



# PROPOSAL FOR CODE CHANGE

State Form 41186 (R3 / 5-10)

JUN 11 2018

## LEGAL AND CODE SERVICES



Leadership for a Safe and Secure Indiana

### INSTRUCTIONS:

1. Only a TYPED copy will be accepted.
2. ~~Dashed line through material to be deleted.~~ Underline or bold face material to be added.
3. Use a second sheet for any material requiring more space.
4. Return this completed form to: Indiana Department of Homeland Security, Code Services, 402 West Washington Street, Room W246, Indianapolis, Indiana 46204.

### FOR OFFICE USE ONLY

Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b># 79</b>
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>
Section number and title <b>R322.3.2 Elevation requirements.</b>		Page Number <b>1 of 1, codebook page 82</b>
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>
PROPOSED CODE CHANGE (check one)		
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution		
<b>R322.3.2 Elevation requirements.</b> 1. Buildings and structures erected within coastal high-hazard areas ( <u>V zones</u> ) and Coastal A Zones, shall be elevated so that the bottom of <del>the lowest horizontal structural members</del> <u>portion of all structural members</u> supporting the lowest floor, with the exception of piling, pile caps, columns, grade beams and bracing, <del>is</del> <u>are</u> elevated to or above the <u>base design</u> flood elevation <u>plus 1 foot (305 mm)</u> <del>or the design flood elevation, whichever is higher.</del> 2. Basement floors that are below <i>grade</i> on all sides are prohibited. 3. The use of fill for structural support is prohibited. 4. Minor grading, and the placement of minor quantities of fill, shall be permitted for landscaping and for drainage purposes under and around buildings and for support of parking slabs, pool decks, patios and walkways. 5. Walls and partitions enclosing areas below the design flood elevation shall meet the requirements of Sections R322.3.5 and R322.3.6.		
REASON STATEMENT AND FISCAL IMPACT		
This amendment would add Indiana language to the InRC for elevation requirements in costal high-hazard areas. Fiscal impact: No fiscal impact, rules already in place.		
REVIEW RECOMMENDATION		
Approve	<b>Motion, Second, Approved as submitted</b>	
Reject		
Approve as amended		
Further study		



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JUN 13 2018

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FOR OFFICE USE ONLY			
Received	6/13/18	Code	2018 IRC
		Proposal number	#80
Code title		Edition	
International Residential Code		2018	
Section number and title		Page Number	
R326 Swimming Pools, Spas and Hot Tubs		87	
Proponent		Representing (if applicable)	
Lynn Madden, Hallmark Homes			
Address (number and street, city, state, and ZIP code)		Telephone number	
PROPOSED CODE CHANGE (check one)			
<input type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input checked="" type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
SECTION R326 SWIMMING POOLS			
See attachment for language from 675 IAC 14-4.3-270 Swimming pools; special provisions			
Amendments: 1. Under 675 IAC 14-4.3 -271 (1)(H), delete "or is listed in 675 IAC 12-6-1." 2. Under 675 IAC 14-4.3-296 (3)(D)(iv), update ASTM F 13-46-91 to 2018 standard.			
REASON STATEMENT AND FISCAL IMPACT			
Reason: This language is from the 2005 Indiana Residential Code.			
Fiscal impact: No fiscal impact.			
REVIEW RECOMMENDATION			
Approve			
Reject			
Approve as amended			
Motion, Second, Approved as amended			
Further study			

*Prevention and Building Safety Commission; 675 IAC 14-4.3-264; filed Jun 13, 2005, 3:00 p.m.: 28 IR 3304, eff 90 days after filing with the Secretary of State; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-265 Appendix H; patio covers**

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 265. Delete APPENDIX H. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-265; filed Jun 13, 2005, 3:00 p.m.: 28 IR 3304, eff 90 days after filing with the Secretary of State; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-266 Appendix I; private sewage disposal**

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 266. Delete APPENDIX I. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-266; filed Jun 13, 2005, 3:00 p.m.: 28 IR 3304, eff 90 days after filing with the Secretary of State; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-267 Appendix J; existing buildings and structures**

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 267. Delete APPENDIX J and substitute to read as follows: See the General Administrative Rules (675 IAC 12) and local ordinance. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-267; filed Jun 13, 2005, 3:00 p.m.: 28 IR 3304, eff 90 days after filing with the Secretary of State; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-268 Appendix K; sound transmission**

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 268. Delete APPENDIX K. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-268; filed Jun 13, 2005, 3:00 p.m.: 28 IR 3304, eff 90 days after filing with the Secretary of State; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-269 Appendix L; ICC International Residential Electrical Provisions/National Electrical Code Cross Reference**

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-14; IC 22-15; IC 36-7

Sec. 269. Delete APPENDIX L. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-269; filed Jun 13, 2005, 3:00 p.m.: 28 IR 3304, eff 90 days after filing with the Secretary of State; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-270 Swimming pools; special provisions**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7



Sec. 270. Section S4201-Special provisions is added as follows:

- (1) S4201.1 Residential swimming pools are Class 2 structures according to IC 22-12-1-5. Enforcement of this rule is the responsibility of local units of government.
- (2) S4201.2 The provisions of this rule are not intended to restrict the appropriate use of materials, equipment, or methods of design not specifically described in this rule.
- (3) S4201.3 The enforcing official may require submission of evidence or proof that substantiates any claims made regarding the appropriate use of materials, equipment, or methods of design.
- (4) S4201.4 This section shall not authorize a variance from or modification of any rule of the fire prevention and building safety commission except pursuant to variance authority provided for in IC 22-13-2-7 and IC 22-13-2-11.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-270; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-271 Swimming pools; definitions**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7-2-9; IC 36-8-17-9

Sec. 271. Section S4202-Definitions is added as follows:

- (1) S4202.1 Definitions; general. For the purpose of this code, the definitions in this section apply throughout this chapter.
- (2) S4202.2 Definitions "A"

(A) "Abrasion hazard" means a sharp or rough surface that could cause injury under normal use.

(B) "Accessible" means, when applied to a fixture, connection, appliance, or equipment, having access thereto, but may require the removal of an access panel, door, or similar obstruction. "Readily accessible" means direct access without the necessity of removing any panel, door, or similar obstruction.

(C) "Agitation" means the mechanical or manual movement to dislodge the filter aid and dirt from the filter element.

(D) "Airbreak" means a physical separation that may be a low inlet into the indirect waste receptor from the fixture, appliance, or device indirectly connected.

(E) "Air bump assist backwash" means, in a diatomite type filter, the compressing of a volume of air in the filter effluent chamber (by means of an air compressor or by the water pressure from the recirculating pump) that, when released, rapidly decompresses and forces water in the filter tank through the elements in a reverse direction dislodging the filter aid and accumulated dirt and carrying them to waste.

(F) "Airgap" means the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet conveying water or waste to a tank, plumbing fixture receptor, or other device and the flood level rim of the receptacle.

(G) "Approved" means, as to materials, equipment, design, and types of construction, acceptance by the code official by one (1) of the following methods:

(i) Investigation or tests conducted by recognized authorities.

(ii) Investigation or tests conducted by technical or scientific organizations.

(iii) Accepted principles.

The investigation, tests, or principles shall establish that the materials, equipment, and types of construction are safe for the intended purpose.

(H) "Approved agency" means an established and recognized agency regularly engaged in conducting tests or furnishing inspection services, when such agency has been approved by the state building commissioner, ~~or is listed in 675 IAC 12-6-1.~~

- (3) S4202.3 Definitions "B"

(A) "Backwash" means the process of thoroughly cleaning the filter medium or elements, or both, by the reverse flow of water.

(B) "Backwash cycle" means the time required to backwash the filter system thoroughly.

(C) "Backwash pipe" means a type of "filter waste discharge piping" as defined in subdivision (7)(N).



(D) "Backwash rate" means the rate of application of water through a filter during the backwash cycle expressed in gallons per minute per square foot of effective filter area.

(E) "Basin" means any vessel constructed of man-made materials and designed to hold water to be used as a swimming pool, spa, or hot tub.

(F) "Bather" means a person using the pool and adjoining deck areas for the purpose of water sports or related activities.

(G) "Body feed" means the continuous addition of controlled amounts of filter aid during the operation of a diatomite type filter to maintain a permeable filter cake. If added as a slurry, this may be referred to as a slurry feed.

(H) "Booster pump system" means a device used to provide hydraulic support for certain types of equipment such as the following:

- (i) Pool cleaning systems.
- (ii) Chlorinators.
- (iii) Solar systems.
- (iv) Therapy jets.
- (v) Water features.

(I) "Breakpoint chlorination" means the addition of a sufficient amount of chlorine to water to destroy the combined chlorine present.

(4) S4202.4 Definitions "C"

(A) "Cartridge" means a filter component of either the depth or surface type having fixed dimensions and designed to remove suspended particles from water flowing through the unit.

(B) "Cartridge, depth type" means a filter cartridge with a medium relying on penetration of particulates into the medium for removal and providing adequate holding capacity of such particulates.

(C) "Cartridge, surface type" means a filter cartridge with a medium relying on retention of particles on the surface of the cartridge for removal.

(D) "Chemical feeder" means any device used to feed chemicals such as sanitizers, pH adjusters, algicide, etc. into a pool or spa.

(E) "Chemical feeder output rate" means the weight or volume of active ingredients delivered by a chemical feeder expressed in units of weight of volume and time.

(F) "Chemical feed rate indicator" means a mechanism that will produce reproducible results expressed in units of weight or volume of chemical per unit of time or per unit of volume of water. The mechanism may:

- (i) be a direct reading instrument; or
- (ii) require the use of a reference chart.

(G) "Chemical piping" means piping that conveys concentrated chemical solutions from a feeding apparatus to the circulation piping.

(H) "Circulation system" means an arrangement of mechanical equipment or components, or both, designed to ensure even distribution of heat, chemicals, and filtrated water throughout the pool or spa. The term includes filters, pumps, strainers, disinfectant, or other chemical feed devices, piping, inlets, drains, overflow fittings, and other appurtenances.

(I) "Code official" means the local building official as authorized under IC 36-7-2-9 and local ordinance.

(J) "Corrosion-resistant" means capable of maintaining original surface characteristics under the prolonged influence of the use environment.

(K) "Cove" means the radius between the wall and the floor.

(5) S4202.5 Definitions "D"

(A) "Decks" means those areas surrounding a pool that are specifically constructed or installed for use by bathers.

(B) "Deep areas" means the portions of a pool having water depths in excess of five (5) feet.

(C) "Design head" means the total head requirement of the circulation system at the design rate of flow.

(D) "Design rate of flow (design filter rate)" means the rate of flow in a system that is used for design calculation. (The volume of the pool, spa, or hot tub in gallons divided by the number of minutes in the turnover time.)

(E) "Diatomite filter" means one designed to filter water through a thin layer of filter aid such as diatomaceous earth or volcanic ash. Diatomite filters may be of the pressure or vacuum type.

