PPAA WINTER CONFERENCE

SUNY Capital Update

January 29, 2020
2020/2021
CAPITAL BUDGET REQUEST
AND
EXECUTIVE BUDGET
<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>2020/21 REQUEST</th>
<th>2020/2021 EXECUTIVE BUDGET</th>
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<tbody>
<tr>
<td>Educational Facilities</td>
<td></td>
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<tr>
<td>• Base Critical Maintenance (recurring)</td>
<td>$650.0</td>
<td>$550.0</td>
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<tr>
<td>• Strategic Needs, Matching Program (State share)</td>
<td>$200.0</td>
<td>$200.0</td>
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<td>$850.0</td>
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<td>Subtotal, State Bonded Capital</td>
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<td>• Strategic Needs, Matching Program (Campus share, dry appropriation)</td>
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<td>• Additional Capital, Campus supported Capital Projects Fund (384, dry appropriation)</td>
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<td>Residence Halls</td>
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<td>(Pay-as-you-go) Capital</td>
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<td>TOTAL, STATE-OPERATED/STATUTORY CAMPUSES</td>
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<td>Community Colleges (State Share)</td>
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Variable Funding Allocations Present Planning Challenges

2017/18 ENACTED
- $153.4M CAMPUS ALLOCATION
- $296.6M FUND DISTRIBUTED
- $100.0M CAMPUS ALLOCATION

2018/19 ENACTED
- $353.4M CAMPUS ALLOCATION
- $196.6M FUND DISTRIBUTED

2019/20 ENACTED
- $153.4M CAMPUS ALLOCATION
- $396.6M FUND DISTRIBUTED

2020/2021 EXECUTIVE
- $153.4M CAMPUS ALLOCATION
- $396.6M FUND DISTRIBUTED

RESTRICTED:
- Existing facilities

LESS RESTRICTED:
- New construction, additions, or existing facilities

$550M EVERY YEAR
• The 2020-21 Executive Budget includes language that authorizes the Fund to utilize design-build contracts

• There is no explicit dollar threshold for the size of projects established in the language for utilization of the design-build mechanism

• It appears that design-build projects may be required to have a Project Labor Agreement (PLA)
Advocacy for 2020/21 Capital Funding

Building the Foundation for New York’s Future

Requires a 2020-2025 Multi-Year Capital Plan

DRAFT

The Powerful Impact of Capital Funding

American public universities have a broad and fundamental commitment not only to learning, education, and scholarship, but also to serving the wider public by driving economic development through the preparation of tomorrow’s workforce, conducting research that can improve the world around us, and working to solve societal issues or national challenges.

Each campus within The State University of New York makes many diverse contributions beyond academics to the region in which it is located. When these contributions are gathered together, we are better able to appreciate the enormous impact of SUNY on each of our communities.

Impact of Capital Funding

- $26.8B in SUNY’s overall economic impact
- $8.87B in every $1 invested in SUNY’s $1 in economic impact
- 1M SUNY graduates annually
- 3.0M SUNY alumni
- $1.6B SUNY contributes to research and development each year
- 73K SUNY employees
- 79K SUNY construction jobs annually
- 96K Degrees granted annually

Energy Efficient Design

The Department of Energy in the State University of New York at Stony Brook has been one of the best in the nation. According to the list published by the American Institute of Architects, Stony Brook University was ranked #1 among all public universities and #5 among all universities in the nation for energy efficiency. This project in particular exemplifies the commitment of Stony Brook to using the most efficient technologies to reduce energy consumption and improve sustainability.

The Department of Energy at Stony Brook University has implemented an energy-efficient design plan that involves the use of innovative technologies and strategies to reduce energy consumption and improve sustainability. This project is expected to result in significant energy savings and help reduce greenhouse gas emissions. The implementation of these strategies will not only benefit Stony Brook University but also contribute to the overall sustainability efforts of the State University of New York and the nation as a whole.
1) Increase $550M to $650M over 5 years
2) Recurring Matching Program?
WHAT’S NEW
As a Public Benefit Corporation, the Fund is governed by a three-member Board of Trustees (BOT) appointed by the Governor who serve a six-year, staggered term without pay. One trustee must also be a SUNY trustee, and the Governor appoints the Chairman of the Board.

