Structural 2024 ICC Model Code Changes TAG Review Worksheet #1

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: Code	2024 Code and Chapter: 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
									N - None, L - Low, M-Med, H-High							
IBC/MR 1305 Chapter 16 - Structural Design																
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.
IBC/MR 1305 Chapter 19 - Concrete																
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:* *1. Impermeable barrier.* *2. Epoxy coating in accordance with ACI 318.* *3. Hot dipped galvanizing in accordance with ACI 318.*								Tabled 6/6/24 MO to research ACI 318-19. Remains tabled 12/5.

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Other Code Change Proposals																
					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-3a**	Landings at Exterior Exit Doors		Scott Anderson proposal	H				A	Y		To be modified. Revision received 9/19 (after TAG).
247a.1-B10	IBC	10	1010.1.5.1		**CCP-STR-3a.2**	Landings at Exterior Exit Doors		Revised proposal from proponent. Review modifications.								
247b-B18	IBC	18	1809.5.1		**MR 1305.1809 / CCP-STR-3b**	Frost Protection (general) and Frost Protection at Required Exits		Scott Anderson proposal	L				Tabled			To be modified. Revision received 9/19 (after TAG).
247b.1-B18	IBC	18	1809.5.1		**MR 1305.1809 / CCP-STR-3b.2**	Frost Protection (general) and Frost Protection at Required Exits		Revised proposal from proponent. Review modifications.								
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.																

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1309/IRC Structural Review

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Chapter 3 Building Planning															
4R	IRC	3	Table R301.2	Table R301.2	**1309.0301/Table R301.2(1)**	Footnote "f"	Y	**Current MR Footnote "f":** f The ground snow loads to be used in determining the design snow loads for buildings and other structures are given in Minnesota Rules, part 1303.1700 - Ground Snow Load to verify by county. The roof snow load is a uniform load on the horizontal projection of the roof.				Tabled			12/5/24 tabled. MO working on overlay lines on counties.
18R	IRC	3	**Figure R301.2(3)**	Figure R301.2(3)	Figure R301.2(3)	Allowable Stress Design Ground Snow LoadsLoads for the United States	N	IRC 2024 renamed, and map and all notes revised. References the ASCE 7 Hazard Tool.				Tabled			Table 12/5.
24R	IRC	3	**R301.2.3**	R301.2.3	R301.2.3	Snow Loads	N	IRC 2024 adds: Ground snow loads shall be determined in accordance with Figure R301.2(3) or shall be determined in accordance in with Section 1608 of the International Building Code.				Tabled			Table (map discussion) 12/5.
28.1R	IRC	3	~	~	**CCP-STR-5-Res 1309.0318.1**	Landing, Deck, Balcony, and Stair Construction at Required Egress Door		Proposal adds new section: R318.5.1 Landing, deck, balcony and stair construction at required egress door. Exterior landings, decks, balconies, stairs and similar facilities shall be supported on footings protected from frost by one or more of the following methods: 1.Constructed in accordance with 1303.1600. 2.Erecting on solid rock. 3.Other approved methods of frost protection		Scott Anderson, proponent					
Chapter 4 Foundations															

