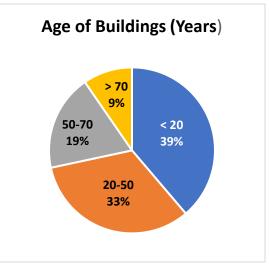


## **2021-23 Capital Improvement Priorities**

The University of North Carolina System is one of the largest property managers in the state. The System is entrusted with over 3,000 buildings, more than \$27 billion in public assets that support the System's mission of teaching, research, and public service. From the humblest maintenance shed to the grandest auditorium, these buildings belong to the people of North Carolina. The System's campuses and research facilities were built with generations of public investment, and it the System's duty to preserve that investment for generations to come.

Meeting that responsibility has been a challenge. The facilities are aging, with almost 30 percent of buildings more than 50 years old. Of the System's 84 million total gross square feet (GSF), 45 million GSF is made up of appropriated buildings. Facility assessments, called FCAP reports, conducted periodically by the State Construction Office have identified \$3.42 billion in building deficiencies in appropriated buildings, including some critical life safety and code compliance issues.

Yet repair and renovation funding has varied widely over the System's recent history, averaging only \$32 million per year over the last decade. As a result, the buildings in the UNC System are suffering from the many years of deferred



maintenance. Left unaddressed, the cost of deferred maintenance escalates rapidly over time and increases the risk of critical system failures, resulting in unexpected disruption of services and costly emergency repairs. Further, as the System responds to changing student, programmatic, and research needs, how we utilize our space must change accordingly.

That is why we are focusing our efforts in the years ahead on caring for the University's existing space. These priorities lay out the most crucial needs across the state and our plan for a more cost-effective approach to maintenance and renovation. It is clear the System's role is not just as the trustee of valuable public infrastructure, but as a steward of North Carolina's culture and history. From Elizabeth City to Cullowhee, our campuses host architectural landmarks and centers of community life. This plan protects and preserves some of our state's most valuable places.

### 1. Repair, Renovation, and Rehabilitation: \$491,175,000

The System's top priority is working through the significant backlog of critical maintenance needed to preserve our existing facilities. Timely and consistent investment in facilities can reduce deferred maintenance costs for the System and the state, extend the life and efficiency of existing buildings, and reduce costly repairs due to critical system failures, unexpected disruption of services, increased urgency to restore operations, and the compounding impact of neglected maintenance and deterioration on other areas of the building or infrastructure.

Attachment A provides a list of recommended projects focused on the following priorities:

- Roof replacement, water intrusion mitigation, or building envelope repairs that allow buildings to remain in use and prevent further deterioration;
- System replacements (such as HVAC, electrical, fire alarms, elevators, etc.) of failing or obsolete systems that directly impact the continued occupancy of the building;
- Repair or replacement of critical plant operations or infrastructure that directly supports
  operation of critical core-mission buildings; this should not include the expansion or upgrade of
  any infrastructure to support new construction; and
- Demolition of vacant buildings.

In addition, the System requests the General Assembly appropriate funds to support smaller, but equally important, maintenance repairs and renovation (R&R) projects. Maintenance R&R funds would be allocated among campuses using the formula approved by the Board of Governors on September 20, 2019. This formula considers each campuses' gross square footage, total number of buildings, building condition, full-time student enrollment, and the ability to pay (based on the availability of carry-forward funds, F&A fund balances, infrastructure fees, and other funding for R&R earmarked projects). Funding would be used for the maintenance R&R priorities listed in **Attachment B** or other urgent maintenance needs that arise, subject to System Office approval.

### 2. Comprehensive Renovation and Facility Modernization: \$468,050,000

While the FCAP methodology provides an estimate of necessary repairs, it *does not* address improvements needed to improve functionality or update outdated space. Many aging facilities are simply inadequate to support current academic and research needs. For example, as institutions expand their focus on Science, Technology, Engineering, and Math (STEM) disciplines, the demand for lab space increases. Science labs require specialized ventilation, plumbing, and mechanical systems to protect building occupants and the integrity of the testing environment. Likewise, modern classrooms require technology and electrical capabilities beyond what many aging buildings can provide. Increased student enrollment and demand for more collaborative learning space require space to be repurposed and reconfigured.

Rather than spending limited resources on costly new construction, the state should invest in comprehensive renovations of existing facilities to extend their useful life, improve space utilization, and align with programmatic priorities. **Attachment C** provides a list of recommended priorities for comprehensive renovation and modernization projects.

# 3. Advanced Planning Funds for New Construction Projects Previously Authorized by the General Assembly: \$35,500,000

#### S.L. 2020-81

In addition to the priorities identified above, the General Assembly is expected to appropriate additional funding for two new construction projects authorized in S.L. 2020-81. This legislation enacted total project authorizations and appropriated \$7 million in advanced planning funds for each project. It also required both institutions to provide funding equal to half of the total project authorization by June 30, 2022, as a match for the intended state allocations.

S.L. 2020-81 also planned to allocate an additional \$7 million for advanced planning from the Coronavirus Relief Fund (CRF), but S.L. 2020-97 subsequently repealed this language due to federal

limitations on the allowable uses of CRF funds. The General Assembly is expected to appropriate these additional advanced planning funds for FY 2021-22 and further funding for construction once the required non-state match has been confirmed.

