



Five-Year Capital Outlay Plan and Project Request

University of Michigan – Ann Arbor

FY2025

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Facilities and Operations
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I. Mission and Overview

The mission of the University of Michigan is to serve the people of Michigan and the world through preeminence in creating, communicating, preserving and applying knowledge, art, and academic values, and in developing leaders and citizens who will challenge the present and enrich the future.

U-M delivers on its mission through excellence in academics, student life, research, healthcare, athletics, and community service.

Our various schools and colleges are educating the next generation of leaders and thinkers, while a wide array of services and programs enrich the academic experience and foster an environment where students can thrive.

Our community is addressing some of society's most complex problems through research, creativity, and innovation. Michigan Medicine is dedicated to providing high-quality healthcare. U-M's rich athletics tradition builds community and provides life-changing opportunities to student-athletes. And our commitment to the public good includes nurturing community partnerships throughout the state to address issues ranging from education and justice to economic development and natural resources.

Various initiatives—including diversity, equity and inclusion, sustainability, the arts, and innovation—complement the university's mission.

Campus planning and strategic vision initiatives are currently underway. Vision 2034 seeks to define how U-M will evolve over the next 10 years. Campus Plan 2050 will craft a blueprint for how the Ann Arbor campus will develop over the next 30 years.

U-M's academic programs and initiatives, staffing, and enrollment build on our mission and university-level initiatives to drive priorities related to the physical campus. All influence the need for space, utilities, transportation, and other facilities and services, as outlined in this report. Sustainability and stewardship are key to delivering on our mission.

Sustainability

For well over a decade, the university has been committed to integrating sustainability into our mission. In 2011, the Ann Arbor campus began pursuing a set of challenging sustainability goals—in the areas of climate action, waste reduction, healthy environments, and community engagement—and expanded upon this commitment in 2021 by establishing university-wide carbon neutrality goals. Since then, we have accelerated meaningful climate action across all campuses.

Facility-related sustainability initiatives have led to lasting operational and cultural shifts. For example:

- An ongoing energy management program has contributed to a 25% reduction in energy use in academic buildings since 2006, accommodating growth in space without increasing emissions
- Sustainable grounds practices and stormwater management improve local water quality
- Maximum emissions targets prioritize energy efficiency and carbon reduction in new construction and major renovation projects
- Water bottle filling stations, composting, and other programs support waste reduction

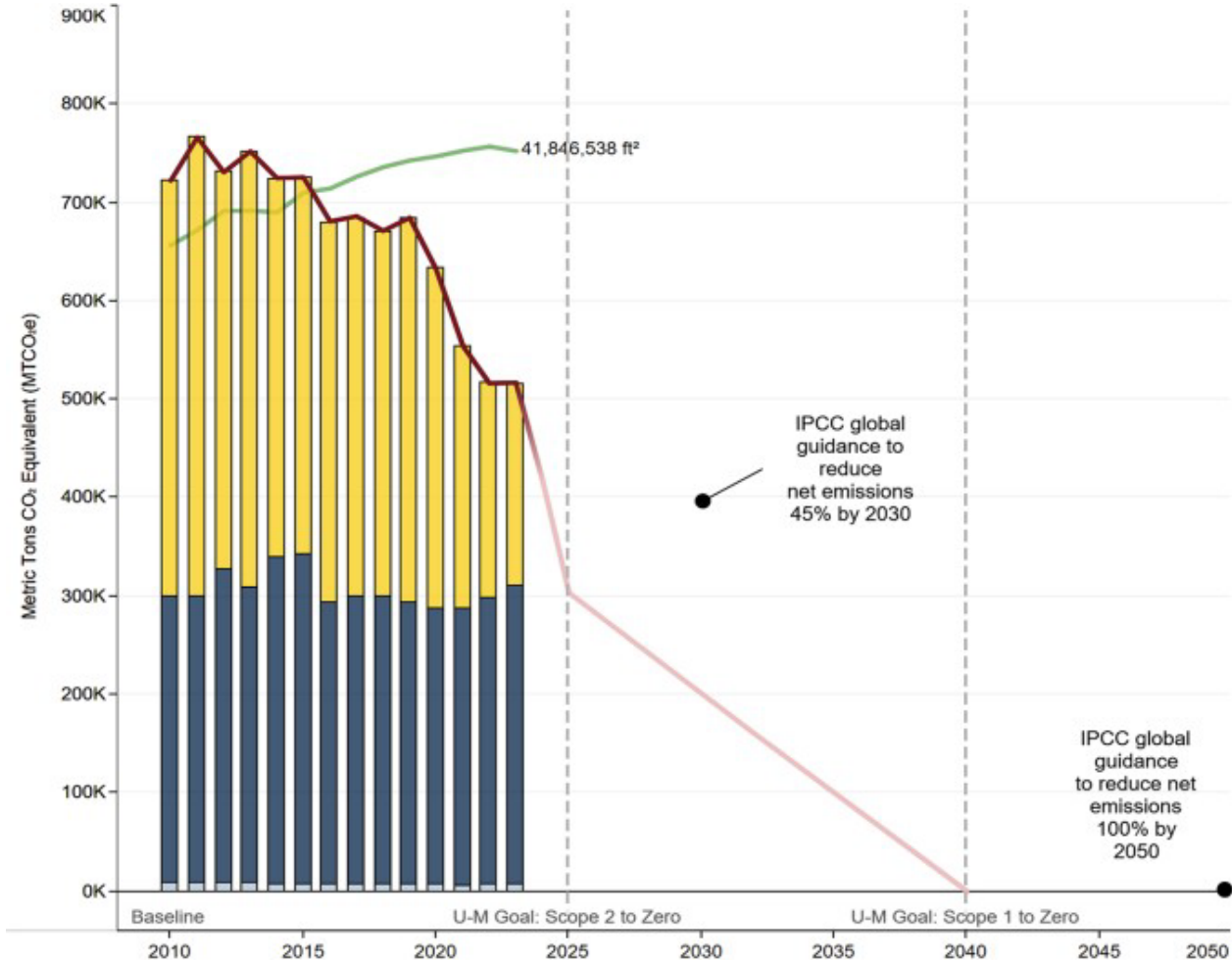
These highlights are part of the foundation on which U-M is expanding its sustainability efforts.

Carbon Neutrality

U-M committed to achieving carbon neutrality and launched a campus planning initiative that includes carbon neutrality as a central component. In addition, we are developing a utility master plan for North Campus, focused on decarbonizing heating and cooling infrastructure. These planning processes will provide guidance to expand upon projects that are currently underway.

U-M is committed to achieving net-zero greenhouse gas emissions from purchased power by 2025, eliminating emissions from direct, on-campus sources by 2040, identifying net-zero goals by 2025 for indirect emissions sources such as campus food, commuting, and university travel, and fostering a culture of sustainability with justice as a core principle. The goals span the Ann Arbor, Dearborn, and Flint campuses, Michigan Medicine and Athletics.

U-M Greenhouse Gas Emissions Levels and Reduction Trajectory



The university is furthering its commitment to climate action through transformative projects including:

- Geo-exchange facilities as a key strategy toward decarbonizing heating and cooling infrastructure, beginning with the Leinweber Computer Science and Engineering Building, a new Central Campus residential development dining hall, and the new Ginsberg Center for Community Service and Learning.
- Plans to build 25 megawatts of onsite solar installations across the university, including 15-20 megawatts of photovoltaic capacity on the Ann Arbor campus.
- Boosting energy conservation projects with a \$25 million revolving energy fund that dispenses zero-interest financing to university units pursuing energy efficiency projects. The projects include substantial LED lighting installations and heating, ventilation and air conditioning improvements.
- Decarbonizing U-M's vehicle fleet, beginning with four electric buses and 30 battery electric fleet vehicles deployed this year. Another four buses have been purchased and will arrive in the spring of 2024. U-M is awaiting delivery of an additional 20 battery

electric vehicles for the fleet. In addition, U-M has installed 36 EV charging spaces for fleet vehicles and permitted vehicles, with an additional 96 EV charging spaces for permitted vehicles planned for installation in FY24.

Mobility

Mobility is key to a well-functioning campus and has a strong nexus with sustainability. Our high-level transportation strategy is to provide and encourage a variety of forms of transportation in alignment with the university's priorities.

As part of the university's ongoing campus planning, the university has focused on a high-capacity transit corridor plan to connect Central, Medical and North Campus. An automated guideway and/or bus rapid transit continues to be a high priority and was recommended by the President's Commission on Carbon Neutrality as an important strategy to improve connectivity and interdisciplinary collaboration between campuses and support our carbon neutrality goals.

As part of the university's overall transportation system—which includes strategies such as shuttles, vanpool, e-scooters, e-bikes, and planning for a high-capacity transit corridor—the parking system provides approximately 30,000 total parking spaces serving members of the university community as well as patients and visitors.

Over a five-year cycle, a parking engineering consultant is engaged to assess the condition of U-M's 17 parking structures. The assessments are used to develop a system-wide maintenance program to guide future repairs and budget planning. An update to this Capital Improvement and Protection Plan (CIPP) was completed in fall 2021. A similar assessment of surface parking lots is used to establish repair and construction priorities.

CIPP construction and repair projects completed in 2023 included five parking structures, resurfacing of three surface parking lots, and standard maintenance items including crack filling, patch repair, and damaged curb and gutter replacement.

Utilities

U-M proactively and routinely reviews utility infrastructure to ensure the necessary production, distribution, and collection systems for steam, natural gas, compressed air, potable water, electricity, chilled water, and sanitary and storm sewer systems are in place to provide safe and reliable utilities. Projects are prioritized and implemented from these assessments.

Recent and upcoming projects include:

- Replacement of aging electrical switchgear is underway in the East Campus Switching Station and others are planned across campus over the next few years. These projects will ensure the continued reliability of the university's electrical distribution system and allow for further electrification of campus, including the installation of electric vehicle charging infrastructure.

- Several water main replacement projects are underway or are scheduled to begin over the next few years. One such project, a joint effort between the university and the city of Ann Arbor, will replace both university and city water mains along State Street and North University Avenue near the Diag and consolidate them into one main.
- A project to replace two aging steam absorption chillers at the East University Chiller Plant (EUCP) with more efficient and sustainable electrical centrifugal chillers was completed in 2023. EUCP provides air conditioning for occupants, archive storage, vivaria, and research in 12 campus buildings. A project to replace two additional absorption chillers at the School of Social Work is scheduled to begin this year.

The President's Commission on Carbon Neutrality recommended a comprehensive geo-exchange system to support the future heating and cooling needs of campus buildings. A comprehensive North Campus Utility Master Plan is underway to study the collective system needs to support current and future facility requirements that best meet our long-term goals for carbon neutrality. Additionally, a study is underway to evaluate installation of geo-exchange on Palmer Field on Central Campus. Both projects align with and support the broader Campus Plan 2050 initiative.

Stewardship

U-M prioritizes careful stewardship of campus facilities through planning, coordination, and maintenance of existing assets. Our policies support inclusion of maintenance and renewal in capital projects and major renovations. We monitor major building components and systems, including architectural, structural, civil, mechanical, electrical, life safety and fire protection, environmental health and occupational safety, and building accessibility.

Maintenance protects the functionality and extends the lifespan of existing assets, and typically takes place behind the scenes. These activities often go unrecognized, but are important for students, faculty, and staff to experience a safe and welcoming campus. See section IV for details on the university's facility assessment process, which provides strategic direction for maintenance activities.

Space Utilization

The university optimizes space use through campus-wide policies, processes, and reporting tools that support space management, more efficient utilization, and coordinated planning. The policies and tools address all types of space, including instructional, research, office, and food operations, and reinforce an institutional resource that is to be shared and managed effectively for the good of the institution.

A new area of focus is the rise in remote and hybrid work. Many departments with staff who can work remotely have found themselves needing less space or different types of space. Where possible, some departments have reduced their footprint and freed up space for higher priority needs or created more flexible and multipurpose spaces to support the new way of working and

learning. We will continue evolving to meet mission-driven needs and priorities while being as efficient as possible in existing and new spaces.

Our campus uses existing academic space by renovating and repurposing space to meet campus needs before considering building expansion. Examples of creative repurposing include:

- The historic Alexander G. Ruthven Building into flexible administrative, academic/research, student service, and meeting spaces. This nearly 100-year-old Albert Kahn building previously housed the university's biological sciences departments and natural history museum. When those functions moved to nearby buildings in 2018, the outdated spaces were renewed and renovated into flexible spaces that will support U-M core work for decades to come. This in turn allowed for the demolition of the outdated Fleming Administration Building, eliminating a significant amount of deferred maintenance.
- The Edward Henry Kraus Natural Sciences Building into the new School of Kinesiology Building. This Albert Kahn-designed building is over 100 years old and previously housed part of the university's biological sciences departments. When those functions moved in 2018, the outdated spaces were renovated into modern research, teaching, and administrative spaces for the School of Kinesiology.
- The Dental W.K. Kellogg Institute Building, creating modern clinics for improved patient care, flexible research space, and meeting/collaboration space. This project received support from the state via the capital outlay process.
- A decommissioned research facility at the North Campus Research Complex into a facility that now houses library, art, and other historical collections.
- Weiser Hall, an aging and outdated 1960s classroom building, into modern and flexible administrative, teaching, and meeting/collaboration spaces for international programs and other centers and institutes.
- A number of lesser-used classrooms in the Modern Languages Building into a testing center for students with special test-taking needs.
- A previously vacant university-owned warehouse, the Varsity Drive Building, into a multi-use facility that houses research labs and specimen collections for the College of Literature, Science, and the Arts.
- The former Ford Nuclear Reactor into the Nuclear Engineering Laboratory building, a project that increased overall space utilization, resulting in a 20 percent increase in the total building square footage.
- The entire third floor of Shapiro Undergraduate Library into Clark Commons, a modern study and collaboration space for students, faculty, researchers, and staff. Previously this area was used as collections storage. It is now a leading example of modern academic library facilities and a prototype space of how the library intends to transform their complex over time.
- The conversion of approximately 60,000 gross square feet of obsolete wet lab research space in the 1954 Medical Science Unit 1 Building, into an efficient and collaborative dry and computational research environment for the Medical School.

II. Instructional Programming

The University of Michigan, founded in 1817, has a history of over 200 years of leadership in education, innovative research, stewardship and service to the State of Michigan. The university consistently ranks in the top ten of public universities in the U.S., according to the U.S. News and World Report, and receives high marks for retention and graduation rates and for the reputation and excellence of many of the undergraduate, graduate, and professional degree programs offered by the university's 19 schools and colleges. As a public institution, the university strives to achieve its mission through teaching, research, and service, set within the framework of various schools, colleges, institutes and centers and through strategic partnerships with public and private institutions in Michigan and beyond.

The following information describes various programs that support these core missions of the university and activities that may impact facility needs in the next five years. It is an exciting time as U-M is in a campus planning process. The Campus Plan 2050 initiative has engaged with the U-M campus community to help craft U-M's blueprint for the future, a future that will develop the physical resources needed to fulfill the university's strategic vision. In the coming years, the campus plan will help prioritize many of the below needs in a 5, 10, or 25-year horizon.

A. Alfred Taubman College of Architecture and Urban Planning

The University of Michigan offered its first courses in architecture in 1876, and today the Taubman college offers bachelor's, master's, and doctoral degrees in various fields, including architecture, urban and regional planning, and urban design. The college shares the 1970s Art and Architecture Building on North Campus with the Penny W. Stamps School of Art and Design and leases an off-campus facility as faculty and graduate student studio space. Thanks to a gift from A. Alfred Taubman, the college added a wing in 2017 that provides modern instructional space, expanded student studios, and more spaces for student and faculty interaction, critiquing, and exhibitions. Much of the original 1970s building has aging classrooms, administrative and faculty spaces, and other support spaces that will eventually need to be renovated.

Penny W. Stamps School of Art & Design

The Penny W. Stamps School of Art & Design shares the Art and Architecture Building with the A. Alfred Taubman College of Architecture and Urban Planning, where it offers a comprehensive range of bachelor's and graduate degree programs in art, design, and inter-arts performance. The school operates out of three facilities (the Art and Architecture Building, a campus warehouse used for faculty and graduate student studios one mile away, and a leased space that is used as a gallery to display student work nearly three miles away) because they are constrained in their main building. The school operates with space constraints that limit some students from having access to studios. The university has worked to expand studio space within the current footprint but the ratio of space per student remains low relative to peers.

Stephen M. Ross School of Business

The Ross School of Business educates leaders, researchers, and lifelong learners who create

innovative solutions to the world's most complex business challenges and is consistently ranked high nationally and internationally. They offer all levels of action-based instruction from bachelor's, master's, and doctoral degree programs in business, accounting, management, supply chain management, and business analytics to executive education programs in leadership and management and the impact of the school's graduates extends across the globe. The school occupies multiple buildings on Central Campus, many of which have been recently constructed and renovated with support from its donor and namesake, Stephen M. Ross. The school also leases nearby off-campus space for some core academic functions and continues to express a desire to meet this need on campus instead. Additionally, some of the school's older buildings, including Wyly Hall and the Executive Residence, have aging infrastructure that will be addressed in a renovation project over the coming years.

School of Dentistry

Established in 1875, the School of Dentistry is one of only two schools of dentistry in the State of Michigan and continues to be a top-ranked program nationally. It offers bachelor's, master's, and doctoral degrees, as well as certification and continuing education, in a variety of dental fields including dental hygiene, pediatric dentistry, orthodontics, periodontics, oral and maxillofacial pathology, and surgery. The school's dedication to health and wellness extends well beyond the research lab and classroom. The school provides clinical services to patients on campus and around the State of Michigan and is particularly dedicated to providing care to underserved, at risk, and special needs patients. In 2017, the state authorized capital outlay funds to renovate and expand the Dental W.K. Kellogg Institute Building. Construction began in 2018 and concluded in 2022. The project improved the building's infrastructure, created modern clinics for improved patient care (including a new special needs clinic), created open, flexible research space to support the school's world-class research, and offered space to foster collaboration. This project addressed the school's most pressing needs; however, due to the size of the overall complex, some areas (remaining research labs, classrooms, and vivaria) were not included in the project scope and will require investment in the future.

School of Education

The School of Education was formally founded in 1921; however, teacher diplomas were first offered at the university in 1874 with master's and doctoral degrees added in the decades following. The school prepares students for professional careers in teaching and administration and offers advanced training and certification for researchers and practitioners at all levels of education. The school is housed in a 1920s building (a former elementary and high school) that has had modest renovations over the past several years. The school has identified additional needs for renovations to better support its mission and improve accessibility.

College of Engineering

The College of Engineering, established in 1895, is renowned nationally and internationally for delivering high-quality education and cutting-edge research to help solve the world's problems. Today, nearly all of the college's undergraduate and graduate programs rank in the top 10 nationally, enabling its students to experience academic excellence at its best. The college occupies over 30 buildings on the university's North Campus, many of which were built over 40 years ago when engineering program requirements were much different than they are today. As

a result, the university continues to renovate and modernize instructional and research facilities as priorities dictate and funds allow. Examples in the past decade include the following: renovation and addition to the G.G. Brown Memorial Laboratories (with support from the State), repurposing the former Ford Nuclear Reactor into the Nuclear Engineering Laboratory Building (with support from donor gifts), and constructing the new Ford Motor Company Robotics Building that included a naming gift and a lease of one floor to Ford. While the projects noted above address many of the college's needs for modern teaching and research space, the college still has a number of departments and programs in aging spaces. The college will soon be updating its strategic facilities master plan to identify its capital project needs and priorities across its many departments. An earlier version of the study helped prioritize the needs of the Computer Science Engineering (CSE) department, currently housed in the Bob and Betty Beyster Building. With state capital outlay support and support from Larry Leinweber and his family foundation, U-M is in the construction phase of building the Leinweber Computer Science and Information Building. This building will address CSE's and the School of Information's needs and is expected to open in 2025. In partnership with the State, the college and U-M are poised to be on the cutting edge of electric vehicle (EV) research, training and workforce development, with the transformational state grant to support U-M in creating an EV center. Planning is underway, and we are thankful for the support from the State to leverage our existing EV and mobility expertise on campus and to create this transformative center.

School for Environment and Sustainability

The University of Michigan began offering classes in forestry in 1881 and was the first university in the United States to do so. In 1903, the university created the Department of Forestry that, over time, transitioned to today's School for Environment and Sustainability (SEAS). Since the late 1880s, SEAS has been a pioneer in developing a scientific understanding of ecosystems, including their conservation, management, and restoration; and trains leaders, assists in policy-making, and teaches the skills necessary to manage and conserve the earth's resources. The school offers degrees at the master's and doctoral levels, as well as certification in fields like conservation ecology, environmental informatics, geographic information systems (GIS) and modeling, environmental policy and planning, and sustainable systems. The school's historic home, the Samuel Trask Dana Building, underwent a series of renovations in the early 2000s, thanks in large part to capital outlay funds from the State. At the time of completion in 2004, it was the first major academic renovation to receive a LEED Gold certification rating for sustainable design and construction in the state of Michigan and among the first in the country. Since this renovation, the school has undergone a significant transformation and strengthened its mission to address real-world climate issues through research and partnerships across campus, the state, and beyond. The school has also experienced significant growth in its enrollment, and it is beginning to look at ways to better meet its academic and research missions in a space that it has outgrown.

