

## ORDINANCE 5818

### AN ORDINANCE ENACTING THE 2009 INTERNATIONAL BUILDING CODE BY REPEALING CHAPTER 15.12 OF THE RAPID CITY MUNICIPAL CODE IN ITS ENTIRETY AND ADOPTING A NEW CHAPTER 15.12 OF THE RAPID CITY MUNICIPAL CODE

**BE IT ORDAINED** by the City of Rapid City that Chapter 15.12 of the Rapid City Municipal Code is repealed in its entirety.

**BE IT FURTHER ORDAINED** by the City of Rapid City that a new Chapter 15.12 of the Rapid City Municipal Code, entitled International Building Code, be and is hereby adopted as follows:

#### 15.12.010 Adoption of 2009 International Building Code

There is adopted by the city that certain code, recommended by the International Code Council, known as the International Building Code, 2009 edition, specifically Chapters 1-27, 29-35, and Appendices B, C, I and J thereof. The code is adopted for all occupancies except one- and two-family dwellings. A copy of the same is on file in the office of the City Building Official.

#### SECTION 101 GENERAL

#### 15.12.020 IBC Chapter 1, Section 101.4.1, GAS – AMENDED

IBC Chapter 1, Section 101.4.1, **GAS**, is hereby amended to read as follows:

**101.4.1 Gas.** ~~The provisions of the *International Fuel Gas Code* shall apply to the installation of gas piping from the point of delivery, gas appliances and related accessories as covered in this code. These requirements apply to gas piping systems extending from the point of delivery to the inlet connections of appliances and the installation and operation of residential and commercial gas appliances and related accessories.~~ The provisions of the Rapid City Gas Code shall apply to the installation of gas piping from the point of delivery, gas appliances and related accessories as covered in this code. These requirements apply to gas piping systems extending from the point of delivery to the inlet connections of appliances and the installation and operation of residential and commercial gas appliances and related accessories.

#### 15.12.030 IBC Chapter 1, Section 101.4.2, MECHANICAL – AMENDED

IBC Chapter 1, Section 101.4.2, **MECHANICAL**, is hereby amended to read as follows:

**101.4.2 Mechanical.** ~~The provisions of the *International Mechanical Code* shall apply to the installation, alterations, repairs and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air-conditioning and refrigeration systems, incinerators and other energy-related systems.~~ The provisions of the current mechanical code adopted by the City of Rapid City shall apply to the installation, alterations, repairs and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air-conditioning and refrigeration systems, incinerators and other energy-related systems.

**15.12.040 IBC Chapter 1, Section 101.4.3, PLUMBING – AMENDED**

IBC Chapter 1, Section 101.4.3, **PLUMBING**, is hereby amended to read as follows:

**101.4.3 Plumbing.** ~~The provisions of the *International Plumbing Code* shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system. The provisions of the *International Private Sewage Disposal Code* shall apply to private sewage disposal systems.~~ The provisions of the current plumbing code adopted by the South Dakota State Plumbing Commission with revisions, shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system.

**15.12.050 IBC Chapter 1, Section 101.4.6, ENERGY – DELETED**

IBC Chapter 1, Section 101.4.6, **ENERGY** is hereby deleted in its entirety.

**101.4.3 Energy.** ~~The provisions of the *International Energy Conservation Code* shall apply to all matters governing the design and construction of buildings for energy efficiency.~~

**15.12.060 IBC Chapter 1, Section 101.4.7, ELECTRICAL – ADDED**

IBC Chapter 1, Section 101.4.7, **ELECTRICAL**, is hereby added to read as follows:

**101.4.1 Electrical.** The provisions of the current electrical code adopted by the City of Rapid City shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings, and appurtenances thereto.

**SECTION 103**

**~~DEPARTMENT OF BUILDING SAFETY~~ - BUILDING PERMIT REVIEW TEAM**

**15.12.070 IBC Chapter 1, Section 103.1, CREATION OF ENFORCEMENT AGENCY – AMENDED**

IBC Chapter 1, Section 103.1, **CREATION OF ENFORCEMENT AGENCY**, is hereby amended to read as follows:

**103.1 Creation of enforcement agency.** The ~~Department of Building Safety~~ [Building Services](#) is hereby created and the official in charge thereof shall be known as the building official.

## **SECTION 105 PERMITS**

### **15.12.080 IBC Chapter 1, Section 105.5, EXPIRATION - AMENDED**

IBC Chapter 1, Section 105.5, **EXPIRATION**, is hereby amended to read as follows:

**105.5 Expiration.** Every *permit* issued shall become invalid unless the work on the site authorized by such *permit* is commenced within 180 days after its issuance, or if the work authorized on the site by such *permit* is suspended or abandoned for a period of 180 days after the time the work is commenced. The *code official* is authorized to grant, in writing, one or more extensions of time, for periods not more than 180 days each. The extension shall be requested in writing and justifiable cause demonstrated. [The requirement that all work authorized by a building permit be commenced within 180 days does not operate to change timelines established in any notice and/or order issued by the building official or his designee.](#)

## **SECTION 106 FLOOR AND ROOF DESIGN LOADS**

### **15.12.090 IBC Chapter 1, Section 106.1, LIVE LOADS POSTED – AMENDED**

IBC Chapter 1, Section 106.1, **LIVE LOADS POSTED**, is hereby amended to read as follows:

**106.1 Live loads posted.** Where the live loads for which each floor or portion thereof of a commercial or industrial building is or has been designed to exceed ~~50 psf (2.40 kN/m<sup>2</sup>)~~ [100 psf](#), such design live loads shall be conspicuously posted by the owner in that part of each *story* in which they apply, using durable signs. It shall be unlawful to remove or deface such notices

## **SECTION 107 SUBMITTAL DOCUMENTS**

### **15.12.100 IBC Chapter 1, Section 107.3, EXAMINATION OF DOCUMENTS – AMENDED**

IBC Chapter 1, Section 107.3, **EXAMINATION OF DOCUMENTS**, is hereby amended to read as follows:

**107.3 Examination of documents.** The *code official* shall examine or cause to be examined the accompanying submittal documents and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this code and other pertinent laws or ordinances.

**107.3.1 Approval Review of construction documents.** When the code official issues a permit, the construction documents shall be ~~approved~~ reviewed, in writing or by stamp, as “Reviewed for Code Compliance.” One set of construction documents so reviewed shall be retained by the code official. The other set shall be returned to the applicant, shall be kept at the site of work and shall be open to inspection by the code official or a duly authorized representative.

**107.3.2 Previous approvals reviews.** This code shall not require changes in the construction documents, construction or designated occupancy of a structure for which a lawful permit has been heretofore issued or otherwise lawfully authorized, and the construction of which has been pursued in good faith within 180 days after the effective date of this code and has not been abandoned.

**107.3.3 Phased approval review.** The code official is authorized to issue a permit for the construction of foundations or any other part of a building or structure before the construction documents for the whole building or structure have been submitted, provided that adequate information and detailed statements have been filed complying with pertinent requirements of this code. The holder of such permit for the foundation or other parts of a building or structure shall proceed at the holder’s own risk with the building operation and without assurance that a permit for the entire structure will be granted.

#### **15.12.110 IBC Chapter 1, Section 107.3.4.2, DEFERRED SUBMITTALS – AMENDED**

IBC Chapter 1, Section 107.3.4.2, **DEFERRED SUBMITTALS**, is hereby amended to read as follows:

**107.3.4.2 Deferred submittals.** For the purposes of this section, deferred submittals are defined as those portions of the design that are not submitted at the time of the application and that are to be submitted to the *building official* within a specified period.

Deferral of any submittal items shall have the prior approval of the *building official*. The *registered design professional in responsible charge* shall list the deferred submittals on the *construction documents* for review by the *building official*.

Documents for deferred submittal items shall be submitted to the *registered design professional in responsible charge* who shall review them and forward them to the *building*

*official* with a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance to the design of the building. The deferred submittal items shall not be installed until the deferred submittal documents have been ~~approved~~ reviewed by the *building official*. For the purposes of this section, deferred submittals are defined as those portions of the design that are not submitted at the time of the application and that are to be submitted to the building official within a specified period.

