

To Be Completed by TAG Leads											TAG Meeting Results						
Structural TAG Review Worksheet 1303, 1305 IBC, 1311 IEBC											Recommendations A - Accept Model Code AM - Amend Model Code						
Item Number	2024 Code and Chapter		2024 Code & Section	2021 Code & Section	2020 MN Code Section	Code Section Heading/Topic	MN Amendment?	Description of change(s) to code language	Safety/Health Value	Cost	Impact	Staff Comment	Staff Recommendation	TAG Recommendation	TAG Group Consensus Y or N	Stakeholder Consensus Y or N	Comments
	Code	Chapter															
1305.011 Adoption of International Building Code by Reference and Administrative Authority																	
.1-B1					1305.0011 Subp. 1	Adoption of IBC and administrative authority	Y	Current language references 2018 IBC	N	N		Carry over amendment, adjust dates	AM	AM	Y		
.2-B1					1305.0011 Subp. 4	Seismic and earthquake provisions	Y	Current language-deletes all seismic and earthquake provisions	N	N		Carry over amendment	AM	AM	Y		Discussion.
IBC/MR 1305 Chapter 2 - Definitions (Structural)																	
1-B2	IBC	2	202	202		Definitions		2021 IBC Definition Changes (Carried through to 2024) - Dangerous; Dead Load; Deleted Design Displacement; Deleted Design Pro in Responsible Charge; Fire Retardant Treated Wood; Glass Mat Gypsum Panel; Gypsum Panel Product; Gypsum Sheathing; Gypsum Wallboard; Impact Protective System; Individual Truss Member; Insulating Sheathing; Intermodal Shipping Container; Permanent Individual Truss Member Diagonal Bracing; Permanent Individual Truss Member Restraint; Positive Roof Drainage; Preservative-Treated Wood; Primary Structural Frame; Secondary Structural Members; Storage Racks, Steel Cantilevered; Strength; Underpinning; Wall, Load Bearing; Windborne Debris Region;						A	Y		
2-B2	IBC	2	202	202		Definitions		2024 IBC Definition Changes - Basic Wind Speed; Building-Integrated Photovoltaic Roof Covering; Building-Integrated Photovoltaic System; Cast-in Place Concrete Equivalent Diaphragm; Cripple Wall Clear Height; Ground Snow Load, Pg; Ground Snow Load, Pg(asd); Ground Snow Load Geodatabase; Gypsum Board; Landscaped Roof; Low-Slope; Metal Building System; Photovoltaic Panel System, Ground Mounted; Photovoltaic Support Structure, Elevated; Precast Concrete Diaphragm; Public-Occupancy Temporary Structure; Raised-Deck System; Service Life; Site Class; Temporary Event; Temporary Structure; Type X; Vegetative Roof; Wind Design Geodatabase						A	Y		
ICCEB/MR 1311 Chapter 2 - Definitions (Structural)																	

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2.1-EB2	IEBC	2	202	202		Dangerous	N	Revised 2021 - Expands loading conditions; Added 'aftershock' 2024.				Seismic and earthquake provisions made non-applicable elsewhere in MN code.		A	Y		
2.2-EB2	IEBC	2	202			Disproportionate Earthquake Damage	N	Revised definition 2024	N	N		Seismic and earthquake provisions made non-applicable elsewhere in MN code.		A	Y		Discussion
2.3-EB2	IEBC	2	202		1311.0202	Substantial Damage	Y	MN amendment differs from model code.	N	N		Carry over amendment-coordinate with 1311.	AM	AM	Y		Discussion. Defer to 1311 and 1335 TAGs.
2.4-EB2	IEBC	2	202		1311.0202	Substantial Improvement	Y	MN amendment differs from model code.	N	N		Carry over amendment-coordinate with 1311.	AM	AM	Y		Discussion. Defer to 1311 and 1335 TAGs.
2.5-EB2	IEBC	2	202			Substantial Structural Damage	N	Small change to language in 2024 - Only the last sentence added to clarify work done to implement repairs shall not be considered damage that reduces structural capacity.	N	N		Coordinate with 1305 & 1311 TAG.	A	A	Y		

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2.6-EB2	IEBC	2	202			Technically Infeasible	Y	Definition not present in published 2018 1311 IEBC. See definitions for Technically Infeasible, Accessibility and Technically Infeasible, Stair Construction	N	N	Addressed in amendments Technically Infeasible Accessibility and Technically Infeasible Stairway Construction	AM	AM	Y		Discussion. Defer to 1311 TAG.	
3-EB2					1311.0202	Technically Infeasible, Accessibility	Y	Definition not present in model code. Pertains to accessibility in existing buildings.	N	N	Coordinate with 1311 and 1341.	AM	AM	Y		Discussion. Defer to 1341 TAG.	
4-EB2					1311.0202	Technically Infeasible, Stair Construction	Y	AM	N	N	Carry over amendment.	AM	AM	Y		Discussion. Defer to 1311 TAG.	
IBC/MR 1305 Chapter 4 - Special Detailed Requirements Based on Occupancy and Use (Structural Provisions)																	
5-B4	IBC	4	403.2.2; 403.2.2.1-403.2.2.4	403.2.2; 403.2.2.1-403.2.2.4	403.2.3; 403.2.3.1-403.2.3.4	High Rise Buildings - Construction - Structural integrity of interior exit stairways and elevator hoistway enclosures		Changes in 2021 and 2024. Adds new language, adds Soft Body Impact, adds glass wall provisions. Renumbered 2021.	H	L		A	A	Y			
IBC/MR 1305 Chapter 14 - Exterior Walls (Structural Provisions)																	
6-B14	IBC	14	1402.3-1402.3.1		1402.3	Exterior Walls-Wind Resistance		Revised 2024. Renamed 2024. Adds specifics for application, adds requirements for attachments through exterior insulation	H	M			A	Y			
7-B14	IBC	14	1404.5; 1405.1-1405.3.6, including Tables	1404.17	1404.17	Installation of Wall Coverings - Fastening		Revision 2024. Moved from 1404.17 and 2603.12 and 2603.13. Revisions to Tables 1404.5.3.1 and 1404.5.3.2 footnotes for wood structural panels. Subsequent section parts renumbered.	H	M			A	Y			
8-B14	IBC	14	1404.11.2	1404.10.2	1404.10.2	Exterior Adhered Masonry Veneer - porcelain tile		Revised 2021. New dimensional and weight limitations	H	L			A	Y			

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9-B14	IBC	14	1404.15; 1404.15.1- 1404.15.2	1404.15; 1404.15.1- 1404.15.2	1404.14; 1404.14.1	Vinyl Siding and Insulated Vinyl Siding; Application; Installation Over Foam Plastic Insulating Sheathing		Revised in 2021 and 2024. New limitations on use related to wind pressure and weight; Fastener requirements; New table - Required Minimum Wind Load Design Pressure Rating for Vinyl Siding Installed Over Foam Plastic Sheathing Alone	H	M			A	Y			
10-B14	IBC	14	1404.18; 1404.18.1- 1404.18.2	1404.18	1404.18	Polypropylene Siding; Installation: Fastener Requirements		Revised in 2024. Added installation and fastener requirements.	H	M			A	Y			
11-B14	IBC	14	1404.19; 1404.19.1			Fiber-mat reinforced cementitious backer units; Installation		Added in 2024.	H	M			A	Y			
IBC/MR 1305 Chapter 16 - Structural Design																	
12-B16	IBC	16	1601	1601	1601	Scope		Changed in 2024. Removed "regulated by this code" from end of sentence.	L	L		A	A	Y			
13-B16	IBC	16	1602.1	1602.1	1602.1	Notations	N	Changes in 2021 and 2024 E, L, Pg(asd), Pg, V, V _r .	L	L			A	Y		Table 5/2. Discussed 5/16-Tabled. Accepted 12/5.	
14-B16	IBC	16	1603.1; 1603.1.2; 1603.1.3; 1603.1.5; 1603.1.9	1603.1.4	1603.1; 1603.1.1- 1603.1.9	Construction Documents		Slight change in 2021 for Wind Design Data, 5. Design Wind Pressures. Multiple changes in 2024.	L	L		A	A	Y			
15-B16	IBC	16	1604.3	1604.3	1604.3	General Design Requirements, Serviceability		2021 removed earthquake loading drift limit language.	L	L		A	A	Y			
16-B16	IBC	16	Table 1604.3	Table 1604.3		Deflection Limits	N	2024, added footnote j, snow load can be taken at .7 design snow for deflection limits.	M	L			A	Y		Table 5/2. Discussed 5/16-Tabled. Accepted 9/19.	
17-B16	IBC	16	1604.4	1604.4	1604.4	Analysis		2024 revised design requirements for non-flexible or non-rigid or wood diaphragms.	H	L		A	A	Y			
18-B16	IBC	16	Table 1604.5	Table 1604.5	Table 1604.5	Risk Categories		2021 adds buildings with multiple uses including assembly spaces over 300 and cumulative over 2500. 2021 adds I-4s. In 2024, multiple changes, including footnote a.	H	M		A	A	Y			
19-B16	IBC	16	1604.5	1604.5	1604.5	Risk Category		2024 adds exception for some freestanding parking garages.	M	L		A	A	Y			
20-B16	IBC	16	1604.5.1	1604.5.1	1604.5.1	Risk Categories, Multiple Occupancies		2024 adds detail to conditions where multiple occupancy buildings must be assigned higher risk category, or when can be separated.	H	L		A	A	Y			

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21-B16	IBC	16	1604.5.2			Risk Categories, Photovoltaic Panel Systems		New in 2024, assigns risk category to PV panel systems.	M	M			A	A	Y		
22-B16	IBC	16	1604.8.2	1604.8.2	1604.8.2	Anchorage, Structural Walls		2024 revised language applies to all structural walls. Revised language for seismic.	M	M			A	A	Y		
23-B16	IBC	16	1605.1; 1605.1.1	1605.1; 1605.1.1	1605.1	Load Combinations, General		2021 revised language refers design to ASCE 7 or 1605.2, adds 3 exceptions. 2024 revises exception 2, seismic related, adds exception 4 for tornado loads.	H	L			A	A	Y		
24-B16	IBC	16			1605.2	Load Combinations Using Strength Design or Load and Resistance Factor Design		Deleted in 2021.	N	N				A	Y		
25-B16	IBC	16	1605.2	1605.2	1605.3.2	Alternative Allowable Stress Design Load Combinations		Renumbered, 2021 revisions, 2024 exception 2 revisions for flat roof snow loads.	M	L			A	A	Y		
26-B16	IBC	16	1606.1			General, Dead Loads		New language in 2024. Buildings, structures, and parts thereof shall be designed to resist the effects of dead loads.	H	L			A	A	Y		
27-B16	IBC	16	1606.2	1606.2	1606.2	Weights of Materials of Construction, Dead Loads		2021 changed section title from "Design Dead Loads."	H	N			A	A	Y		
28-B16	IBC	16	1606.3	1606.3		Weight of Fixed Service Equipment, Dead Loads		New section in 2021.	H	L			A	A	Y		
29-B16	IBC	16	1606.4	1606.4		Photovoltaic Panel Systems, Dead Loads		New section in 2021.	H	L			A	A	Y		
30-B16	IBC	16	1606.5	1606.5		Vegetative and Landscaped Roofs, Dead Loads		New section in 2021.	H	L			A	A	Y		
31-B16	IBC	16	1607.1	1607.1	1607.1	General, Live Loads		New language in 2024. Buildings, structures, and parts thereof shall be designed to resist the effects of live loads.	H	L			A	A	Y		
32-B16	IBC	16	Table 1607.1	Table 1607.1	Table 1607.1	Minimum Uniformly Distributed Live Loads and Minimum Concentrated Live Loads		Multiple revisions in 2021. More revisions in 2024.	H	L			A	A	Y		