- (F) "Distribution system, lower" means those devices used in the bottom of a sand type filter to:
- (i) collect the water uniformly during the filtering; and
  - (ii) distribute the backwash water uniformly during the backwashing.
- (G) "Distribution system, upper" means those devices designed to distribute the water entering a sand type filter in a manner such as to prevent movement or migration of the filter media. This system shall also properly collect water during filter backwashing unless other means are provided.
- (H) "Diving board" means a recreational mechanism for entering a swimming pool, consisting of a semirigid board that derives its elasticity through the use of a fulcrum mounted below the board.
- (I) "Diving equipment, manufactured" means manufactured diving equipment and shall include diving boards, jump boards, and spring boards. Architectural features such as decorative rocks and elevated bond beams are not considered to be manufactured diving equipment.
- (6) S4202.6 Definitions "E"
- "Effective filtration area" means the total surface area through which the design flow rate will be maintained during filtration.
- (7) S4202.7 Definitions "F"
- (A) "Face piping" means the piping, with all valves and fittings, that is used to connect the filter system together as a unit.
- (B) "Filter" means a device that separates solid particles from water by circulating the water through a porous substance(a filter medium element).
- (C) "Filter aid" means a type of finely divided media used to coat a septum type filter, usually diatomaceous earth or volcanic ash. (Note: Alum, as used on the bed of a sand filter, is also referred to as a filter aid.)
- (D) "Filter, cartridge" means a filter that uses a porous cartridge as its filter medium.
- (E) "Filter cycle" means the operating time between cleaning or backwash cycles.
- (F) "Filter, diatomaceous earth" means a filter that uses a thin layer of diatomaceous earth as its filter medium that periodically must be replaced.
- (G) "Filter element" means that part of a filter that supports the surface upon which the filter aid is deposited (usually in diatomite filters).
- (H) "Filter media" means the finely graded material that entraps suspended particles (sand, anthracite, etc.).
- (I) "Filter, permanent medium" means a filter that under normal use will not have to be replaced.
- (J) "Filter rate" means the rate of application of water to a filter expressed in gallons per minute per square foot of effective filter area.
- (K) "Filter rock" means graded, rounded rock or gravel, or both, not subject to degradation by common pool chemical used to support filter media.
- (L) "Filter sand" means a specially graded type of permanent filter media.
- (M) "Filter septum" means that part of the filter element in a diatomite type filter upon which a cake of diatomite or other nonpermanent filter aid may be deposited.
- (N) "Filter waste discharge piping" means piping that conducts wastewater from a filter to a drainage system. Connection to drainage system is made through an airgap or other approved method.
- (O) "Floor" means the interior bottom pool surface and consists of that surface from a horizontal plane up to a maximum of a forty-five (45) degree slope.
- (P) "Flow balance valve" means a device to regulate the effluent from the skimmer housing of each of a combination of two (2) or more surface skimmers.
- (Q) "Freeboard" means the clear vertical distance in a sand type filter between the top of the filter media and the lowest outlet of the upper distribution system.
- (R) "Fresh water" means water having a specific conductivity less than a solution containing six thousand (6,000) parts per million of sodium chloride.
- (S) "Friction loss" means the pressure drop expressed in feet of water or psi caused by liquid flowing through the piping and fittings.
- (8) S4202.8 Definitions "H"

- (A) "Head loss" means the total pressure drop in pounds per square inch (kilo Pascals) or feet (meters) or head between the inlet and the outlet of a component.
- (B) "High rate sand filter" means a sand filter designed for flows in excess of five (5) gallons per minute per square foot.
- (C) "Hydrojet booster pump system" means a system whereby one (1) or more hydrojets are activated by the use of a pump that is completely independent of the filtration and heating system of a spa.
- (D) "Hydrojets" means a fitting that blends air and water creating a high velocity, turbulent stream of air enriched water.
- (9) S4202.9 Definitions "I"
- (A) "Indirect waste pipe" means a pipe that does not connect directly with the drainage system but conveys liquid wastes by discharging into a plumbing fixture, interceptor, or receptacle that is directly connected to the drainage system.
- (B) "Inlet fitting" means a fitting or fixture through which circulated or hydrojetted water enters a pool, spa, or hot tub.
- (C) "Interactive play attraction" means a water attraction, including, but not limited to, splash pads, spray pads, and manufactured devices using sprayed, jetted, or other water sources contacting the users, not incorporating standing or captured water as part of the user activity area, and not utilizing a pool or spa circulation system.
- (10) S4202.10 Definitions "J"
- "Jump board" means a recreational mechanism that has a coil spring, leaf spring, or comparable device located beneath the board that is activated by the force exerted in jumping on the board.
- (11) S4202.11 Definitions "L"
- (A) "Ladders" means the following:
- (i) "Deck ladder" means a ladder for deck access from outside the pool.
  - (ii) "In-pool ladder" means a ladder located in a pool to provide ingress and egress from the deck.
  - (iii) "Limited access ladder" means a ladder with provision for making entry inaccessible when a pool is not in use, that is, swing-up, slide-up, or equivalent.
- (B) "Liner" means the membrane that acts as a container for the water, usually categorized as one (1) of the following:
- (i) "Expandable liner" means a liner that is constructed of a material that has the capability of stretching into a greater depth of irregular shape other than the original constructed dimensions.
  - (ii) "Hopper liner" means a liner that is used to obtain greater depth by geometrical pattern construction on the liner bottom or floor to fit a predetermined size and shape.
- (C) "Listed" means equipment or materials included in a list published by an organization engaged in product evaluation, that maintains periodic inspection of production of listed equipment or materials, and whose listing states either that the equipment or material meets appropriate standards or has been tested and found suitable for use in a specified manner.
- (D) "Lower distribution system" (underdrain) means those devices used in the bottom of a permanent medium filter to collect the water during the filtering and to distribute the water during the backwashing.
- (12) S4202.12 Definitions "M"
- (A) "Main outlet" means the outlet fitting or fittings at or near the deepest portion of a swimming pool, spa, or hot tub through which water passes to the recirculating system. This outlet is often referred to as the "main drain".
- (B) "Make-up water" means fresh water used to fill or refill the pool.
- (C) "Multiport valve" means a valve for various filter operations, which combines in one (1) unit the function of two (2) or more single direct flow valves.
- (13) S4202.13 Definitions "N"
- (A) "Net positive suction head (NPSH)" means the head available at the entrance or eye of an impeller to move and accelerate the water entering the eye. This head is the gauge pressure at the suction flange of the pump plus the velocity head.
- (B) "Nonswimming area" means any portion of a pool where water depth, offset ledges, or similar irregularities would prevent normal swimming activities.



- (C) "NPSH, available" means a function of the system in which the pump operates. The available NPSH at the desired rate of flow.
- (D) "NPSH, required" means a function of the pump design that varies among different makes, and a valve that must be supplied by the pump manufacturer.
- (14) S4202.14 Definitions "P"
- (A) "Perimeter overflow system" means a continuous channel formed into the sidewall entirely around the perimeter of the pool, unless interrupted by steps, into which surface pool water is continuously drawn during normal operation to provide a skimming action.
- (B) "Pinching hazard" means any configuration of components that would pinch or entrap the fingers or toes of a bather.
- (C) "Pool" includes the following:
- (i) "Combination pool" means a pool used for swimming and diving.
  - (ii) "Vanishing edge pool" means a pool where the top of one (1) or more of the basin wall or walls is submerged with no adjacent deck or decks.
  - (iii) "Wading pool" means a shallow pool having a maximum depth of twenty-four (24) inches and intended for children's play.
  - (iv) "Whirlpool". See "Spa".
  - (v) "Zero-depth entry pool" means a water attraction having a sloped entrance to where the water depth is zero (0) inches at the shallowest point.
- (D) "Pool depth" means the distance between the floor of pool and the waterline.
- (E) "Pool plumbing" means all chemical, circulation, filter waste discharge piping, deck drainage, and water filling systems.
- (F) "Positive displacement" means the mechanical displacement of a volume of fluid.
- (G) "Precipitate" means a solid material that:
- (i) is forced out of a solution by some chemical reaction; and
  - (ii) may settle out or remain as a haze in suspension (turbidity).
- (H) "Precoat" means the initial coating of filter aid on the septum of a diatomaceous earth filter.
- (I) "Pump discharge pressure" means the actual gauge reading measured in pounds per square inch taken at the discharge outlet of a pump.
- (J) "Puncture hazard" means any surface or protrusion that would puncture a bather's skin under casual contact.
- (15) S4202.15 Definitions "R"
- (A) "Rapid sand filter" means a filter designed to be used with sand as the filter media.
- (B) "Rated pressure" means that pressure that is equal to or less than the designed pressure and appears on the data plate of the equipment.
- (C) "Receptor" means an approved plumbing fixture or device of such material, shape, and capacity as to adequately receive the discharge from indirect waste piping, so constructed and located as to be readily cleaned.
- (D) "Recessed treads" means a series of vertically spaced cavities in the pool wall creating tread areas for steps.
- (E) "Removable" means capable of being disassembled with the use of only a simple tool such as a screwdriver, pliers, or a wrench.
- (F) "Return piping" means that part of the piping between the filter and the pool or spa through which passes the filtered water. (This piping frequently is referred to as "effluent piping".)
- (G) "Rope and float line" (transition rope) means a continuous line not less than one-fourth (1/4) inch in diameter that is supported by buoys and attached to opposite sides of a pool to separate the deep and shallow ends.
- (16) S4202.16 Definitions "S"
- (A) "Saline water" means water having a specific conductivity in excess of a solution containing six thousand (6,000) parts per million of sodium chloride.
- (B) "Separation tank" means a device used to clarify filter rinse or wastewater. It is sometimes called a "reclamation tank".
- (C) "Septum" means that part of the filter element consisting of cloth, wire screen, or other porous material on which

the filter cake is deposited.

(D) "Shallow areas" means those portions of a pool ranging in water depth from two (2) to five (5) feet.

(E) "Skim filter" means a surface skimmer combined with a vacuum filter.

(F) "Spa" means any spa that incorporates hot water jets, cold water jets, aeration systems, or any combination of the same for hydromassage.

(G) "Spa, permanent" means a spa in which the water-heating and water-circulating equipment is not an integral part of the product. Permanent spas may employ:

- (i) separate components such as an individual filter, pump, heater, and controls; or
- (ii) assembled combinations of various components.

(H) "Spa, portable, residential" means a spa in which all control, water-heating, and water-circulating equipment is an integral part of the product. Portable residential spas may be permanently wired or cord-connected. The spa shall be movable and aboveground.

(I) "Spray rinse, manual" means a spray system intended to be used manually for the washing of filter aid or accumulated dirt, or both, from a filter surface either in place or after removal from the filter tank. This is usually accomplished by means of a hose and nozzle.

(J) "Static suction lift" means the vertical distance in feet from the center line of the pump impeller to the level of water in the pool.

(K) "Steps" means a tread or series of treads extending down from the deck and terminating at the pool bottom.

(L) "Steps, recessed" means a step or series of steps that are recessed so that all risers are located outside the pool wall.

(M) "Steps, recessed steps, ladders, and recessed treads" means methods of pool ingress and egress that may be used alone or in conjunction with one another.

(N) "Strainer" means a device used to remove hair, lint, leaves, or other coarse material on the suction side of a pump.

(O) "Suction piping" means that portion of the circulation piping located between the pool structure and the inlet side of the pump and usually includes the following:

- (i) Main outlet piping.
- (ii) Skimmer piping.
- (iii) Vacuum piping.
- (iv) Surge tank piping.

(P) "Surface skimmer" means a device designed to continuously remove surface film and water and return it through the filter as part of the recirculation system, usually incorporating a self-adjusting weir, a collection tank, and a means to prevent air lock of the pump. It is sometimes referred to as a "recirculating overflow", a "mechanical", or an "automatic skimmer".

