Department of Labor and Industry

Proposed Permanent Rules Adopting Changes to Minnesota Rules, Chapter 1311, Rehabilitation of Existing Buildings

1311.0010 ADOPTION BY REFERENCE OF THE INTERNATIONAL EXISTING BUILDING CODE.

Subpart 1. **General.** For the purposes of this chapter, "IEBC" means the ~~2012~~ 2018 edition of the International Existing Building Code as promulgated by the International Code Council (ICC), Washington, D.C. The IEBC is incorporated by reference and made a part of the Minnesota State Building Code, except as qualified by the applicable provisions in Minnesota Rules, chapter 1300, and as amended in this chapter. Portions of this publication reproduce excerpts from the ~~2012~~ 2018 IEBC, International Code Council (ICC), Washington, D.C., reproduced with permission, all rights reserved. The ~~2012~~ 2018 IEBC is not subject to frequent change and a copy of the ~~2012~~ 2018 IEBC, with amendments for use in Minnesota, is available in the office of the commissioner of labor and industry.

Subp. 1a. **Deleted appendices.** The appendices to the IEBC are deleted and are not made a part of this code.

Subp. 2. **Mandatory chapters.** IEBC chapters 2 to 16 are required and are incorporated into the Minnesota State Building Code, except as qualified by the applicable provisions in Minnesota Rules, chapter 1300, and as amended by this chapter. Amendments to IEBC section 305 are incorporated by reference in this chapter, but the amendments to that section are located in Minnesota Rules, chapter 1341, the Minnesota Accessibility Code. Referenced documents cited in IEBC section 305, and Minnesota Rules, chapter 1341, apply, unless otherwise stated or deleted. For the complete application and mandatory requirements relating to IEBC section 305, see Minnesota Rules, chapter 1341.

Subp. 3. **Replacement chapters and provisions.** The following IEBC chapters or sections are deleted and replaced with the provisions listed in items A to ~~E~~ D:

~~A. **Accessibility for existing buildings.** Accessibility provisions found in IEBC sections 410, 605, 705, 801.1 exception, 806, 901.2 exception, 906, 1006, 1012.8, 1101.2, 1105, 1204, 1205.15, and 1401.2.5 are deleted in their entirety. Requirements for accessibility are found in Minnesota Rules, chapter 1341, Accessibility for Buildings and Facilities.~~

~~B.~~ A. **Administration.** Chapter 1 of the ~~2012~~ 2018 IEBC and any references to code administration in this code are deleted and replaced with Minnesota Rules, chapter 1300, Administration of the State Building Code.

~~C.~~ B. **Elevators and platform lift provisions.** Reference to elevator and platform lift provisions in the IEBC mean Minnesota Rules, chapter 1307, Minnesota Elevators and Related Devices, adopted pursuant to Minnesota Statutes, section 326B.106, subdivision 1.

~~D.~~ C. **Flood hazard or floodproofing provisions.** Any flood hazard or floodproofing provisions in the IEBC and any reference to those provisions are deleted in their entirety. Requirements for floodproofing are located in Minnesota Rules, chapter 1335, Floodproofing Regulations.

~~E.~~ D. **Construction safeguards.** IEBC chapter 15, Construction Standards, is deleted and replaced with IBC chapter 33 as adopted and amended in Minnesota Rules, chapter 1305, Safeguards During Construction.

Subp. 4. **Seismic or earthquake provisions.** ~~F.~~ Any seismic or earthquake provisions of the IEBC and any references to them are deleted and are not made a part of this code.

1311.0020 REFERENCES TO OTHER INTERNATIONAL CODE COUNCIL CODES.

[For text of subpart 1, see Minnesota Rules]

Subp. 2. **Building code.** References to the "building code," the "Minnesota Building Code," the "International Building Code," or "IBC" in this code mean Minnesota Rules,

chapter 1305, Adoption of the International Building Code, adopted pursuant to Minnesota Statutes, section 326B.106, subdivision 1.

[For text of subparts 3 to 11, see Minnesota Rules]

Subp. 12. **Minnesota State Building Code.** References to the "Minnesota State Building Code" in this chapter shall have the same meaning as "code" in part 1300.0070, subpart 8.

1311.0202 SECTION 202, GENERAL DEFINITIONS.

Subpart 1. **Section 202, General definitions; added.** The following definitions are added to IEBC section 202 as follows:

APPROVED. "Approved" means approval by the building official, pursuant to the Minnesota State Building Code, by reason of: inspection, investigation, or testing; accepted principles; computer simulations; research reports; or testing performed by either a licensed engineer or by a locally or nationally recognized testing laboratory.

CODE. For purposes of this chapter, "the code" or "this code" means Minnesota Rules, chapter 1311, Adoption of the International Existing Building Code.