#### **15.12.120 IBC Chapter 1, Section 107.4, AMENDED CONSTRUCTION DOCUMENTS – AMENDED**

IBC Chapter 1, Section 107.4, **AMENDED CONSTRUCTION DOCUMENTS**, is hereby amended to read as follows:

**107.4 Amended construction documents.** Work shall be installed in accordance with the ~~approved~~ reviewed construction documents, and any changes made during construction that are not in compliance with the ~~approved~~ reviewed construction documents shall be resubmitted for ~~approval~~ review as an amended set of construction documents.

#### **15.12.130 IBC Chapter 1, Section 107.5, RETENTION OF CONSTRUCTION DOCUMENTS - AMENDED**

IBC Chapter 1, Section 107.5, **RETENTION OF CONSTRUCTION DOCUMENTS**, is hereby amended to read as follows:

**107.5 Retention of construction documents.** One set of ~~approved~~ reviewed construction documents shall be retained by the building official for a period of not less than 180 days from date of completion of the permitted work, or as required by state or local laws.

### **SECTION 108 TEMPORARY STRUCTURES AND USES**

#### **15.12.140 IBC Chapter 1, Section 108.3, TEMPORARY POWER – AMENDED**

IBC Chapter 1, Section 108.3, **TEMPORARY POWER**, is hereby amended to read as follows:

**108.3 Temporary power.** The building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in ~~NFPA-7~~ the current electrical code adopted by the City of Rapid City.

### **SECTION 109 FEES**

### **15.12.150 IBC Chapter 1, Section 109.1, PAYMENT OF FEES - AMENDED**

IBC Chapter 1, Section 109.1, **PAYMENT OF FEES**, is hereby amended to read as follows:

**109.1 Payment of fees.** A permit shall not be valid until the fees prescribed by law have been paid, nor shall an amendment to a permit be released until the additional fee, if any, has been paid. ([Table 100-C](#))

### **15.12.160 IBC Chapter 1, Section 109.2, SCHEDULE OF PERMIT FEES – AMENDED**

IBC Chapter 1, Section 109.2, **SCHEDULE OF PERMIT FEES**, is hereby amended to read as follows:

**109.2 Schedule of permit fees.** On buildings, structures, electrical, gas, mechanical, and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid as required, in accordance with the schedule as established by the applicable governing authority. ([Table 100-C](#))

### **15.12.170 IBC Chapter 1, Section 109.3, BUILDING PERMIT VALUATIONS – AMENDED**

IBC Chapter 1, Section 109.3, **BUILDING PERMIT VALUATIONS**, is hereby amended to read as follows:

**109.3 Building permit valuations.** ~~The applicant for a permit shall provide an estimated permit value at time of application.~~ [The estimated permit value shall be determined by the building official.](#) Permit valuations shall include total value of work, including materials and labor, for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment and permanent systems. If, in the opinion of the building official, the valuation is underestimated on the application, the permit shall be denied, unless the applicant can show detailed estimates to meet the approval of the building official. Final building permit valuation shall be set by the code official.

### **15.12.180 IBC Chapter 1, Section 109.6, REFUNDS – AMENDED**

IBC Chapter 1, Section 109.6, **REFUNDS**, is hereby amended to read as follows:

**108.6 Refunds.** The building official is authorized to establish a refund policy, [which is on file in the office of the building official.](#)

### **15.12.190 IBC Chapter 1, Section 109.7, PLAN REVIEW FEES – ADDED**

IBC Chapter 1, Section 109.7, **PLAN REVIEW FEES**, is hereby added to read as follows:

**109.7 Plan review fees.** When submittal documents are required, a plan review fee shall be paid at the time of submitting the submittal documents for plan review. Said plan review fee shall be paid as required, in accordance with Table 100-C. The plan review fees specified in this subsection are separate fees from the permit fees specified in Table 100-C and are in addition to the permit fees.

## **SECTION 202 DEFINITIONS**

### **15.12.200 IBC Chapter 2, Section 202, DEFINITIONS – AMENDED**

IBC Chapter 2, Section 202, **DEFINITIONS**, is hereby amended to read as follows:

All definitions will remain the same except for those specifically changed as follows:

**TOWNHOUSE.** A single-family dwelling unit constructed in a group of ~~three~~ two or more attached units in which each unit extends from foundation to roof and with open space on at least two sides.

## **SECTION 312 UTILITY AND MISCELLANEOUS GROUP U**

### **15.12.210 IBC Chapter 3, Section 312, UTILITY AND MISCELLANEOUS GROUP U – AMENDED**

IBC Chapter 3, Section 312, **UTILITY AND MISCELLANEOUS GROUP U**, is hereby amended to read as follows:

**312.1 General.** Buildings and structures of an accessory character and miscellaneous structures not classified in any specific occupancy shall be constructed, equipped and maintained to conform to the requirements of this code commensurate with the fire and life hazard incidental to their occupancy. Group U shall include, but not be limited to, the following:

- Agricultural buildings
- Aircraft hangars, accessory to a one- or two-family residence (see Section 412.5)
- Barns
- Carports
- Fences more than 6 feet (1829 mm) high
- Grain silos, accessory to a residential occupancy
- Greenhouses
- Livestock shelters
- Private garages
- Retaining walls

Sheds  
Stables  
Tanks  
Towers  
[Camping Cabins](#)

**312.2 Camping Cabins.** [Camping cabins must have an egress window or door in each sleeping area, a smoke detector in each sleeping area, interior and exterior light, interior and exterior plug-ins, the unit number on each cabin, rodent protection, a fire extinguisher in each unit, and accessible units shall be provided as per Table 1107.6.1.1.](#)

## SECTION 402 COVERED MALL AND OPEN MALL BUILDINGS

### 15.12.220 IBC Chapter 4, Section 402.16, PLASTIC SIGNS – DELETED

IBC Chapter 4, Section 402.16, **PLASTIC SIGNS**, is hereby deleted in its entirety.

~~**402.16 Plastic signs.** Plastic signs affixed to the storefront of any tenant space facing the mall shall be limited as specified in Sections 402.16.1 through 402.16.5.2.~~

~~**402.16.1 Area.** Plastic signs shall not exceed 20 percent of the wall area facing the mall.~~

~~**402.16.2 Height and width.** Plastic signs shall not exceed a height of 36 inches (914 mm), except that if the sign is vertical, the height shall not exceed 96 inches (2438 mm) and the width shall not exceed 36 inches (914 mm).~~

~~**402.16.3 Location.** Plastic signs shall be located a minimum distance of 18 inches (457 mm) from adjacent tenants.~~

~~**402.16.4 Plastics other than foam plastics.** Plastics other than foam plastics used in signs shall be light-transmitting plastics complying with Section 2606.4 or shall have a self-ignition temperature of 650°F (343°C) or greater when tested in accordance with ASTM D 1929, and a flame-spread index not greater than 75 and smoke-developed index not greater than 450 when tested in the manner intended for use in accordance with ASTM E 84 or UL 723 or meet the acceptance criteria of Section 803.1.2.1 when tested in accordance with NFPA 286.~~

~~**402.16.4.1 Encasement.** Edges and backs of plastic signs in the mall shall be fully encased in metal.~~

~~**402.16.5 Foam plastics.** Foam plastics used in signs shall have flame-retardant characteristics such that the sign has a maximum heat-release rate of 150 kilowatts when tested in accordance with UL 1975 and the foam plastics shall have the physical characteristics specified in this section. Foam plastics used in signs installed in accordance~~



~~with Section 402.16 shall not be required to comply with the flame spread and smoke-developed indexes specified in Section 2603.3.~~

~~**402.16.5.1 Density.** The minimum density of foam plastics used in signs shall not be less than 20 pounds per cubic foot (pcf) (320 kg/m<sup>3</sup>).~~

~~**402.16.5.2 Thickness.** The thickness of foam plastic signs shall not be greater than 1/2 inch (12.7 mm).~~

## SECTION 403 HIGH-RISE BUILDINGS

### 15.12.230 IBC Chapter 4, Section 403.1, APPLICABILITY - AMENDED

IBC Chapter 4, Section 403.1, **APPLICABILITY**, is hereby amended to read as follows:

**403.1 Applicability.** High-rise buildings shall comply with Sections 403.2 through 403.6. The provisions of this section shall apply to buildings having occupied floors located more than 75 feet above the lowest level of fire department vehicle access.