School of Information

A formal program in library and information studies began in 1926 when the Department of Library Science was created within the College of Literature, Science, and the Arts. The department became a fully independent school of library science in 1969. In response to rapid changes brought on by technology, the school broadened its teaching and research significantly

in the 1990s and was renamed the School of Information. Its focus is offering a highly interdisciplinary and collaborative approach to education to those who will serve as leaders in the information professions. The School of Information occupies space in the North Quadrangle Residential and Academic Complex (North Quad) and in four off-campus leased spaces, all needed to support their tremendous growth over the past several years. Since 2010, the school has added several new master's programs and an entirely new undergraduate program. To address this growth, the university is constructing the Leinweber Computer Science and Information Building, which is expected to be completed in 2025. We are thankful to the state for their partnership through the capital outlay process and for the generous support by Larry Leinweber via his family foundation to make this project possible.

School of Kinesiology

Kinesiology has been part of the University of Michigan curriculum since the turn of the twentieth century, but the school became an independent unit in 1984. Today, it offers bachelor's, master's and doctoral degrees in a variety of subject areas, including athletic training, health and fitness, movement science, and sport management, and it is a top-ranked program in the nation. Due to the school's tremendous growth, the university recently renovated and transformed the 1915 Edward Henry Kraus Natural Sciences Building (designed by Albert Kahn) for the school and renamed the building the School of Kinesiology Building. This project enabled the school to consolidate its programs into one facility and will accommodate the school's needs for years to come.

Law School

Since its founding in 1859, the Law School has been a national and international leader in the field of law and educational access—in 1870, the school was the nation's second university to award a law degree to an African American and, in 1871, the first in the nation to award a law degree to a woman. The school's graduates work in every state and all over the world in business, as practitioners and professors, as legislators and members of Congress, and as distinguished civil servants and members of the judiciary. In recent years, the Law School was able to significantly improve and expand upon its historic but aging facilities through a series of renovations and construction projects. Many of these projects were only possible by support from donors, like Lisa and Christopher Jeffries and Charles T. Munger, for whom two Law buildings are now named. The school has some aging facilities that will require attention in the future.

University Library System

The University Library system can trace its history to 1838, one year after the university's relocation to Ann Arbor, with the purchase of John James Audubon's Birds of America books that are still on display. Much has changed since the library's founding, but its central role in advancing the university's research and teaching missions continues. Today, the University Library is one of the largest university library systems in the United States, with over 14 million volumes stored in various buildings around the Ann Arbor campus. The library is also leading the university's efforts in materials digitization, online, distance, and digital education, looking at ways to enhance the effectiveness and efficiency of on-campus teaching and educational technology and at ways to expand the university's outreach to new audiences. Such

technological advancements and a general shift in how students and the community interact with collection materials have significantly changed the responsibilities and operations of the library, and as a result, the library has begun to transform the way its buildings are used to provide new ways for the university community to interact with its materials. The University Library's main operations are housed in the Harlan Hatcher Graduate Library (Hatcher) and Shapiro Undergraduate Library (Shapiro)--two interconnected buildings that form one complex in the heart of Central Campus. Hatcher, one of our iconic Albert Kahn-designed campus buildings, is over 100 years old and Shapiro is over 65 years old. Although these buildings are heavily used (with over 2 million visitors each year), they no longer adequately meet campus needs. Both buildings were designed and built at times when libraries' missions were primarily to house stacks of books and to provide places for quiet study and research. Given the building's central location on campus, the buildings would be ideally transformed into modern facilities that offer information, services, and spaces that better support modern teaching, learning, and research, and improve access to digital and print collections. Thanks to the gift from Stephen S. Clark, the library has begun this transformation of their complex with the recently completed Clark Commons on the third floor of the Shapiro library. This 35,000 square feet space serves as a prototype space and provides modern study and collaboration space for students, faculty, researchers, and staff. To continue such a revisioning of the larger complex and to allow for its aging infrastructure to be addressed, a large number of their collections would need to first be relocated. The university is beginning to explore options for creating a long-term, secure and climate controlled facility off-site.

College of Literature, Science, and the Arts

The College of Literature, Science, and the Arts (LSA) is the largest college on the Ann Arbor campus serving the greatest number of undergraduates, and it houses its departments and centers in over 25 different buildings on campus. Due to its large size and diverse curriculum and research, the college is continually making space improvements and conducting modest renovations to meet their academic and research needs and update aging buildings. LSA has identified the Chemistry Building as their highest priority for a more comprehensive solution. The building was built in three phases (1908, 1948, and 1988) and is a total of 545,000 gross square feet. It is used for chemistry research and foundational chemistry and natural science classes that are required by several schools and colleges on campus; however, its research and teaching labs are antiquated, costly to renovate individually and no longer reflect modern science needs. Addressing the Chemistry Building is a high priority to the university, but will take time to address due to the building's size, complexity, and labs that are essential to so many science-related programs on campus, and a study is near completion to determine how to best approach this major project. The university is also looking at options for accommodating the needs of the college's fast-growing majors: Statistics and Economics.

Medical School

Since opening its doors in 1850, the Medical School has been a leader in medical education, biomedical research, and patient care. In addition to its professional Doctor of Medicine program, the school offers master's and doctoral degrees in the basic medical sciences. The school is renowned for its many firsts in medicine, including establishing the nation's first university-owned and operated teaching hospital and creating the first departments of

pharmacology and human genetics in the United States. The Medical School was also among the first major American medical schools to admit and graduate women and minorities. As science and clinical care models continually change in the healthcare industry, it is important that our top-ranked Medical School be nimble to position itself for the future of medical education, and the Medical School continues to renovate and modernize instructional and research facilities as priorities dictate and funds allow. The school is evaluating its existing facilities to determine how they can best support the needs of the learning community, including replacing traditional lecture halls with a variety of flexible, reconfigurable classrooms; an expansion of simulation spaces and labs that support immersive and active learning; and providing spaces that support student well-being.

School of Music, Theatre & Dance

As one of the oldest and largest schools of music in the United States, the School of Music, Theatre & Dance ranks among the top schools of music and conservatories in the country. Degrees are offered at the bachelor's, master's, and doctoral levels in nearly all fields of music, dance, and theater. The school includes five buildings on the university's North Campus and Central Campus. In recent years, the university has worked to improve and modernize the school's facilities. In 2021, the school opened its new Dance building on North Campus. This 24,000 gross square foot building provides dance studios, a large performance studio theater, physical training and student support spaces, and the department's administrative space, and it replaces a small outdated campus building and a leased facility several miles away from the school. The school still has aging facilities on North Campus that will need some attention at some point in the future.

School of Nursing

The School of Nursing has maintained a reputation of excellence for more than 100 years and has been a national leader in the advancement of nursing knowledge and the promotion of trends in health care since its founding. The school offers bachelor's, master's, doctoral, and certification programs in a wide variety of nursing fields, such as pediatrics, gerontology and midwifery. In 2015, the school opened a new 78,000 gross square foot building adjacent to the original building. The building provides active-learning classrooms, a technology-rich clinical learning center with simulation and skills labs and simulated patient suites, offices for student services and a few faculty offices. The original Nursing Building, which is over 100 years old, still houses a number of Nursing's core functions. The university is currently exploring ways to improve their 100-year-old building focusing on student-centric spaces where students, faculty and staff can connect, study and learn. The school is studying options for their main floor to convert outdated office wings into much-needed classroom space and student study and collaboration space.

College of Pharmacy

Established first as a department in 1868, the College of Pharmacy became an independent college in 1876, the first at any university in the United States. Today, Pharmacy is the oldest college of pharmacy in the country and is a top three-ranked program nationally, offering a number of bachelor's, master's, and doctoral degrees in fields such as pharmaceutical sciences, pharmaceutical engineering, and medicinal chemistry. The college currently occupies space in

six buildings on campus, excluding clinical space, five of which were built prior to 1960, so they have aging infrastructure and science research labs and classrooms that reflect a bygone era. For a small college like Pharmacy, being physically distributed across so many locations in aging facilities significantly challenges its ability to meet its core academic, research, and clinical mission, to operate efficiently, and to maintain its high ranking. In May 2019, the U-M Board of Regents approved a project to design a new 130,000 gross square foot building that will co-locate and modernize Pharmacy's core functions, including research, administration, and instructional spaces. The building is currently under construction and is expected to be completed in 2025.

School of Public Health

Though formally established in 1941, the School of Public Health (SPH) can trace its beginning to 1887 when the first professor of hygiene was appointed, and to 1897 when the university awarded its first degree in that field. Today, the school offers undergraduate, master's, and doctoral degrees in fields such as biostatistics, environmental health sciences, epidemiology, health behavior and health education, nutritional sciences, health management and policy, and population and health sciences.

The school occupies a two-building interconnected complex, comprised of the SPH I and SPH II buildings. In 2007, the school renovated and expanded their original 1942 SPH I building with much-needed classroom, research, and administrative space. While this provided the school with their most urgent needs at the time, the project did not address SPH II, the 1971 portion of their complex which has not been significantly updated since it was built. SPH has grown significantly since 2007, and their building complex is failing to meet the school's need to prepare future health care workers who are desperately needed across the state and nation, and even globally. Spaces in the SPH II portion do not meet accessibility, sustainability or modern research standards, and the school is severely lacking critical, modern research spaces and instructional spaces to support this growth.

For that reason, we are submitting a renovation and possible expansion project to the SPH complex as the FY25 state capital outlay request. Capital outlay funds supporting this project would transform outdated research laboratory and classroom spaces to meet the needs of the world class research being conducted by faculty, and the modern pedagogical practices needed to support the school's cutting edge curriculum and programs. These programs have significant community impact in numerous areas including health equity and infectious diseases. A modern SPH complex would support the school's efforts to attract and retain talent in a highly competitive market, and the school can increase its research capacity to inform policy to enhance the overall health and well-being of the community. These factors would contribute to Michigan's talent enhancement, job creation, and economic growth initiatives on local, regional, and statewide levels.

Gerald R. Ford School of Public Policy

The Gerald R. Ford School of Public Policy traces its history to the founding of the Institute of Public Administration in 1914, the first university program in the United States to provide a systematic course of study in municipal administration. Today, named in honor of Gerald R.

Ford, the 38th President of the United States and an alumnus of the University of Michigan, the school prepares graduates for distinguished careers in policy analysis and management and promotes improved public policy through research. Its graduates work in government and in the private and nonprofit sectors all over Michigan, the United States, and throughout the world. Thanks to a generous gift from Joan and Sanford Weill, the school was able to consolidate into a single building, named Weill Hall, in 2006. Since the building's opening, the school has experienced changes in its research and pedagogy, including adding an entirely new undergraduate program (beyond its traditional graduate-level focus). To address this growth, the school continually seeks ways to accommodate its changing needs within its building.

Horace H. Rackham School of Graduate Studies

The Horace H. Rackham School of Graduate Studies oversees and coordinates graduate education, bringing together graduate students and faculty from across the institution to experience and take full advantage of the university as a scholarly community. In 2003, a major renovation of the historic Horace H. Rackham Building, originally constructed in 1938, was completed. Additional infrastructure improvements to the facility were completed in 2015. Given the iconic building's age, historic significance, and its prime location as an event and study facility on Central Campus, it is a building that will require ongoing upkeep.

School of Social Work

The program in Social Work began in 1921 and was granted the status of a school in 1951. The School of Social Work consistently ranks as one of the top programs in the nation and offers master's and doctoral level degrees and continuing education that prepare practitioners, researchers, and academics in the fields of interpersonal therapy, community organization, management of human services, and social policy and evaluation. Its graduates work throughout Michigan, the U.S., and the globe, with individuals, children and their families, organizations, and communities in such fields as substance abuse, aging, mental health, education, child and public welfare, and public policy. In 2018, the school completed a minor renovation of spaces in the School of Social Work Building that were previously occupied by a number of non-social work functions. This project was able to address some of Social Work's most pressing needs for administrative, faculty, instructional, and student service spaces.

III. Staffing and Enrollment

The University of Michigan Ann Arbor enrollment surpassed 50,000 this fall for the third year running and increased 800 students compared to fall 2022. Over the last two decades, enrollment has grown modestly at 1.5% per year. In the next several years, enrollment growth is expected to continue at a similar pace, with growth in online course and program offerings and undergraduate summer class enrollment being pursued. Detailed fall enrollment data by school and college for the most recent five years is in Appendix A.

Average class size varies by discipline. In fall 2022, 56 percent of the primary sections taught to undergraduate students had fewer than 20 students. Some sections are taught to large groups where appropriate; 18.9 percent of the total undergraduate sections had 50 or more students in fall 2022.

The full-time equivalents (FTEs) of faculty and staff supported by the General Fund displayed a compound annual growth rate of 2.2 percent from fall 2013 through fall 2022. The volume of research expenditures, the total from grant and university sources, has increased 3.0 percent per year over the past 10 years.

In-person instruction has returned to being the norm after pandemic-induced remote instruction, although the university remains aware of the possibility that evolving pandemic conditions may call for adjustments to the mode of instruction.

Several schools and colleges—including the College of Engineering, Medical School, School of Nursing, School of Public Health, Stephen M. Ross School of Business, School of Information, and School of Social Work—are offering distance learning to non-residential students. The U-M Center for Academic Innovation provides support for the development of new online offerings, some of which are degree-granting while others lead to other credentials or support lifelong learning.

IV. Facility Assessment

Physical Properties

The university owns approximately 3,200 acres of property within the Ann Arbor area and approximately 21,000 acres overall (most within the State of Michigan). The approximate replacement value of the Ann Arbor area campus facilities is \$10.6 billion¹. A summary of the university's land holdings is included in this section. See Appendix B for a list of buildings including building type, gross square feet, and (where available) the deferred maintenance backlog for the building.

University of Michigan Land Holdings (Expressed as Acreage)

	2019	2020	2021	2022	2023
Ann Arbor Area:					
Properties Supported by General Fund	1,711	1,711	1,711	1,711	1,711
Auxiliary Activities:					
Student Residences	32	32	32	32	32
University Hospitals Group	430	427	427	452	452
Other	1,018	1,018	1,018	1,018	1,018
Total Ann Arbor Area	3,191	3,188	3,188	3,213	3,213
Outside the Ann Arbor Area:					
Dearborn Campus	228	228	228	228	228
Flint Campus	51	51	51	50	50
Other Michigan Properties:					
Biological Station	10,329	10,329	10,329	10,329	10,329
Osborn Preserve	3,188	3,188	3,188	3,188	3,188
Willow Run	156	156	156	156	156
Other	3,649	3,649	3,649	3,649	3,649
Out-State Land	17,601	17,601	17,601	17,600	17,600
Camp Davis - Wyoming	120	120	120	120	120
Grand Total	20,911	20,909	20,909	20,933	20,933

Facility Condition Assessment

Buildings across the university are regularly evaluated to identify and prioritize infrastructure needs, which vary by building type, use, and occupants. For instance, U-M Health facilities have regulatory and accreditation requirements. Student Life manages priorities related to residence halls and student living accommodations.

¹ The replacement value does not include properties outside of Ann Arbor, such as Sparrow Health System, University of Michigan Health-West and the Biological Station.

Academic buildings, as a more detailed example, are managed under the Facility Condition Assessment (FCA) Program. The FCA Program evaluates buildings to identify infrastructure deficiencies and establish a priority for funding renovations and repairs. The objective of the program is to develop and maintain a 5-year model showing facility-related needs and track the status of each project through completion. The model considers the highest priority needs and spreads such needs over a 5-year period.

The FCA Program maintains a comprehensive database on the physical condition of the academic building portfolio. The database is regularly updated and stores facility condition data on most major building components and systems, including architectural, structural, civil, mechanical, electrical, life safety and fire protection, environmental health and occupational safety, and building accessibility.

FCA Priority Classification System

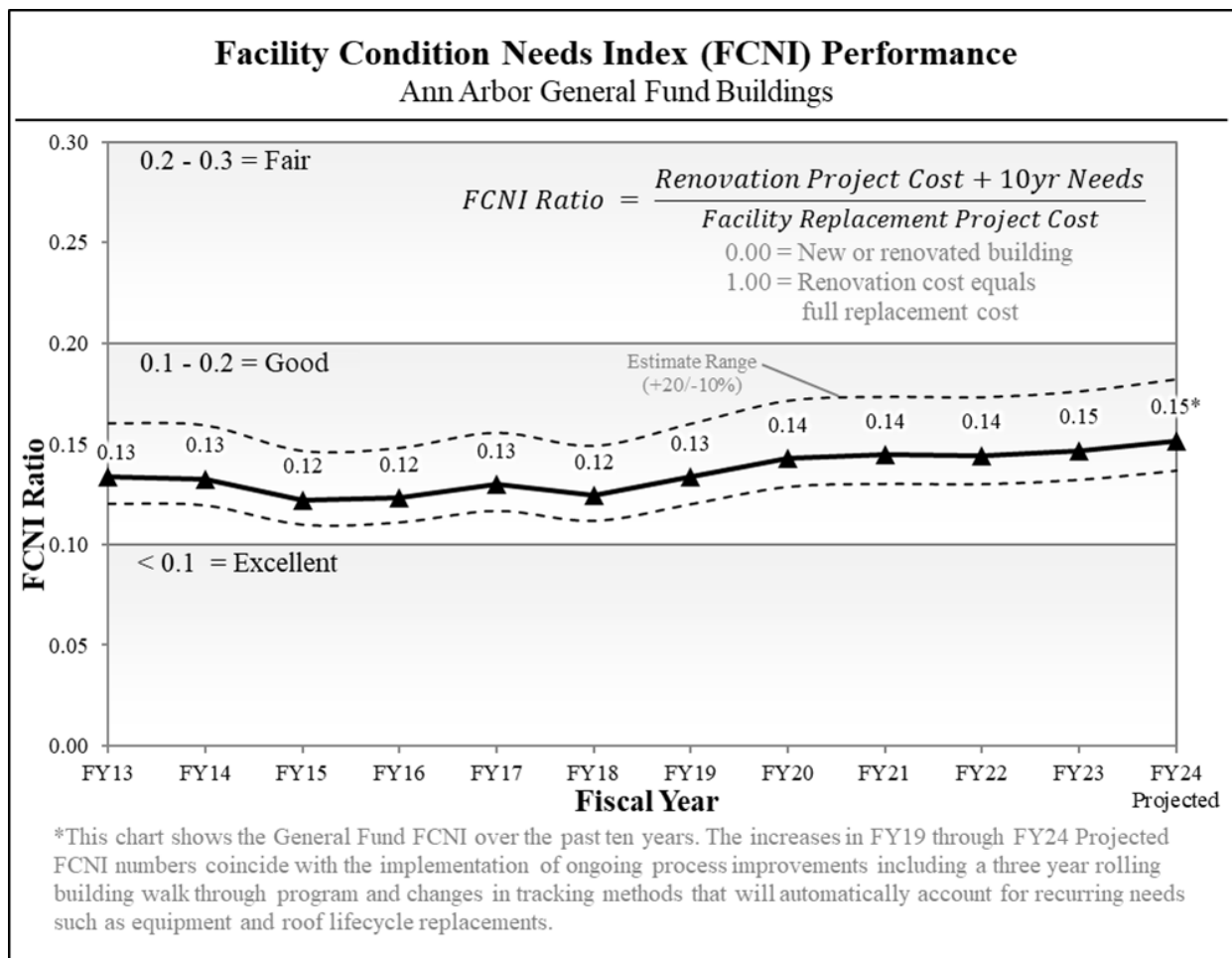
The following system was developed to help clarify priorities and support consistency in planning and decision-making:

Priority Level		Definitions
Necessary	Priority #1 Critical	Needed work that requires near-term action to accomplish one or more of the following: (1) restore building occupancy due to natural disaster or catastrophic failure (2) address cited or known life-threatening safety hazard
	Priority #2 High Priority	Needed work that requires near-term action to accomplish one or more of the following: (1) avoid situation from becoming a priority #1 (2) prevent accelerated deterioration of building component or system (3) replace component that has worn out or is no longer in service (4) avoid loss of critical system that would significantly affect services, impact occupancy, or create a safety hazard (5) address existing non-life-threatening safety hazard (6) maintain, restore, or upgrade conditions to minimum acceptable university standards (7) reduce unacceptably high maintenance, energy and/or other operating costs (economically justified via payback) (8) meet program requirements
Deferrable	Priority #3 Necessary	Needed work that is expected to become a priority #1 or #2 within the next 10 years.

	<p>Priority #4</p> <p>Deferrable until Building Renewal</p>	<p>Needed work that can probably wait more than 10 years. This work will be completed during a building renewal.</p>
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Facility Condition Needs Index

The facility condition needs index (FCNI) is the cost required to address all known deficiencies needed within the next ten years divided by the total replacement cost of that building. A lower ratio is more favorable. This indicator is useful in determining which buildings should be considered for major renovations or upgrades and used for trend analysis.