Subp. 2. **Section 202, General definitions; amended.** The following definitions in IEBC section 202 are amended to read as follows:

CODE OFFICIAL. "Code official" and "building code official" have the same meaning as "building official" in part 1300.0070, subpart 5.

EXISTING BUILDING. "Existing building" means a building erected prior to the effective date of this code, or one for which a legal building permit has been issued.

HISTORIC BUILDING. ~~any building or structure that is listed in the National Register of Historic Places; designated as a historic property under local or state designation law; certified as a contributing resource within a national register listed or locally designated~~

~~historic district; or with an opinion or certification that the property is eligible to be listed on the National Register of Historic Places or State Register of Historic Places either individually or as a contributing building to a historic district by the State Historic Preservation Officer or the Keeper of the National Register of Historic Places.~~ "Historic building" has the meaning given in part 1300.0070, subpart 12a.

REPAIR."Repair" means the reconstruction, individual component replacement, or renewal of any part of an existing building for the purpose of its maintenance or to correct damage.

SUBSTANTIAL DAMAGE. "Substantial damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

SUBSTANTIAL IMPROVEMENT. "Substantial improvement" means any repair, alteration, addition, or improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the structure, before the improvement or repair is started. If the structure has sustained substantial damage, any repairs are considered substantial improvement regardless of the actual repair work performed. The term does not, however, include either of the following:

1. any project for improvement of a building required to correct existing health, sanitary, or safety code violations identified by the code official and that is the minimum necessary to ensure safe living conditions; or

2. any alteration of a historic building, provided that the alteration will not preclude the building's continued designation as a historic building.

TECHNICALLY INFEASIBLE, ACCESSIBILITY. "Technically infeasible, accessibility" means an alteration of a building that has little likelihood of being accomplished because the existing structural conditions require the removal or alteration of a load-bearing member

that is an essential part of the structural frame, or because other physical or site constraints prohibit modification or addition of elements, spaces, or features which are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.

TECHNICALLY INFEASIBLE, STAIR CONSTRUCTION. "Technically infeasible, stair construction" means an alteration of a building that has little likelihood of being accomplished because the existing structural conditions require the removal or alteration of a load-bearing structural element that is an essential part of the structural frame, or because other existing physical or site constraints prohibit modification or addition of elements, spaces, or features which are in full and strict compliance with the minimum requirements for stair construction.

1311.0301 SECTION 301, ~~COMPLIANCE METHODS~~ ADMINISTRATION.

Subpart 1. **Section ~~301.1.1~~ 301.3.1 Prescriptive compliance methods.** IEBC section ~~301.1.1~~ 301.3.1 is amended to read as follows:

~~301.1.1~~ 301.3.1 Prescriptive compliance methods. ~~Repairs,~~ Alterations, additions, or changes of occupancy complying with chapter ~~4~~ 5 of this code shall be considered in compliance with the provisions of this code.

Subp. 2. **Section ~~301.2 Additional codes~~ 301.5 Compliance with accessibility.** IEBC section ~~301~~ 301.5 is amended ~~by adding a subsection~~ to read as follows:

~~**301.2.1 Window cleaning anchors.** Building anchors for window cleaning safety shall comply with the Minnesota Building Code.~~

~~**301.3 Replacement windows.** Replacement windows shall comply with the Minnesota Building Code.~~

301.5 Compliance with accessibility. Accessibility requirements for existing buildings shall comply with Minnesota Rules, chapter 1341, the Minnesota Accessibility Code.

1311.0302 SECTION 302, GENERAL PROVISIONS.

IEBC section 302.3 is amended by adding a subsection to read as follows:

302.3.1 Window cleaning anchors. Building anchors for window cleaning safety shall comply with the Minnesota State Building Code.

1311.0305 SECTION 305, ACCESSIBILITY FOR EXISTING BUILDINGS.

IEBC section 305.1 is amended to read as follows:

305.1 General. Existing buildings or portions of existing buildings undergoing maintenance, change of occupancy, additions, alterations, or reconstruction due to substantial damage or substantial improvements shall be made accessible to persons with disabilities as required by Minnesota Rules, chapter 1341. Refer to Minnesota Rules, chapter 1341, the Minnesota Accessibility Code, for the complete application of section 305.

1311.0402 [Renumbered 1311.0502]

1311.0403 [Renumbered 1311.0503]

1311.0405 [Renumbered 1311.0504]

~~1311.0606~~ 1311.0405 SECTION ~~606~~ 405, STRUCTURAL.