**Exception:** The provisions of Section 403.2 through 403.6 shall not apply to the following buildings and structures:

1. Airport traffic control towers in accordance with Section 412.3.
2. Open parking garages in accordance with Section 406.3.
3. Buildings with a Group A-5 occupancy in accordance with Section 303.1.
4. Low-hazard special industrial occupancies in accordance with Section 503.1.1.
5. Buildings with a Group H-1, H-2 or H-3 occupancy in accordance with Section 415.

## SECTION 404 ATRIUMS

### 15.12.240 IBC Chapter 4, Section [F] 404.3, AUTOMATIC SPRINKLER PROTECTION – AMENDED

IBC Chapter 4, Section 404.3, **AUTOMATIC SPRINKLER PROTECTION**, is hereby amended to read as follows:

**404.3 Automatic sprinkler protection.** An approved automatic sprinkler system shall be installed through out the entire building.

**Exceptions:**

1. That area of a building adjacent to or above the atrium need not be sprinklered provided that portion of the building is separated from the atrium portion by not less than 2-hour *fire barriers* constructed in accordance with Section 707 or *horizontal assemblies* constructed in accordance with Section 712, or both.
- ~~2. Where the ceiling of the atrium is more than 55 feet (16 764 mm) above the floor, sprinkler protection at the ceiling of the atrium is not required.~~

## SECTION 412 AIRCRAFT-RELATED OCCUPANCIES

### 15.12.250 IBC Chapter 4, Section 412.4.1, EXTERIOR WALLS – DELETED

IBC Chapter 4, Section 412.4.1, **EXTERIOR WALLS**, is hereby deleted in its entirety.

~~**412.4.1 Exterior walls.** *Exterior walls located less than 30 feet (9144 mm) from lot lines or a public way shall have a fire-resistance rating not less than 2 hours.*~~

## SECTION 504 BUILDING HEIGHT

### 15.12.260 IBC Chapter 5, Section 504.2, AUTOMATIC SPRINKLER SYSTEM INCREASE – AMENDED

IBC Chapter 5, Section 504.2, **AUTOMATIC SPRINKLER SYSTEM INCREASE**, is hereby amended to read as follows:

**504.2 Automatic sprinkler system increase.** Where a building is equipped throughout with an *approved automatic sprinkler system* in accordance with Section 903.3.1.1, the value specified in Table 503 for maximum *building height* is increased by 20 feet (6096 mm) and the maximum number of *stories* is increased by one. These increases are permitted in addition to the *building area* increase in accordance with Sections 506.2 and 506.3. For Group R buildings equipped throughout with an *approved automatic sprinkler system* in accordance with Section 903.3.1.2, the value specified in Table 503 for maximum *building height* is increased by 20 feet (6096 mm) and the maximum number of *stories* is increased by one, but shall not exceed 60 feet (18 288 mm) or four *stories*, respectively.

#### **Exceptions:**

1. ~~Buildings, or portions of buildings,~~ [Fire areas](#) classified as a Group I-2 occupancy of Type IIB, III, IV or V construction.
2. ~~Buildings, or portions of buildings,~~ [Fire areas](#) classified as a Group H-1, H-2, H-3 or H-5 occupancy.
3. *Fire-resistance rating* substitution in accordance with Table 601, Note d.

**SECTION 903  
AUTOMATIC SPRINKLER SYSTEMS**

**15.12.270 IBC Chapter 9, Section [F]903.2, WHERE REQUIRED – AMENDED**

IBC Chapter 9, Section [F]903.2, **WHERE REQUIRED**, is hereby amended to read as follows:

**[F] 903.2 Where required.** Approved *automatic sprinkler systems* in new buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.2.12.

~~**Exception:** Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour *fire barriers* constructed in accordance with Section 707 or not less than 2-hour *horizontal assemblies* constructed in accordance with Section 712, or both.~~

**SECTION 1004  
OCCUPANT LOAD**

**15.12.280 IBC Chapter 10, Table 1004.1.1, MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT - AMENDED**

IBC Chapter 10, Table 1004.1.1, **MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT**, is hereby amended to read as follows:

**TABLE 1004.1.1  
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT**

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangers	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	

Gaming floors ( <a href="#">video lottery</a> , keno, slots, etc.)	<del>41 gross</del> 15 net
Assembly with fixed seats	See Section 1004.7
Assembly without fixed seats	
Concentrated (chairs only – not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	100 gross
Courtrooms – other than fixed seating areas	40 net
Daycare	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
H-5 Fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mercantile	
Areas on other floors	60 gross
Basement and grade floor areas	30 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Warehouses	500 gross
<a href="#">Jails</a>	<a href="#">1.05 per bed</a>
<a href="#">All others</a>	<a href="#">100 gross</a>

**SECTION 1014  
EXIT ACCESS**

**15.12.290 IBC Chapter 10, Section 1014.3, COMMON PATH OF EGRESS TRAVEL – AMENDED**

IPMC Chapter 10, Section 1014.3, **COMMON PATH OF EGRESS TRAVEL**, is hereby amended to read as follows:

**1014.3 Common path of egress travel.** In occupancies other than Groups H-1, H-2 and H-3, the *common path of egress travel* shall not exceed 75 feet (22 860 mm). In Group H-1, H-2 and H-3 occupancies, the *common path of egress travel* shall not exceed 25 feet (7620 mm). For *common path of egress travel* in Group A occupancies and assembly occupancies accessory to Group E occupancies having fixed seating, see Section 1028.8.

**Exceptions:**

1. The length of a *common path of egress travel* in Group B, F, M and S occupancies shall not be more than 100 feet (30 480 mm), provided that the building is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1.
2. Where a tenant space in Group B, M, S and U occupancies has an *occupant load* of not more than 30, the length of a *common path of egress travel* shall not be more than 100 feet (30 480 mm).
3. The length of a *common path of egress travel* in a Group I-3 occupancy shall not be more than 100 feet (30 480 mm).
4. The length of a common path of egress travel in a Group R-2 occupancy shall not be more than 125 feet (38 100 mm), provided that the building is protected throughout with an *approved automatic sprinkler system* in accordance with Section 903.3.1.1 or 903.3.1.2.

**SECTION 1101  
GENERAL**

**15.12.300 IBC Chapter 11, Section 1101.2, DESIGN – AMENDED**

IBC Chapter 11, Section 1101.2, **DESIGN**, is hereby amended to read as follows:

**1101.2 Design.** Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1. [The scoping provision of ANSI shall be per section 1103.](#)

**SECTION 1104  
ACCESSIBLE ROUTE**

## 15.12.310 IBC Chapter 11, Section 1104.4, MULTILEVEL BUILDINGS AND FACILITIES – AMENDED

IBC Chapter 11, Section 1101.2, **DESIGN**, is hereby amended to read as follows:

**1104.4 Multilevel buildings and facilities.** At least one *accessible route* shall connect each *accessible* level, including *mezzanines*, in multilevel buildings and facilities.

### Exceptions:

1. An *accessible route* from an accessible level is not required in facilities that are less than three stories in height or have less than 3,000 square feet (278.7 m<sup>2</sup>) per story. ~~is not required to stories and mezzanines that have an aggregate area of not more than 3,000 square feet (278.7 m<sup>2</sup>) and are located above and below accessible levels.~~ This exception shall not apply to:

- 1.1. Multiple tenant facilities of Group M occupancies containing five or more tenant spaces;
  - 1.2. Levels containing offices of health care providers (Group B or I); or
  - 1.3. Passenger transportation facilities and airports (Group A-3 or B).
2. Levels that do not contain *accessible* elements or other spaces as determined by Section 1107 or 1108 are not required to be served by an *accessible route* from an *accessible* level.
3. In air traffic control towers, an *accessible route* is not required to serve the cab and the floor immediately below the cab.
4. Where a two-story building or facility has one *story* with an *occupant load* of five or fewer persons that does not contain *public use* space, that *story* shall not be required to be connected by an *accessible route* to the *story* above or below.
5. Vertical access to elevated employee work stations within a courtroom is not required at the time of initial construction, provided a *ramp*, lift or elevator complying with ICC A117.1 can be installed without requiring reconfiguration or extension of the courtroom or extension of the electrical system.