Institution	Project	<b>Enacted Total Project</b>	FY 2021-22	FY 2022-23
		Authorization		
NCSU	STEM Building	\$160,000,000	\$7,000,000	Additional
UNC-CH	Business School	\$150,000,000	\$7,000,000	allocations pending non-state match

### Health Science Facilities included in H.B. 966

During the 2019 Session, the General Assembly passed H.B. 966, which included a number of capital projects for the UNC System, including two new construction projects for health sciences facilities: 1) Brody School of Medicine at East Carolina University and 2) Health Science Center at UNC Pembroke. H.B. 966 was ratified, but later vetoed by the Governor and therefore, was never enacted into law. Given the state's healthcare workforce needs, the General Assembly may consider appropriating advanced planning funds for these two projects.

Institution	Project	H.B. 966 Total Project	FY 2021-22	FY 2022-23
		Authorization		
ECU	Brody School of Medicine	\$215,000,000	\$15,000,000	Additional
UNCP	Health Sciences Center	\$91,000,000	\$6,500,000	allocations pending advanced planning

# University of North Carolina FY 2021-23 Capital Improvement Priorities

# Attachment A Immediate Repair, Renovation, and Rehabilitation Needs

University	Project	FY21-23
Appalachian State	Wey Hall Envelope and Roof Repair	\$5,000,000
Appalachian State	Wey Hall Partial Renovation - Building Systems	\$10,000,000
East Carolina	Brody High Rise Code Compliance - Phase 2	\$6,000,000
East Carolina	Main Campus - College Hill Drive Steam - Phase 3	\$2,500,000
East Carolina	Whichard Building Comprehensive Renovation	\$10,000,000
East Carolina	Speight Building Roof, Window, and Envelope Replacement	\$4,000,000
East Carolina	Chilled Water Extension to Whichard & Graham	\$6,475,000
East Carolina	Main Campus-Relocate Steam & Condensate - Phase 1	\$5,000,000
East Carolina	Health Science Building Envelope Infiltration Repairs	\$5,000,000
Elizabeth City State	Repair Campus Main Switch	\$700,000
Elizabeth City State	Repair Campus Pump Station	\$650,000
Elizabeth City State	Infrastructure Upgrades - Water & Electrical, Phase 1	\$12,000,000
Elizabeth City State	Emergency Generator Power - Operations	\$4,900,000
Elizabeth City State	Emergency Generator Power - Residence Halls	\$2,100,000
Elizabeth City State	Campus-wide Lockdown System	\$2,000,000
Elizabeth City State	Building Demolition - Four Buildings	\$1,500,000
Elizabeth City State	Butler Residence Hall Renovations	\$2,500,000
Fayetteville State	Lyons Science Renovation	\$1,500,000
Fayetteville State	Butler Renovation - HVAC, Bldg Envelope, Fire Alarm	\$3,450,000
Fayetteville State*	A.B. Rosenthal Building - Targeted Renovation	\$10,000,000
Fayetteville State	Campuswide Utility Infrastructure	\$9,950,000
NC A&T*	Carver Hall Comprehensive Modernization-Phase 1	\$9,700,000
NC A&T	Price Hall Renovation- Phase 1	\$8,000,000
NC A&T	Marteena Hall Renovation	\$9,100,000
NC Central*	Lee Biology Renovation	\$8,100,000
NC School of Science and Math	HVAC Campus Wide Renovations	\$2,000,000
NC School of Science and Math	Chiller Replacement	\$3,000,000
NC School of Science and Math	Building Envelope Repairs	\$5,850,000
NC State	Page Hall - Bldg Envelope Repairs & Plumbing Upgrades	\$4,000,000
NC State	Scott Hall - HVAC Renovation	\$5,000,000
NC State	Mann Hall - HVAC and Plumbing Renovation	\$10,000,000
NC State	Kilgore Hall - HVAC Renovation	\$10,000,000
NC State	Domestic Water Line Replacement-North and Central Campus	\$4,303,000
NC State	Fire Protection Systems - Poe Hall	\$3,500,000
NC State	HVAC Renovation - Thomas Hall	\$4,000,000
UNC Asheville	Campus Safety Improvements, Access Control, Cameras	\$2,300,000
UNC Asheville	Campus Roadway Repairs	\$4,400,000
UNC Chapel Hill	Wilson Library - Means of Egress	\$9,300,000
UNC Chapel Hill	Swain Hall - Targeted Renovation	\$5,800,000
UNC Chapel Hill	Phillips Hall - 1958 Central HVAC System	\$6,000,000
UNC Chapel Hill	Hamilton Hall - Central HVAC System	\$8,800,000

<sup>\*</sup>Project included in H966, which was ratified, but not enacted into law.

