University of Missouri – Columbia CRR 110.015 Facilities Needs and Reporting

CRR 110.015 was established to keep the facilities of the University of Missouri system in good condition to ensure the needs of the University's education and research missions are met. CRR 110.015 requires an annual investment to maintain a Campus Facilities Condition Needs Index (FCNI) of 0.30 or lower for Education and General (E&G) facilities. Auxiliary (Non-E&G) facilities have a target of 1% of the building current replacement value.

Current status of Education and General (E&G) Facilities

E&G Facilities	2018	2019	2020	2021	2022
(Dollars shown in Millions)					
Target Spend	\$52.4	\$55.9	\$59.0	\$60.2	\$60.9
Actual Spend	\$29.9	\$21.6	\$28.5	\$13.9	\$23.9
Recurring	\$17.2	\$16.3	\$12.7	\$8.1	\$6.4
One-Time	\$12.7	\$5.3	\$15.8	\$5.8	\$17.5
Difference in Actual	(\$22.5)	(\$34.3)	(\$30.5)	(\$46.3)	(\$37.0)
and Target	, , ,	, ,	, ,	, , ,	, , ,
FCN Backlog	\$811.8	\$840.9	\$867.8	\$881.6	\$958.4
Deferred Maintenance	\$419.4	\$442.0	\$443.4	\$446.8	\$502.2
Plant Adaption	\$108.8	\$115.0	\$118.3	\$120.5	\$129.2
Capital Renewal	\$283.6	\$283.9	\$306.1	\$314.3	\$326.9
Recommended Target	\$55.9	\$59.0	\$60.2	\$61.0	\$68.4
for next year					
Campus FCNI	0.30	0.31	0.31	0.30	0.31

MU currently has a campus FCNI of 0.31 which is higher than CRR 110.015 allows, and a \$958.4M facilities needs backlog. Currently, thirty-eight (38) facilities need major renovations and twenty—five (25) facilities need total renovations or replacements. For details, please see the list of buildings on page 3 of this report.

MU spent \$23.9 million for CRR 110.015 for FY 2022, next year, the backlog is expected to grow to \$1.0 billion in FY23, an increase of \$75 million. To curb the growth, the recommended target for FY22 is \$68 million dollars. MU has received \$20.1 million from the Federal Budget Stabilization Fund (FBSF) that was used for M&R projects such as fire alarm replacements and exterior repairs.

Current status of Auxiliary (Non-E&G) Facilities

In 2020, MU met the spending goal for Non-E&G facilities.

Non-E&G Facilities	2018	2019	2020	2021	2022
(Dollars shown in Millions)					
Target Spend	\$28.8	\$32.2	\$33.1	\$34.4	\$35.9
Actual Spend	\$38.0	\$43.7	\$35.1	\$35.5	\$35.2
Difference in Actual	\$9.2	\$11.5	\$2.0	\$1.1	(\$0.6)
and Target					

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MU FY22 E&G Building M&R Project List			
Building	Project Description	Cost	
Ellis Library	Masonry Repairs and Window Restoration	\$4,448,601	
Strickland Hall	Exterior Masonry Repairs	\$1,196,204	
MURR	Exterior Repairs and Roof System Replacement	\$1,175,417	
Memorial Student Union	Masonry and Building Envelope Repairs	\$1,028,568	
Clark Hall	3rd & 4th Floor Renovations	\$955,807	
Various Locations	Roof Replacements	\$754,999	
Animal Science Research	Central Fume Hood Exhaust System	\$746,027	
Center	·		
University Hall	AHU Replacements	\$672,269	
Memorial Student Union	Masonry and Building Envelope Repairs	\$624,800	
Fine Arts Building (Art)	AHU Replacements	\$622,286	
Ellis Library	Fire Alarm System Study	\$423,104	
McReynolds Hall	Renovate Floors 2-4	\$412,177	
Various Locations	Replace Fire Alarms	\$369,580	
Chemistry Building	Replace Switchgear	\$346,709	
Various Locations	Jesse Hall and Med Sci	\$291,025	
Chemistry Building	Upgrade Phoenix Valves 3rd Floor	\$291,000	
Schweitzer Hall &	Flooring Replacement	\$276,876	
Schweitzer Addition			
Ellis Library	Update Auditorium	\$243,863	
Lewis & Clark Halls	Relocate Radiography & Nuclear Medicine	\$220,907	
Locust Street Building	Modify Space for A&S Relocation	\$215,459	
Various Locations	Building System Component M&R	\$202,932	
Lee Hills Hall	Modify Space on 3rd Floor	\$171,992	
Various Locations	Roof Replacement	\$165,937	
Gentry Hall	Replace elevator jack	\$154,203	
MU Research Reactor	Lab Building Main AHU Cooling and Heating Coil Replacements	\$153,564	
Chemistry Building	Replace Chilled Water Coils AHU 1 & 2	\$114,332	
Hitt Street Parking Structure	Replace 40 Ton Condensing Unit	\$111,461	
Various Locations	Electrical Engineering Consulting Services	\$108,680	
Various Locations	Various routine maintenance, repair and renovation projects (<\$100,000/project)	\$7,352,057	
Total		\$23,959,118	

