



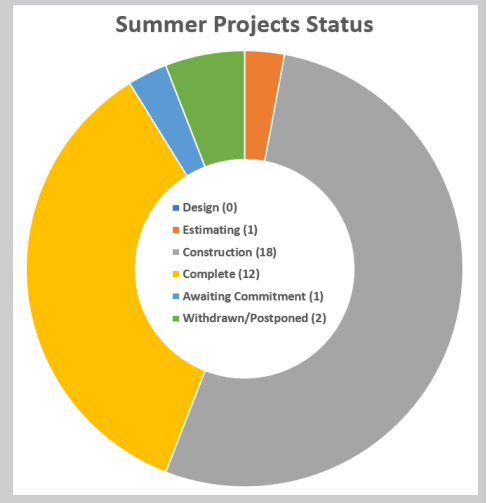
**From the Director's Desk...**

There is a great deal of activity across campus. Every summer, Physical Plant takes on additional work to ready the campus for another academic year. Loads of construction and major repair work are crammed into the summer so that we can take advantage of the lower occupancy and accommodating weather.

Keeping campus facilities and infrastructure operating requires a dedicated, round-the-clock effort, but in the summer our staff goes above and beyond to get more done.

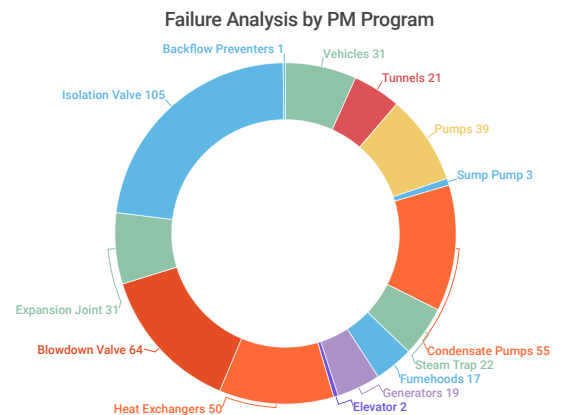
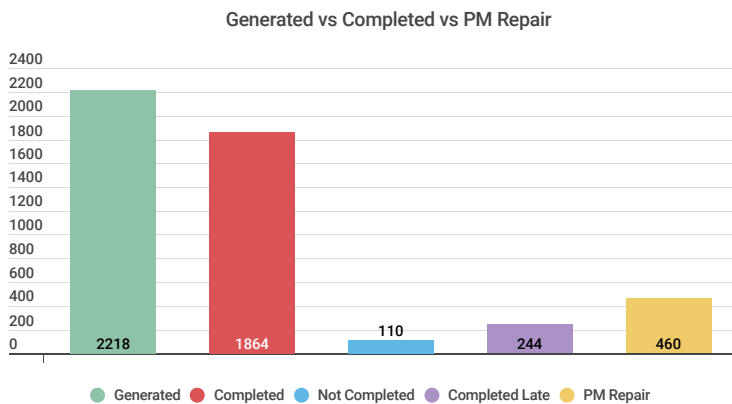
Enjoy the update and please be mindful of the activity across campus.

—Jay Bieszke



**PREVENTIVE MAINTENANCE**

In April, Physical Plant technicians completed more than 1,800 PM activities and generated 460 follow-up repairs.