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33-B16	IBC	16	1607.2	1607.2	1607.2	Loads not Specified		2021 changes reference to Section 1607 - was Table 1607.	H	L		A	A	Y			
34-B16	IBC	16	1607.3; 1607.3.1; 1607.3.2			Uniform Live Loads		2024 new language addresses loads on sloping surfaces, partial loading of floors, and partial loading of roofs.	H	L		A	A	Y			
35-B16	IBC	16	1607.4	1607.4	1607.4	Concentrated Live Loads		2024 minor language change.	H	L		A	A	Y			
36-B16	IBC	16	1607.5	1607.5	1607.5	Partition Loads		2024 revised format to create exception, does not allow 1607.13 reduction for partition loads.	M	L		A	A	Y			
37-B16	IBC	16	1607.6; 1607.6.1	1607.6	1607.6	Helipads, Concentrated Loads		2024 revised and reorganized creating the subsection.	H	L		A	A	Y			
38-B16	IBC	16	1607.7	1607.7		Passenger Vehicle Garages		New section in 2021 for floors. 2024 revision changes OR to AND.	H	M		A	A	Y			
39-B16	IBC	16	1607.8; 1607.8.1; 1607.8.2	1607.8; 1607.8.1; 1607.8.2	1607.7; 1607.7.1; 1607.7.2	Heavy Vehicle Loads; Loads; Fire Truck and Emergency Vehicles		Renumbered in 2021.	L	N		A	A	Y			
40-B16	IBC	16	1607.8.8.2			Heavy Vehicle Loads, Fire Truck and Emergency Vehicles		2024 revision addresses fire dept and emergency vehicles.	H	L		A	A	Y			
41-B16	IBC	16	1607.8.3; 1607.8.4; 1607.8.4.1; 1607.8.5; 1607.9	1607.8.3; 1607.8.4; 1607.8.4.1; 1607.8.5; 1607.9;		Heavy Vehicle Garages; Forklifts and Movable Equipment; Impact and Fatigue; Posting; Loads on Handrails, Guards, Grab Bars and Seats		Renumbered in 2021.	L	N		A	A	Y			
42-B16	IBC	16	1607.9.1			Concentrated Load, Handrails and Guards		2024 renames section, language change addresses glass handrail and guards per 2407.	H	L		A	A	Y			
43-B16	IBC	16	1607.9.1.1			Uniform Load, Handrails and Guards		2024 renames section, language addresses design loads and adds Exception 3.	H	L		A	A	Y			
44-B16	IBC	16	1607.9.1.2	1607.9.1.2		Guard Component Loads		2021 change itemizes balusters, panel fillers, and guard infill components.	H	L		A	A	Y			
45-B16	IBC	16	1607.9.2	1607.9.2		Grab Bars, Shower Seats and Accessible Benches		2021 renames section, changes references to "accessible benches" and "shower seat".	H	L		A	A	Y			
46-B16	IBC	16	1607.10	1607.17		Fixed Ladders		New section in 2021. Moved to 1607.10 in 2024.	H	M		A	A	Y			

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	Code	Chapter							N - None, L - Low, M - Med, H - High	Cost Impact						
47-B16	IBC	16	1607.12; 1607.12.1- 1607.12.3	1607.11; 1607.11.1- 1607.11.3		Impact Loads; Elevators; Machines; Elements Supporting Hoists for Façade Access and Building Maintenance Equipment		Renumbered in 2021 and again in 2024.	L	N		A	A	Y		
48-B16	IBC	16	1607.12.4	1607.11.4		Fall Arrest, Lifeline, and Rope Descent System Anchorages		2021 section renumbered, renamed, language revised. Only renumbered 2024.	H	L		A	A	Y		
49-B16	IBC	16	Deleted	1607.13		Distribution of Floor Loads		Renumbered 2021, deleted 2024.	L	N		A	A	Y		
50-B16	IBC	16	1607.13	1607.12		Reduction in Uniform Live Loads		Renumbered in 2021 and in 2024. 2024 revised language, no substantive change.	H	L		A	A	Y		
51-B16	IBC	16	1607.13.1; Table 1607.13.1; 1607.13.1.1	1607.12.1; Table 1607.12.1; 1607.12.1.1		Reduction in Uniform Live Loads - multiple subsections		Renumbered in 2021 and 2024.	L	N		A	A	Y		
52-B16	IBC	16	1607.13.1.2	1607.12.1.2		Heavy Live Loads		Renumbered in 2021 and 2024. Clarifying revision to Exception 1.	H	L		A	A	Y		
53-B16	IBC	16	1607.13.1.3	1607.12.1.3		Passenger Vehicle Garages		Renumbered in 2021 and 2024. Clarifying revision to Exception 1.	H	L		A	A	Y		
54-B16	IBC	16	1607.13.2	1607.12.2	1607.11.2	Alternative Live Load Reduction		Renumbered in 2021. Rewritten in 2024.	H	L		A	A	Y		
55-B16	IBC	16	Deleted	1607.14; 1607.14.1	1607.13; 1607.13.2	Roof Loads; Distribution of Roof Loads		Renumbered 2021, deleted 2024.	L	N		A	A	Y		
56-B16	IBC	16	1607.14	1607.14.2	1607.13.2	Reduction in Uniform Roof Live Loads		Renamed from "General" in 2021 and renumbered. Adds "canopies" in 2024.	L	N		A	A	Y		
57-B16	IBC	16	1607.14.1	1607.14.2.1	1607.13.2.1	Ordinary Roofs, Awnings, and Canopies		Renumbered 2021 and 2024	L	N		A	A	Y		
58-B16	IBC	16	1607.14.2	1607.14.2.2	1607.13.3	Occupiable Roofs		2021 Changed "roof garden" to "landscaped roofs". Renumbered 2021 and 2024.	L	N		A	A	Y		
59-B16	IBC	16	Deleted	1607.14.3	1607.13.4	Awnings and Canopies		Renumbered 2021, deleted 2024.					A	Y		

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60-B16	IBC	16	1607.14.3; 1607.14.3.1; 1607.14.3.2	1607.14.4; 1607.14.4.1 ; 1607.14.4.2	1607.13.5; 1607.13.5.1; 1607.13.5.2	Photovoltaic Panel Systems, Roof Live Loads and two subsections		Renumbered in 2021 and 2024	L	N		A	A	Y		
61-B16	IBC	16	1607.14.3.3	1607.14.4.3		Elevated Photovoltaic (PV) Support Structures with Open Grid Framing		Renumbered in 2021. Renamed in 2024 with some language revision.	M	L		A	A	Y		
62-B16	IBC	16	1607.14.3.4	1607.14.4	1607.13.5.3	Ground-Mounted Photovoltaic (PV) Panel Systems		Renumbered 2021 and 2024. Renamed 2021 from "Photovoltaic Panels or Modules Installed as an Independent Structure". Language revised 2021 and 2024.	M	L		A	A	Y		
63-B16	IBC	16	1607.14.3.5	1607.14.4.5	1607.13.5.4	Ballasted PV Panel Systems		Renumbered 2021 and 2024. Renamed 2021 from "Photovoltaic Panels or Modules Installed as an Independent Structure". Language revised 2021 and 2024.	L	N		A	A	Y		
64-B16	IBC	16	1607.15	1607.15; 1607.15.1- 1607.15.4	1607.14; 1607.14.1- 1607.14.4	Crane Loads		Renumbered 2021. Revised 2024 for design per ASCE 7 Section 4.9. and 1607.15.1-1607.15.4 deleted.	M	L		A	A	Y		
65-B16	IBC	16		1607.16; 1607.16.1; 1607.16.2	1607.15; 1607.15.1; 1607.15.2	Interior Walls and Partitions; Fabric Partitions; Fire Walls		Renumbered in 2021.	L	N		A	A	Y		
66-B16	IBC	16	1607.17	1607.18		Library Stack Rooms		New in 2021. Renumbered 2024.					A	Y		
67-B16	IBC	16	1607.18; 1607.18.1	1607.19; 1607.19.1		Seating for Assembly Uses; Horizontal Sway Loads		New in 2021. Renumbered 2024.	H	M			A	Y		
68-B16	IBC	16	1607.19; 1607.19.1; 1607.19.2	1607.20; 1607.20.1; 1607.20.2		Sidewalks, Vehicular Driveways, and Yards Subject to Trucking; Uniform and Concentrated Loads		New in 2021. Renumbered in 2024.	H	L			A	Y		
69-B16	IBC	16	1607.20	1607.21		Stair Treads		New in 2021. Renumbered in 2024.	H	L			A	Y		

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70-B16	IBC	16	1607.21; 1607.21.1; 1607.21.2; 1607.22.3	1607.22; 1607.22.1; 1607.22.2; 1607.22.3		Residential Attics; Uninhabitable Attics without Storage; Uninhabitable Attics with Storage; Attics Served by Stairs		New in 2021. Renumbered in 2024.	H	L			A	Y			
71-B16	IBC	16	1608.1		1608.1	General, Snow Loads		Exception added 2024 for Temporary Structures complying with 3103.6.1.1.	H	L			A	Y			
72-B16	IBC	16	1608.2; Figures 1608.2(1) - 1608.2(4)		1608.2; MR 1305.1608.2	Ground Snow Loads	Y	Subsection revised 2024. Figures revised. MN amendment does not reference Figures. Changing reference for loading to ASCE 7 Hazard Tool https://asce7hazardtool.online/ .	H			Coordinate with 1303 and 1309.				Table 5/2. Discussed 5/16-Tabled. 9/19/24 - Tabled until review of IRC/1309. Discussed 12/5/24. Map by county discussed. Tabled.	
73-B16	IBC	16	1609.1.1		1609.1.1	Determination of Wind Loads		2024 changes "basic design" to "basic. Adds exception 7 for Temporary Structures complying with 3103.6.1.2. Reference to Figures revised.	H	L			A	Y			
74-B16	IBC	16	Table 1609.2		Table 1609.2	Windborne Debris Protection Fastening Schedule for Wood Structural Panels		2024 revision to footnote a.	H	L			A	Y			
75-B16	IBC	16	Deleted	1609.2.2	1609.2.2	Application of ASTM E1996		Deleted in 2024.	N	N			A	Y			
76-B16	IBC	16	1609.2.2	1609.2.3	1609.2.3	Garage Doors		Renumbered 2024.	H	L		A	A	Y			
77-B16	IBC	16	1609.3; 160.3.1; Table 1609.3.3		1609.3; 1609.3.1; 1609.3.1	Basic Design Wind Speed		In 2024 changed "basic design" to "basic" throughout section. Sends determination for Hawaii, US Virgin Islands, Puerto Rico to ASCE Wind Design Geodatabase.	H	L			A	A	Y		
78-B16	IBC	16	Figure 1609.3(1); Figure 1609.3(2); Figure 1609.3(3); Figure 1609.3(4)		Figure 1609.3(1); Figure 1609.3(2); Figure 1609.3(3); Figure 1609.3(4)	Basic Design Wind Speeds, V, for Risk Category II-IV Buildings and Other Structures		Figures revised 2024.	H	L			A	A	Y		
79-B16	IBC	16	Figures 1609.3(5) - 1609.3(12)		Figures 1609.3(5) - 1609.3(12)	Basic Design Wind Speed Figures for Hawaii		Figures for Hawaii deleted in 2024.	N	N			A	A	Y		

