

**Medical University of South Carolina  
Capital Purchases  
Fiscal Year 2009**

	Total Projected Amount	Total Spent to date	Expected FY2009	Funding Source	Unit
<b>Capital (Construction) Projects:</b>					
<b>A. Projects &gt; \$250,000 - FOR APPROVAL</b>					
1	\$ 850,000	n/a	\$ 850,000	Institutional Capital Projects - current	Engineering & Facilities
2	350,000	n/a	350,000	Institutional Capital Projects - current	Engineering & Facilities
3	650,000	n/a	650,000	Institutional Capital Projects - current	Engineering & Facilities
4	2,000,000	n/a	2,000,000	Institutional Capital Projects - current	Engineering & Facilities
5	300,000	n/a	300,000	Department Operating/University Operating	College of Nursing/University
6	250,000	n/a	250,000	Department Operating	College of Medicine
7	400,000	n/a	400,000	Institutional Capital Projects - current	Engineering & Facilities
8	300,000	n/a	300,000	Department Operating	College of Medicine
9	1,200,000	n/a	1,200,000	Department Operating	College of Medicine
10	550,000	n/a	550,000	Institutional Capital Projects - current	Engineering & Facilities
11	300,000	n/a	300,000	Department Operating	College of Medicine
12	250,000	n/a	250,000	Department Operating	College of Medicine
13	3,000,000	n/a	500,000	Department Operating	College of Medicine
14	500,000	n/a	500,000	Department Operating	Parking
Total	\$ 10,900,000	n/a	\$ 8,400,000		
<b>B. Projects &gt; \$250,000 - PREVIOUSLY APPROVED</b>					
1	\$ 43,628,962	\$ 41,012,716	\$ 2,616,246	Capital Improvement Bond / Grants	VPAA
2	8,000,000	4,184,689	3,000,000	Department Operating	College of Medicine
3	500,000	418,432	76,820	Hospital Revenue	Engineering & Facilities
4	61,000,000	21,027,246	30,000,000	Capital Improvement Bond/Bond Anticipation Notes	College of Dental Medicine
5	11,934,798	11,446,885	1,798	State Institution Bonds	Engineering & Facilities
6	12,500,000	11,371,856	1,097,000	Sale of Property to MUHA	Engineering & Facilities
7	61,504,400	6,203,405	25,000,000	Life Sciences Bond, Federal Grants, MUSCF	Engineering & Facilities
8	1,850,000	614,972	1,235,028	Institutional Capital Projects - prior year, University Operating	Engineering & Facilities
9	1,600,000	1,425,071	174,929	Department Operating	Parking
10	800,000	794,805	5,195	Institutional Capital Projects - prior year	Engineering & Facilities
11	2,500,000	1,803,238	450,000	Department Operating	College of Nursing
12	41,629,001	31,186,448	7,262,001	Revenue Bond /Federal Transit	Engineering & Facilities
13	1,250,000	59,023	1,130,000	Department Operating	Parking
14	500,000	31,662	428,000	Institutional Capital Projects - prior year	Engineering & Facilities
15	500,000	132	450,000	Institutional Capital Projects - current	Engineering & Facilities
16	810,000	45,608	560,000	Institutional Capital Projects - current	Engineering & Facilities
17	1,000,000	70,550	787,000	Institutional Capital Projects - current	Engineering & Facilities/VPAA
18	500,000	-	499,785	Department Operating	College of Medicine
19	700,000	-	692,844	Institutional Capital Projects - current	Engineering & Facilities
20	800,000	64,374	735,626	Department Operating	College of Medicine
21	58,250,000	724,273	15,000,000	Life Sciences Bond, Federal Grants,	VPAA
22	250,000	80,835	161,000	Institutional Capital Projects - prior year	Engineering & Facilities
23	490,000	30,021	423,000	University Operating	Engineering & Facilities
24	475,000	370,724	104,276	Institutional Capital Projects - current	Engineering & Facilities
25	300,000	2,304	275,000	Institutional Capital Projects - prior year	Engineering & Facilities
26	320,000	59,136	220,000	Institutional Capital Projects - prior year	Engineering & Facilities
27	250,000	263	249,737	Institutional Capital Projects - current	Engineering & Facilities
28	450,000	7,654	442,346	Institutional Capital Projects - current	Engineering & Facilities/VPAA
29	490,000	2,967	476,000	Institutional Capital Projects - current	Engineering & Facilities
30	400,000	20,864	372,000	Institutional Capital Projects - current	VPAA
31	460,000	12,825	223,157	Institutional Capital Projects - current	Engineering & Facilities