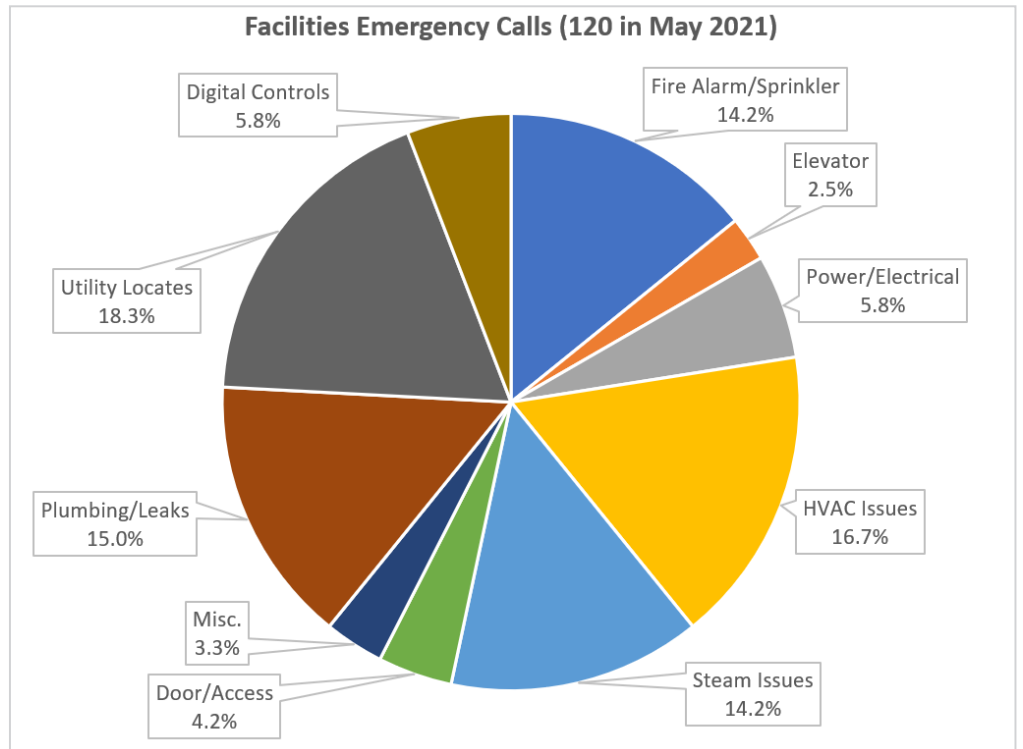
**PROJECTS SUBSTANTIALLY COMPLETED—MAY 2021**

Eight projects (worth \$220K) reached substantial completion during the past month.

Project Number	Building	Description	Value
PRJ-21-002195	Birge Hall	Remodel Room	\$113K
PRJ-21-002264	Birge Hall	Renovate Multiple Rooms	\$21K
PRJ-21-002415	Van Vleck Hall	Install AV System	\$11K
PRJ-21-002349	Computer Science	Update 4th Floor Hallway	\$14K
PRJ-21-002301	Medical Foundation Centennial Bldg	Sound Mitigation	\$14K
PRJ-21-002416	Van Vleck Hall	Install AV System	\$10K
PRJ-21-002427	Hasler Limnology Building	Restroom Upgrade	\$25K
PRJ-21-002361	Van Hise Hall	Install AV System	\$12K
<b>Total Value of Work (Final Amount TBD)</b>			<b>\$220K</b>

## BREAKDOWNS AND EMERGENCY CALLS

There were 120 facilities emergency calls in May 2021 and no major facilities issues.



## ACTIVE FACILITIES-RELATED INSURANCE CLAIMS (LOSS EXCEEDING \$25K)

Since the last report, facility repairs for the following insurance claims were completed:

- **Vandalism (July 31, 2020).** Hagenah Fountain (Library Mall); approximately \$26K.
- **Water Damage (February 6, 2021).** School of Social Work; approximately \$130K.
- **Burst Pipes (February 15-17, 2021).** Agricultural Engineering, Sterling Hall, and Charmany Veterinary Medicine; approximately \$25K.
- **Water Damage (February 11, 2021).** Bardeen Medical Laboratory; approximately \$30K.

All work to address claims incurred prior to March 24, 2021 is substantially complete, with two exceptions:

- **Wind & Hail Damage (July 27, 2020).** Peninsular Agricultural Research Station, Sturgeon Bay repairs are at 30%; expected completion delayed until July due to weather. Approximate cost: \$40K.
- **Electrical Failure (August 25, 2020).** Microbial Science Substation repair is expected to continue until July 2021. Work is approximately 35% complete. Approximate cost: \$600K.

