$ | 250,000.00 |
| JSC JSC | Governors Electrical Upgrade Project Dorm Safety Project | \$ \$ | 225,000.00 25,000.00 |
| LSC LSC | Wheelock Restroom Renovations Stevens Dining Hall Roof Replacement | \$ \$ | 140,000.00 110,000.00 |
| VTC VTC | Nutting Student Room and Lounge Window Replacement Morey Domestic Hot Water Upgrade Project | \$ \$ | 160,000.00 90,000.00 |
| | TOTAL PROJECTS | \$ | 1,000,000.00 |

VERMONT STATE COLLEGES FY 2017 CAPITAL APPROPRATION REQUEST - STATE FUNDED PROJECTS -

CCV

Academic Facility Site Improvements: \$250,000

CCV owns or leases twelve academic facilities. Therefore the burden for interior maintenance and improvement falls within CCV's responsibilities, either through lease agreements or ownership. Significant increases for contract work necessitate an increase in requested funds. Examples of candidate projects for FY17 site improvement funds are:

- Adaptation of facilities for new and revised programmatic offerings.
- Adaptation and expansion of facilities and equipment for changes in enrollment.
- Addressing workplace safety and accessibility issues.
- Continued fit-out of site-based science and art rooms, computer labs, libraries, and other non-standard classroom facilities.
- Replacement/upgrade of building support systems (HVAC, EMS, etc.)

Castleton University

Leavenworth Elevator Upgrades Project: \$175,000

As part of the FY16 capital request, we requested elevator upgrade funding for the Campus Center and Leavenworth. The Campus Center elevator was completed but there was not sufficient funding to upgrade the unit in Leavenworth. As noted last year, this is a 1970 vintage elevator and does not comply with current Life Safety and ADA codes. Bay State Elevator Company is recommending we upgrade this elevator to reduce liability exposure and to increase dependability. It is not uncommon for this elevator to be "out of service," which creates issues for students and staff in this heavily used building.

Coolidge Library Window Replacement Project: \$92,000

The Coolidge Library was constructed in 1965 and still has the original windows. These window units are single pane glass with aluminum frames and are not thermally broken. These single pane non-thermally broken units allow the cold and heat to infiltrate the building during the winter and summer months. New energy efficient replacement windows would reduce heating and cooling costs by eliminating air infiltration.

SHAPE Boiler Replacement Engineering Design Project: \$45,000

The York Shipley Boiler was installed in 1955 and refurbished in 1989. This boiler is one of two that supply steam to the Spartan Athletic Complex and Castleton Hall. This boiler is in relatively good condition, but is showing signs of aging and is once again in need of repairs. Significant refractory work was performed recently. There is evidence of rusting around the hand holds and the front of the boiler is in need of repairs. It has been estimated that replacing this unit with a newer, energy efficient boiler would reduce our oil consumption in this boiler plant by 30%.

Campus Flooring Replacement Project: \$150,000

There are numerous areas on campus where the carpet or tile needs to be replaced due to wear and tear. Funding of this project would allow Castleton to replace the carpet in the Stafford Academic Center hallways and offices, Herrick Auditorium, Fine Arts Center and Woodruff Hall.

Sidewalk / Roadway Replacement Project: \$350,500

Replacement of failing sidewalks and roadways around campus has been an ongoing project. The main loop through campus has substantial potholes and cracking which allow moisture to penetrate the base material, causing frost heaving. Repairs have been made; however there needs to be a more long-term solution. There are also several sidewalks on campus that need to be replaced and brought up to current standards. Funding of this project would allow Castleton to continue with replacing failing sidewalks, resurfacing parking lots and roadways around campus.

Johnson State College

Campus Walkway Replacement A&E Project: \$35,000

The campus walkways throughout the campus are in a deteriorated condition and are in need of replacement. The design of the walkway system also needs to evaluated and updated. This project would provide the funds to redesign the walkway system, provide a construction estimate for phased construction and create the construction documents ready to be released for bidding.

Dibden Chiller Replacement Project: \$100,000

The air conditioning chiller unit is original equipment and currently is undependable. The Dibden Theater is used throughout the summer months hosting events and camps, so air conditioning is essential. It is proposed that a new unit be installed to increase the dependability of the building cooling system, and to reduce operating and maintenance costs.

Tennis Court Repair and Resurfacing Project: \$65,000

The asphalt base beneath these courts has failed in some locations and the existing playing surface is reflecting these asphalt base failures thus creating a poor playing surface. The scope of

this project would be to repair the asphalt base and recoat the playing surface to prolong the life of the courts.

Dewey Window Replacement A&E Project: \$25,000

Dewey Hall was constructed in 1964 and still has the original windows. These window units are single pane glass with aluminum frames and are not thermally broken. This project would provide the funding to select and design a new energy efficient window system, estimate the cost of installation, and create the construction documents so that the project can be released for bidding once the funding has been established.

Limited Sidewalk Repair Project: \$50,000

This project would temporarily repair deteriorated sections of walkways thus reducing the potential for slips and falls until the reconstruction project can be funded.

Campus Electrical Energy Upgrades Project: \$25,000

Many of the building systems are original and this project would enable us to provide more economical and dependable services to the campus. Equipment such as pumps would be replaced and variable frequency drives would be installed. Street lighting would be upgraded to LED fixtures. All these upgrades would yield energy savings and reductions in operational costs.

Campus Sidewalk Reconstruction Replacement Project Phase I: \$210,000

Funding of this project will allow us to start the reconstruction of the campus walkway system. We will start the reconstruction by releasing the construction documents created as part of the A&E project. The reconstruction will involve the complete removal of the existing walkway and the complete reconstruction of the walkway base and walking surface. This approach will remove all conditions that could lead to premature failure of the walkways and ensure a long useful life.

Dewey Window Replacement Project: \$297,500

Dewey Hall was constructed in 1964 and still has the original windows. These window units are single pane glass with aluminum frames that are not thermally broken, thus allowing the cold and heat to infiltrate the building during the winter and summer months. Funding of this project would allow us to release the construction documents create in the A&E project to install energy efficient windows units that would eliminate air infiltration thus reduce draft and conserve energy and reduce heating and cooling costs.

Lyndon State College

LSC SHAPE Pool Heating and Dehumidification Equipment Project: \$125,000

The SHAPE pool dehumidification and water heating systems are original equipment installed in 1990. These units have reached the end of their useful lives and now require substantial maintenance and repair. This project will replace these units with energy efficient equipment, reducing operating and maintenance costs.

Campus Pond and Fountain Repair Project: \$50,000

The pond which contains the fountain located in the center of campus has developed a leak and requires periodic addition of water to maintain its water level This is a manmade pond that has been part of the campus culture for decades. This project would provide the funding to dredge the existing pond, install a new liner, update the plumbing associated with the fountain, and to also replace the auto fill and overflow systems.

Vail Stairwell Upgrades Project: \$30,000

The stairwells in Vail Hall are in dire need of an upgrade in finishes. This project would allow us to completely repaint the walls, ceilings and handrails as well as replace all stair treads and landing floor tile.

Activities Window Replacement Project: \$322,000

The windows located in the Activities Building are the original wood framed thermopane units. Over the years the seals in these thermopane units have failed, thus causing them to collect moisture and become unsightly. This project would replace these units with energy efficient units, improving the appearance and conserving energy.

Wheelock Parking Lot Reconstruction Project: \$202,000

This parking lot has deteriorated to the point where cracks, pot holes, and heaved portions can no longer be effectively "spot" repaired. We are proposing to reclaim the existing asphalt and reconstruct the base with 3" of additional gravel, and repave with 3½ inches of asphalt. All storm drains will be repaired and manhole covers will be adjusted accordingly. Parking spaces, crosswalks, and HC markings will be repainted.

Campus Stormwater Improvements Project: \$83,500

Recently LSC contracted with Krebs and Lansing Consulting Engineers to create a Campus Stormwater Management Plan. This plan identified a number of areas on campus that would benefit from improvements in stormwater management. This project would fund improvements in the following areas:

- Add retention pond to lower discharge area below Skateboard Park.
- Tie stormwater drains from Harvey and Wheelock into the storm system emptying into the Rita Bole retention pond.
- Upgrade rain gardens at Stonehenge by increasing holding capacity in all areas.
- Address all swales and upper rain garden and swales along Lower Campus Drive to retention area.

Vermont Technical College

Site Lighting Improvements, Phase III: \$80,000

The site lighting system on the Randolph Center campus is approximately 20 years old. There are 182 pole lights on the campus, 60 of which are currently LED fixtures. The remaining poles consist of metal halide or high pressure sodium fixtures. Because these poles and fixtures are showing their age and are in need of replacement, we would like install new LED fixtures and replace the poles on a phased project schedule over 3-4 years. Funding for the new LED fixtures and poles and underground electrical repairs were done in 2009/2012/2015 and have proved to be not only energy saving, but offer a truer color rendition for the public safety.

Green Hall Elevator Replacement Project Phase II: \$62,000

This project was partially funded by the FY16 capital appropriation. As part of the FY17 request we are requesting the balance of the funds required to complete this project. It is proposed to fully modernize the existing 40-year-old elevator in Green Hall. This two-stop unit will be updated to comply with current Life Safety and ADA code. Upgrades will include items such as:

- New ADA compliant surface mount hall stations, one at each floor, elevator opening.
- New complete submersible power unit with state of the art valve, pump, motor, and oil reservoir.
- New fully ADA compliant car operating panel complete with ADA push to talk hands free phone, LED Digital Position indicator, and Emergency Light and alarm unit.

SHAPE Pool Tile Flooring Repair and Replacement Project: \$85,000

The SHAPE pool has been in operation for 25 years. Pool environments are harsh on surrounding surfaces and mechanical systems. As a result of these harsh conditions a number of small projects are need to be funded to maintain the overall appearance of the pool and its functionality. The deck ceramic tile flooring is showing signs of wear and needs to be repaired or

replaced. The stainless steel pool deck perimeter drain is deteriorating in a few locations; sections will be removed and replaced as required. Also the HVAC air supply ducts located under the concrete pool deck slab are in need of repair, as sand is infiltrating into the supply ducts and being deposited on the pool deck. These ducts would be repaired and sealed to prevent this condition.

Campus Well Pump Emergency Generator Project: \$50,000

As part of the VTC utility plan, the addition of a generator for the water supply well pump would serve to provide uninterrupted electrical power supply for the campus and community water system. Currently a portable PTO driven unit is used to provide such power. However, the addition of a permanent standby generator would create a seamless operation of providing constant water supply for drinking and for fire suppression. The project consists of purchasing a small generator (on a concrete pad), switchgear, and associated electrical supplies to connect with the existing electrical supply and to the well pump to allow for uninterrupted power supply to operate the well pump.

Williston Building 200 Roof Replacement Project: \$130,000

This project is to replace the current EDPM membrane roof on this building, which is over 26 years old. It was not replaced when the building underwent an interior renovation approximately 6 years ago, and has reached the end of its useful life. Leaks have become more commonplace and, as this building houses a newly renovated interior, it is recommended that the roof be replaced within the next 1-2 years with a .060 EDPM membrane system.

Site Lighting Improvements, Phase IV Project: \$116,000

The site lighting system on the Randolph Center campus is approximately 20 years old. There are 182 pole lights on the campus. Previous projects have allowed us to replace existing high pressure sodium and metal halide fixtures with LED fixtures. With the funding of this final phase we will have replaced all the old fixtures with energy efficient LED lighting.

Window Replacement Project: \$178,000

Administration Building: We would like to replace the two storefront windows located on the north and south entries of this building. These windows were installed as part of the general building renovation in 1986. However, the metal support frame is deteriorating because of the use of salt, which in turn is then oxidizing (deteriorating) the aluminum window frames.

Conant: We would like to replace the existing original (1964) single pane hopper windows in this building. The storefront windows and entry doors have been replaced, are in good shape, hence they are not included in this project. There are 36 total windows in this building, and we would like to replace these windows with a more energy efficient Dual Pane/Low E model. We would also like to include new window treatment as well.

Morrill/Morrill Annex: We would like to replace the existing original (1964) single pane hopper windows in these buildings, as well as several original wood doors. There are 26 windows in Morrill, 18 doors in Morrill Annex, as well as two storefront and 6 exterior doors that we would like to replace. All windows will be replaced with a double pane Low E model. Doors will be replaced with energy efficient models as well.

Hartness Roof Replacement Project: \$111,500

The current EDPM membrane roof on this building is 20+ years old and is reaching the end of its expected life. This roof has been repaired numerous times. The lack of funding prevented us from replacing this roof when the building underwent a complete interior renovation in 2012. It is proposed that the roof be replaced with a new .060 EDPM fully adhered roofing system.

VSC

Emergency Maintenance: \$200,000

As in previous years, this is annual funding to provide the college system with a contingency that will be used to fund unplanned needs that inevitably arise across VSC's more than 100 buildings (approximately 1,700,000 sq ft) and over 1,400 acres of property, which combined have a replacement value approaching \$250,000,000.

Roof Repair and Replacement: \$300,000

To address the most serious roofing concerns as assessed from annual review of all structures throughout the college system.

VERMONT STATE COLLEGES FY 2017 CAPITAL APPROPRIATION REQUESTS - DORM / DINING PROJECTS -

Castleton University

Adams and Haskell Sprinkler Project: \$250,000

There has been increased pressure from the State Fire Marshal to install automatic sprinkler systems in these two older residence halls. All residence halls constructed within the past 10 years have been sprinkled. Castleton would like to continue installing sprinkler systems in each of its residence halls because student safety is paramount and this is another way to ensure student safety within the residence halls.

Johnson State College

Governors Electrical Upgrade Project: \$225,000

The existing transformers and main distribution panels are original building equipment and approximately 45 years old. The main distribution panels were manufactured by Federal Pacific, which is no longer in business, making replacement parts very difficult to obtain. Funding of this project would allow JSC to implement the final phase of what has been a multi-phased project to replace this equipment.

Dorm Safety Projects: \$25,000

This project will fund the final design of the Governors – Senators sprinkler systems and creation of specifications and construction documents in preparation for bidding. Also funded will be the continuation of the dorm security system, another group of student room electronic locksets will be replaced with the lasted model which has the ability to be networked and will allow for system modifications to be done remotely.

Lyndon State College

Stevens Dining Hall Roof Replacement Project: \$110,000

This asphalt shingle roof is approaching 25 years old and is in very poor condition and is at the end of its expected life. We have areas where the shingles have curled and broken, and where the plywood substrate is delaminating. This project would fund the replacement of the roof, repair the substrate as required, and replace siding and flashing as needed.

Wheelock Restroom Renovation project: \$140,000

The restrooms in the Wheelock Residence Hall are 50 years old. These restrooms are aesthetically unpleasing and the plumbing and ventilation systems have become maintenance problems. This project would allow for the demolition and reconstruction of the restrooms. Each will receive new fixtures, counters, lighting, wall and floor finishes.

Vermont Technical College

Nutting Lobby and Lounge Window Replacement Project: \$160,000

When Nutting was constructed in 1970, the windows installed in the student lounges and activities rooms were state of the art PVC framed thermopane units. Presently these units have deteriorated frames and glass panes that are no longer thermally insulated. We also have 85 student rooms that have single pane sliding windows. These windows are very inefficient and are in dire need of replacement. This project would fund the installation of energy efficient units, provide functional windows, and improved aesthetics.

Morey Hall Domestic Hot Water Upgrade Project: \$90,000

There are two 1,000-gallon water storage tanks that provide the domestic hot water needs for the dining hall kitchen and the 140 residence hall occupants. The existing system and water tanks are 47 years old, and are in need of an upgrade to more effective and efficient system thus reducing maintenance and energy costs.