MU FY22 Non-E&G Building M&R Project List			
Building	Project Description	Cost	
Power Plant	TURBINE 9 OVERHAUL	\$1,433,475	
Power Plant	GT Overhaul Agreement	\$1,367,649	
Mizzou Arena	Renovate Basketball Spaces	\$1,335,389	
Stankowski Field	Turf Replacement and Track Resurfacing	\$1,103,415	
Various Locations	Research Commons - Replace Lead Covered Cable	\$932,173	
Various Locations	Replace SS Water mains in 5 St (312') & Life Sci (50') Tunnels	\$528,000	
Power Plant	GT Plant Exterior Repairs	\$501,827	
Various Locations	Tuckpoint E & S Brick Arch tunnels	\$495,692	
Tiger Avenue Parking	Structure Repairs	\$446,042	
Structure			
Kadlec Field #2	Replace Turf	\$354,115	
Various Locations	Steam System Civil Repairs Summer 22	\$350,084	
Power Plant	Turbine 7 T&T and Valve Maintenance	\$294,210	
Power Plant	Repair Projects	\$282,547	
Various Locations	Replace CI water pipe - Mizzou N, west side (1005')	\$251,234	
Memorial Stadium	Repair Trip Hazards	\$250,898	
Various Locations	Summer Paving	\$240,493	
Turner Avenue Parking	Structure Repairs	\$235,777	
Structure			
Research Reactor	Replace Switchgear	\$218,840	

Power Plant	Repair 204 BFB METERING BIN SCREW AND BOTTOM	\$215,421
Virginia Avenue Parking	Repair Joint Separation	\$214,995
Structure		
Energy Mgt Building	Roof Replacement	\$204,286
1601 Old Highway 63	Resurface Parking Lot	\$198,564
Memorial Stadium	Replace Turf	\$193,716
Power Plant	Repair chiller with Belzona Coating	\$173,483
Various Locations	Replace 3 Transformers	\$139,950
Missouri Orthopedic Institute	Replace Cooling Coil AHU2	\$130,526
Power Plant	Updare - Boiler 12 BMSPLC	\$128,948
Various Locations	Various routine maintenance, repair and renovation projects (<\$100,000/project)	\$23,025,344
Total		\$35,247,093

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Education and General Building List			
Building Number	Building Name	Age	FCNI
37002	AGRICULTURE BUILDING	63	0.39
37003	AGRICULTURE LABORATORY	72	0.47
37004	STUDENT SUCCESS CENTER	59	0.22
37006	LABORATORY ANIMAL CENTER	57	0.90
37007 37010	MUSEUM SUPPORT CENTER 1105 CARRIE FRANCKE DRIVE	27 45	0.20
37010	MELVIN H. MARX BUILDING	57	0.32
37012	ARTS AND SCIENCE BUILDING	61	0.48
37014	MIDDLEBUSH HALL	62	0.38
37015	PICKARD HALL	129	0.47
37017 37018	CONNAWAY HALL CROWDER HALL	111	0.05
37019	CURTIS HALL	83 82	0.62
37013	ECKLES HALL	120	0.57
37021	TOWNSEND HALL	86	0.09
37022	NAKA HALL	61	0.44
37024	COLUMBIA PROFESSIONAL BUILDING	97	0.71
37025	CONLEY HOUSE	152	0.16
37026 37027	FINE ARTS - ARTS GEOLOGICAL SCIENCES BUILDING	63	0.42
37027	LOWRY HALL	58 117	0.44
37033	BOTANY GREENHOUSE	52	0.35
37051	HILL HALL	71	0.42
37052	LONDON HALL	64	0.57
37053	JESSE HALL	128	0.27
37055	LEFEVRE HALL	108	0.42
37056	ELLIS LIBRARY	107	0.39
37058	NATIONAL SWINE RESOURCE AND RESEARCH CTR	14	0.02
37059	MCALESTER HALL	119	0.71
37060	MEDICAL SCIENCE	66	0.37
37061	GANNETT HALL	42	0.52
37062	MUMFORD HALL	99	0.48
37063	NEFF HALL	103	0.54
37064 37065	STEWART HALL (Renovated 2017)**	109	0.05
37066	ACADEMIC SUPPORT CENTER PARKER HALL	109 122	0.58
37069	READ HALL	118	0.62
37071	SCHLUNDT HALL	99	0.16
37072	SCHLUNDT HALL ANNEX	70	0.61
37073	SCHWEITZER HALL	109	0.52
37074	REYNOLDS JOURNALISM INSTITUTE	129	0.07
37076	STANLEY HALL AND ADDITION (37233)	63	0.59
37077	STEPHENS HALL	85	0.14
37078	PHYSICS BUILDING	57	0.40
37086	LEE HILLS HALL	26	0.16
37087	NURSING SCHOOL	42	0.42
37089	ROCK QUARRY CENTER E&G PORTION	38	0.25
37090	LEWIS HALL	52	0.48
37091 37099	CLARK HALL VETERINARY MEDICINE – EAST	52 62	0.54
37100	VETERINARY MEDICINE - LAST VETERINARY SCIENCE	73	0.23
37101	WALTER WILLIAMS HALL	85	0.08
37102	WATERS HALL	112	0.61
37103	WHITTEN HALL	119	0.61
37104	MCKEE GYMNASIUM	99	0.73
37108	CHANCELLOR'S RESIDENCE	154	0.16
37115 37124	GENTRY HALL LOEB HALL	82 65	0.36
37124	MCREYNOLDS HALL	65	0.47
37129	NOYES HALL	98	0.67
37133	OLD STUDENT HEALTH CENTER	85	0.68
37137	TROWBRIDGE LIVESTOCK CENTER	53	0.49
37143	HEINKEL BUILDING	81	0.51
37144	LOTTES HEALTH SCIENCES LIBRARY	36	0.39
37146 37148	MEDICAL SCIENCE ADDITION Gwynn (Renovated 2012-13)**	36 101	0.20 0.16
37148	AGRICULTURAL ENGINEERING	34	0.16
37156	BOND LIFE SCIENCES	17	0.23
37157	BOND LIFE SCIENCES MECHANICAL BUILDING	17	0.12
37166	HULSTON HALL	33	0.25
37167	ELLIS LIBRARY ADDITION	34	0.23
37175	AB NATURAL RESOURCES BUILDING	25	0.14
37221	FIRE STATION 3 (Renovated 2012)**	56	0.19

