

## Recommended Amendments to the 2021 International Residential Code

**\*\*Section R102.4; change to read as follows:**

**R102.4 Referenced codes and standards.** The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections R102.4.1 and R102.4.2. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference made to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.

**\*\* Section R103 and R103.1 amend to insert the Department Name**

**DEPARTMENT OF BUILDING SAFETY Saginaw Building Department/ Code Compliance**

**R103.1 Creation of enforcement agency.** The ~~Department of Building Safety~~ Saginaw Building Department/ Code Compliance is hereby created and the official in charge thereof shall be known as the *building official*.

**\*\*\*Table R301.2 (1); fill in as follows:**

| GROUND<br>SNOW<br>LOAD | WIND DESIGN                                    |                                     |                                        |                                       | SEISMIC<br>DESIGN<br>CATEGORY <sup>f</sup> | SUBJECT TO<br>DAMAGE FROM |                                     |                      | WINTER<br>DESIGN<br>TEMP <sup>e</sup> | ICE BARRIER<br>UNDER-<br>LAYMENT <sup>h</sup> | FLOOD<br>HAZARDS <sup>g</sup> | AIR FREEZING<br>INDEX <sup>i</sup> | MEAN<br>ANNUAL<br>TEMP <sup>j</sup> |
|------------------------|------------------------------------------------|-------------------------------------|----------------------------------------|---------------------------------------|--------------------------------------------|---------------------------|-------------------------------------|----------------------|---------------------------------------|-----------------------------------------------|-------------------------------|------------------------------------|-------------------------------------|
|                        | SPEED <sup>d</sup><br>(MPH)                    | Topographic<br>Effects <sup>k</sup> | Wind<br>Special<br>Region <sup>L</sup> | Windborne<br>Debris Zone <sup>m</sup> |                                            | Weathering <sup>a</sup>   | Frost<br>Line<br>Depth <sup>b</sup> | Termite <sup>c</sup> |                                       |                                               |                               |                                    |                                     |
| 5 lb/ft                | 115<br>(3 sec-<br>gust)/ 76<br>fastest<br>mile | No                                  | No                                     | No                                    | A                                          | Moderate                  | 6"                                  | Very<br>Heavy        | 22° F                                 | No                                            | Local<br>Code                 | 150                                | 64.9°<br>F                          |
|                        |                                                |                                     |                                        |                                       |                                            |                           |                                     |                      |                                       |                                               |                               |                                    |                                     |

**Delete remainder of table Manual J Design Criteria and footnote N**

**\*\*Section R303.3, Exception; amend to read as follows:**

**Exception:** {existing text unchanged} Spaces containing only a water closet or water closet and a lavatory may be ventilated with an approved mechanical recirculating fan or similar device designed to remove odors from the air.

(Reason: Consistent with common local practice as recirculating fans are recognized as acceptable air movement.)

**\*\*\*R307.3 Blocking.** Required at one toilet at grade level. Blocking per Sec. R307.4 and Figure 307.4, shall be installed at rear wall and one wall adjacent to toilet at the lowest living level where a toilet is provided.

**\*\*\*R307.4 Blocking.** Blocking may be 1/2" plywood or equivalent or 2 x solid wood blocking flush with wall.

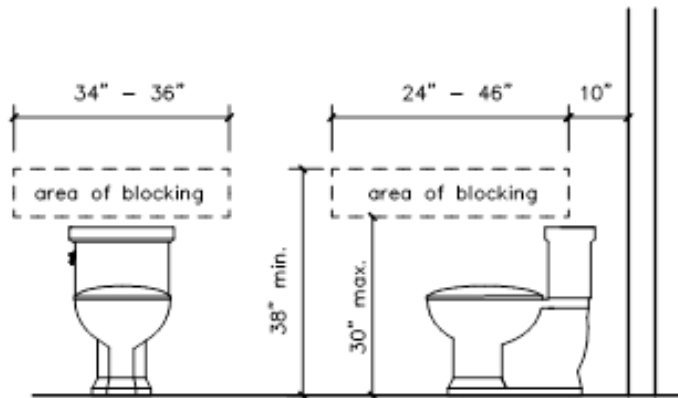


Figure 307.4

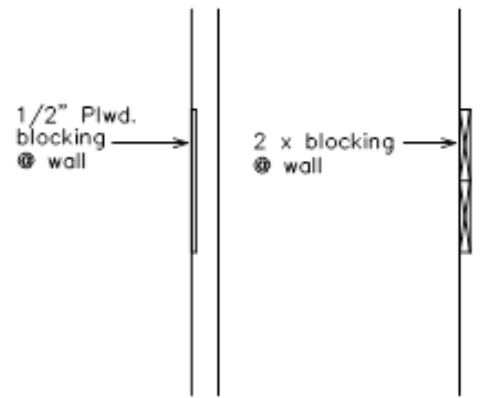


Figure 307.4

**\*\*\*Section 327.1.1; add to read as follows:**

**Section 327.1.1 Adjacency to Structural Foundation.** Depth of the swimming pool and spa shall maintain a ratio of 1:1 from the nearest building foundation or footing of a retaining wall.

**Exception:**

A sealed engineered design drawing of the proposed new structure shall be submitted for approval.