V. Implementation Plan

Major Projects by Campus

Campus Plan 2050 is a new presidential initiative that is guiding near-term and long-term strategic development of campus. The planning process began in early 2023 and is aligned with Vision 2034, which is a presidential strategic visioning initiative. Combined, these efforts will provide robust guidance for the creation of a 5-year and 10-year plan, both tied to capital plans, as well as a 25-year longer-term land use plan. These initiatives will be completed in 2024 and will set an agenda for future investment decisions driven by our mission and vision.

Instruction and research aspirations and mission-related requirements—including continued emphasis on active learning, preservation of knowledge, interdisciplinary and collaborative research and instruction, increased flexibility and adaptability, and improved synergies among faculty and students—drive renovations and additions planned within the next five years. Other considerations include deferred maintenance requirements, our carbon reduction goals, and continuing to densify the campus core. For Michigan Medicine, a strategic need to recruit and retain staff has spurred exploration of opportunities to provide childcare.

To support all of these programmatic needs, and to improve synergies between Central, Medical and North Campus, planning is continuing to advance for consideration of an automated guideway system and/or bus rapid transit. Such improved transit service will enable U-M in Ann Arbor to function as a single campus, encouraging more mobility for students, faculty and staff.

The university has also been focused on improving housing to support students over the last 20 years. After initially addressing important life safety needs, the university invested in major renovations and continues to plan new and replacement housing for its aging housing stock. A major current focus is the construction of a new 2,300-bed undergraduate student residence and dining facility on Central Campus.

Each campus has a unique set of facility requirements, associated land uses, operational requirements and degree of activity that require tailored approaches to facility planning as described in the following section. This section also lists major projects (over \$5 million) in various stages of consideration, planning, design or construction. These projects support student life, modern learning and collaboration, patient care, sustainability, and the university's commitment to nourish the arts and advance the public good. Over the next five years, a wide variety of infrastructure projects or programmatic changes will emerge that will initiate the development of projects not on the lists.

Central Campus and Medical Center Campus

The development of Central Campus remains consistent with university planning principles that promote renovating and re-purposing existing facilities while maintaining the character of the historic core. Medical Center Campus planning continues to focus on renovations and

redevelopment opportunities as well as addressing infrastructure, transportation and site improvements to support existing facilities. Michigan Medicine's ongoing strategic facilities master planning effort may impact planning for the future of the Medical Center Campus core area as well as the Wall Street district, the North Ingalls area, and East Medical Campus.

A significant number of projects, some highlighted below, respond to growth pressures by academic and research initiatives as well as patient care needs.

- Construction continues for the new adult clinical inpatient tower (D. Dan and Betty Kahn Health Care Pavilion) on the Medical Center Campus in response to high demand for patient rooms and surgical suites. The 690,000-square-foot project will be completed in 2025 and will accommodate an inpatient care program with single-occupancy patient rooms and surgical/interventional radiology suites. Specifically, the patient program emphasizes improved access to clinical neurosciences and cardiac care services. Relocation of existing clinical services from University Hospital will allow for future redesign and growth for patient programs remaining in that facility.
- Construction has started on a new teaching and research facility to address the College of Pharmacy's need to consolidate and modernize its space. The new building will house active learning-style classrooms, teaching and research wet laboratories, and associated support spaces.
- Construction has started on a new recreational sports facility to replace the university's largest recreational sports center, the former Central Campus Recreation Building. The new 200,000-square-foot Hadley Family Recreation & Well-Being Center will enable greater access and opportunity for students, faculty and staff to improve their health and well-being. A 23,000-square-foot temporary recreation facility on Palmer Field was constructed to provide Central Campus with indoor recreation space during the construction of the new facility. This facility provides nearly 90 percent of the most popular workout space for students, including strength and cardio equipment and a small indoor track.
- Construction is underway for a 60,000-square-foot renovation of the B and D Wings of the Medical Science Unit I Building to address deferred maintenance and convert obsolete wet lab research space into an efficient and collaborative dry and computational research space for the Medical School's Computational Medicine and Bioinformatics department.
- Construction work has commenced on a replacement building for the Ginsberg Center. The new facility will support the Ginsberg Center's mission to enhance community and civic engagement and will include a geo-exchange heating and cooling system to support the university's carbon neutrality goals.
- Construction is underway to replace the electrical substation serving University Hospital, which is nearing the capacity limit to support facility upgrade projects. The new substation will provide greater reliability and efficiency.

Current and Planned Major Projects (>\$5M) Central and Medical Center Campuses FY23-FY27			
PROJECT/BUILDING & STATUS	PROJECT TYPE	GROSS SQUARE FEET	ESTIMATED \$ (MILLIONS)
U-M Health Clinical Inpatient Tower (D. Dan and Betty Kahn Health Care Pavilion) [in construction]	New Construction	690,000	\$920
College of Pharmacy – New Building [in construction]	New Construction	142,000	\$141
Central Campus Recreation Building Replacement [in construction]	New Construction	200,000	\$165
Medical Science Building 1 [in construction]	Renovation	60,000	\$42
Edward and Rosalie Ginsberg Building [in construction]	New Construction	11,000	\$10.5
U-M Health University Hospital Electrical Substation Replacement [in construction]	Replacement	N/A	\$11.7
New Michigan Marching Band Practice Field	New Construction	6.5 acres	\$15.5
New Central Campus Residential Development	New Construction	687,000	\$631
Observatory Hall	Renovation	TBD	TBD
Residential	Replacement/ Demolition	TBD	TBD

North Campus

With the greatest capacity for future growth and development, North Campus continues to be a high priority planning focus. Efforts to strengthen and reinforce connections internally on North Campus, as well as between campuses, and strategies to further enliven and enrich student life remain a primary focus of ongoing planning activities. Currently, about 30 percent of students who live in U-M housing reside on North Campus.

Construction is underway for the Leinweber Computer Science and Information Building. This project will address projected growth over the next 10-15 years. The space and enrollment growth challenges faced by the College of Engineering and the School of Information are similar, and both units will benefit from this project.

Construction has started on the adjacent Hayward Street Geothermal Facility. It will supply heating and cooling to the Leinweber Building and make it the first large-scale university building to not rely on natural gas for heating. The Hayward Street Geothermal Facility will have

the capability to integrate with district geothermal systems as recommended by the President's Commission on Carbon Neutrality.

Current and Planned Major Projects (>\$5M) North Campus FY23-FY27			
PROJECT/BUILDING & STATUS	PROJECT TYPE	GROSS SQUARE FEET	ESTIMATED \$ (MILLIONS)
Residential [paused]	Replacement/ Demolition	TBD	TBD
Leinweber Computer Science and Engineering and School of Information Building - FY20 Capital Outlay request [in construction]	Renovation/ Addition	163,000 Addition	\$145
Hayward Street Geothermal Facility [in construction]	New Construction	4,000	\$20
Recreational Sports Fields Hubbard Road [in construction]	New Construction	9.5 acres	\$14

Stephen M. Ross Athletic Campus

The Ross Athletic Campus is primarily a venue for the Athletics Department, with numerous athletic fields and facilities. Recent facility improvements by the Athletics Department have resulted in a number of projects that improved student recreation and enriched the experience for student athletes. The obsolete Michigan Stadium scoreboards have been replaced with more reliable and more energy-efficient equipment. The campus planning initiative is exploring potential redevelopment of the historic core of the Ross Athletic Campus to better serve long-term needs.

Current and Planned Major Projects (>\$5M) Ross Athletic Campus FY23-FY27			
PROJECT/BUILDING & STATUS	PROJECT TYPE	GROSS SQUARE FEET	ESTIMATED \$ (MILLIONS)
Ferry Field Improvements	TBD	TBD	TBD

East Medical Campus

East Medical Campus is primarily an outpatient clinical care complex that includes associated research and medical education activities. Projects for this location might include elements such as water supply, storm water management, transit and non-motorized transportation strategies, parking, and infrastructure.

Michigan Medicine Off-Campus

The volume of ambulatory care and specialty care visits continue to grow and the need for strategically located outpatient facilities is core to Michigan Medicine's plan to improve access to patient care. In early 2023, U-M Health acquired Sparrow Health, creating a larger, 200-site

clinical-care network. U-M Health has committed to invest \$800 million in Sparrow. This expands on Michigan Medicine's overall strategy to deliver enhanced and comprehensive services in the communities where patients are located. Previous off-campus facilities include the Northville Health Center, West Ann Arbor Health Center, and Brighton Health Center South.

Michigan Medicine continues to evaluate potential affiliations and initiatives to expand access, quality, and level of care to patients. The Specialty Pharmacy project is one such initiative. Expansion of the Specialty Pharmacy will double the number of prescriptions filled in-house per year to provide high-quality, convenient care for patients.

Current and Planned Major Projects (>\$5M) Michigan Medicine Off-Campus FY23-FY27			
PROJECT/BUILDING & STATUS	PROJECT TYPE	GROSS SQUARE FEET	ESTIMATED \$ (MILLIONS)
U-M Health Specialty Pharmacy Expansion [in construction]	Renovation	48,000	\$52

Detroit Academic Off-Campus

The university continues to identify ways to support and strengthen engagement efforts and partnerships within the City of Detroit. The university is conducting a study of a phased renovation to the Rackham Detroit building to create a central hub for U-M engagement in Detroit and co-locate programs currently in multiple leased properties in the Midtown Detroit area. The university also continues to explore potential academic initiatives through the construction of the University of Michigan Center for Innovation.

The university is part of a consortium that is creating a new, innovative educational partnership and neighborhood revitalization efforts on the campus of the former Marygrove College in northwest Detroit. When fully realized, Marygrove will be a “Cradle-to-Career” campus with educational opportunities from prenatal to Pre-K, K-12 to post-secondary graduate, as well as community services and engagement programs.

Facility Updates and Adaptation

Each year a significant number of infrastructure projects are prioritized through the Facility Condition Assessment Program as described in Section IV. A planning priority is to adapt existing facilities to meet current and future program needs by updating building infrastructure and re-programming/reconfiguring existing buildings. Over the next five years, the university will implement various projects in this category.

Status of State Building Authority Projects (Ann Arbor)

Completed Projects	Lease Start Date	Lease Termination Date
School of Dentistry Renovation and Addition	August 1, 2022	August 1, 2057
G.G. Brown Memorial Laboratories Renovation	September 1, 2017	September 1, 2052
Student Activities Building Renovation	December 1, 2009	December 1, 2044
Michigan Memorial Phoenix Laboratory Renovation	December 1, 2009	December 1, 2044
Observatory Lodge Renovation	November 1, 2008	November 1, 2043
Literature, Science and the Arts Building Renovation	August 1, 2007	August 1, 2042
West Hall Renovation	January 1, 2005	January 1, 2040
Mason Haven and Haven Hall Renovations and Addition	November 1, 2005	November 1, 2040
S.T. Dana Building Renovation	November 1, 2003	November 1, 2038
Perry Building Renovation	November 1, 2003	November 1, 2038

VI. Capital Outlay Project Request FY25

Institution Name:	University of Michigan – Ann Arbor
Project Title:	School of Public Health Renewal
Project Focus:	Academic, research
Type of Project:	Renovation and potential addition
Project Focus of Occupants:	Public health research, education, and outreach programs, including biostatistics, environmental health sciences, epidemiology, health behavior and health education, health management and policy, and nutritional sciences
Approximate Square Footage:	172,000 gross square feet
Total Estimated Cost:	\$150 million
Estimated Start/Completion Dates:	Preliminary programming underway. Construction completion TBD.

Is the Five-Year-Plan posted on the institution's public internet site?	Yes
Is the requested project the top priority in the Five-Year Capital Outlay Plan?	Yes
Is the requested project focused on a single, stand-alone facility?	Yes

Project Purpose

Since 1941, the University of Michigan School of Public Health (SPH) has pursued a healthier, more equitable world through education, research, and action. Compassion, innovation, and inclusion drive the School's faculty, staff, students, and more than 18,000 alumni to pursue positive change and improve the world's health.

Ranked fifth among the top schools of public health in the country and second in public schools, the School trains more than 1,300 graduate and undergraduate students each year. U-M SPH is the largest and most robust school of public health in the state and the only school that offers doctoral degrees in public health disciplines. With more than 190 faculty and researchers across six academic departments and numerous collaborative centers and institutes, SPH produces impactful research to find lasting solutions to pressing public health problems. SPH strives to lead in creating health and equity for populations worldwide. The School pursues health and

equity for all through its three strategic drivers: interdisciplinary research and transformative impact, educational innovation and excellence, and a culture of leadership, service, and inclusion.

The School currently occupies a two-building interconnected complex. The first School of Public Health building (SPH I) opened in 1943, followed by a second building (SPH II) in 1971. In 2006, the 1943 building was expanded with a new research and admin tower and bridge that connects SPH I and II at nearly every level. There have been no major architectural or infrastructure renovations or upgrades since that time. The SPH facilities complex totals 210,000 NSF (338,000 GSF).

In December 2022, the Association of Schools and Programs of Public Health published the results of a study that demonstrated a 1,100% increase in undergraduate public health degrees from 2001 to 2020. Public health continues to be one of the fastest-growing degrees in the nation. U-M SPH first accepted undergraduate students in 2017, and it plans to increase its enrollment over the next five years. Currently, the School has 215 undergraduate students enrolled.

Our vision for improved SPH facilities focuses on enhancing instructional space, expanding research space and opportunities, and developing appropriate student study areas, collaboration spaces, and other support facilities. This would be accomplished by revamping existing facilities in the complex and potential expansion.

One of our key focuses is on transforming instructional practices to meet the demands of a modern academic landscape. After a multi-year effort, SPH launched a redesigned core curriculum for the MPH program. This core program prepares students to engage with the world's greatest public health problems. SPH's classrooms currently do not support the pedagogical approaches required to support the new core. The School has a vast need for large, flexible classrooms that move with the nuanced shift in teaching trends toward collaboration and technology. These adaptive spaces would feature movable furniture, advanced projection capabilities, and larger layouts to support team-based learning and problem-solving. Classrooms with this flexibility would be conducive to SPH's evolving curriculum designs.

Next, we aim to address the current limitations of the SPH research facilities (smaller, outdated individual spaces without shared infrastructure and support) and create new, flexible shared research labs. This particularly extends to facilities that accommodate wet lab areas for chemical and biological specimen analysis. Improving these spaces is important for advancing public health research and discovery and critical for attracting and retaining quality faculty.

Lastly, we envision making strides in creating enhanced student support facilities which can include study areas and collaborative spaces. These spaces are vital in fostering a productive learning environment and promoting interdisciplinary cooperation as well as student success and wellness. By designing facilities that encourage dialogue and teamwork, we aim to facilitate

academic excellence and integrated problem-solving. Just as important are support spaces, dedicated to meeting the ancillary needs of students and staff for a rounded educational experience.

By embracing these targeted areas of enhancement, we believe that the improved complex will support the wide range of critical work that will allow public health issues to be addressed more effectively for generations to come.

Scope of the Project

The School of Public Health has grown substantially since the last space addition in 2006, especially over the past ten years. The current School of Public Health facilities are inadequate to accommodate the growing number of students, faculty, staff, research, and programmatic needs of its six academic departments, undergraduate program, and online master's in public health (MPH). The demand for public health education has steadily increased, and the current facility lacks sufficient classroom space, research labs, and administrative offices to support this growth. Strategic renovation of and potential expansion to the SPH facilities would increase capacity, enabling the School to enroll more students and provide a conducive learning environment.

The number of people in the School of Public Health continues to grow steadily. Over the past ten years, its student enrollment has increased by more than 35%. A top priority is to increase undergraduate enrollment, yet SPH severely lacks large classroom spaces to teach its undergraduates. Expected growth in this program will exacerbate the issue and further limit course availability. The School's research enterprise has experienced significant growth over the past five years. The School is already beyond capacity for much of its critical research needs. Public health education and research require state-of-the-art facilities to support innovative teaching methods and cutting-edge research initiatives.

The proposed School of Public Health project will address the needs described above and provide an up-to-date environment that enables the school to successfully fulfill its core teaching, research, and outreach mission and remain a top-ranked public health program in the U.S. The school plans to initiate early planning work with a team of architects and engineers on a program study of its needs and develop a conceptual design to support a future capital project (pending approval to proceed from the university's Board of Regents). Our approach is to study the entire complex and determine the best way to meet the school's highest priorities while addressing end-of-life systems in the SPH II portion of the complex.

The eight-story SPH II portion was built in 1971 and has only received modest, cosmetic renovations over the course of its life --- most recently in 2006 to some of its classroom spaces. The project would support selective program changes, finish upgrades, improve accessibility and energy performance, renew the building's infrastructure, and address building code items. The study will help determine which areas of SPH II would benefit from deep renovation and reprogramming and which areas would be best left to their current uses, with upgraded

infrastructure and finishes. Based on prior infrastructure evaluations of the over 50-year-old building, we know that HVAC, electrical, plumbing, fire alarm, fire suppression, elevators, and life safety systems will need to be addressed. Improving accessibility is in keeping with the university's diversity, equity, and inclusion goals. The investment in basic infrastructure renewal will extend the life of the building by another 50+ years. Additionally, the study would examine which portions of the SPH I side of the complex (opened in 2006) would best support the school's priorities given its more modern infrastructure and layouts.

Lastly, the study will determine how the school's need for growth and modernization can best be achieved in the two sides of the facilities and what would require expansion space due to limitations within the complex. To create modern spaces for large format team-based learning and flexible research labs, a thorough analysis of the complex's infrastructure affordances and limitations will be needed. Densifying spaces and maximizing uses in SPH I and II will be paramount; however, we do not want to preclude that an expansion to the facilities, via a potential addition, might be needed to provide the proper infrastructure to support modern research and teaching needs. Such spaces might require different floor-to-ceiling heights, broader floor plates, or more robust mechanical systems than the current SPH complex can accommodate at a reasonable cost.

We plan to reuse as much furniture and equipment as feasible in the renovated spaces and, therefore, plan to carry a modest furniture, fixtures, and equipment budget within the project for selective furniture replacement. More will be known once the study is completed.

Program Focus of Occupants

The occupants who will benefit from the School of Public Health renewal project pursue research, education, and outreach in fields such as biostatistics, environmental health sciences, epidemiology, health behavior and health education, health management and policy, and nutritional sciences. With enhanced instructional space, expanded research space, improved outreach opportunities, and the development of suitable student study areas and collaboration spaces, School of Public Health students, faculty, and staff will grow and be better equipped to create a healthier, more equitable world.

Additional Information

1. How does the project support Michigan's talent enhancement, job creation and economic growth initiatives on a local, regional and/or statewide basis?

A renovation and potential expansion of the School of Public Health will have a broad impact. Importantly, modern facilities are required to deliver on our educational mission and support our research enterprise. The construction process creates jobs, an improved facility supports our efforts to attract and retain talent, and the School can increase its research capacity to inform policy to enhance the overall health and well-being of the community. These factors contribute

to Michigan's talent enhancement, job creation, and economic growth initiatives on local, regional, and statewide levels.

The World Health Organization [estimates](#) that by 2030, there will be a shortfall of 10 million health workers worldwide. This shortage will have the greatest impact on lower-income countries. The impact of shortages of health workers will be felt worldwide. International migration, the increased ease of disease transmission, and the consequences of climate change on health will only add to the growing need for healthcare workers and public health professionals ready to prevent and quickly respond to disasters and crises as they unfold.

Local Impact

Job Creation: Renovation construction will generate temporary jobs for local construction workers, boosting the local economy during the building phase.

Educational Opportunities: The facility can offer new academic programs, attracting students and faculty. This, in turn, creates jobs for professors, administrative staff, and support personnel. Additional space also allows the School to continue growth, especially in the undergraduate program. This will result in more public health graduates meeting the growing workforce demand. Growth in educational programs results in more students earning a college education that sets them on a pathway to qualify for jobs that provide financial stability and important benefits like health insurance.

Research and Innovation: A renovated building can foster research collaborations with local businesses, leading to innovative solutions. Increasing the research enterprise requires the hiring of additional researchers, staff, and student employees, contributing to job creation and growth in southeast Michigan.

Regional Impact

Talent Attraction and Retention: A modern facility can attract top-tier talent, including faculty and researchers. This, in turn, helps retain talent in the region, providing a conducive environment for research and teaching. Attracting talented individuals often brings families to the areas that buy homes and contribute to the local economy and educational tax base.

Community Outreach: The School of Public Health can engage with regional communities through public health programs, workshops, and partnerships. This can improve the health and well-being of the local population, indirectly contributing to economic growth. The School currently has limited space for community partnerships and programming. Selectively replanning space with an eye toward collaborative facilities is critical to the work of public health to make a positive impact on the health of communities in the region.

Statewide Impact

Workforce Development: Growth in the School contributes to workforce development in public health, producing graduates who can fill critical roles in healthcare, government, and nonprofit sectors across the state.