(Q) "Swimming pool" means any artificial basin of water constructed, modified, or improved for wading, swimming, or diving. The term does not include artificial lakes. The term includes the following:

- (i) "Swimming pool, in-ground" means any pool whose sides rest in partial or full contact with the earth.
- (ii) "Swimming pool, on-ground" means any pool whose sides rest fully above the surrounding earth.
- (iii) "Swimming pool, residential" means any in-ground pool or on-ground pool capable of a water depth greater than forty-two (42) inches (one thousand sixty-seven (1,067) mm), and all pools installed inside a residence, regardless of water depth, whether or not served by electrical circuits of any nature, and which is intended for noncommercial use as a swimming pool by not more than two (2) owner families and their guests.

(17) S4202.17 Definitions "T"

(A) "Total discharge head" means the value in feet of water that a pump will raise water above its center line.

(B) "Total dynamic head" or "TDH" means the arithmetical difference between the total discharge head and total suction head (a vacuum reading is considered as a negative pressure). This value is used to develop the published performance curve.

(C) "Total dynamic suction lift" or "TDSL" means the arithmetical total of static suction lift, friction head loss, and velocity head loss working on the suction side of the pump.

(D) "Total suction head" means the value in feet of water that a pump will lift by suction.

(E) "Toxic" means having an adverse physiological effect on man.

- (F) "Trap" means a fitting or device so designed and constructed as to provide, when properly vented, a liquid seal that will prevent the back passage of air without materially affecting the flow of sewage or wastewater through it.
- (G) "Trimmer valve" means a flow adjusting device that is used to proportion flow over the skimming weir and flow through the main suction line from the main outlet or the vacuum cleaning line.
- (H) "Turnover time" means the period of time required to circulate a volume of water equal to the pool capacity.
- (18) S4202.18 Definitions "U"
- (A) "Underwater light" means a fixture designed to illuminate a pool from beneath the water surface, further defined as:
- (i) "dry niche light" means a light unit placed behind a watertight window in the pool wall; or
  - (ii) "wet niche light" means a watertight and water-cooled light unit placed in a submerged, wet niche in the pool wall and accessible only from the pool.
- (B) "Upper distribution system" means those devices designed to distribute the water entering a permanent medium filter in a manner so as to prevent movement or migration of the filter medium. This system shall also properly collect water during filter backwashing unless other means are provided.
- (19) S4202.19 Definitions "V"
- (A) "Vacuum piping" means the piping from the suction side of a pump connected to a vacuum fitting located at the pool and below the water level to which underwater cleaning equipment may be attached.
- (B) "Velocity" means a measurement of the motion of liquids usually expressed in feet per second.
- (C) "Vertical" means a truly plumb line of surface running perpendicular to the plane of the horizon.
- (20) S4202.20 Definitions "W"
- (A) "Wading area" means the portions of a pool having water depths of two (2) feet and less.
- (B) "Walls" means interior pool wall surfaces consisting of surfaces from the vertical to a forty-five (45) degree slope.
- (C) "Waste piping" means piping that conveys wastewater.
- (D) "Waterline" means one (1) of the following:
- (i) The waterline for the skimmer system shall fall in the midpoint of the operating range of the skimmers.
  - (ii) The waterline for the overflow system shall be established by the height of the overflow rim or the mid-level of surge weirs, if present.
- (E) "Width or length" means the actual water dimension taken from wall to wall at the waterline.
- (F) "Winterizing" means the procedure for preparing pools from freezing weather. The term includes chemical treatment of the standing water, plus physical and chemical protection of the pool and its equipment against freezing.
- (G) "Working pressure" means the maximum operating water pressure recommended by the manufacturer.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-271; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

#### **675 IAC 14-4.3-272 Structural design**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 272. S4203 Structural design is added as follows:

- (1) S4203.1 Prior to construction, rehabilitation, or alteration of a permanently installed residential pool, plans and specifications shall be submitted to the local authority when required by local ordinance for review, approval, and issuance of a permit to construct or rehabilitate.
- (2) S4203.2 The structural design and materials used shall be in accordance with generally accepted structural engineering practices. Sand or earth shall not be permitted as an interior finish in a swimming pool.
- (3) S4203.3 In all outdoor pools, the pool shell and appurtenances, piping, filter system, pump, motor, and other components shall be so designed and constructed to facilitate protection from damage due to freezing.
- (4) S4203.4 The surfaces within the pool intended to provide footing for bathers shall be designed and constructed to provide a slip-resisting surface. The roughness or irregularity of such surfaces shall not provide an abrasion hazard to the feet during



normal use.

(5) S4203.5 The colors, patterns, or finishes of the pool interior shall not obscure the existence or presence of objects or surfaces within the pool.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-272; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-273 Materials of construction**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 273. Section S4204 Materials of construction is added as follows: S4204.1 Swimming pools and all appurtenances thereto shall be constructed of materials that:

- (1) are nontoxic to humans and the environment;
- (2) are impervious and reasonably enduring;
- (3) can withstand the stresses that the pool was designed to receive;
- (4) will provide a watertight structure with a smooth and easily cleaned surface without cracks or joints, excluding structural joints; or
- (5) a smooth, easily cleaned surface finish shall be applied to, attached to, or installed.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-273; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-274 Dimensional design**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 274. Section S4205 Design is added as follows:

- (1) S4205.2.1 No limits are specified for the shape of swimming pools except that consideration shall be given to the shape from the standpoint of safety and circulation of the swimming pool water.
- (2) S4205.2.2 There shall be no protrusions, extensions, means of entanglement, or other obstructions in the swimming area that can cause the entrapment or injury of the bather.
- (3) S4205.2.3 There shall be construction tolerances allowed on all dimensional designs. Overall length, width, and depth in the deep end may vary plus or minus three (3) inches. All other overall dimensions may vary plus or minus two (2) inches unless otherwise specified.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-274; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-275 Walls**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 275. Section S4206 Walls is added as follows: S4206.1 Walls shall not be greater than eleven (11) degrees from plumb for a minimum depth of two (2) feet nine (9) inches from the waterline in deep areas or two (2) feet three (3) inches in the shallow areas. Below these depths the wall may be curved to join the floor. An exception to this section is walls on Type 1 and special purpose pools shall be plumb as is shown in section 10(d) of this rule, Figure No. 4-5. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-275; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-276 Floor slope**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 276. Section S4207 Floor slope is added as follows: S4207.1 Floor slopes shall be in compliance with the following:

- (1) All slopes shall be uniform.
- (2) The slope of the floor from the shallow end wall towards the deep end shall not exceed one (1) foot in seven (7) feet (1:7) to the point of the first slope change.
- (3) The point of the first slope change shall be:
  - (A) defined as the point at which the floor slope exceeds one (1) foot in seven (7) feet (1:7); and
  - (B) not less than six (6) feet from the shallow end wall.
- (4) The slope of the floor from the point of the first slope change to the deep end wall shall not exceed one (1) foot in three (3) feet (1:3).

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-276; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-277 Water depth**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 277. Section S4208 Water depth is added as follows:

- (1) S4208.1 Water depths at the shallow end of the swimming area shall be two (2) feet nine (9) inches minimum and three (3) feet six (6) inches maximum, except for special purpose pools.
- (2) S4208.2 No minimum water depth shall be specified in a nonswimming area. The nonswimming area shall be visually set apart.
- (3) S4208.3 Pools of the type where manufactured diving equipment is permitted shall have the area and depth of water in compliance with the drawings for Type I through Type V pools.
- (4) S4208.4 Where manufactured diving equipment is installed, it shall:
  - (A) conform to the specifications set forth in section 15 of this rule; and
  - (B) be so located in the diving area of the pool so as to provide the minimum dimensions for area and depth of water as shown on drawings of Type I through Type V pools.
- (5) S4208.5 The tip of the manufactured diving equipment shall be located at point "A", which is the reference point for all other dimensions.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-277; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-278 Minimum vertical clearances**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 278. Section S4209 Minimum vertical clearances is added as follows: S4209.1 Minimum unobstructed headroom from the top of the manufactured diving equipment shall be provided for diving in accordance with the following table unless greater dimensions are called for by the manufacturer:

Pool Type	Minimum Headroom Above Board
I	12 feet
II	12 feet
III	12 feet

ONE AND TWO FAMILY DWELLING CODE

IV

13 feet

V

14 feet

(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-278; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)

**675 IAC 14-4.3-279 Pool types**

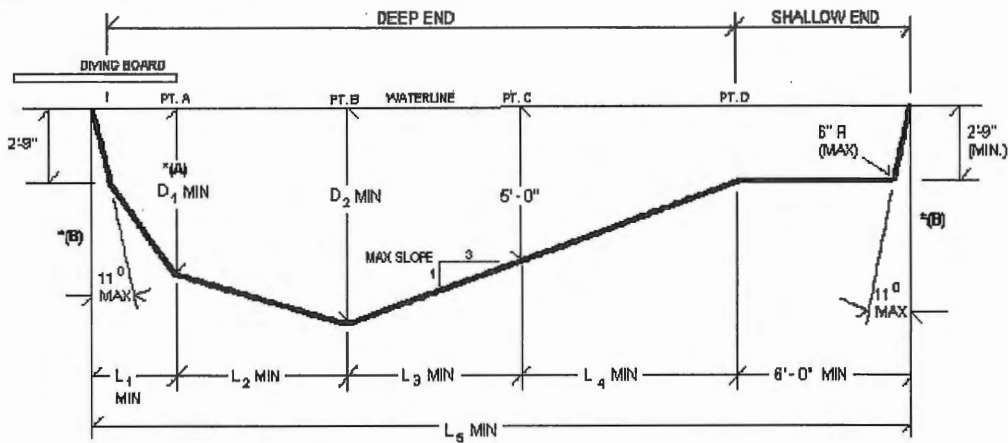
Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 279. Section S4210 Pool types is added as follows:

(1) S4210.1 Residential pools shall be further classified into types as an indication of the suitability of a pool for use with diving equipment as shown in subdivision (2), Figure No. 4-1. Diving equipment classified at a higher type shall not be used on a pool of a lesser type.

(2) S4210.2 This subdivision contains Figure No. 4-1, a reference chart of minimum dimensions for residential pools with manufactured diving equipment.



\*(A) Minimum depth under diving board or jump board.

\*(B) Type 1 pools shall have plumb walls as shown in 4306.4 of this rule, Figure No. 4.5.

**Figure No. 4-1**  
**Longitudinal Cross-section at Centerline**

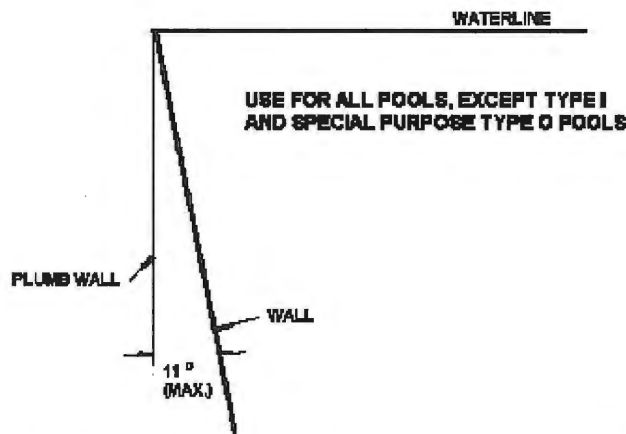
POOL TYPE	MINIMUM DIMENSIONS					MINIMUM WIDTH OF POOL				
	D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	PT. A	PT. B	PT. C
0	*	*	*	*	*	*	*	*	*	*
I	6'-0"	7'-6"	1'-6"	7'-0"	7'-6"	6'-9"	28'-9"	10'-0"	12'-0"	10'-0"
II	6'-0"	7'-6"	1'-6"	7'-0"	7'-6"	6'-9"	28'-9"	12'-0"	15'-0"	12'-0"
III	6'-10"	8'-0"	2'-0"	7'-6"	9'-0"	6'-9"	31'-3"	12'-0"	15'-0"	12'-0"
IV	7'-8"	8'-6"	2'-6"	8'-0"	10'-6"	6'-9"	33'-9"	15'-0"	18'-0"	15'-0"
V	8'-6"	9'-0"	3'-0"	9'-0"	12'-0"	6'-9"	36'-9"	15'-0"	18'-0"	15'-0"

\* Diving equipment is prohibited.

