



CODES AND REGULATORY AGENCIES

Introduction

The University of Michigan is a State of Michigan constitutional corporation, governed by a Board of Regents elected by the People of the State of Michigan and has a great deal of regulatory autonomy. It is exempt from local building and zoning ordinances and subject to State of Michigan laws and regulations that are clearly intended to apply to universities. In lieu of local building ordinances and State of Michigan laws and regulations that do not apply at the University, the University chooses to require that new construction adhere to a number of well-established building codes and standards, as listed in this Section.

Regardless of origin or enforcing agency, all of the applicable building codes and standards listed and codes and standards referenced within the codes listed below are to be followed. Note, for instance, that compliance with the State of Michigan Bureau of Fire Safety rules for schools and/or dormitories does not eliminate the need to also comply with the Michigan Building Code, and that compliance with the 2010 Americans with Disabilities Act does not eliminate the need to comply with the barrier free provisions of the Michigan Building Code. Additional codes may apply for particular situations, such as for Medical Center construction; these are to be considered on the case-to-case basis. Many times adherence to narrow scope codes and/or standards is required by the general codes listed below.

New editions of building codes are published from time to time. For each project, the edition of building codes cited in this section from which the University of Michigan is listed as the “Enforcing Agency” is to be as follows:

The edition of building codes is to be as listed in this section as of the beginning of the design development phase of a project unless construction documents are submitted to the University for final review more than a year after adoption of the new version of the code. If more than one year has transpired between adoption of the new code and submission of construction documents to the University for final review, the edition of the building codes listed in this section as of submission of construction documents applies.

The University employs building inspectors, who are the authority having jurisdiction on all University property. Refer to each code dictation for authority having jurisdiction contact information.



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Building Codes for University of Michigan

Michigan Building Code 2015 (adopted April 20, 2017) promulgated by the State of Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes. Including rule 408.30401 Rule 401 as printed on the interior cover of the Michigan Building Code.

By local rule, the following exceptions/modifications are applied to the Michigan Building Code 2015 section 202, section 428, article 717.5.3, article 907.5.2.3.3, article 1010.1.9.11, Chapter 11, Chapter 13, Chapter 32 and Chapter 34:

Section 202 (adopted April 1, 2020): Add definition for Higher Educational Laboratories as follows:

HIGHER EDUCATION LABORATORY. Laboratories in Group B occupancies used for educational purposes above the 12th grade. Storage, use and handling of chemicals in such laboratories shall be limited to purposes related to testing, analysis, teaching, research or developmental activities on a nonproduction basis.

Section 428 (adopted April 1, 2020): Add section 428 Higher Educational Laboratories as follows:

Section 428 Higher Educational Laboratories

428.1 Scope. Higher education laboratories complying with the requirements of Sections 428.1 through 428.4 shall be permitted to exceed the maximum allowable quantities of hazardous materials in control areas set forth in Tables 307.1(1) and 307.1(2) without requiring classification as a Group H occupancy. Except as specified in Section 428, such laboratories shall comply with all applicable provisions of this code and the *International Fire Code*.

428.2 Application. The provisions of Section 428 shall be applied as exceptions or additions to applicable requirements of this code. Unless specifically modified by Section 428, the storage, use and handling of hazardous materials shall comply with all other provisions in Chapters 38 and 50 through 67 of the *International Fire Code* and this code for quantities not exceeding the maximum allowable quantity.

428.3 Laboratory suite construction. Where laboratory suites are provided, they shall be constructed in accordance with this section and Chapter 38 of the *International Fire Code*. The number of laboratory suites and percentage of maximum allowable quantities of hazardous materials in laboratory suites shall be in accordance with Table 428.3.

428.3.1 Separation from other nonlaboratory areas. Laboratory suites shall be separated from other portions of the building in accordance with the most restrictive of the following:

1. Fire barriers and horizontal assemblies as required in Table 428.3. Fire barriers shall be constructed in accordance with Section 707 and horizontal assemblies constructed in accordance with Section 711.

Exception: Where an individual laboratory suite occupies more than one story, the fire resistance rating of intermediate floors contained within the laboratory suite shall comply with the requirements of this code.

2. Separations as required by Section 508.



428.3.2 Separation from other laboratory suites. Laboratory suites shall be separated from other laboratory suites in accordance with Table 428.3.

428.3.3 Floor assembly fire resistance. The floor assembly supporting laboratory suites and the construction supporting the floor of laboratory suites shall have a fire resistance rating of not less than 2 hours.

Exception: The floor assembly of the laboratory suites and the construction supporting the floor of the laboratory suites are allowed to be 1-hour fire resistance rated in buildings of Types IIA, IIIA and VA construction, provided that the building is three or fewer stories.

428.3.4 Maximum number. The maximum number of laboratory suites shall be in accordance with Table 428.3. Where a building contains both laboratory suites and control areas, the total number of laboratory suites and control areas within a building shall not exceed the maximum number of laboratory suites in accordance with Table 428.3.

428.3.5 Means of egress. Means of egress shall be in accordance with Chapter 10.

428.3.6 Standby or emergency power. Standby or emergency power shall be provided in accordance with Section 414.5.2 where laboratory suites are located above the sixth story above grade plane or located in a story below grade plane.

428.3.7 Ventilation. Ventilation shall be in accordance with Chapter 7 of NFPA 45, and the Michigan Mechanical Code.

428.3.8 Liquid tight floor. Portions of laboratory suites where hazardous materials are present shall be provided with a liquid-tight floor.

428.3.9 Automatic fire-extinguishing systems. Buildings containing laboratory suites shall be equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1.

428.4 Percentage of maximum allowable quantity in each laboratory suite. The percentage of maximum allowable quantities of hazardous materials in each laboratory suite shall be in accordance with Table 428.3.

TABLE 428.3 Design and Number of Laboratory Suites Per Floor

Floor Level	Percentage of the Maximum Allowable Quantity Per Lab Suite ^a	Number of Laboratory Suites Per Floor	Fire-Resistance Rating for Fire Barriers in Hours ^b
21+	Not allowed	Not Permitted	Not Permitted
16-20	25	1	2 ^c
11-15	50	1	2 ^c
Above Grade Plane	7-10	2	2 ^c
	4-6	4	1



	3	100	4	1
	1-2	100	6	1
	1	75	4	1
Below Grade Plane	2	50	2	1
	Lower than 2	Not Allowed	Not Allowed	Not Allowed

a. Percentages shall be of the maximum allowable quantity per control area shown in Tables 307.1(1) and 307.1(2), with all increases allowed in the footnotes to those tables.

b. Fire barriers shall include walls, floors and ceilings necessary to provide separation from other portions of the building.

c. Vertical fire barriers separating laboratory suites from other spaces on the same floor shall be permitted to be 1-hour fire-resistance rated.