32	750,000	-	750,000	Institutional Capital Projects - current/Parking	Engineering & Facilities/Parking
33	250,000	-	250,000	Department Operating	College of Medicine
Total	\$ 316,642,161	\$ 133,072,978	\$ 95,148,788		
<b>C. Projects &gt; \$100,000 &lt; \$250,000 - FOR INFORMATION ONLY</b>					
1	\$ 1,886,000	\$ 373,812	\$ 1,450,752		

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	Total Projected Amount	Total Spent to date	Expected FY2009	Funding Source	Unit
<b>Capital Information Technology Purchases:</b>					
<b>A. FOR APPROVAL</b>					
1 Network upgrades:MDF switches, UPSs, Border network, Big IP, Wireless	\$ 274,000	n/a	\$ 274,000	University Operating/Department Operating	OCIO
2 Parking Access/Revenue Control system	300,000	n/a	300,000	Department Operating	Parking
3 IT purchases less than \$250,000	516,800	n/a	516,800	University Operating/Department Operating	Various
Total	<u>\$ 1,090,800</u>	n/a	<u>\$ 1,090,800</u>		
<b>Capital Equipment Purchases:</b>					
<b>A. FOR APPROVAL</b>					
1 Various Building Component Equipment	\$ 400,000	n/a	\$ 400,000	Department Operating	Engineering and Facilities
2 SAN/TSM/SVC and IBM Tape library expansion and upgrades	524,800	n/a	524,800	University Operating	OCIO
3 Equipment purchases less than \$250,000	1,550,000	n/a	1,550,000	Department Operating/Unfunded	Various
Total	<u>\$ 2,474,800</u>	n/a	<u>\$ 2,474,800</u>		
<b>Unspecified Capital Purchases:</b>					
<b>A. FOR APPROVAL</b>					
1 Allowance for unexpected capital purchases	\$ 3,789,000	n/a	\$ 3,789,000	Department Operating	Various
Total	<u>\$ 3,789,000</u>	n/a	<u>\$ 3,789,000</u>		
<b>Capital Lease Items:</b>					
<b>A. FOR INFORMATION ONLY</b>					
1 Charleston High School	\$ 1,883,200	n/a	\$ 1,883,200	Department Operating	Leases
2 Strom Thurmond Building	1,277,670	n/a	1,277,670	Department Operating	Leases
3 Harborview Office Towers	1,471,741	n/a	1,471,741	Department Operating	Leases
Total	<u>\$ 4,632,611</u>	n/a	<u>\$ 4,632,611</u>		
<b>TOTAL CAPITAL PURCHASES</b>	<u><b>\$ 341,415,372</b></u>	<u><b>\$ 133,446,791</b></u>	<u><b>\$ 116,986,751</b></u>		

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Project Title	Justification
<b>Capital (Construction) Projects:</b>	
<b>A. Projects &gt; \$250,000 - FOR APPROVAL</b>	
1 Clinical Sciences Building Air Handler #6 Replacement (floors 8&9 S)	This 1977 vintage unit is eight years beyond its ideal useful life of 25 years. Serves Clinical Sciences Building floors 8 and 9. Unable to provide adequate cooling this past summer.
2 HazWeather Upgrades (CSB gen pumps, vents, caps)	This is a part of a four year commitment made to our BOT to raise critical equipment above the experienced Hurricane Flood level of 20 feet above mean sea level.
3 Clinical Sciences Building AC/AH (Trane) 1st Floor Repl (renew 1992)(3 units)	This is a 1972/1973 building. The useful life of these units is 25 years at best. Repair work in 1992 was intended to add 5-10 years of additional service. These units are beyond their useful life and need to be replaced.
4 Psych Institute Generator, ATS & Switchgear Replacement	This is part of the Hazardous Weather Upgrade project. The existing switchgear is at maximum capacity and needs to be upgraded and moved out of the 20 foot flood zone.
5 College Of Nursing Renovations (bathroom and sink issues)(1 of 4, total = \$1.5M)	This is a part of a four year plan to eliminate bathrooms between offices above the 1st floor and make better use of the space available.
6 Basic Sciences Building 2nd Floor Renovations for Microbiology/Immunology (A&E)	The second and third floors of the west half of BSB were initially envisioned to be renovates within a single project. The second floor renovation work was dependent upon receiving a federal grant which did not get approved for funding. The third floor renovation for Pharmacology is underway. The COM has now identified other funding to proceed with the second floor renovations. The second floor laboratories need to be renovated for Microbiology and Immunology to improve effectiveness and efficiency of current day research.