~~Section 606.2.3 Substantial structural damage to gravity load-carrying components.~~
IEBC section ~~606.2.3~~ 405.2.4 is amended to read as follows:

~~606.2.3~~ 405.2.4 Substantial structural damage to gravity load-carrying components. Gravity load-carrying components that have sustained substantial structural damage shall be rehabilitated to comply with the applicable provisions for all ~~gravity~~ dead, live, or snow loads, including snow drift effects, in the International Building Code. Undamaged gravity load-carrying components that receive ~~gravity~~ dead, live, or snow loads from rehabilitated components shall also be rehabilitated ~~if required to comply with~~ or shown to have the capacity to carry the design loads of the rehabilitation design.

(IEBC subsection ~~606.2.3.1~~ 405.2.4.1 and the exceptions remain unchanged.)

1311.0407 [Renumbered 1311.0506]

~~1311.0402~~ 1311.0502 SECTION ~~402~~ 502, ADDITIONS.

Subpart 1. **Section ~~402.3~~ 502.4 Existing structural elements carrying gravity load.** IEBC section ~~402.3~~ 502.4 is amended to read as follows:

~~402.3~~ 502.4 Existing structural elements carrying gravity load. Any existing gravity load-carrying structural element for which an addition and its related alterations cause an increase in design ~~gravity~~ dead, live, or snow load ~~of~~, including snow drift effects, that increases the demand-capacity ratio to more than ~~5~~ 105 percent, shall be ~~evaluated by a licensed design professional and modified, if necessary, to ensure it is designed to carry the increased~~ replaced or altered as needed to carry the gravity ~~load~~ loads required by the International Building Code for new structures. The evaluation of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction. Any existing gravity load-carrying structural element whose ~~gravity~~ vertical load-carrying capacity is decreased as a part of the addition and its related alteration shall be considered an altered element subject to the requirements of IEBC section ~~403.3~~ 503.3. Any existing element that will form part of the lateral load path for any part of the addition shall be considered an existing lateral load-carrying structural element subject to the requirements of IEBC section ~~402.4~~ 502.5.

(The exception remains unchanged.)

Subp. 1a. **Section 502.5 Existing structural elements carrying lateral load.** The first exception to IEBC section 502.5 is amended to read as follows:

1. Any existing lateral load-carrying structural element for which an addition causes an increase in demand-capacity ratio to no more than 110 percent shall be permitted

to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with IBC section 1609. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

(The second exception remains unchanged.)

Subp. 2. **Section ~~402.5~~ 502.6 Smoke alarms in existing portions of a building.** IEBC section ~~402.5~~ 502.6 is amended to read as follows:

~~402.5~~ 502.6 Smoke alarms in existing portions of a building. Where an addition is made to a building or structure of a Group R or I-1 occupancy, the existing building shall be provided with smoke alarms in accordance with the Minnesota Building Code, chapter 1305.

~~1311.0403~~ 1311.0503 SECTION ~~403~~ 503, ALTERATIONS.

Subpart 1. **Section ~~403.1~~ 503.1 General.** IEBC section ~~403.1~~ 503.1, the exceptions, are amended to read as follows:

Exceptions:

1. An existing stairway shall not be required to comply with the requirements of the International Building Code provided the existing or replacement stairway complies with the following: Existing stairs in buildings shall be permitted to remain if the rise does not exceed 8.25 inches (210 mm) and the run is not less than 9 inches (229 mm). Existing stairs are permitted to have a minimum width of 36 inches (914 mm), but not less than the width required for the number of occupants served, as determined by the International Building Code.

2. The replacement of an existing stairway may maintain its original rise and run if compliance with exception 1 is technically infeasible.

3. Handrails otherwise required to comply with IBC chapter 10 ~~of the IBC~~ shall not be required to comply with handrail extension requirements if the handrail extensions hinder the required means of egress.

Subp. 2. **Section ~~403.3~~ 503.3 Existing structural elements carrying gravity load.** IEBC section ~~403.3~~ 503.3 is amended to read as follows:

~~403.3~~ 503.3 Existing structural elements carrying gravity load. Any existing gravity load-carrying structural element for which an alteration causes an increase in design ~~gravity~~ dead, live, or snow load ~~of~~, including snow drift effect, that increase the demand-capacity ratio to more than ~~5~~ 105 percent, shall be ~~evaluated by a licensed design professional and modified, if necessary, to ensure it is designed~~ replaced or altered as needed to carry the ~~increased~~ gravity ~~load~~ loads as required by the International Building Code for new structures. The evaluation of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as a part of the alteration shall be shown to have the capacity to resist the applicable design gravity loads required by the International Building Code for new structures.

(The exceptions remain unchanged.)