## SECTION 1404 MATERIALS

## 15.12.320 IBC Chapter 14, Section 1404.2.1, WEATHER RESISTIVE SHEATHING PAPERS – ADDED

IBC Chapter 14, Section 1404.2.1, **WEATHER RESISTIVE SHEATHING PAPERS**, is hereby added to read as follows:

**1404.2.1 Weather resistive sheathing papers.** House wraps or weather resistive sheathing papers consisting of spun bonded olefin sheets of high density polyethylene fibers are required to be installed as per the manufacturer's instruction/recommendations.

## SECTION 1405 INSTALLATION OF WALL COVERINGS

### 15.12.330 IBC Chapter 14, Section 1405.11.4, GROUNDING – AMENDED

IBC Chapter 14, Section 1405.11.4, **GROUNDING**, is hereby amended to read as follows:

**1405.11.4 Grounding.** Grounding of metal veneers on buildings shall comply with ~~the requirements of Chapter 27 of this code~~ the current electrical code adopted by the City of Rapid City.

## SECTION 1503 WEATHER PROTECTION

### 15.12.340 IBC Chapter 15, Section 1503.4, ROOF DRAINAGE – AMENDED

IBC Chapter 15, Section 1503.4, **ROOF DRAINAGE**, is hereby amended to read as follows:

[P] **1503.4 Roof drainage.** Design and installation of roof drainage systems shall comply with ~~Section 1503 and the International Plumbing Code.~~ the current plumbing code adopted by the South Dakota State Plumbing Commission with revisions.

~~**1503.4.1 Secondary drainage required.** Secondary (emergency) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason.~~

~~**1503.4.2 Scuppers.** When scuppers are used for secondary (emergency overflow) roof drainage, the quantity, size, location and inlet elevation of the scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 503.4.1. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when locating and sizing scuppers.~~

~~**1503.4.3 Gutters.** Gutters and leaders placed on the outside of buildings, other than Group R-3, private garages and buildings of Type V construction, shall be of noncombustible material or a minimum of Schedule 40 plastic pipe~~

**SECTION 1507  
REQUIREMENTS FOR ROOF COVERINGS**

**15.12.350 IBC Chapter 15, Section 1507.5.4, ICE BARRIER – AMENDED**

IBC Chapter 15, Section 1507.5.4, **ICE BARRIER**, is hereby amended to read as follows:

**1507.5.4 Ice barrier.** In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

**Exception:** Detached accessory structures that contain no conditioned floor area.

[If the ice dam is not inspected, the contractor shall provide an affidavit that the ice dam was installed properly.](#)

**15.12.360 IBC Chapter 15, Section 1507.6.4, ICE BARRIER – AMENDED**

IBC Chapter 15, Section 1507.6.4, **ICE BARRIER**, is hereby amended to read as follows:

**1507.6.4 Ice barrier.** In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

**Exception:** Detached accessory structures that contain no conditioned floor area.

[If the ice dam is not inspected, the contractor shall provide an affidavit that the ice dam was installed properly.](#)

**15.12.370 IBC Chapter 15, Section 1507.7.4, ICE BARRIER – AMENDED**

IBC Chapter 15, Section 1507.7.4, **ICE BARRIER**, is hereby amended to read as follows:

**1507.7.4 Ice barrier.** In areas where the average daily temperature in January is 25\_F (-4\_C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer- modified bitumen sheet shall extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building

**Exception:** Detached accessory structures that contain no conditioned floor area.



[If the ice dam is not inspected, the contractor shall provide an affidavit that the ice dam was installed properly.](#)

**15.12.380 IBC Chapter 15, Section 1507.8.4, ICE BARRIER – AMENDED**

IBC Chapter 15, Section 1507.8.4, **ICE BARRIER**, is hereby amended to read as follows:

**1507.8.4 Ice barrier.** In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

**Exception:** Detached accessory structures that contain no conditioned floor area.

[If the ice dam is not inspected, the contractor shall provide an affidavit that the ice dam was installed properly.](#)

**15.12.390 IBC Chapter 15, Section 1507.9.4, ICE BARRIER – AMENDED**

IBC Chapter 15, Section 1507.9.4, **ICE BARRIER**, is hereby amended to read as follows:

**1507.9.4 Ice barrier.** In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

**Exception:** Detached accessory structures that contain no conditioned floor area.

[If the ice dam is not inspected, the contractor shall provide an affidavit that the ice dam was installed properly.](#)

**SECTION 1603  
CONSTRUCTION DOCUMENTS**

**15.12.400 IBC Chapter 16, Section 1603, CONSTRUCTION DOCUMENTS – AMENDED**

IBC Chapter 16, Section 1603, **CONSTRUCTION DOCUMENTS**, is hereby amended to read as follows:

**1603.1 General.** *Construction documents* shall show the size, section and relative locations of structural members with floor levels, column centers and offsets dimensioned. The design loads and other information pertinent to the structural design required by Sections 1603.1.1 through 1603.1.9 shall be indicated on the *construction documents*.

**Exception:** *Construction documents* for buildings constructed in accordance with the *conventional light-frame construction* provisions of Section 2308 shall indicate the following structural design information:

1. Floor and roof live loads.
2. Ground snow load, *P<sub>g</sub>*.
3. Basic wind speed (3-second gust), miles per hour (mph) (km/hr) and wind exposure.
4. *Seismic design category* and *site class*.
5. Flood design data, if located in *flood hazard areas* established in Section 1612.3.
6. Design load-bearing values of soils.

[Engineer design data shall be provided for roof areas where drifting occurs. The design data shall be shown on the plans.](#)

## **SECTION 1604 GENERAL DESIGN REQUIREMENTS**

### **15.12.410 IBC Chapter 16, Section 1604.1, GENERAL – AMENDED**

IBC Chapter 16, Section 1604.1, **GENERAL**, is hereby amended to read as follows:

**1604.1 General** Building, structures, and parts thereof shall be designed and constructed in accordance with strength design, load and resistance factor design, allowable stress design, empirical design, or conventional construction methods, as permitted by applicable material chapters [and Table 100-B, Climatic and Geographic Design Criteria.](#)

## **SECTION 1608 SNOW LOADS**

### **15.12.420 IBC Chapter 16, Section 1608, SNOW LOADS – AMENDED**

IBC Chapter 16, Section 1608, **SNOW LOADS**, is hereby amended to read as follows:

**1608.1 General.** Design snow loads shall be determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less than that determined by Section 1607.

**1608.2 Ground snowloads.** The ground snowloads to be used in determining the design snow loads for roofs shall be determined in accordance with ASCE 7 or Figure 1608.2 for the contiguous United States and Table 1608.2 for Alaska. Site-specific case studies shall be made in areas designated “CS” in Figure 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2 and for all sites within the CS areas shall be *approved*. Ground snow load determination for such sites shall be based on an extreme value statistical analysis of data available in the vicinity of the site using a value with a 2-percent

annual probability of being exceeded (50-year mean recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as *approved* by the *building official*.

[See Climactic Table 100-B and Section 1603.1 for additional design requirements.](#)

## SECTION 1612 FLOOD LOADS

### 15.12.430 IBC Chapter 16, Section 1612, FLOOD LOADS – AMENDED (See Attached for Deleted Sections)

IBC Chapter 16, Section 1612, **FLOOD LOADS**, is hereby amended to read as follows:

**1612 ALL** - [See Chapter 15.32, Flood Area Construction Regulations, of the Rapid City Municipal Code.](#)

## SECTION 1702 DEFINITIONS

### 15.12.440 IBC Chapter 17, Section 1702, DEFINITIONS – AMENDED

IBC Chapter 17, Section 1702, **DEFINITIONS**, is hereby amended to read as follows:

**1702.1 General.** The following words and terms shall, for the purposes of this chapter and as used else where in this code, have the meanings shown herein.

**APPROVED AGENCY.** An established and recognized agency [or design professional](#) regularly engaged in conducting tests or furnishing inspection services, when such agency has been approved.

**APPROVED FABRICATOR.** An established and qualified person, firm or corporation approved by the building official pursuant to Chapter 17 of this code.

