

## MBFS/HFES Plan Review Guidelines

Building	MBFS Plan Review	MBFS Fire Alarm Shop Drawing Review	MBFS Fire Suppression Shop Drawing Review	HFES Plan Review	Comments
300 North Ingalls Building	No	No	No	No	
Arbor Lakes	No	No	No	No	
Brehm Level 4	Yes*	Yes	Yes	Yes	
Brehm Level 1, 2, 3, 5, 6, 7, 8, 9, 10, 11	No	Yes	Yes	No	MBFS plan review only if Healthcare Means of Egress is modified - stairs from Level 4.
Briarwood 1, 2, 3, 4, 5, 9, 10	No	No	No	No	
Brighton Center for Specialty Care	Maybe	Yes	Yes	Maybe	Check Life Safety drawings to determine location of the project. Projects in the Ambulatory Health Care Occupancy need to be submitted to MBFS for plan review. Clinical projects in the Hospital Outpatient Surgery Departments (HOPD) must be submitted for plan review, and be inspected by HFES.
Cancer Center (Rogel)	No	No	No	No	MBFS plan review only if Healthcare Means of Egress is modified - corridor 2375Z, 2370Z and stair 2200x.
Chelsea Family Practice	No	No	No	No	
Child Care Center	Yes*	Yes	Yes	No	
Children's and Women's (Von Voigtlander) Level 1, Level 2 SC 2.0, Level 3 SC 3.0, Level 4 SC 4.0, Level 4a, Level 5, Level 6a, 6b, Level 7 SC 7.0, Level 8 SC 8.0,	No	Yes	Yes	No	

\*If Yes, check **Table 1: Health Care Occupancy and Michigan Bureau of Fire Services Architectural Health Care Plan Review Requirements** to determine if the rehabilitation scope falls into a category that requires MBFS Plan Review.

## MBFS/HFES Plan Review Guidelines

Building	MBFS Plan Review	MBFS Fire Alarm Shop Drawing Review	MBFS Fire Suppression Shop Drawing Review	HFES Plan Review	Comments
Level 9 SC 9.0, Level 13					
Children’s and Women’s, (Von Voigtlander) Level 2 SC 2.1-4, Level 3 3.1-3.3, Level 4 SC 4.1-4.6, Level 7 SC 7.1-7.4, Level 8 SC 8.1-8.4, Level 9 SC 9.1-9.5, Level 10, Level 11, Level 12	Yes*	Yes	Yes	Maybe	Clinical Health Care projects must be submitted for plan review, and be inspected by HFES.
CVC Level B1, 1, 2A, 3, 4, 5	Yes*	Yes	Yes	Maybe	Clinical Health Care projects must be submitted for plan review, and be inspected by HFES.
CVC Level B2, 2	No	Yes	Yes	No	MBFS plan review only if Healthcare Means of Egress is modified (stairs).
EAA Ambulatory Surgical Center	Yes*	Yes	Yes	Yes	
EAA Health and Geriatrics Center	No	No	No	No	
Eisenhower Corporate Park West	No	No	No	Maybe	Projects in the Dialysis unit must be submitted for plan review, and be inspected by HFES.
Livonia Center for Specialty Care	Maybe	Yes	Yes	Maybe	Check Life Safety drawings to determine location of the project. Projects in the Hospital Outpatient Surgery Departments (HOPD) need to be submitted to MBFS for plan review. Clinical projects in the Hospital Outpatient Surgery Departments (HOPD) or Dialysis units must be submitted for plan review, and be inspected by HFES.

\*If Yes, check **Table 1: Health Care Occupancy and Michigan Bureau of Fire Services Architectural Health Care Plan Review Requirements** to determine if the rehabilitation scope falls into a category that requires MBFS Plan Review.