Article 717.5.3 add exception number 6:

Exception 6. In other than I or H occupancies or Michigan Medicine owned and/or occupied facilities, when equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, smoke dampers are not required at shaft enclosures unless specifically required by other sections of the code. Instead, provide smoke dampers at locations and to function as prescribed in the 2012 edition of NFPA 90A - 'Standard for the Installation of Air-Conditioning and Ventilating Systems'.

Article 907.5.2.3.3 Group R-2 reference the following interpretation of the use of the word "capability":

In the sentence "all dwelling units and sleeping units shall be provided with the capability to support visible alarm notification appliances...". Capability of the fire alarm system shall be addressed by the spare capacity already required in all U of M fire alarm circuits and fire alarm panels. This spare capacity in the circuits (raceways, and installed conduit), shall be available immediately after the fire alarm system is commissioned. The spare capacity at the panel, may be in the form of power supplies sized for the expansion, and/or in the form of sufficient (spare) mounting space in the panel for the additionally needed power supplies. Refer to U of M Design Guideline and master specifications for spare capacity requirements.

Article 1010.1.9.11 add the following:

Exception 6. In existing buildings, doors on stair enclosures shall be permitted to be equipped with hardware that prevents reentry into the interior of the building, provided that egress is maintained and the doors are in compliance with the requirements of NFPA 101 - 2012, article 7.2.1.5.8

Section 907.5.2.3 Visual Alarms.

Add Exception 4. In all occupancies visual alarms are not required in the following:

- a) Offices less than 200 square feet.
- b) Closets and coat rooms.
- c) Electrical closets.
- d) Mechanical pipe chases.
- e) Crawl Spaces.
- f) Small restrooms with access inside classrooms.



- g) Custodial closets.
- h) Storage rooms less than 200 square feet.
- i) Unoccupied spaces.

Chapter 11 Section 1105 article 1105.1. add the following:

Accessible Public Exterior Entrances. All public exterior entrances provided in accordance with code must have at least one entrance door complying with Section 404.3 (Automatic and Power-Assisted Doors and Gates) of the ABAAS. Where an accessible public entrance has a vestibule with exterior and interior entrance doors, at least one exterior door and one interior door must comply with Section 404.3

Chapter 13 Energy Efficiency - Michigan Energy Code Part 10a rules incorporating the ASHRAE 90.1 2013 – Effective October 25, 2017

Chapter 32 Encroachments into the Public Right of Way: Within the public right of way adhere to City of Ann Arbor standards and specifications refer to the following web site for requirements:

<http://www.a2gov.org/departments/engineering/Pages/Right-Of-Way-and-Lane-Closure-Permits.aspx>

Chapter 35 Referenced Standards ICC Standard Reference Number ICC A117.1 – 2017 Standard for Accessible and Usable Buildings and Facilities – Effective March 1, 2020 adopted 2017 version in lieu of 2009.

The following regulations take precedence over conflicting requirements in the Michigan Building Code:

Chapter 13 State of Michigan Part 10a Energy Code Efficiency incorporating ASHRAE Standard 90.1 2013 – Effective October 25, 2017. Refer to University Design Guidelines for additional requirements and items listed above.

State of Michigan Elevator Code.

State of Michigan Mechanical Code 2015 and Michigan Plumbing Code 2015.

State of Michigan Electrical Code incorporating “NFPA 70 --National Electrical Code”, 2017 edition with University of Michigan modifications.

“NFPA 13 2013 -- Sprinkler Systems”.

“NFPA 45 2011-- Fire Protection for Laboratories Using Chemicals”.

“NFPA 72 -- National Fire Alarm Code”, 2013 edition with University of Michigan modifications.

“Guide for Care and Use of Laboratory Animals” promulgated by US Department of Health & Human Services”.

Enforcing Agency —

University of Michigan Architecture, Engineering and Construction.



Michigan Residential Code 2015 (adopted February 8, 2016) promulgated by the State of Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes. Including rule 408.30500 Rule 500 as printed on the interior cover of the Michigan Building Code which includes ASHRAE 2013.

Enforcing Agency —

University of Michigan Architecture, Engineering and Construction.

By local rule, the following exceptions/modifications are applied to the Michigan Residential Code Chapter 44:

Chapter 44 Referenced Standards ICC Standard Reference Number ICC/ANSI A117.1 – 2017 Standard for Accessible and Usable Buildings and Facilities – Effective March 1, 2020 adopted 2017 version in lieu of 2009.

ADA Standards for Accessible Design 2010 (adopted March 9, 2011) As required to comply with Section 504 of US Rehabilitation Act of 1973 Title II of Americans with Disabilities Act of 1990 and updated September 15, 2010. Also note that the University maintains a space-by-space database of non-compliance. Contact Architecture, Engineering and Construction for database information. Notice of corrections are to be reported to Architecture, Engineering and Construction for the purpose of updating the database.

State and local government facilities must follow the requirements of the 2010 Standards, including both the Title II regulations at 28 CFR 35.151; and the 2004 ADAAG at 36 CFR part 1191, appendices B and D. In the few places where requirements between the two differ, the requirements of 28 CFR 35.151 prevail.

Enforcing Agency —

All federal agencies (on complaint basis) for U.S. Rehabilitation Act of 1973, U.S.

Department of Justice and Architectural and Transportation Barriers Compliance Board (on complaint basis) for Americans with Disabilities Act.

Web site for 2010 ADA: <http://www.ADA.gov>

State of Michigan Health Care Safety Rules, Bureau of Fire Services (BFS) ((Filed December 23, 2014) Effective February 3, 2015) promulgated by the State of Michigan Bureau of Fire Services (incorporating by reference NFPA 101 – Life Safety Code 2012) and all other codes and standards currently enforced there in. Note this requires by reference compliance with NFPA 99 Health Care Facilities Code 2012.

For assistance in determining which projects are subject to plan review and inspection, and BFS fire alarm and fire suppression shop drawing review and inspection, MM FPD has developed a flowchart available at [BFS Flowchart](#). This flowchart has been reviewed by BFS, however it is not intended to replace professional judgment. Jurisdiction should be verified with BFS directly when it is not clear. Affirm decisions with MM Design Manager.

**Enforcing Agency —**

State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Fire Safety Plan Review Division
525 W Allegan 4th Floor
Lansing, MI. 48913-0001
(517) 241-8847

Administrative rules web site:

http://dmbinternet.state.mi.us/DMB/ORRDocs/AdminCode/1788_2018-009LR_AdminCode.pdf

State of Michigan Dormitory Fire Safety Rules for Schools, Colleges and Universities (Effective January 5, 2017) promulgated by the State of Michigan Bureau of Fire Services (incorporating by reference NFPA 101 – Life Safety Code 2012). Note that this standard applies only to fire compartments of buildings which contain dormitories. A listing of Ann Arbor campus buildings that contain dormitory space is included at the end of this section.