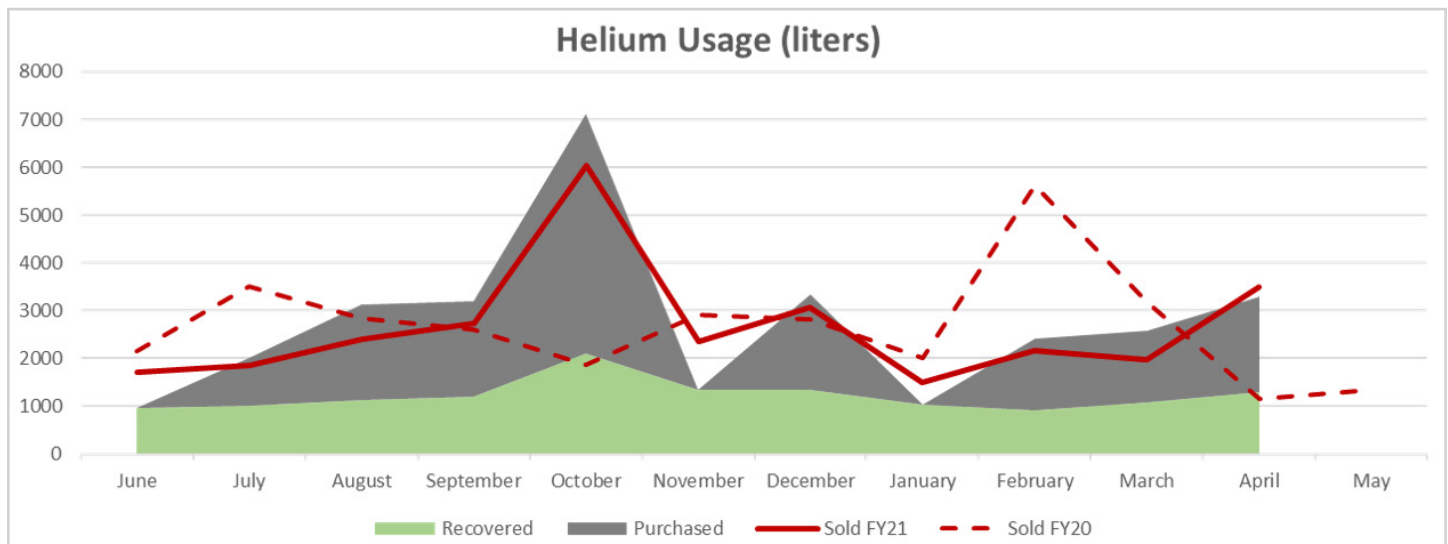
After March 24, there were two wind events, one water related event, and four property-related events totaling approximately \$184k. Small claims (<\$25K) are not included below.

- **Wind Damage (April 11 2021).** UW Medical Foundation Centennial Building roof components blew off. Roof assembly is being redesigned for better wind resilience; construction is expected to take place in fall of 2021; approximately \$115K.
- **Property Damage (May 11, 2021).** At HSLC exterior façade damage due to departmentally contracted vendor. Completion is expected in fall of 2021; approximately \$25K.

## HELIUM PLANT OPERATIONAL UPDATE

UW-Madison's average helium demand from January through March was 1,900 liters. This increased in April to 3,500 liters, primarily in support of two National Magnetic Resonance cool-downs at Chemistry and Biochemistry.

- The university's cost for external purchase price of helium increased in April from \$14.59 to \$15.28 per liter per contract with AirGas.
- Pump upgrades are continuing at WIMR. Work slowed by contamination caused by equipment malfunction.
- Liquefier operation has been normal except for one week in April when the system was down for leak repair.