University	Project	FY21-23
UNC Chapel Hill	Wilson Library - 1953 Central HVAC System AHU 1 & 2	\$7,000,000
UNC Chapel Hill	Wilson Library - 1953 Central HVAC System AHU 3	\$4,000,000
UNC Charlotte	Atkins Library Tower - ADA & Elev	\$10,000,000
UNC Charlotte	Smith Replace HVAC & Controls, Envelope, Replace Roof	\$5,950,000
UNC Charlotte	Atkins Library Tower - Fire and Smoke Systems	\$3,840,000
UNC Charlotte	Woodward Controls and Lab HVAC Modernization	\$2,700,000
UNC Charlotte	Friday HVAC, Controls, and Electrical Upgrade	\$9,700,000
UNC Greensboro	Coleman Fire Alarm Replacement	\$2,440,000
UNC Greensboro	Steam Distribution Replacement Phase IV -B	\$1,550,000
UNC Greensboro	Campus Chiller Water Infrastructure & Equip Improvemts	\$10,400,000
UNC Pembroke	Demolition of Jacobs Hall with Site Restoration	\$1,250,000
UNC Pembroke	Campus Roof Replacement - Various	\$1,500,000
UNC Pembroke	Campus Safety and Regional Emergency Response Center	\$4,480,000
UNC School of the Arts	Stevens Center - Roof, Water Intrusion, Bldg Envelope	\$4,800,000
UNC School of the Arts	Gray Building - Roof, Bldg Envelope, HVAC, Fire Suppression	\$3,350,000
UNC School of the Arts	Replace Roofs - Performance Place, Workplace, WPV	\$2,435,000
UNC Wilmington	Coastal Marine Studies - Plumbing, Mech, Elec Renovation	\$9,930,000
Western Carolina	Killian Building - HVAC Upgrades, Window Replacement	\$3,570,000
Western Carolina	Reid Building - Roof Replacement	\$2,520,000
Western Carolina	Moore Building - Abatement, Demo & Struct Improvmts	\$7,100,000
Western Carolina	Moore Building - Infrastructure and Accessibility	\$4,200,000
Winston Salem State*	Restore the Core - Hauser Hall Renovations	\$9,500,000
UNC-TV	Tower Lighting, FAA Markers, Tower Elev Repair	\$2,200,000
UNC-TV	Bryan Center - Replace HVAC Air Handler and Controls	\$2,707,000
UNC-TV	Bryan Center - Chiller and Cooling Tower Replacement	\$1,120,000
NC Arboretum	Infrastructure Restoration and Road Repairs	\$1,000,000
	Maintenance R&R Projects: Smaller projects focused only on the	
	repair and renovation of state facilities and related infrastructure as	
	defined in G.S. 143C-4-3(b). Attachment B provides a detailed list	
Systemwide	identified priorities by campus.	\$143,555,000
	Total	\$491,175,000

# University of North Carolina FY 2021-23 Capital Improvement Priorities

Institution	R&R Category	Project	Project Total
ASU	4	Walker Hall HVAC Repair and Upgrades	\$500,000
ASU	2	Walker Hall Envelope and Structural Repair	\$1,300,000
ASU	4	Campus Wide Electronic Door Access Installation	\$1,500,000
ASU	1	Chapell Wilson Gutter/Soffit/Roof Replacement	\$600,000
ASU	1	Smith Wright Hall Roof Repair and Replacement	\$1,000,000
ASU	4	Holmes Convocation Center Chiller	\$1,000,000
	4		
ASU ASU	2	BB Dougherty Chiller Repair  Facilities Operations (Metargood Well Repairs	\$100,000
	4	Facilities Operations/Motorpool Wall Repairs	\$300,000
ASU ASU	4	John E Thomas Chiller Compressor Upgrades	\$250,000 \$500,000
		Anne Belk Hall Hot Water Piping Replacement	
ASU	4 2	Edwin Duncan Hall HVAC and Lighting Improvements	\$800,000
ASU		John E Thomas Envelope	\$300,000
ASU	11 4	Howard Street Hall Road Opening	\$200,000
ASU		Holmes Convocation Center VAV Replacement	\$150,000
ASU	4	Peacock Elevator Upgrade	\$200,000
ASU	6	University Hall Sprinkler System	\$250,000
ECU	4	Brody Building Freight Elevators - Emergency Power	\$250,000
ECU	4	Science & Technology Replace Roof	\$400,000
ECU	11	Old Cafeteria Building Install Steam Manhole and Replace Piping	\$300,000
ECU	2	Health Science Campus Catwalks Central Utility Plant	\$225,000
ECU	1	Warren Life Sciences Replace Roof Section B	\$300,000
ECU	4	Health Science Campus Central Utility Plant Transformer 1 & Transformer 2	\$404,000
ECU	5	Bate Upgrade Elevators (2)	\$350,000
ECU	1	Rivers Replace Roof	\$300,000
ECU	1	Christenbury Replace Roof	\$410,000
ECU	2	Brody Building Envelope Infiltration Repairs Phase 1	\$1,500,000
ECU	11	Brody Chilled Water Loop Valve Replacement	\$100,000
ECU	2	Jenkins Art North Building Envelope Repairs	\$1,750,000
ECU	1	McGinnis Scene Shop Replace Roof	\$100,000
ECU	4	Brody - Inline Fan Replacement Phase 1	\$200,000
ECU	4	Jenkins Art Replace Distribution Sub Panels Westside Jenkins Art	\$225,000
ECU	5	Messick Upgrade/Replace Elevator	\$150,000
ECU	5	Building 127 Upgrade/Replace Elevator	\$150,000
ECU	2	Coastal Studies Annex Repair and Coat Siding and Roofing	\$100,000
ECU	4	School of Dental Medicine Community Service Learning Centers Upgrades (HVAC & Indoor Air Quality)	\$203,000
ECU	11	Main Campus Steam Plant - Install Steam Blanket for Boilers	\$100,000
ECU	5	McGinnis Auditorium Upgrade/Replace Elevator	\$300,000
ECU	4	Brewster HVAC Controls Optimization - D Wing	\$400,000
ECU	4	Greenville Centre HVAC Controls Upgrade (Specific Remote Terminal Unit Variable Air Volumes)	\$300,000
ECU	4	Plate and Frame Heat Exchanger for Science & Technology Central Chiller Plant w/ Controls Upgrade	\$300,000
ECU	4	Old Cafeteria Building Controls (Specific Direct Digital Control) Upgrade	\$300,000
ECU	4	Carol Belk Building HVAC system (Specific Variable Air Volume integration)	\$300,000
ECU	4	Rivers Building HVAC System (Specific Variable Air Volume) to Trane	\$300,000
ECU	4	Austin Building Air Handlers Replacement	\$1,500,000
ECU	6	Warren Life Sciences Extend Sprinkler System to Original Section	\$181,000
ECU	5	Building 43 Upgrade Freight Elevator Replace Shaft and Jack	\$230,000
ECU	4	Main Campus Replace Power Distribution System Steam Plant	\$250,000
ECU	4	Biotechnology Building Upgrade Laboratory Exhaust System	\$452,000
ECU	4	Biotechnology Building Replace Exhaust Fans	\$130,134
ECU	11	Repair and Repave Service Drive at West End Dining Behind White Residence Hall	\$150,000
ECU	6	Wright Building/Wright Auditorium Fire Alarm System Upgrade	\$300,000
ECU	1	Old Cafeteria and Ragsdale Annex Replace Roof	\$240,000
ECU	4	Brody School of Medicine Replace Computer Room Air Conditioning (CRAC) Units GE-99	\$200,000
ECU	6	Cotanche Data Center - Renovations to Improve Fire Protection System in Data Rooms (Specific FM 200)	\$210,000
ECSU	4	Underground Infrastucture - Replace all campus plumbing gate valves/infrastructure for fire pump	\$150,000
ECSU	4	Underground Infrastucture - Replace 6" with 8" line to improve water volume on campus north	\$300,000
ECSU	9	Jenkins Hall (Phase 2) - Renovation Laboratory and Classroom (Phase 1 starts in 2020-21 R&R Year)	\$400,000
	•	Vaughn Center - Repair student phys ed learning spaces (pool, flooring, ceilings & building envelope)	\$550,000
ECSU	9		
ECSU ECSU	9 1	Fine Arts - Roof Replacement	\$200,000
			\$200,000 \$400,000