Subp. 2a. **Section 503.4 Existing structural elements carrying lateral load.** The exception to IEBC section 503.4 is amended to read as follows:

Exception: Any existing lateral load-carrying structural element for which an alteration causes an increase in demand-capacity ratio to no more than 110 percent shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the

demand shall consider applicable load combinations with design lateral loads or forces in accordance with IBC section 1609. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

~~(IEBC subsection 403.3.1 remains unchanged.)~~

Subp. 3. [Repealed, 39 SR 95]

Subp. 4. [Repealed, 39 SR 95]

Subp. 5. [Repealed, 39 SR 95]

Subp. 6. [Repealed, 39 SR 95]

Subp. 7. [Repealed, 39 SR 95]

Subp. 8. **Section ~~403.6~~ 503.14 Smoke alarms.** IEBC section ~~403.6~~ 503.14 is amended to read as follows:

~~403.6~~ 503.14 Smoke alarms. Individual sleeping units and individual dwelling units in Group R and I-1 occupancies shall be provided with smoke alarms in accordance with the Minnesota Building Code, chapter 1305.

Subp. 9. **Section 503.15 Carbon monoxide alarms.** IEBC section 503.15 is amended to read as follows:

503.15 Carbon monoxide alarms. Carbon monoxide alarms shall be provided to protect sleeping units and dwelling units in Group I-1, I-2, I-4, and R occupancies in accordance with IBC section 915.

(The exceptions remain unchanged.)

~~1311.0405~~ 1311.0504 SECTION ~~405~~ 504, FIRE ESCAPES.

~~**Section 405.4 Dimensions.**~~ IEBC section ~~405.4~~ 504.4 is amended to read as follows:

~~405.4~~ 504.4 Dimensions. Existing and replacement fire escape stairs shall meet the minimum width, capacity, riser height, and tread depth as specified in Table ~~405.4~~ 504.4.

TABLE ~~405.4~~ 504.4
DIMENSIONS FOR EXISTING AND REPLACEMENT FIRE ESCAPE STAIRS

Feature	Serving More Than 10 Occupants	Serving 10 or Fewer Occupants
Minimum Width	22 inches	18 inches
Maximum Riser Height	9 inches	12 inches
Minimum Tread Depth	9 inches	6 inches

1311.0505 SECTION 505, WINDOWS AND EMERGENCY ESCAPE OPENINGS.

Subpart 1. **Section 505.3 Replacement window emergency escape and rescue openings.** IEBC section 505.3 is amended by adding a subsection to read as follows:

505.3.1 Licensed facilities. Windows in rooms used for foster care or day care licensed or registered by the state of Minnesota shall comply with the provisions of section 505.3 or all of the following conditions, whichever is more restrictive:

a. minimum of 20 inches in clear opening width;

b. minimum of 20 inches in clear opening height;

c. minimum of 648 square inches (4.5 square feet) clear opening; and

d. maximum of 48 inches from the floor to the bottom of the clear opening.

Subp. 2. **Section 505.4 Emergency escape and rescue openings.** IEBC section 505.4 is amended to read as follows:

505.4 Emergency escape and rescue openings. Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars,

grilles, grates, or similar devices are permitted to be placed over emergency escape and rescue openings provided that the minimum net clear opening size complies with the code that was in effect at the time of construction and such devices shall be releasable or removable from the inside without the use of a key, tool, or force greater than that which is required for normal operation of the escape and rescue opening. Where such bars, grilles, grates, or similar devices are installed, they shall not reduce the net clear opening of the emergency escape and rescue openings.

~~1311.0407~~ 1311.0506 SECTION ~~407~~ 506, CHANGE OF OCCUPANCY.

Subpart 1. **Section ~~407.1~~ 506.1 ~~Conformance.~~ Compliance.** IEBC section ~~407.1~~ 506.1 is amended to read as follows:

~~407.1 Conformance.~~ 506.1 Compliance. Changes in the use or occupancy of any building that would place the building in a different division of the same group of occupancy or in a different group of occupancies shall be permitted if such building is made to comply with the requirements of the International Building Code for such division or group of occupancy. Subject to the approval of the building official, the use or occupancy of existing buildings shall be permitted to be changed and the building is allowed to be occupied for purposes in other groups without conforming to all of the requirements of this code for those groups, provided the new or proposed use is equally or less hazardous, based on life and fire risk, than the existing use based on Table ~~407.1~~ 506.1.

Exception: The building need not be made to comply with IBC chapter 16 unless required by section 506.4.

(IEBC subsection 506.1.1 remains unchanged.)