## CAMPUS ENERGY – OUR COLLECTIVE DRIVE FOR EFFICIENCY

Physical Plant Utilities & Energy Management makes continuous operational improvements to achieve a more efficient use of energy and reduce overall consumption. Facility and infrastructure improvements have resulted in a 25 percent reduction in energy consumption since 2005.

On a more granular level, we track the energy consumption of many facilities, including several “energy hogs.” We still have many opportunities to improve how we use and operate buildings to make further reductions.

The table at right illustrates our campus energy consumption is largely influenced by eleven of the largest consumers on campus.

Energy Use Intensity (EUI) , measured in kBtu/GSF, is an industry measure used to track the comparative operational efficiency of a building while taking into consideration changes in campus size and changes in climatic conditions. While the building’s design and thermo-physical properties of the building elements have a major impact, behavior and operational demands can also have a substantial impact on building energy consumption. Even small changes in these facilities can have a great impact to the university’s budget and impact on the environment.

### FY20 Energy Intensity (Top 15 Consumers)

Facility	Energy Intensity (kBtu/GSF)
Bock Laboratories	484.6
Biotron	463.2
Chemistry	451.5
Wisconsin Institute for Medical Research	381.0
McArdle Building	333.8
Wisconsin Energy Institute	331.5
American Family Children's Hospital	301.0
Russell Laboratories	300.7
Engineering Centers Building	297.0
Rennebohm Hall	291.0
Veterinary Medicine	242.2
<b>Overall Campus Average</b>	<b>231.7</b>
Engineering Hall	186.8
Mechanical Engineering	128.2
Cooper Hall	96.4
Union South	95.4

# SUMMER 2021 PROJECT STATUS

## Operationally Critical Projects Underway for Summer 2021 Construction

Summer 2021 in-house construction efforts are fully underway. This year projects were selected based on a collective effort that included representatives from SMPH, L&S, CALS, VCRGE, CoE, and DoIT. The ad-hoc team collaboratively prioritized projects and identified the ones that would have the greatest impact to the University’s mission and benefitted from reduced summertime campus occupancy.