Enforcing Agency —

State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Fire Safety Plan Review Division
525 W Allegan 4th Floor
Lansing, MI. 48913-0001
(517) 241-8847

Administrative rules web site:

http://dmbinternet.state.mi.us/DMB/ORRDocs/AdminCode/965_2011-003LR_AdminCode.pdf

State of Michigan Fire Safety Rules for Schools, Colleges and Universities ((Filed May 19, 2016) Effective June 20, 2016) promulgated by the State of Michigan Bureau of Fire Services (incorporating by reference NFPA 101 – Life Safety Code 2012). Note that this standard applies only to fire compartments of buildings which contain instructional space (classrooms and/or instructional laboratories). A listing of Ann Arbor campus buildings that contain instructional space is included at the end of this section.

Enforcing Agency —

State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Fire Safety Plan Review Division
525 W Allegan 4th Floor
Lansing, MI. 48913-0001
(517) 241-8847

Administrative rules web site:

http://dmbinternet.state.mi.us/DMB/ORRDocs/AdminCode/964_2011-002LR_AdminCode.pdf

State of Michigan Human Services for Child Care in a Child Care Center Promulgated by the State of Michigan Human Services. Note that this standard applies only to fire compartments of buildings which contain child care centers. A listing of Ann Arbor campus buildings that contain Child Care Centers is included at the end of this section.

**Enforcing Agency —**

State of Michigan Department of Human Services
PO Box 30759
Lansing, MI. 48909-8150
(517) 241-2488

Administrative rules:

https://www.michigan.gov/documents/lara/BCAL_PUB_8_3_16_523999_7.pdf

State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Child Care Section
PO Box 30700
Lansing, MI. 48909

Application form for Child Care Plan Review:

https://www.michigan.gov/documents/lara/lara_BCAL_1787cc_Environmental_Health_Insp_ction_Request_0615_492991_7.pdf

Michigan Rehabilitation Code for Existing Buildings 2015 (adopted April 20, 2017) promulgated by the State of Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes. Including Rule R408.30551 Rule 551 and R408.30552 Rule 552 as printed on the interior cover of the Michigan Rehabilitation Code for Existing Buildings. By local rule, the following exceptions/modifications are applied to the Michigan Rehabilitation Code Chapter 7:

Chapter 7 Section 705 Article 705.2, add the following:

When exterior accessible entrances are altered by level 1 or higher alterations/renovations where not already existing provide at that public entrance at least one entrance door complying with Section 404.3 (Automatic and Power-Assisted Doors and Gates) of the ABAAS. Where an accessible public entrance has a vestibule with exterior and interior entrance doors, at least one exterior door and one interior door must comply with Section 404.3

Enforcing Agency —

University of Michigan Architecture, Engineering and Construction.

International Fire Code 2015 (adopted April 20, 2017) promulgated by the International Code Council as referenced in the Michigan Building Code.

Enforcing Agency —

University of Michigan EHS Fire Marshal.
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010 (734) 615-2718

State of Michigan Occupational Safety and Health Standards (MIOSHA) (Filed many different dates) Contact U of M Department of Environment, Health, and Safety for projects involving toxic and/or hazardous materials.

Contact UM Department of Environment, Health, and Safety (EHS) for projects affecting worker safety issues, such as work conditions resulting in exposure conditions to air contaminants, noise,



ergonomic hazards, blood borne pathogens, ionizing or nonionizing radiation, and potential for exposure to worker falls, electrical hazards, excavations.

Additional information is at web site: <http://ehs.umich.edu/plans-guidelines/>

Enforcing Agency —

Michigan Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration (MIOSHA)
530 W. Allegan Street
P.O. Box 30643
Lansing, MI 48909-8143
(800) 866-4674

Web Site: http://www.michigan.gov/lara/0,4601,7-154-11407_15368---,00.html

**State of Michigan Elevator Code (2010 Edition)
(Effective July 11, 2014)**

(Incorporating by reference the ASME A17.1 2010 Safety Code for Elevators and Escalators, the ASME A17.2 2012 Guide for Inspection of Elevators, Escalators, and Moving walks, the ASME A17.6-2010 Standard for Elevator Suspension, Compensation and Governor Systems, the ASME A17.7-2007- Performance-Based Safety Code for Elevators and Escalators, the ASME A18.1-2011 Safety Code Standard for Platform Lifts, and Stairway Chairlifts, and the ASME A90.1-2009 Safety Standard for Belt Manlifts.)

Enforcing Agency —

State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Construction Codes
Elevator Safety Division
Calvin W. Rogler, Chief Elevator Inspector
PO Box 30254
Lansing, MI. 48909
(517) 241-9337

Refer to Design Guidelines for additional requirements on Elevators.

Web site for State of Michigan Elevator codes: http://www.michigan.gov/lara/0,4601,7-154-35299_10575_17394_17420---,00.html

State of Michigan Mechanical Code 2015 Part 9a Mechanical Code Rules (Adopted April 20, 2017) (incorporating International Mechanical Code 2015 and Michigan amendments) promulgated by State of Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes.

Enforcing Agency —

University of Michigan Architecture, Engineering and Construction.

Web site for Part 9a:

http://www.michigan.gov/documents/lara/lara_bcc_2015-025_LR_-_Final_Part_9a_Mechanical_Code_545957_7.pdf

**State of Michigan Plumbing Code 2015 Part 7 Plumbing Code Rules (Adopted April 20, 2017)**

(Incorporating International Plumbing Code 2015 and Michigan amendments) promulgated by State of Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes.

By local rule the following modifications are applied to the Michigan Plumbing Code articles:

607.1 (2) (h): A 1070 mixing valve is permitted to control up to 5 accessible plumbing fixtures within the same room, The 1070 mixing valve shall be certified for a minimum flow rate of 1/2 GPM or less.

312.2 Drainage and vent water test. A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to the point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than a 10-foot (3048 mm) head of water. In testing successive sections, at least the upper 10 feet (3048 mm) of the next preceding section shall be tested so that no joint or pipe in the building, except the uppermost 10 feet (3048 mm) of the system, shall have been submitted to a test of less than a 10-foot (3048 mm) head of water. This pressure shall be held for not less than 15 minutes. The system shall then be tight at all points "

Enforcing Agency —

University of Michigan Architecture, Engineering and Construction.

Web site for Part 7:

http://www.michigan.gov/documents/lara/lara_bcc_plumbing_code_rules_011714_440029_7.pdf

NFPA 13 –Sprinkler Systems (2013 Edition)

The 2010 edition of NFPA 13 is incorporated by reference in the edition of NFPA 101 incorporated by the current State of Michigan Bureau of Fire Services rules for Schools, Colleges, Hospitals, and Universities. The Bureau of Construction Codes and Fire Safety permits use of more current versions of NFPA 13 with some limitations. Contact the Bureau of Fire Services for specifics.