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31R	IRC	4	Table R402.2	Table R402.2	**Table 1309.0402**	402 Materials; Minimum Specified Compressive Strength of Concrete	Y	**Current MR.** From the Statement of Need and Reasonablness 8/22/19 for the amendment: *The column heading (Minimum Specified Compressive Strength) and footnote "g" are modified to correct an error in the symbol for compressive strength.* *Footnote "h" is added to Table R402.2 of the IRC to specify that concrete able to withstand 5,000 pounds of force per square inch ("5000 psi") is not required for post footings of decks and porches, wood foundations, slab-on-grade foundation walls, and footings for floating slabs. During the adoption of the 2012 IRC, Table 402.2 was modified to require that footings for dwellings be constructed with 5000 psi concrete. The purpose of this requirement was to prevent moisture from passing through the porous concrete material of the footing and then into the concrete or masonry foundation walls that enclose the basement or the crawl space.* *The moisture protection provided by 5000 psi concrete is unnecessary for post footings of decks and porches, wood foundations, slab-on-grade foundation walls, and footings for floating slabs. The footings for decks and porches are not a part of the foundation of the dwelling and therefore 5000 psi concrete is unnecessary. Slab-on-grade and floating slab foundations are at the level of the soil and do not require footings. Moisture protection is necessary for foundations that are deeper in the ground to accommodate a basement or crawlspace. Wood foundations do not have concrete components and therefore do not require concrete footings. This change is reasonable to clarify the types of footings where 5000 psi concrete is not required, which will ensure uniform application and enforcement of the*	N	N			Tabled		Tabled 1/16. Members to review research.	
38R	IRC	4	403.1.4.1	403.1.4.1	**1309.0403.1.4.1**	403 Footings; Frost Protection	Y	**Current MR:** Adds reference to MR 1303 for frost protection. Disallows footings on frozen soil. See UA for details.					Tabled			Tabled 1/16.
38.1R	IRC	4	~	~	**CCP-STR-6-Res**	Footing Frost Protection		See Code Change Proposal.			Scott Anderson, proponent					
41R	IRC	4	**403.5**	~	~	403 Footings; Crushed Stone Footings for Cast-in-Place Concrete Foundations	N	IRC 2024 new section.					Tabled			Tabled 1/16/25. Related CCP to be reviewed at a future TAG.

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41.1R	IRC	4	~	~	**CCP-STR-8-Res Figures R403.5(1); 403.5(2); 403.5(3)**	Crushed Stone Footing Depth		Proposed code change proposal.			Chris Kehl with TAG proponents.					
42R	IRC	4	**Figure 403.5 (1)**	~	~	403 Footings; Crushed Stone Footings for Cast-in-Place Concrete Foundations in Seismic Categories A, B, and C and Wind Exposure Categories B, C, and D: Cast-in-Place Concrete Foundation Wall with Wood Cripple Wall	N	IRC 2024 new figure.					Tabled			Tabled 1/16/25. Related CCP to be reviewed at a future TAG.
43R	IRC	4	**Figure 403.5 (2)**	~	~	403 Footings; Crushed Stone Footings for Cast-in-Place Concrete Foundations in Seismic Categories A, B, and C and Wind Exposure Categories B, C, and D: Concrete Slab-on-Ground with Turned Down Foudation Casti-in-Place Concrete Foundation Wall with No Cripple Wall Above	N	IRC 2024 new figure.					Tabled			Tabled 1/16/25. Related CCP to be reviewed at a future TAG.
44R	IRC	4	**Figure R403.5 (3)**	~	~	403 Footings; Crushed Stone Footings for Cast-in-Place Concrete Foundations in Seismic Categories A, B, and C and Wind Exposure Categories B, C, and D: Concrete Slab-on-Ground with Turned Down Foundation	N	IRC 2024 new figure.					Tabled			Tabled 1/16/25. Related CCP to be reviewed at a future TAG.