**Fund Board of Trustees**
- Eric Corngold, Chairman
- David Ourlicht, Trustee

Eric Corngold is the Fund’s newest board member. He was appointed as a member of the SUNY Board of Trustees in June 2013, and appointed as a member of the Fund Board of Trustees in December 2019.
PROCESS IMPROVEMENTS

CHANGES TO CONTRACTS
Enhanced ‘Project Acceptance’ Language

• More clearly defined deliverables/requirements for **Substantial Completion**.
  – Requires punchlist value to be no more than 1% of the contract consideration.
  – Requires punchlist to be complete within 90 days of substantial completion.
  – O&M Manuals submitted, all training complete. As-builts submitted.

• Allows for partial acceptance of work without stopping the assessment of liquidated damages.

• Eliminated the term, ‘Beneficial Occupancy’
Changes to ‘Schedule and Reporting Requirements’

• Requires monthly/regular submission and maintenance of a time progress schedule per the General Requirements

• Failure to comply shall be deemed to be a waiver by the contractor of all claims for additional time, compensation or damages.
Changes to ‘Proceed Order’

• Historically coordinators could direct only base contract work

• Coordinators now have the ability to issue a Proceed Order if it becomes necessary to add, modify or change the work covered by the contract
Review of Contract Language for Insurance Coverage

- Procured an Insurance expert to review all insurance requirements
- Performed an exhaustive review of construction language for required insurance coverage and required forms from the vendor
- Modifications to the contract and internal process are in process
Zero Punchlist Initiative

**Incorporate Initiative During the Planning Phase**

1. Obtain early buy-in from all parties especially at executive level
2. Identify point person early to coordinate process and maintain the master log
3. Consider tracking approach (Software System vs. Excel workbook)
4. Consider need for additional Consultant and/or Subconsultant site visits
5. Consider designating separate punchlist coordination meetings
6. Incorporate time into the baseline schedule for the development and completion of the punchlist
Zero Punchlist Initiative - Benefits

1. Reduces need for contractor and subcontractors to remobilize for small tasks
2. Helps expedite the closeout process
3. Reduces transition time between projects for (consultant) staff
4. Eliminates punchlist work that occurs after building occupancy
5. Reduces overlap with fit-out efforts
6. Ultimately, it helps to reduce costs

“The ‘zero punch list’ initiative SUCF has instituted promises to have a tremendous positive impact on the construction industry. As stated by J.D. Young of AGC NYS Member firm Welliver, this effort has the effect of focusing the team into a more collaborative one leading to positive project results for the entire team. AGC NYS greatly appreciates SUCF’s leadership here.”

Joe Hogan, VP Building Services, AGC
Zero Punchlist Initiative Example
SUNY Cortland: Renovate Park Center Façade
Zero Punchlist Initiative Example
SUNY Cortland: Renovate Park Center Façade
Zero Punchlist Initiative Example
SUNY Cortland: Renovate Park Center Façade

“Establishing the goal of “zero punchlist” at substantial completion for both the design and construction teams, did more to foster collaboration for the mutual benefit of the Owner, Architect and Contractor, than any single initiative Welliver McGuire has undertaken with the SUCF in our 30 year history of working together.

At last, a singular purpose of finishing 100% complete permeated every action in each job meeting. So similarly with closing the project out 30 days thereafter.”

J.D. Young, Welliver-McGuire Park Center Façade Project

- $11.2M exterior façade renovation
- 92,500 GSF of vertical exterior surface
- NTP: May 2018, SC: May 2020
- Consultant: Flynn Battaglia Architects, P.C.
- Contractor: Welliver McGuire, Inc.
Zero Punchlist Initiative Example
Renovate Student Union, Stony Brook University
Zero Punchlist Initiative Example
Renovate Student Union, Stony Brook University

• $64M gut renovation
• 170,000 SF late 1960’s concrete building
• NTP: January 2017, SC February 2020 (estimated)
• Consultant: The Spector Group
• Contractor: EW Howell Co, LLC

“EW Howell’s experience with the “Zero Punch List” program at Stony Brook University’s Student Union Project has been highly successful and rewarding. We have established a ZPL close-out meeting and lessons learned for February at the campus. …We are now modifying our subcontract scope agreements to incorporate this approach on all future work.”