Enforcing Agency —

Project jurisdiction NFPA 101:

State of Michigan Department of Licensing and Regulatory Affairs

Bureau of Fire Services, Plan Review/Fire Safety

300 N. Washington Square

Lansing, MI. 48913

(517) 241-8847

Project jurisdiction MBC: University of Michigan Architecture, Engineering and Construction



State of Michigan Electrical Code 2017 Part 8 Electrical Code Rules (Adopted January 22, 2019) (Incorporating NFPA 70 – National Electrical Code (2017 Edition) and Michigan Amendments) promulgated by State of Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes.

By local rule the following exceptions/modifications are applied to the Michigan Electrical Code:

Michigan Electrical Code Article 80: Article 80 of the Michigan Electrical Code applies with the following exceptions/modifications:

80.15 Electrical Board: Modify "electrical board" to "UM Building Code Committee".

80.19 Permits: Strike section 80.19.

80.23(B) Penalties: Strike section 80.23(B)

80.25 Connection to Electrical Supply: Modify language to read as follows:
"80.25. Connection to electricity supply. Connections to the electric supply shall conform to the following: It is unlawful for any person, firm, or corporation to make connection to a supply of electricity or to supply electricity to any electrical equipment installation for which permission from UM Electrical Utilities Engineering Group is required or that has been disconnected or ordered to be disconnected."

NEC 2017 Sections 700.32 and 701.27: The University may deviate from full selectivity (overcurrent protective device coordination within the emergency generator distribution system) in order to lower arc-flash energy levels for worker safety. All such deviations from full selectivity will be designed by, and reviewed by, registered professional engineers.

Enforcing Agency —

University of Michigan Architecture, Engineering and Construction.

Web site for Part 8:

http://dmbinternet.state.mi.us/DMB/ORRDocs/AdminCode/1677_2017-001LR_AdminCode.pdf

NFPA 72 – National Fire Alarm Code (2013 edition)

The 2010 edition of NFPA 72 is incorporated by reference in the edition of NFPA 101 incorporated by the current State of Michigan Bureau of Fire Services Administrative Rules for New and Existing School, College, and University Fire Safety and Dormitory Fire Safety. The Bureau of Fire Services allows the use of new versions of NFPA 72 with some limitations. Contact the Bureau of Fire Services for specifics

Enforcing Agency —

Project jurisdiction NFPA 101:

State of Michigan Department of Licensing and Regulatory Affairs

Bureau of Fire Services, Plan Review/Fire Safety

300 N. Washington Square

Lansing, MI. 48913

(517) 241-8847



By local rule, smoke and heat detectors are not required above suspended ceilings.

Enforcing Agency —

Project jurisdiction MBC: University of Michigan Architecture, Engineering and Construction

Guide for the Care and Use of Laboratory Animals 8th Edition 2011 (effective January 1, 2012) promulgated by United States Department of Health and Human Services. Regulations of the Federal Animal Welfare Act 9, CFR Parts 1, 2 and 3.

Enforcing Agency —

University of Michigan Unit for Laboratory Animal Medicine.

University of Michigan Environment, Health & Safety.

Web site for the Guide for the Care and Use of Laboratory Animals 8th edition 2011:

<http://grants.nih.gov/grants/olaw/Guide-for-the-Care-and-Use-of-Laboratory-Animals.pdf>

Web site for Federal Animal Welfare Act 9 CFR:

Parts 1, 2, and 3: <https://www.nal.usda.gov/awic/final-rules-animal-welfare-9-cfr-parts-1-2-and-3>

Refer to “Animal Facilities Design Criteria and Special Requirements” contained in The University of Michigan Design Guidelines.

State of Michigan Rules for Soil Erosion & Sedimentation Control Promulgated by the State of Michigan Department of Environmental Quality (MDEQ) Soil Erosion and Sedimentation Control Part 91 of Public Acts 451 of 1994 as amended. The University of Michigan Environment, Health, and Safety (EHS) department is approved by the MDEQ as an ‘Authorized Public Agency’ to enforce the soil erosion and sedimentation control on University of Michigan property. Refer to University of Michigan Design Guidelines Section 31 - Soil Erosion and Sedimentation Control for additional requirements.

Enforcing Agency —

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Corresponding web site—

Soil Erosion and Sedimentation Control: <http://ehs.umich.edu/construction-projects/environmental-considerations/erosion-management/>

**State of Michigan Issued NPDES Permit**

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq; the "Federal Act"), Michigan Act 451, Public Acts of 1994, as amended (the "Michigan Act"), Parts 31 and 41, and Michigan Executive Orders 1991-31, 1995-4 and 1995-18, The University of Michigan (U-M) is authorized to discharge storm water from the municipal separate storm sewer system (MS4) operated by the U-M in various locations in Michigan, and is designated as an MS4 in accordance with the conditions set forth in U-M's National Pollutant Discharge Elimination System (NPDES) permit with the State of Michigan, Department of Environmental Quality (MDEQ).

Per the NPDES permit, projects that disturb greater than one acre of land must meet certain post-construction storm water management requirements. Contact EHS EP3 as soon as possible, at the beginning of a project, to discuss this requirement.

Please note that the City of Ann Arbor may also require post-construction storm water management, above what is required by the U-M's NPDES permit, including areas disturbing less than 1 acre. This will be between the City and the Project, with input and coordination from EHS and the U-M Planner.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Corresponding Guideline —

Stormwater Management – Post-Construction Requirements:

<http://ehs.umich.edu/construction-projects/environmental-considerations/storm-water-management/>

Enforcing Agency—

Michigan Department of Environmental Quality
Jackson State Office Building
301 E. Louis Glick Highway
4th Floor, Jackson, MI 49201
517-780-7929

MDEQ Web Site: http://www.michigan.gov/deq/0,4561,7-135-3313_3682_3716---,00.html

State of Michigan Contaminated Soil and Groundwater

In compliance with Michigan Public Act 451, Part 201 (Environmental Remediation) owners/operators of properties where soil or groundwater is present above Part 201 Generic Residential Criteria have due care requirements. Due Care requirements include undertaking measures, as necessary, to prevent exacerbation of existing contamination, undertaking response activities to mitigate unacceptable exposures to contamination, taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party, complying with any land use or resource use restrictions, and not impeding with the effectiveness or integrity of such restrictions.