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45R	IRC	4	Table R403.5	~	~	Minimum Cast-In-Place Concrete Foundation Wall	N	IRC 2024 new table.				Tabled			Tabled 1/16/25. Related CCP to be reviewed at a future TAG.
48R	IRC	4	R404.1.1	R404.1.1	**1309.0404.1.1**	Foundations, Foundations and Retaining Walls, Concrete and Masonry Foundation Walls, Design Required	Y	**Current MR:** Adds exception to design required: "Cantilevered concrete and masonry foundation walls supporting unbalanced backfill that do not have permanent lateral support at the top of the foundation shall be constructed according to Table R404.1.1(5), Table R404.1.1(6), or Table R404.1.1(7)."				Tabled			Tabled 2/6/25. Related CCP (50R) to be reviewed at a future TAG. Bring in line with accepted engineering practices and eliminate inconsistencies where possible.
50R	IRC	4	~	~	**Tables 1309.0404.1.1(5); 1309.0404.1.1(6); 1309.0404.1.1(7)**	Cantilevered Concrete and Masonry Foundation Walls	Y	**Current MR:** Tables added				Tabled			Tabled 2/6/25. CCP to be reviewed at a future TAG. Bring in line with accepted engineering practices and eliminate inconsistencies where possible.
Chapter 5 Floors															
72.1R	IRC	5	~	~	**CCP-STR-7-Res**	Footing Frost Protection		See Code Change Proposal.		Scott Anderson, proponent					
Chapter 6 Wall Construction															
103R			R602.7.5	**R602.7.5**	R602.7.5	Support for Headers		Changes to reference Table R602.3(1).							
104R			R602.9	**R602.9**	R602.9	Cripple Walls		Adds "exterior" to beginning of sentence three.							
105R			R602.10.1.2	**R602.10.1.2**	R602.10.1.2	Location of Braced Wall Lines and Permitted Offsets		Changes subsection title and adds at beginning: *Location of braced wall lines and permitted offsets. Each braced wall line shall be located such that no more than two-thirds of the required braced wall panel length is located to one side of the braced wall line. Braced wall panels shall be permitted to be offset up to 4 feet (1219 mm) from the designated braced wall line. Braced wall panels parallel to a braced wall line shall be offset not more than 4 feet (1219 mm) from the designated braced wall line location as shown in Figure R602.10.1.1.*							
106R			Table R602.10.1.3	**Table R602.10.1.3**	Table R602.10.1.3	Braced Wall Line Spacing		Removes 100 mph as low parameter, first row.							

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107R			**R602.10.2.2**	**R602.10.2.2**	R602.10.2.2	Locations of Braced Wall Panels		Revised first sentence *The nearest edge of a braced wall panel shall be located* Added two exceptions: *1. Braced wall panels in Seismic Design Categories D0, D1 and D2 shall comply with Section R602.10.2.2.1.* *2. Braced wall panels with continuous sheathing in Seismic Design Categories A, B and C shall comply with Section R602.10.7.*								
108R			Table R602.10.3(1)	**Table R602.10.3(1)**	Table R602.10.3(1)	Bracing Requirements Based on Wind Speed		Added <95mph to table								
109R			**Table R602.10.3(2)**	Table R602.10.3(2)	Table R602.10.3(2)	Wind Adjustment Factors to the Required Length of Wall Bracing		Changed "Story Height" to "Wall Height" Item 3.								
110R			**Table R602.10.3(4)**	Table R602.10.3(4)	Table R602.10.3(4)	Wind Adjustment Factors to the Required Length of Wall Bracing		Changed "Story Height" to "Wall Height" Item 1.								
111R			**R602.10.3.1; Table R602.10.3.1**	R602.10.3.1; Table R602.10.3.1	R602.10.3.1; Table R602.10.3.1	Wall Height for Wood Framing		New section and table. *Wall height for wood framing. For determination of braced wall and panel adjustment factors in accordance with Section R602.10, wall height shall be the vertical distance from the lower edge of the bottom plate to the upper edge of the upper top plate determined in accordance with Figure R602.10.3.1.*								
112R			**Table R602.10.5**	Table R602.10.5	Table R602.10.5	Minimum Length of Braced Wall Panel		Adds *"The actual length of Methods CS-G, CS-WSP, CS-SFB< PFH, PFG, and CS-PF is the length of the full-height sheathed section."*								
113R			**Figure R602.10.6.3; Figure R602.10.6.4**	Figure R602.10.6.3; Figure R602.10.6.4	Figure R602.10.6.3; Figure R602.10.6.4	Portal Frame at Garage Door Openings in Seismic Design Cat A, B and C		Note added: *Header shall not extend over more than one opening.*								
114R			R602.10.6.4	**R602.10.6.4**	R602.10.6.4	Method CS-PF Continuously Sheathed Portal Frame		Removes last sentence: ~~The number of continuously sheathed portal frame panels in a single braced wall line shall not exceed four.~~								
115R			R602.12.6.2	**R602.12.6.2**	R602.12.6.2	Narrow Panels, Method CS-PF		Deleted sentence: ~~Not more than four CS-PF panels shall be permitted on all segments of walls parallel to each side of the circumscribed rectangle.~~								