10/14/15

FY 17 Project Funding Matrix

| Scenario | | 1,400,000 | | 2,000,000 | | 3,000,000 | | 4,000,000 |
|---|--|---|---|---|--|---|--|--|
| си | LeavenworthElevator Upgrade Coolidge Library Windows | 175,000 106,250 | LeavenworthElevator Upgrade Coolidge Library Windows Shape Boiler Replacement A&E Campus Flooring Replacement | 175,000 92,000 45,000 81,750 | LeavenworthElevator Upgrade Coolidge Library Windows Shape Boiler Replacement A&E Campus Flooring Replacement Roadway / Sidewalk Replacements | 175,000 92,000 45,000 150,000 163,000 | LeavenworthElevator Upgrade Coolidge Library Windows Shape Boiler Replacement A&E Campus Flooring Replacement Roadway / Sidewalk Replacements | 175,000 92,000 45,000 150,000 350,500 |
| JSC | Campus Walkway Reconstruction A&E Dibden Chiller Replacement Tennis Court Repair and Resurfacing Dewey Window Replacement A&E Limited Sidewalk Repairs | 35,000 100,000 65,000 30,000 51,250 | Campus Walkway Reconstruction A&E Dibden Chiller Replacement Tennis Court Repair and Resurfacing Dewey Window Replacement A&E Limited Sidewalk Repairs Campus Electrical Upgrades Campus Walkway Reconstruction Phase I | 35,000 100,000 65,000 30,000 50,000 25,000 88,750 | Campus Walkway Reconstruction A&E Dibden Chiller Replacement Tennis Court Repair and Resurfacing Dewey Window Replacement A&E Limited Sidewalk Repairs Campus Electrical Upgrades Campus Walkway Reconstruction Phase I Dewey Window Replacement Phase I | 35,000 100,000 65,000 30,000 50,000 25,000 210,000 110,000 | Campus Walkway Reconstruction A&E Dibden Chiller Replacement Tennis Court Repair and Resurfacing Dewey Window Replacement A&E Limited Sidewalk Repairs Campus Electrical Upgrades Campus Walkway Reconstruction Phase I Dewey Window Replacement | 35,000 100,000 65,000 30,000 50,000 25,000 210,000 297,500 |
| LSC | Shape Pool Dehumidification Equipment Campus Pond and Fountain Repair Vail Stairwell Upgrades Activities Window Replacement Phase I | 125,000 50,000 30,000 76,250 | Shape Pool Dehumidification Equipment Campus Pond and Fountain Repair Vail Stairwell Upgrades Activities Window Replacement | 125,000 50,000 30,000 188,750 | Shape Pool Dehumidification Equipment Campus Pond and Fountain Repair Vall Stairwell Upgrades Activities Window Replacement Wheelock Parking Lot Reconstruction | 125,000 50,000 30,000 332,000 88,000 | Shape Pool Dehumidification Equipment Campus Pond and Fountain Repair Vail Stairwell Upgrades Activities Window Replacement Wheelock Parking Lot Reconstruction Stormwater Improvements | 125,000 50,000 30,000 332,000 202,000 73,500 |
| VTC | Site Light Upgrade Phase III Green Hall Elevator Replacement Phase II Shape Pool Tile Flooring Replacement Well Pump Generator | 80,000 62,000 85,000 54,250 | Site Light Upgrade Phase III Green Hall Elevator Replacement Phase II Shape Pool Tile Flooring Replacement Well Pump Generator Williston Building 200 Roof Replacement | 80,000 62,000 85,000 50,000 116,750 | Site Light Upgrade Phase III Green Hall Elevator Replacement Phase II Shape Pool Tile Flooring Replacement Well Pump Generator Williston Building 200 Roof Replacement Site Light Upgrade Phase IV Campus Window Replacement Phase I | 80,000 62,000 85,000 50,000 130,000 116,000 102,000 | Site Light Upgrade Phase III Green Hall Elevator Replacement Phase II Shape Pool Tile Flooring Replacement Well Pump Generator Williston Building 200 Roof Replacement Site Light Upgrade Phase IV Campus Window Replacement Hartness Roof Replacement Phase I | 80,000 62,000 85,000 50,000 130,000 116,000 178,000 111,500 |
| ccv | Academic Facility Improvements | 75,000 | Academic Facility Improvements | 150,000 | Academic Facility Improvements | 200,000 | Academic Facility Improvements | 250,000 |
| Emergency Mainter Roof Repair /Replace Scenario Total | | 100,000 100,000 1,400,000 | | 125,000 150,000 2,000,000 | | 150,000 150,000 3,000,000 | | 200,000 300,000 4,000,000 |
| Note: Campus based | d split = | 281,250 | | 393,750 | | 625,000 | | 812,500 |

B. ITEMS FOR INFORMATION AND DISCUSSION

1. <u>VSC Physical Plant Review</u>

a. College Review by Physical Plant Directors

The physical plant directors from each college have been invited to each give a brief overview of their campuses.

b. Building Spreadsheet Review

The following building inventory spreadsheet represents all the buildings owned and leased by the VSC. Buildings are listed by college and in descending order by age. The spreadsheet also includes building square footage and the insured replacement cost.

| 40/00/45 | V3C | Building inve | T | | | |
|--|--------------------------|------------------|--------------|-------------------------|---------|---------------|
| 10/20/15 | | Y | D 11.11 | | 1051 | |
| LOCATION DESCRIPTION | Occum/Doca | Year Built | Building Age | CONST | AREA | DUIL DING |
| LOCATION DESCRIPTION | Occup/Desc | | 455 | CONST | SQ. FT. | BUILDING |
| Community College of VT / 41 Harmony Place, Brattleboro, VT 05301 | Classroom (Leased Space) | 1860 / 2014 | 155 | Brick / Wood Frame | 8,435 | \$816,000 |
| Community College of VT, 1997 Main St, St. Johnsbury VT | Classroom | 1869 | 146 | Brick | 6,032 | <u>\$0</u> |
| Community College of VT, 10 Merchants Row, Middlebury, VT | Classroom | 1900 | 115 | Brick | 2,950 | \$0 |
| Community College of VT, 324 Main St, Bennington VT | Classroom | 1920 | 95 | Brick | 9,800 | \$0 |
| Community College of VT, 197 Harrel St, Morrisville, VT | Classroom | 1984 | 31 | Wood Frame | 6,818 | \$0 |
| Community College of VT, 660 Elm Street , Montpelier, VT | Classroom Building | 1987/ 2000/ 2012 | 28 | Wood / Steel framed | 34,000 | \$7,900,500 |
| Community College of VT, 142 So. Main St, St. Albans VT | Classroom | 1992 | 23 | Wood Frame | 9,900 | \$1,328,700 |
| Community College of VT, 100 Main St, Newport VT 05855 | Classroom | 1998 | 17 | Brick | 8,600 | \$0 |
| Community College of VT, Billings Farm Industrial Park, Wilder VT | Classroom | 2004 | 11 | Brick/Steel | 15,000 | \$2,480,579 |
| Community College of VT, 1 Abenaki Way, Winooski, VT | Classroom/Admin | 2009 | 6 | Masonry/NC | 65,000 | \$14,500,000 |
| Community College of VT, 60 West Street, Rutland, VT 05701 | Classroom | 2011 | 4 | Masonry/NC | 32,241 | \$0 |
| | | | | ļ | 198,776 | \$27,025,779 |
| | | | | | | |
| | 10.00 | | | | | |
| Castleton State, Rutland, VT 05701 (leased Space) | Offices | | | Brick/Wood | 2,000 | \$0 |
| Castleton State, Castleton, VT (30 Seminary Lane) | Offices | Pre 1900 | 115+ | Wood Frame | 3,316 | \$235,000 |
| Castleton State, Castleton, VT (36 Seminary Lane) | residence | Early 1900's | 100+ | Wood Frame | 1,468 | \$150,000 |
| Castleton State, Castleton, VT (Old Chapel) | Seminar | 1821/1987 | 194 | Wood Frame | 3,180 | \$1,303,609 |
| Castleton State, Castleton, VT (HopeHouse/Wellness Center) | Wellness Center | 1850 | 165 | Wood Frame | 2,168 | \$446,608 |
| Castleton State, Castleton, VT (Wooldridge House) | Art Studio | 1890 | 125 | Wood Frame | 2,500 | \$515,000 |
| Castleton State, Castleton, VT (Moriarty House) | Classroom/Office | 1900 | 115 | Wood Frame | 2,850 | \$463,809 |
| Castleton State, Castleton, VT (Chris White House) | House | 1900's | 115 | Wood Framed | 1,200 | \$300,000 |
| Castleton State, Castleton, VT (Wright House) | Offices | 1900 | 115 | Wood Frame | 4,200 | \$865,200 |
| Castleton State, Castleton, VT (Observatory) | Observatory | 1919 | 96 | Brick/Metal | 160 | \$70,198 |
| Castleton State, Castleton, VT (Woodruff Hall) | Classroom/Administration | 1927 | 88 | Brick/Wood | 26,916 | \$6,376,400 |
| Castleton State, Castleton, VT (Ellis Hall) | Dormitory | 1950 | 65 | Brick/Block | 26,384 | \$4,538,312 |
| Castleton State, Castleton, VT (Glenbrook Gym) | Gymnasium | 1959/2009 | 56 | Brick/Block | 42,702 | \$12,518,265 |
| Castleton State, Castleton, VT (Huden Hall) | Dining Hall | 1965/1997 | 50 | Brick/Wood | 14,321 | \$4,702,723 |
| Castleton State, Castleton, VT (Adams Hall) | Dormitory | 1965 | 50 | Brick/Steel | 31,224 | \$5,370,841 |
| Castleton State, Castleton, VT (Haskell Hall) | Dormitory | 1965 | 50 | Brick/Block | 31,224 | \$5,370,840 |
| Castleton State, Castleton, VT (Morrill Hall) | Dormitory | 1968 | 47 | Brick/Block | 25,416 | \$4,371,806 |
| Castleton State, Castleton, VT (Wheeler Hall) | Dormitory | 1968 | 47 | Brick/Block | 25,416 | \$4,371,806 |
| Castleton State, Castleton, VT (Fine Arts Center) | Auditorium | 1969 | 46 | Brick/Steel | 46,467 | \$9,045,731 |
| Castleton State, Castleton, VT (Superior Boiler Room) | Boiler Plant | 1969 | 46 | Brick/Block | 2,222 | \$645,402 |
| Castleton State, Castleton, VT (Jeffords Science Center) | Classroom | 1969/1993/2007 | 46 | Brick/Block | 34,100 | \$11,280,000 |
| Castleton State, Castleton, VT (President's House) | Residence | 1972 | 43 | Wood Frame | 3,822 | \$787,332 |
| Castleton State, Castleton, VT (Leavenworth Hall) | Classroom | 1974/2009 | 41 | Brick/Block | 33,628 | \$6,775,520 |
| Castleton State, Castleton, VT (Campus Center) | Student Union | 1975/2009 | 40 | Block/Steel | 35,068 | \$7,859,651 |
| Castleton State, Castleton, VT (Babcock Hall) | Dormitory | 1989 | 26 | Brick/Steel | 28,392 | \$4,883,708 |
| Castleton State, Castleton, VT (SHAPE (gym) Addition) | Gymnasium | 1990 | 25 | Brick/Block | 25,048 | \$5,933,871 |
| Castleton State, Castleton, VT (Stafford Academic Ctr) | Classroom/Office | 1999 | 16 | Brick/Steel | 26,409 | \$9,082,241 |
| Castleton State, Castleton, VT (Calvin Coolidge Library) | Library | 1999 | 16 | Brick/Steel | 33,158 | \$6,651,598 |
| Castleton State , Rutland, Vt (Spartan Arena) | Ice Arena | 2004 | 11 | Prengineered Metal | 42,256 | \$4,000,000 |
| Castleton State, Castleton, VT (Residence Hall and Fitness Center) | Residence/Fitness | 2004 | 11 | Brick/Steel | 53,750 | \$9,245,538 |
| Castleton State, Castleton, VT (North, Center & South Halls) 3 buildings | Dormitory | 2006 | 9 | Wood Frame | 35,295 | \$5,380,370 |
| Castleton State, castleton, Vt. (Green House) | Green House | 2008 | 7 | Steel / Glass | 600 | \$360,000 |
| Castleton State, Behind 360 Street (Stadium/Bleachers) | Athletic Facility | 2009 | 6 | Steel / Wood | 6,700 | \$3,602,417 |
| Castleton State, Castleton, VT (Maintenance Building) | Maintenance Building | 2011 | 4 | Wood/Prengineered Metal | 15,500 | \$2,400,000 |
| Castleton State College (Residence Hall) | Dormitory | 2012 | 3 | Brick / Steel | 43,800 | \$7,800,000 |
| Castleton State, Castleton, VT (Pavilion Building) | Pavilion | 2012 | 3 | Wood Frame | 8,300 | \$1,500,000 |
| Saster, State, Saster, Fr (1 armon banding) | 1 44111011 | 2012 | | TTOOG I IGING | 0,000 | ψ1,000,000 |
| | | | | | 721,160 | \$149,203,796 |
| | | | | | , | ψ1-10,200,100 |
| | | | | | | |
| | | | 11 | L | | |

| 40/20/45 | V3C | bulluling live | TITOLY | | T | |
|---|--------------------------------|-------------------|--------------|-------------------------------|------------------|----------------------------|
| 10/20/15 | | Veer | Duilding Age | | ADEA | |
| LOCATION DESCRIPTION | Occup/Desc | Year Built | Building Age | CONST | AREA SQ. FT. | BUILDING |
| Johnson State College, Johnson, VT (Farm House Duranleau) | Farm House | 1919 | 96 | Wood Frame | 2,000 | \$257,500 |
| Johnson State College, Johnson, VT (McClellend Hall) | Classrooms/Offices | 1941 | 74 | Brick/Steel | 17,888 | \$3,242,737 |
| Johnson State College, Johnson, VT (Martinetti Hall) | Dormitory/Offices | 1958 | 57 | Brick/Block | 39,812 | \$5,535,859 |
| Johnson State College, Johnson, VT (Arthur Hall) | Dormitory | 1964/2012 | 51 | Brick/Conc | 31,224 | \$4,881,697 |
| Johnson State College, Johnson, VT (Dewey Campus Ctr) | Classrooms/Offices | 1964 | 51 | Brick/Steel | 19,020 | \$3,095,315 |
| Johnson State College, Johnson, VT (Carter Gymnasium) | Gymnasium | 1965/2009 | 50 | Brick/Block | 16,300 | \$5,287,369 |
| Johnson State College, Johnson, VT (President's House) | Residence | 1967 | 48 | Wood Frame | 2,000 | \$257,500 |
| Johnson State College, Johnson, VT (Governors Hall) | Dormitory | 1968 | 47 | Brick/Block | 41,952 | \$5,833,426 |
| Johnson State College, Johnson, VT (Stearns Dining Hall) | Dining Hall | 1968/ 2008 | 47 | Brick/Block | 42,276 | \$15,000,000 |
| Johnson State College, Johnson, VT (Bentley Hall) | Classroom/Labs | 1970/2010/2011 | 45 | Brick/Block | 26,064 | \$7,216,495 |
| Johnson State College, Johnson, VT (Dibden Auditorium) | Auditorium | 1970 | 45 | Brick/Block | 30,160 | \$4,877,174 |
| Johnson State College, Johnson, VT (Duranleau Barn) | Barn | 1970 | 45 | Wood Frame | 2,000 | \$175,100 |
| Johnson State College, Johnson, VT (Senators Hall) | Dormitory | 1970 | 45 | Brick/Block | 57,600 | \$8,009,280 |
| Johnson State College, Johnson, VT (Water Tower) | Water Tower | 1970 | 45 | Steel | 1,440 | \$566,500 |
| Johnson State College, Johnson, VT (Campus Apartments) | Apartments | 1973 | 42 | Wood Frame | 43,276 | \$8,290,816 |
| Johnson State College, Johnson, VT (Visual Arts Ctr) | Classrooms | 1976/2012 | 39 | Brick/Block | 14,030 | \$3,000,000 |
| Johnson State College, Johnson, VT (Maintenance Bldg) | Maintenance Shop | 1978 | 37 | Block/Wood | 7,200 | \$696,014 |
| Johnson State College, Johnson, VT (House 1096 College Hill) | House | 1980 | 35 | Wood Framed | 2,589 | \$225,000 |
| Johnson State College, Johnson, VT (Shop Storage) | Storage Building | 1982 | 33 | Wood Frame | 1,200 | \$105,060 |
| Johnson State College, Johnson, VT (Garage) | Bus Shed | 1983 | 32 | Wood Frame | 2,880 | \$222,480 |
| Johnson State College, Johnson, VT (Hazardous Material Storage Shed) | Haz Storage at Maint | 1993 | 22 | Wood Frame | 168 | \$21,630 |
| Johnson State College, Johnson, VT (Library Learning Ctr) | Library | 1995 | 20 | Brick/Steel | 39,000 | \$6,065,670 |
| | | | | | | |
| | | | | | 440,079 | \$82,862,622 |
| | | | | | | |
| | | | | | | |
| Lyndon State College, Lyndonville, VT (McGoff Hill House (325k) & Barn (100k)) | Residence | 1860 | 155 | Wood | 2,464 | \$325,000 |
| Lyndon State College, Lyndonville, VT (Alumni House) | Offices | 1910 | 105 | Wood Frame | 3,628 | \$513,816 |
| Lyndon State College, 173 York Street, Lyndon, VT 05849 | Grange Building (Vacant) | 1915 | 100 | Masonry | 3,600 | \$300,000 |
| Lyndon State College, Lyndonville, VT (Day Care Ctr) | Day Care Facility | 1960 | 55 | Wood Frame | 2,016 | \$342,619 |
| Lyndon State College, Lyndonville, VT (Gray House) | Residence | 1963 | 52 | Wood Frame | 2,859 | \$404,905 |
| Lyndon State College, Lyndonville, VT (Ball Field Service Bldg) | Residence | 1963 | 52 | Wood Frame | 688 | \$77,044 |
| Lyndon State College, Lyndonville, VT (President's House) | Residence | 1964 | 51 50 | Wood Frame | 4,158 | \$588,877 |
| Lyndon State College, Lyndonville, VT (Stevens Dining Hall) | Dining Hall Classrooms/Offices | 1965 | | Brick/Wood | 13,438 | \$3,121,177 |
| Lyndon State College, Lyndonville, VT (Harvey Academic Ctr) | Dormitory | 1965/2010 1965 | 50 50 | Brick/Steel | 19,495 31,224 | \$6,489,878 |
| Lyndon State College, Lyndonville, VT (Wheelock Dormitory) Lyndon State College, Lyndonville, VT (Arnold/Bayley Dorm Complex) | Dormitory | 1965 | 48 | Brick/Concrete Brick/Concrete | 35,709 | \$4,775,867 \$5,461,870 |
| Lyndon State College, Lyndonville, VT (Amoid/Bayley Dorm Complex) Lyndon State College, Lyndonville, VT (Rogers/Poland Dorm Complex) | Dormitory | 1967 | 48 | Brick/Concrete | 30,862 | \$4,720,497 |
| Lyndon State College, Lyndonville, VT (Activities Building) | Thearter/Gym/Labs | 1969/2011 | 46 | Brick/Steel | 80,865 | \$17,697,157 |
| Lyndon State College, Lyndonville, VT (Maintenance Shop) | Maintenance Shop | 1970 | 45 | Steel | 8,700 | \$1,330,709 |
| Lyndon State College, Lyndonville, VT (Crevecoeur/Whitelaw Dorm Complex) | Dormitory | 1970 | 45 | Brick/Concrete | 36,036 | \$5,511,886 |
| Lyndon State College, Lyndonville, VT (Samuel Reed Hall Library) | Library | 1971 | 44 | Block/Concrete | 50,000 | \$8,554,150 |
| Lyndon State College, Lyndonville, VT (Claimer Reed Hair Library) Lyndon State College, Lyndonville, VT (Theodore Vail Ctr) | Classrooms/Offices | 1976 | 39 | Brick/Concrete | 56,610 | \$12,314,713 |
| Lyndon State College, Lyndonville, VT (Trieddic Vali Gti) | Health Services | 1978 | 37 | Wood Frame | 3,844 | \$653,288 |
| Lyndon State College, Lyndonville, VT (Brown house) | Storage Building | 1983 | 32 | Wood Frame | 1,224 | \$94,127 |
| Lyndon State College, Lyndonville, VT (Storage Bldg) | Storage Building | 1983 | 32 | Wood Frame | 5,000 | \$475,860 |
| Lyndon State College, Lyndonville, VT (Transmitter House) | Radio Equipment | 1986 | 29 | Block | 169 | \$16,995 |
| Lyndon State College, Lyndonville, VT (Rita Bole Ctr Shape) | Gym/Pool | 1990 | 25 | Brick/Steel | 21,500 | \$5,382,420 |
| Lyndon State College, Lyndonville, VT (New Student Housing Complex) | Dormitory | 2005 | 10 | Brick/Steel | 48,068 | \$7,375,830 |
| Lyndon State College, Lyndonville, VT (Academic and Student Center) | Offices | 2009 | 6 | Brick / steel | 33,853 | \$8,200,000 |
| | | | | | | |
| | | | | | 496,010 | \$94,728,685 |
| | | | | | | |
| | | | | | | |