## MBFS/HFES Plan Review Guidelines

Building	MBFS Plan Review	MBFS Fire Alarm Shop Drawing Review	MBFS Fire Suppression Shop Drawing Review	HFES Plan Review	Comments
Medical Professional Building	No	No	No	No	
Med Inn	No	No	No	No	MBFS plan review only if Healthcare Means of Egress is modified - level 2 Corridor C221Z.
Modular Accelerator Building	No	Yes	No	No	
NCAC	No	No	No	No	
NCASB	No	No	No	No	
Rachel Upjohn Building	No	No	No	No	
Taubman Health Center	No	No	Yes	No	MBFS plan review only if Healthcare Means of Egress is modified - corridor 1050Z, 2025Z, stair.
UHS1 - Women's all floors	No	No	No	No	
UHS Units 2, 3, 4 <b>Floors 1, 7, 8</b>	No	Yes	Yes	No	MBFS plan review only if Healthcare Means of Egress is modified - corridors F3535Z, F3640Z, F3500Z, F3515Z, F3525Z, stairs.
UHS Units 2, 3, 4 - Floors 2, 3, 4, 5, 6	Maybe	Yes	Yes	Maybe	Check Life Safety drawings to determine location of the project. Projects in the business occupancy (black cross-hatched) do not need to be submitted for MBFS plan review unless they impact Health Care Means of Egress. Clinical Health Care projects must be submitted for plan review, and be inspected by HFES.

\*If Yes, check **Table 1: Health Care Occupancy and Michigan Bureau of Fire Services Architectural Health Care Plan Review Requirements** to determine if the rehabilitation scope falls into a category that requires MBFS Plan Review.

## MBFS/HFES Plan Review Guidelines

Building	MBFS Plan Review	MBFS Fire Alarm Shop Drawing Review	MBFS Fire Suppression Shop Drawing Review	HFES Plan Review	Comments
University Hospital	Yes*	Yes	Yes	Maybe	Clinical Health Care projects must be submitted for plan review, and be inspected by HFES.
West Ann Arbor – Parkland	No	No	No	No	

\*If Yes, check **Table 1: Health Care Occupancy and Michigan Bureau of Fire Services Architectural Health Care Plan Review Requirements** to determine if the rehabilitation scope falls into a category that requires MBFS Plan Review.

November 21, 2019

**Table 1**  
**Health Care Occupancy and Michigan Bureau of Fire Services Architectural Health Care Plan Review Requirements**

NFPA 101, 2012 Chapter 43 Reference and Definition:	Requires MBFS Arch. Plan Review if within Health Care Occupancy?	Comments, exceptions regarding MBFS Architectural Health Care Plan Review:	Michigan Rehabilitation Code for Existing Buildings 2015 Definition	U of M EHS Plan Review Submission Required?
<b>43.2.2.1.1 Repair</b> The patching, restoration, or painting of materials, elements, equipment, or fixtures for the purpose of maintaining such materials, elements, equipment, or fixtures in good or sound condition.	No	1:1 replacement of individual items that have failed: doors, light fixtures, etc. does NOT require architectural plan review.	<b>Section 502 Repair</b> The reconstruction or renewal of any part of an existing building for the purpose of its maintenance or to correct damage. Repairs include the patching or restoration or replacement of damaged materials, elements, equipment or fixtures for the purpose of maintaining such components in good or sound condition with respect to existing loads or performance requirements. Repairs shall comply with the provisions of Chapter 6. Work on nondamaged components that is necessary for the required repair of damaged components shall be considered part of the repair and not be subject to the provisions of Chapter 7, 8, 9, 10 or 11.	No
<b>43.2.2.1.2 Renovation</b> The replacement in kind, strengthening, or upgrading of building elements, materials, equipment, or fixtures, that does not result in a reconfiguration of the building spaces within.	No	Replacement of a large number of light fixtures with different fixtures, replacements of a large number of doors on a floor are examples that DO require MBFS Architectural Plan Review. "Art" light fixtures that do not contribute to the required light levels would NOT require plan review.	<b>Section 503 Alteration-Level 1</b> Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose. Level 1 alternations shall comply with the provisions of Chapter 7.	Yes, if project requires a Certificate of Occupancy or involves more than 25% of light fixtures.