Institution	R&R Category	Project	Project Total
ECSU	9	Lester Hall - Demolition	\$495,000
		Barber/Collins Admin Complex: roof replacement	\$200,000
FSU	1	· · · · · · · · · · · · · · · · · · ·	
FSU	4	Campuswide: exterior lighting retrofit	\$400,000
FSU	11 1	Campuswide: brick paver & concrete walk repairs	\$500,000
FSU		Telecom: roof replacement	\$150,000
FSU	1	Butler: roof replacement	\$650,000
FSU	4	Chesnutt: MEP (generator)	\$400,000
FSU	4 4	Telecom: MEP (central plant tie, AHU, BAS, MDP, generator)	\$750,000
FSU		University Advancement: MEP (AHU, Heat Pumps, BAS, MDP)	\$600,000
FSU	4	FM complex: MEP (HVAC, MDP, generator, restrooms)	\$450,000
FSU	2	Harris CBE: precast concrete structural repair	\$100,000
FSU	2	Cook: exterior stairs and patio repairs	\$100,000
FSU	1	J.Knuckles Science Annex: roof replacement	\$150,000
NC A&T	1	Roof Repairs (General Classroom B side)	\$1,241,107
NC A&T	4	Boiler Replacement	\$1,459,200
NC A&T	4	Hines Hall HVAC Modifications	\$300,000
NC A&T	9	Waterproofing Buildings	\$600,000
NC A&T	4	HVAC Repairs/Replacement(IRC Building)	\$705,274
NC A&T	4	HVAC Repairs/Controls Dudley	\$403,305
NC A&T	4	MCNair Hall HVAC Repairs	\$250,000
NC A&T	5	Elevator Repairs/Replacement	\$450,000
NC A&T	4	Steam Leaks Campus Wide	\$500,000
NC A&T	4	Building Steam system repairs	\$200,000
NC A&T	1	Roof Repairs (Moore Gym, Hodgin Hall, Fraiser Hall)	\$1,000,000
NC A&T	9	Window Replacement (Price Hall, 1020 Wendover, Hodgin Hall, Campbell Hall, C.H. Moore	\$200,000
NC A&T	8	Asbestos Abatement Campus Wide( 1020 Wendover, Price, Corbett Sports Center, Campbell & Carver)	\$150,000
NC A&T	4	Back Flow preventors (Campus Wide)	\$300,000
NC A&T	4	Electrical Improvements( Beef Barn, Bull Barn, Calf Barn, Dairy Barn)	\$100,000
NCCU	11	BN Duke Steam to Natural Gas Conversion	\$350,000
NCCU	1	Art Museum Roof Replacement	\$250,000
NCCU	11	Campus-wide steam system repairs (steam traps, valves, leaks, piping & insulation replacement, MHs)	\$600,000
NCCU	2	Robinson Science Building - Repair & Restore Brick Facade	\$300,000
NCCU	9	Hubbard Totton Building - Elevator Replacement	\$350,000
NCCU	5	Campus-Wide ADA Compliance Upgrades Phase 2	\$100,000
NCCU	4	William Jones Building HVAC Upgrades	\$450,000
NCCU	9	Walker PE Complex - Elevator Replacement	\$350,000
NCCU	11	Sanitary Sewer System: locate/ assess terra-cotta pipes to stop significant inflow and infiltration	\$100,000
NCCU	1	Roof Gutters & Vent Repairs at multiple locations	\$310,000
NCCU	2	Taylor Building - Repair & Restore Brick Façade	\$161,000
NCCU	11	Water System: Re-route South and East sides for increased capacity	\$135,000
NCCU	1	Campus Wide Annual Flat Roof Diagnostics, Preventive Maintenance and Leak Repairs	\$300,000
NCCU	6	Fire Alarm Systems Upgrades & Repairs at multiple locations	\$250,000
NCCU	1	Steam Plant Roof Repair	\$40,000
NCCU	8	Asbestos/Mold remediation/Contaminants removal - Multiple locations	\$300,000
NCCU	4	Shepard Library ITS NOC HVAC Upgrades	\$230,000
NCCU	6	Fine Arts Building Fire Alarm System Replacement	\$495,000
NCCU	7	Miller Morgan Building VFDs Replacement	\$80,000
NCCU	2	BN Duke Audtitorium - Repair & Restore Brick Façade	\$300,000
NCCU	2	Edmonds Building Brick Façade Repair & ADA Access Ease of Entry and Code Compliant Steps and Handrails & Repli	
NCSSM	9	Cafeteria Renovation	\$2,500,000
NC State	4	Research Bldg III - HVAC Upgrades	\$900,000
NC State	11	Original Campus - Domestic Water Line repair under Railroad Tracks	\$270,000
NC State	9	Dabney - Renovation - Labs	\$1,500,000
NC State	2	Polk -2nd Floor Overhang structural repair	\$150,000
NC State	9	Scott Hall - Renovation - Labs	\$2,500,000
NC State	9	Brooks Hall - Renovation - Phase 1	\$1,500,000
NC State	4	Mann - Electrical Upgrades	\$950,000
NC State	9	Thomas Hall - Renovation - Labs	\$1,000,000
NC State	3	Polk - Fire Alarm Upgrade	\$600,000
NC State	4	CVM Equine AHU replacement	\$300,000
NC State	5	Mckimmon - ADA Improvements Restrooms	\$500,000
NC State	11	Morrill Drive Domestic Water Line Replacement	\$661,000
NC State	6	Fire Alarm Panel Replacement (Nelson, Park Alumni, Beef Education Unit, Schaub, CVM Research)	\$250,000
NC State	11	Campus - Domestic Water Line and Valve Replacement Ph 11	\$650,000