### Current Status Summary

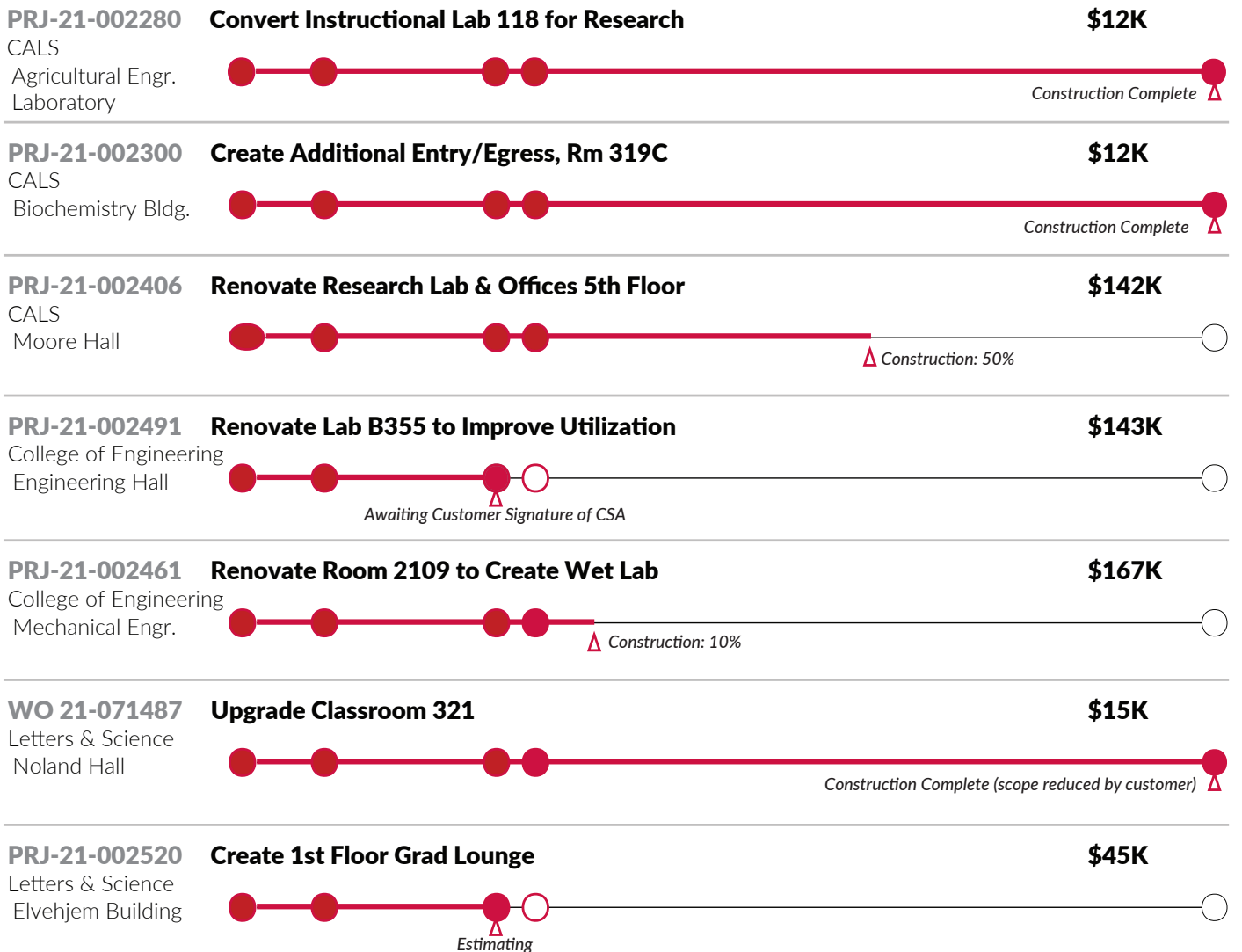
Design	0
Estimating	1
Construction	18
Complete	12
Awaiting Commitment	1
Customer Withdrawn/Postponed	2

### KEY

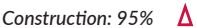










#### Project Milestones / Progress

Projects generally follow a series of standard milestones as we work with the customer to clarify scope, design, and the details; and conduct detailed work planning, order materials, and execute construction.

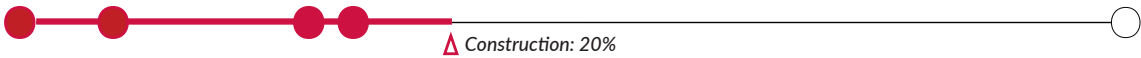
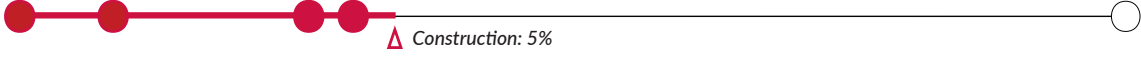
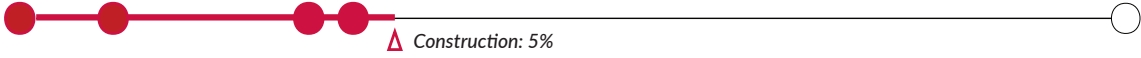
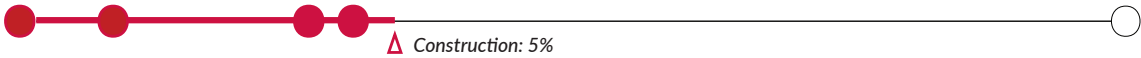