Jack Hagen, EW Howell
The 1A-8 constructability review checklist was updated to better align with today’s campus requirements and design directives.

The design consultant and subconsultants must address identified constructability issues during the design process.

This effort allows for better project schedule management due to more accurate design.
TRENDS
Construction Employment

UNITED STATES

NEW YORK STATE

ALL EMPLOYEES, IN THOUSANDS


UNITED STATES:

- 7,725 (2014) with a 30% drop to 5,427 (2012)
- 5,427 (2012) with an increase to 7,551 (2018)

NEW YORK STATE:

- 772,500 (2014) with a 17% drop to 363,600 (2012)
- 363,600 (2012) with an increase to 402,500 (2018)

39% increase
33% increase
Fund Annual Bid History, 2008 to 2020

Average Low Bid v. Budget is -5.7%
Fund Annual Bid History, 2008 to 2020

-9.5% -9.3% -15.7% -7.0% -4.8% -7.5% -6.6% 1.8% -8.7% -4.6% -7.1% 6.1% -9.8%
Fund Annual Bid History, 2008 to 2020
Average Number of Bidders Statewide
2008 to 2020
Average Number of Bidders By Region
2008 to 2020

State Fiscal Year End

- West
- Central
- East/North
- South/NYC/LI

Average # of Bidders
Average Number of Bidders By Region and Statewide 2008 to 2020

State Fiscal Year End

- West
- Central
- East/North
- South/NYC/LI
- Statewide
• Evaluate the need to update your Facility Master Plan.
• Campuses are encouraged to update their FMPs when appropriate.
• FMP updates should include residence halls, transportation, and an energy master plan.
EXAMPLE:
University at Albany Building 27

This academic space is a recently completed comprehensive renewal and full gut renovation that includes mechanical, electrical, plumbing systems, telecommunications systems, windows, and roofing.

The new space will accommodate the Education and Math Departments.
2019 FCI by Campus
Includes Buildings, Grounds, Parking, and Athletics

If the SUNY Capital Program is not funded at $850M annually, FCI is anticipated to reach 25% by 2023

AVERAGE SUNY FCI: 12.7%
IDEAL FCI: 5%
Much More Investment is Needed to Maintain Aging Assets

DISTRIBUTION OF $4.5B IMMEDIATE ASSET RENEWAL NEEDS

- Building Systems: 51%
- Electrical: 25%
- HVAC: 59%
- Plumbing: 11%
- Life Safety: 5%
- Utilities: 9%
- Exterior Rehabilitations: 9%
- Interior Rehabilitations: 25%
- Sitework: 6%
Aligning Critical Maintenance Investment with Enrollment Growth and to Prepare SUNY Graduates for 21st Century Professions:

Percent Change in Headcount Enrollment, by Program of Study


Over the past decade, SUNY has invested more than $3B in facilities that support STEM programs.
THE PUBLIC POLICY / PUBLIC ADMINISTRATION ASPECT OF CAPITAL
The Enduring Requirements of Fund/Campus Memorandums of Understanding

Our MOU requires that the Campus, as a letting agency for the Fund, will adhere to all applicable laws, rules and regulations related to accessing and utilizing the Fund’s capital appropriations, including:

- Obtaining DOB and Executive Chamber approval to advance campus-administered design and construction contracts and establishing MWBE goals.
- Providing the SUNY Controller’s Office with information necessary to capitalize the asset.
- Completing and certifying the accuracy of the annual non-governmental (private use) survey detailing the percentage of private use in each campus facility.
- Adherence to the Fund’s Design Directives.

MEMORANDUM OF UNDERSTANDING

STATE UNIVERSITY CONSTRUCTION FUND, STATE UNIVERSITY OF NEW YORK,
and the __________________

This MEMORANDUM OF UNDERSTANDING, made as of the __________ day of ________, 2015, by and between the State University Construction Fund, a corporate governmental agency constituting a public benefit corporation created by chapter 251 of the Laws of 1982, as amended (hereinafter called the “Fund”), and the State University of New York, an educational corporation within the State Education Department created pursuant to chapter 598 of the Laws of 1948, as amended (hereinafter called the “University”), and the one of the constituent educational institutions under section 352(3) of the Education Law (hereinafter called the “Campus”);