Contact EHS EP3 as soon as possible, at the beginning of a project, to discuss any known contamination, recommended assessments, scheduling, compliance requirements, and budget development to evaluate possible contamination or manage known contamination.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agency—

Michigan Department of Environmental Quality
Remediation and Redevelopment Division
P.O. Box 30426
Lansing, MI 48909-7926
517-335-6843

MDEQ Web Site: http://www.michigan.gov/deq/0,4561,7-135-3311_4109---,00.html

State of Michigan Leaking Underground Storage Tanks

In compliance with Michigan Public Act 451, Part 213 (Leaking Underground Storage Tanks) owners/operators of underground storage tanks have requirements during the removal of underground storage tank systems to evaluate if a release to the environment has occurred. Tank removal contractors are typically obtained and managed by U-M EHS.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss any tank removals, recommended assessments, scheduling, compliance requirements, and budget development.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agency—

Michigan Department of Environmental Quality
Remediation and Redevelopment Division
P.O. Box 30033
Lansing, MI 48909
(517) 332-1428

MDEQ Web Site: http://www.michigan.gov/deq/0,1607,7-135-3311_4109_4215---,00.html

**State of Michigan Underground Storage Tanks (UST)**

(Permitting only, commissioning by AEC) In compliance with Michigan Public Act 451, Part 211 (Underground Storage Tank Rules), Michigan Underground Storage Tank Rules, and/or Storage and Handling of Flammable and Combustible Liquids Rules the owners/operators of underground ground storage tanks have requirements for the design, construction, installation, maintenance, and removal of tank systems.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss tank plans, scheduling, compliance requirements, and budget development.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agency—

Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services
Storage Tank Division
P.O. Box 30033
Lansing, MI 48909
(517) 332-1428

MDEQ Web Site: http://www.michigan.gov/lara/0,4601,7-154-35299_42271_4115_4238---,00.html

State of Michigan Aboveground Storage Tanks (AST)

(Permitting only, commissioning by AEC) In compliance with Michigan Public Act 207, Parts 2 through 5 of the rules the Aboveground Storage Tank (AST) Program regulates the following:

- storage and handling of flammable and combustible liquids with flash point less than 200 degrees Fahrenheit.
- storage and handling of liquefied petroleum gases
- compressed natural gas vehicular systems

The regulatory authority is from the Fire Prevention Code, 1941 PA 207, as amended.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss tank plans, scheduling, compliance requirements, and budget development.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

**Enforcing Agency—**

Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services
Storage Tank Division
P.O. Box 30033
Lansing, MI 48909
(517) 332-1428

Michigan AST Web Site http://www.michigan.gov/lara/0,4601,7-154-35299_42271_4115_4237---.00.html

Emergency Generators

(Permitting only, commissioning by AEC) Pending on size, fuel usage, status, reciprocating internal combustion engines are regulated per the Environmental Protection Agency and MDEQ. There are design requirements, potential permit requirements, maintenance/ recordkeeping requirements and initial notification that need to be met and submitted within 120 days of startup.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss plans, scheduling, compliance requirements, and budget development.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agencies—

Michigan Department of Environmental Quality
Air Quality Division
525 West Allegan Street
Lansing, MI 48909
Environmental Protection Agency
Air and Radiation Division
Chicago, IL

MDEQ Website (RICE): http://www.michigan.gov/deq/0,4561,7-135-3310_70310_70317-254013--.00.html

Boilers

(Air permitting only, commissioning by AEC) Pending on size, fuel usage, status, boilers are regulated per the Environmental Protection Agency and MDEQ. There are design requirements, potential permit requirements, maintenance/ recordkeeping requirements and initial notifications that need to be met and submitted within 15 days of startup.

Contact EHS EP3 as soon as possible at the beginning of the project to discuss plans, schedules, and compliance requirements.



Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agencies—

Michigan Department of Environmental Quality
Air Quality Division
525 West Allegan Street
Lansing, MI 48909

MDEQ Website: <http://www.michigan.gov/deq/0,4561,7-135-3304-159354--,00.html>

Environmental Protection Agency
Air and Radiation Division
Chicago, IL

EPA Boiler Website: <https://www.epa.gov/boilers>

Chemical Storage

Per the MI Part 5 Rules, Spillage of Oil and Polluting Materials, 1994 PA 451, R 324.2001 to R 324.2009, requires secondary containment and Pollution Incident Prevention Plan if bulk salt, chemical, or oil storage exceeds the threshold management quantity.
Contact EHS EP3 as soon as possible at the beginning of a project to discuss plans, scheduling, compliance requirements, and budget development.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agencies—

Michigan Department of Environmental Quality
Water Bureau
Jackson District Office
301 E. Louis Glick Highway
Jackson, MI 49201

MDEQ Website: http://www.michigan.gov/deq/0,4561,7-135-3313_23420---,00.html

**Building Standards for University of Michigan construction that are required for subsequent licensing of the facility****State of Michigan Department of Licensing and Regulatory Affairs, Division of Health Facilities and Services**

The Health Facilities Engineering Section (HFES) Facility Guidelines Institute (FGI) 2018 edition of Guidelines for Design & Construction of Hospitals; Outpatient Facilities; and Residential Health Care and Support Facilities in Michigan. Including all the included referenced codes and standards as listed within these rules, including but not limited to NFPA 99, NFPA 101, and other NFPA and ASHRAE standards. This document for administrative rules are posted at:

https://dtmb.state.mi.us/ARS_Public/AdminCode/DeptBureauAdminCode?Department=Licensing%20and%20Regulatory%20Affairs&Bureau=Bureau%20of%20Community%20and%20Health%20Systems

State of Michigan HFES website:

https://www.michigan.gov/lara/0,4601,7-154-89334_63294_79842_80018---,00.html

All areas used by inpatients, and all areas within state jurisdiction, are to be designed to comply with HFES regulations. In general, all areas used by outpatients that fall outside HFES jurisdiction are to be designed to comply with HFES regulations. Any areas of noncompliance should be reviewed and approved by the Michigan Medicine (MM) Design Manager.

HFES is the AHJ over all Inpatient Health Care Occupancies (defined as “Health Care Facilities” by NFPA and “I-2” by MBC. Further they are the AHJ over some “Ambulatory Health Care” Occupancies, including Outpatient Surgery and Outpatient Dialysis. The occupancy classification of “Ambulatory Health Care” needs to be carefully reviewed with the MM Design Manager. Not all AHC occupancies are subject state and federal regulatory authorities.

For assistance in determining which projects are subject to HFES plan review and inspection, MM has developed a series of spreadsheets available on the MM FPD website at MBFS HFES Plan Review Guideline. This has been reviewed by HFES, however it is not intended to replace professional judgment. Jurisdiction should be verified with HFES directly when it is not clear. Affirm decisions with the MM Design Manager.

Enforcing Agency—

Michigan Department of Licensing and Regulatory Affairs
Health Facilities Division, Health Facilities Engineering Section
Ottawa Building – 1st Floor
611 W. Ottawa Street
Lansing, MI 48933
Office #: 517-241-3408

HFES Website: <http://www.michigan.gov/hfes>

Biosafety in Microbiological and Biomedical Laboratories (BMBL)

An advisory document recommending best practices for the safe conduct of work in biomedical and clinical laboratories from a biosafety perspective. It is used for building design standards, grant, and contract requirements for laboratories that handle infectious microorganisms and hazardous biological materials or animals. Each biosafety laboratory must, at a minimum, meet the requirements for laboratory facilities as stated in the BMBL.