| | VSC | Building Inv | entory | | | |
|---|--------------------------|--------------|--------------|--------------------|--------------|-------------|
| 10/20/15 | | | | | | |
| | | Year | Building Age | | AREA | |
| LOCATION DESCRIPTION | Occup/Desc | Built | | CONST | SQ. FT. | BUILDING |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Vermont Technical College, Randolph Center, VT (Langevin Hall) | Conference Ctr. | 1803 | 212 | Wood Frame | 3,500 | \$780,249 |
| VTC Nursing Program, Thompson School, 41 Harmony Place, Brattleboro VT | Classrooms | 1860 / 2014 | 155 | Brick / Wood Frame | 8,127 | \$784,000 |
| Vermont Technical College, Randolph Center, VT (Allen House) | Offices | 1869/2012 | 146 | Brick/Wood | 6,111 | \$1,250,000 |
| Vermont Technical College, Randolph Center, VT (Red School House) | Classrooms/Offices | 1901 | 114 | Wood Frame | 6,489 | \$1,750,000 |
| Vermont Technical College, Randolph Center, VT (Old Dorm) | Dormitory | 1918 | 97 | Wood F/Vinyl Side | 39,091 | \$7,806,604 |
| Vermont Technical College, Randolph Center, VT (Nutting House) | Residence | 1919 | 96 | Wood Frame | 4,782 | \$646,466 |
| VTC Nursing Program, Putnam Memorial, Bennington VT | Classrooms | 1946 | 69 | Brick | 3,500 | \$0 |
| Vermont Technical College, Randolph Center, VT (Admin Ctr) | Offices | 1950 | 65 | Brick/Wood | 15,177 | \$3,391,383 |
| Vermont Technical College, Randolph Center, VT (Judd Hall) | Gymnasium | 1957 | 58 | Brick/Steel | 15,379 | \$4,385,141 |
| Vermont Technical College, Randolph Center, VT (Morrill Hall) | Classrooms/Labs | 1963 | 52 | Brick/Steel | 33,165 | \$8,883,716 |
| Vermont Technical College, Randolph Center, VT (Conant Hall) | Classrooms/Offices | 1964 | 51 | Brick/Steel | 19,018 | \$3,455,061 |
| VTC, 5689 Route 2, Williston, VT 05495 | VT Sandwich Company | 1964 | 51 | Wood Frame | 770 | \$100,000 |
| Vermont Technical College, Randolph Center, VT (Water Tower) | Water Tower | 1965 | 50 | Metal | 1,385 | \$515,000 |
| Vermont Technical College, Randolph Center, VT (Morey Hall) | Dormitory/Cafeteria | 1966 | 49 | Brick/Block | 47,217 | \$9,628,639 |
| Vermont Technical College, Randolph Center, VT (Hartness Library) | Library | 1967 / 2011 | 48 | Brick/Steel | 12,912 | \$3,444,474 |
| Vermont Technical College, Randolph Center, VT (Keenan Hall) | Dormitory | 1967 | 48 | Brick/Block | 33,576 | \$5,918,734 |
| Vermont Technical College, Randolph Center, VT (Main Barn) | Barn/Classroom/offices | 1967 | 48 | Wood Frame | 13,119 | \$1,429,466 |
| Vermont Technical College, Randolph Center, VT (Heifer Barn) | Barn | 1967 | 48 | Wood Frame | 7,922 | \$726,016 |
| Vermont Technical College, Randolph Center, VT (Machinery Shed) | Equipment Barn | 1967 | 48 | Wood Frame | 4,375 | \$384,061 |
| Vermont Technical College, Randolph Center, VT (Sugar House) | Sugarhouse | 1967 | 48 | Wood Frame | 573 | \$32,460 |
| Vermont Technical College, Randolph Center, VT (Silo-Cement) | Silo | 1967 | 48 | Concrete | N/A | \$38,625 |
| Vermont Technical College, Randolph Center, VT (Silo-Fiberglass) | Silo | 1967 | 48 | Fiberglass | N/A | \$38,625 |
| Vermont Technical College, Randolph Center, VT (Silo Shed) | Silo Unloading | 1967 | 48 | Wood Frame | 958 | \$54,271 |
| Vermont Technical College, Randolph Center, VT (Barn - Pole) | Scale Building | 1967 | 47 | Wood Frame | 968 | \$42,873 |
| VTC, 5667 Route 2, Williston, VT 05495 | Vacant | 1968 | 47 | Wood Frame | 1,300 | \$100,000 |
| Vermont Technical College, Randolph Center, VT (Green Hall) | Classrooms/Offices | 1969 | 46 | Brick/Steel | 33,059 | \$6,605,813 |
| Vermont Technical College, Randolph Center, VT (Nutting Hall) | Dormitory | 1969 | 46 | Brick/Block | 40,068 | \$7,422,737 |
| Vermont Technical College, Randolph Center, VT (Boiler Plant/ Maintenance) | Boiler Plant | 1972 | 43 | Brick/Block | 13,800 | \$3,507,305 |
| Vermont Technical College, Randolph Center, VT (President's House) | Residence | 1972 | 43 | Wood Frame | 4,912 | \$664,041 |
| Vermont Technical College, Randolph Center, VT (Generator Building) | Garage | 1976 | 39 | Brick/Block | 892 | \$399,759 |
| Vermont Technical College, Randolph Center, VT (Silo H1 Harvester) | Silo | 1982 | 33 | Steel | N/A | \$128,750 |
| Vermont Technical College, Randolph Center, VT (Silo H2 Harvester) | Silo | 1982 | 33 | Steel | N/A | \$128,750 |
| Blair Park, VTC Site Williston VT Williston (Campus) North | Classrooms | 1986 | 29 | Prengineered Metal | 8,400 | \$501,816 |
| Blair Park, VTC Site Williston VT Williston (Campus) South | Classrooms | 1987 | 28 | Prengineered Metal | 8,400 | \$1,390,706 |
| Blair Park, VTC Site Williston VT Williston (Campus) Easth | Classrooms | 1987 | 28 | Prengineered Metal | 14,600 | \$872,204 |
| Blair Park, VTC Site Williston VT Williston (Campus) West | Classrooms | 1988 | 27 | Prengineered Metal | 14,600 | \$976,234 |
| Vermont Technical College, Randolph Center, VT (Livestock Barn) | Barn | 1988 | 27 | Wood Frame | 3,456 | \$317,701 |
| Vermont Technical College, Randolph Center, VT (Auto Tech) | Classrooms/Labs | 1989 | 26 | Metal | 9,000 | \$1,705,807 |
| Vermont Technical College, Randolph Center, Vt. (44 Water Street) | Student Housing | ? | 25+ | Wood Frame | 2,480 | \$382,000 |
| VTC, Route 66, Randolph Center, VT (VT Tech Enterprise Ctr, Storage Shed#1) | Storage | ? | 25+ | Wood Frame | 192 | \$18,540 |
| VTC, Route 66, Randolph Center, VT (VT Tech Enterprise Ctr, Storage Shed#2) | Storage | ? | 25+ | Wood Frame | 348 | \$37,080 |
| VTC, Route 66, Randolph Center, VT (VT Tech Enterprise Ctr, Storage Shed#3) | Storage | ? | 25+ | Wood Frame | 600 | \$184,844 |
| Vermont Technical College, Norwich Farm, Norwich, Vt. (Mobile Home) | Residence | ? | 25+ | Wood Framed | 924 | \$30,000 |
| Vermont Technical College, Norwich Farm, Norwich, Vt. (Ranch Style House) | Residence | ? | 25+ | Wood Framed | 2,400 | \$250,000 |
| VTC, Route 66, Randolph Center, VT (VT Tech Enterprise Center, bldg #2) | Offices | 1990 | 25 | Wood Frame | 10,802 | \$2,048,225 |
| Vermont Technical College, Randolph Center, VT (SHAPE/Campus Center) | Gymnasium/Pool/Campus Ce | 1990/2007 | 25 | Brick/Steel | 42,603 | \$8,693,776 |
| Vermont Technical College, Randolph Center, VT (Building Trades) | Garage/Lab | 1993 | 22 | Wood/Frame | 2,400 | \$270,375 |
| Vermont Technical College, Randolph Center, VT (Maintenance Storage) | Storage Building | 1993 | 22 | Wood Frame | 2,340 | \$204,867 |
| Vermont Technical College, Randolph Center, VT (Redstone Lease) | Diesel Program | 1993 | 22 | Prengineered Metal | 31,997 | \$0 |

| | V 3 (| s building inve | antory | | | |
|--|------------------------|-----------------|--------------|--------------------|-----------------|---------------|
| 10/20/15 | | | | | | |
| LOCATION DESCRIPTION | Occup/Desc | Year Built | Building Age | CONST | AREA SQ. FT. | BUILDING |
| Vermont Technical College, Randolph Center, VT (Hay Barn) | Barn | 1994 | 21 | Wood Frame | 3,305 | \$289,353 |
| /TC, 72 Helena Drive, Williston, VT | Classroom/ Dorm | 1997/2009/2011 | 18 | Steel/Brick | 18,000 | \$3,525,000 |
| /ermont Technical College, Norwich Farm, Norwich, Vt. (Colonial House) | Residence | 1998 | 17 | Wood Framed | 2,820 | \$340,000 |
| VTC Nusing School at VTC Campus Randolph Center VT | Classrooms | 1999 | 16 | Brick | 5,485 | \$0 |
| /ermont Technical College, Randolph Center, VT (Morrill Addition) | Classrooms | 2000 | 15 | Brick/Steel | 22,000 | \$3,296,000 |
| /ermont Technical College, Randolph Center, VT (Solar Barn) | Barn | 2000 | 15 | Metal/Plastic | 1,000 | \$87,550 |
| /ermont Technical College, Norwich Farm, Norwich, Vt. (Old Barn) | Barn | 2000 | 15 | Wood Framed | 2,040 | \$120,000 |
| /ermont Technical College, Norwich Farm, Norwich, Vt. (Heifer Barn) | Barn | 2000 | 15 | Wood Framed | 4,142 | \$175,000 |
| /ermont Technical College, Norwich Farm, Norwich, Vt. (Sand Shed) | Shed | 2000 | 15 | Wood Framed | 192 | \$20,000 |
| /ermont Technical College, Norwich Farm, Norwich, Vt. (Dry Cow Barn) | Barn | 2000 | 15 | Wood Framed | 2,592 | \$110,000 |
| Vermont Technical College, Norwich Farm, Norwich, Vt. (Dairy Barn) | Barn | 2000 | 15 | Wood Framed | 13,500 | \$825,000 |
| /ermont Technical College, Norwich Farm, Norwich, Vt. (Shop) | Shop | 2000 | 15 | Wood Framed | 2,424 | \$62,000 |
| /ermont Technical College, Randolph Center, VT (Windmill) | Wind Mill | 2003 | 12 | Metal | 1,000 | \$46,350 |
| /ermont Technical College, Randolph Center, Vt (Burn Simulator Building) | Training Facility | 2009 | 6 | Prengineered Metal | 2,750 | \$1,100,000 |
| /TECH Building - 1540 Route 66, Randolph, VT | Office Space | 2010 | 5 | Wood Frame | 8,689 | \$1,553,125 |
| /ermont Technical College, Randolph Center, Vt (Digester Building) | Digester Building | 2014 | 1 | Wood Frame | 4,000 | \$350,000 |
| /ermont Technical College, Randolph Center, Vt (Digester Tank) | Digester Tank | 2014 | 1 | Steel | 1,654 | \$1,300,000 |
| Vermont Technical College, Randolph Center, Vt (Hydrolyzer Tank) | Hydrolyzer Tank | 2014 | 1 | Steel | 472 | \$600,000 |
| Vermont Technical College, Randolph Center, Vt (Effluent Tank) | Effluent Tank | 2014 | 1 | Steel | 472 | \$400,000 |
| | | | | | 624,224 | \$106,526,572 |
| | | | | | | |
| /SC Chancellors Office, 575 Stonecutters Way, Montpelier, Vt | Offices (Leased Space) | 2012 | 3 | Wood Framed | 13,638 | \$1,500,000 |
| /SC Baker Road 1502-1735-1750 Eden, VT | Cabin | ? | 25+ | Wood Framed | 324 | \$15,000 |
| /SC Baker Road 1502-1735-1750 Eden, VT | Cabin | ? | 25+ | Wood Framed | 654 | \$15,000 |
| | | | | | 14,616 | \$1,530,000 |
| | | | | TOTALS | 2,494,865 | \$461,877,454 |
| | | | | | | |
| | | | | | | |

c. Energy Efficiency Initiatives

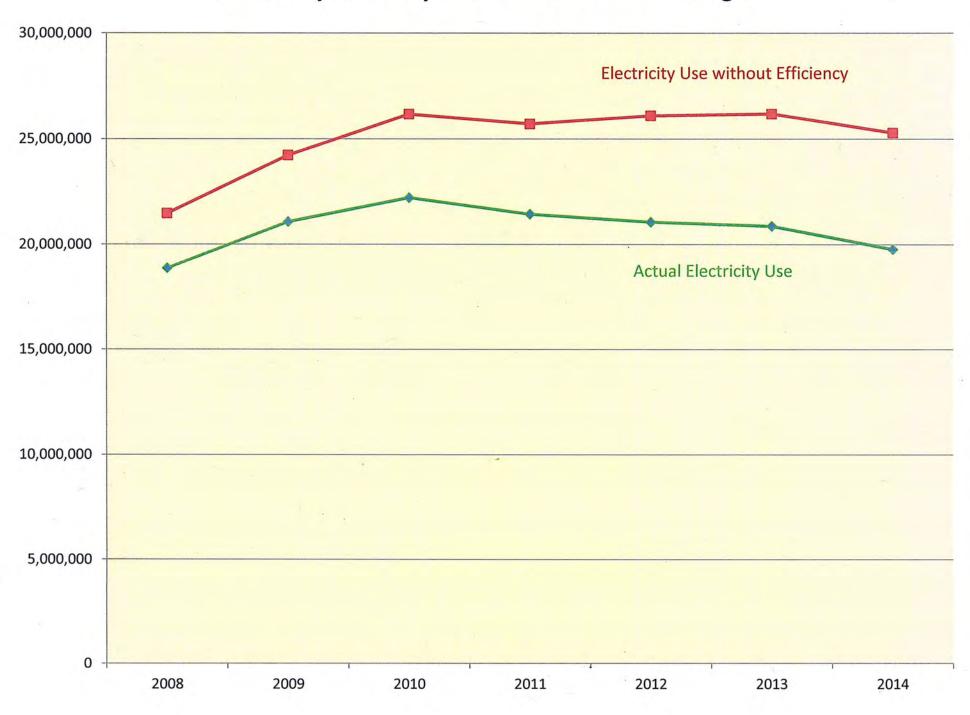
This past summer the VSC and Efficiency Vermont released RFPs for an ASHERA Level I Energy Audit of 13 buildings on four campuses and for a Retrocommissioning Scoping Study of eight buildings on three campuses. Both RFPs were intended to identify low cost energy efficiency projects that would yield a good return on investment (less than seven years). The ASHERA audit focused on building systems such as heating and ventilation, pumps, building controls, and electrical systems. The retro-commissioning study focused on the building control systems of newer buildings and opportunities for operational efficiencies.

We received a good response from the RFPs and two local firms were selected. LN Consulting from Winooski was selected to do the ASHERA Level I Audits and CX Associates from Burlington was selected to complete the Retro–commissioning Scoping Study. We received the draft reports from both firms in early October. Both studies identified a number of low cost projects with acceptable return on investment but they also identified a significant number of projects that would require large investments with low returns. An example of these types of projects would be the complete replacement of building heating, ventilation, and control systems. These results are directly related to the fact that each of the colleges has been working with Efficiency Vermont for many years identifying good projects, implementing them (see attached Efficiency Vermont Impact Investment sheets), and reaping the cost benefits, leaving a disproportionate number of very large and costly mechanical system replacement projects.