WHEREAS, pursuant to Article 8-A of the Education Law, the Fund is a public benefit corporation and is authorized to construct, rehabilitate, maintain and repair facilities for the University;

WHEREAS, capital appropriations are made to the Fund and the Fund assumes the responsibility of stewardship over said appropriations in that they are disbursed in accordance with State law and regulations;
“The State must conduct business only with responsible entities.”
OSC Pre-Audit

- Checklist
  - Construction 30 Day Review Submission Checklist
  - New Construction Contract
  - Construction Contract Amendment/Change Order

- Guidance document
# OSC Pre-Audit Checklist

**Office of the State Comptroller**  
**Bureau of Contracts**  
**Construction 30 Day Review Submission Checklist**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>
| ☐   | ☐  | The procurement opportunity was advertised as required by law;  
| ☐   | ☐  | If not, please explain: |
| ☐   | ☐  | This was a competitive procurement with three or more responsive bids received; |
| ☐   | ☐  | The award(s) were made in accordance with the solicitation's method of award; |
| ☐   | ☐  | If provided for in the solicitation, the debriefing period has passed and all debriefings requested have been completed; |
| ☐   | ☐  | Were any bids rejected? Please explain any bid rejections: |
| ☐   | ☐  | Were any protest or appeals of protest determinations received? Please explain any protests/appeals and how resolved (no protest or appeal, where provided for, should be open): |
| ☐   | ☐  | This transaction was submitted through the Electronic Documents Submission System (EDSS) and all required documentation based on the attached Document Order Guide has been provided; |
| ☐   | ☐  | All other required agency reviews are complete and approvals have been obtained (e.g., DOB, Ig, AG). |
| ☐   | ☐  | The awarded low bid is within 15% of the pre-bid cost estimate; |
| ☐   | ☐  | A clause is included in the contract/amendment agreement indicating that procurement documents and contracts have no force and effect and the State bears no liability unless the procurement documents and contracts are approved by OSC or the pertinent pre-audit review period has elapsed (Item 3A, Memorandum of Understanding). |
OSC Pre-Audit Checklist

Documentation Order Guide for Construction Contracts, Contract Amendments / Change Orders Subject to 30 Day Review

(Transmitted via OSC’s Electronic Document Submission System)

New Construction Contract

1) Transaction Identifying Documents
   - Cover Letter which includes agency contact preferences, FOIL concerns, and any unique or unforeseen circumstances
   - SUNY Construction Procurement Checklist (Form 7554-00)
   - OSC Non-Approval Notice, if resubmission

2) Contract
   - Construction Contract Agreement or Purchase Order Document (including performance bond and labor and material bond, and all current appendices, exhibits and attachments)

3) Procurement Documents
   - Project Manual (Invitation to Bid Package)
   - New York State Contract Reporter Advertisement
   - Newspaper advertisements
   - Bid Tabulation, signed and dated
   - All correspondence between agency and vendor pertaining to rejected or withdrawn bids
   - When two or fewer responses are received
     - Agency justification of award with limited competition
     - Canvas of those who did not bid and their responses, if applicable
   - Original bids, including any withdrawn or rejected bids
   - For Emergencies only
     - Signed Declaration of Emergency
     - Three quotes for Emergency
   - Mandatory pre-bid conference and/or site visit sign-in sheet, transcript and items presented or distributed, if applicable
   - If a Rebid, submit original Bid Tab and explanation why contract was rebid
   - Subcontractor list for Campus funded projects under Wibke Law threshold, if applicable
   - Wibke Law Waiver for Campus Let contracts, if applicable
   - Project Labor Agreement and Due Diligence Study, if applicable
   - Any debriefing or protest/appeal correspondence documentation relative to the procurement (Note: all protests, and appeals where provided for, must be resolved prior to submission to OSC)
   - Municipal Resolution/Authority Board Resolution authorizing the Municipality or Authority to enter into contract, if applicable
   - Pre-Bid Cost Estimate
     - Price justification if awarded bid is not within 15% of estimate
     - Revised estimate if awarded bid is higher than the pre bid estimate by more than 15%
   - Procurement Lobbying Act documentation as required by law
   - Sexual Harassment Prevention documentation as required by law