Subp. 2. **Table ~~407.1~~ 506.1 Life safety and fire risk.** IEBC section ~~407.1~~ 506.1 is amended by adding a table to read as follows:

TABLE ~~407.1~~ 506.1 LIFE SAFETY AND FIRE RISK

RELATIVE HAZARD	OCCUPANCY CLASSIFICATION[(a)]
1 (Highest Hazard)	H, I-2, I-3
2	~~I-4,~~ A-1, A-2, A-3, A-4
3	A-5, E, 1-1, R-1, R-2, ~~A-2, A-3, A-4~~ I-4
4	~~B, F-1,~~ R-3, R-4, ~~S-1,~~ M~~, A-5~~
5 ~~(Lowest Hazard)~~	~~F-2, S-2, U~~ B, F-1, S-1, IRC-1, IRC-3
6	F-2, S-2, IRC-2
7 (Lowest Hazard)	U, IRC-4

[(a)] IRC-1, IRC-2, IRC-3, and IRC-4 occupancy classifications are included only to determine relative hazard level where residential structures are converted to nonresidential uses in a change of occupancy. See part 1300.0070, subpart 12b, for occupancy classifications.

Subp. 3. **Section ~~407.1.1~~ 506.1.2 Small assembly spaces.** IEBC section ~~407.1~~ 506.1 is amended by adding a subsection to read as follows:

~~407.1.1~~ 506.1.2 Small assembly spaces. The following rooms and spaces shall not be classified as assembly occupancies:

1. A room or space used for assembly purposes with an occupant load of less than 50 persons and accessory to another occupancy shall be classified as part of that occupancy or as a Group B occupancy.

2. A room or space used for assembly purposes that is less than 750 square feet (70 m^2) in area and accessory to another occupancy shall be classified as part of that occupancy or as a Group B occupancy.

Subp. 4. **Section 506.4.1 Live loads.** The exception to IEBC section 506.4.1 is amended to read as follows:

Exception: Structural elements whose demand-capacity ratio considering the change of occupancy is not more than 105 percent of the demand-capacity ratio based on previously approved live loads need not comply with this section. For purposes of this exception, the comparison of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

1311.0606 [Renumbered 1311.0405]

1311.0702 SECTION 702, BUILDING ELEMENTS AND MATERIALS.

IEBC section 702.5 is amended and a subsection is added to read as follows:

702.5 Replacement window emergency escape and rescue openings. Where windows are required to provide emergency escape and rescue openings in Group R-2 and R-3 occupancies, replacement windows shall be exempt from the requirements of IBC sections 1030.2, 1030.3, and 1030.4, provided that the replacement window meets the following conditions:

1. The replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window shall be permitted to be of the same operating style as the existing window or a style that provides for an equal or greater window opening area than the existing window.

2. The replacement window is not part of a change of occupancy.

Window opening control devices complying with ASTM F2090 shall be permitted for use on windows required to provide emergency escape and rescue openings.

702.5.1 Licensed facilities. Windows in rooms used for foster care or day care licensed or registered by the state of Minnesota shall comply with the provisions of section 702.5 or all of the following conditions, whichever is more restrictive:

a. minimum of 20 inches in clear opening width;

b. minimum of 20 inches in clear opening height;

c. minimum of 648 square inches (4.5 square feet) clear opening; and

d. maximum of 48 inches from the floor to the bottom of the clear opening.

1311.0706 SECTION 706, STRUCTURAL.

~~Section 706.2 Addition or replacement of roofing or replacement of equipment.~~

IEBC section 706.2 is amended to read as follows:

706.2 Addition or replacement of roofing or replacement of equipment. ~~Where addition or replacement of roofing or replacement of equipment results in additional dead loads, structural elements supporting such reroofing or equipment shall comply with the gravity load requirements of the International Building Code.~~ Any existing gravity load-carrying structural element for which an alteration causes an increase in design dead, live, or snow load, including snow drift effects, that increases the demand-capacity ratio to more than 105 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code for new structures. The evaluation of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

Exceptions:

~~1. Structural elements where the additional dead load from the roofing or equipment does not increase the demand-capacity ratio for the element by more than 5 percent. Additional loads due to snow retention as a result of a change in roof insulation shall be included in the evaluation.~~

~~2. Buildings constructed in accordance with the conventional light frame construction methods of the International Building Code and where the dead load from the roofing equipment is not increased by more than 5 percent.~~

~~3. Addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m^2) or less over an existing single layer of roof covering.~~

1. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the altered building complies with the conventional light-frame construction methods of the International Building Code.

2. Buildings in which the increased dead load is due entirely to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m^2) or less over an existing single layer of roof covering.

1311.0801 SECTION 801, GENERAL.

~~**Section 801.1 Scope.**~~ IEBC section 801.1 is amended by deleting the exception and amending the section to read follows:

801.1 Scope. Level 2 alterations as described in IEBC section ~~504~~ 603 shall comply with the requirements of this chapter.

(The exception pertaining to accessibility requirements is deleted.)

1311.0805 SECTION 805, MEANS OF EGRESS.

Subpart 1. **Section 805.2 General.** IEBC section 805.2 is amended to read as follows:

805.2 General. The means of egress shall comply with the requirements of IEBC section 805.

Exception: Means of egress conforming to the requirements of the Minnesota Building Code chapter under which the building was constructed shall be considered compliant means of egress if, in the opinion of the code official, they do not constitute a distinct hazard to life.