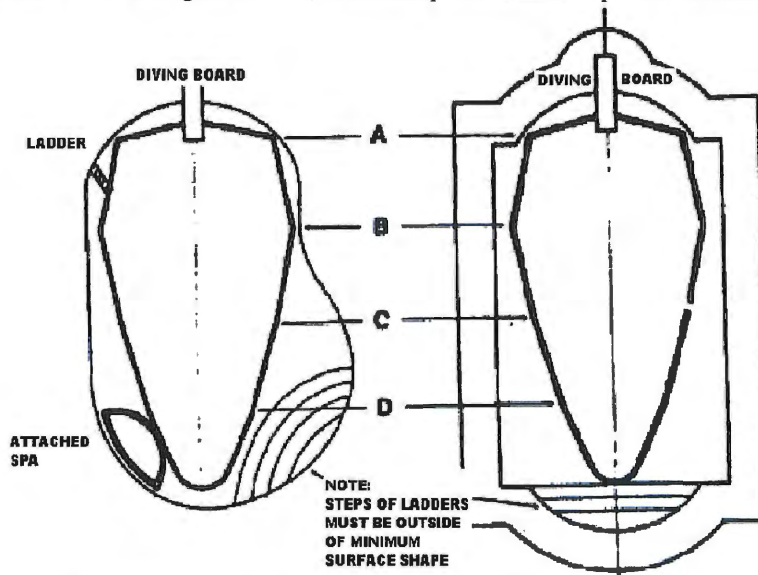


- (3) S4210.3 The minimum allowable underwater cross sections at B, C, and D shall be as shown on drawings of Type I through Type V pools (section 4308.4 through 4308.5 of this rule, Figures No. 4-5 through 4-6).
- (4) S4210.4 Constant depth and other swimming pools on which diving equipment is prohibited (Type O) with water depths not exceeding four (4) feet shall not be limited in width, length, or depth of water except as provided in sections 4 and 5 of this rule.
- (5) S4210.5. Stationary diving platforms built on-site shall be located in the diving area of the pool so as to provide the minimum dimension as shown in Figure No. 4-1, at a maximum height of three (3) feet above the waterline. Point "A" shall be eighteen (18) inches in front of the wall at the platform center line. Stationary diving platforms shall not extend more than eighteen (18) inches horizontally over the water from the wall.
- (6) S4210.6 This section contains Figure No. 4-2, a maximum allowable wall slope.

**Figure 4-2**  
**Maximum Allowable Wall Slope**

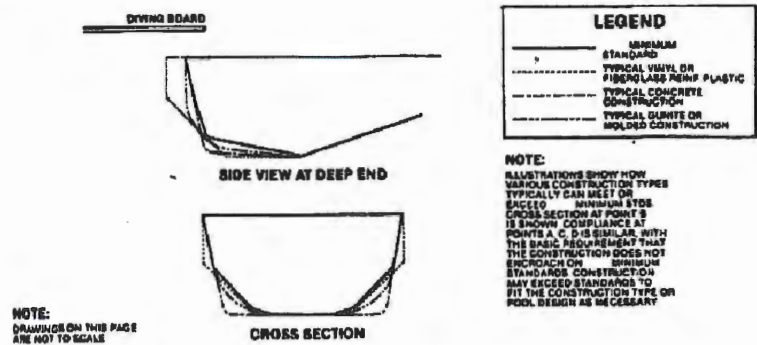


- (7) S4210.7 This section contains Figure No. 4-3, relationship of minimum top view dimensions to steps or stairs.



- (8) S4210.8 This section contains Figure No. 4-4, relationship of vinyl, fiberglass, gunite, and concrete construction to

minimum requirements.



(9) S4210.9 This section contains Figure No. 4-5, minimum dimensions for a Type I pool.

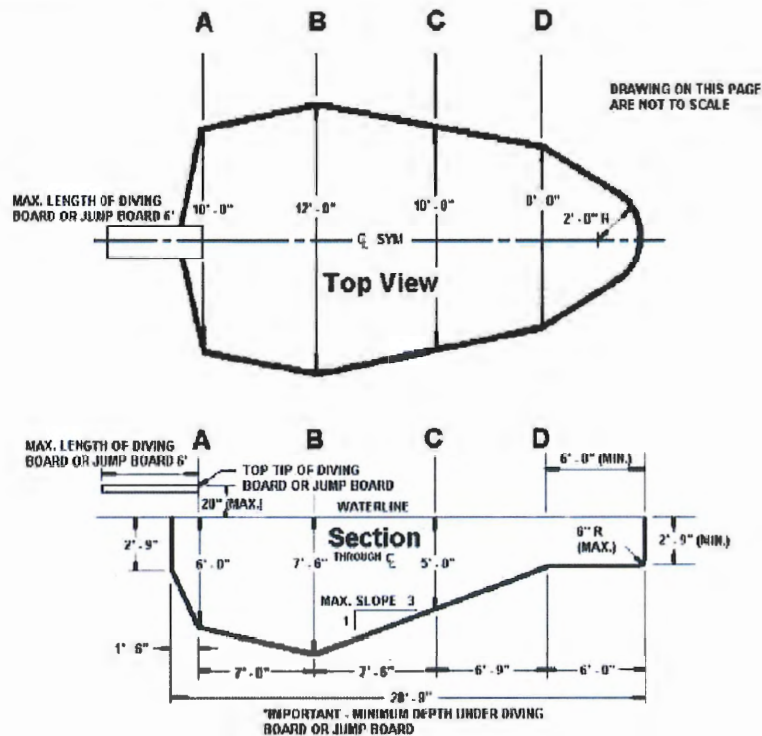
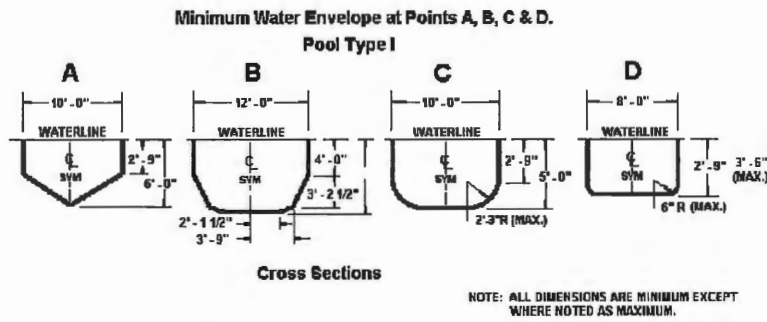
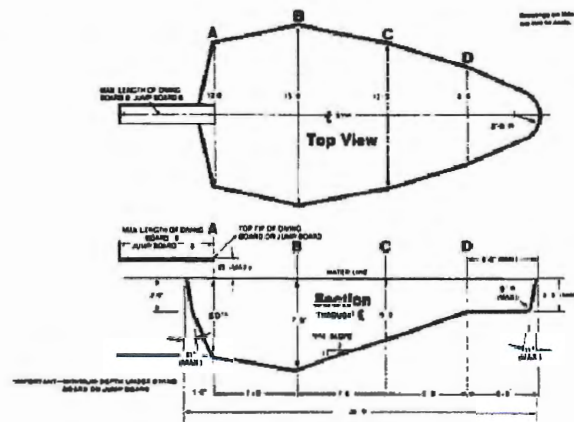


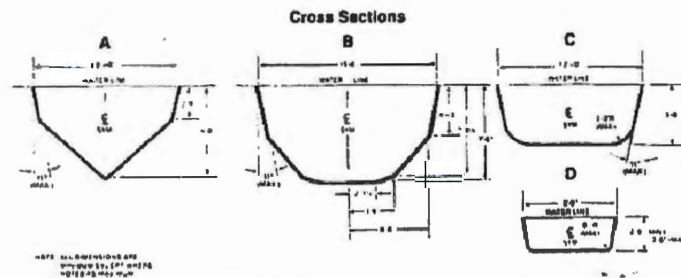
Figure 4 5  
Minimal Dimensions - Type I Pool



(10) S4210.10 This section contains Figure No. 4-6, minimum dimensions for a Type II pool.

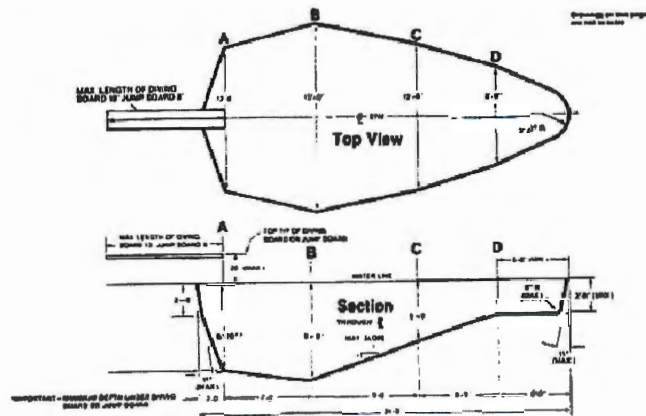


**Minimum Water Envelope at Points A, B, C & D.**  
**Pool Type II**



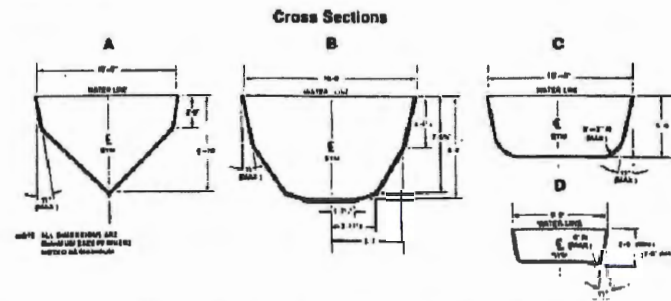
(11) S4210.11 This section contains Figure No. 4-7, minimum dimensions for a Type III pool.





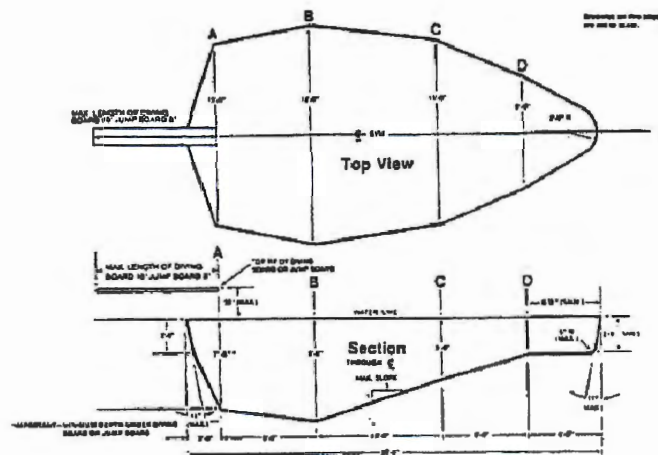
Minimum Water Envelope at Points A, B, C & D.