4) Vendor Responsibility and Integrity
   - Vendor Responsibility Profile
   - Vendor Responsibility Questionnaire (or CUNY Construction Fund Vendor Disclosure Form dated 10/2014 or later version as mutually agreed to by the parties) certified within six months of the contracting entity’s defined due date for the Questionnaire (or CUNY Construction Fund Vendor Disclosure Form)
   - Proof of Workers Compensation and Disability Insurance coverage
   - Vendor Responsibility documentation on all known subcontractors
   - Proof of EC 192 compliance as applicable, including any required vendor integrity certification forms

Rev. 01/07/2020
OSC Pre-Audit Checklist

Construction Contract Amendment/Change Order

1) Transaction Identifying Documents
   - Cover Letter with agency contact preferences, FOIL concerns, and any unique or unforeseen circumstances
   - OSC Non-Approval Notice, if resubmission

2) Construction Change Order/Contract Amendment
   - Change Order/Contract Amendment, including a description of all increases and decreases and/or request for time extension

3) Supporting Documents
   - Justification of need, including reasonableness of transaction
   - Justification of price for all increases and decreases
   - Justification of time extension, including estimate of percentage of project completion

4) Vendor Responsibility and Integrity
   - Vendor Responsibility Profile
   - Vendor Responsibility Questionnaire (or CUNY Construction Fund Vendor Disclosure Form dated 10/2014 or later version as mutually agreed to by the parties) certified within six months of the contracting entity’s defined due date for the Questionnaire (or CUNY Construction Fund Vendor Disclosure Form)
   - Proof of Workers Compensation and Disability Insurance coverage
   - Vendor Responsibility documentation on all known subcontractors
   - Proof of EO 192 compliance as applicable, including any required vendor integrity certification forms
SUNY CAPITAL INVESTMENTS INCORPORATE GREEN INITIATIVES THAT:

- **Educate** the clean energy workforce of the future
- **Maximize** energy-efficiency in building components
- **Clean** the grid with 100% renewable grid-sourced electricity
- **Design** deep energy retrofit and new net zero carbon buildings
- **Reduce** carbon output
Incorporating Mass Timber into SUNY Design

Mass (Cross-Laminated) Timber is:

1. **Fire Resistant**
   During a fire resistance test of a 5-ply CLT panel wall, the panel lasted 3 hours and 6 minutes, more than the two-hour rating required.

2. **Strong**
   Mass timber buildings weigh approximately 1/5\(^{th}\) that of comparable concrete buildings, which in turn reduces their foundation size, inertial seismic forces, and embodied energy.

3. **Sustainable**
   Replacing steel with mass timber reduces carbon dioxide emissions between 15\% and 20\%.

4. **Cost-efficient**
   Mass timber buildings are roughly 25\% faster to construct than concrete buildings and require 90\% less construction traffic since mass timber panels are prefabricated off-site and assembled on-site.
Incorporating Design Elements to Meet Energy Goals: Designing SUNY Projects to Maximize Energy Savings

**SUNY’s Energy Profile**

- **Fuel Source (MMBTU)**
  - Natural Gas
  - Electric
  - Steam
  - Wood
  - No. 2 Oil
  - Chilled Water
  - Propane
  - On-Site Renewable Electric
  - Kerosene

**SUNY’s Energy Profile**

- **Fuel Source (MMBTU)**
  - 0
  - 1,000,000
  - 2,000,000
  - 3,000,000
  - 4,000,000
  - 5,000,000
  - 6,000,000
SUSTAINABILITY UPDATE
Net Zero Portfolio Support Program

In April 2019, SUNY and the Fund were awarded $250,000 from NYSERDA as part of the Net Zero Portfolio Support program.

The funding supports the development of performance standards and institutional mechanisms that enable the design, construction and operation of Net Zero buildings.
September 2019 workshop between Fund/SUNY & the NYSERDA consultant team

Topics of discussion included implementation challenges related to:

• Financing
• Types of Projects
• Operations
• Technology
• Design Consultants
• Central Plants
Net Zero Carbon Policy Assessment & Gap Analysis

- Procurement guidance
  - Performance Based Contracting
  - Consultant Interview Questions
  - Owner Project Requirements Template
- Further development design guidelines
- Design Checklists
- Power Purchase Agreements guidance
- Develop campus energy master plans
The NYSERDA consultant team is developing revisions to the Directive 1B-2 “Net Zero Carbon New Buildings and Deep Energy Retrofits of Existing Buildings”