**Coordinating Agency—**

University of Michigan EHS
Biosafety
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 647-3133

Coordinating Agency—

Center for Disease Control and Prevention
1600 Clifton Road
Atlanta, GA 30329-4027
(800)232-4636

Web Site: <https://www.cdc.gov/biosafety/publications/bmb15/BMBL.pdf>

Center for Medicare and Medicaid Services (CMS)

As defined at <http://www.cms.gov/>. Compliance with NFPA 101, Life Safety Code, currently enforced version (2012 as of July 5, 2016) is required.

CMS is a federal agency that administers Medicare, works with states on Medicaid. It surveys and certifies Health Care facilities and labs for reimbursement, including Outpatient Surgery and Outpatient Dialysis. CMS also issues Survey and Certification memos and clarifications, including “Categorical Waivers” that the facility may choose to adopt. CMS requires facilities built before 2016 to comply with “Existing Health Care” and “Existing Ambulatory Health Care” chapters of NFPA 101. Facilities built after 2016 and all renovations are to comply with “New Health Care” and “New Ambulatory Health Care.”

The Joint Commission Requirements for Accreditation of Health Care Facilities

As defined at <http://www.jointcommission.org/>. The Joint Commission (TJC) is the largest and most recognized accreditation organization that the state and CMS recognize for licensure and reimbursement. TJC surveys to the codes adopted by CMS and has established requirements based on CMS standards. MM Accreditation staff may participate in design reviews of MM clinical projects to ensure compliance with TJC and CMS requirements.

State of Michigan Department of Licensing and Regulatory Affairs, MIOSHA--Radiation Safety Section / United States Nuclear Regulatory Commission" All projects which include ionizing radiation-producing equipment or devices used for clinical or research use. All electronic equipment producing ionizing radiation must be registered with the Michigan Department of Licensing and Regulatory Affairs through EHS/Radiation Safety Service prior to initial use. Irradiators or other similar devices using or producing radioactive materials for clinical or research use will require licensing by the U.S. Nuclear Regulatory Commission in advance. Approvals for registration or licensing may also require submitting shielding construction plans for prior approval by MIOSHA--Radiation Safety Section or the U.S. Nuclear Regulatory Commission depending on the type of equipment used and nature of the facility. Contact UM EHS / Radiation Safety Service for assessment.

**Enforcing Agency—**

Radiation Safety Section

Michigan Occupational Safety and Health Administration (MIOSHA)

Michigan Department of Licensing and Regulatory Affairs

525 W. Allegan Street

P.O. Box 30643

Lansing, Michigan 48933

Phone: (517) 284-7820

Website: http://www.michigan.gov/lara/0,4601,7-154-11407_35791---,00.html**University of Michigan Leased Health Care Facilities**

MM leases many facilities which are subject to local municipal jurisdiction, in addition to MM Design Guidelines and Preferred Manufacturer's List (PML). For more information on ownership status and physical addresses for all buildings, please consult with the MM Design Manager.

Website: <http://www.med.umich.edu/facilities/plan/vn/index.html>**Toxic and/or Hazardous Materials at University of Michigan Health Care Facilities**

Contact MM Safety Management Services for projects involving toxic and / or hazardous materials.

Coordinating Agency —

Michigan House

2301 Commonwealth Blvd Floor 2

SPC 2945

Ann Arbor, MI 48105

(734) 764-4427

Email: safetymgmt-safety@med.umich.edu**Aviation, Pharmacy, Psychology, and Pathology, etc.**

Consult corresponding clinical department for information on additional regulatory agencies including but not limited to the list above.

State of Michigan Rules for Construction or Renovation of Food Service Facilities

Promulgated by the State of Michigan Department of Agriculture and Rural Development (Food and Dairy Division). Act 92, [Food Law](#) which incorporates by reference chapters 1 through 8 of the [2009 Michigan Modified Food and Drug Administration Food Code](#). Visit the University of Michigan Department of Environment, Health & Safety website <http://ehs.umich.edu/construction-projects/food-service-facilities/> for instruction sheet information and a copy of the Plan Review Packet and Worksheet that must be completed prior to starting a project. The University of Michigan Environment, Health & Safety (EHS) Department is the enforcing agency with authorization provided by the Washtenaw County Environmental Health Department.

Enforcing Agency—

University of Michigan EHS

Operational Health and Safety

1239 Kipke Dr.

Ann Arbor, MI. 48109-1010

(734) 647-1142

**State of Michigan Rules for Construction or Renovation of Swimming Pools**

Promulgated by the State of Michigan Department of Environmental Quality (Water Division). Michigan's Public Health Code, [Public Act 368 of 1978, Part 125](#). Contact University of Michigan Department of Environment, Health & Safety for information. The University of Michigan Environment, Health & Safety (EHS) Department is the enforcing agency with authorization provided by the Washtenaw County Environmental Health Department.

Enforcing Agency—

University of Michigan EHS
Operational Health and Safety
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 647-1142

Also see 15010 “Basic Mechanical Requirements” for additional codes and standards applicable to mechanical work on University projects.

State of Michigan Department of Environmental Quality (MDEQ) (Filed many different dates)

Contact U of M Department of Environment, Health & Safety for information on environmental regulatory requirements. All project specific communication with the enforcing agency must be through or coordinated with the U of M Environment, Health & Safety Department.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 936-1920

EHS Web Site: <http://ehs.umich.edu/>

- Environmental Protection: <http://ehs.umich.edu/construction-projects/environmental-considerations/>
- Air permitting (generators, boilers, refrigeration units): <http://ehs.umich.edu/environmental/air/>
- Power washing and discharge to ground: <http://ehs.umich.edu/environmental/water/powerwashing/>
- Remediation: <http://ehs.umich.edu/construction-projects/environmental-considerations/remediation/>
- Storage Tanks: <http://ehs.umich.edu/construction-projects/environmental-considerations/storage-tanks/>
- Threatened and Endangered Species: <http://ehs.umich.edu/construction-projects/environmental-considerations/endangered-species/>
- Wetlands: <http://ehs.umich.edu/environmental/wetlands/>

Enforcing Agency—

Michigan Department of Environmental Quality
525 West Allegan Street



P.O. Box 30473
Lansing, MI 48909-7973
(800) 662-9278

MDEQ Web Site: <http://www.michigan.gov/deq>

United States Environmental Protection Agency (USEPA)

(Filed many different dates), which is Title 40 of the Code Federal Regulations. Contact U-M Department of Environment, Health & Safety for information on environmental regulatory requirements. All project specific communication with the enforcing agency must be through or coordinated with the U of M Environment, Health & Safety department.

Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting (EP)
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 936-1920

EHS Web Site: <http://ehs.umich.edu/>

Enforcing Agency—
United States Environmental Protection Agency
Region 5 (IL, IN, MI, MN, OH, WI)
77 West Jackson Boulevard
Chicago, IL 60604-3507
(312) 353-2000

USEPA Web Site: <http://www.epa.gov/>

Federal Aviation Administration (FAA)

Any construction or alteration projects must provide notice to FAA if they meet certain criteria. All projects that meet the criteria noted in FAA Title 14: Aeronautics and Space, Part 77- Safe, Efficient Use, and Preservation of the Navigable Airspace must file notice with FAA at least 45 days prior to start date of proposed construction or alteration.