Pool Type III



(12) S4210.12 This section contains Figure No. 4-8, minimum dimensions for a Type IV pool.

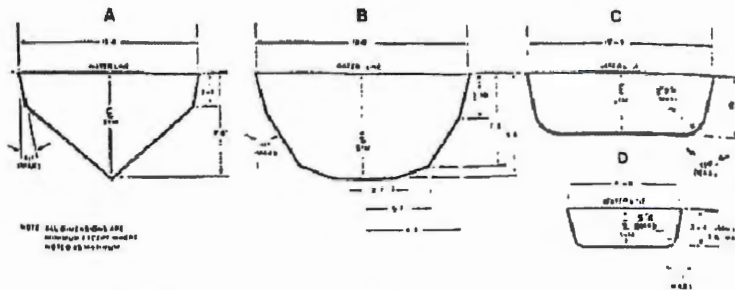
## Indiana Administrative Code



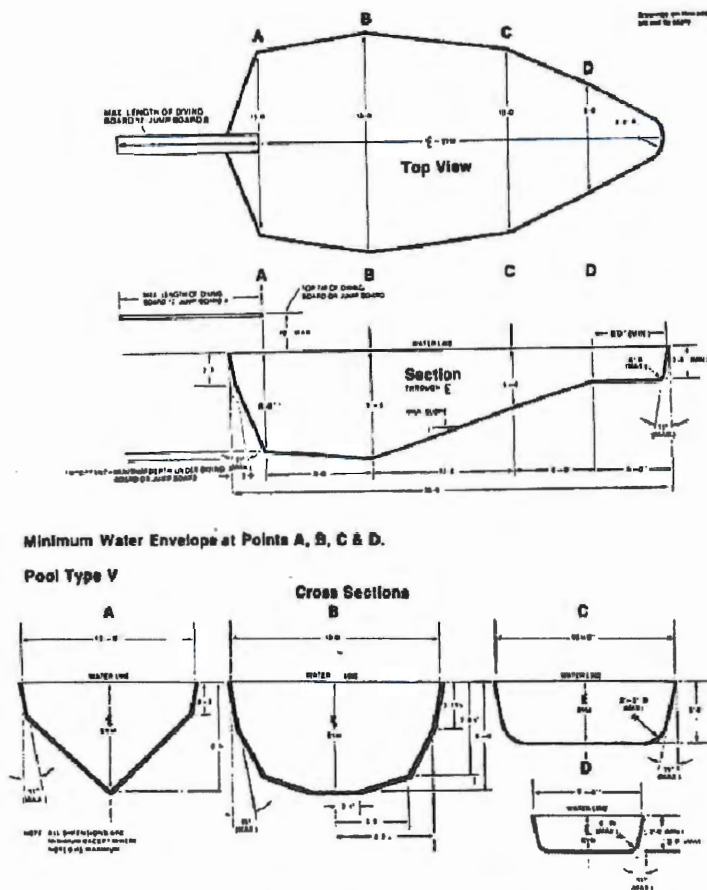
**Minimum Water Envelope at Points A, B, C & D.**

### Pool Type IV

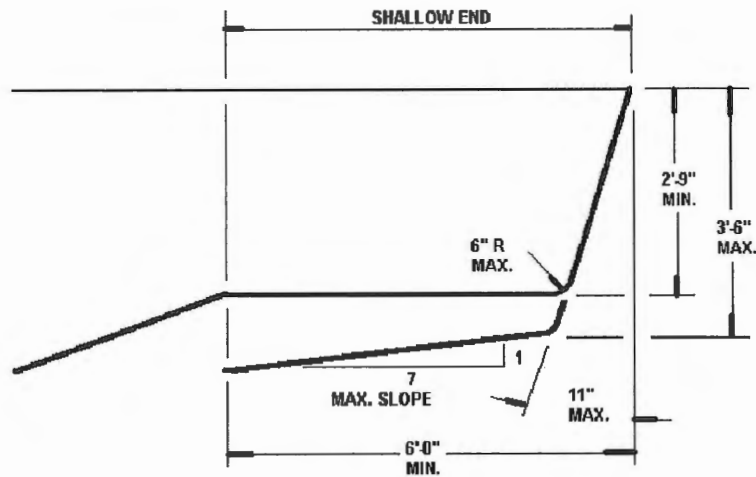
### Cross Sections.



(13) S4210.13 This section contains Figure No. 4-9, minimum dimensions for a Type V pool.



(14) S4210.14 This section contains Figure No. 4-10, shallow end detail for pool Types II through V.



**Figure 4-10**  
**Shallow End Detail**

(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-279; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)

**675 IAC 14-4.3-280 Offset ledges and underwater seat benches**

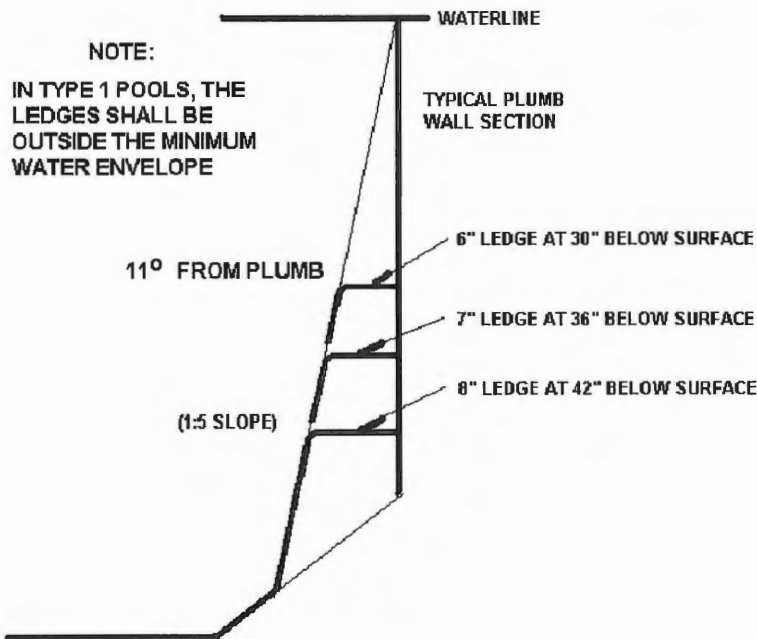
Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 280. Section S4211 Offset ledges and underwater seat benches is added as follows:

(1) S4211.1 Offset ledges, when provided, shall fall within eleven (11) degrees from plumb starting at the junction of the pool wall and waterline and shall have a slip-resisting surface. Maximum width shall be eight (8) inches. The typical allowable dimensions are based on the depths shown as follows:





(2) S4211.2 Underwater seat benches, where provided, shall:

- (A) have a maximum horizontal seat bench depth of twenty (20) inches below the waterline;
- (B) be visually set apart;
- (C) have a slip-resisting surface; and
- (D) be located fully outside of the required minimum diving water envelope if the pool is designed for use with manufactured diving equipment.

Underwater seat benches shall be permitted in the deep end of the pool only if they are either completely recessed, shaped to be compatible with the slope of the pool wall, or in a corner of the pool.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-280; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-281 Decks and deck equipment**

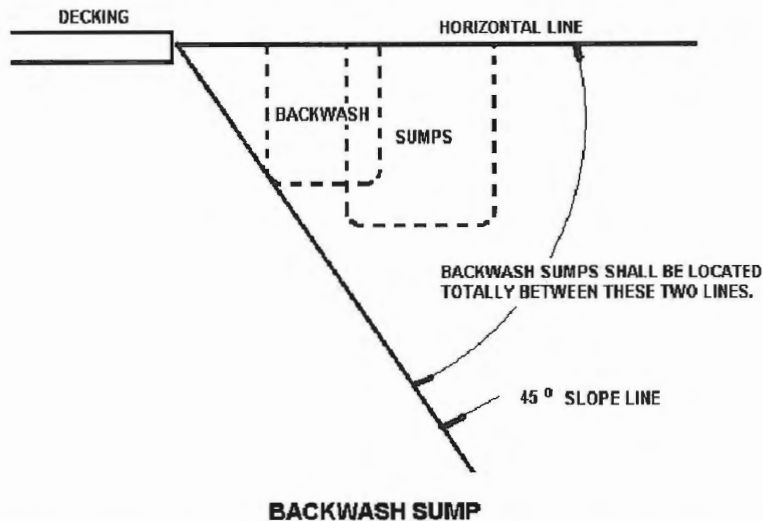
Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 281. Section S4212 Decks and deck equipment is added as follows:

- (1) S4212.1 Deck work shall be designed and installed so as to include the quality of subbase, concrete mix design, reinforcing, joints, and finishes. Work performed in accordance with the recommended practices of the American Concrete Institute (ACI) Standard 302.1R-80, "Guide for Concrete Floor and Slab Construction", may be deemed acceptable.
- (2) S4212.2 Decks, ramps, coping, and similar step surfaces shall be slip-resisting and easily cleanable.
- (3) S4212.3 Special features in or on decks such as markers, brand insignias, or similar features shall conform to this section.
- (4) S4212.4 Steps outside the pool perimeter shall be in accordance with 675 IAC 14, the Indiana One and Two Family Dwelling Code.
- (5) S4212.5 Excavation areas shall be adequately compacted when they support the deck or decks.
- (6) S4212.6 Decks shall be sloped to effectively drain either to perimeter areas or to deck drains. Drainage shall remove pool splash water, deck cleaning water, and rainwater without leaving standing water.
- (7) S4212.7 The minimum slope of decks shall be:

- (A) one-eighth (1/8) inch per one (1) foot (1/8:12) for textured, hand-finished concrete decks;
  - (B) one-fourth (1/4) inch per one (1) foot (1/4:12) for exposed aggregate concrete decks; and
  - (C) one-half (1/2) inch per one (1) foot (1/2:12) for indoor/outdoor carpeting decks.
- (8) S4212.8 The maximum slope for all decks other than wood decks shall be one (1) inch per foot except for ramps. The maximum slope for wood decks shall be one-eighth (1/8) inch per foot except for ramps. Expansion gaps shall be based on good engineering practices with respect to the type of wood used.
- (9) S4212.9 The maximum voids between adjoining concrete slabs and/or between concrete slabs and expansion joint material shall be three-sixteenths (3/16) inch of horizontal clearance with a maximum difference in vertical elevation of one-fourth (1/4) inch.
- (10) S4212.10 Construction joints where pool coping meets concrete decks shall be watertight and shall not allow water to pass to the ground beneath.
- (11) S4212.11 The areas where the decks join pool coping shall be designed and installed so as to protect the coping and its mortar bed from damage as a result of reasonable movement of adjoining decks.
- (12) S4212.12 Joints in decks shall be provided to minimize the potential for cracks due to a change in elevations, separation of surfaces, or movement of the slab.
- (13) S4212.13 The areas where decks join concrete work shall be protected by expansion joints to protect the pool adequately from the pressures of relative movements.
- (14) S4212.14 Decks shall be edged, have a radius, or be otherwise relieved to eliminate sharp corners.
- (15) S4212.15 Site drainage shall be provided so as to direct all perimeter deck drainage as well as general site and roof drainage away from the pool.
- (16) S4212.16 If used, an open pit or leaching design for backwash sump purposes shall be located so that it falls completely below adjacent decks and fully outside a line projected forty-five (45) degrees downward and away from such decks as shown below.