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80-B16	IBC	16	1609.5; Figure 1609.5			Tornado Loads; Tornado-Prone Regions		New in 2024.	H			Discuss		A	Y		Table 5/2. Discussed 5/16-Consensus to accept.
81-B16	IBC	16	1609.6; 1609.6.1; 1609.6.2	1609.5; 1609.5.1; 1609.5.2	1609.5; 1609.5.1; 1609.5.2	Roof Systems; Roof Deck; Roof Coverings		Renumbered 2024. Adds tornado pressures 2024. Moves Asphalt Shingles to its own subsection.	H	L				A	Y		Table 5/2. Discussed 5/16-Consensus to accept.
82-B16	IBC	16	1609.6.2.1			Asphalt Shingles		New section in 2024. Was combined with Roof Coverings. Language similar.	H	L				A	Y		Table 5/2. Discussed 5/16-Consensus to accept.
83-B16	IBC	16	1609.6.3; 1609.6.3.1; 1609.6.3.2	1609.5.3	1609.5.3	Rigid Tile; Aerodynamic Uplift; Tornado Loads		Renumbered 2024. Reorganizes. Adds tornado loads.	H	L				A	Y		Table 5/2. Discussed 5/16-Consensus to accept.
84-B16	IBC	16	1609.7			Elevators, Escalators and Other Conveying Systems		New in 2024. Where exposed to outdoors, use ASCE 7 for wind.	H	L				A	Y		Table 5/2. Discussed 5/16-Consensus to accept.
85-B16	IBC	16	1610	1610	1610	Soil Loads and Hydrostatic Pressure		Renamed section 2021.	N	N				A	Y		
85.1-B16	IBC	16	1610.2			Uplift Loads								A	Y		
86-B16	IBC	16	1610.1	1610.1	1610.1	Lateral Pressures		Renamed section 2021 - was "General." Clarifying language changes in 2021. More clarifying language changes in 2024.	H	N				A	Y		
87-B16	IBC	16	1611.1	1611.1	1611.1	Design Rain Loads		Section rewritten 2024.	H	L				A	Y		
88-B16	IBC	16	Deleted	Figures 1611.1(1); 1611.1(2); 1611.1(3); 1611.1(4); 1611.1(5)	Figure 1611.1	100-Year, 1-Hour Rainfall, Western US; Central US; Eastern US; Alaska; Hawaii		Renumbered 2021. Deleted 2024. New 1611.1 refers to new Table 1611.1.	H	L				A	Y		
89-B16	IBC	16	Table 1611.1			Design Storm Return Period by Risk Category		New in 2024.	H	L				A	Y		

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90-B16	IBC	16	1612.2	1612.2	1612.2	Flood Loads Design and Construction		Revised in 2024. MR 1305.0011 Subp. 5 deletes flood hazard and floodproofing provisions and references MR 1335 Floodproofing Regulations. <i>(NOTE: In January, 2022, MN Construction Codes Advisory Council accepted the Flood Resistant Design TAG's recommendation to revise flood regs by adopting ASCE Standard 24-14 Flood Resistant Design and Construction. Rulemaking not completed.)</i>	N	N			A	Y		
91-B16	IBC	16	1613	1613	1613	Earthquake Loads (all subsections)		Revised in 2024. MR 1305.0011 Subp. 4 deletes seismic and earthquake provisions.	N	N			A	Y		
92-B16	IBC	16	1614.1	1614.1	1614.1	Atmospheric Ice Loads		In 2024, exception added for temporary structures complying with IBC 3103.6.1.6. <i>(NOTE: 3103.6.1.6 revised in 2024.)</i>	M	L			A	Y		
IBC/MR 1305 Chapter 17 - Special Inspections and Tests																
93-B17	IBC	17	1704.2.4		1704.2.4	Report Requirement		Change in 2024. Adds SI reports submitted..." <i>at frequencies required by the approved construction documents or building official . All reports shall describe the nature and extent of inspections and tests, the location where the inspections and tests were performed, and indicate...</i> "	H	L			A	Y		
94-B17			1704.3.1		1704.3.1	Content of Special Inspections		Change in 2024. To list of statement of SI, adds Item "6. <i>Deferred submittal items that require a supplemental statement of special inspections.</i> "	H	L			A	Y		
95-B17	IBC	17	1704.6	1704.6	1704.6	Structural Observations		Change in 2021. Adds " <i>The structural observer shall visually observe representative locations of structural systems, details and load paths for general conformance to the approved construction documents.</i> "	H	L			A	Y		
96-B17	IBC	17	1704.6.1	1704.6.1	1704.6.1	Structural Observations for structures		Change in 2021. Adds Risk Category III.	H	M			A	Y		
97-B17	IBC	17	1705.2.2; Table 1705.2.6			Req'd Special Inspections		New in 2024. " <i>Structural stainless steel. Special inspections and nondestructive testing of structural stainless steel elements in buildings and portions thereof shall be in accordance with the quality assurance inspection requirements of AISI 370.</i> " Table indicates insp items and reqs periodic SI.	H	M			A	Y		

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98-B17	IBC	17	1705.2.6			Metal Building Systems		New in 2024. "Special inspections of metal building systems shall be performed in accordance with Sections 1705.2.1, 1705.2.3, 1705.2.4 and 1705.2.5 and Table 1705.2.6. The approved agency shall perform inspections of the erected metal building system to verify compliance with the approved construction documents."					A	Y			
99-B17	IBC	17	Table 1705.3	Table 1705.3	Table 1705.3	Req'd SI and Tests of Concrete Construction		Change in 2021 and more change in 2024. Adds two items and several sub-items.					A	Y			
99.1-B17					1305.1705.3, Subp. 1, IBC Table 1705.3, Subp. 2 IBC 1705.4	Required Verification and Testing	Y	Subpart 1. IBC Table 1705.3. IBC Table 1705.3 is amended as follows: A. Add "Xc" to the "Periodic" column, row "7. Inspection of concrete and shotcrete placement for proper application techniques." B. Add footnote "c." to read as follows: c. Exception: Periodic verification and inspection is permitted, upon approval of the structural engineer of record and the building official. §Subp. 2. IBC section 1705.4. IBC section 1705.4 is amended by adding the following sentence to the end of the section: "Periodic verification and inspection of grout placement is permitted, upon approval of the structural engineer of record and the building official."					AM	Y		Carry forward amendment as written. Numbering remains valid.	
100-B17	IBC	17	1705.5.3; Table 1705.5.3	1705.5.3; Table 1705.5.3		SI Mass Timber		New in 2021. Addresses new HT types of construction from IBC Ch. 6.					A	Y			
101-B17	IBC	17	Table 1705.6	Table 1705.6	Table 1705.6	Req'd SI and Tests of Soils		Change in 2021. Adds "During fill placement" and references the approved Geotech report.					A	Y			
102-B17	IBC	17	1705.10	1705.10		Structural Integrity of Deep Foundation Elements		New in 2021. "Whenever there is a reasonable doubt as to the structural integrity of a deep foundation element, an engineering assessment shall be required. The engineering assessment shall include tests for defects performed in accordance with ASTM D4945, ASTM D5882, ASTM D6760 or ASTM D7949, or other approved method."					A	Y			

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103-B17	IBC	17	1705.12.1	1705.12.1	1705.12.2	Structural Wood		Change in 2021. Adds to the exception "Special inspections are not required for wood shear walls , shear panels and diaphragms , including nailing, bolting, anchoring and other fastening to other elements of the main wind force resisting system , where the lateral resistance is provided by structural sheathing and the specified fastener spacing at panel edges is more than 4 inches (102 mm) on center."					A	Y			
104-B17	IBC	17	1705.12.2	1705.12.2	1705.12.3	Cold-formed Steel Light-Frame Construction		Change in 2021. Specifies in exception Item that fastener spacing is meant to be at the sheet edges.					A	Y			
105-B17	IBC	17	1709.5	1709.5	1709.5	Preconstruction Load Tests, Exterior Window and Door Assemblies		Change in 2021. Exception revised.					A	Y			
106-B17	IBC	17	1709.5.2; 1709.5.2.1	1709.5.2; 1709.5.2.1	1709.5.2	Preconstruction Load Tests, Exterior Window and Door Assemblies Not Provided for in 1709.5.1		Revised 201 testing in accordance with E331-2000(2016). Garage doors and rolling doors new in 2021.					A	Y			
107-B17	IBC	17	1709.5.3; 1709.5.3.1	1709.5.3; 1709.5.3.1		Preconst. Load Tests, Windborne debris protection; Impact Protective Systems Testing and Labeling		New in 2021.					A	Y			
IBC/MR 1305 Chapter 18 - Soils and Foundations																	
108-B18	IBC	18	1803.5.1; 1803.5.2; 1805.5.3	1803.5	1803.5	Geotech Investigations, Investigated Conditions, Classification of Soil and Rock. Questionable Soil and Rock, Expansive Soil		Change in 2024. Addresses rock. Sieve tests changes to ASTM D6913.					A	Y			

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109-B18	IBC	18	1803.5.4	1803.5.4	1803.5.4	Geotech Investigations, Investigated Conditions, Groundwater		Change in 2024. Rewritten, eliminates exception for waterproofing.					A	Y			
110-B18	IBC	18	1803.5.6	1803.5.6	1803.5.6	Geotech Investigations, Investigated Conditions, Rock Strata		Change in 2024. Language change requires geotech assessment where constructed on or in rock.					A	Y			
111-B18	IBC	18	1803.5.7	1803.5.7	1803.5.7	Geotech Investigations, Investigated Conditions, Excavation Near Foundations		Change in 2021. Language change including allows use of subsurface data.					A	Y			
112-B18	IBC	18	1806.1	1806.1	1806.1	Presumptive Load-Bearing Values of Soils		Change in 2021. changes "basic" to "allowable stress design".					A	Y			
113-B18	IBC	18	1807.2.4	1807.2.4		Retaining Walls, Segmental Retaining Walls		New in 2021. <i>Segmental retaining walls. Dry-cast concrete units used in the construction of segmental retaining walls shall comply with ASTM C1372.</i>					A	Y			
114-B18	IBC	18	1807.2.5; 1807.2.5.1 to 1807.2.5.3			Retaining Walls, Guards		New in 2024. <i>At retaining walls located within 36 inches (914mm) of walking surfaces, a guard shall be required between the walking surface and the open side of the retaining wall where the walking surface is located more than 30 inches (762 mm) measured vertically to the surface or grade below at any point within 36 inches (914mm) horizontally to the edge of the open side. Guards shall comply with Section 1607.9.</i>					A	Y			

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114.1-B18					1305.1809.5	Shallow Foundations	Y	1305.1809 SECTION 1809, SHALLOW FOUNDATIONS. IBC section 1809.5 is amended to read as follows: 1809.5 Frost protection. Except where otherwise protected from frost, foundations and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods: 1. extending below the frost line specified in Minnesota Rules, part 1303.1600; 2. constructing in accordance with ASCE 32; or 3. erecting on solid rock. Exception: Freestanding buildings constructed in accordance with Minnesota Rules, chapter 1303, shall not be required to be protected. Shallow foundations shall not bear on frozen soil.						AM	Y		Carry forward amendment.
114.2-B18					1305.1809.5	Shallow Foundations, Frost Protection		MN Amendment adds reference to MN Rules 1303.1600 and adds exception for freestanding buildings per MR 1303.						AM	Y		Carry forward amendment.
115-B18	IBC	18	1809.5.1	1809.5.1		Shallow Foundations, Frost Protection at Required Exits		New 2021. <i>Frost protection shall be provided at exterior landings for all required exits with outward-swinging doors. Frost protection shall only be required to the extent necessary to ensure the unobstructed opening of the required exit doors.</i>						A	Y		
116-B18	IBC	18	1809.14			Shallow Foundations, Grade Beams		New in 2024. <i>Grade beams shall comply with the provisions of ACI 318. Exception: Grade beams not subject to differential settlement exceeding one-fourth of the thresholds specified in ASCE 7 Table 12.13-3 and designed to resist the seismic load effects including overstrength factor in accordance with Section 2.3.6 or 2.4.5 of ASCE 7 need not comply with ACI 318 Section 18.13.3.1.</i>						A	Y		