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116R			R603.1.1.1	**R603.1.1.1**	~	Cold Formed Steel Wall Framing, Alternate Applications		New sub section: *Cold-formed steel wall framing for buildings exceeding the applicability limits of Section R603.1.1 are permitted to be designed and constructed in accordance with AISI S230, subect to the limits therein.*							
117R			R603.1.2	**R603.1.2**	R603.1.2	C-FSIn-line framing		Eliminates exceptions, adds location to be *"in accordance with tolerances specified in AISI S240, Section B1.2.3."*							
118R			R603.2.2	**R603.2.2**	R603.2.2	C-FS, Corrosion Protection		New language replaces previous. *Now: Load-bearing cold-formed steel framing shall have a protective coating complying with AISI S240, Section A4.*							
119R			R603.2.3	**R603.2.3**	R603.2.3	Identification		Drops prescriptive and references AISI S240, Section A5.5.							
120R			R603.2.6	**R603.2.6**	R603.2.6; R603.2.6.1-R602.3.6.3	Web holes, web hole reinforcing and web hole patching		Language and subsections replaces with: *Web holes in wall studs shall comply with the conditions as prescribed in AISI S230, Section A4.5. Web holes not in conformance to the conditions as prescribed in AISI S230, Section A4.5 shall be reinforced in accordance with the provisions of AISI S230, Section A4.6 or patched in accordance with the provisions of AISI S230, Section A4.7.*							
121R			R608.1; R608.5.1	**R608.1; R608.5.1**	R608.1; R608.5.1	Exterior Concrete Wall Construction, General; Materials		Adds ACI 332 to compliance options.							
122R			R609.1	R609.1	R609.1	Exterior Windows and Doors, General		Adds garage doors to applicablity of section.							
Chapter 7 Wall Covering															
Chapter 8 Roof-Ceiling Construction															
123R			R802.3	**R802.3**	R802.3	Wood Roof Framing, Ridge		Adds a reference to ties per R802.5.2 and changes girder to column for support at ends.							

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124R			802.4.2	**802.4.2**	802.4.2	Framing Details		First sentence revised: *Rafters shall be framed opposite from each other to a ridge board, shall not be offset more than 11/2 inches (38 mm) from each other and shall be connected with a collar tie or ridge strap in accordance with Section R802.4.6 or directly opposite from each other to a gusset plate in accordance with Table R602.3(1).*							
125R			802.4.6	**802.4.6**	802.4.6	Collar Ties		Last sentence revised: *Ridge straps shall be not less than 11/4-inch (32 mm) × 20 gage and shall be nailed to the top edge of each rafter with not fewer than three 10d common (3" × 0.148") nails with the closest nail not closer than 23/8 inches (60.3 mm) from the end of the rafter.*							
126R			802.5	**802.5**	802.5	Ceiling Joists		Adds: *Ceiling joists shall be fastened to the top plate in accordance with Table R602.3(1).*							
127R			802.5.2	**802.5.2**	802.5.2	Ceiling Joist and Rafter Connections		Revised language: *Where ceiling joists run parallel to rafters and are located in the bottom third of the rafter height, they shall be installed in accordance with Figure R802.4.5 and fastened to rafters in accordance with Table R802.5.2(1). Where the ceiling joists are installed above the bottom third of the rafter height, the ridge shall be designed as a beam in accordance with Section R802.3. Where ceiling joists do not run parallel to rafters, rafters shall be tied across the structure with a rafter tie in accordance with Section R802.5.2.2, or the ridge shall be designed as a beam in accordance with Section R802.3.*							
128R			Table R802.5.2(1)	**Table R802.5.2(1)**	Table R802.5.2(1)	Rafter/Ceiling Joist Heel Joint Connections		Table revised, including some footnotes.							
129R			Table R802.5.2(2)	**Table R802.5.2(2)**	~	Heel Joint Connection Adjustment Factors		New table.							