Enforcing Agency—
U.S. Department of Transportation
Federal Aviation Administration
800 Independence Avenue, SW
Washington, DC 20591
(866) 835-5322

FAA Web Site: <http://www.faa.gov/>

OE/AAA Filing Web Site: <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

**University of Michigan Buildings
That Contain Instructional Space**

(Based on M-Pathways GQL database for rooms with type code 110 or 210)

**BLDG BLDG
NO NAME**

5179 202 SOUTH THAYER
0333 400 NORTH INGALLS BUILDING
0879 555 SOUTH FOREST BUILDING
0188 1100 NORTH UNIVERSITY BUILDING
5037 A. A. TAUBMAN BIOMEDICAL SCIENCE RESEARCH BUILDING (Auditorium)*
0421 AERO ENG - WIND TUNNEL LAB (FA/FS only)
0425 AERO ENG - PLASMA RESEARCH (FA/FS only)
0422 AERO ENG - PROPULSION LAB (FA/FS only)
0423 AERO ENG - PUMPING STATION (FA/FS only)
0168 ANIMAL RESEARCH FACILITY
0206 ANGELL HALL ADDITION-AUDITORIUMS
0175 ANGELL HALL ADDITION-HAVEN HALL
0197 ANGELL HALL ADDITION-MASON HALL
0152 ANGELL JAMES B HALL & TISCH HALL
0831 ARGUS II
0432 ART & ARCHITECTURE BUILDING
0395 BAGNOUD, FRANCOIS-XAVIER BUILDING
5092 BESTER, BOB & BETTY BUILDING
5169 BIOLOGICAL SCIENCE BUILDING*
4016 BIOLOGICAL ST BLANCHARD
4010 BIOLOGICAL ST CORT LABORATORY
4018 BIOLOGICAL ST CREASER LABORATORY
4005 BIOLOGICAL ST FOREST LABORATORY
4011 BIOLOGICAL ST HOUGHTON LAB
4013 BIOLOGICAL ST HUNGERFORD LAB
4037 BIOLOGICAL ST LECTURE HALL
4019 BIOLOGICAL ST NEWCOMBE LAB
4015 BIOLOGICAL ST PETTINGILL LAB
4017 BIOLOGICAL ST REIGHARD LAB
4039 BIOLOGICAL ST SPARROW LABORATORY
4096 BIOLOGICAL ST STOCKARD LABORATORY
4012 BIOLOGICAL ST WELCH LABORATORY
0407 BROWN, G G LABORATORY
0210 BUHL RES CEN FOR HUMAN GENETICS
0155 BURTON MEMORIAL TOWER
5451 CENTRAL CAMPUS CLASSROOM BUILDING
0226 CENTRAL CAMPUS REC BLD&BELL POOL
0158 CHEMISTRY & DOW W H LAB
0443 CHRYSLER CNTR CONT ENGINEER ED
0441 CLIMATE AND SPACE RESEARCH BUILDING
0403 COOLEY, MORTIMER E MEMORIAL
0189 DANA, SAMUEL TRASK BUILDING
0225 DANCE BUILDING
1012 DB ADMIN & STUDENT ACTIVITIES BLDG
1020 DEARBORN CASL ANNEX & FAIRLANE APT
1080 DEARBORN COL ARTS SCIENCE & LETTERS
8049 DEARBORN COMMERCE PARK
1011 DEARBORN COMPUTER & INFOR SCIENCE
1013 DEARBORN ENGINEERING LAB BLDG
1076 DB ENVIRONMENTAL INTERPRET CTR
5128 DB FAIRLANE CENTER - NORTH
5128 DEARBORN FAIRLANE CENTER - SOUTH
1017 DB FIELD HOUSE AND WELLNESS CENTER
1065 DEARBORN MARDIGIAN LIBRARY
1078 DB PROFESSIONAL EDUCATION CENTER
1079 DEARBORN SCI BLDG-COMPUTING WING
1009 DB SCIENCE, CLASSROOM & ADMIN.

**BLDG BLDG
NO NAME**

1077 DEARBORN SOCIAL SCIENCES BUILDING
1060 DEARBORN UNIVERSITY CENTER
0162 DENTAL AND W K KELLOGG INSTITUTE*
0447 DOW, HERBERT H BUILDING
0166 EAST HALL
0054 EAST QUADRANGLE
0221 EDUCATION, SCHOOL OF
0448 ELECTRICAL ENG & COMPUTER SCI BLDG
0435 ENGINEERING RES BLDG I (FA only)*
0436 ENGINEERING RESEARCH BUILDING II
0414 ENVIRONMENTAL & WATER RES ENG BL
0733 FISHER RAY BASEBALL STADIUM
1651 FLINT HARRISON PARKING RAMP*
1650 FLINT DAVID FRENCH HALL
1649 FLINT FRANCES WILLSON TOMPSON LIBRARY
5017 FLINT NORTHBANK CENTER
1664 FLINT UNIV PAVILION ANNEX
1630 FLINT WM R MURCHIE SCIENCE BLDG
1694 FLINT WILLIAM S WHITE BUILDING
0234 FRANCIS, THOMAS JR PUBLIC HEALTH
0437 GERSTACKER, CARL A BLDG (FA only)*
0424 GORGUZE FAMILY LABORATORY
0897 HEALTH MANAGEMENT RESEARCH
0179 HUTCHINS HALL (All areas except Aikens Commons & Café Room 150)*
0429 INDUSTRIAL & OPERATIONS ENGIN BLDG
5370 JEFF T. BLAU HALL (B, 1, 2, 3, & 5 Flrs)*
5235 JEFFRIES HALL
0324 KELLOGG, W K EYE CENTER
0851 KINESIOLOGY BUILDING (Stair S01, Rooms 1100, 2100, & 3100)*
0211 KRAUS, EDWARD HENRY BUILDING
0137 KRESGE BUSINESS ADMIN LIBRARY (B, 1, & 2 Flrs)*
0400 LAY, WALTER E AUTOMOTIVE LAB
0150 LITERATURE SCIENCE AND THE ARTS (3rd & 4th Flrs)*
0188 LITTLE, CLARENCE COOK SCIENCE BLD
0059 LLOYD, ALICE C HALL
0154 LORCH HALL
8049 LP BUSINESS ADMIN 15041 COMMERCE
0406 LURIE, ANN AND ROBERT H BIOMEDICAL ENG
0982 MATTHAEI BOT GDNS RESEARCH-ADMIN
0190 MEDICAL SCIENCE UNIT I (A & B wings)*
0200 MEDICAL SCIENCE UNIT II
0207 MODERN LANGUAGES BUILDING
0440 MOORE, EARL V BLDG
0061 MOSHER-JORDAN HALL*
0151 MUSEUM OF ART (Auditorium & Stair S5)*
0415 NAVAL ARCH & MARINE ENGINEERING
5266 NORTH CAMPUS RESEARCH COMPLEX BLDG 32 (Auditorium & Lobby)*
5177 NORTH QUAD COMPLEX (Level 1 throughout & Level 2 North Tower)*
5047 PALMER DRIVE COMMONS (SW end of 2nd floor)*
0890 PERRY BUILDING (G300)*
0442 PIERPONT COMMONS (Partial basement level)*
0180 POWER CENTER FOR PERFORMING ARTS
0897 PUBLIC POLICY ANNEX
0208 RANDALL, HARRISON M LABORATORY

(*)* Indicates compartment of jurisdiction. Note egress from compartment; fire alarm & fire suppression for entire bldg are under BFS.