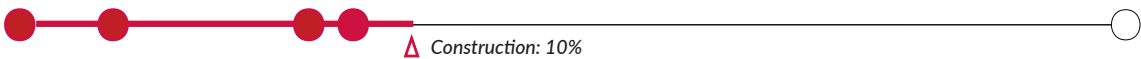
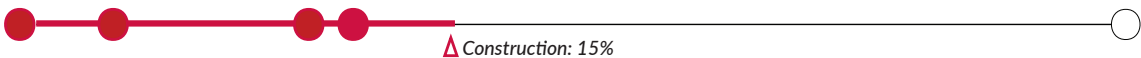
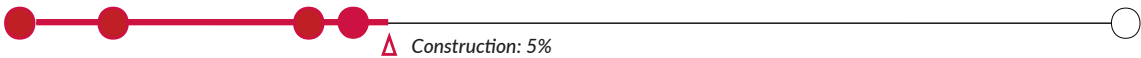
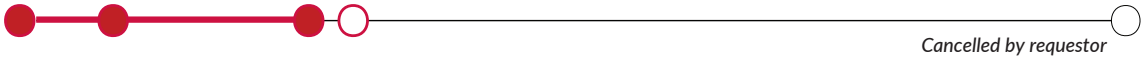

### Milestones








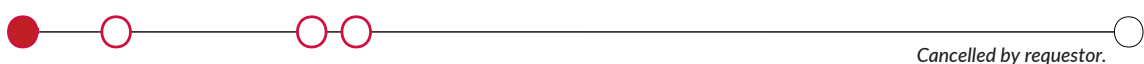

## SUMMER 2021 RENOVATION PROJECTS, CONTINUED

<b>PRJ-21-002195</b> Letters & Science Birge Hall	<b>Renovate Sample Containment Lab B244</b>	<b>\$114K</b>	Construction: 95% 
<b>PRJ-21-002204</b> Letters & Science Integrative Biology Research Building	<b>Create Research Lab 124-128 for Incoming PI</b>	<b>\$30K</b>	Construction Complete 
<b>PRJ-21-002223</b> Letters & Science Integrative Biology Research Building	<b>Renovate Research Lab Rm 28 for Incoming PI</b>	<b>\$66K</b>	Construction: 35% 
<b>PRJ-21-002243</b> Letters & Science Integrative Biology Research Building	<b>Renovate Research Lab 116-120 for Incoming PI</b>	<b>\$190K</b>	Construction: 75% 
<b>PRJ-21-002264</b> Letters & Science Birge Hall	<b>Renovate Research Lab 347-351 for Incoming PI</b>	<b>\$21K</b>	Substantially Complete: 95% 
<b>PRJ-21-002443</b> Letters & Science Social Sciences	<b>Update Class Lab 5310 - ILM</b>	<b>\$20K</b>	Construction: 85% 
<b>PRJ-21-002442</b> Letters & Science Sterling Hall	<b>Update Class Lab 3517- ILM</b>	<b>\$22K</b>	Construction: 45% 
<b>PRJ-21-002364</b> Letters & Science Birge Hall	<b>Update Class Lab - ILM</b>	<b>\$117K</b>	Construction: 60% 
<b>PRJ-21-002146</b> Letters & Science Computer Science	<b>Renovate Research Lab 1351 or 1355</b>	<b>\$25K</b>	Construction Complete 
<b>PRJ-21-002174</b> Letters & Science Computer Science	<b>Renovate Conference Rooms 3310, 3410</b>	<b>\$27K</b>	Construction Complete 
<b>PRJ-21-002344</b> Letters & Science Weeks Hall	<b>Renovate Lab Support Room 270 - ILM</b>	<b>\$197K</b>	Construction: 5% 