A large number of VSC facilities are in the 35- to 50-years-old range; a majority of those buildings are still operating with original heating and ventilation equipment. In most cases this equipment is getting very tired, costly to maintain, and no longer operating efficiently. Coupled with the fact that HVAC system guidelines have changed since these systems were installed, and cannot be modified to meet current standards, our consultants concluded and recommended we begin investing in new HVAC systems so that these buildings can be of service for many more years to come.

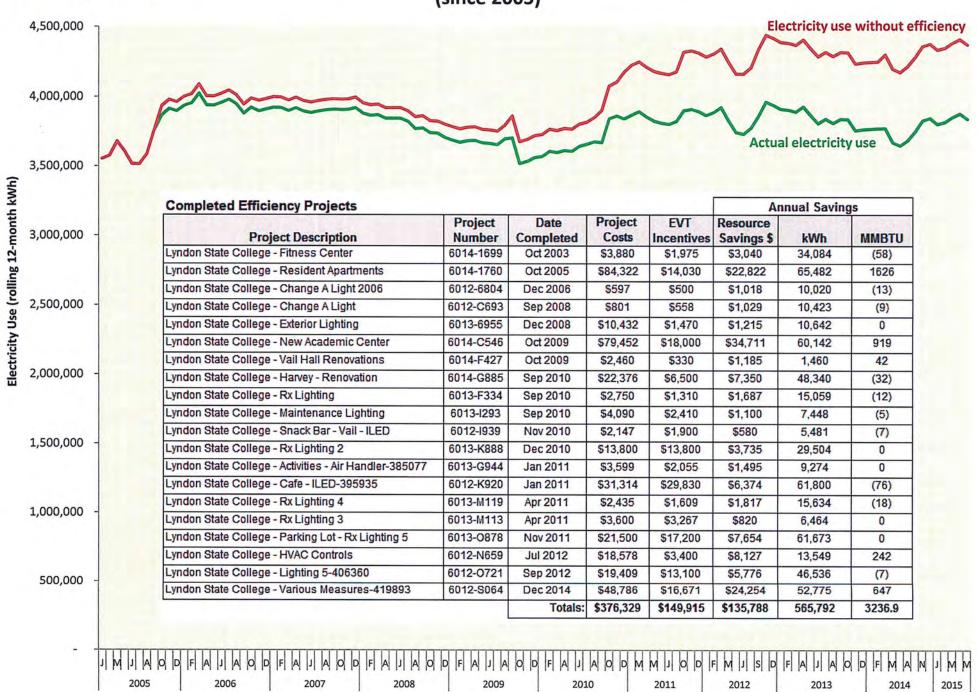
Our next step will be to implement as many of the low cost energy efficiency projects as possible from both studies by using the funding provided by the Green Revolving Fund, and identifying HVAC systems in dire need of replacement while exploring options for funding.

Electricity Consumption - Vermont State Colleges





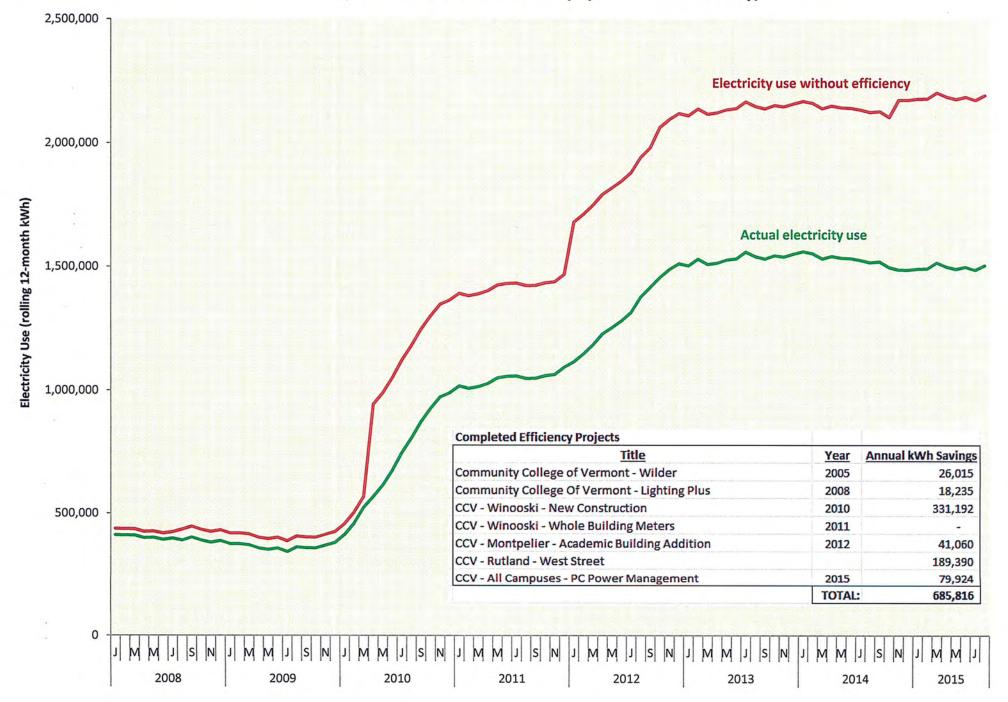
Lyndon State - Impact of Efficiency Investments (since 2005)





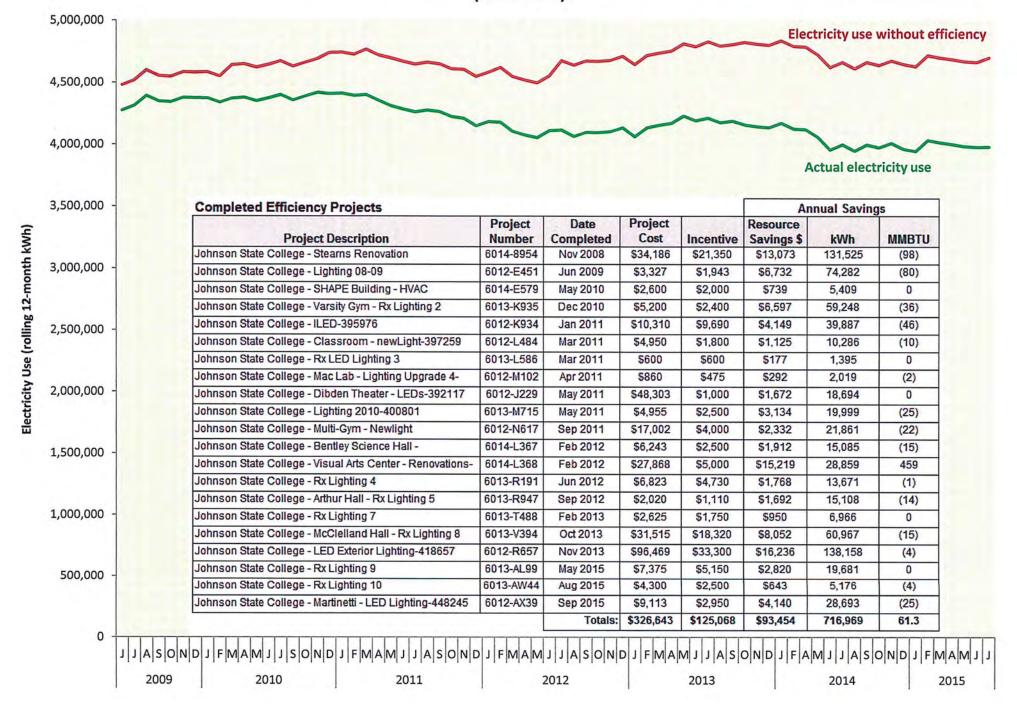
Community College of Vermont - Impact of Efficiency Investments

(since 2008, sites where CCV pays electric bill directly)



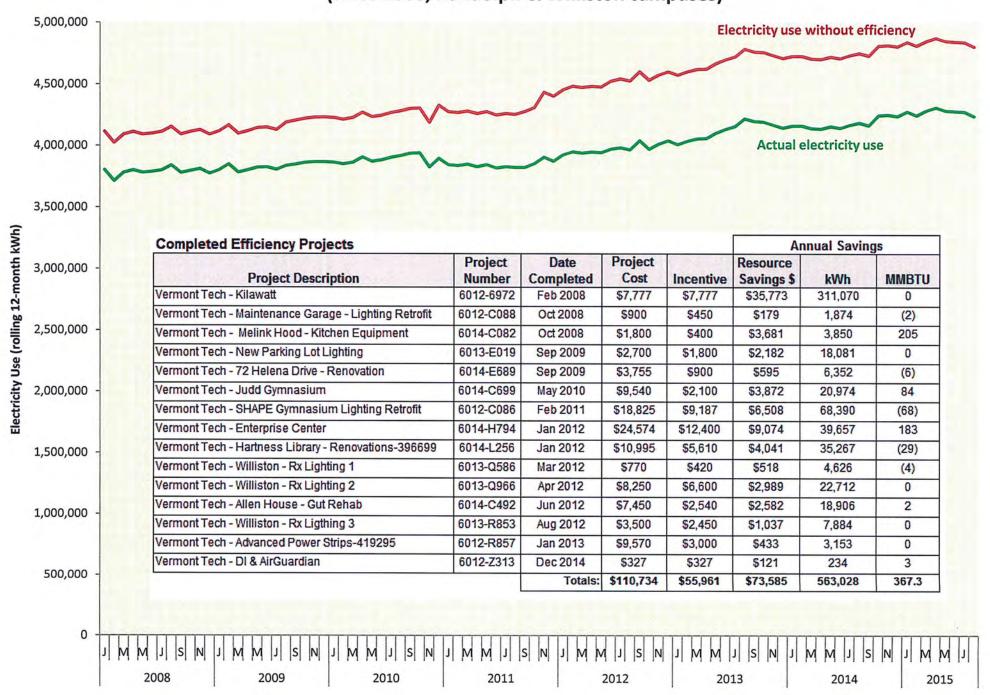
Johnson State - Impact of Efficiency Investments (since 2008)







Vermont Technical College - Impact of Efficiency Investments (since 2008, Randolph & Williston campuses)



Castleton University - Impact of Efficiency Investments

Efficiency Vermont

(since 2008, including Spartan Arena)

| | Project Description | Project Number | Date Completed | Project Cost | Incentive | Resource Savings \$ | kWh | ммвти | Elec |
|------------|---|-------------------|-------------------|-----------------|-----------|------------------------|-----------|--------|-------|
| | Castleton State College - Energy Star Dishwasher | 6013-B975 | Feb 2008 | \$16,525 | \$1,000 | 1,465 | 12.950 | 100 | L |
| ,000,000 - | Castleton State College - Academic Center & Library | 6012 7873 | Aug 2008 | \$13,586 | 15,400 | \$18,949 | 70,539 | 848 | wit |
| | Castleton State College - Jeffords Science Phase 1 | 6014-7623 | Aug 2000 | \$13 295 | \$3,500 | \$6,040 | 52,953 | 55 | effic |
| | Castleton State College - Stage Shop Lighting | 6012-0070 | Sep 2008 | \$6,479 | \$2,500 | \$1,641 | 18,284 | (17) | |
| | Castleton State College - Jeffords Science Phase 2 | 6012-D087 | Oct 2008 | \$4,240 | \$2,208 | \$496 | 4,344 | (2) | 1 0-4 |
| 117.112 | Castleton State College - Campus Cepter - New | 6014-B986 | De 2009 | \$72,799 | \$25,000 | \$28,990 | 220 502 | 738 | Act |
| ,000,000 - | Castleton State College - Gymnasiug Addition | 6014-B988 | Dec 2003 | \$32,741 | \$10,000 | \$14,479 | 87,786 | 261 | elect |
| | Castleton orate College - Spattan Otackum | 6014-E113 | Dec 2009 | \$14,618 | \$3,000 | \$5,228 | 49,742 | (3) | us |
| | eton State College - Leavenworth - New Construction | 6014-E769 | Mar 2010 | \$11,155 | \$5,584 | \$4,067 | 35,581 | 17 | |
| | Spartan Arena - Operational Changes | 6012-G783 | Apr 2010 | \$1 | \$0 | \$3,195 | 29,296 | 0 | 1 |
| ,000,000 - | Spartan Arena - Lighting Plus-384844 | 6021-G861 | Jun 2010 | \$28,469 | \$24,275 | \$3,369 | 31,741 | (34) | 1 |
| | Castleton State College - Pole Light Retrofit | 6012-F570 | Jul 2010 | \$3,108 | \$1,260 | \$3,302 | 50,535 | 0 | 1 |
| | Spartan Arena - Parking Lot - Lighting Plus-387133 | 6021-H613 | Aug 2010 | \$15,181 | \$13,972 | \$1,211 | 9,897 | (0) | 1 |
| | Castelton State College - 360 South St - Rx LED Lighting 1 | 6013-J374 | Dec 2010 | \$900 | \$900 | \$268 | 2,120 | 0 | 1 |
| | Castleton State College - ILED | 6012-K249 | Dec 2010 | \$276 | \$258 | \$119 | 1,144 | (1) | 1 |
| ,000,000 - | Castleton State College - ILED 2-396535 | 6012-L167 | Jan 2011 | \$8,042 | \$7,690 | \$5,214 | 35,319 | (33) | 1 |
| | Castleton State College - Spartan Arena - Mezzanine- | 6014-L266 | May 2011 | \$2,765 | \$1,750 | \$1,931 | 16,266 | (19) | 1 |
| | Castleton State College - Walk-in Cooler-399158 | 6013-M184 | Sep 2011 | \$1,872 | \$1,270 | \$1,169 | 9,247 | (6) | ì |
| | Castleton State College - Commuter Parking Lot LED- | 6013-M189 | Nov 2011 | \$18,000 | \$11,100 | \$2,699 | 33,602 | 0 | 1 |
| ,000,000 - | Castleton State College - Ellis Hall - HRV-402520 | 6013-N368 | Nov 2011 | \$20,220 | \$2,500 | \$9,990 | 338 | 526 | 1 |
| ,000,000 | Castleton State College - Dorm Metering And Competitions | 6012-C251 | Feb 2012 | \$500 | \$500 | \$0 | 0 | 0 | 1 |
| | Castleton State College - Physical Plant - Rx Lighting 2 | 6013-Q587 | Mar 2012 | \$1,640 | \$1,413 | \$951 | 8,488 | (8) | 1 |
| | Castleton State College - 2012 - Facilities Barn | 6014-H751 | Mar 2012 | \$33,447 | \$7,500 | \$11,230 | 48,494 | 193 | 1 |
| | Castleton State College - Jeffords Science - Newlight | 6012-0492 | Mar 2012 | \$1,662 | \$1,600 | \$1,017 | 10,995 | (9) | 1 |
| ,000,000 - | Castleton State College - Glenbrook Gym - Rx HVAC 1 | 6013-5041 | Sep 2012 | \$1,668 | \$750 | \$508 | 3,864 | 0 | 1 |
| | Castleton State College - 2012 - Dorm | 6014-H750 | Sep 2012 | \$56,504 | \$12,000 | \$16,129 | 136,226 | (84) | 1 |
| | Castleton State College - Ellis Hall - Rx Lighting 3-421664 | 6013-5663 | Nov 2012 | \$9,000 | \$8,550 | \$614 | 4,897 | (1) | |
| | Castleton State College - Spartan Arena - H2O Vortex & | 6012-0893 | Dec 2012 | \$26,164 | \$6,262 | \$8,780 | 33,338 | 208 | |
| ,000,000 - | Castleton State College - Shape Gym - Rx Lighting 4 | 6013-T323 | Feb 2013 | \$5,010 | \$3,150 | \$2,876 | 23,586 | (19) | 1 |
| ,500,000 | Castleton State College - Huden Hall - Lighting & HVAC- | 6014-U150 | Dec 2013 | \$7,635 | \$2,545 | \$2,905 | 22,566 | (9) | 1 |
| | Castleton State College - Leavenworth - Relight & HVAC- | 6013-T215 | Dec 2013 | \$19,855 | \$3,928 | \$3,557 | 29,509 | (24) | 1 |
| | Castleton State College - Exterior LEDs-435520 | 6012-X604 | Oct 2014 | \$28,937 | \$23,776 | \$5,699 | 60,235 | 16 | |
| | | | Totals: | \$476,294 | \$195,141 | \$168,087 | 1,154,471 | 2443.2 | 1 |

Electricity Use (rolling 12-month kWh)

d. Roof Study

The following spreadsheet lists the building roofs within the VSC system in descending order of age. Also illustrated are the square footages of the roofs, type of roofing, and the estimated cost of replacement for asphalt shingle and membrane roofs 20 years and older.