**University of Michigan Buildings
That Contain Instructional Space (Continued)**

(Based on M-Pathways GQL database for rooms with type code 110 or 210)

BLDG BLDG**NO NAME**

0416 RADIATION SCIENCES LAB 1 (FA/FS only)
 0417 RADIATION SCIENCES LAB 2 (FA/FS only)
 5188 ROSS SCHOOL OF BUSINESS (B, 1, 2, & 3 Flrs)*
 5120 ROSS, STEPHEN M ACADEMIC CENTER (Rm 2150)*
 0193 RUTHVEN, ALEXANDER G MUSEUMS BLDG (FA/FS only)
 0219 SCHOOL OF SOCIAL WORK BUILDING
 5347 SCHOOL OF NURSING NEW BUILDING
 5224 STAMPS AUDITORIUM
 0445 STEARNS, FREDERICK BUILDING
 0216 TAPPAN HALL

BLDG BLDG**NO NAME**

0209 TAUBMAN, A A. HEALTH SCIENCES LIBRARY
 5413 TROTTER WILLIAM MONROE MULTICULTURAL CENTER*
 5046 UNDERGRADUATE SCIENCE BLDG
 0204 VAUGHAN, H F PUBLIC HLTH BL(1, 2& part of 3 Flrs)*
 5059 WALGREEN, CHARLES RJ DRAMA CENTER
 5101 WEILL HALL, JOAN & SANFORD (1st & 2nd Flrs)*
 0167 WEST HALL
 0135 WYLY, SAM HALL
 0165 WEISER HALL

**University of Michigan Buildings
That Contain Instructional Space and Are Rental Properties****BLDG BLDG****NO NAME**

5403 FLINT BEECHER NEFF CENTER
 5343 FLINT RIVERFRONT CENTER
 5360 FLINT URBAN ALTERNATIVES HOUSE
 5382 WOODWARD GARDENS

**University of Michigan Buildings
That Contain Dormitory Space**

(Based M-Pathways GQL database for rooms with type code 910, 919, 920, and 935)

BLDG BLDG**NO NAME**

0510 BAITS, VERA I EATON HOUSE
 0511 BAITS, VERA I LEE HOUSE
 0512 BAITS, VERA I PARKER HOUSE
 0513 BAITS, VERA I SMITH HOUSE
 0514 BAITS, VERA I STANLEY HOUSE
 0515 BAITS, VERA II COMAN HOUSE
 0516 BAITS, VERA II CONGER HOUSE
 0517 BAITS, VERA II CROSS HOUSE
 0518 BAITS, VERA II THIEME HOUSE
 0519 BAITS, VERA II ZIWET HOUSE
 0051 BARBOUR, BETSY HOUSE
 0555 BURSLEY HALL
 0120 CAMBRIDGE HOUSE (Compartment w/in MICHIGAN UNION)*
 0109 COOK, JOHN P LAW QUADRANGLE
 0052 COOK, MARTHA RESIDENCE
 0053 COUZENS HALL
 0054 EAST QUADRANGLE
 0055 FLETCHER HALL

BLDG BLDG**NO NAME**

0057 HENDERSON, MARY B HOUSE
 0108 LAWYERS CLUB*
 0059 LLOYD ALICE C HALL
 0060 MARKLEY, MARY B HALL
 0061 MOSHER-JORDAN HALL*
 0062 NEWBERRY RESIDENCE
 5177 NORTH QUAD COMPLEX (North Tower levels 3 - 10)*
 0040 OH GODDARD HALL
 0042 OH ADELIA CHEEVER RESIDENCE
 0043 OH GEDDES RESIDENCE
 0044 OH JULIA E EMANUEL RESIDENCE
 0046 OH L H SEELEY HALL
 0045 OH PAMELA NOBLE RESIDENCE
 0041 OH VANDENBERG HALL
 0063 SOUTH QUADRANGLE
 0064 STOCKWELL HALL
 0066 WEST QUADRANGLE

(*) Indicates compartment of jurisdiction. Note egress from compartment; fire alarm & fire suppression for entire bldg are under BFS.



University of Michigan Buildings That Contain Child Care Space

(Based M-Pathways GQL database for rooms with type code 640, and 645)

BLDG BLDG**NO NAME**

5244 DEARBORN CHILD DEVELOPMENT CENTER
1047 DEARBORN KINDERGARDEN MODULE
5018 NCRC (N Campus Research Complex) B075 CHILDREN'S CENTER
0600 NORTHWOOD COMMUNITY CENTER
5240 TOWSLEY CHILDREN'S HOUSE
0390 UNIVERSITY HOSPITALS CHILD CARE CENTER

University of Michigan Buildings That Are Inpatient Health Care Facilities

BLDG BLDG**NO NAME**

5109 SAMUEL AND JEAN FRANKEL CARDIOVASCULAR CENTER (CVC)
0313 CONNECTOR between UH and MOTT adjacent to TOWSLEY
0312 UNIVERSITY HOSPITAL SOUTH UNIT 2 (old Mott)
0314 UNIVERSITY HOSPITAL SOUTH UNIT 3 (old Holden)
0318 UNIVERSITY HOSPITAL SOUTH UNIT 4 (old MCHC)
5173 C.S. MOTT CHILDREN'S AND VON VOIGTLANDER WOMEN'S HOSPITAL
0316 UNIVERSITY HOSPITAL (UH)

For more detailed boundaries for inpatient facilities and firewall keyplans in all buildings, please consult with MM Design Manager or Michigan Medicine building website..

University of Michigan Buildings That Contain Hospital Outpatient Surgery Departments

BLDG BLDG**NO NAME**

5102 BREHM TOWER (BRM) (Eye Center Expansion) (Fourth Floor)*
5038 EAST ANN ARBOR AMBULATORY SURGERY CENTER
8096 LIVONIA CENTER FOR SPECIALTY CENTER

University of Michigan Buildings That Contain Outpatient Dialysis

BLDG BLDG**NO NAME**

8072 EISENHOWER PARK WEST
8096 LIVONIA CENTER FOR SPECIALTY CENTER

()* Indicates compartment of jurisdiction. Note egress from compartment; fire alarm & fire suppression for entire bldg are under BFS.