Subp. 2. [See repealer.]

1311.0806 SECTION 806, STRUCTURAL.

Subpart 1. **Section 806.2 Existing structural elements carrying gravity loads.** IEBC section 806.2 is amended to read as follows:

806.2 Existing structural elements carrying gravity loads. Any existing gravity load-carrying structural element for which an alteration causes an increase in design dead, live, or snow load, including snow drift effects, that increases the demand-capacity ratio to more than 105 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code for new structures. The evaluation of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the alteration shall be shown to have the capacity to resist the applicable design dead, live, and snow loads, including snow drift effects, required by the International Building Code for new structures.

(The exceptions remain unchanged.)

Subp. 2. **Section 806.3 Existing structural elements resisting lateral loads.** The exception to section 806.3 is amended to read as follows:

Exception: Any existing lateral load-carrying structural element for which an alteration causes an increase in demand-capacity ratio to no more than 110 percent shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with IBC section 1609. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

~~1311.0808~~ 1311.0807 SECTION ~~808~~ 807, ELECTRICAL.

Subpart 1. **Section ~~808.1~~ 807.1 New installations.** IEBC section ~~808.1~~ 807.1 is amended to read as follows:

~~808.1~~ 807.1 New installations. All newly installed electrical equipment and wiring relating to work done in any work area shall comply with the materials and methods requirements of NFPA 70.

Subp. 2. **Section ~~808.2~~ 807.2 Existing installations.** IEBC section ~~808.2~~ 807.2 is amended to read as follows:

~~808.2~~ 807.2 Existing installations. Existing wiring in all work areas in Group A-1, A-2, A-5, H, and I occupancies shall be upgraded to meet the materials and methods requirements of NFPA 70.

1311.0808 [Renumbered 1311.0807]

~~1311.0810~~ 1311.0809 SECTION ~~810~~ 809, PLUMBING.

~~Section 810.1 Minimum fixtures.~~ IEBC section ~~810.1~~ 809.1 is amended to read as follows:

~~810.1~~ 809.1 Minimum fixtures. Where the occupant load of the story is increased by more than 20 percent, plumbing fixtures for the story shall be provided in quantities specified in Minnesota Rules, chapter 1305, based on the increased occupant load.

1311.0810 [Renumbered 1311.0809]

~~1311.0811~~ 1311.0810 SECTION ~~811~~ 810, ENERGY CONSERVATION.

~~Section 811 Energy conservation.~~ IEBC section ~~811~~ 810.1 is amended ~~by deleting the section in its entirety and replacing it with the following~~ to read as follows:

~~811 Energy conservation~~ 810.1 Minimum requirements. For energy conservation requirements, see Minnesota Rules, chapters 1322 and 1323, as applicable.

1311.0811 [Renumbered 1311.0810]

1311.0901 SECTION 901, GENERAL.

IEBC section 901.2 is amended by deleting the exception to section 901.2.

~~1311.0908~~ 1311.0907 SECTION ~~908~~ 907, ENERGY CONSERVATION.

~~Section 908 Energy conservation.~~ IEBC section ~~908~~ 907.1 is amended ~~by deleting the section in its entirety and replacing it with the following~~ to read as follows:

~~908 Energy conservation~~ 907.1 Minimum requirements. For energy conservation requirements, see Minnesota Rules, chapters 1322 and 1323, as applicable.

1311.0908 [Renumbered 1311.0907]

1311.1006 SECTION 1006, STRUCTURAL.

The exception to IEBC section 1006.1 is amended to read as follows:

Exception: Structural elements whose demand-capacity ratio considering the change of occupancy is not more than 105 percent of the demand-capacity ratio based on previously approved live loads. The evaluation of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

~~1311.1010~~ 1311.1009 SECTION ~~1010~~ 1009, PLUMBING.

~~Section 1010.1 Increased demand.~~ IEBC section ~~1010.1~~ 1009.1 is amended to read as follows:

~~1010.1~~ 1009.1 Increased demand. Where the occupancy of an existing building or part of an existing building is changed such that the new occupancy is subject to increased or different plumbing fixture requirements in accordance with Minnesota Rules, chapter 1305, or to increased water supply requirements in accordance with Minnesota Rules, chapter 4714, the new occupancy shall comply with Minnesota Rules, chapter 4714.

1311.1010 [Renumbered 1311.1009]

~~1311.1012~~ 1311.1011 SECTION ~~1012~~ 1011, CHANGE OF OCCUPANCY CLASSIFICATION.