NFPA 101, 2012 Chapter 43 Reference and Definition:	Requires MBFS Arch. Plan Review if within Health Care Occupancy?	Comments, exceptions regarding MBFS Architectural Health Care Plan Review:	Michigan Rehabilitation Code for Existing Buildings 2015 Definition	U of M EHS Plan Review Submission Required?
<p><b>43.2.2.1.3 Modification</b> The reconfiguration of any space; the addition, relocation, or elimination of any door or window; the addition or elimination of load-bearing elements; the reconfiguration or extension of any system; or the installation of any additional equipment.</p>	Yes	(Need to clarify with MBFS the scope of the “extension of any system or the installation of any additional equipment” For example, individual power outlets? Plug and cord equipment?)	<p><b>Section 504 Alternation-Level 2</b> Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment. Comply with provisions of Chapter 7 and 8.</p>	Yes (Individual power receptacles and the like would only require trade inspections)
<p><b>43.2.2.1.4 Reconstruction</b> The reconfiguration of a space that affects an exit or a corridor shared by more than one occupant space; or the reconfiguration of a space such that the rehabilitation work area is not permitted to be occupied because existing means of egress and fire protection systems, or their equivalent, are not in place or continuously maintained.</p>	Yes		<p>NOTE: Michigan Rehab Code does not have an exact match for NFPA “Reconstruction”.</p> <p><b>Section 505 Alteration –Level 3</b> Level 3 alterations apply where the work area exceeds 50 percent of the building area.</p> <p>Level 3 alterations shall comply with the provisions of Chapters 7 and 8 for Level 1 and 2 alterations, respectively, as well as the provisions of Chapter 9.</p>	Yes
<p><b>43.2.2.1.5 Change of Use</b> A change in the purpose or level of activity within a structure that involves a change in application of the requirements of the <i>Code</i>.</p>	Yes	Changing the use of existing room(s) or space(s) without construction, that trigger changes required by NFPA 101 DO require Architectural plan review. Examples include fire or smoke barriers being created or removed; fire alarm and/or fire suppression changes triggered by change of use.	NOTE: Michigan Rehab Code does not have an exact match for NFPA “Change of Use”. Refer to “Change of Occupancy” below.	Yes

NFPA 101, 2012 Chapter 43 Reference and Definition:	Requires MBFS Arch. Plan Review if within Health Care Occupancy?	Comments, exceptions regarding MBFS Architectural Health Care Plan Review:	Michigan Rehabilitation Code for Existing Buildings 2015 Definition	U of M EHS Plan Review Submission Required?
<p><b>43.2.2.1.6</b>  <b>Change of Occupancy Classification</b>  The change in the occupancy classification of a structure or portion of a structure.</p>	Yes	Moving of occupancy separation barriers to change the occupancy type, such as from Health Care to Business (MBC occupancy type I-2 to B) DO require architectural plan review	<p><b>Section 506</b>  <b>Change of Occupancy</b>  A change in the use of the building or a portion of a building. A change of occupancy shall include any change of occupancy classification, any change from one group to another group within an occupancy classification or any change in use within a group for a specific occupancy classification.  Changes of occupancy shall comply with the provisions of Chapter 10.</p>	Yes
<p><b>43.2.2.1.7</b>  <b>Addition</b>  An increase in the building area, aggregate floor area, building height, or number of stories of a structure.</p>	Yes		<p><b>Section 507</b>  <b>Addition</b>  An extension or increase in floor area, number of stories, or height of a building or structure. Additions shall comply with the provisions of Chapter 11.</p>	Yes

**Table 2**  
**Non-Health Care Occupancies and Michigan Bureau of Fire Services Requirements**  
**(Non Health Care Occupancy separated by the appropriate fire rated occupancy barrier)**