**\*\*Section R401.2; amended by adding a new paragraph following the existing paragraph to read as follows.**

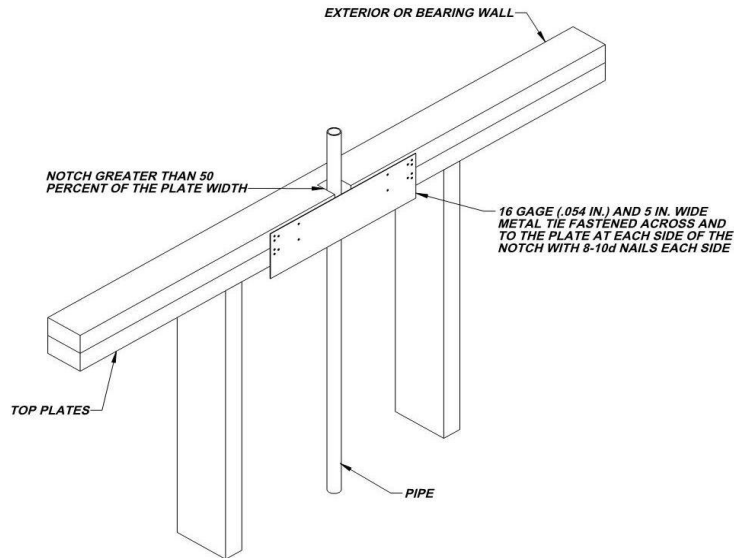
**Section R401.2. Requirements.** *{existing text unchanged}* ...

Every foundation and/or footing, or any size addition to an existing post-tension foundation, regulated by this code shall be designed and sealed by a Texas-registered engineer.

**\*\*Section R602.6.1; amend the following:**

**R602.6.1 Drilling and notching of top plate.** When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50 percent of its width, a galvanized metal tie not less than 0.054 inch thick (1.37 mm) (16 Ga) and ~~1-1/2 inches (38 mm)~~ 5 inches (127 mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d (0.148 inch diameter) having a minimum length of 1 1/2 inches (38 mm) at each side or equivalent. Fasteners will be offset to prevent splitting of the top plate material. The metal tie must extend a minimum of 6 inches past the opening. See figure R602.6.1. *{remainder unchanged}*

**\*\*Figure R602.6.1; delete the figure and insert the following figure:**



**\*\*Add section R703.8.4.1.2 Veneer Ties for Wall Studs; to read as follows:**

**R703.8.4.1.2 Veneer Ties for Wall Studs.** In stud framed exterior walls, all ties may be anchored to studs as follows:

1. When studs are 16 in (407 mm) o.c., stud ties shall be spaced no further apart than 24 in (737 mm) vertically starting approximately 12 in (381 mm) from the foundation; or
2. When studs are 24 in (610 mm) o.c., stud ties shall be spaced no further apart than 16 in (483 mm) vertically starting approximately 8 in (254 mm) from the foundation.

**\*\* Chapter 11 [RE] – Energy Efficiency is deleted in its entirety; Reference the 2021 IECC for energy code provisions and recommended amendments.**

**\*\*Section G2408.3 (305.5)Private Garages; delete this section in its entirety.**

**\*\*Section G2415.12 (404.12) and G2415.12.1 (404.12.1); change to read as follows:**

**G2415.12 (404.12) Minimum burial depth.** Underground *piping systems* shall be installed a minimum depth of ~~12 inches (305 mm)~~ 18 inches (457 mm) below grade, ~~except as provided for in Section G2415.12.1.~~

**G2415.12.1 (404.12.1) Individual Outdoor Appliances; Delete in its entirety**

**\*\*Section G2417.4; change to read as follows:**

**G2417.4 (406.4) Test pressure measurement.** Test pressure shall be measured with a monometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of

pressure shall be isolated before the pressure tests are made. ~~Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure.~~

**\*\*Section G2421.1 (410.1); add text and Exception to read as follows:**

**G2421.1 (410.1) Pressure regulators.** A line *pressure regulator* shall be ... *{bulk of paragraph unchanged}*... approved for outdoor installation. Access to regulators shall comply with the requirements for access to appliances as specified in Section M1305.

**Exception:** A passageway or level service space is not required when the *regulator* is capable of being serviced and removed through the required *attic* opening.

**\*\*Section P2603; add to read as follows:**

**P2603.3 Protection against corrosion.** Metallic piping, except for cast iron, ductile iron and galvanized steel, shall not be placed in direct contact with steel framing members, concrete or cinder walls and floors or other masonry. Metallic piping shall not be placed in direct contact with corrosive soil. Where sheathing is used to prevent direct contact, the sheathing shall have a thickness of not less than 0.008 inch (8 mil) (0.203 mm) and the sheathing shall be made of approved material plastic. Where sheathing protects piping that penetrates concrete or masonry walls or floors, the sheathing shall be installed in a manner that allows movement of the piping within the sheathing.

**\*\*Section P2603.5.1 Sewer Depth; change to read as follows:**

**P2603.5.1 Sewer depth.** Building sewers that connect to private sewage disposal systems shall be a minimum of [number] inches (mm) below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 12 inches (304 mm) below grade.

**\*\*Section P2902.5.3; change to read as follows:**

**P2902.5.3 Lawn irrigation systems.** The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker, a double-check assembly or a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.