**CERTIFICATE OF COMPLIANCE.** A certificate stating that materials and products meet specified standards or that work was done in compliance with ~~approved~~ [reviewed](#) construction documents.

**DESIGNATED SEISMIC SYSTEM.** Those architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7 and for which the component importance factor,  $I_p$ , is greater than 1 in accordance with Section 13.1.3 of ASCE 7.

**FABRICATED ITEM.** Structural, load-bearing or lateral load-resisting assemblies consisting of materials assembled prior to installation in a building or structure, or subjected to operations such as heat treatment, thermal cutting, cold working or reforming after

manufacture and prior to installation in a building or structure. Materials produced in accordance with standard specifications referenced by this code, such as rolled structural steel shapes, steel-reinforcing bars, masonry units, and wood structural panels or in accordance with a standard, listed in Chapter 35, which provides requirements for quality control done under the supervision of a third-party quality control agency shall not be considered “fabricated items.”

**INSPECTION CERTIFICATE.** An identification applied on a product by an approved agency containing the name of the manufacturer, the function and performance characteristics, and the name and identification of an approved agency that indicates that the product or material has been inspected and evaluated by an approved agency (see Section 1703.5 and “Label,” “Manufacturer’s designation” and “Mark”).

**INTUMESCENT FIRE-RESISTANT COATINGS.** Thin film liquid mixture applied to substrates by brush, roller, spray or trowel which expands into a protective foamed layer to provide fire-resistant protection of the substrates when exposed to flame or intense heat.

**LABEL.** [An identification applied on a product by the manufacturer that contains the name of the manufacturer, the function and performance characteristics of the product or material, and the name and identification of an approved agency and that indicates that the representative sample of the product or material has been tested and evaluated by an approved agency \(see Section 1703.5 and “Inspection certificate,” “Manufacturer’s designation” and “Mark”\).](#)

**MAIN WIND-FORCE-RESISTING SYSTEM.** An assemblage of structural elements assigned to provide support and stability for the overall structure. The system generally receives wind loading from more than one surface.

**MANUFACTURER’S DESIGNATION.** [An identification applied on a product by the manufacturer indicating that a product or material complies with a specified standard or set of rules \(see also “Inspection certificate,” “Label” and “Mark”\).](#)

**MARK.** [An identification applied on a product by the manufacturer indicating the name of the manufacturer and the function of a product or material \(see also “Inspection certificate,” “Label” and “Manufacturer’s designation”\).](#)

**MASTIC FIRE-RESISTANT COATINGS.** Liquid mixture applied to a substrate by brush, roller, spray or trowel that provides fire-resistant protection of a substrate when exposed to flame or intense heat.

**SPECIAL INSPECTION.** Inspection as herein required of the materials, installation, fabrication, erection or placement of components and connections requiring special expertise to ensure compliance with **approved reviewed** construction documents and referenced standards (see Section 1704).

**SPECIAL INSPECTION, CONTINUOUS.** The full-time observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.

**SPECIAL INSPECTION, PERIODIC.** The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

**SPRAYED FIRE-RESISTANT MATERIALS.** Cementitious or fibrous materials that are sprayed to provide fire-resistant protection of the substrates.

**STRUCTURAL OBSERVATION.** The visual observation of the structural system by a registered design professional for general conformance to the ~~approved~~reviewed construction documents. at significant construction stages and at completion of the structural system. Structural observation does not include or waive the responsibility for the inspection required by Section 110, 1704 or other sections of this code.

## **SECTION 1704 SPECIAL INSPECTIONS**

### **15.12.450 IBC Chapter 17, Section 1704.1, GENERAL – AMENDED**

IBC Chapter 17, Section 1704.1, **GENERAL**, is hereby amended to read as follows:

**1704.1 General.** Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more ~~approved agencies to perform~~ special inspectors to provide inspections during construction on the types of work listed under Section 1704. These inspections are in addition to the inspections specified in Section 110.

The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the *code official*, for the inspection of the particular type of construction or operation requiring *special inspection*. The *registered design professional in responsible charge* and engineers of record involved in the design of the project are permitted to act as the *approved agency* and their personnel are permitted to act as the special inspector for the work designed by them, provided those personnel meet the qualification requirements of this section to the satisfaction of the *code official*. The special inspector shall provide written documentation to the building official demonstrating his or her competence and relevant experience or training. Experience or training shall be considered relevant when the documented experience or training is related in complexity to the same type of *special inspection* activities for projects of similar complexity and material qualities. These qualifications are in addition to qualifications specified in other sections of this code.

#### **Exceptions:**

1. Special inspections are not required for work of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official and by the recommendation of the design professional.
2. Special inspections are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. Unless otherwise required by the building official, special inspections are not required for occupancies in Group R-3 as applicable in Section 101.2 and occupancies in Group U that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.

## **SECTION 1717 PREFABRICATION**

### **15.12.460 IBC Chapter 17, Section 1717, PREFABRICATION – ADDED**

IBC Chapter 17, Section 1717, **PREFABRICATION**, is hereby added to read as follows:

#### **1717.1 General.**

**1717.1.1 Purpose.** The purpose of this section is to regulate materials and establish methods of safe construction where any structure or portion thereof is wholly or partially prefabricated.

**1717.1.2 Scope.** Unless otherwise specifically stated in this section, all prefabricated construction and materials used therein shall conform to all the requirements of this code.

#### **1717.1.3 Definitions.**

**PREFABRICATED ASSEMBLY.** A structural unit, the integral parts of which have been built or assembled prior to incorporation in the building.

**PREFABRICATED STRUCTURES.** The parts of which are fabricated and assembled in a central assembly point where on-site building, electrical, plumbing, and mechanical rough-in inspections occur at the assembly location.

**1717.2 Tests of materials.** Every approval of a material not specifically mentioned in this code shall incorporate as a proviso the kind and number of nationally recognized testes to be made during prefabrication.

**1717.3 Tests of assemblies.** The building official may require special tests to be made on assemblies to determine their durability and weather resistance.

**1717.4 Connections.** Every device used to connect prefabricated assemblies shall be designed as required by this code and shall be capable of developing the strength of the members connected, except in the case of members forming part of a structural frame as specified in Chapter 16. Connections shall be capable of withstanding uplift forces as specified in this code and in Chapter 16.

**1717.5 Pipes and conduits.** In structural design, due allowances shall be made for any material to be removed for the installations of pipes, conduit, and other equipment.

**1717.6 Permits, materials, plans, fees, certificate, and inspections.**

**1717.6.1 Materials.** Materials and the assembly thereof shall be inspected to determine compliance with this code. Every material shall be graded, marked, or labeled as required elsewhere in this code.

**1717.6.2 Plans.** One complete set of plans and specifications shall be submitted to the building inspection division of planning and building services for approval prior to issuing a building permit for a prefabricated structure. Plans shall be of sufficient detail and clarity to indicate compliance with all applicable codes (electrical, plumbing, building, mechanical, and zoning).

**1717.6.3 Permits and fees.** Permit fees shall be as follows:

1. The fee for a building permit shall conform to Table 100-C.
2. Electrical, plumbing, and mechanical permits and fees shall conform to the respective permit requirements and fee schedules.

**1717.6.4 Certificate.** A certificate of approval shall be furnished with every prefabricated assembly and prefabricated structure, except where the assembly is readily accessible to inspection at the site. The certificate of approval shall certify that the assembly in question has been inspected and meets all the requirements of this code. When mechanical equipment is installed so that it cannot be inspected at the site, the certificate of approval shall certify that such equipment complies with the laws applying thereto.

**1717.6.5 Certifying agency.** To be acceptable under this code, every certificate of approval shall be made by the approved agency.

**1717.6.6 Field erection.** The building official shall inspect placement of prefabricated assemblies at the building site to determine compliance with this code. Installation and finishing work at the building site must be performed by locally licensed contractors where required. Final inspections are to be made after the installation and finishing work has been completed and the building is ready for occupancy.

**1717.6.7 Continuous inspection.** If continuous inspection is required for certain materials where construction takes place on the site, it shall also be required where the same materials are used in prefabricated construction.