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117-B18	IBC	18	1810.2.2	1810.2.2	1810.2.2	Deep Foundations, Stability		Exception 1 revised 2024. Isolated cast-in-place deep foundation elements without lateral bracing shall be permitted where the least horizontal dimension is not less than 2 feet, adequate lateral support in accordance with Section 1810.2.1 is provided for the entire height <i>and analysis demonstrates that the element can support the required loads, including mislocations required by Section 1810.3.1.3, with neither harmful distortion nor instability in the structure . the height does not exceed 12 times the least horizontal dimension.</i>						A	Y		
118-B18	IBC	18	Table 1810.3.2.6	Table 1810.3.2.6	Table 1810.3.2.6	Allowable Stresses for Materials Used in Deep Foundation Elements		Changes in 2021. See Table.						A	Y		
119-B18	IBC	18	1810.3.3.1 Ex.	1810.3.3.1 Ex.		Determination of Allowable Axial Loads		Exception added 2021. <i>Where approved by the building official, load testing is not required.</i>						A	Y		
120-B18	IBC	18	1810.3.3.1.9	1810.3.3.1.9	1810.3.3.1.9	Design and Detailing, Helical Piles		Change in 2021. Item 1 revised. <i>Base capacity plus shaft resistance of the helical pile . The base capacity is equal to the sum of the areas of the helical bearing plates times the ultimate bearing capacity of the soil or rock comprising the bearing stratum. The shaft resistance is equal to the area of the shaft above the uppermost helical bearing plate times the ultimate skin resistance. Also, added to Item 3 where required by Section 1810.3.3.1.2.</i>						A	Y		
121-B18	IBC	18	1810.3.11	1810.3.11	1810.3.11	Design and Detailing, Pile Caps		Added language in 2021. <i>Pile caps shall conform with ACI 318 and this section.</i>						A	Y		
122-B18	IBC	18	1810.4.1.2	1810.4.1.2	1810.4.1.2	Installation, Structural Integrity, Shafts in Unstable Soils		Revised in 2021. Section heading changed. Also - <i>Where cast-in-place deep foundation elements are formed through unstable soils and concrete is placed in an open drilled hole, a casing shall be inserted in the hole, the open hole shall be stabilized by a casing, slurry, or other approved method prior to placing the concrete</i>						A	Y		

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123-B18	IBC	18	1810.4.1.3	1810.4.1.3	1810.4.1.3	Installation, Structural Integrity, Driving Near Uncased Concrete		Revised in 2021. Deep foundation elements shall not be driven within six element diameters center to center in granular soils or within one-half the element length in cohesive soils of an uncased element filled with concrete less than 48 hours old unless approved by the building official . If <i>driving near uncased concrete elements causes</i> the concrete surface in any completed element risers or drops <i>to rise or drop significantly or bleed additional water</i> , the completed element shall be replaced. Driven uncased deep foundation elements shall not be installed in soils that could cause heave.					A	Y			
124-B18	IBC	18	1810.4.5	1810.4.5	1810.4.5	Installation, Vibratory Driving		Two exceptions added 2021.					A	Y			
IEBC/MR 1311 Conservation Code for Existing Buildings - Structural Items																	
125-EB4	IEBC	4	405.1	405	405	Repairs - Structural - General		Revision in 2024. 405.1 General. Structural <i>damage repairs</i> shall be <i>repaired</i> in compliance with this section and Section 401.2			1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.		A	Y			

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126-EB4	IEBC	4	405.1.1			Repairs - Structural - General - Structural Concrete		New in 2024. <i>405.1.1 Structural concrete. Repair of structural concrete shall be permitted to comply with ACI 562 Section 1.7, except where Section 405.2.2, 405.2.3 or 405.2.4.1 requires compliance with Section 304.3.</i>				1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.		A	Y		
127-EB4	IEBC	4	405.2.3.1	405.2.3.1	405.2.3.1	Repairs - Structural - Repairs to Damaged Buildings - Substantial Structural Damage to Vertical Elements of the Lateral Force-Resisting System - Evaluation		Revised 2024. 405.2.3.1 Evaluation. The building shall be evaluated by a registered design professional, and the evaluation findings shall be submitted to the code official. The evaluation shall establish whether the <i>lateral force-resisting system of the</i> damaged building, <i>including its foundation</i> , if repaired to its predamage state, would comply with the provisions of the International Building Code for load combinations that include wind or earthquake effects, except that the seismic forces shall be the reduced seismic forces and with Section 304.3.2 of this code.				1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.		A	Y		

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128-EB4	IEBC	4	405.2.3.3	405.2.3.3	405.2.3.3	Repairs - Structural - Repairs to Damaged Buildings - Substantial Structural Damage to Vertical Elements of the Lateral Force-Resisting System - Extent of Repair for Noncompliant Buildings		Revised 2024. 405.2.3.3 Extent of repair for noncompliant buildings. If the evaluation does not establish that the <i>lateral force-resisting system of the</i> building in its predamage condition complies with the provisions of Section 405.2.3.1, then the building <i>lateral force-resisting system, and its foundation</i> , shall be retrofitted to comply with the provisions of this section. The wind loads for the repair and retrofit shall be those required by the building code in effect at the time of original construction, unless the damage was caused by wind, in which case the wind loads shall be in accordance with the International Building Code. The seismic retrofit shall comply with Section 304.3.2 of this code, but the earthquake loads for this retrofit design shall not be less than those required by the building code In effect at the time of original construction, but not less than the reduced seismic forces.				1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.		A	Y		
129-EB4	IEBC	4			1311.0405.2.4	Repairs - Structural - Substantial Structural Damage to Gravity Load-Carrying Components	Y	For REPAIRS. Amendment requires demonstration that components have capacity to carry design loads of rehabbed components. Current amendment and also new language in model code.				1311 TAG consensus to carry forward amendment if acceptable to Structural TAG. CCP likely forthcoming from interested party.		AM (D)	Y		Delete amendment.

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	Code	Chapter															
130-EB4	IEBC	4	405.2.4	405.2.4	Amended		Revised 2024. 405.2.4 Substantial structural damage to gravity load-carrying components. Gravity load-carrying components that have sustained substantial structural damage shall be retrofitted rehabilitated to comply with <i>the applicable provisions for dead, live and snow loads in the International Building Code. Undamaged gravity</i> load-carrying components, <i>including undamaged foundation components</i> , that receive dead, live or snow loads from retrofitted rehabilitated components shall also be retrofitted rehabilitated if required to comply with <i>these</i> the design loads of the rehabilitation design.						A	Y			
131-EB5	IEBC	5	502.1	502.1		Prescriptive - Additions - General	Revised in 2024. 502.1 General. Additions to any building or structure shall comply with the requirements of the IBC for new construction. Alterations to the existing building or structure shall be made to ensure that the existing building or structure together with the addition are not less complying with the provisions of the International Building Code than the existing building or structure was prior to the addition <i>except that the structural elements need only comply with Sections 502.2 through 502.3</i> . An existing building together with its additions shall comply with the height and area provisions of Chapter 5 of the IBC. <i>Where a new occupiable roof is added to a building or structure, the occupiable roof shall comply with the provisions of the IBC. Exception: In-filling of floor openings and nonoccupiable appendages such as elevator and exit stairway shafts shall be permitted beyond that permitted by the IBC.</i>				1311 TAG consensus to accept if acceptable to Structural TAG.		A	Y			

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Item Number	2024 Code and Chapter		2024 Code & Section	2021 Code & Section	2020 MN Code Section	Code Section Heading/Topic	MN Amendment?	Description of change(s) to code language	Safety/Health Value N - None, L - Low, M - Med, H - High	Cost Impact	Staff Comment	Staff Recommendation	TAG Recommendation	TAG Group Consensus Y or N	Stakeholder Consensus Y or N	Comments
	Code	Chapter														
132-EB5	IEBC	5	502.1.1			Prescriptive - Additions - Risk Category Assignment		New in 2024. 502.1.1 Risk category assignment. Where the addition and the existing building have different occupancies, the risk category of each existing and added occupancy shall be determined in accordance with Section 1604.5.1 of the International Building Code. Where application of that section results in a higher risk category for the existing building compared with the risk category for the existing building before the addition, such a change shall be considered a change of occupancy and shall comply with Section 506 of this code. Where application of that section results in a higher risk category for the addition compared with the risk category for the addition by itself, the addition and any systems in the existing building required to serve the addition shall comply with the requirements of the International Building Code for new construction for the higher risk category.			1311 TAG consensus to accept if acceptable to Structural TAG.		A	Y		
133-EB5	IEBC	5	502.1.2			Prescriptive - Additions - Creation or Extension of Nonconformity		New in 2024. 502.1.2 Creation or extension of nonconformity. An addition shall not create or extend any nonconformity in the existing building to which the addition is being made with regard to accessibility, structural strength, supports and attachments for nonstructural components, fire safety, means of egress or the capacity of mechanical, plumbing or electrical systems. Exception: Nonconforming supports and attachments for nonstructural components that serve the addition from within the existing building need not be altered to comply with International Building Code Section 1613 unless the components are part of the addition's life-safety system or are required to serve an addition assigned to Risk Category IV.			1311 TAG consensus to accept if acceptable to Structural TAG. Request input on cost.		A	Y		

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Item Number	2024 Code and Chapter		2024 Code & Section	2021 Code & Section	2020 MN Code Section	Code Section Heading/Topic	MN Amendment?	Description of change(s) to code language	Safety/Health Value	Cost	Impact	Staff Comment	Staff Recommendation	TAG Recommendation	TAG Group Consensus Y or N	Stakeholder Consensus Y or N	Comments
	Code	Chapter															
134-EB5	IEBC	5			MR 1311.502.4	Prescriptive - Additions - Existing Structural Elements Carrying Gravity Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).				1311 TAG consensus to carry forward amendment if acceptable to Structural TAG.		AM (D)	Y		Delete amendment.
135-EB5	IEBC	5	502.3	502.4	Amended	Prescriptive - Additions - Existing Structural Elements Carrying Gravity Loads		Renumbered 2024.						A	Y		
136-EB5	IEBC	5			MR 1311.0502.5	Prescriptive - Additions - Existing Structural Elements Carrying Lateral Loads	Y	Exception #1 added. Increase demand-capacity ratio (cumulative) to >110% requires replacement or alteration. (additional provisions - see full text).				1311 TAG consensus to carry forward amendment if acceptable to Structural TAG.		AM (D)	Y		Delete amendment.