VSC Roof Inventory

| Campus | Roof | Install Date | Age | Roofing Type | Approx Area Square Feet | Est. Replacement Cost |
|------------------------------|----------------------------------|---------------------|----------|----------------------------|----------------------------|--------------------------|
| Vermont Tech | Farm Machinery Shed | 1960 | 55 | Alum. Sheet | 4,800 | |
| Vermont Tech Lyndon State | Farm Upper Barn Maintenance Shop | 1960 1/2 in 1972 | 55 43 | Alum. Sheet Sheet Metal | 8,500 6,100 | \$38,250.00 |
| Lyndon State | Brown House | 1976 | 39 | Metal Sheet | 2,200 | |
| Castleton State | Wright House | 1978 | 37 | Asphalt Shingle | 900 | \$5,850.00 |
| Johnson State | Arthur's Dorm | 1980 | 35 | Membrane | 6,100 | \$55,100.00 |
| Castleton State | Fine Arts South low roof | 1981 | 34 | Membrane | 8,600 | \$150,000.00 |
| Castleton State | Fine Arts High Roofs | 1981 | 34 | Membrane | 9,300 | \$160,000.00 |
| Johnson State | Dibden Theatre roof | 1983 | 32 | Membrane | 16,000 | \$145,600.00 |
| Vermont Tech | Judd Hall | 1983 | 32 | Membrane | 16,000 | \$145,600.00 |
| Johnson State | College Apts (2 units) | 1983 | 32 | Asphalt Shingles | 3,600 | \$23,400.00 |
| Lyndon State | Green Storage Shed | 1983 | 32 | Sheet Metal | 6,000 | . , |
| Lyndon State | Bus Garage | 1983 | 32 | Sheet Metal | 1,500 | |
| Castleton State | Woodruff Hall | 1984 | 31 | Membrane | 9,900 | \$90,090.00 |
| Castleton State | Wright House | 1900 | 30+ | Slate | | |
| Castleton State | Moritary | unavailable | 30+ | Standing Seam | 1,400 | |
| Castleton State | Public Safety | unavailable | 30+ | Slate | 3,000 | |
| Castleton State | Public Safety | unavailable | 30+ | Asphalt Shingles | 1,000 | \$6,500.00 |
| Johnson State | Duranleau House | unavailable | 30+ | Sheet Metal | 2,500 | |
| Johnson State | Duranleau Barn | unavailable | 30+ | Sheet Metal | 2,000 | |
| Lyndon State | Gray House | Unknown | 30+ | Asphalt Shingles | 1,500 | \$9,750.00 |
| Castleton State | Old Chapel | 1987 | 28 | Sheet Metal | 2,800 | ,,,,,,,,, |
| Castleton State | Old Chapel Addition | 1987 | 28 | Sheet Metal | 600 | |
| Vermont Tech | Building 200 | 1988 | 27 | Membrane | 16,500 | \$150,150.00 |
| Vermont Tech | Old Dorm Porch roof | 1989 | 26 | Membrane | 300 | \$2,730.00 |
| Johnson State | Shape High roof | 1989 | 26 | Membrane | 33,500 | \$304,850.00 |
| Vermont Tech | Auto Tech Main Building | 1989 | 26 | Sheet Metal | 00,000 | ψου 1,000.00 |
| Vermont Tech | Auto Tech Porch Entry | 1989 | 26 | Membrane | 300 | \$2,730.00 |
| Vermont Tech | Norwich 2nd House / Garage | unavailable | 25+ | Shingles | 2,500 | \$16,250.00 |
| Vermont Tech | VTEC Lower Building | 1990 | 25 | Asphalt Shingles | 7,000 | \$45,500.00 |
| Vermont Tech | VTEC Storage Building | 1990 | 25 | Metal | 1,500 | * 10,000.00 |
| Lyndon State | Wheelock | 1991 | 24 | Membrane | 6,800 | \$61,880.00 |
| Castleton State | Presidents House | 1991 | 24 | Asphalt Shingles | 3,000 | \$19,500.00 |
| Vermont Tech | Maintnenace | 1991 | 24 | Standing Seam | 2,600 | . , |
| Vermont Tech | Morrill Hall | 1991 | 24 | Membrane | 33,500 | \$304,850.00 |
| Vermont Tech | Hartness Library | 1992 | 23 | Membrane | 15,000 | \$136,500.00 |
| Vermont Tech | Green Lab Low roof | 1992 | 23 | Membrane | 2,000 | \$18,200.00 |
| Lyndon State | Maintenance Shop | 1/4 in 1992 | 23 | Sheet Metal | 3,050 | . , |
| Vermont Tech | President's House | 1992 | 23 | Cedar Shingles | 3,500 | |
| Vermont Tech | Auto Tech 1st Addition | 1992 | 23 | Sheet Metal | | |
| Vermont Tech | Old Dorm East Wing roof | 1993 | 22 | Membrane | 2,500 | \$22,750.00 |
| Vermont Tech | Conant | 1993 | 22 | Membrane | 9,000 | \$81,900.00 |
| Vermont Tech | Hay Barn | 1994 | 21 | Standing Seam | 3,500 | |
| Vermont Tech | Langevin Conf. Ctr. | 1994 | 21 | Standing Seam | 2,800 | |
| Vermont Tech | Morrill Annex | 1994 | 21 | Membrane | 7,500 | \$68,250.00 |
| Vermont Tech | Building 5667 | unavailable | 20+ | Asphalt Shingles | 1,500 | \$9,750.00 |
| Vermont Tech | Building 5689 | unavailable | 20+ | Asphalt Shingles | 1,500 | \$9,750.00 |
| Vermont Tech | VTEC Storage Shed #1 | unavailable | 20+ | Metal | 250 | |
| Vermont Tech | VTEC Storage Shed #2 | unavailable | 20+ | Metal | 500 | |
| Johnson State | Brown Storage Barn | unavailable | 20+ | Sheet Metal | 1,500 | |
| Johnson State | Vehicle Storage Barn | unavailable | 20+ | Sheet Metal | 3,500 | |
| | | | | | Estimated Total | \$2,085,680.00 |
| Lyndon State | Maintenance Shop | 1/4 in 1995 | 20 | Sheet Metal | 3,050 | |
| Lyndon State | Library Acad Ctr. | 1995 | 20 | Membrane | 17,500 | |
| Johnson State | Governors South | 1995 | 20 | Membrane | , | |
| Johnson State | LLC | 1996 | 19 | Membrane | 18,000 | |
| Johnson State | LLC | 1996 | 19 | Standing Seam | . 2,300 | |
| | Nutting House | 1996 | 19 | Asphalt Shingles | 2,600 | |
| Vermont Tech | • | 1996 | 19 | Asphalt Shingles | 12,500 | |
| Vermont Tech Vermont Tech | Shape Gvill 1001 | | | | | |
| Vermont Tech | Shape Gym roof Main Barn | | | | | |
| Vermont Tech Vermont Tech | Main Barn | 1996 | 19 | Standing Seam | 14,000 | |
| Vermont Tech | | | | | | |

| 1 | December 11 | 4007 | 40 | A colonia Objection | 0.000 |
|-----------------|-----------------------------|-------------|-----|---------------------|--------|
| Lyndon State | President's House | 1997 | 18 | Asphalt Shingles | 2,800 |
| Lyndon State | President's | 1997 | 18 | Asphalt Shingles | 500 |
| Vermont Tech | Green Lab High roof | 1998 | 17 | Membrane | |
| Lyndon State | Stevens Dining | 1998 | 17 | Asphalt Shingles | 14,000 |
| Vermont Tech | Norwich Farm House / Garage | 1998 | 17 | Standing Seam | 2,800 |
| Johnson State | Governors North | 1999 | 16 | Membrane | |
| Johnson State | Govervors Link Connector | 1999 | 16 | Membrane | |
| Johnson State | Bentley Hall | 1999 | 16 | Membrane | 11,800 |
| Castleton State | Huden Hall | 1999 | 16 | Membrane | 1,700 |
| Lyndon State | Activities High roof | 1999 | 16 | Membrane | 50,000 |
| Castleton State | Stafford Building | 1999 | 16 | Membrane | |
| Castleton State | Calvin Coolige Lib. | 1999 | 16 | Membrane | 27,800 |
| Vermont Tech | Norwich Mobile Home | unavailable | 15+ | Metal | 1,050 |
| Johnson State | Senators North | 2000 | 15 | Membrane | 11,800 |
| Johnson State | Senators South | 2000 | 15 | Membrane | 11,000 |
| Johnson State | Senators Link Connector | 2000 | 15 | Membrane | |
| Lyndon State | Activities Low roof | 2000 | 15 | Membrane | 25,500 |
| Vermont Tech | Green Office Area roof | 2000 | 15 | Membrane | 25,500 |
| | | | | | |
| Vermont Tech | Morrill Addition | 2000 | 15 | Rubber Shingles | |
| Vermont Tech | Morrill Terrace roof | 2000 | 15 | Membrane | |
| Lyndon State | Whitelaw | 2000 | 15 | Membrane | 4,700 |
| Lyndon State | Crevecoeur | 2000 | 15 | Membrane | 4,700 |
| Castleton State | Woodruff Hall | 2000 | 15 | Membrane | 9,900 |
| Vermont Tech | Norwich Dairy Barn | 2000 | 15 | Standing Seam | 16,200 |
| Vermont Tech | Norwich Repair Shop | 2000 | 15 | Standing Seam | 1,450 |
| Vermont Tech | Norwich Dry Cow Barn | 2000 | 15 | Standing Seam | 3,420 |
| Vermont Tech | Norwich Heifer Barn | 2000 | 15 | Standing Seam | 3,240 |
| Vermont Tech | Norwich Sand Shed | 2000 | 15 | Standing Seam | 225 |
| Vermont Tech | Norwich Calf Barn | 2000 | 15 | Standing Seam | 2,600 |
| Lyndon State | Vail | 2001 | 14 | Membrane | 18,000 |
| Lyndon State | Arnold | 2001 | 14 | Membrane | 4,700 |
| Lyndon State | Bayley | 2001 | 14 | Membrane | 4,700 |
| • | Rogers | 2001 | 14 | Membrane | 4,700 |
| Lyndon State | | | 14 | | |
| Lyndon State | Poland | 2001 | | Membrane | 4,700 |
| Castleton State | Glenbrook Gym. | 2001 | 14 | Membrane | 21,900 |
| Castleton State | Superior Boiler | 1991 | 14 | Membrane | 2,300 |
| Johnson State | McClelland High Roof | 2001 | 14 | Membrane | |
| Johnson State | McClelland Low Roof | 2001 | 14 | Membrane | |
| Johnson State | Martinetti High roof | 2002 | 13 | Membrane | |
| Johnson State | Martinetti Low roof | 2002 | 13 | Membrane | |
| Vermont Tech | Red School Flat roof | 2002 | 13 | Membrane | 1,600 |
| Castleton State | Science North Wing | 2002 | 13 | Membrane | 6,600 |
| Vermont Tech | Livestock Barn | 2003 | 12 | Standing Seam | 3,800 |
| Castleton State | Leavenworth | 2003 | 12 | Membrane | 9,800 |
| Johnson State | College Apts (1 unit) | 2003 | 12 | Asphalt Shingles | 1,800 |
| Vermont Tech | Green Classroom | 2003 | 12 | Membrane | |
| Vermont Tech | Generator Bld. | 2003 | 12 | Standing Seam | 1,200 |
| Vermont Tech | Auto Tech Trades Addition | 2003 | 12 | Standing Seam | , |
| Castleton State | Wheeler Res. Hall | 2003 | 12 | Membrane | 6,600 |
| Castleton State | Morrill Res. Hall | 2003 | 12 | Membrane | 6,600 |
| Johnson State | College Apts (2 units) | 2004 | 11 | Asphalt Shingles | 3,600 |
| Castleton State | Ellis Hall | 2004 | 11 | Membrane | 9,300 |
| CCV | Upper Valley | 2004 | 11 | Asphalt Shingles | 9,400 |
| | | | | , • | |
| Lyndon State | Rita Bole - A Building | 2004 | 11 | Membrane | 3,900 |
| Lyndon State | Rita Bole - B Building | 2004 | 11 | Membrane | 5,500 |
| Lyndon State | Rita Bole - C Building | 2004 | 11 | Membrane | 5,500 |
| Johnson State | Stearns Hall | 2004 | 11 | Standing Seam | 8,500 |
| | | | | | |
| | | | | | |
| Castleton State | Castleton Hall | 2005 | 10 | Membrane | 45,000 |
| Johnson State | Dewey Hall | 2005 | 10 | Membrane | 15,000 |
| Vermont Tech | Shape Pool roof | 2005 | 10 | Asphalt Shingles | 12,500 |
| Vermont Tech | Building 100 | 2006 | 9 | Membrane | 8,600 |
| Johnson State | College Apts (2 units) | 2006 | 9 | Asphalt Shingles | 3,600 |
| Castleton State | Babcock Res. Hall | 2006 | 9 | Membrane | 8,000 |
| Castleton State | Res House #1 | 2006 | 9 | Asphalt shingles | 5,000 |
| Castleton State | Res House #2 | 2006 | 9 | Asphalt shingles | 5,000 |
| Castleton State | Res House #3 | 2006 | 9 | Asphalt shingles | 5,000 |
| Castleton State | Huden Hall | 2007 | 8 | Asphalt shingles | 12,700 |
| Johnson State | Presidents House | 2007 | 8 | Standing Seam | 2,000 |
| Vermont Tech | Keenan A - Wing | 2007 | 8 | Asphalt Shingles | 2,000 |
| Vermont Tech | Keenan B - Wing | 2007 | 8 | Asphalt Shingles | |
| Vermont Tech | Keenan C - Wing | 2007 | 8 | Asphalt Shingles | |
| Vermont Tech | Campus Ctr. | 2007 | 8 | Membrane | 13,000 |
| VOLUMONIC TOOM | σαπρασ στι. | 2001 | U | WOIIDIANG | 13,000 |
| | | | | | |