7 Harborview Office Tower Renovations for Risk Management Move	Risk Management needs to be relocated from 5 Doughty Street, a 1845 vintage historic home, because it is in poor condition and has become too expensive to maintain for office space. Once vacated, plans are to sell 5 Doughty.
8 Harborview Office Tower Renovations for Human Resources Move	Human Resources must vacate a portion of the first floor to accommodate Neurosciences clinical services. Locating Neurosciences out-patient clinics on the first floor and relocating Human Resources is less expensive and more customer friendly than locating Neurosciences clinics on an upper floor because of code compliance issues and patient logistics.
9 Harborview Office Tower Renovations for Neurosciences Move	Neurosciences will be moving from 5900 Core Avenue in North Charleston, from 3rd floor McClennan Banks, and some areas in Rutledge Tower to Harborview Office Tower to consolidate faculty offices and clinical research and to expand clinics for UMA patients in the areas of stroke, movement disorder, memory disorder, and related neurological problems in aging.
10 Quad E Roof Replacement	This is a 1939 building. The roof has several leaks and must be replaced to avoid further interior damage. The need for full replacement was recommended and the cost estimate was prepared by our roofing consultant.
11 Walton Research Building 2nd Floor Lab Renovations	This system does not provide the quality of deionized water to the bench that is required for good research. There are two approaches to solving this problem. Providing DI units for each station within the buildings or replacing the centralized system. Both approaches cost approximately the same. This is a change in scope to the Quad F DI system replacement that was in the FY07 budget for \$200,000.
12 Clinical Sciences Building 3rd Floor Renovation A&E	Space on the 3rd floor of the Clinical Sciences Building will be vacated by the Department of Pharmacology. This project allows for a feasibility and space planning study to be conducted for building layout and future occupancy by the Department of Neurosciences.
13 Clinical Sciences Building 3rd Floor Renovation	Renovation of approximately 15,000 square feet on the 3rd floor of the Clinical Sciences Building for offices and research labs to be used by the Department of Neurosciences
14 Courtenay Parking Garage Upgrade	A Hospital project was recently completed adding new elevators in this building, along with improved lighting on the 3rd floor and a pedestrian connector to the Ashley River Tower. This new project will provide necessary and improved lighting for the remainder of the garage.
<b>B. Projects &gt; \$250,000 - PREVIOUSLY APPROVED</b>	
1 Hollings Cancer Center Expansion (Equipment)	<b>Board of Trustees approved this project 8.13.1999.</b> This project provides over 100,000 square feet of additional clinical and research space and over \$30 million in equipment in support of cancer treatment.
2 Pharmacology Renovations	<b>Board of Trustees approved this project 5.19.2005.</b> This project provides for renovation of existing laboratory space and clinical space in the Hollings Cancer Center and the Basic Sciences Building to house Centers of Excellence chair holders in Proteomics and Cancer Therapeutics.
3 Medical Center Electrical Substation Replacement	<b>Board of Trustees Approved this project 4.09.1999.</b> This project replace the 45 year old open-air high voltage substation located on the third floor of the Medical Center.
4 College of Dental Medicine Building	<b>Board of Trustees approved this project 5.19.2005.</b> This project provides approximately 100,000 square feet of clinical and research space for the College of Dental Medicine.
5 Thurmond/Gazes Biomedical Research Building Chillers Replacement	<b>Board of Trustees Approved this project 5.16.2003.</b> The project includes replacement of the building chiller system and one of the two main air handling units.
6 Phase I Relocation Project	<b>Board of Trustees Approved this project 5.19.2005.</b> This project involves miscellaneous renovations of various university space to allow construction of the Phase I Hospital.
7 Drug Discovery Building Construction	<b>Board of Trustees approved this project 5.19.2005.</b> This project provides 96,000 square feet of research space to be located at the corner of Ashley Avenue and Sabin Street. It will serve as a hub for research collaboration between MUSC and the USC Colleges of Pharmacy.

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Project Title	Justification
8 Campus Elevator Upgrades	<b>Board of Trustees approved this project 8.12.2005.</b> Project will upgrade the four least reliable University elevators on campus: 1936 vintage elevator in QE, 1952 vintage elevator in QF, and two 1960 vintage elevators in Walton Research Building. The upgrades will improve performance, reliability and maintainability.