Significant upcoming revisions include:

- Guidance on buildings connected to District Energy Systems
- Establishing EUI goals for new construction and major renovation projects
- Elimination of simple payback approach for component replacement projects
RFP Template for Compliance with 1B-2

RFP for Net Zero Carbon and Deep Energy Retrofit

Project: <project name>
Client: <client name>
SUCF Project #:<SUCF project number>
Architect Project #:<architect’s project number>

Introduction
In July 2018, SUNY State University Construction Fund released Directive 1B-2, with the purpose of defining and identifying goals for Net Zero Carbon new buildings and Deep Energy Retrofits of existing buildings. The goal of the Directive is “to design and construct highly energy efficient buildings which significantly reduce energy consumed below an energy code standard for new buildings or current energy usage for an existing building.”

Appendix A of this RFP includes a description of 1B-2 directive requirements and definitions of commonly used terms in this RFP.

The proposed project shall use the following energy analysis methodology.
<For projects that are 100% new construction>

- Create a code compliant Base Building of the Concept Design compliant with the current NYS Energy Code.
- Incrementally incorporate any additional energy efficiency measures being considered as part of the project Concept Design and confirm that this design would meet Directive 1B-7 goals of achieving LEED Silver certification.
- Using the Base Building model as a reference model, evaluate additional energy efficiency measures that may be required to meet the site EUI and net zero carbon goals in Directive 1B-2.

The Fund created a Request for Proposal (RFP) template for the procurement of consulting services for facilitating compliance with the 1B-2 Directive.
UPDATE to the Energy Conservation Construction Code

The New York State 2020 Energy Conservation Construction Code is anticipated to be published May 2020
Adoption of the NYStretch Energy Code

As part of the adoption of the 2020 New York State Codes, the Fund will adopt the 2020 NYStretch Energy Code.

What is it?
• A more stringent energy code by NYSERDA that can be adopted instead of the NYSECCC.

Why adopt it?
• Amends the 2020 NYSECCC, resulting in an estimated 7% energy savings and 10-11% more energy cost efficient.
• Supports the goals of the Climate Leadership Community Protection Act and 1B-2.
NYStretch Energy Code Key Changes

Building Envelope:
  Improved window performance, increased insulation requirements, air leakage testing, air barrier commissioning

Lighting/Electrical:
  Reduced interior and exterior lighting power, lighting controls, whole-building energy monitoring

Miscellaneous:
  Commercial kitchen equipment efficiencies
Economics of the NYStretch Energy Code
### Economics of the NYStretch Energy Code

#### Commercial Results by Climate Zone:

<table>
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<tr>
<th>Prototype</th>
<th>Energy Cost Savings</th>
<th>Incremental First Cost</th>
<th>Simple Payback</th>
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<tbody>
<tr>
<td>Climate Zone 4A</td>
<td>5.5%</td>
<td>$0.85/SF</td>
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<tr>
<td>Climate Zone 5A</td>
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<td>Climate Zone 6A</td>
<td>9.9%</td>
<td>$1.96/SF</td>
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Energy Code Compliance Paths

NYS ECCC

NYSECC

Prescriptive Path
Total Building Performance

ASHRAE 90.1

Prescriptive Path
Energy Cost Budget
Performance Rating Model
Energy Code Compliance Paths

- NYS ECCC
- Prescriptive Path
  - NYSECC
  - Total Building Performance
- Energy Cost Budget
- Performance Rating Model
- ASHRAE 90.1
ACTIVE AND ANTICIPATED CAPITAL PROJECTS
EXAMPLES OF ACTIVE SUNY CAPITAL PROJECTS

• Shovel-ready
• Environmentally sustainable
• Create job growth
• Improve infrastructure
• Offer long term ROI
Renovate Marvin Tode Science and Engineering Building, $27.4M

- **Shovel-ready**
  In design, first phase ($4M) to bid in Spring 2020

- **Environmentally sustainable**
  Anticipated to meet or exceed energy goals

- **Creates job growth**
  Will create construction or construction-related 150 jobs