*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-281; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-282 Circulation piping**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 282. Section S4213 Circulation piping is added as follows:

(1) S4213.1 Circulation system piping, other than that integrally included in the manufacture of the pool, shall be subject to an induced static hydraulic pressure test (sealed system) at twenty-five (25) pounds per square inch for thirty (30) minutes. This test shall be performed before the deck is poured, and the pressure shall be maintained through the deck pour.

(2) S4213.2 Valves installed in or under any decks shall provide a minimum ten (10) inches diameter access cover and valve pit to facilitate servicing.

(3) S4213.3 A hose bibb with a vacuum breaker shall be provided for washing down the entire deck area.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-282; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-283 Pool egress**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 283. Section S4214 Pool egress is added as follows:

(1) S4214.1 All pools shall have a means of entry/exit in the shallow end consisting of one (1) ladder, stairs, or recessed treads. Where two (2) or more entries/exits are used, the ladders, stairs, or recessed treads may be used in combination. All treads shall have slip-resisting surfaces.

(2) S4214.2 Where water depths are twenty-four (24) inches or less at the pool wall, the areas shall be considered as providing their own natural mode for entry/exit.

(3) S4214.3 For pools over thirty (30) feet in width, both sides of the deep portions of the pool shall have entries/exits provided.

(4) S4214.4 A means of entry/exit for the shallow end shall be located between the shallow end wall and the cross section at point "D". Where required, entry/exit for the deep end shall be between the deep end wall and the cross section at point "B". (Refer to section 9(b) of this rule, Figure No. 4-1.)

(5) S4214.5 Ladders, stairs, recessed treads, or underwater seat benches shall be provided at the deep end of the pool if the water depth is over five (5) feet.

(6) S4214.6 The design and construction of protruding and recessed pool stairs shall conform to the following:

(A) Step treads shall have a minimum unobstructed horizontal depth of ten (10) inches and a minimum unobstructed surface area of two hundred forty (240) square inches.

(B) Risers at the center line of the treads shall have a maximum uniform height of twelve (12) inches with the bottom riser height allowed to vary plus or minus two (2) inches from the uniform riser height.

(C) The vertical distance between the pool coping edge, deck, or step surface, which shall be slip-resisting, and the uppermost step tread shall be a maximum of twelve (12) inches.

(7) S4214.7 If handrails are used with stairs, they shall conform to the following:

(A) Handrails, if removable, shall be installed in such a way that they cannot be removed without the use of tools.

(B) The leading edge of handrails facilitating stairs and pool entry/exit shall be not more than eighteen (18) inches plus or minus three (3) inches horizontally from the vertical plane of the bottom riser, where applicable.

(C) The outside diameter of handrails shall be between one (1) inch and two (2) inches.

(8) S4214.8 Underwater seats or benches may be provided as part of the stairs or recessed treads.

(9) S4214.9 The design and construction of pool ladders shall conform to the following:

(A) Pool ladders shall be made entirely of corrosion-resisting materials.

(B) Ladders shall provide two (2) handholds or two (2) handrails.

(C) Below the water level, there shall be a clearance of not more than six (6) nor less than three (3) inches between any ladder tread edge measured from the pool wall side of the tread and the pool wall.

(D) The clear distance between ladder handrails shall be a minimum of seventeen (17) inches and a maximum of twenty-four (24) inches.

(E) There shall be a uniform height between ladder treads with a seven (7) inch minimum distance and a twelve (12)

inch maximum distance.

(F) Ladder treads shall have a minimum horizontal depth of one and one-half (1 1/2) inches.

(G) The vertical distance between the top tread and the pool coping or deck shall be a maximum of twelve (12) inches.

(10) S4214.10 The design and construction of recessed treads in the pool wall shall conform to the following:

(A) Recessed treads at the center line shall have a uniform vertical spacing of twelve (12) inches maximum and seven (7) inches minimum.

(B) The vertical distance between the pool coping edge, deck, or step surface and the uppermost recessed tread shall be a maximum of twelve (12) inches.

(C) Recessed treads shall have a minimum depth of five (5) inches and a minimum width of twelve (12) inches.

(D) Recessed treads shall drain into the pool to prevent accumulation of dirt.

(E) Each set of recessed treads shall be provided with a pair of handrails/grab rails/handholds to serve all treads and risers.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-283; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

#### **675 IAC 14-4.3-284 Diving equipment**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 284. Section S4215 Diving equipment is added as follows:

(1) S4215.1 Supports, platforms, stairs, and ladders for manufactured diving equipment shall be designed to carry the anticipated loads. Stairs and ladders shall be of corrosion-resisting material, easily cleanable, and with slip-resisting tread. All manufactured diving stands higher than twenty-one (21) inches measured from the deck to the top butt end of the board shall be provided with stairs or a ladder, or both. Step treads shall be self-draining.

(2) S4215.2 Platforms and manufactured diving equipment of one (1) meter or higher shall be protected with guard rails, which shall be at least thirty (30) inches above the diving board and extend to the edge of the pool wall.

(3) S4215.3 Manufactured diving equipment shall be:

(A) designed for swimming pool use; and

(B) installed in accordance with the manufacturer's recommendations provided with the equipment.

(4) S4215.4 A label shall be permanently affixed to the manufactured diving equipment or jump board and shall include not less than:

(A) manufacturer's name and address;

(B) board equipment length;

(C) identification as to diving or jump board;

(D) fulcrum setting specifications, if applicable;

(E) date of manufacture; and

(F) reference to manufacturer's safety standard, if any, that the board will meet.

(5) S4215.5 Manufactured diving equipment suitable for installation on a lower pool type may be installed on any higher pool type providing no less a water envelope is provided from the tip of the board than called for in the lower type. Manufactured diving equipment of a greater type, for example, Type III, shall not be installed on a pool of lesser type, for example, Type II. In addition, the following provisions apply:

(A) Manufactured diving equipment shall have slip-resisting tread surfaces.

(B) Manufactured diving equipment shall be permanently anchored to the pool deck. The edge of the board at the tip end shall be level with the water surface. The tip end of the board over the pool water surface may be higher than the butt end of the board. Refer to manufacturer's recommendations.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-284; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-285 Swimming pool slides**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 285. Section S4216 Swimming pool slides is added as follows:

(1) S4216.1 Swimming pool slides shall meet the requirements of 16 CFR 1207, Safety Standard for Swimming Pool Slides, as published by the U.S. Consumer Product Safety Commission, 4330 East-West Highway, Bethesda, Maryland 20814. Slides, where provided for use with swimming pools, shall have a permanent label or separate certificate indicating conformance with the rules of the Consumer Product Safety Commission issued as 16 CFR 1207.

(2) S4216.2 Swimming pool slides in residential swimming pools shall terminate such that the following applies:

(A) The end of the slide is not more than twelve (12) inches above the pool deck.

(B) The depth of the water at the end of the slide meets the manufacturer's recommendations or thirty-six (36) inches, whichever is greater.

(C) The distance from the end of the slide is not less than twenty (20) feet measured along the axis of travel.

(D) The depth of water described in clause (B) or a gradually increasing depth shall be maintained for not less than ten (10) feet beyond the end of the slide. This depth of water may gradually decrease beyond that point to a minimum water depth of twenty-four (24) inches. For this requirement a maximum slope of one (1) in seven (7) (1:7) shall be considered "gradual".

(3) S4216.3 Swimming pool slides shall be installed in accordance with the manufacturer's installation instructions and specifications.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-285; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-286 Circulation system**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 286. Section S4217 Circulation system is added as follows:

(1) S4217.1 A circulation system consisting of pumps, piping, return inlets and suction outlets, filters, and other necessary equipment shall be provided for complete circulation of water through all parts of the pool. This circulation system shall be capable of maintaining water clarity and chemistry requirements.

(2) S4217.2 The equipment shall be of adequate size to turn over the entire pool water capacity at least once every twelve (12) hours. Water clarity shall be maintained. When standing at the pool's edge at the deep end, the deepest portion of the pool floor shall be visible.

(3) S4217.3 Circulation system components that require replacement or servicing shall be:

(A) accessible for inspection, repair, or replacement; and

(B) installed according to the manufacturer's instructions.

(4) S4217.4 Pool equipment shall be:

(A) properly supported to prevent damage from misalignment, settlement, etc.; and

(B) mounted so as to minimize the potential for the accumulation of debris and moisture following manufacturer's instructions.

(5) S4217.5 The water velocity in the pool piping shall not exceed ten (10) feet per second for discharge piping and eight (8) feet per second for suction piping, unless summary calculations are provided to show that the greater flow is possible with the pump and piping provided. In copper pipes, the velocity shall not exceed eight (8) feet per second for suction and discharge piping. Pool piping shall be sized to permit the rated flows for filtering.

(6) S4217.6 The circulation system piping and fittings shall be:

(A) nontoxic;

(B) considered to be process piping; and



(C) of material able to withstand operating pressures and operating conditions.

(7) S4217.7 Equipment shall be designed and fabricated to drain the pool water from the equipment, together with exposed face piping, by removal of drain plugs and manipulating valves, or by other methods. Refer to manufacturer's recommendations for specific information on draining the system.

(8) S4217.8 A pressure or vacuum gauge or other means of indicating system condition shall be provided in the circulation system in an easily readable location.

(9) S4217.9 Time clocks may be used to set the operating period of the circulation system. When time clocks are used, they shall also govern the operating time of appurtenant devices such as chemical/disinfectant feeders, slurry feeders, heaters, etc., that are dependent upon circulation pump flow.

(10) S4217.10 Written operation and maintenance instructions shall be provided for the circulation system.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-286; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

#### **675 IAC 14-4.3-287 Filters**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 287. Section S4218 Filters is added as follows:

(1) S4218.1 Filters shall be designed so that after cleaning per manufacturer's instructions the system can provide the water clarity noted in section S4217.1 of this rule.

(2) S4218.2 Filters shall be designed so that filtration surfaces can be inspected and serviced.

(3) S4218.3 On pressure-type filters, a means shall be provided to permit the release of internal pressure.

(4) S4218.4 Any filter incorporating an automatic internal air release as its principal means of air release shall have lids which provide a slow and safe release of pressure as a part of its design.

(5) S4218.5 Any separation tank used in conjunction with any filter tank shall have a manual means of air release or a lid that provides a slow and safe release of pressure as it is opened as a part of its design.

(6) S4218.6 Pressure filters and separation tanks shall:

(A) have operation and maintenance instructions permanently installed on the filter or separation tank; and

(B) include a precautionary statement warning not to start up the system after maintenance without first opening the air release and proper reassembly of the filter and separation tank.

The statement shall be visible and noticeable within the area of the air release.

(7) S4218.7 Piping furnished with the filter shall be of suitable material capable of withstanding one and one-half (1 1/2) times the working pressure. The suction piping shall not collapse when there is a complete shutoff of flow on the suction side of the pump.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-287; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

#### **675 IAC 14-4.3-288 Pumps**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 288. Section S4219 Pumps is added as follows:

(1) S4219.1 A pump and motor shall be provided for circulation of the pool water. Performance of all pumps shall meet or exceed the conditions of flow required for filtering, cleaning, if applicable, and the filters against the total dynamic head developed by the complete system.