9 Parking Garage Elevator Addition (Ashley-Rutledge)	<b>Board of Trustees approved this project 10.7.2005.</b> This project will resolve the overwhelming usage of the garage south side elevator due to the unanticipated volume of garage users migrating to the Rutledge Tower clinics. A second elevator tower will be constructed on the south side of the garage to manage the pedestrian movement. This will result in a
10 Clinical Sciences Building Air Handlers #5 & #6 Replacements	<b>Board of Trustees approved this project 12.9.2005.</b> This 1975 vintage air handler serves the south end of the 8th and 9th floors of Clinical Sciences Building and has exceeded its useful life.
11 College of Nursing Clinical Teaching Lab Construction	<b>Board of Trustees approved this project 12.9.2005.</b> Projected funded in the FY06 Appropriations Act for the construction of a Simulated Clinical Laboratory. This teaching laboratory will involve the renovation of space on the first floor of the College of Nursing.
12 Bee Street Parking Garage Construction	<b>Board of Trustees approved this project 4.7.2006.</b> This project will consist of an eight-level 1,481 car parking garage to be located on University land bordered by U.S. 17N, Courtenay Drive, and Bee Street. The 588,400 square foot facility will absorb the increased staff and visitor parking demand resulting from the construction of the new Phase I Hospital.
13 Parking Garage II Structural Repairs	<b>Board of Trustees Approved this project 12.8.2006.</b> This project will correct the structural building deficiencies in PGII.
14 College of Health Professions Bldg C HVAC Replacement	<b>Board of Trustees approved this project 8.11.2006.</b> This 1976 system is beyond its expected useful life of 20-25 years, replacement parts are difficult to locate, and must be replaced. The replacement system will be more reliable and save energy by providing more efficient temperature and humidity control.
15 Air Emission Permit Compliance Project	<b>Board of Trustees approved this project 8.10.2007.</b> This project is necessary to be in compliance with air emission regulation changes. We will not be able to perform any new construction or renew our existing permit until our emissions are compliant. The initial focus will be along Sabin Street.
16 Arco Lane Warehouse Roof Repairs & HVAC Replacement	<b>Board of Trustees approved this project 8.10.2007.</b> The existing roof is beyond its useful life, has multiple leaks, and cannot be repaired.
17 Campus Buildings Humidity Control Improvements	<b>Board of Trustees approved this project 8.10.2007.</b> The existing animal facilities do not meet AAALAC requirements for humidity control when there are low outside temperatures. This project will correct the deficiencies before the upcoming 2008 AAALAC inspection.
18 Family Medicine Building HVAC Replacement	<b>Board of Trustees approved this project 8.10.2007.</b> The existing 1962 vintage two-pipe HVAC system is well past its useful life. The pipes are severely corroded and routinely break. These failures constantly affect patient care as well as the efficiency of the occupants. We will replace the old system with a new two-pipe fan coil electrical system for better performance and service life.
19 Psych Hospital Exterior Wall & Window Waterproofing	<b>Board of Trustees approved this project 8.10.2007.</b> There are multiple water intrusion problems associated with the exterior closure of this building. Caulking, window seals, and flashing systems need repair and/or replacement.
20 Psych Institute 2nd Floor Renovations	<b>Board of Trustees approved this project 8.10.2007.</b> These renovations allow the National Crime Victims Center, which is part of the Institute of Psychiatry, to move from the existing bank building to the second floor of the Psych Institute in preparation for demolition of the Bank Building.
21 Bioengineering Building Construction	<b>Board of Trustees approved this project 10.12.2007.</b> MUSC's vision is to develop nationally recognized programs of distinction in bioengineering research. The building will be a flexible laboratory, teaching and faculty office environment. The program includes research laboratories, assembly, classroom, administrative, and associated support spaces. Integral with the building design and many site improvements, the Bioengineering Building will be a sustainable building designed to be LEED certified at a minimum Silver level. The building will be approximately 90,000 GSF. This building is partially funded through the State's Research University Infrastructure Act program. This building is an integral part of housing several of our Centers of Economic Excellence Endowed researchers and their programs.
22 Clinical Sciences Building Hot Water Reheat (floors 3 & 4)	<b>Board of Trustees approved this project 8.12.2005.</b> Project will provide better temperature and humidity control for the 3rd and 4th floors of CSB and is the first phase of a two phase project to replace a 300KW electric heater. The second phase will provide hot water heat for floors 6 and 7. Both of these projects will result in improved HVAC performance and energy savings.