- **Improves infrastructure**
  FCI is at 23.6%

- **Long term ROI**
  Engineering Enrollment Has Increased by 9% since 2010, with employment rates in this discipline projected to increase by more than 13%.
ONEONTA:
Rehabilitate Alumni Hall for Economics and Business, $24.7M

✓ Shovel-ready
  Currently in design, construction bid Fall 2020

✓ Environmentally sustainable
  Anticipated to meet or exceed energy goals

✓ Creates job growth
  Will create 134 construction or construction-related jobs

✓ Improves infrastructure
  FCI is at 33.6%

✓ Long term ROI
  Business and Economics enrollment increased 47% since 2010, with employment rates in this discipline projected to increase by more than 13%.
Renovate Farnsworth Hall for Veterinary Science, $28.2M

- **Shovel-ready**
  Currently in design, first phase for surge space ($3M) is in construction

- **Environmentally sustainable**
  Anticipated to meet or exceed energy goals

- **Creates job growth**
  Will create 190 construction or construction-related jobs

- **Improves infrastructure**
  FCI is at 25.8%

- **Long term ROI**
  Vet Science enrollment increased 11% since 2015, with employment rates in this discipline projected to increase by nearly 20%.
GENESEO:
Renovate Sturges Hall, $34.2M

✓ Shovel-ready
   In design, first phase for demo and abatement ($9.4M) to bid Spring 2020

✓ Environmentally sustainable
   Anticipated to meet or exceed energy goals

✓ Creates job growth
   Will create 196 construction or construction-related jobs

✓ Improves infrastructure
   FCI is at 52.5%

✓ Long term ROI
   Social Science enrollment has increased by 17% since 2010, with employment rates in this discipline projected to increase by 13%.
**OSWEGO:**
Renovate Hewitt Hall, $75.1M

- **Shovel-ready**
  In design, first phase for abatement and demo ($22M) to bid in late 2020

- **Environmentally sustainable**
  Anticipated to meet or exceed energy goals

- **Creates job growth**
  Will create 415 construction or construction-related jobs

- **Improves infrastructure**
  FCI is at 30.2%

- **Long term ROI**
  Communications Enrollment has increased by 10% since 2010, with employment rates in this discipline projected to increase by nearly 9%.
## Additional Examples of Planned High-Priority SUNY STEM Capital Projects

<table>
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<tr>
<th>University</th>
<th>Project Description</th>
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<tbody>
<tr>
<td>University at Albany</td>
<td>Renovate former Albany High School for College of Engineering and Applied Sciences</td>
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<tr>
<td>University at Buffalo</td>
<td>Construct new Engineering Building to accommodate growth in School of Engineering &amp; Applied Sciences</td>
</tr>
<tr>
<td>Stony Brook University</td>
<td>Construct new multi-disciplinary Engineering Building to accommodate growth in School of Engineering &amp; Applied Sciences</td>
</tr>
<tr>
<td>Cornell</td>
<td>Renovate Plant Science Building</td>
</tr>
<tr>
<td>Environmental Science &amp; Forestry</td>
<td>Renovate Illick Hall for Environmental Forest Biology</td>
</tr>
<tr>
<td>Optometry</td>
<td>Renovate 7th Floor for Clinical Services</td>
</tr>
<tr>
<td>Upstate Medical University</td>
<td>Renovate Silverman Hall for Health Professions</td>
</tr>
<tr>
<td>Old Westbury</td>
<td>Rehabilitation of Natural Science Building</td>
</tr>
<tr>
<td>Purchase</td>
<td>Renovation of Natural Science Building</td>
</tr>
</tbody>
</table>
PROJECT AWARDS AND RECOGNITION
In May 2019, the Jeffrey J. Zogg – Build NY Award was awarded to the Pharmacy project.
BINGHAMTON: RENOVATE SCIENCE IV
Science IV was featured on the March 2019 cover of American School and University Magazine, recognized for breathing ‘new life into an older building with a modernization that embraces a facility’s link to the past while providing learning spaces that accommodate the needs of 21st-century students.’
FREDONIA: RENOVATE ROCKEFELLER ARTS CENTER (RAC)
The RAC Project received a 2019 American Institute of Architects New York State Excelsior Award for Public Architecture Design.
Milne Library was the First Place winner in the 2019 American Society of Interior Designers Award for Large Commercial Design.