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Structural TAG Review Worksheet 1303, 1305 IBC, 1311 IEBC											Recommendations A - Accept Model Code AM - Amend Model Code						
Item Number	2024 Code and Chapter		2024 Code & Section	2021 Code & Section	2020 MN Code Section	Code Section Heading/Topic	MN Amendment?	Description of change(s) to code language	Safety/Health Value Cost Impact			Staff Comment	Staff Recommendation	TAG Recommendation	TAG Group Consensus Y or N	Stakeholder Consensus Y or N	Comments
	Code	Chapter							N - None, L - Low, M - Med, H - High								
137-EB5	IEBC	5	502.4	502.5	Amended 1311.0502.5	Prescriptive - Additions - Existing Structural Elements Carrying Lateral Loads		Renumbered and revised in 2024. . Main change is in Ex. 1: 1. Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10% greater than its demand-capacity ratio with the addition ignored 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 Section 1609 Sections 1609 and 1613 of the IBC. 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. <i>When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 1609 of the IBC or the code wind forces in effect at the time....(seismic)</i>					A	Y			
138-EB5	IEBC	5	503.1	503.1	503.1	Prescriptive - Alterations - General		Revised in 2021 and 2024. <i>Alterations to any building or structure shall</i> comply with the requirements of the IBC for new construction. Alterations shall be such that the existing building or structure is not less complying with the provisions of the IBC than the existing building or structure was prior to the alteration, <i>except that the structural elements need only comply with Sections 503.2 through 503.12.</i> Exceptions not structural-related.					A	Y			

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Item Number	2024 Code and Chapter		2024 Code & Section	2021 Code & Section	2020 MN Code Section	Code Section Heading/Topic	MN Amendment?	Description of change(s) to code language	Safety/Health Value	Cost	Impact	Staff Comment	Staff Recommendation	TAG Recommendation	TAG Group Consensus Y or N	Stakeholder Consensus Y or N	Comments
	Code	Chapter															
139-EB5	IEBC	5	503.3		1311.0503.3	Prescriptive - Alterations - Existing Structural Elements Carrying Gravity Load	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).				1311 TAG consensus to carry forward amendment if acceptable to Structural TAG.		AM (D)	Y		Delete amendment.
140-EB5	IEBC	5			1311.0503.4	Prescriptive - Alterations - Existing Structural Elements Carrying Lateral Load	Y	Increase in demand-capacity ratio (cumulative) to <= 110% may remain unaltered, considered per IBC 1609.						AM (D)	Y		Delete amendment.
141-EB5	IEBC	5	503.4	503.4		Prescriptive - Alterations - Existing Structural Elements Carrying Lateral Load		2021 Ex 2 added: 2. Buildings in which the increase in the demand-capacity ratio is due entirely to the addition of rooftop-supported mechanical equipment individually having an operating weight less than 400 pounds (181.4 kg) and where the total additional weight of all rooftop equipment placed after initial construction of the building is less than 10 percent of the roof dead load. 2024 changes: charging paragraph - structure lateral force-resisting system ; drops compliance with 1613; adds compliance with IEBC 304.2. Ex. 1 revised similarly, adds wind and earthquake guidance. Ex. 3 added (seismic). MN amendment rewords Exception 1.						A	Y		
142-EB5	IEBC	5	503.6, 503.7, 503.8, 503.9, 503.10, 503.11, 503.12,	503.6, 503.7, 503.8, 503.9, 503.10, 503.11, 503.12,	503.6, 503.7, 503.8, 503.9, 503.10, 503.11, 503.12	Prescriptive - Alterations - Bracing and Anchorage for Parapets, Bracing and Anchorage for Masonry Walls, Substantial Structural Alteration, Roof Diaphragms Resisting Wind Loads,		Several 2024 changes in these sections, some referencing IEBC Ch 304.2. 503.12 Roof Diaphragm revised 2021 and 2024, changed to basic wind speed 130.						A	Y		

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	Code	Chapter															
143-EB5	IEBC	5	503.13	503.13	503.13	Prescriptive - Alterations - Voluntary Lateral-Force Resisting Systems		Structural alterations that are intended exclusively to improve the lateral force-resisting system and are not required by other sections of this code shall not be subject to the structural requirements of Section 503 required to meet the requirements of Section 1609 or 1613 of the IBC, provided that all of the following apply: 1. With the alteration complete , the The capacity of existing structural systems to resist forces is not reduced. 2. New structural elements are detailed and connected to existing or new structural elements as required by the selected design criteria . IBC for new construction. Exception: New lateral force-resisting systems designed in accordance with the IBC are permitted to be of a type designated as "Ordinary" or "Intermediate" where ASCE 7 Table 12.2-1 states these types of systems are not permitted. 3. Supports and attachments for New or relocated nonstructural elements removed and reinstalled to facilitate the work comply with are detailed and connected to existing or new structural elements as required by the IBC for new construction. 4. The alterations do not create a structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe. Exception: Condition 4 need not be satisfied where the work complies with Section 304.3.2, Item 3.						A	Y		
144-EB5	IEBC	5			1311.0506.4.1	Prescriptive - Change of Occupancy - Structural - Live Loads		Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).					AM (D)	Y		Delete amendment.	
144-EB5	IEBC	5	506.5.3; 506.5.4	506.5.3; 506.5.4	506.4.3; 506.4.4	Prescriptive - Change of Occupancy - Seismic and Access to Risk Cat IV		506.5.3 renumbered and seismic changes in 2021 and 2024. In 2024, structures providing access to RC IV comply with 1608, 1609, and IEBC 304.3.1.					A	Y			
145-EB7	IEBC	7	705.1	705.1	705.1	Level 1 Alterations - Reroofing - General		For Ex. 1 and 2, adds requirement to comply with IBC Snow and Rain Loads					A	Y			

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	Code	Chapter																
146-EB7	IEBC	7	1501.3	1501.2.1	705.2	Level 1 Alterations - Reroofing - Structural and Construction Loads		In 2021, moved to Chapter 15, then renumbered. (MN amends to delete IEBC Ch 15 and redirect to IBC Ch 33, but this provision is not in IBC Ch 33).						A	Y		Addressed in IBC 3301.	
147-EB7	IEBC	7	705.2	705.2	705.3	Level 1 Alterations - Reroofing - Roof Replacement		<p>Changes in 2024. Roof replacement shall include the removal of all existing layers of roof coverings down to the roof deck.</p> <p>Exception 1. Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck <i>and the existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing</i>, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with Section 1507 of the IBC <i>where permitted by the roof-covering manufacturer and new ice-barrier underlayment manufacturer.</i></p> <p>2. <i>Where the existing roof includes a self-adhered underlayment and the existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing, the existing self-adhered underlayment shall be permitted to remain in place and covered with an underlayment complying with Tables 1507.1.1(1), 1507.1.1(2) and 1507.1.1(3) of the IBC.</i></p> <p>3. <i>Where the existing roof includes one layer of self-adhered underlayment and the existing layer cannot be removed without damaging the roof deck, a second layer of self-adhered underlayment is permitted to be installed over the existing self-adhered underlayment provided all of the following conditions are met:</i></p> <p>3.1 <i>It is permitted by the roof-covering manufacturer and self-adhered underlayment manufacturer.</i></p>										

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	Code	Chapter															
148-EB7	IEBC	7			1311.0706.2	Alterations L 1 - Structural - Addition or replacement of Roofing or Replacement of Equipment		3. Where the existing roof includes one layer of self-adhered underlayment and the existing layer cannot be removed without damaging the roof deck, a second layer of self-adhered underlayment is permitted to be installed over the existing self-adhered underlayment provided all of the following conditions are met: 3.1 It is permitted by the roof-covering manufacturer and self-adhered underlayment manufacturer. 3.2 The existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing. 3.3 The second layer of self-adhered underlayment is installed such that buildup of material at walls, valleys, roof edges, end laps and side laps does not exceed two layers. Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).						AM (D)	Y		
149-EB7	IEBC	7	706.3.1	706.3.1	706.3.1	Alterations L 1 - Additional Requirements for Reroof Permits - Bracing for unreinforced Masonry Bearing Wall Parapets. Bracing for Unreinforced Masonry Bearing Wall Parapets		Change in 2024. Only for seismic.						A	Y		
150-EB7	IEBC	7	706.3.2	706.3.2	706.3.2	Alterations L 1 - Additional Requirements for Reroof Permits - Roof Diaphragms Resisting Wind Loads in High-Wind Regions		Change in 2021 and again in 2024. Roof Diaphragm revised 2021 and 2024, changed to basic wind speed 130.						A	Y		

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	Code	Chapter															
151-EB8	IEBC	8			1311.0806.2	Alterations L 2 - Structural, Existing Structural Elements Carrying Gravity Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).					AM (D)	Y			
152-EB8	IEBC	8			1311.0806.3	Alterations L 2 - Structural, Existing Structural Elements Resisting Lateral Loads	Y	Increase in demand-capacity ratio (cumulative) to <= 110% may remain unaltered, considered per IBC 1609.					AM (D)	Y			
153-EB8	IEBC	8	805.3	805.3	806.3	Alterations L 2 - Structural, Existing Structural Elements Resisting Lateral Loads		Revised 2024. Similar to 502.5. Ex. 2 added, similar to 503.4. Ex. 3 added - seismic.					A	Y			
154-EB8	IEBC	8	805.4		806.4	Alterations L 2 - Structural, Voluntary Lateral Force-Resisting System Alterations		Revised 2024. Similar to 503.13.					A	Y			
155-EB9	IEBC	9	Section 906	Section 906	Section 906	Alterations L 3 - Structural		Changes in 2024, structural, seismic except as noted.					A	Y			
156-EB9	IEBC	9	906.2	906.2	906.2	Alterations L 3 - Structural - Existing Structural Elements Resisting Lateral Loads		Changes in 2024. Substantial structural alterations, lat. load resisting system comply with IBC 1609 and IEBC 304.3.2. Ex. 2 revised: 2. Where the intended alteration involves only the lowest story of a building, only the structural components of the lateral load resisting system above components in and below that story need not comply with this section.			Note the structural MN amendments appearing in other chapters do not appear in Ch 9 of the printed book.		A	Y			
157-EB10	IEBC	10			1311.1006.1	Change of Occupancy - Structural, Live Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).					AM (D)	Y			

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	Code	Chapter															
158-EB11	IEBC	11	1101.2;	1101.2	1101.2	Additions - General - Creation or Extension of Nonconformity		Revised and added exception in 2024. An addition shall not create or extend any nonconformity in the existing building to which the addition is being made with regard to accessibility, structural strength, <i>supports and attachments for nonstructural components</i> , fire safety, means of egress or the capacity of mechanical, plumbing or electrical systems. <i>Exception: Nonconforming supports and attachments for nonstructural components that serve the addition from within the existing building need not be altered to comply with IBC Section 1613 unless the components are part of the addition's life safety system or are required to serve an addition assigned to Risk Category IV.</i>						A	Y		
159-EB11	IEBC	11	1102.3			Additions - General - Risk Category Assignment		New in 2024. <i>Risk category assignment. Where the addition and the existing building have different occupancies, the risk category of each existing and added occupancy shall be determined in accordance with Section 1604.5.1 of the IBC. Where application of that section results in a higher risk category for the existing building compared with the risk category for the existing building before the addition, such a change shall be considered a change of occupancy and shall comply with Chapter 10 of this code. Where application of that section results in a higher risk category for the addition compared with the risk category for the addition by itself, the addition and any systems in the existing building required to serve the addition shall comply with the requirements of the IBC for new construction for the higher risk category.</i>						A	Y		
160-EB11	IEBC	11			1311.1103.1	Additions - Structural - Additional Gravity Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).						AM (D)	Y		
161-EB11	IEBC	11			1311.1103.2	Additions - Structural - Lateral Force-Resisting Systems	Y	Increase in demand-capacity ratio (cumulative) to <= 110% may remain unaltered, considered per IBC 1609.						AM (D)	Y		

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	Code	Chapter															
162-EB11	IEBC	11	1103.2	1103.2	1103.2	Additions, Lateral force-resisting systems		Changes in 2024. Where the addition is structurally independent of the existing structure , existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent of the existing structure, the lateral force-resisting system of the existing structure and its addition acting together as a single structure shall comply with meet the requirements of Sections 1609 Section 1609 and 1613 of the IBC and Section 304.3.1 of this code using full seismic forces. Exceptions: 1. Buildings of Group R with not 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 or the provisions of the IRC. 2. Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10 percent greater than its demand-capacity ratio with the addition ignored 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 Section 1609 Sections 1609 and 1613 of the IBC and Section 304.3.1 of this code. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the						A	Y		