23 Sebring Aimar House Interior Repairs	<b>Board of Trustees approved this project 5.18.2006.</b> This historic house has mold and mildew issues that have caused the occupants to be relocated. Work will entail taking measures to prevent moisture infiltration, repairing damaged ceilings and walls on all three floors, and making repairs.
24 F Building Third Floor Classrooms HVAC Upgrade	<b>Board of Trustees approved this project 8.11.2006.</b> The temperature and humidity is not adequately controlled in this space and this system upgrade is required to provide a suitable learning environment for College of Pharmacy students.
25 Campus Elevator Upgrade Phase II	<b>Board of Trustees approved this project 8.11.2006.</b> This project will replace obsolete components and controllers in order to provide more reliable service for the 1952 vintage elevator in Building QF, and address the safety issues associated with the 1979 vintage elevator in the Rutledge Tower Physical Plant Building.
26 Campus-wide Fire Door Replacements & Repairs	<b>Board of Trustees approved this project 8.11.2006.</b> Many fire doors have been damaged over time and are no longer serving their proper fire safety function. This project is required to bring those doors into code compliance.
27 E Building Roof Repairs/Replacement	<b>Board of Trustees approved this project 8.10.2007.</b> The existing roof is beyond its useful life, has multiple leaks, and cannot be repaired.
28 F Building & Walton Research Building DI Water System Piping Replacement	<b>Board of Trustees approved this project 8.10.2007.</b> This system does not provide the quality of deionized water to the bench that is required for good research. There are two approaches to solving this problem. Providing DI units for each station within the buildings or replacing the centralized system. Both approaches cost approximately the same. This is a change in scope to the Quad F DI system replacement that was in the FY07 budget for \$200,000.
29 Harper Student/Wellness Center Boiler Replacement	<b>Board of Trustees approved this project 8.10.2007.</b> This 1963 vintage boiler is beyond its useful life, inefficient, and unreliable.

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30 Hollings Cancer Center Fume Hood Exhaust System Upgrades	<b>Board of Trustees approved this project 8.10.2007.</b> The existing exhaust system is inefficient and needs to be replaced to disperse the exhaust flow higher into the atmosphere.
31 Psych Institute Roof Replacement	<b>Board of Trustees approved this project 8.10.2007.</b> The existing roof is beyond its useful life, has multiple leaks, and cannot be repaired. The UPS system supporting the main data control center is located directly below this roof.
32 Bank Building Demolition & Parking Lot Work	<b>Board of Trustees approved this project 8.10.2007.</b> This 1972 vintage building has multiple problems and is inefficient. The building is beyond economical repair and will be demolished.
33 Walton Research Building 7th Floor Renovations	<b>Board of Trustees approved this project 8.10.2007.</b> This project involves the renovation of the lab space on the 7th floor of the Walton Research Building. The outdated lab space will be modernized with state of the art equipment and lab benches to support efficient use of the space for research.
<b>Capital Information Technology Purchases:</b>	
<b>A. FOR APPROVAL</b>	
1 Network upgrades: MDF switches, UPSs, Border network, Big IP, Wireless	Network upgrades that include redundant MDF switches for over 20 locations, replacement of Big IP Appliance, improved security of border network, and wireless network enhancements.
2 Parking Access/Revenue Control system	Install new system to enhance processing. System to be installed in FY09
3 Various IT purchases (less than \$250,000)	Various IT purchases.
<b>Capital Equipment Purchases:</b>	
<b>A. FOR APPROVAL</b>	
1 Various Building Component Equipment	To replace/repair building system component equipment as the need arises.
2 SAN/TSM/SVC and IBM Tape library expansion and upgrades	Additional storage and expansion required to accommodate growth and utilization of systems on campus.
3 Various Equipment purchases (less than \$250,000)	Various equipment purchases.
<b>Unspecified Purchases:</b>	
<b>A. FOR APPROVAL</b>	
1 Various College and Departments	Allowance for unexpected capital expenses.
<b>Capital Lease Items:</b>	
<b>A. FOR INFORMATION ONLY</b>	
1 Charleston High School	Annual lease payment of a 20 year lease. This building houses the CHP and Ashley Street Parking Garage .
2 Strom Thurmond Building	Annual lease payment of a 11 year lease. This building houses Biomedical Research and VA Research.
3 Harborview Office Towers	Annual lease payment of a 7 year lease. This building houses Finance and Administration Offices.