Research and Policy Influence: Research conducted in the renovated building can inform state-level policy decisions, potentially improving public health outcomes and economic policies. Specifically, public health research and expertise about health equity, healthy cities, infectious disease, climate health, and firearm injury prevention are more important and necessary than ever. Research in the school provides elected officials and leaders with the data needed to develop policy that improves the lives of Michiganders.

Economic Diversification: By promoting public health research and initiatives, the state can diversify its economy, reducing dependency on specific industries. Outside the healthcare system, public health can provide leadership and services that directly impact the health of Michiganders to address and find solutions to a broad range of health-related issues (e.g., environmental exposures, food deserts, healthcare access for vulnerable communities).

Statewide Public Health Impact: The School of Public Health has a long history of working with state and local health departments and community organizations to improve the health of Michiganders. Below are a few examples of recent work that has had a significant impact on public health in our state. Investing in improving the School of Public Health facilities and in turn attracting and retaining top-tier faculty will create additional opportunities to support public health efforts across the state.

- COVID-19: In early 2020, School of Public Health faculty began collaborating with MDHHS and Gov. Gretchen Whitmer's office on the state's COVID-19 pandemic response. Working with the Michigan Economic Recovery Council, the researchers developed a framework that became known as the [MI Safe Start Plan](#), which included a [web app](#) and dashboard that helped the state gradually and safely reopen the economy and resume in-person activity. Now, SPH researchers continue to conduct [COVID-19 wastewater surveillance](#) as part of the MDHHS's statewide monitoring efforts, providing data that allow researchers and local and state leaders to better understand community spread and impact of public health protections. Additionally, another group of researchers is partnering with MDHHS to [conduct public health surveillance](#) to learn about Michiganders' experiences with COVID-19 using a representative sample of confirmed cases within the state and document inequities in the impact of COVID-19 illness on communities throughout the state.
- Infectious Disease Modeling: The School of Public Health was recently [selected as one of 13 partners](#) to receive \$17.5M in CDC funding to establish the Michigan Public Health Integrated Center for Outbreak Analytics and Modeling (MICOM) in partnership with MDHHS. The center will support the development of a number of modeling and data analytics tools and pipelines to be integrated into MDHHS workflows to address public health emergencies and current infectious disease threats.
- Youth Violence Prevention: The [Michigan Youth Violence Prevention Center](#), housed at the School of Public Health, brings together researchers, practitioners and policymakers to prevent youth violence. This includes a [community-based intervention](#) in Muskegon, where researchers are partnering with community groups, economic development

organizations, health departments, hospitals and police departments to develop, implement and evaluate efforts that aim to reduce youth firearm violence.

- Food Insecurity: SPH researchers have [partnered with the Michigan Farm Bureau](#) to understand the unique challenges urban and rural families face when accessing nutritious meals through food assistance. The [Feeding MI Families](#) project works directly with families to uncover their needs, desires and barriers to food assistance in an effort to build new ways for families in Michigan to access food with ease, dignity and respect.
- Housing: A [new initiative](#) led by the School of Public Health aims to identify strategies to promote health equity in housing systems and policy in Michigan. The mission of the Housing Solutions for Health Equity initiative is to inform local, state and national policy through interdisciplinary research on housing as it relates to equity in health, race, socio-economic status and aging. While the initiative is not limited to Michigan, many [projects](#) focus on Detroit and other Michigan cities.

2. How does the project enhance the core academic, development of critical skill degrees, and/or research mission of the institution?

A state-of-the-art building can significantly enhance the University of Michigan School of Public Health's core academic offerings, skill development programs, and research mission by providing modern facilities, fostering collaboration, and promoting innovation and sustainability.

State-of-the-Art Facilities: This project can provide modern classrooms, labs, and research spaces with the latest technology. This fosters a conducive environment for teaching and research. As a top program of public health in the nation, Michigan is well-positioned to continue to recruit the brightest in the field to contribute to scientific advancement directly. SPH has a history of extraordinary achievement through vaccine development, groundwater studies, landmark population-level health studies, congressional testimony on research and policy, community-based participatory studies, and the development of revolutionary tools and techniques to understand genetic variants associated with some of the most devastating diseases and disorders of our time (i.e., diabetes, heart disease, bipolar disorder). Many of these achievements occurred when the facilities were new and had state-of-the-art technology. Faculty cannot conduct groundbreaking research without dramatically improved laboratory space and access to new technology and equipment.

Universal design principles are fundamental to improving accessibility and resolving physical barriers in existing buildings. Additionally, a visually appealing and functional facility would create a positive learning environment, boosting student satisfaction and retention rates.

Increased Capacity: This project will allow us to strategically replan existing space to improve functionality and increase operational efficiency allowing the school to expand its academic programs and research initiatives. Its research enterprise has experienced significant growth over the past five years. The School is already beyond capacity for much of its critical research needs. Both generators that provide backup power to research facilities are insufficient for the

current demand. The school needs higher-capacity generators for additional research facilities to support more emergency power. The autoclaves that support labs are ancient and must be replaced (at least three new autoclaves are required to continue work).

Freezer storage, which is necessary to meet the terms of research projects, is at capacity. The school's animal care facilities are small and have limited storage space. SPH does not have an autoclave or cage washer in its existing facility, so cages and equipment require transportation to the Life Sciences Institute for sterilization and cleaning. This is nearly a half mile away. Safety, security, and operational efficiency are significantly hampered by this.

Collaboration Opportunities: Renovated and replanned space can facilitate interdisciplinary collaboration among various departments and schools, fostering a culture of innovation and problem-solving. Many research lab spaces are small, confined 100-square-foot rooms with a single bench, creating significant space inefficiencies. These isolated and discrete laboratory spaces are assigned to a single Principal Investigator by necessity, which serves as a barrier to working with other scientists. The labs are not equipped for modern lab science and are not flexible or easily modifiable.

In 2021, the school launched [Public Health IDEAS](#) (Interdisciplinary Discovery, Engagement + Actions for Society) with a \$1 million investment to increase collaboration and advance research and engagement in key areas to achieve meaningful, lasting impact. Interdisciplinary research is the foundation of this initiative, and the school lacks the space for this type of collaboration. Public Health IDEAS has four priorities that have significant statewide impact potential from creating and building health equity, firearm injury prevention, and combating infectious diseases. The School plans to add to these priorities but is severely hindered by a lack of laboratory, collaborative, and meeting spaces for the faculty conducting this research.

Enhanced Learning Environment: Updated facilities will improve the overall learning experience for students, making it more attractive to prospective students and faculty. The School of Public Health has grown substantially since the last space addition in 2006, especially over the past ten years. The current School of Public Health complex is inadequate to accommodate the growing number of students, faculty, staff, research, and programmatic needs of the School's six academic departments, undergraduate program, and online master's in public health (MPH). The demand for public health education has steadily increased at both U-M and nationwide. The current SPH complex lacks sufficient classroom space, research labs, and administrative offices to support this growth. Modernizing the outdated portions of the complex and potentially expanding would increase capacity, enabling the School to enroll more students and provide a conducive learning environment.

A top priority is to increase undergraduate enrollment, yet the School severely lacks large classroom spaces to teach undergraduates. Expected growth in this program will exacerbate the issue and further limit course availability. This in turn will hinder SPH's ability to address the shortfall in health care workers we are facing statewide and globally.

As noted above, after a multi-year effort, this fall SPH launched a redesigned core curriculum for its MPH program to prepare students to engage with the world's greatest public health problems. Modern classrooms are imperative for students to succeed in this curriculum and in their future professional lives. This part of campus lacks the large classrooms needed to support the SPH curriculum, especially well-equipped, active, and team-based learning classrooms to meet the needs of its redesigned core.

Group study space for students is severely lacking in the school. There are only two spaces that are dedicated study areas for groups. Much of the School's curriculum requires teamwork, and it is challenging for students to find space to complete their assignments together. Increasing group study areas and private, quiet spaces are important to student well-being and success. SPH student services lack space and urgently need to grow support services to match the needs of its expanding student body and this area of campus. The proposed project will support the creation of spaces that support equity, inclusivity, and diversity. Additionally, many of the School's spaces do not meet current accessibility standards, which creates issues with equity and causes stress to individuals in the school.

Research Advancements: The proposed would allow the school to modernize and expand its wet research lab spaces, better enabling faculty and students to conduct cutting-edge research in public health and contribute to the institution's research mission. Public health education and research require state-of-the-art facilities to support innovative teaching methods and cutting-edge research initiatives. The current state of the laboratories is extremely limiting in terms of what they can support in research. The need to be able to add more wet lab space to study chemical and biological specimens is crucial to faculty recruitment and retention. Other unique needs for public health research that would be supported by the renovation include spaces that can accommodate animal use, autoclaves, and x-ray machinery.

Public health challenges often require interdisciplinary collaboration and partnerships with other academic departments, healthcare institutions, and community organizations. A renovated building would facilitate collaboration by incorporating larger laboratories and research facilities, shared spaces, conference rooms, and collaborative work areas that encourage interdisciplinary interactions. These spaces would foster synergistic collaborations, enabling the School to address complex public health issues more effectively.

Community Engagement: The newly renovated building can serve as a hub for community outreach and engagement, allowing the institution to fulfill its commitment to public health advocacy and service. Public health challenges often require interdisciplinary collaboration and partnerships with other academic departments, healthcare institutions, and community organizations. A modern building would facilitate collaboration by incorporating state-of-the-art laboratories and research facilities, shared spaces, conference rooms, and collaborative work areas that encourage interdisciplinary interactions. These spaces would foster synergistic collaborations, enabling the school to address complex public health issues more effectively.

Sustainability Initiatives: Modern buildings often incorporate sustainability features, aligning with the institution's commitment to environmental responsibility and providing opportunities for research in sustainable practices. As the university moves toward a more sustainable future with more efficient buildings, the opportunity to build a LEED-certified building is an important part of that effort. A more energy-efficient building would result in cost savings for the university.

3. Is the requested project focused on a single, stand-alone facility? If no, please explain.

This proposed project would strategically renovate the SPH complex, made of the interconnected SPH I and SPH II buildings. Location of a potential addition would be attached to this complex, unless the study indicates this is not feasible or cost-effective.

4. How does the project support investment in or adaptive re-purposing of existing facilities and infrastructure?

A renovation to the SPH II portion of the complex can indirectly support investment in or adaptive repurposing of existing facilities and infrastructure by optimizing resources, increasing efficiency, and better aligning the School's facilities with its programmatic needs.

Efficiency Improvements: Renewed infrastructure of the SPH II portion of the facility will improve energy efficiency, reducing the overall utility costs, and those savings, in turn, can be reinvested into updating and repurposing older facilities for the University.

Technological Integration: The renovated building will have advanced technology infrastructure. Integrating new technologies into buildings can free up space and resources in older facilities, making them more adaptable for different uses.

Shared Resources: The renovated building can offer shared resources like state-of-the-art research classrooms, meeting spaces, or labs, reducing the need for duplicative infrastructure in existing facilities.

Increased Enrollment: If a building helps attract more students or researchers, it can generate revenue that can be reinvested into campus improvements and repurposing efforts.

5. Does the project address or mitigate any current health/safety deficiencies relative to existing facilities? If yes, please explain.

A renovation to the SPH II portion can address health and safety deficiencies by integrating modern design principles and technologies that prioritize the well-being of occupants and

reduce health risks. These measures can enhance the educational experience while promoting a healthier environment for learning and working.

HVAC and Digital Controls: SPH II portion of the complex primarily utilizes pneumatic controls, which lack the capability for remote monitoring and control. The building has a vivarium and wet labs, so upgrading the system to digital controls will allow remote monitoring to identify problems with HVAC systems which is critical to safety of the animals and the building occupants. Because pneumatic controls rely on air pressure and mechanical components it has led to imprecise control of temperature and airflow. This lack of precision has led to temperature fluctuations and less efficient HVAC operation. Installing modern HVAC systems will improve air quality, ensuring proper ventilation and filtration to mitigate the spread of airborne contaminants and pathogens which is critical in a lab environment.

Enhanced Sanitation: Existing restrooms do not have touchless fixtures – upgrading restroom facilities can reduce the risk of disease transmission. Additionally, the inclusion of hand sanitizing stations throughout the building can promote hand hygiene.

Access Control: Implementing secure, centralized access control systems can help regulate entry and exit points, particularly in its lab environment, enabling contactless access while enhancing security. Currently, most secure building areas have battery-powered electronic keypad and card swipe locks. These locks are vulnerable to hacking, have the potential to malfunction, and rely on batteries for power, which can lead to lockouts if they fail. For keypad locks, codes can be disclosed unintentionally or viewed when entering a space making it less secure. Programming is a manual process, and each request for card swipe access requires a staff member to program access with a handheld computer at the door.

Materials Selection: Choosing materials that are easy to clean and maintain can contribute to a healthier environment.

Emergency Preparedness: Ensuring the SPH II side of the complex is equipped with the latest safety systems, such as fire suppression and emergency evacuation plans, is essential.

Sustainability: Designing the project with sustainability as a primary consideration can also have health benefits, as green building practices often lead to improved indoor air quality and reduced environmental impacts.

The entire SPH II portion of the complex has asbestos floor tile and due to its age is easily damaged. Crumbling floor tiles can release asbestos fibers which can be a hazard to building occupants. Any damaged areas or flooring upgrades requires a certified asbestos abatement contractor for removal which is very costly and often requires temporary evacuation and sealing off areas of the building, disrupting occupancy and daily activities.

A potential expansion would further allow U-M to build an even safer, more efficient, and more accessible building that is best achieved through new construction.

6. How does the institution measure utilization of its existing facilities, and how does it compare relative to established benchmarks for educational facilities? How does the project help to improve the utilization of existing space and infrastructure, or conversely how does current utilization support the need for additional space and infrastructure?

With buildings varying in size, design, infrastructure and age, the university considers utilization of existing facilities primarily on a case-by-case, project-by-project basis. With that said, there are university-wide metrics that let us compare space utilization across the academic units. In particular, indirect cost recovery (ICR) per net area square foot (NASF) of research space and overall square footage per FTE (faculty and staff) show the school’s space utilization (density of SPH space) well above the university's average.

	SPH	U-M Min	U-M Median	U-M Avg	U-M Max
NASF/FTE	375	306.7	557.9	522.5	1122.6
ICR/NASF	147.87	.22	21.27	33.92	147.87

Based on this information and the school's current FTE, to reach U-M's average square footage per FTE, SPH would need another 83,000 NASF just to be on par with other U-M units. This means SPH is well beyond capacity in terms of research space. This severely constrains the school’s ability to grow research and discovery, attract more grants and funding, and retain faculty and researchers.

Current U-M guidelines for class and classroom scheduling also ensure that SPH classrooms and all campus classrooms are effectively used. We have goals for target schedule distribution to ensure classes are scheduled evenly throughout the day and week and therefore alleviate artificial pressure on classroom spaces just during peak times. We also monitor seat utilization to ensure best fit of enrollments to rooms. Additionally, we have a central scheduling model to support broad classroom sharing to ensure the highest and best use of rooms across campus.

The classroom deficiencies noted for the School of Public Health are not a result of ineffective scheduling or poor utilization. They simply do not meet the needs for modern teaching and team-based learning, and the university is intentionally trying to construct these types of classroom spaces, as they are in high demand and needed across campus.

7. How does the institution intend to integrate sustainable design principles to enhance the efficiency and operations of the facility?

The university has a long history of environmental stewardship in its facility design and construction approach. In 2021, we formally and publicly committed to placing carbon neutrality at the center of our mission. As a public research university, we are compelled to apply and share our knowledge, expertise, and resources to address the global climate crisis and be a

leader and model for others. Part of this commitment relates directly to capital projects, so we have the following project requirements in place that will apply to the proposed SPH project:

- All major projects (new construction and renovation) are designed to meet program needs while reducing demolition waste and the environmental impact of producing and transporting new materials.
- All major projects (new construction and renovation) are designed to incorporate water conservation measures that, in aggregate use a minimum of 20% less water than a baseline water based on the Michigan Plumbing Code.
- All major projects (new construction and renovation) are designed to exceed building code requirements for energy efficiency by a minimum of 20% and to meet the university's target for operational carbon reduction. The university follows a rigorous energy efficiency evaluation process that requires incorporating numerous mandatory energy efficiency measures on projects, comprehensive evaluation of additional energy efficiency measures, and comprehensive modeling of energy usage and development of energy impact statements at each design phase.
- All major projects (new construction and renovation) are required to complete a life cycle analysis of the building's estimated carbon consumption to demonstrate that the project meets the university's established target for maximum GHG emissions per square foot.
- Designing the mechanical system components for conversion in the future to low-to-medium hot water heating, as the university anticipates moving toward implementing regional geothermal plants as part of an overall carbon reduction plan.
- All major projects (new construction and renovation) follow the "integrative design process" and are subject to a sustainability review process to help guide the design from a sustainable practices standpoint. At the conclusion of schematic design, the architect is required to develop a preliminary Leadership in Energy and Environmental Design (LEED) scorecard for the project, using accredited personnel, as a measure of the project's overall sustainability performance, and the scorecards are updated at the end of design development and construction documents. The LEED scorecards serve as a measurement and reporting tool for the project's overall sustainability features.

8. Are match resources currently available for the project? If yes, what is the source of the match resources? If no, identify the intended source and the estimated timeline for securing said resources.

The university has preliminarily identified matching funds from an internal central funding source that was established in fiscal year 2011 to address the growing need for major renovations in aging General Fund buildings. Additional funding will be provided by fundraising and SPH reserves.

The university is in the process of establishing a 5- and 10-year capital plan as part of our Campus Plan 2050 endeavor. Projects in this timeframe are also being evaluated and prioritized more holistically in terms of their priority and mission alignment and their needs for resources to

support them. We expect that in the next year, when the findings and recommendations of Campus Plan 2050 are released, we will have a better understanding of additional funding sources that could contribute to this specific project.

9. If authorized for construction, the state typically provides a maximum of 75% of the total cost for university projects and 50% of the total cost for community college projects. Does the institution intend to commit additional resources that would reduce the state share from the amounts indicated? If so, by what amount?

Although the current state authorization anticipates a maximum state contribution of 75 percent toward the total cost of a project, we are very open to funding more than 25 percent, as we did with our most recent Computer Science and Engineering and School of Information expansion – per Public Act 257 of 2020 enabling construction authorization.

10. Will the completed project increase operating costs to the institution? If yes, please provide an estimated cost (annually, and over a five-year period) and indicate whether the institution has identified available funds to support the additional cost.

We do not expect the renovation of SPH complex to increase annual operating costs of the building. In fact, we expect to achieve savings in the SPH complex by upgrading outdated mechanical systems to be more efficient.

At such time that additional square footage may be added via an addition, SPH would have sufficient revenue from increased research-driven indirect cost recovery and increased tuition revenue, both resulting from expanded activities allowed by the increased square footage.

The U-M budget model additionally requires our schools to individually manage their incomes, sources, and uses, and there are several layers of accountability and oversight to ensure that any operational increases are offset in ways that do not impact tuition.

11. What impact, if any, will the project have on tuition costs?

The project will have no impact on future tuition costs.

12. If this project is not authorized, what are the impacts to the institution and its students?

A key goal for the school is to enhance the school's and the university's academic mission by building space that supports faculty excellence and student success through world-class

teaching and learning environments. SPH facilities must accommodate larger, more accessible, and flexible classrooms for modern instructional practices, including collaborative technology. Space for student services, including study space, group work, and student meeting and gathering space to support this part of campus and the SPH community is a significant need, and would be addressed by this project. The school is in urgent need of instructional space for its revised MPH core that requires flexible classrooms for team-based learning, which would be a critical component of the project. Of significant importance, the project would address significant accessibility issues.

This project would both improve existing faculty and student wet lab research space and improve the school's ability to recruit new faculty. The School is regarded as a premier program nationally, with fierce competition among peers such as Johns Hopkins University, Harvard University, University of North Carolina – Chapel Hill, Emory University, Columbia University, and University of Washington. This project, as a component of an overall physical plan for SPH, would be instrumental in improving U-M SPH's competitiveness in recruiting and retaining exceptional faculty and the world's best students.

Reputationally, SPH will only be able to maintain (or elevate) its ranking as a top school of public health with improved facilities. The state of lab space impacts current faculty, and the lack of modern facilities has hindered the School's recruitment efforts. SPH has a rich history of developing junior faculty into stars in their respective fields. The School continues to face significant challenges in retaining these individuals, and its antiquated space is an oft-cited reason why faculty leave. Making a case for students and faculty to come to U-M when they have offers from schools with newer and more modern facilities is increasingly difficult.

13. What alternatives to this project were considered? Why is the requested project preferable to those alternatives?

There is currently no alternative option for the School of Public Health. The educational mission and research enterprise are already impacted by the lack of space and access to modern facilities and technology. Piecemeal, single-floor renovations to the older 1971 complex have been explored but are not possible due to the end-of-life mechanical systems, column-intense layouts, and cinder block construction of all rooms. Addressing this facility requires a one-time investment in SPH II. Poised for growth in enrollment and public health research, the School of Public Health and U-M need to take a comprehensive and long-term approach to addressing the complex and SPH's needs for decades to come.