Institution	R&R Category	Maintenance Repair and Renovation Projects Project	Project Total
			i i
NC State	4 9	BAS Controls Upgrade Phase 1(Don Ellis, Brooks)	\$100,000
NC State		Polk Hall - Renovation - Labs - Phase 1	\$1,500,000
NC State	8	Campus - Asbestos Removal Steam System	\$650,000
NC State	2	Caldwell Hall - Pointing & Caulking	\$100,000
NC State	4	Research Bldg #1 - AHU replacement	\$850,000
NC State	4	Research Bldg IV - HVAC Upgrades	\$1,100,000
NC State	11	Centennial Campus - Repair steam leaks	\$550,000
NC State	6	CVM Main - Fire Alarm Upgrade Phase 3 o f 3	\$400,000
NC State	6	Mann Hall - Fire Sprinkler System	\$500,000
NC State	11	Campus - Steam Leak Repair MH13	\$200,000
NC State	9	Gardner - Renovation - Labs	\$480,000
NC State	2	Textiles - COT Pod 2 South side - Foundation Waterproofing	\$350,000
NC State	11	Campus - Cooling Tower Refurbish at CBC	\$250,000
NC State	6	Polk Hall - Fire Alarm Upgrade	\$600,000
NC State	3	Biltmore - Code Deficiencies	\$2,000,000
NC State	11	Campus - Upgrade Campus Sanitary/Storm Water System Ph 1	\$844,000
NC State	11	Campus - Chilled Water System improvements	\$575,000
NC State	2	Kilgore - Foundation Waterproofing	\$350,000
NC State	2	Cox - Pointing & Caulking	\$300,000
NC State	2	Tompkins Hall - Above grade Waterproofing / Pointing	\$200,000
NC State	11	Yarborough - Chiller Controls Upgrade	\$146,000
NC State	11	Campus - Sewer Line replacement - Court of NC	\$175,000
UNCA	3	Campus Wide: Arc Flash Compliance - Phase II	\$150,000
UNCA	3	Replace and Upgrade Fueling Station w/ compliant storage tanks/system (FCAP #31053)	\$150,000
UNCA	5	Replace the existing pedestrian pathways to connect main quad to Owen Hall	\$250,000
UNCA	5	Replace walkways in Tennent Park to provide ADA accessible path to the main quadrangle/Carmichael Hall.	\$250,000
UNCA	11	Repair concrete at Carmichael Plaza & walk along Ramsey/Tennent Park	\$200,000
UNCA	7	Reuter Center: replace BAS, add VFD to AHU (FCAP #31131)	\$150,000
UNCA	1	Roof Replacements: Reuter Center (EPDM) & Riverside Warehouse (single-ply) (FCAP #14433)	\$475,000
UNCA	11	Rework intersection at Edgewood and University Heights	\$250,000
UNCA	11	Utility Location Survey and installation of underground utility markers	\$200,000
UNCA	4	Zageir Hall: Replace exist machineryin kind with new HE models, in-kind. (FCAP #31124)	\$225,000
UNCA	11	Underground Waterline Repairs: replace domestic waterline, valves, and associated work	\$506,000
UNCA	3	Campus Wide: Implement interoperable communications per 911 commission	\$250,000
UNCA	7	Campus Wide: Install sub metering in all buildings - gas, electric, domestic hot water, rain water systems, and heat	1 1
UNCA	5	Replace sidewalks at Zageir Hall	\$150,000
UNCA	1	Weizenblatt Hall: Replace low slope roof with new membrane roof.	\$175,000
UNCA	7	118 WT Weaver HVAC Replacement: Replace major HVAC System equipment, update controls	\$518,974
UNCA	5	Campus Wide: Replace deteriorated, rusted handrails with aluminum	\$250,000
UNC-CH	1	462 Art Studio Building Replace Roofing - Steel Roof	\$219,772
UNC-CH	1	12 Carroll Hall Replace Roofing - Built-Up Roof, Sector C	\$406,823
UNC-CH	1	209 First Dental Replace Roofing - Slate Roof	\$565,120
UNC-CH	1	166 General Storeroom Replace Roofing - Built-Up Roof - Sector 5	\$577,490
UNC-CH	1	625 ITS Building - Manning Replace Roofing - Built-Up Roof	\$672,719
UNC-CH	1	27 Memorial Hall Replace Barrel Roof	\$330,000
UNC-CH	1	226 Old Clinic Replace Built-Up Roof	\$283,355
UNC-CH	1	5 South Building Replace Roofing - Replace Metal Roof, Gutters and Install Fall Protection	\$263,333
UNC-CH	4	228 Brinkhous-Bullitt Building Electrical Service and Distribution - Replace Main/Sub Distribution	\$4,843,986
UNC-CH	4	12 Carroll Hall Repair and Renovate Elevator #1618	\$746,929
UNC-CH	4	12 Carroll Hall Repair and Renovate Elevator #1018	\$464,850
UNC-CH	4	41 Coastal Process Environmental Health Lab Building System Cumulative Deficiencies	\$675,000
UNC-CH	4		\$428,865
UNC-CH	4	13 Davie Hall Replace Air Handling Unit 1A, 1st Floor 1967 Building 13 Davie Hall Replace Air Handling Unit 1B, 1st Floor 1967 Building	\$428,865
	4	3 Ackland Art Museum Install Building Automation System	
UNC-CH			\$236,625
UNC-CH	4 4	13 Davie Hall Replace Air Handling Unit 1C, 1st Floor 1967 Building	\$225,461
UNC-CH		14 Dey Hall Repair and Renovate Elevator #4576	\$407,206
UNC-CH	4	369 Friday Center Replace Heating/Cooling Air Handling Units - AHU 01 - Office, 1st Floor	\$255,456
UNC-CH	4	369 Friday Center Replace Heating/Cooling Air Handling Units - AHU 02 - Mail/Book Room, 1st Floor	\$272,402
UNC-CH	6	462 Art Studio Building Install Fire Sprinkler System	\$326,540
UNC-CH	6	211 Brauer Hall Fire Alarm Systems - Replace Fire Alarm Initiating Devices and Control Panel	\$565,868
UNC-CH	6	13 Davie Hall Fire Alarm Systems - Replace Fire Alarm Control Panel	\$135,985
UNC-CH	6	498 Kenan Center Fire Alarm Systems - Replace initiating Devices and Control Panel	\$200,000
LINIC CH	4	3 Ackland Art Museum Air Handling Units, AHU 2, Rear Galleries, Admin, 1983 Building	\$419,748
UNC-CH UNC-CH	4	24 Wilson Library Replace AHU 7 HVAC System	\$5,086,299