**Exception:** continuous inspection will not be required during prefabrication if the approved agency certifies to the construction and furnishes evidence of compliance.

**1717.6.8 Moving permits.** A moving permit shall be obtained for each prefabricated structure being moved within the city in accordance with Section 3408 Moved Buildings.

## SECTION 1804 EXCAVATION, GRADING AND FILL

### 15.12.470 IBC Chapter 18, Section 1804.4, GRADING AND FILL IN FLOODWAYS - AMENDED

IBC Chapter 18, Section 1804.4, **GRADING AND FILL IN FLOODWAYS**, is hereby amended to read as follows:

**1804.4 Grading and fill in floodways.** ~~In flood hazard areas established in Section 1612.3, grading and/or fill shall not be approved:~~

- ~~1. Unless such fill is placed, compacted and sloped to minimize shifting, slumping and erosion during the rise and fall of flood water and, as applicable, wave action.~~
- ~~2. In floodways, unless it has been demonstrated through hydrologic and hydraulic analyses performed by a registered design professional in accordance with standard engineering practice that the proposed grading or fill, or both, will not result in any increase in flood levels during the occurrence of the design flood.~~
- ~~3. In flood hazard areas subject to high velocity wave action, unless such fill is conducted and/or placed to avoid diversion of water and waves toward any building or structure.~~
- ~~4. Where design flood elevations are specified but floodways have not been designated, unless it has been demonstrated that the cumulative effect of the proposed flood hazard area encroachment, when combined with all other existing and anticipated flood hazard area encroachment, will not increase the design flood elevation more than 1 foot (305 mm) at any point.~~

See Chapter 15.32, Flood Area Construction Regulations, of the Rapid City Municipal Code.

## SECTION 1808 FOUNDATIONS

### 15.12.480 IBC Chapter 18, Section 1808.6.1.1, FROST PROTECTION – ADDED



IBC Chapter 18, Section 1808.6.1.1, **FROST PROTECTION**, is hereby added to read as follows:

**1808.6.1.1 Frost protection.** Except where otherwise protected from frost, foundation walls, piers 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 of the locality;
2. Constructing in accordance with ASCE-32; or
3. Erecting on solid rock.

**Exception:** Free-standing buildings meeting all of the following conditions shall not be required to be protected:

1. Classified in Importance Category I, in accordance with Section 1604.5;
2. Area of 1,000 square feet or less with a maximum truss span of 24 feet; and
3. Eave height of 10 feet (3048 mm) or less.

Footings shall not bear on frozen soil unless such frozen condition is of a permanent character.

## **SECTION 2701 GENERAL**

### **15.12.490 IBC Chapter 27, Section 2701.1 SCOPE – AMENDED**

IBC Chapter 27, Section 2701.1, **SCOPE**, is hereby amended to read as follows:

**2701.1 Scope.** This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of ~~NFPA-70~~ the current electrical code adopted by the City of Rapid City.

## **SECTION 2901 GENERAL**

### **15.12.500 IBC Chapter 29, Section 2901.1, SCOPE – AMENDED**

IBC Chapter 29, Section 2901.1, **SCOPE**, is hereby amended to read as follows:

**2901.1 Scope.** ~~The provisions of this chapter and the *International Plumbing Code* shall govern the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing equipment and systems. Plumbing systems and equipment shall~~

~~be constructed, installed and maintained in accordance with the *International Plumbing Code*. Private sewage disposal systems shall conform to the *International Private Sewage Disposal Code*.~~

This chapter governs the plumbing components, equipment and systems used in buildings and structures covered by this code. Plumbing components, equipment and systems shall be designed and constructed in accordance with the provisions of the current plumbing code adopted by the City of Rapid City.

## **SECTION 2902 MINIMUM PLUMBING FACILITIES**

### **15.12.510 IBC Chapter 29, Section [P]2902.1 Table, MINIMUM NUMBER OF FIXTURES – AMENDED**

IBC Chapter 29, Section [P]2901.1, Table, **MINIMUM NUMBER OF FIXTURES**, is hereby amended to read as follows: **See attached Table**

## **SECTION 3002 HOISTWAY ENCLOSURES**

### **15.12.520 IBC Chapter 30, Section 3002.7, COMMON ENCLOSURE WITH STAIRWAY – AMENDED**

IBC Chapter 30, Section 3002.7, **COMMON ENCLOSURE WITH STAIRWAY**, is hereby amended to read as follows:

**3002.7 Common enclosure with stairway.** Elevators shall not be in a common shaft enclosure with a stairway unless allowed as per Section 1022.

## **SECTION 3109 SWIMMING POOL ENCLOSURES AND SAFETY DEVICES**

### **15.12.530 IBC Chapter 31, Section 3109, SWIMMING POOL ENCLOSURES AND SAFETY DEVICES – DELETED**

IBC Chapter 31, Section 3109, **SWIMMING POOL ENCLOSURES AND SAFETY DEVICES**, is hereby deleted in its entirety. **(See Attached for Deleted Sections)**

**SECTION 3202  
ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY**

**15.12.540 IBC Chapter 32, Section 3202.5, PUBLIC RIGHT-OF-WAY – STRUCTURES PROHIBITED – EXCEPTIONS – ADDED**

IBC Chapter 32, Section 3202.5, **PUBLIC RIGHT-OF-WAY – STRUCTURES PROHIBITED – EXCEPTIONS**, is hereby added to read as follows:

**3202.5 Public rights-of-way – Structures prohibited – Exceptions.** [See section 12.20.030 of the Rapid City Municipal Code.](#)

**SECTION 3308  
TEMPORARY USE OF STREETS, ALLEYS, AND PUBLIC PROPERTY**

**15.28.550 IBC Chapter 33, Section 3308, TEMPORARY USE OF STREETS, ALLEYS, AND PUBLIC PROPERTY – DELETED**

IBC Chapter 33, Section 3308, **TEMPORARY USE OF STREETS, ALLEYS, AND PUBLIC PROPERTY**, is hereby deleted in its entirety.

**3308.1 Storage and handling of materials.** ~~The temporary use of streets or public property for the storage or handling of materials or of equipment required for construction or demolition, and the protection provided to the public shall comply with the provisions of the applicable governing authority and this chapter.~~

**3308.1.1 Obstructions.** ~~Construction materials and equipment shall not be placed or stored so as to obstruct access to fire hydrants, standpipes, fire or police alarm boxes, catch basins or manholes, nor shall such material or equipment be located within 20 feet (6096 mm) of a street intersection, or placed so as to obstruct normal observations of traffic signals or to hinder the use of public transit loading platforms.~~

**3308.2 Utility fixtures.** ~~Building materials, fences, sheds or any obstruction of any kind shall not be placed so as to obstruct free approach to any fire hydrant, fire department connection, utility pole, manhole, fire alarm box or catch basin, or so as to interfere with the passage of water in the gutter. Protection against damage shall be provided to such utility fixtures during the progress of the work, but sight of them shall not be obstructed.~~

**SECTION 3412  
COMPLIANCE ALTERNATIVES**

### 15.12.560 Chapter 34, Section 3412.2, APPLICABILITY – AMENDED

IBC Chapter 34, Section 3412.2, **APPLICABILITY**, is hereby amended to read as follows:

**3412.2 Applicability.** Structures existing prior to [the adoption of this code](#), in which there is work involving additions, alterations or changes of occupancy shall be made to comply with the requirements of this section or the provisions of Sections 3403 through 3409. The provisions in Sections 3412.2.1 through 3412.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, M, R, S and U. These provisions shall not apply to buildings with occupancies in Group H or I.

## APPENDIX I PATIO COVERS

### 15.12. 570 Appendix I, Section I104.2, FOOTINGS – AMENDED

IBC Appendix I, Section I104.2, **FOOTINGS**, is hereby amended to read as follows:

**I104.2 Footings.** ~~In areas with a frost depth of zero~~, a patio cover shall be permitted to be supported on a concrete slab on grade without footings, provided the slab conforms to the provisions of Chapter 19 of this code, is not less than 3 <sup>1/2</sup> inches (89 mm) thick and further provided that the columns do not support loads in excess of 750 pounds (3.36 kN) per column.