Appendix A: Staffing and Enrollment Data

University of Michigan – Ann Arbor

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	31,266	31,329	32,282	32,695	33,730
Graduate	13,861	13,862	15,219	15,759	15,606
Professional	2,963	2,716	2,777	2,771	2,729
Total	48,090	47,907	50,278	51,225	52,065

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	30,031	31,177	31,422	31,710	32,428
Graduate	14,745	14,932	14,999	16,258	16,144
Professional	3,046	3,145	3,169	3,305	3,291
Total	47,822	49,254	49,590	51,272	51,863

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts (Includes non-School/College units and Hospital)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	5,545.5	5,620.9	5,673.9	5,682.7	5,829.0
Primary Faculty *	944.3	939.7	891.4	910.4	925.3
Supplemental *	4,377.7	4,482.3	4,388.2	4,425.3	4,466.6
Staff	33,360.3	34,363.8	33,592.0	33,995.4	35,201.6
Total	44,227.8	45,406.7	44,545.6	45,013.8	46,422.5

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student employees, and other Supplemental

Research Grants and Contracts (\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Schools & Colleges	1,025,425	1,087,617	1,097,933	1,197,457	1,300,815
Hospital, Acad., & Resrch. Units	176,486	282,407	337,254	211,510	252,493
Total	1,201,911	1,370,024	1,435,187	1,408,967	1,553,308

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Student to Faculty Ratio

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
15:1	14:1	15:1	15:1	<i>Avail. Jan 2024</i>

Source: Common Data Set

Totals may not appear to equal sum of components due to rounding.

A. Alfred Taubman College of Architecture and Urban Planning

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	184	177	208	232	322
Graduate	479	403	436	454	415
Professional	--	--	--	--	--
Total	663	580	644	686	737

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	212	203	190	217	226
Graduate	617	566	507	582	579
Professional	--	--	--	--	--
Total	829	769	697	798	805

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	90.3	85.1	73.6	78.5	79.3
Primary Faculty *	0.0	0.0	0.0	0.0	0.0
Supplemental *	13.8	15.7	13.5	17.7	19.7
Staff	46.8	45.4	47.9	50.8	66.1
Total	150.9	146.2	135.0	147.0	165.1

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
1,654	1,500	1,371	71	390

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
18	17	18	18	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Penny W. Stamps School of Art and Design

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	603	616	686	682	726
Undergraduate Joint Program	9	17	14	12	16
Graduate	20	7	24	19	14
Professional	--	--	--	--	--
Total	632	640	724	713	756

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Note: Art/Music Joint Program count is reported here and with Music/Theater/Dance, but unduplicated in the Summary

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	468	511	485	545	572
Graduate	24	23	18	26	22
Professional	--	--	--	--	--
Total	492	534	503	571	594

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	62.5	62.0	59.8	64.8	70.2
Primary Faculty *	0.0	0.0	0.0	0.0	0.2
Supplemental *	4.6	4.6	3.7	5.2	3.9
Staff	37.7	40.6	43.3	46.5	48.5
Total	104.8	107.1	106.7	116.5	122.8

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	232	252	364	283	152

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	14	14	13	13	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Stephen M. Ross School of Business

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	2,404	2,377	2,421	2,440	2,416
Graduate	1,902	1,788	1,905	1,992	2,017
Professional	--	--	--	--	--
Total	4,306	4,165	4,326	4,432	4,433

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	1,698	1,755	1,681	1,676	1,785
Graduate	2,251	2,211	2,072	2,251	2,285
Professional	--	--	--	--	--
Total	3,949	3,966	3,754	3,927	4,070

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	170.2	169.4	165.4	163.0	158.2
Primary Faculty *	9.0	9.0	8.0	8.0	9.1
Supplemental *	24.7	24.9	22.6	17.6	21.1
Staff	379.6	394.6	377.1	354.2	376.1
Total	583.5	597.9	573.1	542.7	564.5

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts (\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	2,180	2,185	2,027	1,822	1,881

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	54	49	50	53	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Dentistry

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	102	83	74	77	70
Graduate	121	115	110	113	126
Professional	469	471	472	475	474
Total	692	669	656	665	670

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	84	92	102	95	104
Graduate	166	163	159	153	162
Professional	688	695	689	692	694
Total	938	950	949	940	960

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	136.7	141.1	134.9	129.1	136.0
Primary Faculty *	11.5	11.9	8.0	8.4	7.1
Supplemental *	29.0	33.7	23.6	25.6	26.9
Staff	335.6	349.4	328.3	308.6	311.5
Total	512.9	536.1	494.9	471.7	481.4

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
21,292	22,683	24,259	28,224	22,371

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
n/a	n/a	n/a	n/a	n/a

Totals may not appear to equal sum of components due to rounding.

School for Environment and Sustainability

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	--	1	--	--	--
Graduate	358	473	551	553	516
Professional	--	--	--	--	--
Total	358	474	551	553	516

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	226	263	256	267	275
Graduate	281	357	440	492	503
Professional	--	--	--	--	--
Total	507	620	696	759	778

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	52.7	57.7	62.5	59.6	60.9
Primary Faculty *	6.9	10.0	7.9	8.8	9.4
Supplemental *	42.8	55.6	56.5	61.0	67.2
Staff	95.1	99.3	102.5	96.2	104.6
Total	197.5	222.5	229.4	225.6	242.1

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
15,543	17,328	13,488	18,149	22,174

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
23	22	22	23	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Education

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	130	126	114	88	84
Graduate	383	310	377	300	287
Professional	--	--	--	--	--
Total	513	436	491	388	371

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	161	188	181	180	161
Graduate	452	387	402	453	371
Professional	--	--	--	--	--
Total	613	575	583	633	532

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	59.4	60.7	59.8	58.7	62.1
Primary Faculty *	3.0	5.1	5.7	4.8	6.0
Supplemental *	35.4	41.5	41.3	35.0	28.6
Staff	92.3	91.2	89.5	100.4	105.0
Total	190.1	198.5	196.3	198.9	201.6

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
8,892	7,767	12,040	9,336	9,020

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
11	12	12	11	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

College of Engineering

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	6,648	6,841	6,931	6,962	7,112
Graduate	3,537	3,368	3,724	4,089	4,002
Professional	--	--	--	--	--
Total	10,185	10,209	10,655	11,051	11,114

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	5,427	5,692	5,842	5,927	6,163
Graduate	3,130	3,115	3,099	3,434	3,413
Professional	--	--	--	--	--
Total	8,557	8,807	8,942	9,360	9,576

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	471.1	470.1	479.7	479.4	503.8
Primary Faculty *	113.0	112.4	102.9	103.4	108.0
Supplemental *	858.9	877.2	869.5	866.4	884.1
Staff	735.9	771.9	786.2	816.2	895.4
Total	2,178.8	2,231.6	2,238.2	2,265.4	2,391.2

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	231,389	236,904	232,883	241,387	320,311

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	36	36	36	38	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Information

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	322	295	353	380	446
Graduate	725	986	1,263	1,347	1,314
Graduate Joint Program	86	74	75	76	88
Professional	--	--	--	--	--
Total	1,133	1,355	1,691	1,803	1,848

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Note: Information/Public Health Joint Program count is reported here and with Public Health, but unduplicated in the Su

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	415	447	447	430	543
Graduate	494	658	950	1,073	1,119
Professional	--	--	--	--	--
Total	909	1,105	1,397	1,504	1,662

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	50.6	55.2	63.8	66.2	75.9
Primary Faculty *	2.2	1.5	0.9	0.1	2.5
Supplemental *	66.6	80.4	67.8	80.7	94.7
Staff	66.6	76.9	80.9	86.2	86.1
Total	185.9	213.9	213.4	233.2	259.2

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
5,819	6,498	5,339	7,097	8,451

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
30	31	36	37	Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Kinesiology

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	997	1,003	1,066	1,098	1,177
Graduate	118	93	120	130	135
Professional	--	--	--	--	--
Total	1,115	1,096	1,186	1,228	1,312

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	597	618	605	625	725
Graduate	80	92	69	115	108
Professional	--	--	--	--	--
Total	677	710	674	740	833

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	44.9	47.1	47.9	48.8	51.7
Primary Faculty *	0.8	0.0	0.0	0.0	0.0
Supplemental *	20.1	16.7	15.5	15.3	15.6
Staff	50.3	52.8	52.4	55.8	68.5
Total	116.1	116.6	115.9	119.9	135.8

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	8,612	9,089	7,581	6,235	8,669

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	22	23	22	25	25

Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Law School

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	--	--	--	--	--
Graduate	34	22	35	28	38
Professional	1,017	1,005	963	979	1,017
Total	1,051	1,027	998	1,007	1,055

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	--	--	--	--	--
Graduate	15	22	16	12	16
Professional	1,015	1,012	1,022	994	1,002
Total	1,030	1,034	1,038	1,006	1,018

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	85.3	89.3	86.8	87.8	104.0
Primary Faculty *	10.0	10.0	9.0	10.0	11.0
Supplemental *	10.3	10.3	9.0	10.0	9.0
Staff	151.6	149.9	148.6	140.3	145.1
Total	257.2	259.5	253.3	248.1	269.2

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	406	331	861	1,065	459

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	23	23	23	23	23

23 Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

College of Literature, Science, and the Arts

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	17,837	17,796	18,322	18,656	19,248
Graduate	2,751	2,656	2,697	2,728	2,724
Professional	--	--	--	--	--
Total	20,588	20,452	21,019	21,384	21,972

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	18,691	19,208	19,470	19,457	19,572
Graduate	3,118	3,199	3,109	3,151	3,072
Professional	--	--	--	--	--
Total	21,809	22,407	22,579	22,607	22,644

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	1,319.2	1,332.5	1,352.5	1,366.7	1,366.0
Primary Faculty *	40.7	44.0	44.9	37.1	42.6
Supplemental *	1,017.8	1,023.7	1,040.4	1,020.9	1,021.4
Staff	1,148.3	1,201.4	1,180.1	1,180.0	1,204.9
Total	3,526.0	3,601.6	3,617.9	3,604.7	3,634.9

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
91,978	89,225	101,112	106,223	105,136

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
28	28	29	29	29 Avail. Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Medical School

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	25	34	36	26	21
Graduate	736	750	810	789	847
Professional	929	714	791	797	809
Total	1,690	1,498	1,637	1,612	1,677

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	250	251	280	285	299
Graduate	841	878	935	995	992
Professional	801	870	879	1,017	1,008
Total	1,892	1,999	2,095	2,298	2,299

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	2,334.9	2,383.8	2,393.2	2,391.3	2,441.5
Primary Faculty *	373.3	359.4	341.6	349.6	366.6
Supplemental *	684.0	700.7	653.5	646.6	652.2
Staff	3,855.2	4,023.1	3,862.9	3,952.2	4,117.7
Total	7,247.4	7,467.0	7,251.1	7,339.8	7,577.9

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	561,613	562,382	565,196	639,234	653,896

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	n/a	n/a	n/a	n/a	n/a

Totals may not appear to equal sum of components due to rounding.

School of Music, Theatre and Dance

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	834	837	869	851	851
Undergraduate Joint Program	9	7	14	12	16
Graduate	292	266	294	294	283
Professional	--	--	--	--	--
Total	1,135	1,110	1,177	1,157	1,150

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Note: Art/Music Joint Program count is reported here and with Art, but unduplicated in the Summary.

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	884	949	850	933	937
Graduate	407	391	339	381	383
Professional	--	--	--	--	--
Total	1,291	1,340	1,190	1,314	1,320

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	170.5	169.7	174.1	169.9	181.1
Primary Faculty *	0.0	0.0	0.0	0.1	0.0
Supplemental *	32.4	33.5	34.4	34.3	37.9
Staff	97.4	94.4	87.8	103.7	120.3
Total	300.3	297.6	296.2	308.0	339.3

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
156	115	176	456	256

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
16	14	16	16	16 <i>table Jan 2024</i>

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Nursing

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	642	678	713	714	750
Graduate	251	295	334	316	293
Professional	146	154	171	159	140
Total	1,039	1,127	1,218	1,189	1,183

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	523	576	597	610	618
Graduate	197	195	232	263	225
Professional	157	187	204	231	223
Total	877	958	1,032	1,103	1,066

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	105.8	104.5	106.9	102.6	99.5
Primary Faculty *	5.3	4.4	5.4	4.1	4.1
Supplemental *	2.3	5.3	3.5	5.3	3.0
Staff	125.1	139.5	133.3	117.2	109.8
Total	238.5	253.6	249.1	229.1	216.5

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
11,864	11,413	10,867	10,245	10,852

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
12	12	12	13	Avail Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

College of Pharmacy

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	74	91	104	102	102
Graduate	85	93	111	124	132
Professional	340	332	331	322	327
Total	499	516	546	548	561

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	29	37	37	42	41
Graduate	120	100	125	138	143
Professional	385	381	376	371	365
Total	534	518	538	551	549

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	46.4	43.1	41.4	42.8	41.7
Primary Faculty *	20.1	23.1	16.8	15.0	13.1
Supplemental *	66.8	67.1	52.6	48.4	50.3
Staff	75.0	74.7	78.1	81.6	81.0
Total	208.4	208.0	188.8	187.8	186.0

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
16,718	15,288	16,332	18,569	23,997

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
40	45	41	40	Avail Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Public Health

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	170	204	207	213	225
Graduate	960	903	1,072	1,067	937
Graduate Joint Program	86	74	75	76	88
Professional	--	--	--	--	--
Total	1,216	1,181	1,354	1,356	1,250

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Note: Information/Public Health Joint Program count is reported here and with Information, but unduplicated in the Sum

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	204	214	219	224	213
Graduate	1,181	1,148	1,089	1,241	1,240
Professional	--	--	--	--	--
Total	1,385	1,362	1,308	1,464	1,453

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	137.3	139.5	135.9	130.5	130.0
Primary Faculty *	35.4	33.4	27.1	30.1	27.3
Supplemental *	112.7	124.4	113.4	136.1	125.6
Staff	338.0	371.6	373.8	401.0	433.0
Total	623.3	668.9	650.2	697.6	715.9

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
82,064	95,982	95,271	101,165	101,759

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
34	28	35	36	<i>Avail Jan 2024</i>

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Gerald R. Ford School of Public Policy

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	161	163	164	162	164
Graduate	215	206	219	230	198
Professional	--	--	--	--	--
Total	376	369	383	392	362

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	110	119	126	141	141
Graduate	244	267	247	257	249
Professional	--	--	--	--	--
Total	354	386	372	398	390

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	39.1	40.5	40.7	40.4	39.2
Primary Faculty *	0.0	0.0	0.0	0.1	0.5
Supplemental *	9.5	9.1	11.2	14.6	10.9
Staff	55.1	68.4	72.1	69.3	74.1
Total	103.7	117.9	124.0	124.4	124.6

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
	5,411	3,981	4,114	2,500	4,057

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	32	31	33	32	Avail Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Horace H. Rackham School of Graduate Studies

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	--	--	--	--	--
Graduate	303	333	328	327	300
Professional	--	--	--	--	--
Total	303	333	328	327	300

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Note: In 2019, several programs previously listed under Rackham were assigned to other schools.

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	--	--	--	--	--
Graduate	99	94	78	86	71
Professional	--	--	--	--	--
Total	99	94	78	86	71

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	0.5	0.5	0.5	0.5	0.7
Primary Faculty *	0.0	0.0	0.0	0.0	0.0
Supplemental *	17.1	20.3	17.3	26.3	27.8
Staff	100.4	105.2	98.7	100.3	108.7
Total	118.0	125.9	116.4	127.1	137.1

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student emp

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
98	161	142	211	175

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
11	8	17	7	Avail Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

School of Social Work

Fall Term Headcount Enrollment by Level

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Undergraduate	--	--	--	--	--
Graduate	726	751	783	892	940
Professional	--	--	--	--	--
Total	726	751	783	892	940

Source: Dashboard 04. Student Enrollment | Enrollment Trends

Fiscal Year Equated Students

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Undergraduate	30	31	35	38	33
Graduate	1,026	1,065	1,081	1,119	1,140
Professional	--	--	--	--	--
Total	1,056	1,096	1,115	1,157	1,173

Source: Dashboard 05. Student Credit Hours | Student Credit Hours and FYES Crosstabs

FTE Faculty and Staff Counts

	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
Instructional Faculty	73.2	75.7	78.0	78.2	80.9
Primary Faculty *	2.9	2.5	1.6	1.8	1.3
Supplemental *	17.3	20.8	13.8	12.0	8.5
Staff	78.6	78.0	80.6	84.7	89.1
Total	172.0	176.9	173.9	176.7	179.8

Source: Dashboard 02. Faculty and Staff | FTE Distribution by Funding Source

* Primary includes Regular and Supplemental Primary; Supplemental includes Research Fellows, House Officers, Graduate Student em

Research Grants and Contracts

(\$000)

<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>
4,195	4,533	4,510	5,187	6,809

Source: U-M Financial Data Warehouse (totals as of October following fiscal year)

Fall Term Weighted Average Class Size

<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
20	21	20	20	Avail Jan 2024

Source: Dashboard 06. Student Class Size | Class Size - Weighted Average

Totals may not appear to equal sum of components due to rounding.

Appendix B: Deferred Maintenance Data

The university maintains a building database including size and use. Deferred maintenance estimates are included here when the information is available. This information allows comparisons of buildings and trends over time with respect to overall condition. Deferred maintenance information is continually updated and where possible includes detailed needs and specific cost estimates to implement projects. The summary information provided here is a planning tool. It is not intended to accurately reflect all costs listed and should not be used for cost estimates. This list does not include properties outside of Ann Arbor, such as Sparrow Health System, University of Michigan Health-West and the Biological Station.

*Denotes building is in planning or under construction.

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1005200	1009 CORNWELL PLACE	1886	3,340	Income Properties	
1008039	1011 CORNWELL PLACE	1951	2,879	Income Properties	
1000327	1018 FULLER BUILDING	1965	8,349	Clinical Delivery System	
1000816	1032 GREENE BUILDING	1975	5,903	Administration & Support	\$1,426,014.72
1000188	1100 NORTH UNIVERSITY BUILDING	1925	187,416	Teach, Research, Support	\$12,706,302.43
1000886	1443 WASHTENAW AVENUE BUILDING	1943	13,799	Student Services	\$1,199,706.68
1000891	1736 BROADWAY GARAGE	1965	480	Income Properties	
1000885	1736 BROADWAY HOUSE	1965	2,970	Income Properties	
1005179	202 SOUTH THAYER BUILDING	2006	59,825	Teach, Research, Support	\$579,069.18
1000335	300 400 N INGALLS BOILER HSE	1955	9,908	Administration & Support	\$2,124,417.87
1000332	300 N INGALLS BUILDING	1955	325,677	TeachResSupport/CDS	\$60,591,301.87
1005327	439 S DIVISION STREET	1900	3,210	Income Properties	
1005287	523 SOUTH DIVISION BUILDING	2010	9,315	Administration & Support	\$150,000.00
1000815	ADMINISTRATIVE SERVICES	1963	91,653	Administration & Support	\$11,138,328.73
1000423	AERO ENG LAB PUMPING STATION	1955	2,456	Teach, Research, Support	\$77,402.03
1000426	AERO ENG POWER PLANT	1955	697	Teach, Research, Support	\$1,542.29
1000425	AEROSPACE ENGINEERING LAB PLASMA RESEARCH	1961	25,941	Teach, Research, Support	\$1,097,373.01
1000422	AEROSPACE ENGINEERING LAB PROPULSION LAB	1955	8,067	Teach, Research, Support	\$4,361,183.99
1000421	AEROSPACE ENGINEERING LAB WIND TUNNEL LAB	1955	14,171	Teach, Research, Support	\$3,020,197.19
1000192	ALUMNI CENTER	1983	35,315	Administration & Support	\$1,775,036.41
1005123	ALUMNI FIELD AT CAROL HUTCHINS STADIUM	2008	12,209	Intercollegiate Athletics Bldg	
1000151	ALUMNI MEMORIAL HALL	1910	99,304	Teach, Research, Support	\$4,162,972.94
1000206	ANGELL HALL AUDITORIUMS	1952	29,293	Teach, Research, Support	\$2,406,475.83
1000152	ANGELL JAMES B HALL AND TISCH HALL	1924	209,256	Teach, Research, Support	\$6,955,239.34
1000168	ANIMAL RESEARCH FACILITY	1963	15,591	Teach, Research, Support	\$3,615,414.51
1005132	ANN STREET PARKING STRUCTURE	2009	189,202	Parking Structure	
1008079	ARBOR LAKES 1	1976	39,867	AdminSupport/CDS	\$4,541,322.51
1008080	ARBOR LAKES 2	1979	89,277	AdminSupport/CDS	\$11,473,037.67
1008081	ARBOR LAKES 3	1981	84,893	AdminSupport/CDS	\$12,439,842.88