F	DOD C-1	Maintenance Repair and Renovation Projects	1
Institution	R&R Category	Project	Project Total
UNC-CH	2	3 Ackland Art Museum Replace Windows - Painted Wood Window	\$484,785
UNC-CH	1	328 Bingham Facility (Building 1) Replace Roofing - EPDM Roof	\$225,560
UNC-CH	1	228 Brinkhous-Bullitt Building Provide Roof Fall Protection	\$156,547
		9	
UNC-CH	1	229 Burnett-Womack Building Provide Roof Fall Protection	\$138,419
UNCC	1	Atkins Roof	\$911,250
UNCC	1	Reese Roof	\$226,100
UNCC	6	Reese Fire Systems	\$773,500
UNCC	6	Memorial Hall Fire Systems	\$327,250
UNCC	4	Duke HVAC & Controls	\$654,500
			\$1,011,000
UNCC	1	Friday Roof	
UNCC	4	RUP-2 HVAC & Controls	\$416,500
UNCC	6	King Fire Systems & Abatement	\$729,000
UNCC	4	Fretwell HVAC & Controls	\$1,574,009
UNCC	1	Memorial Hall Envelope	\$120,311
UNCC	1	Memorial Hall Roof	\$188,792
UNCC	1	Reese Envelope	\$995,269
UNCC	1	King Envelope	\$839,459
UNCC	4	Grigg HVAC & Controls	\$561,202
UNCC	6	Friday Fire Systems	\$631,072
UNCC	4	Rowe Elevators	\$156,334
UNCC	4	Rowe Electrical	\$154,042
UNCC	6		\$154,042
		Fretwell Fire Systems	
UNCG	2	Petty Bldg. Portico waterproofing	\$712,031
UNCG	6	MHRA Building. Fire Alarm System Replacement	\$985,327
UNCG	1	Mossman Bldg. Roof Replacement	\$773,128
UNCG	5	ADA compliance project. Campus wide. Restrooms, entrances, etc.	\$400,000
UNCG	2	UNCG State Building exterior envelope repairs	\$762,000
UNCG	4	Cone Art Bldg. Replace gallery lighting and lighting controls (Phase 2 & 3)	\$861,750
UNCG	8	Replace Generator Diesel Fuel tank	\$839,175
UNCG	12	Campus Wide. Replace property line fences, Replace underground piping for roof drainage	\$230,000
UNCG	4	Sullivan Science Bldg. Replace HVAC in Greenhouse	\$683,434
UNCG	12	Campus Wide. Pedestrian crosswalks repairs and upgrades for safety.	\$486,000
UNCG	3	Armfield-Preyer (Visitor's Center). Exterior renovation and water proofing.	\$435,000
UNCG	11	Campus wide, Walks and hardscape improvements	\$240,000
UNCG	8	Campus wide asbestos & Lead abatement	\$240,000
UNCG	6	Petty Bldg. Replace EST QuickStart fire alarm system	\$400,000
UNCG	11	Sink Bldg. Maintenance Compound - Asphalt Replacement.	\$140,000
UNCG	8	Coleman Bldg, VCT flooring abatement and replacement.	\$250,000
UNCG	6	Fire Alarm Upgrade. 996 Spring Garden, 1605 Spring Garden, 535 Tate Street, 2900 Oakland Ave.	\$250,000
UNCG	9	Cone Arts. Lecture Hall, room 103 seating, flooring, lighting, others upgrade	\$187,000
			+
UNCP	11	Campus Gas line replacement	\$550,000
UNCP	4	Jones Pool HVAC replacement	\$1,300,000
UNCP	6	Livermore & Jones Generator	\$424,500
UNCP	9	Honors College renovation	\$250,000
UNCP	9	Jones auxiliary gym and Dance studio flooring and studio upgrades	\$625,000
UNCP	4	Education Boiler replacement	\$110,000
		·	
UNCP	4	Chavis Air Handlers	\$390,000
UNCP	4	Moore Hall & Chavis boiler replacement	\$190,000
UNCP	3	Lumbee Hall & Old Main Elevator replacement	\$465,000
UNCP	6	Jones, Livermore, Lumbee, Old Main FACP replacement	\$682,000
UNCP	9	Jones ceiling repaint	\$110,000
UNCSA	4	Gray Bldg New Electrical Service Main	\$256,000
			\$134,000
UNCSA	6	Life Safety Code Correction - Design and Production, Workplace, Film Building 3	
UNCSA	6	Install Exit/Egress Lighting - Admin, Aquarius, Facilities, D&P Storage, WorkplaceWest V, Demille	\$115,000
UNCSA	9	Renovate Drama Studios - Workplace	\$448,000
UNCSA	12	Drainage and Landscape Improvements - Common Area at Moore and Sanford	\$397,000
UNCSA	9	Renovate Drama Administrative Offices - Workplace	\$323,000
UNCSA	3	Install Shop Exhaust and Heating System - Facilities Management	\$95,000
UNCSA	8		
		Gray Bldg Remove boilers	\$123,000
UNCSA	7	Repair/Replace Windows - Film School Buildings 1 and 2	\$202,000
UNCSA	4	Film Archives Building A/C and controls	\$485,000
UNCSA	4	Provide Heating and Cooling to Control Booth and Foley Booth - Performance Place, Film 2	\$87,000
UNCSA	7	Modifications to Heating, Ventilation and Air Conditioning System for Police - Gray	\$101,000
UNCSA	2	Paint Rooftop Components - Film School	\$81,000
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## Attachment B Maintenance Repair and Renovation Projects