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	Code	Chapter															
163-EB12	IEBC	12	1205.1	1205.1	1205.1	Historic Buildings - Structural - General		<p>cumulative effects of additions and alterations since original construction.</p> <p><i>When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 1609 of the International Building Code or the code wind forces in effect at the time. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 304.3.1 or the full seismic forces in effect at the time.</i></p>									
164-EB14	IEBC	14			1311.1402.3	Relocated or Moved Buildings - Wind Loads	Y	<p>Revises exception #2. Structural elements whose demand-capacity ratio is not increased to more than 110 % (cumulative) need not comply with IBC. Model code language for exception #2: Structural elements whose stress is not increased by more than 10% need not comply with IBC or IRC.</p>						AM (D)	Y		

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	Code	Chapter															
165-EB14	IEBC	14			1311.1402.5	Relocated or Moved Buildings - Snow Loads	Y	Revises the exception. Structural elements whose demand-capacity ration is not increased to more than 105% (cumulative) need not comply with IBC where snow loads higher in new location. Model code exception: Structural elements whose stress in not increased by more than 5% need not comply with IBC or IRC.					AM (D)	Y			
166-EB16	IEBC	16	Chapter 16 ACI			Referenced Standards		In 2024 added ACI 562-21 Assessment, Repair, and Rehab of Existing Concrete Structures - Code Requirements					A	Y			
167-EB16	IEBC	16	Chapter 16 ASCE/SEI			Referenced Standards		In 2024 changes reference for ASCE/SEI Minimum Design Loads and Associated Criteria for Buildings and Other Structures from 7-2016 to 7-2022.					A	Y			
168-EB16	IEBC	16	Chapter 16 ASTM			Referenced Standards		In 2024, changes reference for Specifications for Ready-Mix Concrete C94/C94M from 15A to 21b					A	Y			
IBC/MR 1305 Chapter 19 - Concrete																	
169-B19	IBC	19	1901.2	1901.2	1901.2	Plain and Reinforced Concrete		Changes in 2021 and 2024					A	Y			
170-B19	IBC	19	1901.2.1			Structural Concrete with GFRP Reinforcement		New subsection in 2024: <i>Cast-in-place structural concrete internally reinforced with glass fiber reinforced polymer (GFRP) reinforcement conforming to ASTM D7957 and designed in accordance with ACI CODE 440.11 shall be permitted where fire-resistance ratings are not required and only for structures assigned to Seismic Design Category A.</i>					A	Y			
171-B19	IBC	19	1901.3	1901.3	1901.3	Anchoring to Concrete		Adds "screw" in 2021. "Amended" (anchoring) changed to "supplemented" in 2024.					A	Y			

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	Code	Chapter															
172-B19	IBC	19	1901.7	1901.7		Tolerances for Structural Concrete		New in 2021. 1901.7 Tolerances for structural concrete. Where not indicated in construction documents, structural tolerances for concrete structural elements shall be in accordance with this section. 1901.7.1 Cast-in-place concrete tolerances. Structural tolerances for cast-in-place concrete structural elements shall be in accordance with ACI 117. Exceptions: 1. Group R-3 detached one- or two-family dwellings are not required to comply with this section. 2. Shotcrete is not required to comply with this section. 1901.7.2 Precast concrete tolerances. Structural tolerances for precast concrete structural elements shall be in accordance with ACI ITG-7. Exception: Group R-3 detached one- or two-family dwellings are not required to comply with this section.						A	Y		
173-B19	IBC	19	Section 1902	Section 1902		Coordination of Terminology		New section in 2021. Revised in 2024. 1902.1 General. Coordination of terminology used in ACI 318 and ASCE 7 shall be in accordance with Section 1902.1.1 Sections 1902.1.1 and 1902.1.2. 1902.1.1 Design displacement. Design displacement shall be the Design Earthquake Displacement, δ_{DE}, defined in ASCE 7 Section 12.8.6.3. For diaphragms that can be idealized as rigid in accordance with ASCE 7 Section 12.3.1.2, δ_{di}, displacement due to diaphragm deformation corresponding to the design earthquake, is permitted to be taken as zero.						A	Y		
174-B19	IBC	19	1903.1	1903.1	1903.1	Specification for Tests and Materials - General		Exception deleted in 2021.						A	Y		
175-B19	IBC	19		1903.2	1903.2	Special Inspections		Deleted in 2024.						A	Y		
176-B19	IBC	19	1903.2	1903.3	1903.3	Spec for Tests and Materials - Glass Fiber-Reinforced Concrete		Renumbered in 2024. PCI MNL 128 PCI 128 standard.						A	Y		

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	Code	Chapter															
177-B19	IBC	19			1305.1904.3	Corrosion Protection	Y	Amendment adds subsection. 1904.3 Corrosion protection. Where bonded reinforcing and prestressing steel is located in concrete assigned to Exposure Class F3 or Exposure Class C2, the steel shall be protected from corrosion by one of the following methods: <i>1. Impermeable barrier.</i> <i>2. Epoxy coating in accordance with ACI 318.</i> <i>3. Hot dipped galvanizing in accordance with ACI 318.</i>									Tabled 6/6/24 MO to research ACI 318-19. Remains tabled 12/5.
178-B19	IBC	19	Section 1905	Section 1905	Section 1905	Modifications to ACI 318- Seismic Requirements		All seismic.					A	Y			
179 - B19	IBC	19	Section 1906	Section 1906	Section 1906	Structural Plain Concrete Footings for Light-Frame Construction		New language 2021. 1906.1 Plain concrete footings. For Group R-3 occupancies and buildings of other occupancies less than two stories above grade plane of light-frame construction, the required thickness of plain concrete footings is permitted to be 6 inches, provided that the footing does not extend more than 4 inches on either side of the supported wall.					A	Y			

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180-B19	IBC	19	Section 1907	Section 1907	Section 1907	Minimum Slab Provisions Slabs-on-Ground		<p><i>New language in 2024. 1907.1 Structural slabs-on-ground. Structural concrete slabs-on-ground shall comply with all applicable provisions of this chapter. Slabs-on-ground shall be considered structural concrete where required by ACI 318 or where designed to transmit either of the following:</i></p> <ol style="list-style-type: none"> <i>Vertical loads or lateral forces from other parts of the structure to the soil.</i> <i>Vertical loads or lateral forces from other parts of the structure to foundations.</i> <p><i>1907.2 Nonstructural slabs-on-ground. Nonstructural slabs-on-ground shall be required to comply with Sections 1904.2, 1907.3 and 1907.4. Portions of the nonstructural slabs-on-ground used to resist uplift forces or overturning shall be designed in accordance with accepted engineering practice throughout the entire portion designated as dead load to resist uplift forces or overturning.</i></p> <p><i>1907.3 Thickness. The thickness of concrete floor slabs supported directly on the ground shall be not less than 3 1/2 inches.</i></p>					A	Y			

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181-B19	IBC	19	Section 1908	Section 1908	Section 1908	Shotcrete	<p>1907.4 Vapor retarder. The thickness of concrete floor slabs supported directly on the ground shall be not less than 31/2 inches. A 6-mil polyethylene vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the base course or subgrade and the concrete floor slab, or other approved equivalent methods or materials shall be used to retard vapor transmission through the floor slab.</p> <p>Exception: A vapor retarder is not required:</p> <ol style="list-style-type: none"> 1. For detached structures accessory to occupancies in Group R-3, such as garages, utility buildings or other unheated facilities . 2. For unheated storage rooms having an area of less than 70 square feet (6.5 m2) and carports attached to occupancies in Group R-3. 3. For buildings of other occupancies where migration of moisture through the slab from below will not be detrimental to the intended occupancy of the building . 4. For driveways, walks, patios and other flatwork that will not be enclosed at a later date. 5. Where approved based on local site conditions. 						A	Y			
IBC/MR 1305 Chapter 21 - Masonry																	
182 - B21	IBC	21	2102.1	2102.1	2102.1	Notations	<p>Change in 2024. <i>fs = Computed stress in reinforcement due to design loads, psi (MPa).</i></p> <p><i>f' AAC = Specified compressive strength of AAC masonry, the minimum compressive strength for a class of AAC masonry as specified in TMS 602, psi (MPa).</i></p> <p><i>f' m = Specified compressive strength of masonry at age of 28 days, psi (MPa).</i></p> <p><i>f' mi = Specified compressive strength of masonry at the time of prestress transfer, psi (MPa).</i></p> <p><i>K = The lesser of the masonry cover, clear spacing between adjacent reinforcement, or five times db, inches (mm).</i></p>						A	Y			

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183 - B21	IBC	21	2103.2.4	2103.2.4	2103.2.4	Mortar for Adhered Masonry Veneer		Changed in 2024. <i>Mortar for use with adhered masonry veneer shall conform to Section 13.3 of TMS 402.</i> ASTM C270 for Type N or S, or shall comply with ANSI A118.4 for latex-modified Portland cement mortar.						A	y		
184 - B21	IBC	21	Section 2109	Section 2109	Section 2109	Empirical Design of Adobe Masonry		Revisions 2021 and deleted Equation 21-2 in 2024.						A	y		
IBC/MR 1305 Chapter 22 - Steel																	
185- B22	IBC	22	2201.2; 2201.3; 2201.4; 2201.5		2201.1	Steel, General, Scope		New sections added in 2024. <i>2201.2 Identification. Identification of steel members shall be in accordance with the applicable referenced standards within this chapter. Other steel furnished for structural load-carrying purposes shall be identified for conformity to the ordered grade in accordance with the specified ASTM standard or other specification and the provisions of this chapter. Where the steel grade is not readily identifiable from marking and test records, the steel shall be tested to verify conformity to such standards. 2201.3 Protection. The protection of steel members shall be in accordance with the applicable referenced standards within this chapter. 2201.4 Connections. The design and installation of steel connections shall be in accordance with the applicable referenced standards within this chapter. For special inspection of welding or installation of high-strength bolts, see Section 1705.2. 2201.5 Anchor rods. Anchor rods shall be set in accordance with the approved construction documents . The protrusion of the threaded ends through the connected material shall fully engage the threads of the nuts, but shall not be greater than the length of the threaded portion of the bolts.</i>						A	y		
186- B22	IBC	22	Deleted		Section 2202; 2202.1; Section 2203; Section 2204	Identification of Steel for Structural Purposes; Protection of Steel for Structural Purposes; Connections		Sections deleted in 2024. Renumbering of subsequent sections.						A	y		

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187-B22	IBC	22	Section 2202		2205	Structural Steel and Composite Structural Steel and Concrete		Change in 2024. Combines 2205 and 2206. Adds 'composite structural steel and concrete elements' in accordance with AISC 360. Everything else is seismic.					A	y			
188-B22	IBC	22	Section 2203			Structural Stainless Steel		New section in 2024. <i>The design, manufacture and erection of austenitic and duplex structural stainless steel shall be in accordance with AISC 370.</i>					A	y			
189-B22	IBC	22	Section 2204		2210	Cold-Formed Steel		Change in 2024. <i>The design of cold-formed carbon and low-alloy steel structural members not covered in Sections 2206 through 2209 shall be in accordance with AISI S100. The design of cold-formed steel diaphragms shall be in accordance with additional provisions of AISI S310 as applicable.</i> Remainder is seismic.					A	y			
190-B22	IBC	22	Section 2205			Cold-Formed Stainless Steel		New section in 2024. Design with ASCE 8.					A	y			
191-B22	IBC	22	2206.3			Cold-Formed Steel Light-Frame Construction, Cutting and Notching		Section renumbered 2024 (was 2211). Cutting and Notching new 2024. Structural members per AISI S240, non-structural per AISI S220.					A	y			
192-B22	IBC	22	Section 2207			Steel Joists		Changes in 2024 to most subsections. Use SJI 100 or SJI 200.					A	y			
193-B22	IBC	22	2208.1		2210.1.1	Steel Deck (Cold-Formed)		Steel Deck new section 2024 (was a subsection of Cold-Formed Steel). Floor, roof and composite concrete and steel design per SDI SD. Diaphragms per AISI S310.					A	y			
194-B22	IBC	22	2209.1		2209.1	Steel Storage Racks		Change in 2024. Language rearranged - no substantive Change.					A	y			
195-B22	IBC	22	2210			Metal Building Systems		New section in 2024. References applicable structural steel design code sections for components.					A	y			
196-B22	IBC	22	2211			Industrial Boltless Steel Shelving		New in section 2024. <i>The design, testing and utilization of industrial boltless steel shelving shall be in accordance with MHI ANSI/MH 28.2.</i>					A	y			
197-B22	IBC	22	2212			Industrial Steel Work Platforms		New section 2024. <i>The design, testing and utilization of industrial steel work platforms shall be in accordance with MHI ANSI/MH 28.3.</i>					A	y			
198-B22	IBC	22	2213			Stairs, Ladders, and Guarding for Steel Storage Racks and Industrial Steel Work Platforms.		New section 2024. <i>The design and installation of stairs, ladders and guarding serving steel storage racks and industrial steel work platforms shall be in accordance with MHI ANSI/MH 32.1.</i>					A	y			