Subpart 1. **Section 1011.1.1 Compliance with chapter 9.** IEBC section 1011.1.1 is amended to read as follows:

1011.1.1 Compliance with chapter 9. The requirements of IEBC chapter 9 shall be applicable throughout the building for the new occupancy classification based on the separation conditions in sections 1011.1.1.1 and 1011.1.1.2.

(IEBC subsections 1011.1.1.1 and 1011.1.1.2 remain unchanged.)

Subp. 2. **Section 1011.2.1 Fire sprinkler system.** ~~**Section 1012.2.1 Fire sprinkler system.**~~ IEBC section ~~1012.2.1~~ 1011.2.1 is amended to read as follows:

~~1012.2.1~~ 1011.2.1 Fire sprinkler system. Where a change in occupancy classification occurs that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Minnesota Rules, chapter 1305, such system shall be provided throughout the area where the change of occupancy occurs.

1311.1012 [Renumbered 1311.1011]

1311.1103 SECTION 1103, STRUCTURAL.

Subpart 1. **Section ~~1103.2~~ 1103.1 Additional gravity loads.** IEBC section ~~1103.2~~ 1103.1 is amended to read as follows:

~~1103.2~~ 1103.1 Additional gravity loads. ~~Existing structural elements supporting any additional gravity loads as a result of additions shall comply with the International Building Code.~~ Any existing gravity load-carrying structural element for which an addition and its related alterations cause an increase in design dead, live, or snow load, including snow drift effects, that increases the demand-capacity ratio to more than 105 percent shall be replaced or altered as needed to carry the gravity loads required by the International Building Code

for new structures. The evaluation of demand-capacity ratios and calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the addition and its related alterations shall be considered to be an altered element subject to the requirements of section 806.2. Any existing element that will form part of the lateral load path for any part of the addition shall be considered to be an existing lateral load-carrying structural element subject to the requirements of section 1103.3.

(The exceptions remain unchanged.)

~~**Exceptions:**~~

~~1. Structural elements whose demand-capacity ratio is not increased by more than 5 percent. Additional loads due to snow retention as a result of a change in roof insulation shall be included in the evaluation.~~

~~2. Buildings of Group R occupancy with no more than five dwelling units or sleeping units used solely for residential purposes where the existing building and the addition comply with the conventional light frame construction methods of the International Building Code.~~

Subp. 2. **Section ~~1103.3~~ 1103.2 Lateral force-resisting systems.** The exceptions to IEBC section ~~1103.3 is~~ 1103.2 are amended to read as follows:

~~**1103.3 Lateral force-resisting system.** The lateral force-resisting system of existing buildings to which additions are made shall comply with sections 1103.3.1, 1103.3.2, and 1103.3.3.~~

Exceptions:

1. Buildings of Group R occupancy with no more than five dwelling or sleeping units used solely for residential purposes where the existing building and the addition comply with the conventional light-frame construction methods of the IBC.

~~2. Other existing buildings where the lateral-force story shear in any story is not increased by more than ten percent cumulative.~~

2. Any existing lateral load-carrying structural element for which an addition causes an increase in demand-capacity ratio to no more than 110 percent shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with IBC section 1609. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

Subp. 3. [See repealer.]

1311.1105 SECTION 1105, CARBON MONOXIDE ALARMS IN GROUPS I-1, I-2, I-4, AND R.

IEBC section 1105.1 is amended to read as follows:

1105.1 Carbon monoxide alarms in existing portions of a building. Where an addition is made to a building or structure of a Group I-1, I-2, I-4, or R occupancy, the existing building shall be equipped with carbon monoxide alarms in accordance with IBC section 915.

1311.1106 SECTION 1106, STORM SHELTERS.

IEBC section 1106.1 is amended to read as follows:

1106.1 Addition to a Group E occupancy. Where an addition with an occupant load of 50 or more is made to an existing Group E occupancy, the addition shall have a storm shelter

constructed in accordance with ICC 500 in the following counties: Anoka, Benton, Blue Earth, Brown, Carver, Chippewa, Chisago, Cottonwood, Dakota, Dodge, Faribault, Fillmore, Freeborn, Goodhue, Hennepin, Houston, Isanti, Jackson, Kandiyohi, LeSueur, Lincoln, Lyon, Martin, McLeod, Meeker, Murray, Nicollet, Nobles, Olmsted, Pipestone, Ramsey, Redwood, Renville, Rice, Rock, Scott, Sherburne, Sibley, Steele, Stearns, Swift, Wabasha, Waseca, Washington, Watonwan, Winona, Wright, and Yellow Medicine.

Exceptions:

1. Group E day care facilities.

2. Group E occupancies accessory to places of religious worship.

3. Additions meeting the requirements for shelter design in ICC 500.

(Subsections 1106.1.1 and 1106.1.2 remain unchanged.)