<b>Non-Health Care Occupancies separated fire rated occupancy barrier</b>	<b>MBFS Jurisdiction for Architectural Plan Review?</b>	<b>MBFS Jurisdiction for Fire Alarm and/or Fire Suppression Shop Drawing Review?</b>	<b>U of M EHS Plan Review Submission Required?</b>
<b>43.2.2.1.1 Repairs</b>	No	Yes, ONLY IF changes are made to any fire alarm and/or fire suppression system shared with a Health Care Occupancy	No
<b>43.2.2.1.2 Renovations</b>	No	Yes, ONLY IF changes are made to any fire alarm and/or fire suppression system shared with a Health Care Occupancy	Yes, if it requires a Certificate of Occupancy or involves more than 25% of light fixtures
<b>43.2.2.1.3 Modifications</b>	No, unless they impact the Health Care Occupancy Means of Egress (corridors, stairs, doors)	Yes, ONLY IF changes are made to any fire alarm and/or fire suppression system shared with a Health Care Occupancy	Yes (Individual power receptacles and the like would only require trade inspections)
<b>43.2.2.1.4 Reconstruction</b>	No, unless they impact the Health Care Occupancy Means of Egress (corridors, stairs, doors)	Yes, ONLY IF changes are made to any fire alarm and/or fire suppression system shared with a Health Care Occupancy	Yes
<b>43.2.2.1.5 Change of Use</b>	No	Yes, ONLY IF changes are made to any fire alarm and/or fire suppression system shared with a Health Care Occupancy	Yes
<b>43.2.2.1.6 Change of Occupancy Classification</b>	No, unless the occupancy changes to one under MBFS Jurisdiction: Health Care, Hospital Outpatient Surgery Departments (HOPD), Educational, etc.	Yes, ONLY IF changes are made to any fire alarm and/or fire suppression system shared with a Health Care Occupancy  NOTE: Hospital Outpatient Surgery Departments (HOPD) are Ambulatory Health Care Occupancy. Not all Ambulatory Health Care Occupancies are under MBFS Jurisdiction, for example freestanding outpatient Medical Procedure Units. Outpatient Dialysis is under Michigan HFES jurisdiction for Life Safety.	Yes



<b>Non-Health Care Occupancies separated fire rated occupancy barrier</b>	<b>MBFS Jurisdiction for Architectural Plan Review?</b>	<b>MBFS Jurisdiction for Fire Alarm and/or Fire Suppression Shop Drawing Review?</b>	<b>U of M EHS Plan Review Submission Required?</b>
<b>43.2.2.1.7 Addition</b>	Yes, if the addition occupancy falls under MBFS Jurisdiction, it impacts the means of egress of occupancy under MBFS Jurisdiction and/or if it changes the construction type of the building	Yes, if the system is shared with a Health Care or other MBFS jurisdiction Occupancy	Yes
<b>Non-Health Care Occupancy means of egress changes?</b>	No, unless they impact the Health Care Occupancy Means of Egress (corridors, stairs, doors)		Yes

**Table 3**  
**Fire Suppression and Fire Alarm Modifications and**  
**Michigan Bureau of Fire Services Requirements**

Scope of Work	MBFS Shop Drawing submission required by an Act 144 Michigan Certified Firm?	Comment
Centering a sprinkler head in a ceiling panel without piping changes	No	Must be submitted if piping is changed.
Changing the type of sprinkler head without changing the location.	Yes	If the same type of sprinkler head is installed as a repair, no submission is needed. However if the head type changes from pendant to recessed, etc. a submission is required.
Turning sprinkler heads up during construction and returning it to the original location, in an unoccupied, contained construction area	No	This is considered a construction related activity within a contained construction area. If the final layout and heads return to the original configuration, no submission is required.
Modification, reconstruction or change of use of a room or space that, in the opinion of the architect/engineer of record, does not require modifications to the sprinkler system	No	Make note on the Architectural Plans submitted. If the MBFS Inspector disagrees, they may require a certified firm to provide confirmation.
Modification, reconstruction or change of use of a room or space that, in the opinion of the architect/engineer of record, does not require modifications to the fire alarm system	No	Make note on the Architectural Plans submitted.  Note: U of M EHS will check sound levels and will require 15 decibels above ambient
Adding and/or removing a fire alarm device	Yes	Can be a "stand alone" submission if the rehabilitation scope falls into a category that does not require MBFS Plan Review or, is a project in a non-health care occupancy where the fire alarm system is shared with a health care occupancy.
Adding and/or removing a fire suppression device	Yes	Can be a "stand alone" submission if the rehabilitation scope falls into a category that does not require MBFS Plan Review or, is a project in a non-health care occupancy where the fire suppression system is shared with a health care occupancy.
Tying an existing door into the fire alarm system, when it is not part of a larger project	Yes	"Stand alone" submission if it is not part of a larger project. Examples: door hold open devices and automatic operators on fire and/or smoke doors.