(2) S4219.2 With all pressure filter systems a cleanable strainer or screen shall be provided upstream of the circulation pumps to remove solids, debris, hair, lint, etc.

- (3) S4219.3 Pumps and motors shall be accessible for inspection and service.
- (4) S4219.4 The design and construction of the pumps and component parts shall provide safe operation that is not hazardous to the operator or maintenance personnel.
- (5) S4219.5 Where a mechanical pump seal is provided, components of the seal shall be corrosion-resisting and capable of operating under conditions normally encountered in pool operation.
- (6) S4219.6 Proper direction of rotation for the pump shall be clearly indicated on the pump.
- (7) S4219.7 All motors shall:
  - (A) have as a minimum an open drip-proof enclosure; and
  - (B) be constructed electrically and mechanically to perform satisfactorily and safely under the conditions of load and environment normally encountered in swimming pool installations.
- (8) S4219.8 Motors shall be capable of operating the pumps under full load with a voltage variation of plus or minus ten percent (10%) from the nameplate rating. If the maximum service factor of the motor is exceeded (at full voltage), the manufacturer shall indicate this on the pump curve.
- (9) S4219.9 All motors shall have thermal or current overload protection, either built-in or in the line starter, to provide locked rotor and running protection.
- (10) S4219.10 Where the pump is below the waterline, valves shall be installed on permanently connected suction and discharge lines, located in an accessible place outside the walls of the pool, where they shall be readily and easily accessible for maintenance and removal of the pump.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-288; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-289 Return inlets and suction outlets**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 289. Section S4220 Return inlets and suction outlets is added as follows:

- (1) S4220.1 Return inlets and suction outlets shall be provided and arranged to produce a uniform circulation of water and maintain a uniform disinfectant residual throughout the entire pool. Where skimmers are used, the return inlets shall be located so as to help bring floating particles within range of the skimmers.
- (2) S4220.2 The number of return inlets shall be based on a minimum of one (1) return inlet per six hundred (600) square feet of pool surface area, or fraction thereof. Return inlet fittings shall be installed of sufficient pipe size or quantity to allow a full design turnover rate of the circulation system in accordance with the manufacturer's recommendations for return inlets.
- (3) S4220.3 Return inlets from the circulation system shall be designed so as not to constitute a hazard to the bather.
- (4) S4220.4 The pool shall not be operated if the suction outlet grate is missing, broken, or secured in such a way that it can be removed without the use of tools.
- (5) S4220.5 If the suction outlet system, such as a filtration system, booster system, automatic cleaning system, solar system, etc., has a single suction outlet, or multiple suction outlets that can be isolated by valves, each suction outlet shall protect against bather entrapment by:
  - (A) an antivortex cover;
  - (B) a twelve (12) inch by twelve (12) inch (12 × 12) grate or larger; or
  - (C) other means acceptable to the local authority.

- (6) S4220.6 Where provided, the vacuum cleaner fittings shall be located in accessible positions at least six (6) inches and not greater than eighteen (18) inches below the minimum operating water level or as an attachment to the skimmers.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-289; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-290 Surface skimmer systems**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 290. Section S4220 Surface skimmer systems is added as follows:

(1) S4220.1 A surface skimming system shall be:

(A) provided on all residential swimming pools; and

(B) designed and constructed to skim the pool surface when the water level is maintained within the operational parameters of the system's rim or weir device.

(2) S4220.2 Skimming devices shall be designed and installed so as not to constitute a hazard to the bather.

(3) S4220.3 Where automatic surface skimmers are used as the sole overflow system, at least one (1) surface skimmer shall be provided for each eight hundred (800) square feet or fraction thereof of the water surface area. Nominal recessed areas such as stairs, spas, etc., shall not be considered in the calculation. Where skimmers are used, they shall be located to maintain effective skimming action over the entire surface of the pool.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-290; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-291 Electrical requirements**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 291. Section E4221 Electrical requirements is added as follows: E4221.1 The requirements of 675 IAC 17, the Indiana Electrical Code, shall be followed in the installation of all electrical equipment wiring or appliances in the pool area or vicinity of the pool's circulation system. *(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-291; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

**675 IAC 14-4.3-292 Heaters**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 292. Section E4222 Heaters is added as follows:

(1) E4222.1 Swimming pool heaters shall be of an "approved" type.

(2) E4222.2 Heaters shall be properly sized.

(3) E4222.3 The heaters shall be installed according to the manufacturer's recommendations, but not less than the following:

(A) The heater shall be installed on a concrete (or equivalent) base unless it is specifically designed for installation on a combustible surface.

(B) When installing the heater, adequate clearances shall be maintained on all sides and over the top of the unit. Consult manufacturer's instructions for proper clearances.

(C) In order to assure proper combustion, the heater shall have adequate ventilation installed as follows:

(i) When installing a heater indoors, proper openings to the room are required. The heater shall be installed in accordance with 675 IAC 18, the Indiana Mechanical Code, and the manufacturer's recommendations for properly sized air openings to the enclosure.

(ii) All fossil fuel heaters shall be supplied with some type of venting system for either indoor or outdoor installation. These draft or venting devices shall be installed according to the manufacturer's recommendations and shall not be modified.

(iii) When installing a heater that will be using propane gas, special precautions shall be noted. Propane gas is heavier than air and, therefore, can create special problems when the heater is installed in a pit or in an

enclosed area. Whenever installing a heater with propane gas, the manufacturer's ventilation recommendations shall be followed.

(4) E4222.4 The heater gas supply and pipe sizing shall:

(A) be adequate; and

(B) comply with manufacturer's recommendations.

When installing a gas-fired heater, the gas line shall be run from the gas meter as directly as practical.

(5) E4222.5 The heater circulation system shall comply with the manufacturer's recommendations. Precautions shall be taken to avoid siphonage of hot water into the pump or filter. When manufacturers recommend metal pipe, that is, copper, heat sinks, they shall be installed vertically connected to the heater to prevent heat damage to plastic circulation pipe. Heater piping shall be designed to avoid excessive friction losses through the pipe or bypass valves, or both, required. When installing bypass valves, caution shall be taken to ensure adequate flow through the heater at all times.

(6) E4222.6 The water piping system shall be installed according to the manufacturer's recommendations. When manufacturers recommend precautions to eliminate siphonage so that the heater does not destroy the filter or any plastic pipe that is being used, the manufacturer's recommendations shall be followed. NOTE: When installing a heater and a filter system, adequate provisions shall be made so that the heater does not cause excessive pressure drop to the filter system. Refer to manufacturer's requirements or recommendations, or both, for installation of bypass valves. Excessive flow that causes pressure drop can be eliminated by the installation of an external or an automatic bypass valve. When installing a bypass valve, caution shall be noted so that there is always adequate flow through the heater.

(7) E4222.7 A time clock is recommended, and when used it shall be set long enough to properly filter the water and allow enough time for proper heating of the pool. It is recommended that a dual time clock or fireman's switch be used in conjunction with the heater to shut the heater off approximately one-half (1/2) hour before the filter system shuts down.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-292; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

#### **675 IAC 14-4.3-293 Water supply**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 293. Section S4223 Water supply is added as follows:

(1) S4223.1 The water supply serving the pool, which may come from a variety of sources, shall meet 327 IAC, the rules of the water pollution control board, before the bather uses the pool.

(2) S4223.2 No direct mechanical connection shall be made between the potable water supply and the swimming pool, chlorinating equipment, or the system of piping for the pool unless it is protected against backflow and siphonage in a manner approved by 675 IAC 16, the Indiana Plumbing Code, or through an air gap meeting that same code.

(3) S4223.3 An over-the-rim spout, if used, shall be located under a diving board, adjacent to a ladder, or otherwise properly shielded so as not to create a hazard. Its open end shall:

(A) have no sharp edges; and

(B) not protrude more than two (2) inches beyond the edge of the pool.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-293; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

#### **675 IAC 14-4.3-294 Wastewater disposal**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 294. Section S4224 Wastewater disposal is added as follows: S4224.1 Backwash water shall be discharged into a sanitary sewer through an approved air gap or into an approved subsurface disposal system or by other means in accordance with

675 IAC 16, the Indiana Plumbing Code, and 327 IAC, the rules of the water pollution control board. (*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-294; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA*)

**675 IAC 14-4.3-295 Disinfectant; oxidation; chemical feeder equipment**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 295. Section S4225 Disinfectant; oxidation; chemical feeder equipment is added as follows:

(1) S4225.1 Disinfectant equipment, oxidation equipment, and chemical feeders, hereafter referred to jointly as "equipment", shall be capable of precisely introducing a sufficient quantity of an approved disinfecting agent or other chemical to maintain one (1) milligram per liter of free chlorine residual.

(2) S4225.2 Manufacturer's instructions shall be used in installing chemical feeders. The installation and use of chemical feeders shall conform to the following:

(A) Where using chemical feeders, it is extremely important that they be installed downstream from the filter and heater. An exception is equipment specifically labeled for feeding to the suction side of the pump.

(B) If the chemical feeder is equipped with its own pump, it shall be installed so it introduces the gas or solution downstream from the heater and, if possible, at a position lower than the heater outlet fitting.

(C) Chemical feed pumps shall be wired so they cannot operate unless the filter pump is running. If the chlorinator has an independent timer, the filter and chemical feed pump timers shall be interlocked.

(D) A check valve shall be installed in the piping between the heater and the point of chemical feed.

(3) S4225.3 The installation of ozone generating equipment shall be limited to low ozone output generating equipment. The installation and use of ozone generating equipment shall conform to the following:

(A) Installation of ozone generating equipment shall allow for indications of operation or malfunction to be easily observed. The equipment shall be installed in a manner such that a malfunction will not endanger operators or pool users.

(B) Ozone generating equipment shall be used in conjunction with other chemical treatments to meet the chemical operating parameters in this section. Normal maintenance and monitoring of water chemistry shall be followed.

(C) If the equipment is capable of exposing maintenance or service personnel to ozone concentrations exceeding five hundred (500) parts per million, a self-contained breathing apparatus approved for ozone usage shall be provided. If a distinct, pungent odor is smelled when the ozone generating equipment is operating, the equipment shall be shut down, and the area shall be ventilated. The equipment shall be inspected and repaired as necessary by qualified service personnel.

(D) Manufacturer's recommendations shall be used to determine where and how ozone shall be injected.

(*Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-295; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA*)

**675 IAC 14-4.3-296 Safety features**

Authority: IC 22-13-2-2

Affected: IC 22-12-1-5; IC 22-13-2-7; IC 22-13-2-11; IC 22-15; IC 36-7

Sec. 296. Section S4226 Safety features is added as follows:

(1) S4226.1 A residential pool shall be provided with a suitable handhold around its perimeter in areas where depths exceed three (3) feet six (6) inches. Handholds shall be provided no further apart than four (4) feet and shall consist of any one (1) or a combination of items listed as follows:

(A) Coping, ledge, or deck along the immediate top edge of the pool that provides a slip-resisting surface of at least four (4) inches minimum horizontal width and located at or not more than twelve (12) inches above the waterline.

(B) Ladders, stairs, or seat ledges.