| Casileton State | | | | | | |
|---|-----------------|----------------------|------------------|---|------------------|--------|
| Castleton State | Castleton State | Science North Wing | 2007 | 8 | Membrane | 11,000 |
| Castleton State | Castleton State | Science Lecture Hall | 2007 | 8 | Standing Seam | 3,700 |
| Lyndon State | Castleton State | Science Connector | 2008 | 7 | Membrane | 600 |
| Lyndon State | Castleton State | Stadium | 2009 | 6 | Asphalt shingles | 4,500 |
| Vérmont Tech Red School Side roofs 2009 6 Asphalt Shingles 1,400 Castleton State SHAPE 2009 6 Membrane 23,600 Castleton State Athletic Facility 2009 6 Membrane 15,000 Castleton State Campus Center 2009 6 Membrane 12,600 Castleton State Campus Center 2009 6 Membrane 12,600 Lyndon State Carpus Center 2009 6 Membrane 12,600 Lyndon State All Amaria 2010 5 Asphalt Shingles 14,400 Lyndon State Administrative Ctr. 2010 5 Standing Seam 10,700 Vermont Tech Old Dorm Main Bidg. 2010 5 Standing Seam 7,200 CCV Wincoski 2010 5 Standing Seam 7,200 CCV Wincoski 2010 5 Standing Seam 7,200 Castleton State Physical Plant Shop Area 2011 4 < | Lyndon State | ASAC Building | 2009 | 6 | | 7,348 |
| Vermont Tech Red School Side roofs 2009 6 Asphall Shingles 1,400 Castleton State Althelic Facility 2009 6 Membrane 12,600 Castleton State Althelic Facility 2009 6 Membrane 12,600 Castleton State Campus Center 2009 6 Standing Seam 1,740 Johnson State College Apts (8 units) 2010 5 Asphalt Shingles 14,400 Lyndon State Harvey Acad. Ctr. 2010 5 Asphalt Shingles 11,000 Vermont Tech Old Dorm Main Bidg. 2010 5 Standing Seam 10,000 Vermont Tech Old Dorm Main Bidg. 2010 5 Standing Seam 7,200 CCV Wincoski 2010 5 Standing Seam 7,200 CCV Wincoski 2010 5 Standing Seam 7,200 CCV Wincoski 2010 5 Standing Seam 7,200 Castleton State Physical Plant Storage Barn 2011 <td>Lyndon State</td> <td>ASAC Building</td> <td>2009</td> <td>6</td> <td>Standing Seam</td> <td>7,628</td> | Lyndon State | ASAC Building | 2009 | 6 | Standing Seam | 7,628 |
| Castleton State SHAPE 2009 6 Membrane 15,000 Castleton State Campus Center 2009 6 Membrane 12,600 Castleton State Campus Center 2009 6 Membrane 12,600 Johnson State College Apts (8 units) 2010 5 Asphalt Shingles 14,400 Lyndon State Harvey Acad. Ctr. 2010 5 Membrane 17,000 Vermont Tech Administrative Ctr. 2010 5 Saphalt Shingles 11,000 Vermont Tech Old Dorm Main Bidg. 2010 5 Standing Seam 10,700 Johnson State Maintenance Shop 2010 5 Standing Seam 10,700 CCV Winooski 2010 5 Standing Seam 10,700 CCV Winooski 2010 5 Standing Seam 10,700 CCV Winooski 2010 5 Standing Seam 12,000 Castleton State Physical Plant Storage Barn 2011 4 | | | 2009 | 6 | | 1.400 |
| Castleton State | | | | | | |
| Castleton State | Castleton State | Athletic Facility | 2009 | 6 | Membrane | , |
| Castleton State | | | | | | |
| Johnson State | | | | | | , |
| Lyndon State | | · | | | • | • |
| Vérmont Tech Administrative Ctr. 2010 5 Asphalt Shingles 11,000 Vermont Tech Old Dorm Main Bldg. 2010 5 Standing Seam 10,700 Johnson State Maintenance Shop 2010 5 Standing Seam 7,200 CCV Wincoski 2010 5 Standing Seam 7,200 CCV Wincoski 2011 4 Asphalt shingles 5,200 Castleton State Physical Plant Storape Barn 2011 4 Sheet Metal 13,000 Castleton State Physical Plant Storape Barn 2011 4 Sheet Metal 1,800 Lyndon State Activities Elevator Addition 2011 4 Membrane 300 Vermont Tech Building 400 2011 4 Membrane 14,500 Johnson State VAC Core 2011 4 Membrane 3,200 Johnson State VAC Overt Addition 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011< | | | | | | • |
| Vermont Tech | • | • | | | | |
| Johnson State | | | | | , , | , |
| CCV Winooski 2010 5 Membrane 13,100 Castleton State Physical Plant Office 2011 4 Asphalts shingles 5,200 Castleton State Physical Plant Storage Barn 2011 4 Sheet Metal 13,000 Lyndon State Activities Elevator Addition 2011 4 Membrane 300 Vermont Tech Building 700 2011 4 Membrane 6,400 Vermont Tech Building 400 2011 4 Membrane 14,500 Johnson State VAC Core 2011 4 Membrane 3,200 Johnson State VAC Core 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011 4 Standing Seam 3,200 Vermont Tech VTEC Upper Building 2011 4 Standing Seam 3,200 CCV Montpelier Building A 2011 4 Asphalt Shingles 7,500 CCV Montpelier Building A 2011 4 | | | | | | • |
| Castleton State Physical Plant Office 2011 4 Asphalt shingles 5.200 Castleton State Physical Plant Shop Area 2011 4 Sheet Metal 13,000 Castleton State Physical Plant Storage Barn 2011 4 Sheet Metal 1,800 Lyndon State Activities Elevator Addition 2011 4 Membrane 6,400 Vermont Tech Building 400 2011 4 Membrane 14,500 Johnson State VAC Core 2011 4 Membrane 3,200 Johnson State VAC Oore 2011 4 Standing Seam 3,200 Johnson State VAC North Addition 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011 4 Standing Seam 3,200 CCV Montpelier Building 2011 4 Asphalt Shingles 7,500 CCV Montpelier Building | | | | | | • |
| Castleton State Physical Plant Storage Barn 2011 4 Sheet Metal 13,000 Castleton State Physical Plant Storage Barn 2011 4 Sheet Metal 1,800 Lyndon State Activities Elevator Addition 2011 4 Membrane 6,400 Vermont Tech Building 400 2011 4 Membrane 14,500 Johnson State VAC Inner Core 2011 4 Membrane 14,500 Johnson State VAC Over 2011 4 Membrane 3,200 Johnson State VAC Worth Addition 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011 4 Standing Seam 3,200 Vermont Tech VTEC Upper Building 2011 4 Standing Seam 3,200 CCV Montpelier Building A 2011 4 Asphalt Shingles 7,500 CCV Montpelier Building B 2012 3 Asphalt Shingles 7,500 CV Mortpelier Building C | | | | | | , |
| Castleton State Physical Plant Storage Barn 2011 4 Sheet Metal 1,800 Lyndon State Activities Elevator Addition 2011 4 Membrane 300 Vermont Tech Building 700 2011 4 Membrane 6,400 Johnson State VAC Inner Core 2011 4 Membrane Johnson State VAC Core 2011 4 Standing Seam 3,200 Johnson State VAC Worth Addition 2011 4 Standing Seam 3,200 Johnson State VAC Worth Addition 2011 4 Standing Seam 3,200 Johnson State VAC Worth Addition 2011 4 Standing Seam 3,200 Johnson State VAC Worth Addition 2011 4 Standing Seam 3,200 Johnson State VAC Worth Addition 2011 4 Standing Seam 3,200 Johnson State VAC Worth Addition 2011 4 Asphalt Shingles 3,600 CCV Montpelier Building 2012 | | • | | | | , |
| Lyndon State | | , | | | | • |
| Vermont Tech Building 700 2011 4 Membrane 6,400 Vermont Tech Building 400 2011 4 Membrane 14,500 Johnson State VAC Core 2011 4 Membrane Johnson State VAC Over 2011 4 Standing Seam 3,200 Johnson State VAC North Addition 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011 4 Standing Seam 3,200 Johnson State VAC West Addition 2011 4 Standing Seam 3,200 Vermont Tech VTEC Upper Building A 2011 4 Standing Seam 3,200 CCV Montpelier Building A 2011 4 Asphalt Shingles 7,500 CCV Montpelier Building B 2012 3 Asphalt Shingles 7,500 CCV Montpelier Building C 2012 3 Asphalt Shingles 7,500 CCV Montpelier Building C 2012 3 Asphalt Shingl | | , | | | | • |
| Vermont Tech Building 400 2011 4 Membrane 14,500 Johnson State VAC Inner Core 2011 4 Membrane Johnson State VAC Core 2011 4 Standing Seam 3,200 Johnson State VAC Word Addition 2011 4 Standing Seam 3,200 Vermont Tech VTEC Upper Building 2011 4 Standing Seam 3,200 Vermont Tech VTEC Upper Building A 2011 4 Standing Seam 3,200 CCV Montpelier Building B 2012 3 Asphalt Shingles 3,600 CCV Montpelier Building B 2012 3 Asphalt Shingles 7,500 CCV Montpelier Building C 2012 3 Asphalt Shingles 8,300 Vermont Tech Allen House 2012 3 Asphalt Shingles 8,300 Castleton State Pavilion 2012 3 Asphalt Shingles 8,300 Castleton State Adams Res. Hall 2012 3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | |
| Johnson State | | | | | | • |
| Johnson State | | | | | | 14,500 |
| Johnson State | | | | | | 2 200 |
| Johnson State VAC West Addition 2011 4 Standing Seam 3,200 | | | | - | | • |
| Vermont Tech VTEC Upper Building 2011 4 Standing Seam CCV Montpelier Building A 2011 4 Asphalt Shingles 3,600 CCV Montpelier Building B 2012 3 Asphalt Shingles 7,500 CCV Montpelier Building C 2012 3 Asphalt Shingles 7,500 Castleton State Pavilion 2012 3 Asphalt Shingles 8,300 Vermont Tech Allen House 2012 3 Asphalt Shingles 8,300 Vermont Tech Allen House 2012 3 Asphalt Shingles 8,300 Vermont Tech Allen House 2012 3 Asphalt Shingles 8,300 Vermont Tech Allen House 2012 3 Membrane 43,800 Castleton State Hoff Hall 2012 3 Membrane 6,500 Vermont Tech Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Morey Dirning roof 2013 2 Membrane <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> | | | | | | , |
| CCV Montpelier Building A 2011 4 Asphalt Shingles 3,600 CCV Montpelier Building B 2012 3 Asphalt Shingles 7,500 CCV Montpelier Building C 2012 3 Asphalt Shingles 7,500 Castleton State Pavilion 2012 3 Asphalt Shingles 7,500 Castleton State Allen House 2012 3 Asphalt Shingles 7,500 Castleton State Allen House 2012 3 Asphalt Shingles 7,500 Castleton State Allen House 2012 3 Asphalt Shingles 8,300 Castleton State Allen House 2012 3 Asphalt Shingles 8,300 Castleton State Allen House 2012 3 Membrane 43,800 Castleton State Haskell Res. Hall 2012 3 Membrane 43,800 Castleton State Haskell Res. Hall 2013 2 Membrane 43,800 Vermont Tech Morey Dorm 2013 | | | | | | 3,200 |
| CCV Montpeller Building B 2012 3 Asphalt Shingles 7,500 CCV Montpeller Building C 2012 3 Asphalt Shingles 7,500 Castleton State Pavilion 2012 3 Asphalt Shingles 8,300 Vermont Tech Allen House 2012 3 Standing Seam 3,000 Castleton State Adams Res. Hall 2012 3 Membrane 43,800 Castleton State Hoff Hall 2012 3 Membrane 6,500 Vermont State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane 6,500 Vermont Tech Morey Dorm 2013 2 Membrane 2012 Vermont Tech Morey Kitchen roof 2013 2 Membrane 2012 Vermont Tech Morey Kitchen roof 2013 2 Membrane 8,600 Vermont Tech Nutting Core 2015 0 Membrane | | 11 | | | | 0.000 |
| CCV Montpelier Building C 2012 3 Asphalt Shingles 7,500 Castleton State Pavilion 2012 3 Asphalt shingles 8,300 Vermont Tech Allen House 2012 3 Standing Seam 3,000 Castleton State Adams Res. Hall 2012 3 Membrane Castleton State Hoff Hall 2012 3 Membrane Castleton State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane 6,500 Vermont Tech Morey Dorm 2013 2 Membrane 2015 Vermont Tech Morey Dining roof 2013 2 Membrane 2015 Vermont Tech Morey Kitchen roof 2013 2 Membrane 8,600 Vermont Tech Morey Kitchen roof 2013 2 Membrane 8,600 Vermont Tech Nutting Core 2015 0 Membrane 14,500 | | | | | | • |
| Castleton State Pavilion 2012 3 Asphalt shingles 8,300 Vermont Tech Allen House 2012 3 Standing Seam 3,000 Castleton State Adams Res. Hall 2012 3 Membrane Castleton State Hoff Hall 2012 3 Membrane 43,800 Castleton State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane 6,500 Vermont Tech Morey Dining roof 2013 2 Membrane 2012 Vermont Tech Morey Kitchen roof 2013 2 Membrane 8,600 Vermont Tech Building 300 2013 2 Membrane 8,600 Vermont Tech Nutting A - wing 2015 0 Membrane 9 Vermont Tech Nutting A - wing 2015 0 Membrane 14,500 Vermont Tech Nutting B - Wing 2015 0 Membrane 14,500 | | | | | | |
| Vermont Tech Allen House 2012 3 Standing Seam 3,000 Castleton State Adams Res. Hall 2012 3 Membrane 43,800 Castleton State Hoff Hall 2012 3 Membrane 43,800 Castleton State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane 6,500 Vermont Tech Morey Dorm 2013 2 Membrane 6,500 Vermont Tech Morey Dining roof 2013 2 Membrane 6,500 Vermont Tech Morey Kitchen roof 2013 2 Membrane 6,600 Vermont Tech Morey Kitchen roof 2013 2 Membrane 8,600 Vermont Tech Building 300 2013 2 Membrane 8,600 Vermont Tech Nutting Core 2015 0 Membrane 4,600 Vermont Tech Nutting B - Wing 2015 0 Membrane <td< td=""><td></td><td></td><td></td><td></td><td>, ,</td><td>•</td></td<> | | | | | , , | • |
| Castleton State Adams Res. Hall 2012 3 Membrane 43,800 Castleton State Hoff Hall 2012 3 Membrane 43,800 Castleton State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane Vermort Tech Morey Dorm 2013 2 Membrane Vermont Tech Morey Dining roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| Castleton State Hoff Hall 2012 3 Membrane 43,800 Castleton State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane Vermont Tech Morey Dorm 2013 2 Membrane Vermont Tech Morey Dining roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,500 | | | | | • | 3,000 |
| Castleton State Haskell Res. Hall 2013 2 Membrane 6,500 Vermont Tech Keenan Core 2013 2 Membrane Vermont Tech Morey Dorm 2013 2 Membrane Vermont Tech Morey Dining roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,600 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 8,600 Lyndon State Shape Pool 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | | | | | | |
| Vermont Tech Keenan Core 2013 2 Membrane Vermont Tech Morey Dorm 2013 2 Membrane Vermont Tech Morey Dining roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Membrane Vermont Tech Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bid. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State S | | | | | | • |
| Vermont Tech Morey Dorm 2013 2 Membrane Vermont Tech Morey Dining roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane | | | | | | 6,500 |
| Vermont Tech Morey Dining roof 2013 2 Membrane Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 6,500 Johnson State Fine Arts North low roof 2015 | | | | | | |
| Vermont Tech Morey Kitchen roof 2013 2 Membrane Vermont Tech Building 300 2013 2 Membrane 8,600 Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 6,500 Johnson State Fine Arts North low roof 2015 0 Membrane 7,000 Lyndon State | | • | | | Membrane | |
| Vermont Tech Building 300 2013 2 Membrane 8,600 Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State <td>Vermont Tech</td> <td>Morey Dining roof</td> <td>2013</td> <td>_</td> <td>Membrane</td> <td></td> | Vermont Tech | Morey Dining roof | 2013 | _ | Membrane | |
| Vermont Tech Nutting Core 2015 0 Membrane Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Morey Kitchen roof | 2013 | 2 | Membrane | |
| Vermont Tech Nutting A - wing 2015 0 Membrane Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 6,500 Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Building 300 | 2013 | | Membrane | 8,600 |
| Vermont Tech Nutting B - Wing 2015 0 Membrane CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Steams Dining Hall Roof 2015 0 Membrane 8,600 Castleton State Fine Arts North low roof 2015 0 Membrane 7,000 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Nutting Core | 2015 | 0 | Membrane | |
| CCV St Albans 2015 0 Asphalt Shingles 14,500 Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane 8,600 Castleton State Fine Arts North low roof 2015 0 Membrane 7,000 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Nutting A - wing | 2015 | 0 | Membrane | |
| Johnson State Dibden High roof 2015 0 Membrane 4,200 Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Nutting B - Wing | 2015 | 0 | Membrane | |
| Vermont Tech Maintenance Bld. 2015 0 Membrane 4,600 Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | CCV | St Albans | 2015 | 0 | Asphalt Shingles | 14,500 |
| Vermont Tech Central Heating Plt. 2015 0 Membrane 4,500 Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Johnson State | Dibden High roof | 2015 | 0 | Membrane | 4,200 |
| Johnson State Shape Low roof 2015 0 Membrane 6,500 Johnson State Stearns Dining Hall Roof 2015 0 Membrane Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Maintenance Bld. | 2015 | 0 | Membrane | 4,600 |
| Johnson State Stearns Dining Hall Roof 2015 0 Membrane Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Vermont Tech | Central Heating Plt. | 2015 | 0 | Membrane | 4,500 |
| Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Johnson State | Shape Low roof | 2015 | 0 | Membrane | 6,500 |
| Castleton State Fine Arts North low roof 2015 0 Membrane 8,600 Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | Johnson State | • | 2015 | 0 | Membrane | , |
| Lyndon State Shape Gym 2015 0 Membrane 7,000 Lyndon State Shape Pool 2015 0 Membrane 11,500 | | | | | | 8,600 |
| Lyndon State Shape Pool 2015 0 Membrane 11,500 | | | | | | • |
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e. VSC Deferred Maintenance List

The following spreadsheet lists future potential deferred maintenance projects with estimated costs by campus. These projects are the compilation of project lists gathered from each campus physical plant director and include deferred maintenance and campus improvement projects.

Vermont State Colleges Capital Projects

Revised 10/20/15

| Community College | of Vermont | | | |
|----------------------|---|----------|----------------|------------------|
| Community Concyc | St Albans HVAC Equipment Replacement | | \$ | 150,000 |
| | Leasehold Improvements | | \$ | 450,000 |
| | | Subtotal | \$ | 600,000 |
| Castleton University | | | | |
| | Adams Haskell Elevator power head replacemen | t | \$ | 30,000 |
| | Admission Painting | | \$ | 20,000 |
| | Automatic door openers/ADA projects | | \$ | 33,000 |
| | Babcock Epoxy all Bathroom floors | | \$ | 85,000 |
| | Babcock Eyebrow Replacement | | \$ | 28,000 |
| | Babcock Renovations | | \$ | 400,000 |
| | Babcock Window Replacement | | \$ | 45,000 |
| | Bioler Retube #2 Ellis (Leaking) | | \$ | 9,400 |
| | Boiler Retube #3 Adams (Leaking) | | \$ \$ | 15,500 |
| | Campus Carpet Replacement | | \$ | 100,000 |
| | Campus Rooftop unit service Campus Steam Trap Mapping and Repairs | | \$ \$ \$ | 20,000 |
| | Campus Steam Trap Mapping and Repairs Campus Transformer fuses replaced | | φ \$ | 35,000 20,000 |
| | Castleton Hall 3rd flr door replacement | | Ψ \$ | 1,000 |
| | Chapel Painting | | \$ | 40,000 |
| | Chapel Replace Ramp | | \$ \$ \$ | 25,000 |
| | Coolidge Roof Replacement | | \$ | 300,000 |
| | Coolidge Sprinkler System | | \$ | 80,000 |
| | Ellis Epoxy all Bathroom floors | | \$ \$ | 50,000 |
| | Ellis Renovations | | \$ | 500,000 |
| | Ellis Supply / Waste lines Replacement | | \$ | 150,000 |
| | Emergency generator - west campus | | \$ | 500,000 |
| | Energy management upgrades | | \$ | 100,000 |
| | Exterior lighting | | \$ | 135,000 |
| | Fertilier and weed control for Athletic Fields | | \$ | 10,000 |
| | Fine Arts - install elevators for access | | \$ | 202,500 |
| | Fine Arts - South Elevator Repairs | | \$ | 100,000 |
| | Fine Arts Replace membrane roof | | \$ \$ | 300,000 |
| | General landscaping improvements | | Þ | 75,000 |
| | Herrick Doors Replacement | | \$ \$ | 3,000 74,000 |
| | Hoff Hall Epoxy all bathroom floors Huden Fire Alarm Upgrade | | φ \$ | 25,000 |
| | Huden HVAC Repairs | | \$ | 71,000 |
| | Leavenworth Air Conditioning | | \$ | 345,000 |
| | Leavenworth Elevator upgrade | | \$ | 175,000 |
| | Leavenworth Paint & Carpeting | | \$ | 50,000 |
| | Leavenworth Replace Room Divider | | \$ | 10,000 |
| | Library Sprinkler System | | \$ | 80,000 |
| | Library Window Replacement | | \$ \$ \$ | 50,000 |
| | Morrill Epoxy all Bathroom floors | | \$ | 102,000 |
| | Overseed and Topdress Athletic Fields | | \$ | 6,000 |
| | Paving/Sidewalk projects | | \$ | 1,000,000 |
| | Public Safety Porch Roof Repairs | | \$ | 10,000 |
| | Shape Gym Doors Replacement | | \$ | 3,000 |
| | Stafford Air conditioning | | \$ | 375,000 |
| | Stafford Hallway Doors Replacement | | \$ | 3,000 |
| | Superior - Adams Steamline connection | | \$ | 500,000 |
| | Wheeler Energy all Pathroom floors | | \$ | 135,000 |
| | Wheeler Epoxy all Bathroom floors | | \$ \$ | 102,000 |
| | Wheeler Hot water heater shell replacement Wheeler Renovations | | \$ \$ | 5,000 250,000 |
| | Woodruff Roof Replacement | | \$ | 175,000 |
| | · | 0.14.4.4 | | |
| | | Subtotal | \$ | 6,958,400 |