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000831	ARGUS BUILDING II	1941	69,214	Teach, Research, Support	\$9,413,773.75
1000432	ART ARCHITECTURE BUILDING	1974	264,419	Teach, Research, Support	\$7,408,545.05
1005371	ATHLETIC DEPARTMENT OPERATIONS CENTER	2015	18,674	Intercollegiate Athletics Bldg	
1005402	ATHLETICS FACILITY SUPPORT BUILDING	2015	2,976	Intercollegiate Athletics Bldg	
1005195	ATHLETICS MAINTENANCE BUILDING	1985	1,473	Intercollegiate Athletics Bldg	
1005168	AUTO LAB FUEL STORAGE BUILDING	2005	427	Teach, Research, Support	\$31,617.00
1002501	AUXILIARY SERVICES BUILDING 1	1968	80,622	Administration & Support	\$12,659,514.81
1000395	BAGNOUD FRANCOIS-XAVIER BUILDING	1991	101,812	Teach, Research, Support	\$8,273,597.39
1005236	BAHNA WRESTLING CENTER	2009	22,072	Intercollegiate Athletics Bldg	
1000510	BAITS VERA I EATON HOUSE	1966	36,148	Resident Hall	\$66,662,283.41
1000511	BAITS VERA I LEE HOUSE	1966	33,017	Resident Hall	
1000512	BAITS VERA I PARKER HOUSE	1966	34,411	Resident Hall	
1000513	BAITS VERA I SMITH HOUSE	1966	29,190	Resident Hall	
1000514	BAITS VERA I STANLEY HOUSE	1966	32,600	Resident Hall	\$1,600.00
1000515	BAITS VERA II COMAN HOUSE	1967	48,603	Resident Hall	\$32,149,118.75
1000516	BAITS VERA II CONGER HOUSE	1967	26,929	Resident Hall	\$12,800.00
1000517	BAITS VERA II CROSS HOUSE	1967	35,118	Resident Hall	
1000518	BAITS VERA II THIEME HOUSE	1967	25,219	Resident Hall	
1000519	BAITS VERA II ZIWET HOUSE	1967	33,931	Resident Hall	
1000051	BARBOUR BETSY HOUSE	1920	33,925	Resident Hall	\$13,090,845.69
1005290	BAXTER ROAD MONITORING SHED	2010	49	Administration & Support	
1000439	BENTLEY ALVIN M & ARVELLA D HISTORICAL LIBRARY	1973	66,537	Library Building	\$5,877,062.95
1005092	BEYSTER BOB AND BETTY BUILDING	2006	104,132	Teach, Research, Support	\$1,420,959.62
1005169	BIOLOGICAL SCIENCES BUILDING	2018	312,211	Teach, Research, Support	\$0.00
1005370	BLAU JEFF T HALL	2016	106,172	Teach, Research, Support	\$2,290,922.40
1000402	BONISTEEL INTERDISCIPLINARY RESEARCH BUILDING	1954	21,993	Teach, Research, Support	\$2,792,462.40
1000880	BOYER BUILDING	1969	15,472	Administration & Support	\$1,249,920.16
1005102	BREHM TOWER	2009	252,234	TeachResSupport/CDS	\$17,967.70
1008076	BRIARWOOD 1	1993	17,857	Clinical Delivery System	\$2,441,066.75
1008130	BRIARWOOD 10	1996	17,299	Clinical Delivery System	\$234,424.10
1008030	BRIARWOOD 2	1988	15,924	Clinical Delivery System	\$464,211.55
1008065	BRIARWOOD 3	1991	10,262	Clinical Delivery System	\$330,009.41
1008042	BRIARWOOD 4	1991	14,063	Clinical Delivery System	
1008016	BRIARWOOD 5	1986	9,378	Clinical Delivery System	\$120,349.76
1008142	BRIARWOOD 9	1998	5,324	Clinical Delivery System	\$507,933.16
1000407	BROWN GEORGE GRANGER MEMORIAL LABORATORIES	1957	290,501	Teach, Research, Support	\$1,853,628.76
1000210	BUHL LAWRENCE D RESEARCH CEN FOR HUMAN GENETICS	1964	18,971	Teach, Research, Support	\$427,147.30
1000799	BUHR BUILDING	1952	187,245	Administration & Support	\$7,423,499.78

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000010	BURNHAM HOUSE	1837	3,482	Teach, Research, Support	\$804,194.04
1000555	BURSLEY JOSEPH A & MARGUERITE K HALL	1967	341,601	Resident Hall	\$69,726,070.43
1000155	BURTON MEMORIAL TOWER	1936	20,103	Teach, Research, Support	\$4,792,975.17
1000139	BUSINESS ADMIN EXECUTIVE DORM	1985	50,853	Teach, Research, Support	\$7,427,623.66
1000742	CAMPUS SAFETY SERVICES BUILDING	1978	108,241	Administration & Support	\$6,048,729.82
1000718	CANHAM DONALD B NATATORIUM	1988	77,639	Intercollegiate Athletics Bldg	\$56,185.72
1005146	CARDIOVASCULAR CENTER PARKING STRUCTURE	2009	168,596	Parking Structure	
1000258	CATHERINE ST PARKING STRUCTURE	1959	140,168	Parking Structure	
1005451	CENTRAL CAMPUS CLASSROOM BUILDING	2022	108,758	Teach, Research, Support	\$1,718,191.80
1005379	CENTRAL CAMPUS SUPPORT FACILITY	2014	88	Administration & Support	
1000260	CENTRAL POWER PLANT	1914	123,112	Administration & Support	\$54,871,871.30
1000158	CHEMISTRY & DOW WILLARD H LABORATORY	1909	544,628	Teach, Research, Support	\$28,503,477.54
1000443	CHRYSLER CENTER CONTINUING ENGINEERING EDUCATION	1968	45,310	Teach, Research, Support	\$2,843,937.01
1000257	CHURCH ST PARKING STRUCTURE	1957	228,214	Parking Structure	\$4,114,455.54
1000159	CLEMENTS WILLIAM L LIBRARY	1923	27,257	Library Building	\$302,950.36
1000441	CLIMATE AND SPACE RESEARCH BUILDING	1965	105,521	Teach, Research, Support	\$14,758,945.15
1005036	COLEMAN MARY SUE HALL	2003	298,399	Teach, Research, Support	\$3,912,210.16
1000710	COLISEUM	1926	38,404	Recreational Sports Building	\$2,206,104.90
1000230	COLLEGE OF PHARMACY BUILDING	1960	56,772	Teach, Research, Support	\$5,391,709.58
1000109	COOK JOHN P BUILDING	1930	63,906	Resident Hall	
1000052	COOK MARTHA BUILDING	1915	71,974	Resident Hall	\$19,293,131.24
1000184	COOK WILLIAM W LEGAL RESEARCH LIBRARY	1931	212,255	Library Building	\$14,486,464.03
1000403	COOLEY MORTIMER E BUILDING	1953	45,717	Teach, Research, Support	\$6,603,685.65
1000053	COUZENS HALL	1925	185,523	Resident Hall	\$2,091,364.73
1000498	CRAM PLACE COMMUNITY CENTER	1958	7,298	Residence	\$37,699,679.35
1000700	CRISLER CENTER	1968	265,276	Intercollegiate Athletics Bldg	\$5,081,972.86
1000189	DANA SAMUEL TRASK BUILDING	1904	117,139	Teach, Research, Support	\$1,082,109.56
1005439	DANCE BUILDING	2020	30,426	Teach, Research, Support	\$0.00
1005289	DAVIDSON WILLIAM PLAYER DEVELOPMENT CENTER	2011	70,705	Intercollegiate Athletics Bldg	
1005491	DEAN ROAD TRANSPORTATION FACILITY	2022	73,995	Administration & Support	\$0.00
1000447	DOW HERBERT H BUILDING	1983	154,419	Teach, Research, Support	\$12,863,946.63
1000396	DUDERSTADT JAMES AND ANNE CENTER	1996	240,256	Teach, Research, Support	\$12,489,290.40
1005038	EAST ANN ARBOR AMBULATORY SURGICAL CENTER	2006	49,906	Clinical Delivery System	
1000350	EAST ANN ARBOR HEALTH AND GERIATRICS CENTER	1996	97,393	Clinical Delivery System	\$4,669,801.01
1000166	EAST HALL	1923	338,897	Teach, Research, Support	\$15,516,747.23
1000306	EAST HOSPITAL MECHANICAL BLDG	1964	8,182	Clinical Delivery System	\$7,320,873.31
1000054	EAST QUADRANGLE	1940	333,036	Resident Hall	\$11,060,819.80
1000221	EDUCATION SCHOOL OF	1923	215,010	Teach, Research, Support	\$21,310,728.46

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1008072	EISENHOWER CORPORATE PARK WEST	1990	76,726	Clinical Delivery System	\$2,854,786.10
1000728	ELBEL FIELD LOCKER BUILDING	1951	5,943	Recreational Sports Building	\$1,154,499.66
1000448	ELECTRICAL ENGINEERING AND COMPUTER SCIENCE BLD	1986	305,134	Teach, Research, Support	\$19,581,334.90
1000435	ENGINEERING RESEARCH BUILDING 1	1964	36,033	Teach, Research, Support	\$10,157,977.94
1000436	ENGINEERING RESEARCH BUILDING 2	1964	28,332	Teach, Research, Support	\$6,314,619.80
1002505	ENGINEERING RESEARCH SUPPORT BLD	1997	1,432	Teach, Research, Support	
1000414	ENVIRONMENTAL AND WATER RESOURCES ENGINEERING BL	1975	37,129	Teach, Research, Support	\$5,293,988.82
1000269	EQUIPMENT MAINTENANCE SHOP	1914	2,151	Administration & Support	\$74,115.04
1000800	FACILITIES SERVICES BUILDING A	1929	92,981	Administration & Support	\$18,761,552.63
1000801	FACILITIES SERVICES BUILDING B	1929	44,682	Administration & Support	\$10,023,069.95
1000802	FACILITIES SERVICES BUILDING C	1929	37,309	Administration & Support	\$6,429,971.87
1000706	FERRY FIELD PUMP HOUSE	1968	216	Intercollegiate Athletics Bldg	
1005452	FGRL BLDG 1		9,785	Administration & Support	
1005457	FGRL BLDG 20	1968	1,700	Income Properties	
1005454	FGRL BLDG 5		4,886	Administration & Support	
1005358	FIELD HOCKEY STADIUM	2014	2,247	Intercollegiate Athletics Bldg	
1005357	FIELD HOCKEY TEAM CENTER	2014	14,683	Intercollegiate Athletics Bldg	
1005359	FIELD HOCKEY TICKET OFFICE	2014	1,977	Intercollegiate Athletics Bldg	
1005387	FIELD HOCKEY TICKET OFFICE WEST	2014	142	Intercollegiate Athletics Bldg	
1000409	FIRE SERV INSTR RES CENTER	1959	21,528	Teach, Research, Support	\$1,978,961.32
1000733	FISHER RAY BASEBALL STADIUM	1950	30,275	Intercollegiate Athletics Bldg	
1000055	FLETCHER HALL	1923	17,985	Resident Hall	\$10,003,206.49
1000254	FLETCHER ST PARKING STRUCTURE	1968	387,276	Parking Structure	
1005418	FORD MOTOR COMPANY ROBOTICS BUILDING	2020	144,117	Teach, Research, Support	\$0.00
1000234	FRANCIS THOMAS JR PUBLIC HEALTH	1971	171,543	Teach, Research, Support	\$18,448,974.06
1000198	FRANKEL JUDY AND STANLEY DETROIT OBSERVATORY	1854	12,785	Teach, Research, Support	\$1,047,875.16
1005109	FRANKEL SAMUEL AND JEAN CARDIOVASCULAR CENTER	2007	414,392	Clinical Delivery System	
1000810	GAS PAD STORAGE BUILDING	1990	1,442	Administration & Support	
1000437	GERSTACKER CARL A BUILDING	1964	61,387	Teach, Research, Support	\$6,181,559.16
1005507	GINSBERG EDWARD AND ROSALIE BUILDING		*	Teach, Research, Support	
1000331	GLEN AVE PARKING STRUCTURE	1987	332,918	Parking Structure	\$306,682.96
1005121	GLICK AL FIELD HOUSE	2009	107,253	Intercollegiate Athletics Bldg	
1000747	GOLF COURSE COMFORT STATION A	1994	533	Intercollegiate Athletics Bldg	
1000748	GOLF COURSE COMFORT STATION B	1994	467	Intercollegiate Athletics Bldg	
1000741	GOLF COURSE GARAGE	1956	3,585	Intercollegiate Athletics Bldg	
1005100	GOLF COURSE MAINTENANCE BUILDING	2007	5,555	Intercollegiate Athletics Bldg	
1000749	GOLF COURSE PRACTICE RANGE BLDG	1994	720	Intercollegiate Athletics Bldg	
1000739	GOLF COURSE PUMP HOUSE II	1992	336	Intercollegiate Athletics Bldg	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000424	GORGUZE FAMILY LABORATORY	1972	29,155	Teach, Research, Support	\$1,827,482.32
1005445	HADLEY FAMILY RECREATION AND WELL-BEING CENTER		*	Recreational Sports Building	
1000201	HARTWIG MARIE DOROTHY ADMINISTRATION BUILDING	1912	14,649	Intercollegiate Athletics Bldg	\$1,300,081.16
1000185	HATCHER H NORTH GRADUATE LIBRARY	1920	194,942	Library Building	\$11,537,031.12
1000181	HATCHER HARLAN H SOUTH GRADUATE LIBRARY	1970	147,674	Library Building	\$14,091,037.55
1000175	HAVEN HALL	1952	123,488	Teach, Research, Support	\$1,289,460.80
1005511	HAYWARD STREET GEOTHERMAL FACILITY		*	Administration & Support	
1000176	HEALTH SERVICE	1940	79,177	Student Services	\$6,213,919.11
1000057	HENDERSON MARY BARTRON HOUSE	1892	9,329	Resident Hall	\$2,854,614.97
1000177	HILL AUDITORIUM	1913	105,565	Recreational Sports Building	\$9,234,269.00
1000253	HILL ST PARKING STRUCTURE	1970	151,175	Parking Structure	
1000804	HOOVER ANNEX	1929	1,905	Administration & Support	\$106,208.29
1000805	HOOVER AVE HEATING PLANT	1929	7,121	Administration & Support	
1000179	HUTCHINS HALL	1933	119,856	Teach, Research, Support	\$11,518,939.87
1005398	INDOOR TRACK BUILDING	2018	123,539	Intercollegiate Athletics Bldg	
1000703	INDOOR TRAINING CENTER	1974	69,183	Intercollegiate Athletics Bldg	\$3,297,748.57
1000429	INDUSTRIAL AND OPERATIONS ENGINEERING BUILDING	1963	50,214	Teach, Research, Support	\$3,523,305.58
1000145	INSTITUTE FOR SOCIAL RESEARCH	1965	226,082	Teach, Research, Support	\$21,140,737.44
1000814	INSTITUTE OF CONTINUING LEGAL ED	1987	12,592	Teach, Research, Support	\$1,077,564.99
1005247	INTERCOLLEGIATE SOCCER STADIUM	2009	17,382	Intercollegiate Athletics Bldg	
1000719	INTRAMURAL SPORTS BUILDING	1928	108,676	Recreational Sports Building	\$3,835,572.24
1000434	IST GAS STORAGE BUILDING	1964	200	Teach, Research, Support	\$12,338.34
1005235	JEFFRIES HALL	2011	103,128	Teach, Research, Support	\$768,975.61
1005160	JUNGE FAMILY CHAMPIONS CENTER	2006	11,638	Intercollegiate Athletics Bldg	
1005440	KAHN D DAN AND BETTY HEALTH CARE PAVILION		*	Clinical Delivery System	
1000732	KEEN CLIFFORD P ARENA	1956	37,261	Intercollegiate Athletics Bldg	\$3,858,130.37
1000324	KELLOGG W K EYE CENTER	1985	81,670	TeachResSupport/CDS	\$7,250,448.33
1000162	KELLOGG W K FOUNDATION INSTITUTE	1940	426,322	Teach, Research, Support	\$32,676,915.66
1000137	KRESGE HALL	1985	76,731	Teach, Research, Support	\$1,835,932.52
1005395	LACROSSE STADIUM	2018	26,467	Intercollegiate Athletics Bldg	
1005396	LACROSSE TICKET BUILDING	2018	238	Intercollegiate Athletics Bldg	
1000183	LANE HALL	1917	39,993	Teach, Research, Support	\$648,378.39
1000108	LAWYERS CLUB AND MUNGER CHARLES T RESIDENCES	1924	93,805	Resident Hall	\$18,051,384.96
1000400	LAY WALTER E AUTOMOTIVE ENGINEERING LABORATORY	1955	63,286	Teach, Research, Support	\$10,307,735.15
1005504	LEINWEBER COMPUTER SCIENCE AND INFORMATION BLDG		*	Teach, Research, Support	
1000105	LIPSEY STANFORD STUDENT PUBLICATIONS BUILDING	1932	14,829	Recreational Sports Building	\$0.00
1000150	LITERATURE SCIENCE AND THE ARTS	1948	156,119	Teach, Research, Support	\$1,898,058.52
1000059	LLOYD ALICE CROCKER HALL	1949	176,615	Resident Hall	\$1,958,577.02

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000154	LORCH HALL	1928	89,808	Teach, Research, Support	\$10,698,637.32
1000406	LURIE ANN AND ROBERT H BIOMEDICAL ENGINEERING BLD	1957	65,028	Teach, Research, Support	\$2,085,681.90
1000394	LURIE ANN AND ROBERT H TOWER	1996	11,452	Teach, Research, Support	\$1,167,371.67
1000397	LURIE ROBERT H ENGINEERING CTR	1996	53,878	Teach, Research, Support	\$1,408,191.64
1000858	MADISON BUILDING	1883	22,318	Administration & Support	\$630,845.14
1005419	M-AIR	2018	11,235	Teach, Research, Support	
1000060	MARKLEY MARY BUTLER HALL	1959	285,877	Resident Hall	\$58,723,839.04
1000197	MASON HALL	1952	136,044	Teach, Research, Support	\$5,549,042.50
1000976	MATT BOT GDNS HOUSE	1825	3,650	Income Properties	\$14,021.97
1000986	MATTHAEI BOT GDNS ENVIRONMENT	1962	2,762	Teach, Research, Support	\$89,919.06
1000991	MATTHAEI BOT GDNS EXHIB GRN HSE	1966	18,747	Teach, Research, Support	\$9,778,613.95
1000983	MATTHAEI BOT GDNS GREENHOUSE #1	1962	6,197	Teach, Research, Support	\$1,459,387.62
1000984	MATTHAEI BOT GDNS GREENHOUSE #2	1960	6,344	Teach, Research, Support	\$1,358,814.72
1000988	MATTHAEI BOT GDNS GREENHOUSE #3	1960	6,195	Teach, Research, Support	\$1,405,075.70
1000989	MATTHAEI BOT GDNS GREENHOUSE #4	1962	2,819	Teach, Research, Support	\$823,625.02
1000990	MATTHAEI BOT GDNS GREENHOUSE #5	1962	2,817	Teach, Research, Support	\$823,573.99
1000994	MATTHAEI BOT GDNS INSTR SHELTER	1978	168	Teach, Research, Support	
1000979	MATTHAEI BOT GDNS NORTH BARN #1	1880	4,241	Teach, Research, Support	\$24,359.52
1000978	MATTHAEI BOT GDNS NORTH BARN #2	1870	1,212	Teach, Research, Support	\$19,610.44
1000992	MATTHAEI BOT GDNS REPTILE HSE	1969	3,205	Teach, Research, Support	\$63,000.88
1000982	MATTHAEI BOT GDNS RESEARCH-ADMIN	1960	21,811	Teach, Research, Support	\$833,278.13
1000987	MATTHAEI BOT GDNS SCREENHOUSE #1	1962	399	Teach, Research, Support	\$39,821.27
1000980	MATTHAEI BOT GDNS STORAGE BLDG	1975	1,920	Teach, Research, Support	\$53,394.45
1000985	MATTHAEI BOT GDNS SUPT RESIDENCE	1961	2,928	Administration & Support	\$1,033.84
1000981	MATTHAEI BOT GDNS UTILITY-BOILER	1960	12,248	Teach, Research, Support	\$590,594.48
1005381	MCITY	2015	4,463	Teach, Research, Support	
1002502	MCITY AUXILIARY BUILDING	1983	2,893	Administration & Support	\$0.00
1005442	MCITY STORAGE	2019	3,305	Teach, Research, Support	
1000300	MED CTR N ENTRANCE PARKING STRUCTURE	1994	340,052	Parking Structure	
1000315	MEDICAL CENTER DR PARKING STRUCT	1984	684,123	Parking Structure	
1000319	MEDICAL PROFESSIONAL BUILDING	1977	37,298	Clinical Delivery System	\$8,015,886.23
1000190	MEDICAL SCIENCE UNIT I	1958	298,955	Teach, Research, Support	\$48,043,907.00
1000200	MEDICAL SCIENCE UNIT II	1969	333,599	Teach, Research, Support	\$27,455,942.89
1000223	MEDICAL SCIENCES RESEARCH BLDG I	1985	144,713	Teach, Research, Support	\$11,169,564.45
1000213	MEDICAL SCIENCES RESEARCH BLDG II	1989	163,852	Teach, Research, Support	\$14,443,085.42
1000229	MEDICAL SCIENCES RESEARCH BLDG III	1994	217,894	Teach, Research, Support	\$15,229,979.63
1000308	MED-INN	1952	119,437	Clinical Delivery System	\$16,528,212.21
1000191	MICHIGAN LEAGUE	1929	130,518	Teach, Research, Support	\$25,126,419.66