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IBC/MR 1305 Chapter 23 - Wood																	
199-B23	IBC	23	2301.2		2301.2	Dimensions		Change subsection title 2024. Adds cross-laminated timber, dims are actual.					A	y			
200-B23	IBC	23	2303.1; 2303.1.4	2303.1; 2303.1.4	2303.1; 2303.1.4	Cross-Laminated Timber		2303.1 add cross-laminated timber. 2303.1.4 change title 2024.					A	y			
201-B23	IBC	23	2303.2.6 and subsections	2303.2.5	2303.2.5	Fire-Retardant Treated Wood, Design Values		Multiple language rearrangements in 2024.					A	y			
202-B23	IBC	23	2303.2.6.3			Fire -Retardant Treated Laminated Veneer Lumber.		<i>New section 2024. 2303.2.6.3 Fire-retardant-treated laminated veneer lumber. The effect of treatment and redrying after treatment and any treatment-based effects due to exposure to high temperatures and high humidities on the allowable design properties of fire-retardant treated laminated veneer lumber shall be determined in accordance with ASTM D8223. Each manufacturer shall publish reference design values and treatment-based design value adjustment factors in accordance with ASTM D8223, taking into account the climatological location.</i>					A	y			
203-B23	IBC	23	2303.4.1.2; Figures 2303.4.1.2(1-5)	2303.4.1.2	2303.4.1.2	Trusses, Permanent Individual Truss Member Restraint		<u>Change in 2021. See code text and figures.</u> https://codes.iccsafe.org/content/IBC2021P2/chapter-23-wood#IBC2021P2_Ch23_Sec2303					A	y			
204-B23	IBC	23	2304.1.3	2304.1.3	2304.1.3	Trusses Spanning 60 Feet or Greater		Change in 2021. Adds <i>and diagonal</i> bracing.					A	y			
205-B23	IBC	23	2303.7	2303.7	2303.7	Trusses, Shrinkage		Changes to language in 2021, appears non-substantive.					A	y			
206-B23	IBC	23	2304.6.1; Table 2304.6.1	2304.6.1; Table 2304.6.1	2304.6.1; Table 2304.6.1	Wood Structural Panel Sheathing; Max Basic Wind Speed Permitted		Changes in 2024. Adds <i>basic</i> wind speed. Revised values in table, adds footnote d.					A	y			

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207-B23	IBC	23	Table 2304.8(3); 2304.8(5) footnotes	Table 2304.8(3); 2304.8(5) footnotes	Table 2304.8(3); 2304.8(5) footnotes	Allowable Spans and Loads for WSPS and Single-Floor Grades Continuous over Two or More Spans with Strength Axis Perpendicular to Supports/ Parallel to Supports		Change in 2024. Adds <i>Where the total load includes snow, use allowable stress design snow loads.</i>					A	Y			
208-B23	IBC	23	2304.9	2304.9	2304.9	Lumber Decking		Change in 2021. Adds <i>Other lumber decking patterns and connection designs shall be substantiated through engineering analysis.</i>					A	y			
209-B23	IBC	23	2304.10.1	2304.10.1		Fire Protection of Connections		New in 2021, revised in 2024. <i>Connections used with fire-resistance-rated members and in fire-resistance-rated assemblies of Type IV-A, IV-B, or IV-C construction shall be protected for the time associated with the fire-resistance rating. Protection time shall be determined by one of the following:</i> <i>1. Testing in accordance with Section 703.2 where the connection is part of the fire-resistance test.</i> <i>2. Engineering analysis that demonstrates that the temperature rise at any portion of the connection is limited to an average temperature rise of 250°F (139°C), and a maximum temperature rise of 325°F (181°C), for a time corresponding to the required fire-resistance rating of the structural element being connected. For the purposes of this analysis, the connection includes connectors, fasteners and portions of wood members included in the structural design of the connection.</i>					A	y			
210-B23	IBC	23	Table 2304.10.2	Table 2304.10.2	Table 2304.10.1	Fastening Schedule		Changes in 2021. See table in code https://codes.iccsafe.org/content/IBC2021P2/chapter-23-wood#IBC2021P2_Ch23_Sec2304 Changes in 2024. See table in code https://codes.iccsafe.org/content/IBC2024P1/chapter-23-wood#IBC2024P1_Ch23_Sec2304.10					A	y			
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211-B23	IBC	23	2304.11.1.1	2304.11.1.1	2304.11.1.1	Heavy Timber, Columns		Change 2024. Columns shall be continuous or superimposed throughout all stories and connected in an approved manner. Columns shall be continuous or aligned vertically from floor to floor in all stories of Type IV-HT construction.					A	y			
212-B23	IBC	23	2304.11.4.1	2304.11.4.1	2304.11.4.1	Heavy Timber, Roof Decks		Change 2024. Cross-laminated timber roofs not less than 3 inches nominal in thickness...					A	y			
213-B23	IBC	23	2305.1; 2305.1.2	2305.1	2305.1	General Design Requirements for Lateral Force-Resisting Systems, General and Permanent Load Duration		Change in 2024. Strikes "frame" from reference to wood shear walls and diaphragms. 2305.1.2 new in 2024. 2305.1.2 Permanent loads are associated with permanent load duration in accordance with the ANSI/AWC NDS. For wood shear walls and wood diaphragms designed to resist lateral loads of permanent load duration only and that are not in combination with wind or seismic lateral loads, the design unit shear capacities shall be taken as the AWC SDPWS nominal unit shear capacities, multiplied by 0.2 for use with allowable stress design in Section 2306 and 0.3 for use with load and resistance factor design in Section 2307.					A	y			
214-B23	IBC	23	Table 2306.1	Table 2306.1	2306.1	Allowable Stress Design, Standards for Design and Construction of Wood Elements in Structures Using Allowable Stress Design		Reformatted 2021. No changes noted.					A	y			

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215-B23	IBC	23	2306.1.3	2306.1.3	2306.1.3	Preservative-Treated Wood Allowable Stresses		Treated wood stress adjustments Preservative-treated wood allowable stresses. The allowable unit stresses for preservative-treated wood conforming to AWPA U1 need not be adjusted for treatment, but are subject to other adjustments. Load duration factors greater than 1.6 shall not be used in the structural design of preservative-treated wood members. The allowable unit stresses for fire-retardant treated wood, including fastener values, shall be developed from an approved method of investigation that considers the effects of anticipated temperature and humidity to which the fire-retardant treated wood will be subjected, the type of treatment and the redrying process. Other adjustments are applicable except that the impact load duration shall not apply.					A	y			
216-B23	IBC	23	2306.1.4			Fire-Retardant Treated Wood Allowable Stresses		New in 2024. The allowable unit stresses for fire-retardant-treated wood, including connection design values, shall be developed in accordance with the provisions of Section 2303.2.6. Load duration factors greater than 1.6 shall not be used in the structural design of fire-retardant-treated wood members.					A	y			
217-B23	IBC	23	2306.1.5; Table 2306.1.5	2306.1.4; Table 2306.1.4	2306.1.4; 2306.1.4	Lumber Decking		In 2021, changed "flexure" to "moment". Renumbered in 2024.					A	y			
218-B23	IBC	23	Table 2306.3(3)	Table 2306.3(3)	Table 2306.3(3)	Allowable Shear Values for Wind or Seismic Forces for Shear Walls of Lath and Plaster of Gypsum Board Wood Framed Wall Assemblies Utilizing Staples		Change in 2021. Gypsum board, gypsum veneer base or water-resistant gypsum backing board, minimum staple size No. 16 gage galv. staple, 1-1/2" legs, 1 5/8" long					A	y			
219-B23	IBC	23	2308.1	2308.1	2308.1	Conventional Light-Frame Construction (CLFC)		Change in 2024. The requirements of this section are intended for buildings of conventional light-frame construction not exceeding the story height limitations of Section 2308.2.1. 2308.1.1 deleted.					A	y			

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	Code	Chapter														
220-B23	IBC	23	2308.2.3	2308.2.3	2308.2.3	CLFC, Allowable Loads		Changes in 2024 to Item 3, add Item 4. Ground Allowable stress design ground snow load p_f (asd) shall not exceed 50 psf 4. Where design for tornado loads is required, tornado loads on the main wind force-resisting system and all components and cladding shall not exceed the corresponding wind loads on these same elements.					A	y		
221-B23	IBC	23	2308.2.7			Hillside Light-Frame Construction		New in 2024. Design in accordance with Section 2308.3 shall be provided for the floor immediately above the cripple walls or post and beam systems and all structural elements and connections from this floor down to and including connections to the foundation and design of the foundation to transfer lateral loads from the framing above in buildings where all of the following apply: 1. The grade slope exceeds 1 unit vertical in 5 units horizontal where averaged across the full length of any side of the building. 2. The tallest cripple wall clear height exceeds 7 feet (2134 mm); or, where a post and beam system occurs at the building perimeter, the post and beam system tallest post clear height exceeds 7 feet (2134 m). 3. Of the total plan area below the lowest framed floor, whether open or enclosed, less than 50 percent is occupiable space having interior wall finishes conforming to Section 2304.7 or Chapter 25 . Exception: Light-frame buildings in which the lowest framed floor is supported directly on concrete or masonry walls over the full length of all sides except the downhill side of the building are exempt from this provision.					A	y		Confirm no inconsistency with IRC/1309.