Education	and General Building List		
Building Number	Building Name	Age	FCNI
37224	GENERAL SERVICES BUILDING	58	0.26
37229	VETERINARY MEDICINE – WEST	46	0.45
37230	VETERINARY MEDICAL DIAGNOSTIC LAB	46	0.50
37232	FINE ARTS - MUSIC AND DRAMA	63	0.41
37243	JESSE AUDITORIUM	128	0.42
37251	TUCKER HALL	54	0.26
37252	MATH SCIENCE	53	0.45
37253	DALTON RESEARCH CENTER	54	0.37
37254	ANIMAL SCIENCE RESEARCH CTR AND UNIT F	53	0.28
37256	HEARNES CENTER (EG)	49	0.49
37257	CHEMISTRY	52	0.45
37258	ARVARH E. STRICKLAND HALL	52	0.41
37263	NEFF HALL ADDITION	62	0.65
37264	LIDR - REGIONAL BIOCONTAINMENT LAB	13	0.03
37278	CHEMISTRY TEACHING LABORATORY ADDITION	24	0.28
37280	CORNELL HALL	19	0.10
37286	NANO AND MOLECULAR MEDICINE	13	0.05
37288	RESEARCH ANIMAL DIAGNOSTIC LABORATORY	15	0.09
37301	LOCUST STREET EAST	59	0.27
37316	SCHWEITZER HALL ADDITION	14	0.09
37326	TATE HALL (RENOVATED 2011)**	97	0.18
37327	SWITZLER HALL (RENOVATED 2011)**	150	0.18
37343	BLACK CULTURE CENTER	23	0.19
37347	RRC WASTE STORAGE	25	0.18
37368	WILLIAM C. STRINGER WING	25	0.07
37370	MURR **	2021	0.20
37371	LOCUST STREET WEST	59	0.27
37375	PSYCHOLOGY BUILDING	76	0.31
37376	REYNOLDS ALUMNI CENTER	29	0.33
37379	CLYDESDALE HALL	28	0.16
37393	ERNIE AND LOTTI SEARS GREENHOUSE	22	0.05
37395	MISSOURI THEATRE FOR THE ARTS	94	0.21
37396	SWALLOW HALL (Renovated 2014-15)**	128	0.13
37474	1110 S. COLLEGE AND 83 ADDITION	52	0.57
37484	PATIENT CENTERED CARE LEARING CENTER**	4	0.05
37510	SINQUEFIELD MUSIC CENTER**	2	0.03
41005	UNIVERSITY HALL	52	0.46
41008 41011	PROVIDENCE POINT UNIV OF MISSOURI LIBRARY DEPOSITORY	52 24	0.17
42000	CLINICAL SUPPORT AND EDUCATION (EG)	13	0.11
44085	MIZZOU NORTH	82	
99000	Support & Various Bldgs (Extrapolation)*	2021	0.55
37023A		129	0.35
37023A 37023B	LAFFERRE HALL - 1892 BUILDING LAFFERRE HALL - 1893 ADDITION	129	0.04
37023C	LAFFERRE HALL - 1935-44 ADDITIONS	86	0.02
37023D	LAFFERRE HALL - 1991 ADDITION	30	0.12
37023E	LAFFERRE HALL - 2009 ADDITION	12	0.04

	FCNI Legend			
Excellent Condition, typically new construction (0.000 - 0.100)	Fair Condition, in need of normal renovation (0.201 - 0.300)	Poor Condition, total renovation indicated (0.501 - 0.600)		
Good Condition, renovations occur on schedule (0.101 - 0.200)	Below Average Condition, major renovation required (0.301 - 0.500)	Replacement Recommended (0.600 and Higher)		