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000404	MICHIGAN MEMORIAL PHOENIX PROJECT LABORATORY	1955	46,653	Teach, Research, Support	\$992,767.99
1000222	MICHIGAN NEWS BUILDING	1955	7,811	Administration & Support	\$2,608,758.94
1000711	MICHIGAN STADIUM	1927	570,378	Intercollegiate Athletics Bldg	\$0.00
1005242	MICHIGAN STADIUM NORTH PLAZA BUILDING A	2009	9,029	Intercollegiate Athletics Bldg	
1005243	MICHIGAN STADIUM NORTH PLAZA BUILDING B	2009	9,337	Intercollegiate Athletics Bldg	
1000120	MICHIGAN UNION	1919	262,717	Recreational Sports Building	\$662,648.58
1002500	MITCHELL FIELD BUILDING	1981	1,440	Recreational Sports Building	\$3,084.58
1005380	MITCHELL FIELD RECREATION BUILDING	2014	3,661	Recreational Sports Building	\$1,542.30
1000207	MODERN LANGUAGES BUILDING	1972	135,332	Teach, Research, Support	\$10,989,318.87
1005348	MODULAR MRI BUILDING	2012	824	Teach, Research, Support	
1000100	MOLECULAR & BEHAVIORAL NEUROSCIENCE INSTITUTE	1960	49,956	Teach, Research, Support	\$10,094,234.46
1000440	MOORE EARL V BLDG	1964	172,639	Teach, Research, Support	\$13,587,507.51
1000061	MOSHER ELIZA M HALL & JORDAN MYRA B HALL	1930	191,152	Resident Hall	\$3,096,145.20
1005173	MOTT CHILDRENS VON VOIGTLANDER WOMENS HOSPITALS	2011	1,126,305	Clinical Delivery System	
1005503	MULTI-SPORT SUPPORT BUILDING	2008	2,083	Intercollegiate Athletics Bldg	
1005369	MUNGER GRADUATE RESIDENCES	2015	390,215	Resident Hall	\$1,610,606.51
1000415	NAVAL ARCHITECTURE AND MARINE ENGINEERING	1962	28,207	Teach, Research, Support	\$4,936,272.70
1005205	NC GROUNDS GARAGE 1	2007	1,692	Administration & Support	\$3,238.82
1000220	NC GROUNDS STORAGE BUILDING # 1	1953	3,373	Administration & Support	\$348,032.67
1005111	NC GROUNDS STORAGE BUILDING # 2	1987	2,008	Administration & Support	\$5,398.02
1005116	NC GROUNDS STORAGE BUILDING # 3	1987	2,008	Administration & Support	\$10,024.90
1005131	NC STORAGE BUILDING #4	2003	4,792	Administration & Support	\$4,626.87
TBD	NEW CENTRAL CAMPUS RESIDENTIAL DEVELOPMENT		*	Housing	
TBD	NEW MICHIGAN MARCHING BAND PRACTICE FIELD		*	Teach, Research, Support	
1005492	NEW PHARMACY BUILDING		*	Teach, Research, Support	
1000178	NEWBERRY HALL	1891	40,574	Teach, Research, Support	\$3,049,228.17
1000062	NEWBERRY HELEN H RESIDENCE	1915	31,304	Resident Hall	\$12,872,863.96
1000007	NICHOLS ARBORETUM GAR WORKSHOP	1963	1,354	Teach, Research, Support	\$20,061.07
1000005	NICHOLS ARBORETUM RESIDENCE	1908	2,259	Teach, Research, Support	\$312,114.82
1000006	NICHOLS ARBORETUM STORAGE SHED	1908	308	Teach, Research, Support	\$64,356.38
1000399	NORTH CAMPUS ADMINISTRATIVE COMPLEX	1987	129,114	Clinical Delivery System	\$3,657,907.73
1005223	NORTH CAMPUS AUXILIARY SUPPORT BUILDING	2009	54,428	AdminSupport/CDS	\$1,734,000.00
1005018	NORTH CAMPUS CHILDRENS CENTER	1999	14,426	Teach, Research, Support	\$574,198.11
1005139	NORTH CAMPUS CHILLER PLANT	2005	17,758	Administration & Support	\$3,539,440.80
1002506	NORTH CAMPUS FACILITIES SERVICES BUILDING	1999	48,588	Administration & Support	\$26,990.12
1002514	NORTH CAMPUS GROUND SVC FACILITY	1990	28,246	Administration & Support	\$1,257,159.70
1005140	NORTH CAMPUS GROUND SVC FACILITY ANNEX	2003	112	Administration & Support	\$4,626.88
1005297	NORTH CAMPUS GROUNDS STORAGE SHED	2009	256	Administration & Support	\$0.00

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000449	NORTH CAMPUS HOUSING SERVICE BLD	1978	31,855	Administration & Support	\$1,244,827.47
1002517	NORTH CAMPUS MICROWAVE TOWER	1991	279	Administration & Support	
1000427	NORTH CAMPUS RECREATION BUILDING	1976	67,512	Recreational Sports Building	\$0.00
1005253	NORTH CAMPUS RESEARCH COMPLEX BUILDING 10	1959	66,940	Teach, Research, Support	\$10,499,462.05
1005276	NORTH CAMPUS RESEARCH COMPLEX BUILDING 100	1964	10,492	Teach, Research, Support	\$1,746,400.39
1005254	NORTH CAMPUS RESEARCH COMPLEX BUILDING 14	1987	53,718	Teach, Research, Support	\$7,410,387.73
1005255	NORTH CAMPUS RESEARCH COMPLEX BUILDING 15	1959	4,623	Administration & Support	\$371,912.71
1005256	NORTH CAMPUS RESEARCH COMPLEX BUILDING 16	1991	121,832	Teach, Research, Support	\$6,642,220.19
1005258	NORTH CAMPUS RESEARCH COMPLEX BUILDING 18	2000	92,400	Teach, Research, Support	\$3,177,261.17
1005259	NORTH CAMPUS RESEARCH COMPLEX BUILDING 20	1959	182,996	Teach, Research, Support	\$16,386,635.05
1005277	NORTH CAMPUS RESEARCH COMPLEX BUILDING 200	1964	26,648	Teach, Research, Support	\$2,578,266.71
1005260	NORTH CAMPUS RESEARCH COMPLEX BUILDING 22	1999	21,270	Teach, Research, Support	\$3,042,822.14
1005261	NORTH CAMPUS RESEARCH COMPLEX BUILDING 23	2002	10,517	Teach, Research, Support	\$123,757.34
1005262	NORTH CAMPUS RESEARCH COMPLEX BUILDING 25	1984	103,912	Teach, Research, Support	\$25,296,431.37
1005263	NORTH CAMPUS RESEARCH COMPLEX BUILDING 26	2000	192,689	Teach, Research, Support	\$6,685,883.83
1005264	NORTH CAMPUS RESEARCH COMPLEX BUILDING 28	1992	131,407	Teach, Research, Support	\$28,122,769.14
1005265	NORTH CAMPUS RESEARCH COMPLEX BUILDING 30	1965	34,632	Teach, Research, Support	\$9,015,918.93
1005278	NORTH CAMPUS RESEARCH COMPLEX BUILDING 300	1964	39,513	Teach, Research, Support	\$3,667,325.94
1005432	NORTH CAMPUS RESEARCH COMPLEX BUILDING 32	1992	6,958	Teach, Research, Support	\$24,090.62
1005266	NORTH CAMPUS RESEARCH COMPLEX BUILDING 35	1985	93,162	Teach, Research, Support	\$53,980,044.79
1005267	NORTH CAMPUS RESEARCH COMPLEX BUILDING 36	2006	116,857	Teach, Research, Support	\$3,802,231.17
1005279	NORTH CAMPUS RESEARCH COMPLEX BUILDING 400	1982	27,571	Teach, Research, Support	\$2,755,630.66
1005280	NORTH CAMPUS RESEARCH COMPLEX BUILDING 500	1998	14,775	Administration & Support	\$0.00
1005281	NORTH CAMPUS RESEARCH COMPLEX BUILDING 520	1998	199,850	Teach, Research, Support	\$8,990,671.68
1005282	NORTH CAMPUS RESEARCH COMPLEX BUILDING 550	1998	236,634	Teach, Research, Support	\$4,258,095.61
1005270	NORTH CAMPUS RESEARCH COMPLEX BUILDING 60	1983	25,380	Teach, Research, Support	\$4,631,928.02
1005271	NORTH CAMPUS RESEARCH COMPLEX BUILDING 70	1959	773	Teach, Research, Support	\$51,494.04
1005272	NORTH CAMPUS RESEARCH COMPLEX BUILDING 73	1991	231,655	Parking Structure	\$579,822.84
1005273	NORTH CAMPUS RESEARCH COMPLEX BUILDING 80	1959	52,404	Administration & Support	\$14,766,455.83
1005283	NORTH CAMPUS RESEARCH COMPLEX BUILDING 800	2001	20,250	Administration & Support	\$1,079,790.29
1005274	NORTH CAMPUS RESEARCH COMPLEX BUILDING 85	2005	5,132	Administration & Support	\$348,971.13
1005275	NORTH CAMPUS RESEARCH COMPLEX BUILDING 90	1999	35,767	Teach, Research, Support	\$2,205,251.85
1000418	NORTH CAMPUS SERVICE BLDG #1	1965	23,191	Administration & Support	\$1,046,300.46
1000430	NORTH CAMPUS STORAGE BUILDING	1967	45,750	Administration & Support	\$2,142,136.30
1005334	NORTH CAMPUS SUPPORT FACILITY	2011	2,529	Administration & Support	
1005177	NORTH QUADRANGLE RESIDENTIAL AND ACADEMIC COMPLEX	2010	388,357	Resident Hall	\$8,064,369.08
1000600	NORTHWOOD COMMUNITY CENTER	1991	13,744	Recreational Sports Building	\$1,341,320.73
1000451	NORTHWOOD I APTS 451	1955	11,744	Residence	\$51,346.00

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000452	NORTHWOOD I APTS 452	1955	5,312	Residence	
1000453	NORTHWOOD I APTS 453	1955	14,412	Residence	
1000454	NORTHWOOD I APTS 454	1955	14,412	Residence	\$21,050.00
1000455	NORTHWOOD I APTS 455	1955	5,312	Residence	
1000456	NORTHWOOD I APTS 456	1955	11,744	Residence	\$5,350.00
1000450	NORTHWOOD I SVC BUILDING 450	1955	3,168	Residence	\$20,056,591.02
1000462	NORTHWOOD II APTS 462	1957	4,246	Residence	
1000464	NORTHWOOD II APTS 464	1957	5,645	Residence	
1000465	NORTHWOOD II APTS 465	1957	5,645	Residence	\$34,600.00
1000466	NORTHWOOD II APTS 466	1957	4,246	Residence	
1000467	NORTHWOOD II APTS 467	1957	4,246	Residence	
1000468	NORTHWOOD II APTS 468	1957	4,246	Residence	
1000469	NORTHWOOD II APTS 469	1957	12,405	Residence	
1000470	NORTHWOOD II APTS 470	1957	5,645	Residence	\$3,300.00
1000471	NORTHWOOD II APTS 471	1957	5,645	Residence	
1000472	NORTHWOOD II APTS 472	1957	5,645	Residence	
1000473	NORTHWOOD II APTS 473	1957	12,405	Residence	
1000474	NORTHWOOD II APTS 474	1957	3,738	Residence	
1000475	NORTHWOOD II APTS 475	1957	3,738	Residence	
1000476	NORTHWOOD II APTS 476	1957	3,738	Residence	
1000477	NORTHWOOD II APTS 477	1957	3,738	Residence	
1000478	NORTHWOOD II APTS 478	1957	3,738	Residence	
1000479	NORTHWOOD II APTS 479	1957	5,645	Residence	
1000480	NORTHWOOD II APTS 480	1957	5,645	Residence	
1000481	NORTHWOOD II APTS 481	1957	5,645	Residence	
1000482	NORTHWOOD II APTS 482	1957	3,738	Residence	
1000483	NORTHWOOD II APTS 483	1957	3,738	Residence	
1000484	NORTHWOOD II APTS 484	1957	3,738	Residence	
1000485	NORTHWOOD II APTS 485	1957	3,738	Residence	
1000486	NORTHWOOD II APTS 486	1957	3,738	Residence	
1000487	NORTHWOOD II APTS 487	1957	3,738	Residence	
1000488	NORTHWOOD II APTS 488	1957	3,738	Residence	
1000489	NORTHWOOD II APTS 489	1957	3,738	Residence	
1000490	NORTHWOOD II APTS 490	1957	3,738	Residence	
1000491	NORTHWOOD II APTS 491	1957	3,738	Residence	
1000492	NORTHWOOD II APTS 492	1957	3,738	Residence	
1000493	NORTHWOOD II APTS 493	1957	3,738	Residence	
1000494	NORTHWOOD II APTS 494	1957	3,738	Residence	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000495	NORTHWOOD II APTS 495	1957	3,738	Residence	
1000496	NORTHWOOD II APTS 496	1957	3,738	Residence	
1000497	NORTHWOOD II APTS 497	1957	3,738	Residence	
1000457	NORTHWOOD II SVC BUILDING 457	1957	5,400	Residence	\$43,630,086.25
1000458	NORTHWOOD II SVC BUILDING 458	1957	2,760	Residence	
1000459	NORTHWOOD II SVC BUILDING 459	1957	2,879	Residence	
1000460	NORTHWOOD II SVC BUILDING 460	1957	5,270	Residence	
1000461	NORTHWOOD II SVC BUILDING 461	1957	2,879	Residence	
1000499	NORTHWOOD III SVC BUILDING 499	1958	2,471	Residence	
1000500	NORTHWOOD III SVC BUILDING 500	1958	2,471	Residence	
1000601	NORTHWOOD IV APTS 601	1969	8,029	Residence	\$82,890,309.59
1000602	NORTHWOOD IV APTS 602	1969	4,061	Residence	
1000603	NORTHWOOD IV APTS 603	1969	3,066	Residence	
1000604	NORTHWOOD IV APTS 604	1969	4,899	Residence	
1000605	NORTHWOOD IV APTS 605	1969	10,708	Residence	
1000606	NORTHWOOD IV APTS 606	1969	3,117	Residence	\$3,040.00
1000607	NORTHWOOD IV APTS 607	1969	6,763	Residence	
1000608	NORTHWOOD IV APTS 608	1969	5,425	Residence	
1000609	NORTHWOOD IV APTS 609	1969	5,425	Residence	
1000610	NORTHWOOD IV APTS 610	1969	4,123	Residence	
1000611	NORTHWOOD IV APTS 611	1969	7,181	Residence	
1000612	NORTHWOOD IV APTS 612	1969	6,726	Residence	
1000613	NORTHWOOD IV APTS 613	1969	4,442	Residence	
1000614	NORTHWOOD IV APTS 614	1969	5,399	Residence	
1000615	NORTHWOOD IV APTS 615	1969	3,159	Residence	
1000616	NORTHWOOD IV APTS 616	1969	10,707	Residence	
1000617	NORTHWOOD IV APTS 617	1969	7,967	Residence	
1000618	NORTHWOOD IV APTS 618	1969	7,082	Residence	
1000619	NORTHWOOD IV APTS 619	1969	6,727	Residence	
1000620	NORTHWOOD IV APTS 620	1969	6,727	Residence	
1000621	NORTHWOOD IV APTS 621	1969	3,117	Residence	
1000622	NORTHWOOD IV APTS 622	1969	5,876	Residence	
1000623	NORTHWOOD IV APTS 623	1969	8,065	Residence	
1000624	NORTHWOOD IV APTS 624	1969	6,727	Residence	
1000625	NORTHWOOD IV APTS 625	1969	4,061	Residence	
1000626	NORTHWOOD IV APTS 626	1969	5,741	Residence	
1000627	NORTHWOOD IV APTS 627	1969	3,117	Residence	
1000628	NORTHWOOD IV APTS 628	1969	5,425	Residence	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000629	NORTHWOOD IV APTS 629	1969	5,425	Residence	
1000630	NORTHWOOD IV APTS 630	1969	11,534	Residence	
1000631	NORTHWOOD IV APTS 631	1969	4,442	Residence	
1000632	NORTHWOOD IV APTS 632	1969	2,821	Residence	
1000633	NORTHWOOD IV APTS 633	1969	6,727	Residence	
1000634	NORTHWOOD IV APTS 634	1969	4,123	Residence	
1000635	NORTHWOOD IV APTS 635	1969	4,123	Residence	
1000636	NORTHWOOD IV APTS 636	1969	3,159	Residence	
1000637	NORTHWOOD IV APTS 637	1969	7,034	Residence	
1000638	NORTHWOOD IV APTS 638	1969	5,775	Residence	
1000639	NORTHWOOD IV APTS 639	1969	8,029	Residence	
1000640	NORTHWOOD IV APTS 640	1969	5,425	Residence	
1000641	NORTHWOOD IV APTS 641	1969	4,478	Residence	
1000642	NORTHWOOD IV APTS 642	1969	4,061	Residence	
1000643	NORTHWOOD IV APTS 643	1969	5,363	Residence	
1000644	NORTHWOOD IV APTS 644	1969	8,348	Residence	
1000645	NORTHWOOD IV APTS 645	1969	6,279	Residence	
1000646	NORTHWOOD IV APTS 646	1969	5,425	Residence	
1000647	NORTHWOOD IV APTS 647	1969	4,123	Residence	
1000648	NORTHWOOD IV APTS 648	1969	3,159	Residence	
1000649	NORTHWOOD IV APTS 649	1969	4,442	Residence	
1000650	NORTHWOOD IV APTS 650	1969	4,123	Residence	\$1,250.00
1000651	NORTHWOOD IV APTS 651	1969	5,425	Residence	
1000652	NORTHWOOD IV APTS 652	1969	6,701	Residence	
1000653	NORTHWOOD IV APTS 653	1969	4,442	Residence	\$4,500.00
1000654	NORTHWOOD IV APTS 654	1969	5,425	Residence	
1000655	NORTHWOOD IV APTS 655	1969	11,099	Residence	
1000656	NORTHWOOD IV APTS 656	1969	10,080	Residence	
1000657	NORTHWOOD IV APTS 657	1969	6,727	Residence	
1000658	NORTHWOOD IV APTS 658	1969	8,480	Residence	
1000659	NORTHWOOD IV APTS 659	1969	9,269	Residence	
1000660	NORTHWOOD IV APTS 660	1969	8,348	Residence	
1000661	NORTHWOOD IV APTS 661	1969	5,744	Residence	
1000662	NORTHWOOD IV APTS 662	1969	3,159	Residence	
1000663	NORTHWOOD IV APTS 663	1969	9,650	Residence	
1000664	NORTHWOOD IV APTS 664	1969	8,348	Residence	
1000665	NORTHWOOD IV APTS 665	1969	3,159	Residence	
1000666	NORTHWOOD IV APTS 666	1969	4,442	Residence	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000667	NORTHWOOD IV APTS 667	1969	6,665	Residence	
1000668	NORTHWOOD IV APTS 668	1969	9,331	Residence	
1000669	NORTHWOOD IV APTS 669	1969	8,348	Residence	
1000670	NORTHWOOD IV APTS 670	1969	7,095	Residence	
1000671	NORTHWOOD IV APTS 671	1969	10,858	Residence	
1000672	NORTHWOOD IV APTS 672	1969	5,425	Residence	
1000673	NORTHWOOD IV APTS 673	1969	9,779	Residence	
1000674	NORTHWOOD IV APTS 674	1969	8,029	Residence	
1000675	NORTHWOOD IV APTS 675	1969	10,679	Residence	
1000676	NORTHWOOD IV APTS 676	1969	6,727	Residence	
1000677	NORTHWOOD IV APTS 677	1969	8,104	Residence	
1000678	NORTHWOOD IV APTS 678	1969	7,046	Residence	
1000679	NORTHWOOD IV APTS 679	1969	3,159	Residence	
1000680	NORTHWOOD IV APTS 680	1969	7,967	Residence	
1000681	NORTHWOOD IV APTS 681	1969	8,348	Residence	
1000682	NORTHWOOD IV APTS 682	1969	11,045	Residence	
1000683	NORTHWOOD IV APTS 683	1969	6,727	Residence	
1000684	NORTHWOOD IV APTS 684	1996	1,479	Residence	
1002701	NORTHWOOD V APTS 2701	1972	5,603	Residence	\$73,355,013.07
1002702	NORTHWOOD V APTS 2702	1972	10,695	Residence	
1002703	NORTHWOOD V APTS 2703	1972	9,393	Residence	
1002704	NORTHWOOD V APTS 2704	1972	5,603	Residence	
1002705	NORTHWOOD V APTS 2705	1972	9,393	Residence	\$175.00
1002706	NORTHWOOD V APTS 2706	1972	9,393	Residence	
1002707	NORTHWOOD V APTS 2707	1972	5,603	Residence	
1002708	NORTHWOOD V APTS 2708	1972	8,091	Residence	
1002709	NORTHWOOD V APTS 2709	1972	6,218	Residence	
1002710	NORTHWOOD V APTS 2710	1972	9,393	Residence	
1002711	NORTHWOOD V APTS 2711	1972	8,091	Residence	
1002712	NORTHWOOD V APTS 2712	1972	6,789	Residence	
1002713	NORTHWOOD V APTS 2713	1972	5,603	Residence	
1002714	NORTHWOOD V APTS 2714	1972	6,789	Residence	
1002715	NORTHWOOD V APTS 2715	1972	5,603	Residence	
1002716	NORTHWOOD V APTS 2716	1972	8,091	Residence	
1002717	NORTHWOOD V APTS 2717	1972	6,218	Residence	
1002718	NORTHWOOD V APTS 2718	1972	6,218	Residence	
1002719	NORTHWOOD V APTS 2719	1972	5,603	Residence	
1002720	NORTHWOOD V APTS 2720	1972	5,603	Residence	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1002721	NORTHWOOD V APTS 2721	1972	5,603	Residence	
1002722	NORTHWOOD V APTS 2722	1972	9,393	Residence	
1002723	NORTHWOOD V APTS 2723	1972	5,603	Residence	
1002724	NORTHWOOD V APTS 2724	1972	6,789	Residence	
1002725	NORTHWOOD V APTS 2725	1972	6,789	Residence	
1002726	NORTHWOOD V APTS 2726	1972	6,218	Residence	
1002727	NORTHWOOD V APTS 2727	1972	6,218	Residence	
1002728	NORTHWOOD V APTS 2728	1972	5,603	Residence	
1002729	NORTHWOOD V APTS 2729	1972	6,789	Residence	
1002730	NORTHWOOD V APTS 2730	1972	5,603	Residence	
1002731	NORTHWOOD V APTS 2731	1972	6,789	Residence	
1002732	NORTHWOOD V APTS 2732	1972	8,091	Residence	
1002733	NORTHWOOD V APTS 2733	1972	9,393	Residence	
1002734	NORTHWOOD V APTS 2734	1972	8,091	Residence	
1002735	NORTHWOOD V APTS 2735	1972	5,603	Residence	
1002736	NORTHWOOD V APTS 2736	1972	5,603	Residence	
1002737	NORTHWOOD V APTS 2737	1972	6,218	Residence	
1002738	NORTHWOOD V APTS 2738	1972	5,603	Residence	\$255.00
1002739	NORTHWOOD V APTS 2739	1972	6,789	Residence	
1002740	NORTHWOOD V APTS 2740	1972	8,091	Residence	
1002741	NORTHWOOD V APTS 2741	1972	8,091	Residence	
1002742	NORTHWOOD V APTS 2742	1972	9,393	Residence	
1002743	NORTHWOOD V APTS 2743	1972	5,603	Residence	
1002744	NORTHWOOD V APTS 2744	1972	8,091	Residence	
1002745	NORTHWOOD V APTS 2745	1972	9,393	Residence	
1002746	NORTHWOOD V APTS 2746	1972	5,603	Residence	
1002747	NORTHWOOD V APTS 2747	1972	5,603	Residence	
1002748	NORTHWOOD V APTS 2748	1972	5,603	Residence	
1002749	NORTHWOOD V APTS 2749	1972	6,789	Residence	
1002750	NORTHWOOD V APTS 2750	1972	6,789	Residence	
1002751	NORTHWOOD V APTS 2751	1972	5,603	Residence	
1002752	NORTHWOOD V APTS 2752	1972	8,091	Residence	
1002753	NORTHWOOD V APTS 2753	1972	5,603	Residence	
1002754	NORTHWOOD V APTS 2754	1972	6,789	Residence	
1002755	NORTHWOOD V APTS 2755	1972	5,603	Residence	
1002756	NORTHWOOD V APTS 2756	1972	9,393	Residence	
1002757	NORTHWOOD V APTS 2757	1972	5,603	Residence	
1002758	NORTHWOOD V APTS 2758	1972	9,393	Residence	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1002759	NORTHWOOD V APTS 2759	1972	9,393	Residence	
1002760	NORTHWOOD V APTS 2760	1972	5,603	Residence	
1002761	NORTHWOOD V APTS 2761	1972	5,603	Residence	
1002762	NORTHWOOD V APTS 2762	1972	9,393	Residence	
1002763	NORTHWOOD V APTS 2763	1972	5,603	Residence	
1002764	NORTHWOOD V APTS 2764	1972	6,789	Residence	
1002765	NORTHWOOD V APTS 2765	1972	6,789	Residence	
1002766	NORTHWOOD V APTS 2766	1972	6,218	Residence	
1002767	NORTHWOOD V APTS 2767	1972	5,603	Residence	
1002768	NORTHWOOD V APTS 2768	1972	6,789	Residence	
1002769	NORTHWOOD V APTS 2769	1972	6,789	Residence	
1002770	NORTHWOOD V APTS 2770	1972	8,091	Residence	
1002771	NORTHWOOD V APTS 2771	1972	6,218	Residence	
1002772	NORTHWOOD V APTS 2772	1972	9,279	Residence	
1002773	NORTHWOOD V APTS 2773	1972	9,279	Residence	
1002774	NORTHWOOD V APTS 2774	1972	9,279	Residence	
1002775	NORTHWOOD V APTS 2775	1972	6,218	Residence	\$1,600.00
1002776	NORTHWOOD V APTS 2776	1972	9,279	Residence	
1002777	NORTHWOOD V APTS 2777	1972	6,218	Residence	
1002778	NORTHWOOD V APTS 2778	1972	6,218	Residence	
1002779	NORTHWOOD V APTS 2779	1972	9,279	Residence	\$14,950.00
1000405	NUCLEAR ENGINEERING LABORATORIES	1955	20,565	Teach, Research, Support	\$572,730.60
1000851	OBSERVATORY HALL	1930	30,964	Teach, Research, Support	\$5,552.27
1000042	OH ADELIA CHEEVER RESIDENCE	1964	9,413	Resident Hall	
1000041	OH ARTHUR AND HAZEL VANDENBERG HALL	1964	20,117	Resident Hall	\$15,150.00
1000043	OH GEDDES RESIDENCE	1964	11,204	Resident Hall	
1000044	OH JULIA ESTHER EMANUEL RESIDENCE	1964	8,984	Resident Hall	
1000046	OH LAUREL HARPER SEELEY HALL	1964	36,375	Resident Hall	
1000040	OH MARY ALICE AND LILLIAN GODDARD HALL	1964	21,995	Resident Hall	\$29,854,027.53
1000045	OH PAMELA NOBLE RESIDENCE	1964	9,413	Resident Hall	
1000047	OH PLANT SERVICE	1964	3,341	Administration & Support	\$107,327.20
1000704	OOSTERBAAN BENNIE FIELD HOUSE	1981	89,001	Intercollegiate Athletics Bldg	\$778,652.94
1005047	PALMER COMMONS	2005	106,471	Teach, Research, Support	\$3,872,103.51
1000263	PALMER DRIVE PARKING STRUCTURE	2004	391,303	Parking Structure	\$589,007.51
1005510	PALMER FIELD TEMPORARY RECREATION FACILITY	2022	23,854	Recreational Sports Building	\$0.00
1005399	PERFORMANCE CENTER	2018	147,863	Intercollegiate Athletics Bldg	
1000890	PERRY BUILDING	1902	117,904	Teach, Research, Support	\$829,785.78
1000807	PHYSICAL PROPERTIES BUILDING	1920	7,183	Administration & Support	\$633,566.11