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222-B23	IBC	23	2308.3			Portions or Elements Exceeding Limitations of Light-Frame Construction		New in 2024. <i>Portions or elements exceeding limitations of conventional light-frame construction. Where a building of otherwise conventional light-frame construction contains portions or structural elements that exceed the limits of Section 2308.2, those portions or elements, and the supporting load path, shall be designed in accordance with accepted engineering practice and the provisions of this code. For the purposes of this section, the term "portions" shall mean parts of buildings containing volume and area such as a room or a series of rooms. The extent of such design need only demonstrate compliance of the nonconventional light-framed elements with other applicable provisions of this code and shall be compatible with the performance of the conventional light-framed system.</i>					A	y			
223-B23	IBC	23	2308.4			CLFC, Structural Elements or Systems Not Described Herein		New in 2024. <i>Where a building of otherwise conventional construction contains structural elements or systems not described in Section 2308, these elements or systems shall be designed in accordance with accepted engineering practice and the provisions of this code. The extent of such design need only demonstrate compliance of the nonconventional elements with other applicable provisions of this code and shall be compatible with the performance of the conventionally framed system.</i>					A	y			
224-B23	IBC	23	2308.5			CLFC, Connectors and Fasteners		CLFM reorganized 2024. Section is new. <i>Connectors and fasteners used in conventional construction shall comply with the requirements of Section 2304.10.</i>					A	y			
225-B23	IBC	23	2308.6	2308.4.2.4; 2308.5.9; 2308.5.10 deleted in 2024	2308.4.2.4; 2308.5.9; 2308.5.10 deleted in 2024	CLFC, Cutting, Notching and Boring of Dimensional Wood Framing		In 2024. <i>The provisions of this section shall only apply to dimensional wood framing and shall not include engineered wood products, heavy timber or prefabricated/manufactured wood assemblies.</i>					A	y			

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226-B23	IBC	23	2308.6.1; 2306.1.1			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Floor Joists, Roof Rafters, and Ceiling Joists		In 2024. <i>Notches on framing ends shall not exceed one-fourth the member depth. Notches in the top or bottom of the member shall not exceed one-sixth the depth and shall not be located in the middle third of the span. A notch not more than one-third of the depth is permitted in the top of a rafter or ceiling joist not further from the face of the support than the depth of the member. Holes bored in members shall not be within 2 inches of the top or bottom of the member and the diameter of any such hole shall not exceed one-third the depth of the member. Where the member is notched, the hole shall not be closer than 2 inches to the notch.</i> <i>2308.6.1.1 Ceiling joists. Where ceiling joists also serve as floor joists, they shall be considered floor joists within this section.</i>						A	y		
227-B23	IBC	23	2308.6.2			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Wall Studs		In 2024. <i>In exterior walls and bearing partitions, a wood stud shall not be cut or notched in excess of 25 percent of its depth. In nonbearing partitions that do not support loads other than the weight of the partition, a stud shall not be cut or notched in excess of 40 percent of its depth.</i>						A	y		
228-B23	IBC	23	2308.6.3			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Bored Holes		In 2024. <i>The diameter of bored holes in wood studs shall not exceed 40 percent of the stud depth. The diameter of bored holes in wood studs shall not exceed 60 percent of the stud depth in nonbearing partitions. The diameter of bored holes in wood studs shall not exceed 60 percent of the stud depth in any wall where each stud is doubled, provided that not more than two such successive doubled studs are so bored. The edge of the bored hole shall not be closer than 5/8 inch to the edge of the stud. Bored holes shall not be located at the same section of stud as a cut or notch.</i>						A	y		

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229-B23	IBC	23	2308.6.4			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Limitations		In 2024. <i>In designated lateral force-resisting system assemblies designed in accordance with this code and greater than three stories in height or in Seismic Design Categories C, D, E and F, the cutting, notching and boring of wall studs shall be as prescribed by the registered design professional. In structures designed in accordance with the IRC, modification of wall studs shall comply with the IRC.</i>						A	y		
230-B23	IBC	23	Table 2308.8.1	Table 2308.4.1.1	Table 2308.4.1.1	CLFC, Header and Girder Spans for Ext. Bearing Walls, Allowable Stress Design Ground Snow Load		Changed in 2024 to add "allowable stress design".						A	y		
231-B23	IBC	23	Table 2308.10.1		Table 1305.2308.6.1	CLFC, Wall Bracing Requirements	Y	MN amendment table revisions shown in red here https://codes.iccsafe.org/content/MNBC2020P1/chapter-23-wood#MNBC2020P1_Ch23_Sec2308.6 No changes in 2021 or 2024 other than numbering. See 2024 table here https://codes.iccsafe.org/content/IBC2024P1/chapter-23-wood#IBC2024P1_Ch23_Sec2308.10						A	y		Carry amendment forward. Renumber.
														A	y		
232-B23	IBC	23	Table 2308.10.3 (1)	Table 2308.6.3.1 (1)	Table 2308.6.3.1 (1)	Bracing Methods		Small changes in 2021 and 2024.						A	y		
233-B23	IBC	23	Table 2308.11.3.1	Table 2308.7.3.1	Table 2308.7.3.1	Rafter Tie Connections		Table replaced in 2021. In 2024, added 'allowable stress design' to 'ground snow'.						A	y		
234-B23	IBC	23	Table 2308.11.3.1 (1)	Table 2308.7.3.1 (1)		Heel Joint Adjustment Factors		New Table in 2021.						A	y		
235-B23	IBC	23	2308.11.4	2308.7.5	2308.7.5	Wind Uplift		Exception added in 2024. <i>The truss to wall connection shall be determined from the uplift forces as specified on the truss design drawings or as shown on the construction documents.</i>						A	y		
IBC/MR 1305 Chapter 24 - Glass and Glazing																	
236-B24	IBC	24	Throughout Chapter		Throughout Chapter	Basic Wind Speed References		In 2024, throughout Chapter 24, "basic design wind speed" changed to "basic wind speed".						A	Y		TAG accepts all instances.

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237-B24	IBC	24	2407.1.1		2407.1.1		2407.1.1 Loads. Glass handrails and guards and their support systems shall be designed to withstand the loads specified in Section 1607.9. Glass handrails and guards shall be designed using a factor of safety of four. Calculated stresses for the loads specified in Section 1607.9 shall be less than or equal to 3,000 pounds per square inch (20.7 MPa) for heatstrengthened glass and less than or equal to 6,000 pounds per square inch (41.4 MPa) for fully tempered glass.							A	Y		
238-B24	IBC	24	2409.1		2409.1	Glass Walkways	Reorganized to create items 1 and 2. 2409.1 Glass walkways. Glass installed as a part of a floor/ceiling assembly as a walking surface and constructed with laminated glass shall comply with either of the following: 1. ASTM E2751. 2. Load requirements specified in Chapter 16 and approval in accordance with the provisions of Section 104.2.3. Such assemblies shall comply with the fire-resistance rating and marking requirements of this code where applicable.							A	Y		
IBC/MR 1305 Chapter 30 - Elevators and Conveying Systems																	
239-B30	IBC	30	3001.6			Structural Design	New section 2024. 3001.6 Structural design. All interior and exterior elevators, escalators and other conveying systems and their components shall comply with all applicable design loading criteria in Chapter 16, including wind, flood and seismic loads established in Sections 1609, 1612 and 1613.							A	Y		
IBC/MR 1305 Chapter 31 - Special Construction																	
240-B31	IBC	31	3103.1.1			Temporary Structures, Extended Period of Service Time	New in 2024. Provides requirements for extensions of service time, including analysis by design pro for adequacy to resist 3103.6 structural loads.							A	Y		

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241-B31	IBC	31	3103.6; 3103.6.1; 3103.6.1.1; T3106.1.1; 3103.6.1.2; T3103.6.1.2; 3103.3.6.1.3; 3103.6.1.4; 3103.6.1.5; 3103.6.1.6			Temporary Structures, Structural Requirements		New in 2024. Section addresses structural requirements for temporary structures, risk categories, structural loads including snow, wind, flood, seismic, ice and tsunami loads.						A	Y		
242-B31	IBC	31	3103.6.2			Temporary Structures, Foundations		New in 2024. <i>Foundations. Public-occupancy temporary structures shall be permitted to be supported on the ground with temporary foundations where approved by the building official. Consideration shall be given for the impacts of differential settlement where foundations do not extend below the ground or where foundations are supported on compressible materials. The presumptive load-bearing value for public-occupancy temporary structures supported on a pavement, slab on grade or on other collapsible or controlled low-strength substrate soils such as beach sand or grass shall be assumed not to exceed 1,000 pounds per square foot (47.88 kPa) unless determined through testing and evaluation by a registered design professional. The presumptive load-bearing values listed in Table 1806.2 shall be permitted to be used for other supporting soil conditions.</i>						A	Y		
243-B31	IBC	31	Section 3114		Section 3115	Intermodal Shipping Containers		Entire section new in 2021, renumbered in 2024. Note a Code Change Proposal via 1305/IBC TAG related to ISCs has no structural changes proposed.						A	Y		Structural items.
IBC/MR 1305 Chapter 33 - Safeguards During Construction																	

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244-B33	IBC	33	3307.2; 3307.2.1; 3307.2.2; 3307.2.3			Protection of Adjoining Property, Excavation Retention Systems		New section in 2021. 3307.2 Excavation retention systems. Where a retention system is used to provide support of an excavation for protection of adjacent property or structures, the system shall conform to the requirements in Sections 3307.2.1 through 3307.2.3. <i>[BS] 3307.2.1 Excavation retention system design. Excavation retention systems shall be designed by a registered design professional to provide vertical and lateral support.</i> <i>[BS] 3307.2.2 Excavation retention system monitoring. The retention system design shall include requirements for monitoring of the system and adjacent property or structures for horizontal and vertical movement.</i> <i>[BS] 3307.2.3 Retention system removal. Elements of the system shall only be removed or decommissioned where adequate replacement support is provided by backfill or by the new structure. Removal or decommissioning shall be performed in such a manner that protects the adjacent property.</i>						A	Y		Structural items.
Other Code Change Proposals																	

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245-MP					MR 1303.1600 / CCP-STR-1.1	Footing Depth for Frost Protection		Administration and Minnesota Provisions TAG members and Structural TAG members jointly discuss a code change proposal to revise frost depth requirements. Greg Metz proposal.			CCP-STR-1.1		A	Y		7/9 joint meeting with Admin/1303 TAG. Presentation of code change proposal. Extensive discussion. Tabled. Admin/1303 chair Greg Metz asked Structural TAG to develop alternate proposal for consideration. Needs to be simple and provide depths for heated and non-heated buildings and isolated footings. 8/1 TAG members discussed other sources of data, including mean average temperature, to derive an appropriate minimum frost depth. The consensus of TAG members agreed that decreasing the minimum footing depths for heated and semi-heated buildings in some zones is reasonable, and that adding 12" to the depth for unheated structures will provide necessary additional protection. Discussion to refine details of the revision to the code change proposal will continue at future meetings. 9/19/24 TAG recommends approval with modifications to last sentence: "Shallower depths may be permitted when constructed on solid rock or in accordance with ASCE 32 when supporting evidence is presented by an engineer competent in soil mechanics."
246-MP					MR 1303.1600 Subp. 3 / CCP-STR-2	Frost Protection for Exterior Door Landings		Proposes required protection of exterior landings for exits and accessible routes. Greg Metz proposal.	H		CCP-STR-2	A	With-drawn			

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					MR 1303.1700	Ground Snow Load	Y	Current MR language: The ground snow load, Pg, to be used in determining the design snow loads for buildings and other structures shall be 60 pounds per square foot in the following counties: Aitkin, Becker, Beltrami, Carlton, Cass, Clearwater, Cook, Crow Wing, Hubbard, Itasca, Kanabec, Kittson, Koochiching, Lake, Lake of the Woods, Mahnomen, Marshall, Mille Lacs, Morrison, Norman, Otter Tail, Pennington, Pine, Polk, Red Lake, Roseau, St. Louis, Todd, and Wadena. The ground snow load, Pg, to be used in determining the design snow loads for buildings and other structures shall be 50 pounds per square foot in all other counties.									
247a-B10	IBC	10	1010.1.5.1		CCP-STR-3 CCP-STR-3a.2	Landings at Exterior Exit Doors		Scott Anderson proposal	H				A	Y			To be modified. Revision received 9/19.
247b-B18	IBC	18	1809.5.1		MR 1305.1809 / CCP-STR-3 CCP-STR-3a.2	Frost Protection (general) and Frost Protection at Required Exits		Scott Anderson proposal	L				Tabled				To be modified. Revision received 9/19.
248-B18	IBC	18	1809.5		MR 1305.1809 / CCP-STR-4	Shallow Foundation Frost Protection		Scott Anderson proposal									
See Residential CCPs in separate worksheet.																	