## APPENDIX J GRADING

### 15.12.580 IBC Appendix J, Section J101.2, FLOOD HAZARD AREAS– AMENDED

IBC Appendix J, Section J101.2, **FLOOD HAZARD AREAS**, is hereby amended to read as follows:

**J101.2 Flood hazard areas** ~~The provisions of this chapter shall not apply to grading, excavation and earthwork construction, including fills and embankments, in floodways within flood hazard areas established in Section 1612.3 or in flood hazard areas where design flood elevations are specified but floodways have not been designated, unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed work will not result in any increase in the level of the base flood.~~

[See Chapter 15.32, Flood Area Construction Regulations, of the Rapid City Municipal Code.](#)

### 15.12.590 IBC Appendix J, Section J103.1, PERMITS REQUIRED – AMENDED

IBC Appendix J, Section J103.1, **PERMITS REQUIRED**, is hereby amended to read as follows:

**J103.1 Permits required.** Except as exempted in Section J103.2, no grading shall be performed without first having obtained a permit therefore from the building official [and paying the required grading permit fee and grading plan review fee as established in Table 100-D and Table 100-E.](#) A grading permit does not include the construction of retaining walls or other structures.

**15.12.600 IBC Appendix J, Section J110, EROSION CONTROL - AMENDED**

IBC Appendix J, Section J110, **EROSION CONTROL** 1, is hereby amended to read as follows:

~~**J110.1 General.** The faces of cut and fill slopes shall be prepared and maintained to control erosion. This control shall be permitted to consist of effective planting.~~

~~**Exception:** Erosion control measures need not be provided on cut slopes not subject to erosion due to the erosion resistant character of the materials. Erosion control for the slopes shall be installed as soon as practicable and prior to calling for final inspection.~~  
[See Chapter 8.46, 8.48, and 8.50 of the Rapid City Municipal Code.](#)

TABLE 100-B CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND SPEED (mph)	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMPERATURE	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREE ZING INDEX	MEAN ANNUAL TEMPERATURE
			Weathering	Frost line depth	Termite					
42 psf <sup>1</sup>	90	B	Moderate	42"	None to slight	-7	Yes	2-18-98	1548	48° F

<sup>1</sup>The ground snow load for Rapid City shall be 42 psf and as per ASCE 705.

<sup>2</sup>Engineer design data shall be provided for roof areas where drifting occurs. The design data shall be shown on the plans.

TABLE 100-C IBC BUILDING PERMIT FEES

TOTAL VALUATION	FEE
\$1.00 to \$1,600.00	\$37.00
\$1,601 to \$2,000.00	\$69.25
\$2,001 to \$25,000.00	\$69.25 for the first \$2,000.00 plus \$14.00 for each additional \$1,000.00, or fraction thereof, to and including \$25,000.00
\$25,001.00 to \$50,000	\$391.25 for the first \$25,000.00 plus \$10.10 for each additional \$1,000.00, or fraction thereof, to and including \$ 50,000
\$50,001.00 to \$100,000.000	\$643.75 for the first \$50,000.00 plus \$7.00 for each additional \$1,000.00, or fraction thereof, to and including \$100,000.00
\$100,001.00 to \$500,000.00	\$993.75 for the first \$100,000.00 plus \$5.60 for each additional \$1,000.00, or fraction thereof, to and including \$500,000.00
\$500,00.00 to \$1,000,000.00	\$3,233.75 for the first \$500,000.00 plus \$4.75 for each additional \$1,000.00, or fraction thereof, to and including \$1,000,000.00
\$1,000,001.00 and up	\$5,608.75 for the first \$1,000,000.00 plus \$3.15 for each additional \$1,000.00, or fraction thereof
<b>Other Inspections and Fees:</b>	
1. Inspections outside of normal business hours.....\$47.00 per hour <sup>1</sup> (minimum charge – two hours)	
2. Re-inspection fees .....\$47.00 per hour <sup>1</sup>	
3. Inspections for which no fee is specifically indicated.....\$47.00 per hour <sup>1</sup> (minimum charge – one hour)	
4. Additional plan review required by changes, additions, or revisions to plans.....\$47.00 per hour <sup>1</sup> (minimum charge – one hour)	
5. For use of outside consultants for plan checking and inspections, or both.....Actual costs <sup>2</sup>	
6. <del>Plan review fees for 1 and 2 family dwellings and accessory structures shall be 10% of the building permit fee.</del>	
7. <u>6.</u> Plan review fees for all occupancies except 1 and 2 family dwellings shall be 50% of the building permit fee.	

<sup>1</sup>Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages, and fringe benefits of the employees involved.

<sup>2</sup>Actual costs include administrative and overhead costs.

TABLE 100-D GRADING PERMIT FEES<sup>1</sup>

CUBIC YARDS	FEE
50 or less	\$23.50
51 to 100	\$37.00
101 to 1,000	\$37.00 for the first 100 cubic yards plus \$17.50 for each additional 100 cubic yards or fraction thereof
1,001 to 10,000	\$194.50 for the first 1,000 cubic yards plus \$14.50 for each additional 1,000 cubic yards or fraction thereof
10,001 to 100,000	\$325.00 for the first 10,000 cubic yards plus \$66.00 for each additional 10,000 cubic yards or fraction thereof
100,001 cubic yards or more	\$919.00 for the first 100,000 cubic yards plus \$36.50 for each additional 10,000 cubic yards or fraction thereof
<b>Other Inspections and Fees:</b>	
1. Inspections outside of normal business hours.....\$50.50 per hour <sup>2</sup> (minimum charge – two hours)	
2. Re-inspection fees .....\$50.50 per hour <sup>2</sup>	
3. Inspections for which no fee is specifically indicated.....\$50.50 per hour <sup>2</sup> (minimum charge – one hour)	

<sup>1</sup>The fee for a grading permit authorizing additional work to that under a valid permit shall be the difference between the fee paid for the original permit and the fee shown for the entire project.

<sup>2</sup>Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employees involved.

For excavation and fill on the same site, the fee shall be based on the volume of excavation or fill, whichever is greater.

TABLE 100-E GRADING PLAN REVIEW FEES

CUBIC YARDS	FEE
50 or less	No fee
51 to 100	\$23.50
101 to 1,000	\$37.00
1,001 to 10,000	\$49.25
10,001 to 100,000	\$49.25 for the first 10,000 cubic yards plus \$24.50 for each additional 10,000 cubic yards or fraction thereof
100,001 to 200,000	\$269.75 for the first 100,000 cubic yards plus \$13.25 for each additional 10,000 cubic yards or fraction thereof
200,001 or more	\$402.25 for the first 200,000 cubic yards plus \$7.25 for each additional 10,000 cubic yards or fraction thereof
<b>Other Fees:</b> 1. Additional plan review required by changes, additions, or revisions to approved plans.....\$50.50 per hour* (minimum charge – two hours)	

\*Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employees involved.

CITY OF RAPID CITY

\_\_\_\_\_  
 Mayor

ATTEST:

\_\_\_\_\_  
 Finance Officer

(SEAL)



**TABLE 4-1**  
**Minimum Plumbing Facilities<sup>1</sup>**

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction. Table 4-1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building resulting in increased occupant load. Exception: New cafeterias used only by employees.

The total occupant load shall be determined in accordance with the Building Code. The type of building or occupancy shall be determined based on the actual use of the various spaces within the building. Building categories not shown in Table 4-1 shall be considered separately by the Authority Having Jurisdiction. The minimum number of fixtures shall be calculated at 50 percent male and 50 percent female based on the total occupant load.

Once the occupant load and uses are determined, the requirements of Section 412.0 and Table 4-1 shall be applied to determine the minimum number of plumbing fixtures required.