1311.1201 SECTION 1201, GENERAL.

~~**Section 1201.2 Report.**~~ IEBC section 1201.2 is amended to read as follows:

1201.2 Report. A historic building undergoing ~~repair,~~ alteration~~,~~ or change of occupancy shall be investigated and evaluated. A written report shall be prepared and filed with the code official by a registered design professional when such a report is necessary in the opinion of the code official. The report shall identify each required safety feature that is in compliance with this chapter and where compliance with provisions of this chapter would be damaging to the contributing historic features.

1311.1301 [Renumbered 1311.1401]

~~1311.1401~~ 1311.1301 SECTION ~~1401~~ 1301, GENERAL.

Subpart 1. **Section ~~1401.2~~ 1301.2 Applicability.** IEBC section ~~1401.2~~ 1301.2 is amended to read as follows:

~~1401.2~~ 1301.2 Applicability. Structures existing prior to the effective date of this code, in which there is work involving additions, alterations, or change of occupancy shall be made to conform to the requirements of IEBC chapter ~~14~~ 13 or the provisions of IEBC chapters ~~5 to 13~~ 6 to 12. The provisions of sections ~~1401.2.1 to 1401.2.5~~ 1301.2.1 to 1301.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, I-2, M, R, and S. These provisions shall not apply to buildings with occupancies in Group H, I-1, I-3, or ~~I~~ I-4.

(IEBC subsections ~~1401.2.1, 1401.2.2, 1401.2.3, 1401.2.4, and 1401.2.5~~ 1301.2.1, 1301.2.2, 1301.2.3, 1301.2.4, and 1301.2.5 remain unchanged.)

Subp. 2. **Section ~~1401.3.1~~ 1301.3.1 Hazards.** IEBC section ~~1401.3.1~~ 1301.3.1 is amended to read as follows:

~~1401.3.1~~ 1301.3.1 Hazards. Where the code official determines that an unsafe condition or hazardous building, as defined in Minnesota Statutes, section 463.15, exists as provided for in Minnesota Rules, part 1300.0180, such unsafe condition or hazard shall be abated in accordance with Minnesota Statutes, sections 463.15 to 463.26.

Subp. 3. **Section ~~1401.3.2~~ 1301.3.2 Compliance with other codes.** IEBC section ~~1401.3.2~~ 1301.3.2 is amended to read as follows:

~~1401.3.2~~ 1301.3.2 Compliance with other codes. Compliance with other codes is deleted in its entirety.

1311.1302 [Renumbered 1311.1402]

~~1311.1301~~ 1311.1401 SECTION ~~1301~~ 1401, GENERAL.

~~Section 1301.2 Conformance.~~ IEBC section ~~1301.2~~ 1401.2 is amended to read as follows:

~~1301.2~~ 1401.2 Conformance. Buildings that are unsafe, as provided in Minnesota Rules, part 1300.0180, shall not be moved. Any repair, alteration, or change of occupancy

undertaken within the moved structure shall comply with the requirements of this code applicable to the work being performed. Any field-fabricated elements shall comply with the requirements of the International Building Code.

~~1311.1302~~ 1311.1402 SECTION ~~1302~~ 1402, REQUIREMENTS.

Subpart 1. **Section 1402.3 Wind loads.** **~~Section 1302.3 Wind loads.~~** IEBC section ~~1302.3~~ 1402.3 is amended to read as follows:

~~1302.3~~ 1402.3 Wind loads. Buildings shall comply with International Building Code wind provisions, as applicable.

Exceptions:

1. Detached one- and two-family dwellings and Group U occupancies where wind loads at the new location are not higher than those at the previous location.

2. Structural elements whose demand-capacity ratio is not increased ~~by~~ to more than ~~10~~ 110 percent. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

Subp. 2. **Section 1402.5 Snow loads.** IEBC section 1402.5 is amended to read as follows:

1402.5 Snow loads. Structures shall comply with International Building Code snow loads as applicable where snow loads at the new location are higher than those at the previous location.

Exception: Structural elements whose demand-capacity ratio is not increased to more than 105 percent. For purposes of this exception, comparisons of demand-capacity ratios ad calculation of design gravity loads, forces, and capacities shall account for the cumulative effects of additions and alterations since original construction.

1311.1401 [Renumbered 1311.1301]

REPEALER. Minnesota Rules, parts 1311.0401; 1311.0404; 1311.0802; 1311.0803; 1311.0805, subpart 2; 1311.0807; 1311.1007; 1311.1103, subpart 3; and 1311.1203, are repealed.

EFFECTIVE DATE. Minnesota Rules, parts 1311.0010 to 1311.1401, are effective March 31, 2020, or five business days after publication of the notice of adoption in the State Register, whichever is later.