SUMMER 2021 RENOVATION PROJECTS, CONTINUED

<b>PRJ-21-002446</b> Letters & Science Humanities	<b>Upgrade Classroom 1561 - ILM</b>	<b>\$66K</b>	 Construction: 20%
<b>PRJ-21-002445</b> Letters & Science Humanities	<b>Upgrade Classroom 1351 - ILM</b>	<b>\$32K</b>	 Construction: 5%
<b>PRJ-21-002488</b> Letters & Science Chamberlin Hall	<b>Renovate Research Lab 4528 to Add Equipment</b>	<b>\$165K</b>	 Construction: 5%
<b>PRJ-21-002486</b> Letters & Science Vilas Hall	<b>Improve Classrooms, Labs</b>	<b>\$80K</b>	 Construction: 5%
<b>PRJ-21-002354</b> School of Education Teacher Education	<b>Combine Rooms 564, 566 to Create Larger Classroom</b>	<b>\$70K</b>	 Construction: 80%
<b>PRJ-20-002111</b> SMPH Wisconsin Institutes for Medical Research	<b>Renovate Research Lab B1073</b>	<b>\$106K</b>	 Construction Complete
<b>PRJ-21-002270</b> SMPH Medical Foundation Centennial Bldg.	<b>Renovate Office 5177 to Increase Occupancy</b>	<b>\$8K</b>	 Construction Complete
<b>PRJ-21-002474</b> SMPH Wisconsin Institutes for Medical Research	<b>Relocate Research Lab 7120/A to 7162/3</b>	<b>\$118K</b>	 Construction: 10%
<b>PRJ-21-002304</b> SMPH Wisconsin Institutes for Medical Research	<b>Renovate Research Lab 7168 to Add Fume Hoods</b>	<b>\$7K</b>	 Construction: 15%
<b>PRJ-21-002355</b> SMPH Medical Foundation Centennial Bldg.	<b>Install Services 4th &amp; 5th Floors for Occupancy Increase</b>	<b>\$148K</b>	 Construction: 5%
<b>PRJ-21-002412</b> WSLH Stovall Hall	<b>Install CO2 Sensors</b>	<b>\$11K</b>	 Cancelled by requestor
<b>PRJ-21-002361</b> FP&M Van Hise Hall	<b>Upgrade Classroom 215 AV - ILM</b>	<b>\$13K</b>	 Construction Complete

## SUMMER 2021 RENOVATION PROJECTS, CONTINUED

<b>PRJ-21-002415</b>	<b>Upgrade Classroom B115 AV - ILM</b>	<b>\$11K</b>
FP&M Van Vleck Hall		Construction Complete 
<b>PRJ-21-002416</b>	<b>Upgrade Classroom B139 AV - ILM</b>	<b>\$10K</b>
FP&M Van Vleck Hall		Construction Complete 
<b>PRJ-21-002454</b>	<b>Upgrade Classrooms 1217, 1221 Lighting Systems</b>	<b>\$19K</b>
FP&M Humanities		Construction: 5%
<b>N/A</b>	<b>Renovate Research Lab 634 to Add Equipment</b>	
CALS Animal Science		Cancelled by requestor. 

## CONE ZONE—COMMUNICATES WEEKLY CONSTRUCTION IMPACTS

Physical Plant publishes a weekly communication about upcoming and ongoing work, called *The Cone Zone*. This document includes the location, type of work, and contact information for projects that might impact the campus community.

The University relies on facility managers to keep the faculty, staff, students, and others in campus buildings informed about projects that affect them. The Cone Zone provides facility managers and other key stakeholders with critical information they need and specific points of contact if they have questions or concerns.

Each Cone Zone entry includes an annotated map and other key information about the project (example at right).

Inquire with your facility manager to see the latest Cone Zone. To be added to the Cone Zone weekly distribution list, please contact Physical Plant Customer Service at 608-263-3333 or email [ppcustomerservice@fpm.wisc.edu](mailto:ppcustomerservice@fpm.wisc.edu).

Illustration of the project area with geographical context, viewed from above, either satellite image or cropped from campus map, with highlighting and/or markup added.



### Building Name

Street Address

Description of work, potential impacts, and mitigation steps planned.

Estimated Begin and End dates

Point of Contact Name – Shop or Organization Name, WO # or Project # for reference.

Point of Contact phone + email