Lyndon State College

| Campus Underground Power Replacement | \$ | 750,000 |
|--|-------------------|-----------|
| Campus Energy Improvements | \$ | 156,000 |
| President's House energy conservation upg | \$ | 31,000 |
| Campus site plans upgrade | \$ | 44,000 |
| Campus landscaping improvement | \$ | 25,000 |
| Campus ADA compliance renovations | \$ | 36,500 |
| Ball Field Lighting | \$ | 855,000 |
| Vail Center entrance door replace. | \$ | 23,000 |
| Vail Roof Replacement | \$ | 215,000 |
| Campus Exterior Lighting Replacement | \$ | 100,000 |
| Chem Lab Fume Hood Replacement | \$ | 69,000 |
| Activities Building Superior boiler burner repl | \$ | 185,000 |
| Alumni House Renovation | \$ | 950,000 |
| Theater stage floor replacement | \$ | 61,000 |
| Sculpture retaining wall replacement | \$ | 82,500 |
| Campus buildings masonry repairs | \$ | 300,500 |
| Shape walkway replacement | ************** | 30,000 |
| Stonehenge lounge kitchens | \$ | 291,500 |
| Arnold / Bayley residence hall Sprinkler systems | \$ | 45,000 |
| Stonehenge fire alarm panel replacement | \$ | 180,000 |
| Arnold / Bayley elevator installation | ***************** | 165,000 |
| Rogers / Poland elevator installation | \$ | 90,000 |
| Whitelaw / Crevecour elevator installation | \$ | 152,000 |
| White / Crevecour Roof Replacement | \$ | 225,000 |
| Stevens Dining Hall HVAC system engineering | \$ | 95,000 |
| Stevens Restroom Renovation | \$ | 62,000 |
| Residence Halls brick repointing | \$ | 368,000 |
| Stonehenge bathroom ceiling replacement | \$ | 220,000 |
| Stonehenge waterline replacement engineering | \$ | 198,000 |
| Stevens Dining Hall HVAC replacement | \$ | 273,000 |
| Stevens Dining Hall roof replacement | \$ | 180,000 |
| Wheelock bathroom upgrade | \$ | 278,000 |
| Wheelock waste piping & ventilation upgrade | \$ | 300,000 |
| Wheelock Electrical Upgrade A&E | \$ | 30,000 |
| Arnold / Bayley Roof Replacement | \$ | 225,000 |
| Arnold / Bayley bathroom renovations | \$ | 150,000 |
| Arnold / Bayley door replacement | \$ | 305,000 |
| Rogers / Poland bathroom renovation | \$ | 180,000 |
| Rogers / Poland Roof Replacement | \$ | 225,000 |
| Rogers / Poland door replacement | \$ | 115,000 |
| Whitelaw / Crevecour door replacement | \$ \$ \$ | 558,000 |
| Stonehenge exterior panel replacement | \$ | 300,000 |
| Stonehenge heat line replacement | \$ | 250,000 |
| Subtotal | \$ | 9,374,000 |

Vermont Technical College

| Auto Tech Roof Replacement | \$ | 150,000 |
|--|----------------|------------|
| Campus North Water Installation | | 250,000 |
| Center Campus Waterline Replacement | | 400,000 |
| Conant 102 (PIT) Renovation | \$ | 27,500 |
| Conant Window Replacement | \$ \$ | 165,000 |
| Dormitory Elevators (5 units) | | 2,000,000 |
| Farmstead Storage Barn Roof Replacement | \$ \$ \$ | 50,000 |
| Green Hall a/c unit replacement | \$ | 175,000 |
| Green Hall Floor & Ceiling Replacement | \$ | 100,000 |
| Green Hall Recaulking | \$ | 30,000 |
| Hartness Roof Replacement | \$ | 135,000 |
| Judd Hall Roof Replacement | \$ | 125,000 |
| Morey Entry Door Replacement | \$ | 25,500 |
| Morey Kitchen HVAC Replacement | \$ \$ \$ | 400,000 |
| Morey Kitchen Renovation | \$ | 600,000 |
| Morrill Hall Roof Replacement | \$ | 250,000 |
| Morrill Window Replacement | \$ | 225,000 |
| Nutting Mechanical Upgrade | \$ | 450,000 |
| Nutting Plumbing Upgrade | \$ | 500,000 |
| Nutting Restroom Renovations | \$ | 350,000 |
| Nutting Windows Replacement | \$ \$ | 225,000 |
| Parking Lot Repairs and Repaving | \$ | 450,000 |
| Power House Steamline Replacement | \$ | 75,000 |
| Sewer Pump Station Replacement | \$ | 175,000 |
| Ski Hill Maintence & Renovation | \$ \$ \$ | 75,000 |
| Underground Power Replacement | \$ | 600,000 |
| Walkway Repairs and Replacement | \$ | 82,000 |
| Williston Additional Parking | \$ | 950,000 |
| Williston West Building Roof Replacement | \$ | 120,000 |
| Campus Heating Plant Boiler | \$ | 650,000 |
| Campus Steamline Replacements | \$ | 425,000 |
| Green Hall Retaining Wall Replacement | \$ | 110,000 |
| Morey Kitchen Utility Infratructure Replacement | \$ | 180,000 |
| Green Hall Roof Replacement | \$ | 160,000 |
| Green Hall Window Replacement | \$ | 145,000 |
| Keenan Hall Electrical / Plumbing infrastructure Replacement | \$ | 250,000 |
| Conant Roof Replacement | \$ | 95,000 |
| Norwich Farm Exterior Paints and Repairs | \$ | 135,000 |
| Subtotal | \$ | 11,310,000 |

Johnson State College

| Site | | | |
|-----------|--|---------------------------------|-----------|
| | Bentley parking lot improvements | \$ | 750,000 |
| | Campus Sidewalk Replacement | \$ | 400,000 |
| | Campus Undergrond Power Replacement | \$ | 500,000 |
| | Card Access and Hardware Upgrades | \$ \$ \$ \$ \$ \$ | 125,000 |
| | Cross Country Trail improvement | \$ | 29,000 |
| | General site improvements | \$ | 250,000 |
| | Improve Clay Hill Entrance | \$ | 75,000 |
| | Install Building Back Flow Preventers & Pressure Regulators | \$ | 35,000 |
| | Landscape master plan/management plan | \$ | 75,000 |
| | Pave Parking Lot East of Gov's, Senators, Stearns, Arthurs | \$ | 1,000,000 |
| | Paver removal at Gov's Entrance and sidewalk from Parking (Paving) | \$ \$ \$ | 50,000 |
| | Site lighting improvements | \$ | 225,000 |
| | Replacement of AC Water piping and valves on Campus | \$ | 1,600,000 |
| | Road Siding / Swale work | \$ | 50,000 |
| | Roadway & parking lot repaving | \$ | 300,000 |
| | Safety improvements to "Y" intersection | \$ | 150,000 |
| | Safety To Life Projects | \$ | 50,000 |
| | Sidewalks along loop road | \$ | 75,000 |
| | Signage and way finding | \$ | 150,000 |
| | Tennis Court Rebuild | *** | 250,000 |
| Barn | | | |
| | Electrical Service / Water and limited lighting | \$ | 17,500 |
| | Road Grading | \$ | 12,000 |
| | Trodu Studing | Ψ | 12,000 |
| Library & | Learning Center | | |
| | ADA-compliant audio-visual booth | \$ | 9,500 |
| | Card Access System | \$ \$ \$ | 25,000 |
| | Replace Key System | \$ | 25,000 |
| | Install back flow and pressure regulator at water service entrance / Water meter | \$ | 8,500 |
| | Install new carpet in selected areas | \$ | 100,000 |
| | Landscaping | \$ | 15,000 |
| | Lighint replacement Maintenance | \$ | 75,000 |
| | Modify/replace handrails for ADA | \$ | 6,000 |
| | Repaint decorative sunscreen metal work | \$ | 25,000 |
| | Replace drinking fountains with ADA "hi-low" fountains | \$ | 25,000 |
| | Replace failed entrance sidewalk | \$ | 50,000 |
| | Replace roof | \$ | 275,000 |
| | Replace windows with broken seals | \$ | 70,000 |
| | Seal and waterproof the building envelope | \$ | 65,000 |
| | Sump pumps/exhaust for steam pit | \$ | 13,500 |
| | Upgrade finishes | * * * * * * * * * * * * * * * * | 75,000 |
| | | * | . 5,500 |

Dibden Center for the Arts

| ADA Elevator Front RH side of building | \$ | 250,000 |
|---|---|---------|
| ADA-compliant signage | \$ | 5,000 |
| Backflow preventer/water meter | \$ | 7,000 |
| Bring Stairs into Safety compliance | \$ | 100,000 |
| East stairs code compliance | \$ | 46,000 |
| Em lighting improvements | \$ | 35,000 |
| Emergency generator for Dibden & Bentley | \$ | 81,000 |
| Enclose lobby stairs on second floor | \$ | 12,000 |
| Exterior Painting / Sealing | \$ | 45,000 |
| Fire-rated ADA-compliant doors | \$ | 118,000 |
| Handrails at first floor and basement | \$ | 25,000 |
| Install em generator that serves both Dibden and Bentley | \$ | 150,000 |
| Install Security System | \$ | 15,000 |
| Loading dock handrail/guardrail | \$ | 13,000 |
| New passenger elevator - north side | \$ | 263,000 |
| Paint and interior upgrades in theatre proper | \$ | 75,000 |
| Perimeter heating w/DDC controls | \$ | 202,500 |
| Proscenium Curtain | \$ | 225,000 |
| Renovate Dressing rooms and adjacent bathrooms | \$ | 75,000 |
| Renovate dressing/toilet rooms | \$ | 181,500 |
| Renovate dressing/toilet rooms for ADA | \$ | 32,000 |
| Renovate gallery for 3 teaching spaces | \$ | 55,000 |
| Renovate Hall ceiling and lighting system | \$ | 112,000 |
| Replace AHUs and exhaust fans and controls | \$ | 150,000 |
| Replace air handling units/exhaust fans | \$ | 267,500 |
| Replace chiller | \$ | 135,000 |
| Replace drinking fountains for ADA | \$ | 5,500 |
| Replace entry doors/sidelights for ADA | \$ | 55,000 |
| Replace FA system with point ID / voice notification/ Em Exit Signage | \$ | 30,000 |
| Replace Failed Sidewalk | \$ | 15,000 |
| Replace fire alarm system | \$ | 101,500 |
| Replace incandescent lighting | \$ | 81,000 |
| Replace Lower Roof | \$ | 100,000 |
| Replace membrane roof | \$ | 222,000 |
| Replace stage floor | \$ | 785,000 |
| Sprinkler Entire Building | \$ | 115,000 |
| Stage floor electrical receptacles | \$ | 2,500 |
| Test electrical panels | \$ | 4,000 |
| Upgrade fluorescent lighting | ####################################### | 75,000 |
| Upgrade House lighting | \$ | 125,000 |
| West stairs code compliance | \$ | 32,000 |
| · | • | • |

Carter/SHAPE

| ADA-compliant handrail in north stair | \$ | 1,000 |
|--|----------|---------|
| ADA-compliant signs | \$ | 3,500 |
| Add SOLAR heating assistance | \$ | 85,000 |
| Back Storage area off of the Multi Gym (2000 Sq.') | \$ | 150,000 |
| Exterior Landscaping | \$ | 15,000 |
| HW Distribution system upgrades | \$ | 75,000 |
| Improve Racquet Ball Ventilation | \$ | 45,000 |
| Install emergency generator | \$ | 81,000 |
| Install water softener | \$ | 13,500 |
| Lighting replacement Maintenance | \$ | 10,000 |
| Locker Room Upgrades | \$ | 200,000 |
| Paint Multi-Gym / Ceilings / FRP Sheetrock Walls | \$ | 30,000 |
| R Ball Court Renovation / Infill / Floor / Etc | \$ | 85,000 |
| Repair Paver entrance | \$ | 50,000 |
| Replace AHU's | \$ | 75,000 |
| Replace corridor floor | \$ | 18,000 |
| Replace drinking fountains for ADA | | 9,000 |
| Replace electrical panels | \$ \$ | 3,000 |
| Replace lighting in pool | \$ | 13,500 |
| Replace membrane roof | \$ | 180,000 |
| Upgrade heating controls to DDC | \$ | 34,000 |
| Waterproof and Seal the building envelope | \$ | 84,000 |
| | | |

McClelland Hall

| Fire plants Overton False are set | • | 45.000 |
|---|----------|---------|
| Fire alarm System Eplacement | \$ | 15,000 |
| Flooring Upgrades | \$ | 75,000 |
| General Renovation Classrooms / Bathrooms / Offices | \$ | 500,000 |
| Install emergency generator | \$ | 70,000 |
| Install fire-rated doors | \$ | 7,000 |
| Install handrails and guards | \$ | 20,500 |
| Install occupancy sensors/controls | \$ | 20,500 |
| Install sump alarms linked to DDC | \$ \$ | 8,000 |
| Interior Painting | \$ | 50,000 |
| Lighting upgrade | \$ | 45,000 |
| Modify boiler piping | \$ | 13,500 |
| Parking upgrades | \$ | 125,000 |
| Remove and relocate 2nd set of stairs | \$ | 125,000 |
| Renovate HC entrance | | 20,000 |
| Repair / replace and paint rotten Fascia | \$ \$ | 20,000 |
| Repair boiler room wall | \$ | 4,000 |
| Replace entrance vestibule doors | \$ | 28,500 |
| Replace water service entrance | \$ | 20,500 |
| Replacement of carpeting | \$ | 25,000 |
| Restore fire escape | \$ | 14,000 |
| Solar Hot Water | \$ \$ | 75,000 |
| Sprinkler Installation | \$ | 75,000 |
| Upgrade elevator alarm interface | \$ | 7,000 |
| | | |

Martinetti Hall

| ADD AC for First Floor Part II | \$ | 250,000 |
|---|-----------------------------------|-----------|
| Additional Trash room with Exhaust | \$ | 15,000 |
| Asbestos abatement | \$ | 70,000 |
| Card Access to offices | \$ \$ | 25,000 |
| Complete Ventilation & HVAC | \$ | 1,250,000 |
| Construct new entry to Admissions / Parking and Addition | \$ | 150,000 |
| Electrical Transformer Upgrade | \$ | 75,000 |
| Exhaust system replacement | \$ | 38,000 |
| Heating System upgrade | \$ | 450,000 |
| Improve safety & appearance of west stair | \$ | 33,000 |
| Install air conditioning in 2nd/3rd offices | \$ | 135,000 |
| Install air handling system for first floor front | \$ | 67,500 |
| Install elevator | \$ | 282,000 |
| Install sprinkler system | \$ | 625,000 |
| Install sprinkler system | \$ | 216,000 |
| Install unit ventilators - 2nd/3rd classrooms | \$ | 54,000 |
| Install water meter at service entrance | \$ | 4,000 |
| Lighting replacement Maintenance | \$ | 65,000 |
| Lighting upgrade in dorm rooms | \$ | 60,000 |
| Modify generator to prevent freeze-up | \$ | 27,000 |
| New Emergency Generator to pick up entire building | * * * * * * * * * * * * * * * * * | 90,000 |
| Ramp/accessible entrance to Admissions | \$ | 57,500 |
| Renovate 2nd/3rd toilet rooms for ADA | \$ | 284,000 |
| Renovate first floor administrative offices | \$ | 2,200,000 |
| Repaint and Repair Window Brick and Sills | \$ | 125,000 |
| Repair exterior brick and entrances | \$ | 199,800 |
| Repair planter and Academic Deans Entrance | \$ | 45,000 |
| Replace 2nd & 3rd floor lighting | \$ | 54,000 |
| Replace entire heating system | \$ \$ | 540,000 |
| Replace entrance doors for ADA | \$ | 4,400 |
| Replace exhaust ventilation system | \$ | 40,500 |
| Replace first floor drinking fountain for ADA | \$ \$ \$ \$ \$ \$ | 2,000 |
| Replace flooring on second floor north wing | \$ | 34,000 |
| Replace four single-glazed windows on first | \$ | 34,900 |
| Replace hot water heating equipment | \$ | 34,000 |
| Replace non fire rated doors and em. hardware / mag holders | \$ | 55,000 |
| Replace south elevation storefront | \$ | 153,500 |
| Replace two egress doors for safety | \$ | 7,500 |
| Replacement of dormitory doors | \$ | 17,000 |
| Rewire 2nd & 3rd floors/devices | \$ \$ \$ | 34,000 |
| Solar Hot Water System / Assistance | \$ | 95,000 |
| Upgrade HVAC system (2nd and 3rd FL) | \$ | 450,000 |
| | | |