Institution	R&R Category	Project	Project Total
UNCSA	11	Resurface Drives and Vehicle Staging - Facilities Management	\$75,000
UNCSA	9	Renovate Administrative and Faculty Offices - Design and Production	\$162,000
UNCSA	7	Mechanical System Retrocommissioning - Design and Production	\$134,000
UNCSA	5	ADA Campus-Wide Misc. Improvements	\$39,000
UNCSA	1	Roof Replacement - Chapel St Buildings	\$34,000
UNCSA	2	Exterior Waterproofing and Repairs - 300 Waughtown	\$73,000
UNCSA	4	Film School Bldg 3, Theater dimmers	\$232,000
UNCSA	4	Hanes Student Commons motor control center	\$150,000
UNCSA	7	Upgrade Air Distribution and Controls - Commons Building	\$93,000
UNCSA	9	Partial Interior Renovation - Commons	\$75,000
UNCSA	11	Replace Floor Slabs, Sidewalks and Stairs – Residence Halls A–F	\$118,000
UNCW	4	West Side Energy Plant Modernization	\$3,926,440
UNCW	12	Wagoner, Hurst, Hamilton roadways - Storm Water Refurbishment	\$2,500,000
UNCW	6	Replace Fire Alarm System - Warehouse - Receiving	\$161,000
UNCW	6	Replace Fire Alarm System - Telecommunications	\$62,000
UNCW	6	Fire/Life safety Improvements - Kenan Auditorium	\$75,000
UNCW	6	Fire Sprinkler - Isaac Bear Bldg.	\$410,000
UNCW	2	Replace Windows - Alderman Hall	\$280,000
WCU	1	HFR Building - Roof Replacement	\$660,000
WCU	6	Campus Wide - Fire Alarm System Upgrades	\$300,000
WCU	8	Reid Building - Gym Floor Replacement	\$275,000
WCU	11	Undersized Water Mains Replacement, Non-Functioning Valves and Upgrade Lines	\$3,000,000
WCU	1	Facilities Management Building - Roof Replacement	\$193,000
WCU	2	Highlands Biological Station - Structural Repairs	\$250,000
WCU	5	Ramsey Activities Center - Elevator Replacement	\$250,000
WCU	4	HFR Building - Chiller Replacement	\$200,000
WCU	2	Old Student Union - Foundation and Exterior Repair	\$450,000
WCU	4	Hunter Library - Cooling Tower Replacement	\$175,000
WCU	6	Egress Lighting and Exit Light Replacement - Campus Wide	\$100,000
WSSU	1	Repair Roof - Computer Science	\$120,000
WSSU	1	Replace Roof - Gaines Complex	\$660,000
WSSU	2	Exterior Wall Repairs - Computer Science	\$110,000
WSSU	2	Exterior Wall Repairs - W. B. Atkinson	\$125,000
WSSU	4	Elva Jones Computer Science - HVAC Upgrades and BAS Controls Replacement	\$1,450,000
WSSU	4	Upgrade HVAC Make-up Air System - O'kelly Library	\$375,000
WSSU	6	Add Fire Alarm System - 1600 Lowery St	\$125,000
WSSU	6	Fire Alarm System Upgrades - Campus-wide	\$750,000
WSSU	1	Replace Roof - R.J. Reynolds	\$205,000
WSSU	2	Ext. Wall Repairs, Door and Window Repl Coltrane Hall	\$275,000
WSSU	4	Upgrade Electrical System - O'Kelly Library	\$250,000
		Subtotal	\$140,057,434
		UNC System R&R Projects	\$3,497,566
		Total for R&R Projects	\$143,555,000