Type of Building <sup>2</sup> or Occupancy	Water Closets <sup>14</sup> (Fixtures per Person)		Urinals <sup>5,10</sup> (Fixtures per Person)	Lavatories (Fixtures per Person)		Bathtubs or Showers (Fixtures per Person)	Drinking <sup>13,17</sup> Fountains (Fixtures per Person)
	Male	Female		Male	Female		
Assembly places – theatres, auditoriums, convention halls, etc. – for permanent employee use	1: 1-15 2: 16-35 3: 36-55 Over 55, add 1 fixture for each additional 40 persons.	1: 1-15 3: 16-35 4: 36-55	0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	1 per 40	1 per 40		
Assembly places – theatres, auditoriums, convention halls, etc. – for public use	1: 1-100 2: 101-200 3: 201-400 Over 400, add one fixture for each additional 500 males and 1 for each additional 125 females.	3: 1-50 4: 51-100 8: 101-200 11: 201-400	1: 1-100 2: 101-200 3: 201-400 4: 401-600 Over 600, add 1 fixture for each additional 300 males.	1: 1-200 2: 201-400 3: 401-750 Over 750, add one fixture for each additional 500 persons.	1: 1-200 2: 201-400 3: 401-750		1: 1-150 2: 151-400 3: 401-750 Over 750, add one fixture for each additional 500 persons.
Dormitories <sup>3</sup> – School or labor <sup>16</sup>	1 per 10 Add 1 fixture for each additional 25 males (over 10) and 1 for each additional 20 females (over 8).	1 per 8	1 per 25 Over 150, add 1 fixture for each additional 50 males.	1 per 12 Over 12, add one fixture for each additional 20 males and 1 for each 15 additional females.	1 per 12	1 per 8 For females, add 1 bathtub per 30. Over 150, add 1 bathtub per 20.	1 per 150 <sup>22</sup>
Dormitories – for staff use <sup>16</sup>	1: 1-15 2: 16-35 3: 36-55 Over 55, add 1 fixture for each additional 40 persons.	1: 1-15 3: 16-35 4: 36-55	1 per 50	1 per 40	1 per 40	1 per 8	
Dwellings <sup>4</sup> Single dwelling Multiple dwelling or apartment house <sup>16</sup>	1 per dwelling 1 per dwelling or apartment unit			1 per dwelling 1 per dwelling or apartment unit		1 per dwelling 1 per dwelling or apartment unit	
Hospital waiting rooms	1 per room			1 per room			1 per 150 <sup>22</sup>
Hospitals – for employee use	1: 1-15 2: 16-35 3: 36-55 Over 55, add 1 fixture for each additional 40 persons.	1: 1-15 3: 16-35 4: 36-55	0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	1 per 40	1 per 40		

Table 4-1 continued

## UNIFORM PLUMBING CODE

Type of Building <sup>2</sup> or Occupancy	Water Closets <sup>14</sup> (Fixtures per Person)	Urinals <sup>5,10</sup> (Fixtures per Person)	Lavatories (Fixtures per Person)	Bathtubs or Showers (Fixtures per Person)	Drinking <sup>1,13,17</sup> Fountains (Fixtures per Person)
Public or profes- sional offices <sup>15</sup>	Same as Office or Public Buildings for employee use <sup>15</sup>	Same as Office or Public Buildings for employee use <sup>15</sup>	Same as Office or Public Buildings for employee use <sup>15</sup>		Same as Office or Public Build- ings for employee use <sup>15</sup>
Restaurants, pubs, and lounges <sup>11,15</sup>	Male      Female 1: 1-50    1: 1-50 2: 51-150 2: 51-150 3: 151-300 4: 151-300 Over 300, add 1 fixture for each additional 200 persons.	Male 1: 1-150 Over 150, add 1 fixture for each addi- tional 150 males.	Male      Female 1: 1-150   1: 1-150 2: 151-200 2: 151-200 3: 201-400 3: 201-400 Over 400, add 1 fixture for each addi- tional 400 persons.		
Retail or Whole- sale Stores	Male      Female 1:1-100    1:1-25 2:101-200 2:26-100 3:201-400 4:101-200 6:201-300 8: 301-400 Over 400, add one fixture for each additional 500 males and one for each 150 females	Male 0:0-25 1:26-100 2:101-200 3:201-400 4:401-600 Over 600, add one fixture for each addi- tional 300 males	1 per 2 water closets		0: 1-30 <sup>17</sup> 1:31-150 One additional drinking foun- tain for each 150 persons thereafter
Schools - for staff use All schools	Male      Female 1: 1-15    1: 1-15 2: 16-35   2: 16-35 3: 36-55   3: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 1 per 50	Male      Female 1 per 40    1 per 40		
Schools - for student use Nursery	Male      Female 1: 1-20    1: 1-20 2: 21-50   2: 21-50 Over 50, add 1 fixture for each additional 50 persons.		Male      Female 1: 1-25    1: 1-25 2: 26-50   2: 26-50 Over 50, add 1 fixture for each addi- tional 50 persons.		1 per 150 <sup>12</sup>
Elementary	Male      Female 1 per 30    1 per 25	Male 1 per 75	Male      Female 1 per 35    1 per 35		1 per 150 <sup>12</sup>
Secondary	Male      Female 1 per 40    1 per 30	Male 1 per 35	Male      Female 1 per 40    1 per 40		1 per 150 <sup>12</sup>
Others (colleges, universities, adult centers, etc.)	Male      Female 1 per 40    1 per 30	Male 1 per 35	Male      Female 1 per 40    1 per 40		1 per 150 <sup>12</sup>
Worship places educational and activities Unit	Male      Female 1 per 150   1 per 75	Male 1 per 150	1 per 2 water closets		1 per 150 <sup>12</sup>
Worship places principal assembly place	Male      Female 1 per 150   1 per 75	Male 1 per 150	1 per 2 water closets		1 per 150 <sup>12</sup>

PLUMBING FIXTURES AND FIXTURE FITTINGS

Table 4-1 continued

Type of Building <sup>2</sup> or Occupancy	Water Closets <sup>14</sup> (Fixtures per Person)	Urinals <sup>5,10</sup> (Fixtures per Person)	Lavatories (Fixtures per Person)	Bathtubs or Showers (Fixtures per Person)	Drinking <sup>3,15,17</sup> Fountains (Fixtures per Person)
Hospitals Individual room Ward room	1 per room 1 per 8 patients		1 per room 1 per 10 patients	1 per room 1 per 20 patients	1 per 150 <sup>17</sup>
Industrial <sup>6</sup> ware- houses, work- shops, foundries, and similar estab- lishments – for employee use	Male      Female 1: 1-10    1: 1-10 2: 11-25   2: 11-25 3: 26-50   3: 26-50 4: 51-75   4: 51-75 5: 76-100   5: 76-100 Over 100, add 1 fixture for each additional 30 persons.		Up to 100, 1 per 10 persons Over 100, 1 per 15 persons <sup>7,8</sup>	1 shower for each 15 persons exposed to excessive heat or to skin contami- nation with poisonous, infectious or irri- tating material	1 per 150 <sup>12</sup>
Institutional – other than hospi- tals or penal insti- tutions (on each occupied floor)	Male      Female 1 per 25    1 per 20	Male 0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	Male      Female 1 per 10    1 per 10	1 per 5	1 per 150 <sup>12</sup>
Institutional – other than hospi- tals or penal insti- tutions (on each occupied floor) – for employee use	Male      Female 1: 1-15    1: 1-15 2: 16-35   3: 16-35 3: 36-55   4: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	Male      Female 1 per 40    1 per 40	1 per 8	1 per 150 <sup>12</sup>
Office or public buildings	Male      Female 1: 1-100    3: 1-50 2: 101-200   4: 51-100 3: 201-400   8: 101-200 11: 201-400 Over 400, add one fixture for each additional 500 males and 1 for each addi- tional 150 females.	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600 Over 600, add 1 fixture for each addi- tional 300 males.	Male      Female 1: 1-200    1: 1-200 2: 201-400   2: 201-400 3: 401-750   3: 401-750 Over 750, add one fixture for each addi- tional 500 persons.		1 per 150 <sup>12</sup>
Office or public buildings – for employee use	Male      Female 1: 1-15    1: 1-15 2: 16-35   3: 16-35 3: 36-55   4: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	Female      Male 1 per 40    1 per 40		
Penal institutions – for employee use	Male      Female 1: 1-15    1: 1-15 2: 16-35   3: 16-35 3: 36-55   4: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	Male      Female 1 per 40    1 per 40		1 per 150 <sup>12</sup>
Penal institutions – for prison use Cell Exercise room	1 per cell 1 per exercise room	Male 1 per exercise room	1 per cell 1 per exercise room		1 per cell block floor 1 per exercise room