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130R			R802.5.2.1	**R802.5.2.1**	R802.5.2.1	Ceiling Joists Lapped		Revised language: *Ends of ceiling joists shall be lapped not less than 3 inches (76 mm) or butted over bearing partitions or beams and toenailed to the bearing member. Where ceiling joists are used to provide the continuous tie across the building, lapped joists shall be nailed together in accordance with Table R802.5.2(1) and butted joists shall be tied together with a connection of equivalent capacity. Laps in joists that do not provide the continuous tie across the building shall be permitted to be nailed in accordance with Table R602.3(1).*								
131R			R802.5.2.2	**R802.5.2.2**	R802.5.2.2	Rafter Ties		Adds maximum 24" O.C.								
132R			R802.6	**R802.6**	R802.6	Bearing		New sentence at end: *Where the roof pitch is greater than or equal to 3 units vertical in 12 units horizontal (25-percent slope), and ceiling joists or rafter ties are connected to rafters to provide a continuous tension tie in accordance with Section R802.5.2, vertical bearing of the top of the rafter against the ridge board shall satisfy this bearing requirement.*								
133R			R802.11; R802.11.1-R802.11.2	**R802.11; R802.11.1-R802.11.2**	R802.11; R802.11.1; R802.11.1.1-R802.11.1.2	Roof Tie Uplift Resistance		Section reorganized, renumbered.								
134R			R804.1.1.1	R804.1.1.1	~	C-F S Roof Framing, Alternate Applications		New section. *Cold-formed steel roof and ceiling framing for buildings exceeding the applicability limits of Section R804.1.1 is permitted to be designed and constructed in accordance with AISI S230, subject to the limits therein.*								
135R			R804.1.2; R804.2.1; R804.2.2; R804.2.3; R804.2.4;	**R804.1.2; R804.2.1; R804.2.2; R804.2.3; R804.2.4;**	R804.1.2; R804.2.1; R804.2.2; R804.2.3; R804.2.4;	In-line Framing; Structural Framing, Material, Corrosion Protection, Dimension, Thickness and Material Grade, Identification		Revisions requiring compliance with AISI S240.								

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136R			R804.2.6	**R804.2.6**	R804.2.6	Web Holes, Web Hole Reinforcing and Web Hole Patching		Section revised to require compliance with AISI. *Web holes in roof or ceiling joists shall comply with the conditions as prescribed in AISI S230, Section A4.5. Web holes not in conformance to the conditions of AISI S230, Section A4.5 shall be reinforced in accordance with the provisions of AISI S230, Section A4.6 or patched in accordance with the provisions of AISI S230, Section A4.7.*								
137R			Table R804.3	**Table R804.3**	Table R804.3	Roof Framing Fastening Schedule		Table revised.								
138R			Table R804.3.2.1(2)	**Table R804.3.2.1(2)**	Table R804.3.2.1(2)	Ultimate Design Wind Speed to Equivalent Snow Load Conversion		Table revised.								
139R			R804.3.2.1.2	**R804.3.2.1.2**	R804.3.2.1.2	Rake Overhangs		Adds: *The required strength of uplift connectors required for Option 1 shall be determined in accordance with AISI S230, Table F3-4.*								
Chapter 9 Roof Assemblies																
140R	IRC	9	Chapter 9			Entirety of Chapter 9 - Roof Assemblies		Few structural-related changes present no cost increase, will not uniquely affect Minnesota.	N	L	Staff recommends acceptance of all Ch. 9 structural changes as written.	A				
Chapter 10 Chimneys & Fireplaces - No Structural Changes																