### **R&R Categories**

- 1 Roof repairs and replacements
- 2 Structural repairs
- $\ensuremath{\mathtt{3}}$  Repairs and renovations to meet federal and state standards
- 4 Repairs to or installation of new electrical, plumbing, and heating, ventilating, and air-conditioning systems
- 5 Improvements to meet the requirements of the Americans with Disabilities Act
- 6 Improvements to meet fire safety needs
- $\ensuremath{\mathsf{7}}$  Improvements to existing facilities for energy efficiency
- $8-Improvements\ to\ remove\ asbestos,\ lead\ paint,\ and\ other\ contaminants,\ including\ the\ removal\ and\ replacement\ of\ underground\ storage\ tanks$
- 9 Improvements and renovations to improve use of existing space
- 10 Historical restoration
- 11 Improvements to roads, walks, drives, and utilities infrastructure
- 12 Drainage and landscape improvements
- 13 -Building demolition

# University of North Carolina FY 2021-23 Capital Improvement Priorities

# Attachment C Comprehensive Renovation and Modernization Projects

		Total Project	Previously			Total FY21-23
University	Project	Authorization	Appropriated	FY21-22	FY22-23	Request
Appalachian State	Duncan Hall Renovation	20,000,000		1,800,000	18,200,000	20,000,000
East Carolina	Howell Science Building South	30,000,000		3,000,000	27,000,000	30,000,000
Elizabeth City State	Infrastructure Upgrades - Water & Electrical, Phase 2	27,000,000		3,000,000	24,000,000	27,000,000
Fayetteville State <sup>1</sup>	H.T. Chick Targeted Renovation	9,500,000		9,500,000		9,500,000
NC A&T <sup>1</sup>	Carver Hall Comprehensive Modernization-Phase 2	10,400,000			10,400,000	10,400,000
NC A&T	Price Hall Renovation-Phase 2	8,500,000			8,500,000	8,500,000
NC Central	Taylor Education Building Renovation	13,750,000		1,250,000	12,500,000	13,750,000
NC School of Science and Math	Academic Commons and Dining Hall Renovation	12,400,000			12,400,000	12,400,000
NC State	Renovation - 111 Lampe Drive	42,000,000		17,000,000	25,000,000	42,000,000
UNC Asheville	Lipinsky Renovation	10,000,000		1,000,000	9,000,000	10,000,000
UNC Chapel Hill <sup>2</sup>	Carrington Hall Renovation	45,000,000	2,500,000	22,500,000	20,000,000	42,500,000
UNC Charlotte <sup>1</sup>	Cameron Second Floor Renovation	19,100,000		19,100,000		19,100,000
UNC Charlotte <sup>1</sup>	Burson Renovation	25,900,000			25,900,000	25,900,000
UNC Greensboro <sup>1</sup>	Jackson Library Renovation/Addition	81,000,000		7,000,000	74,000,000	81,000,000
UNC Pembroke	Business Administration Renovation	12,500,000		1,000,000	11,500,000	12,500,000
UNC School of the Arts	Stevens Center Renovation-Phase 1	25,000,000		5,000,000	20,000,000	25,000,000
UNC Wilmington <sup>3</sup>	Randall Library Renovation and Expansion	61,500,000	5,500,000	20,000,000	36,000,000	56,000,000
Western Carolina	Moore Building Renovation	15,000,000		15,000,000		15,000,000
Winston Salem State <sup>1</sup>	Hauser Hall Renovation - Phase 2	7,500,000		7,500,000		7,500,000
	Total	\$476,050,000	\$8,000,000	\$133,650,000	\$334,400,000	\$468,050,000

<sup>&</sup>lt;sup>1</sup>Project included in H966, which was ratified, but not enacted into law

<sup>&</sup>lt;sup>2</sup> S.L. 2020-81 included the total project authorization and appropriated \$2.5 million in advanced planning funds for the Carrington Hall Renovation at UNC-CH.

<sup>&</sup>lt;sup>3</sup> S.L. 2018-5 appropriated \$5.5 million in advanced planning funds for the Randall Library Renovation and Expansion at UNC Wilmington.