| Maintenance Building | | |
|---|----------|---------|
| Addition | \$ | 250,000 |
| Expand fire alarm system | \$ | 10,000 |
| Generator | \$ | 55,000 |
| Install accessible sidewalk to entrance | \$ | 18,500 |
| Install backflow preventer | \$ | 10,000 |
| Install emergency lighting | \$ | 4,000 |
| Install exit signs | \$ | 3,000 |
| Insulate exterior walls with EIFS | \$ | 120,500 |
| Interior repainting | \$ | 50,000 |
| Lighting replacement Maintenance | \$ | 12,000 |
| New Doors and Windows | \$ | 40,000 |
| New Salt/ Sand shed | \$ | 80,000 |
| Pave the parking lot,drive,drain line | \$ | 85,000 |
| Renovate hallway and toilet rooms for ADA | \$ | 52,000 |
| Replace existing stair with steel | \$ | 12,000 |
| Replace Fascia | \$ | 15,000 |
| Replace furnace in garage | \$ | 11,000 |
| Replace heating system in office and shop | \$ | 67,500 |
| Rework Leech Field | \$ | 15,000 |
| Roof over Compactors / safety | \$ | 35,000 |
| Sprinkler Building | \$ | 28,000 |
| Sprinker building | Ψ | 20,000 |
| Dewey Campus Center | | |
| Replace Key System | \$ | 20,000 |
| Exterior Painting / Sealing | \$ | 20,000 |
| Flooring upgrades | \$ | 20,000 |
| Installation of air conditioning | \$ | 202,500 |
| Install water meter | \$ | 4,000 |
| Lighing replacement | \$ | 40,000 |
| Interior Painting | \$ | 40,000 |
| Re-carpet Building | \$ | 65,000 |
| Relocate hot water pumps/piping | \$ | 4,000 |
| Renovate toilet rooms for ADA | \$ | 110,000 |
| Replace drinking fountains for ADA | \$ | 4,000 |
| Replace sump pumps | \$ | 7,000 |
| Stair and Sidewalk constuction | \$ | 25,000 |
| Window Replacement | \$ | 320,000 |
| Bentley Hall | | |
| Bentley Sound Entenuation (207) | \$ | 38,000 |
| Duct System Cleaning | \$ | 25,000 |
| New Electrical transfer switch and panel | \$ | 67,500 |
| Perimeter heating w/DDC controls | \$ | 405,000 |
| Repair Exterior brick and concrete walls | \$ | 375,000 |
| Replace Dimmer system and lighting in 207 | \$ | 75,000 |
| Replace AHU's | \$ | 110,000 |
| Roof Replacement | \$ | 165,000 |
| Burelilante Ususa | | |
| Presidents House | • | 10 500 |
| ADA Hardware | \$ \$ | 12,500 |
| Drive Repair | \$ | 48,000 |
| Exterior Painting | \$ \$ | 13,000 |
| Install Fire Alarm / Security System | \$ | 10,000 |
| Interior Painting | \$ | 12,000 |
| Landscaping | \$ | 15,000 |
| Repair Foundation at Garage | \$ | 20,000 |
| Sprinkler System | \$ | 10,000 |
| | | |

| Governors | Bathroom Upgrades | \$ | 270,000 |
|-----------|---|-------------------------------------|--|
| | Complete Sprinklering of the building | \$ | 125,000 |
| | Electric Hot Water Upgrade /Solar | \$ | 110,000 |
| | Electrical upgrades | \$ | 200,000 |
| | Elevator | \$ | 308,000 |
| | Elevator | \$ | 275,000 |
| | Elevator (2nd) | \$ | 275,000 |
| | Exterior trash shoots | \$ | 45,000 |
| | Fire Alarm upgrade | \$ | 45,000 |
| | Interior Painting | \$ | 100,000 |
| | Lighting | \$ | 150,000 |
| | Lighting replacement Maintenance | \$ | 60,000 |
| | New Stair Treads | \$ | 20,000 |
| | Remove Broken Pavers and Road Repair | \$ | 100,000 |
| | Repair decks | \$ | 40,000 |
| | Repair foundation and retaining walls | \$ | 75,000 |
| | Card Access upgrade | \$ | 50,000 |
| | Window replacement | \$ | 15,000 |
| | William replacement | Ψ | 10,000 |
| Stearns | | | |
| | Exterior brick repair & Seal | \$ | 450,000 |
| | Hot Water Upgrade | \$ | 75,000 |
| | Additional Parking at Mail Room | \$ | 15,000 |
| | Front Entrance Lighting | \$ | 15,000 |
| | Walk In Coolers Compressor Upgrade With Back Up | \$ | 50,000 |
| | Solar Hot Water with TES | \$ | 125,000 |
| Senators | | | |
| | | | |
| | ADA hardware | \$ | 42 000 |
| | ADA hardware Ashestos removal | \$ \$ | 42,000 60,000 |
| | Asbestos removal | \$ | 60,000 |
| | Asbestos removal Card Access upgrade | \$ \$ | 60,000 50,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building | \$ \$ \$ | 60,000 50,000 150,000 |
| | Asbestos removal Card Access upgrade | \$ \$ \$ | 60,000 50,000 150,000 275,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st | \$ \$ \$ \$ | 60,000 50,000 150,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) | \$ \$ \$ \$ \$ | 60,000 50,000 150,000 275,000 275,000 275,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 60,000 50,000 150,000 275,000 275,000 275,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting | * * * * * * * * * | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades | * | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 100,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance | * | 60,000 50,000 150,000 275,000 275,000 60,000 75,000 100,000 50,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades | * * * * * * * * * * | 60,000 50,000 150,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads | ** | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 20,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks | * * * * * * * * * * * * * * | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 20,000 60,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting upgrades Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms | * * * * * * * * * * * * * * * * * * | 60,000 50,000 150,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 20,000 60,000 35,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water | ************ | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 60,000 35,000 150,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water Transformer replacement | ************* | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 20,000 35,000 150,000 35,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water Transformer replacement Exterior Trash shoot | ************ | 60,000 50,000 150,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 20,000 60,000 35,000 150,000 35,000 45,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water Transformer replacement Exterior Trash shoot Upgrade Electrical Gear / Meter | ************* | 60,000 50,000 150,000 275,000 275,000 60,000 75,000 100,000 50,000 135,000 20,000 60,000 35,000 150,000 35,000 45,000 67,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water Transformer replacement Exterior Trash shoot Upgrade Electrical Gear / Meter Upgrade Fire alarm system | ******* | 60,000 50,000 150,000 275,000 275,000 275,000 100,000 50,000 135,000 150,000 35,000 150,000 35,000 45,000 35,000 35,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water Transformer replacement Exterior Trash shoot Upgrade Electrical Gear / Meter Upgrade Fire alarm system Exterior Wood Finish / replacement | ***** | 60,000 50,000 150,000 275,000 275,000 275,000 60,000 75,000 100,000 35,000 150,000 35,000 45,000 45,000 67,000 35,000 |
| | Asbestos removal Card Access upgrade Complete Sprinklering of the building Elevator Elevator 1st Elevator (2nd) HW upgrades Interior Painting Interior Upgrades Lighting replacement Maintenance Lighting Upgrades New Stair Treads Repair decks Revamp Counseling Ctr and Health Center Bathrooms Solar Hot water Transformer replacement Exterior Trash shoot Upgrade Electrical Gear / Meter Upgrade Fire alarm system | ******* | 60,000 50,000 150,000 275,000 275,000 275,000 100,000 50,000 135,000 150,000 35,000 150,000 35,000 45,000 35,000 35,000 |

| College Apartments | | |
|---|-------------------|------------|
| Construct Parking Lots / Drive / Sidewalk | \$ | 200,000 |
| Electrical system upgrade | \$ | 175,000 |
| Electronic Card Locks 75 @ \$450 | \$ | 40,000 |
| Flooring upgrades | \$ | 143,000 |
| Heating conversions | \$ \$ | 172,000 |
| Kitchen Upgrades | \$ | 150,000 |
| Lighing replacement Maintenance | \$ \$ \$ | 30,000 |
| Sprinkler all apartments | \$ | 150,000 |
| Arthur Hall | | |
| ADA Compliance Hardware | \$ | 25,000 |
| Cable Television Wiring Retrofit | \$ | 7,000 |
| Continue renovations for Wellness Center | | 50,000 |
| Door replacement | \$ | 22,000 |
| Elevator/Replacement | \$ \$ \$ \$ \$ \$ | 300,000 |
| Flooring upgrade | \$ | 13,000 |
| Front Door Replacement | \$ | 15,000 |
| Heating Control upgrades 2nd 3rd, | \$ | 65,000 |
| Heating system replacement | \$ | 500,000 |
| Improve boiler room safety | \$ \$ \$ | 25,000 |
| Interior painting | \$ | 30,000 |
| Interior Upgrades | \$ | 150,000 |
| Laundry room upgrades | \$ \$ \$ | 45,000 |
| Lighting replacment / maintenance | \$ | 15,000 |
| Loading Dock Repair / Stair | \$ \$ | 25,000 |
| Railing replacement | \$ | 12,500 |
| Replace #1 & #2 boilers | \$ | 472,000 |
| Replace chemical room ventilation system | \$ | 20,500 |
| Replace Window walls windows | \$ | 75,000 |
| Subtotal | \$ | 33,797,600 |

VSC Project Total \$ 62,040,000

2. VSC Debt Review

a. VSC Overview Debt Schedule Review (2016-2042)

Below is a schedule that shows the principal and interest by college and year. The debt is fairly linear for the next five years. The debt steps up a little during years 2021-2025 due to the Series 2013 (Series 2003 refi) principal increasing during this timeframe – most of the Series 2013 was sold in the out years due to the yield curve being favorable there. In addition the TD Bank SWAP was structured so the principal payments increased annually over the life of the loan. As with most debt the principal was structured lower in the beginning to allow the constructed assets time to start paying for themselves (i.e., dormitories). The sudden increase in the debt schedule during years 2026-2030 is due to the TD Bank balloon payment of \$39,201,834 in year 2028. We have assumed from the start that this loan will have to be refinanced when the interest rate market becomes favorable. Years 2031 and beyond reflect the systematic pay down of the principal.

| | VSC | VSC | CCV | CCV | CU | CU | JSC | JSC | LSC | LSC | VTC | VTC |
|-----------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|-------------|
| Years ending June 30, | Principal | Interest | Principal | Interest | Principal | Interest | Principal | Interest | Principal | Interest | Principal | Interest |
| 2016 | \$4,661,213 | \$5,560,090 | \$798,551 | \$1,143,094 | \$1,804,007 | \$2,147,438 | \$628,633 | \$617,778 | \$693,795 | \$916,991 | \$736,227 | \$734,789 |
| 2017 | \$5,422,083 | \$5,325,744 | \$888,813 | \$1,096,161 | \$2,080,864 | \$2,052,427 | \$759,843 | \$594,536 | \$880,893 | \$874,742 | \$811,670 | \$707,878 |
| 2018 | \$5,647,584 | \$5,078,704 | \$929,215 | \$1,047,819 | \$2,166,669 | \$1,955,575 | \$790,822 | \$569,656 | \$916,759 | \$830,576 | \$844,119 | \$675,078 |
| 2019 | \$5,707,937 | \$4,854,637 | \$1,028,013 | \$1,003,559 | \$2,235,777 | \$1,868,967 | \$671,522 | \$543,745 | \$964,154 | \$796,304 | \$808,471 | \$642,062 |
| 2020 | \$4,384,276 | \$4,678,926 | \$687,207 | \$970,834 | \$2,002,502 | \$1,787,723 | \$479,292 | \$547,571 | \$506,652 | \$762,958 | \$708,623 | \$609,840 |
| 2021-2025 | \$24,874,187 | \$20,254,413 | \$5,147,666 | \$4,218,645 | \$10,013,813 | \$7,664,975 | \$2,584,927 | \$2,280,489 | \$4,154,253 | \$3,391,150 | \$2,973,528 | \$2,699,154 |
| 2026-2030 | \$56,827,823 | \$10,937,003 | \$13,340,485 | \$2,069,245 | \$20,541,298 | \$4,180,189 | \$6,603,021 | \$1,241,312 | \$10,493,202 | \$1,746,798 | \$5,849,817 | \$1,699,459 |
| 2031-2035 | \$10,051,106 | \$3,147,112 | \$1,513,481 | \$322,199 | \$4,068,092 | \$1,305,280 | \$803,756 | \$375,015 | \$2,042,030 | \$291,527 | \$1,623,747 | \$853,091 |
| 2036-2040 | \$7,805,000 | \$1,250,264 | \$2,682,931 | \$86,223 | \$2,468,136 | \$574,160 | \$662,375 | \$144,280 | \$267,848 | \$49,146 | \$1,723,710 | \$396,455 |
| 2041 | \$1,795,000 | \$0 | \$39,153 | \$0 | \$991,800 | \$0 | \$152,502 | \$0 | \$133,764 | \$0 | \$477,781 | \$0 |
| | \$127,176,209 | \$61,086,893 | \$27,055,515 | \$11,957,779 | \$48,372,958 | \$23,536,734 | \$14,136,693 | \$6,914,382 | \$21,053,350 | \$9,660,192 | \$16,557,693 | \$9,017,806 |
| | 100% | 100% | 21% | 20% | 38% | 39% | 11% | 11% | 17% | 16% | 13% | 15% |

b. VSC Bonds and Loans

Bond or Note Payable:

O/S Principal as of June 30, 2015:

Revenue Bonds, Series 2010A

\$6,741,464

Serial bonds (or installment bonds) with amortization through 2018. These revenue bonds are collateralized by the general revenue of the corporation. The interest rate ranges between 3% - 4% depending on the bond issuance date. The Series 2010A Bonds were issued primarily for the purpose of refinancing a portion of the Series 1998 Bonds and refinancing other indebtedness of VSC including loans to improve the colleges.

Revenue Bonds, Series 2010B (Build America Bonds)

\$30,265,000

Serial bonds (or installment bonds) with amortization through 2040. These revenue bonds are collateralized by the revenue generated by these projects. The interest rates range from 4.8% - 7.2% depending on the issuance date. We pay a little higher interest to the bondholders with the Series 2010B but the federal government gives the VSC a 35% subsidy for the interest paid. The Build America Bonds were part of the federal stimulus plans. The interest subsidy is subject to federal sequester. The Series 2010B were issued primarily for the purpose of (1) financing the 12,000 foot addition to CCV Montpelier; (2) constructing a new residence hall at Castleton; (3) building renovations at JSC; (4) building renovations at LSC along with parking lot expansion; (5) building renovations at VTC.

TD Bank SWAP 2005

\$3,363,177

A fixed term loan with an amortization through 2025. The interest rate on this loan is 4.97%. This loan is collateralized by substantially all unrestricted revenue and assets not previously pledged as collateral on other debt. This loan was executed primarily for new housing at Castleton.

TD Bank SWAP 2008

\$64,804,979

A fixed term loan with an amortization through 2028. The interest rate on this loan is 4.63%. During 2028 there is a balloon payment of \$39,201,834 to retire this loan. This loan is collateralized by substantially all unrestricted revenue and assets not previously pledged as collateral on other debt. The 2008 loan was executed primarily for the purpose of (1) the construction of CCV Winooski; (2) the renovation of the Castleton campus center and gymnasium along with the construction of the Spartan Stadium; (3) the

Stearns renovation at JSC; (4) the renovation of the academic building and student center at LSC; (5) and renovation of the Williston academic building and Randolph housing at VTC. Part of this loan was also used for deferred maintenance projects throughout the VSC colleges.

TD Bank SWAP 2009

\$2,151,324

A fixed term loan with an amortization through 2032. The interest rate on this loan is 5.25%. This loan is collateralized by substantially all unrestricted revenue and assets not previously pledged as collateral on other debt. This loan was executed primarily to purchase CCV 660 Elm Street in Montpelier.

Revenue Bonds, Series 2013

\$19,850,265

Serial bonds (or installment bonds) with amortization through 2032. The Series 2013 Bonds were issued primarily for the purpose of refinancing a portion of the Series 2003 Bonds. The Series 2003 Bonds had an average interest rate of 4.67% - the Series 2013 Bonds have an average interest rate of 3.62%. This resulted in a \$1.8M savings in interest. These revenue bonds are collateralized by the general revenue of the corporation.

c. VSC Covenant Review

TD Bank

The VSC has two loan covenants associated with the TD Bank loans that is due to them after the annual audit. An independent annual audit and the satisfactory compliance with the Debt Service Coverage are the two covenants. In order to maintain compliance with this covenant it is vital that the VSC does not allow further degradation of Net Income. Based on the numbers below if Net Income were ~\$5,000,000 less we would be out of compliance with this covenant.

TD Bank Financial Covenants 6/30/15

| Debt Service Coverage Ratio with GASB 45 | | |
|--|---|--------------|
| Net Income | + | (10,254,090) |
| Taxes | + | 0 |
| Depreciation | + | 14,087,773 |
| Amortization | + | 0 |
| Cash Taxes | - | 0 |
| Interest Expense | + | 5,758,495 |
| GASB 45 Adjustments | + | 5,789,775 |
| | | 15,381,953 |
| (divided by) | | |
| Interest Expense | + | 5,758,495 |
| CPLTD | + | 4,661,213 |
| | | 10,419,708 |
| Actual Ratio is | | 1.48 |
| Ratio of at least 1.00 | | 1.00 |

Bond Covenants

The VSC has three bond covenants; an independent annual audit along with a no default certificate and the submission of supplementary information to the bondholders. These documents are due at the end of every October.

d. Update on VSC Consultant Engagement

Rick Beyer, the consultant from AGB Consulting has made two trips to each of the four campus based colleges. The meetings have been with college leadership, and others as appropriate, and have been very open and frank. The discussions have focused almost exclusively on growth and revenue opportunities. Rick has been gathering data and statistics and following up with specific individuals for more in depth discussion. A midterm report is due to the OC by late November in which ideas will start to be teased out.