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000442	PIERPONT WILBUR K COMMONS	1965	90,488	Recreational Sports Building	\$8,829,572.34
1008050	PLANT STORAGE BUILDING #1	1987	3,087	Administration & Support	
1008051	PLANT STORAGE BUILDING #2	1987	2,577	Administration & Support	
1008052	PLANT STORAGE BUILDING #3	1987	2,577	Administration & Support	
1005385	POSTMA RICHARD L FAMILY CLUBHOUSE	2017	25,268	Intercollegiate Athletics Bldg	
1000186	POUND MADELON HOUSE	1898	7,571	Teach, Research, Support	\$1,983,517.05
1000187	POUND MADELON HOUSE GARAGE	1951	527	Teach, Research, Support	
1000180	POWER CENTER FOR PERFORMING ARTS	1971	73,088	Teach, Research, Support	\$4,599,912.30
1000203	PRESIDENTS RESIDENCE	1840	14,705	Administration & Support	\$1,017,257.31
1000172	RACKHAM HORACE H SCHOOL OF GRADUATE STUDIES	1938	157,957	Teach, Research, Support	\$4,801,921.89
1000416	RADIATION SCIENCES LABORATORY 1	1962	7,708	Teach, Research, Support	\$506,187.94
1000417	RADIATION SCIENCES LABORATORY 2	1962	10,660	Teach, Research, Support	\$420,593.53
1000972	RADRICK FARMS BARN #1	1962	4,902	Administration & Support	
1000955	RADRICK FARMS CARETAKERS HOUSE	1962	2,874	Administration & Support	
1000958	RADRICK FARMS CHICKEN HOUSE	1962	200	Administration & Support	
1000970	RADRICK FARMS COMFORT STATION	1987	251	Administration & Support	
1005331	RADRICK FARMS COMFORT STATION #2	1987	253	Administration & Support	
1000959	RADRICK FARMS CORNCRIB #1	1962	105	Administration & Support	
1000918	RADRICK FARMS DRIVE RANGE SHELTER	1989	128	Administration & Support	
1000962	RADRICK FARMS FIRE BARN	1962	792	Administration & Support	
1000960	RADRICK FARMS FOOD SERVICE BLDG	1995	408	Administration & Support	
1000974	RADRICK FARMS GOLF CART BUILDING	1976	2,909	Administration & Support	
1000963	RADRICK FARMS GOLF CLUBHOUSE	1940	10,725	Administration & Support	
1000971	RADRICK FARMS GOLF STORAGE BLDG	1966	6,458	Administration & Support	
1000954	RADRICK FARMS PUMP HOUSE	1976	168	Administration & Support	
1000956	RADRICK FARMS SHED-GARAGE	1962	2,370	Administration & Support	
1005048	RADRICK FARMS STORAGE	2003	4,055	Administration & Support	\$4,472.65
1000957	RADRICK FARMS TACKROOM-BARN	1962	2,855	Administration & Support	
1000953	RADRICK RECREATION FACILITY	1994	2,459	Recreational Sports Building	\$5,398.03
1000208	RANDALL HARRISON M LABORATORY	1924	217,047	Teach, Research, Support	\$7,486,870.94
1000812	RESEARCH MUSEUMS CENTER	1969	153,375	Teach, Research, Support	\$3,262,701.18
1005426	REVELLI TEMPORARY STORAGE BUILDING	2018	475	Teach, Research, Support	
1000813	REVELLI WILLIAM D BAND REHEARSAL HALL	1973	15,620	Teach, Research, Support	\$2,234,160.95
1000301	ROGEL CANCER CENTER	1997	278,072	TeachResSupport/CDS	\$72,352,850.03
1005188	ROSS SCHOOL OF BUSINESS BUILDING	2009	292,008	Teach, Research, Support	\$2,370,493.69
1005120	ROSS STEPHEN M ACADEMIC CENTER	2006	45,356	Teach, Research, Support	\$0.00
1000193	RUTHVEN ALEXANDER G BUILDING	1928	152,530	Administration & Support	\$24,338,875.56
1003542	SAGINAW FOREST GARAGE	1903	682	Teach, Research, Support	\$3,931.88

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1003541	SAGINAW FOREST RESIDENCE	1903	567	Teach, Research, Support	\$61,955.08
1000268	SALT STORAGE BUILDING	1984	2,385	Administration & Support	\$75,658.97
1000705	SCHEMBECHLER GLENN E HALL	1971	90,891	Intercollegiate Athletics Bldg	\$927,756.46
1000420	SCHOOL OF INFORMATION NORTH	1971	30,930	Teach, Research, Support	\$6,241,531.16
1000211	SCHOOL OF KINESIOLOGY BUILDING	1915	228,460	Teach, Research, Support	\$2,883,105.26
1000333	SCHOOL OF NURSING BUILDING 1	1913	141,977	Teach, Research, Support	\$19,837,814.47
1005347	SCHOOL OF NURSING BUILDING 2	2015	80,301	Teach, Research, Support	\$23,712.75
1000219	SCHOOL OF SOCIAL WORK BUILDING	1997	143,675	Teach, Research, Support	\$4,602,175.15
1000999	SEISMOGRAPH STATION	1963	576	Teach, Research, Support	
1000227	SHAPIRO HAROLD T AND VIVIAN B LIBRARY	1957	175,894	Library Building	\$9,691,138.53
1000944	SHEEP RESEARCH FAC EAST BARN	1983	2,016	Teach, Research, Support	
1005406	SHEEP RESEARCH FAC HOOP BARN	2002	2,038	Teach, Research, Support	
1000942	SHEEP RESEARCH FAC PORTAL VISTA	1993	3,744	Teach, Research, Support	
1000943	SHEEP RESEARCH FAC SQUARE DOME	1985	1,280	Teach, Research, Support	
1005405	SHEEP RESEARCH FAC TRACTOR SHED	1994	680	Teach, Research, Support	
1000947	SHEEP RESEARCH FACILITY HAY BARN	1976	280	Teach, Research, Support	
1000973	SHEEP RESEARCH FACILITY OLD BARN	1962	1,153	Teach, Research, Support	\$10,024.90
1000946	SHEEP RESEARCH FACILITY P BARN 1	1976	4,575	Teach, Research, Support	
1005349	SHEPHERD DONALD R SOFTBALL CENTER	2014	10,500	Intercollegiate Athletics Bldg	
1005077	SHEPHERD DONALD R WOMENS GYMNASTIC CENTER	2002	22,837	Intercollegiate Athletics Bldg	
1000320	SIMPSON CIRCLE PARKING STRUCTURE	1968	467,374	Parking Structure	\$80,078.20
1000212	SIMPSON THOMAS H MEMORIAL INST MEDICAL RESEARCH	1927	17,769	Teach, Research, Support	\$6,787,511.14
1005401	SOCCER TICKET BUILDING	2015	238	Intercollegiate Athletics Bldg	
1000063	SOUTH QUADRANGLE	1951	371,519	Resident Hall	\$78,398,951.25
1000714	STADIUM PUMPING STATION	1927	6,746	Intercollegiate Athletics Bldg	
1005224	STAMPS AUDITORIUM	2008	13,488	Teach, Research, Support	\$0.00
1000445	STEARNS FREDERICK BUILDING	1955	18,261	Teach, Research, Support	\$2,377,162.23
1000064	STOCKWELL MADELON LOUISA HALL	1940	145,204	Resident Hall	\$1,033,846.21
1000215	STUDENT ACTIVITIES	1957	119,626	Student Services	\$8,508,816.93
1000216	TAPPAN HALL	1894	37,576	Teach, Research, Support	\$2,252,873.26
1005037	TAUBMAN A ALFRED BIOMEDICAL SCIENCE RESEARCH BLDG	2006	593,717	Teach, Research, Support	\$8,671,556.74
1000317	TAUBMAN A ALFRED HEALTH CARE CTR	1986	405,003	Clinical Delivery System	\$35,570,114.47
1000209	TAUBMAN A ALFRED HEALTH SCIENCES LIBRARY	1980	143,973	Library Building	\$1,763,210.53
1008600	TELCOM MICROWAVE BLDG	1996	100	Administration & Support	
1002515	TELECOMMUNICATIONS BLDG I	1985	311	Administration & Support	
1000259	THAYER ST PARKING STRUCTURE	1962	165,419	Parking Structure	
1000255	THOMPSON ST PARKING STRUCTURE	1963	365,996	Parking Structure	\$0.00
1000738	TISCH PRESTON ROBERT TENNIS BLD	1997	89,026	Intercollegiate Athletics Bldg	

Bldg #	Building Name	Original Construction	Gross Sq Ft	Building Type	Deferred Maintenance Backlog
1000313	TOWSLEY CENTER FOR CONTINUING MEDICAL EDUCATION	1969	52,332	Teach, Research, Support	\$7,882,033.24
1005240	TOWSLEY CHILDRENS HOUSE	2010	25,428	Teach, Research, Support	\$891,061.66
1005400	TRACK AND FIELD AUXILIARY BUILDING	2018	2,325	Intercollegiate Athletics Bldg	
1005397	TRACK AND FIELD STADIUM	2018	512	Intercollegiate Athletics Bldg	
1000808	TRANSPORTATION SERVICES BUILDING	1964	40,633	Administration & Support	\$2,111,552.28
1005413	TROTTER WILLIAM MONROE MULTICULTURAL CENTER	2019	20,719	Student Services	\$0.00
1002519	UM TRANS RES FLAMMABLE STOR BLDG	1996	192	Teach, Research, Support	
1000444	U-M TRANSPORTATION RESEARCH INST	1969	77,883	Teach, Research, Support	\$12,112,632.57
1005338	UM TRANSPORTATION RESEARCH TESTING BUILDING	2012	3,454	Teach, Research, Support	
1005051	UMH MODULAR OFFICE A	2000	2,050	Clinical Delivery System	
1005046	UNDERGRADUATE SCIENCE BUILDING	2005	141,749	Teach, Research, Support	\$1,636,980.37
1000390	UNIV HOSPITALS CHILD CARE CENTER	1991	14,850	Clinical Delivery System	\$476,565.05
1000316	UNIVERSITY HOSPITAL	1986	1,713,623	Clinical Delivery System	\$189,704,602.46
1000309	UNIVERSITY HOSPITAL SOUTH UNIT 1	1950	67,494	Clinical Delivery System	\$4,059,268.58
1000312	UNIVERSITY HOSPITAL SOUTH UNIT 2	1969	266,038	Clinical Delivery System	\$61,073,497.72
1000314	UNIVERSITY HOSPITAL SOUTH UNIT 3	1972	19,988	Clinical Delivery System	\$1,355,107.69
1000318	UNIVERSITY HOSPITAL SOUTH UNIT 4	1990	158,938	Clinical Delivery System	\$8,570,406.72
1005012	UNIVERSITY HOSPITALS HELIPAD	2001	5,397	Clinical Delivery System	
1005117	UPJOHN RACHEL BUILDING	2006	117,097	Clinical Delivery System	
1000261	UTILITIES SERVICE BUILDING	1973	15,183	Administration & Support	\$2,154,193.85
1000204	VAUGHAN HENRY FRIEZE PUBLIC HEALTH BUILDING	1942	210,800	Teach, Research, Support	\$1,217,390.76
1000065	VAUGHAN VICTOR C HOUSE	1939	51,518	Teach, Research, Support	\$6,461,378.70
1005059	WALGREEN CHARLES R JR DRAMA CENTER	2007	84,149	Teach, Research, Support	\$1,276,039.55
1005193	WALL STREET EAST PARKING STRUCTURE	2014	249,962	Parking Structure	
1005430	WALL STREET WEST PARKING STRUCTURE	2020	367,321	Parking Structure	\$0.00
1008067	WALLACE MIKE AND MARY HOUSE	1909	7,863	Teach, Research, Support	
1000731	WEIDENBACH JOHN P HALL	1955	23,229	Intercollegiate Athletics Bldg	\$535,556.46
1005101	WEILL JOAN & SANFORD HALL	2006	97,989	Teach, Research, Support	\$4,451,951.10
1000165	WEISER HALL	1963	144,701	Teach, Research, Support	\$2,111,859.27
1005319	WEISFELD FAMILY GOLF CENTER	2011	11,307	Intercollegiate Athletics Bldg	
1005388	WEST ANN ARBOR HEALTH CENTER NEW	2017	75,260	Clinical Delivery System	
1000167	WEST HALL	1904	166,528	Teach, Research, Support	\$2,217,002.31
1000066	WEST QUADRANGLE	1937	386,265	Resident Hall	\$3,591,785.63
1008090	WOLVERINE TOWER	1973	224,981	Administration & Support	\$13,269,166.38
1005189	WVGR TRANSMITTER BUILDING	2005	720	Administration & Support	
1000135	WYLY SAM HALL	2000	82,855	Teach, Research, Support	\$2,692,187.43
1000709	YOST ICE ARENA	1924	124,755	Intercollegiate Athletics Bldg	\$2,195,061.78