ONE AND TWO FAMILY DWELLING CODE

- (C) A secured rope or railing placed at or not more than twelve (12) inches above the waterline.
- (2) S4226.2 Rope anchor devices shall be installed at a minimum of one (1) foot and a maximum of two (2) feet on the shallow end side of a point of change in floor slope. In pools where the slope change occurs in water depths less than four (4) feet six (6) inches, a transition rope supported by buoys shall be installed.
- (3) S4226.3 Access to residential pools shall be restricted by one (1) of the following means:
- (A) Walls or fencing not less than four (4) feet high and completely surrounding the pool and deck area with the exception of self-closing and latching gates and doors, both capable of being locked.
  - (B) Other means not less than four (4) feet high and deemed impenetrable by the enforcing authority at the time of construction and completely surrounding the pool and deck area when the pool is not in use.
  - (C) A combination of clauses (A) and (B) that completely surrounds the pool and deck with the exception of self-closing and latching gates and doors which are capable of being locked. This applies to clauses (A) and (B) and this clause only.
  - (D) A power safety pool cover that:
    - (i) shall provide a continuous connection between the cover and the deck, so as to prohibit access to the pool when the cover is completely drawn over the pool;
    - (ii) shall be mechanically operated such that the cover cannot be drawn open or retracted without the use of a:
      - (AA) key; or
      - (BB) key and switch; or
      - (CC) touch pad with a personal access code;
    - (iii) is installed with track, rollers, rails, guides, or other accessories necessary to accomplish items (i) and (ii), in accordance with the manufacturer's instructions; and
    - (iv) shall bear an identification tag indicating that the cover satisfies the requirements of ASTM F 1346-<sup>91</sup>~~2003~~ (Reapproved 2003), Standards Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas, and Hot Tubs, as published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania 19428-2959 for power safety pool covers.
- (4) S4226.4 Not less than the following lifesaving equipment shall be installed with each residential swimming pool:
- (A) A ring or throwing buoy fitted with forty (40) feet of one-fourth (1/4) inch diameter line.
  - (B) A pole not less than twelve (12) feet in length.
  - (C) Access to a telephone.

*(Fire Prevention and Building Safety Commission; 675 IAC 14-4.3-296; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789FRA; readopted filed Aug 4, 2011, 8:35 a.m.: 20110831-IR-675110254RFA; readopted filed Mar 10, 2017, 9:37 a.m.: 20170405-IR-675170005RFA)*

\*



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FOR OFFICE USE ONLY		
Received	6/13/18	Code
		2018 IRC
		Proposal number
		#81

Code title		Edition
International Residential Code		2018
Section number and title		Page number
R401.3 Drainage		89
Proponent	Representing (if applicable)	
Hank Kidwell	Rick Jenkins Builders	
Address (number and street, city, state, and ZIP code)		Telephone number
		( )

## PROPOSED CODE CHANGE (check one)

- ☐ Change to read as follows    ☐ Add to read as follows    ☐ Delete and substitute as follows    ☒ Delete without substitution

Delete the 1st sentence of R401.3.

R401.3 Drainage. ~~Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection that does not create a hazard.~~

## REASON STATEMENT AND FISCAL IMPACT

Requirement from 2005 Indiana Residential Code; therefore, no fiscal impact.

This proposal was approved by the previous committee reviewing the 2015 IRC.

## REVIEW RECOMMENDATION

Approve	Motion, second, Approved as submitted.
Reject	
Approve as amended	
Further study	



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FOR OFFICE USE ONLY		
Received	6/13/18	Code 2018 IRC
		Proposal number #83

Code title International Residential Code		Edition 2018
Section number and title R403.1 General		Page number 90
Proponent Hank Kidwell	Representing (if applicable) Rick Jenkins Builders	
Address (number and street, city, state, and ZIP code)		Telephone number ( )

## PROPOSED CODE CHANGE (check one)

- ☒ Change to read as follows    ☐ Add to read as follows    ☐ Delete and substitute as follows    ☐ Delete without substitution

Delete, in the first sentence of Section R403.1, "continuous".

R403.1 General. All exterior walls shall be supported on ~~continuous~~ solid or fully grouted masonry or concrete footings, crushed stone footings, wood foundations, or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil.

## REASON STATEMENT AND FISCAL IMPACT

Requirement from 2005 Indiana Residential Code; therefore, no fiscal impact.

This proposal was submitted during the review of the 2015 IRC, and was approved as amended by the committee.

## REVIEW RECOMMENDATION

Approve	Motion, <del>As</del> Second, Approved as submitted
Reject	
Approve as amended	
Further study	



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Received	6/11/18	Code	2018 IRC
		Proposal number	#84
Code title		Edition	
Indiana Residential Code		2020	
Section number and title		Page Number	
R403. MINIMUM DEPTH (D) AND WIDTH (W) OF CRUSHED STONE FOOTINGS <sup>a, b</sup> (inches)		1 of 1, codebook page 110	
Proponent	Representing (if applicable)		
Craig Wagner	IABO		
Address (number and street, city, state, and ZIP code)		Telephone number	
220 W Van Buren St, Columbia City, IN 46725		260-248-3111	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
In the title of Table R403. And the number "4" as follows:			
<p style="text-align: center;"><b>R403.4</b>  <b>MINIMUM DEPTH (D) AND WIDTH (W) OF CRUSHED STONE FOOTINGS<sup>a, b</sup> (inches)</b></p>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal is one of the three errata listed on the ICC website.			
Fiscal impact: no fiscal impact			
REVIEW RECOMMENDATION			
Approve	Motion, second, Approved as submitted		
Reject			
Approve as amended			
Further study			





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Received	6/13/18	Code
		2018 IRC
		Proposal number
		# 89

Code title		Edition
International Residential Code		2018
Section number and title		Page number
Table R403.1.1 <del>size of footings supporting piers and columns</del>		91
Proponent	Representing (if applicable)	
Lynn Madden	Hallmark Homes	
Address (number and street, city, state, and ZIP code)		Telephone number
		( )

### PROPOSED CODE CHANGE (check one)

- ☐ Change to read as follows    ☒ Add to read as follows    ☐ Delete and substitute as follows    ☐ Delete without substitution

Add Section R403.1.1 ~~to insert~~ Table R403.1.1.2 Size of footings supporting piers and columns,

See attachment for language from 2005 Indiana Residential Code.

shall comply  
with Table  
R403.2.

### REASON STATEMENT AND FISCAL IMPACT

This language is from the 2005 Indiana Residential Code. No fiscal impact.

### REVIEW RECOMMENDATION

Approve

Reject

Approve as amended

Further study

Motion, Second, Approved as amended.



TABLE R403.2  
SIZE OF FOOTINGS SUPPORTING PIERS AND COLUMNS

Spacing of Girder "S" <sup>1</sup>	Type of Loading <sup>2</sup>			Column Size Required <sup>3</sup>		Size of Plain Concrete Footing Required <sup>3</sup>
	A	B	C	Steel	Wood	
10'	5'-6"	-	-	3" Steel Pipe <sup>4</sup>	4" x 4"	2' x 2' x 8" <sup>5</sup>
15'	4'-0"	-	-			
20'	-	-	-			
10'	8'-6"	5'-0"	-			
15'	6'-0"	4'-0"	-			
20'	4'-6"	-	-			
10'	12'-0"	9'-0"	8'-0"		6" x 6"	4' x 4' x 16" <sup>5</sup>
15'	10'-0"	8'-0"	7'-0"			
20'	8'-0"	7'-0"	6'-0"		8" x 8"	4'3" x 4'3" x 17" <sup>5</sup>
10'	16'-0"	12'-6"	11'-0"			
15'	13'-6"	10'-6"	10'-0"			
20'	12'-0"	9'-6"	8'-0"			
10'	20'-0"	16'-0"	13'-6"			
15'	17'-0"	13'-6"	11'-6"			
20'	15'-0"	12'-0"	10'-0"			

<sup>1</sup>The spacing "S" is the tributary load in the girder. It is found by adding the unsupported spans of the floor joists on each side that are supported by the girder and dividing by 2.

<sup>2</sup>Figures under type of loading columns are the allowable girder span.

Type A loading is for a girder supporting 1 floor and a roof.

Type B loading is for a girder supporting 2 floors and a roof.

Type C loading is for a girder supporting 3 floors and a roof.

<sup>3</sup>Required size of column is based on girder support from 2 sides. Size of footing is based on allowable soil pressure of 2,000 pounds per square foot.

<sup>4</sup>Schedule 40.

<sup>5</sup>Footing thickness is based on the use of plain concrete with an ultimate compressive strength of not less than 2,000 pounds per square inch at 28 days. If approved, the footing thickness may be reduced based on an engineered design utilizing higher strength concrete and/or reinforcement.



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FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#85</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R403.1.4.1 Frost protection.</b>		Page Number <b>1 of 1, codebook page 99</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<b>R403.1.4.1 Frost protection.</b> 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: <ol style="list-style-type: none"> <li>1. Extended below the frost line specified in Table R301.2-(1)<del>X</del></li> <li>2. Constructed in accordance with Section R403.3.</li> <li>3. Constructed in accordance with ASCE 32.</li> <li>4. Erected on solid rock.</li> </ol> Footings shall not bear on frozen soil unless the frozen condition is permanent.			
<b>Exceptions:</b> <ol style="list-style-type: none"> <li>1. Protection of free-standing accessory structures with an area of <del>600</del> <sup>67</sup> 721 square feet (36 m<sup>2</sup>) or less, of light frame construction, with an eave height of 10 feet (3048 mm) or less shall not be required <u>when constructed in accordance with Table R309.</u></li> <li>2. Protection of free-standing accessory structures with an area of 400 square feet (37 m<sup>2</sup>) or less, of other than light frame construction, with an eave height of 10 feet (3048 mm) or less shall not be required.</li> <li>3. <del>2.</del> Decks not supported by a dwelling need not be provided with footings that extend below the frost line.</li> </ol>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal reflects the maximum area allowed for structures according to previously approved Table R309.			
Fiscal impact: This proposal will be a cost savings over the 2018 INRC. Estimate 3,500 detached structures where the INRC allows 121 square feet per structure allowed over the 600 allowed by the IRC, with a cost savings of \$1 per foot savings of a shallow monolithic foundation as compared to a frost depth foundation (Home Advisor website), 121 SF X \$1 = \$121.00 per structure. 3,500 X \$121 = <u>\$423,500</u> savings.			
REVIEW RECOMMENDATION			
Approve			
Reject			
Approve as amended <b>Motion, Second, Approved as amended</b>			
Further study			



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FOR OFFICE USE ONLY			
Received	8/7/2018	Code	2018 IRC
		Proposal number	#186
Code title: Indiana Residential Code			Edition 2020
Section number and title <b>R403.1.6 Foundation anchorage</b>			Page Number 1 of 2, Codebook pages 99 & 100
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>Indiana Association of Building Officials</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Ste 204, Columbia City, IN 46725</b>			Telephone number <b>260-248-3111, cell 260-212-2943</b>
PROPOSED CODE CHANGE (check one)			
<p>Change to read as follows    Add to read as follows    <input checked="" type="checkbox"/> Delete and substitute as follows    Delete without substitution</p> <p>Delete Section R403.1.6 and substitute as follows: <i>" , and concrete and masonry walls, "</i></p> <p><b>R403.1.6 Foundation anchorage.</b> Wood sole plates and sill plates supported directly on concrete slab, and concrete and masonry wall foundations shall be anchored to the foundation in accordance with this section. Sill plates and sole plates shall be protected against decay and termites where required by Sections R317 and R318.</p> <p><u>Cold-formed steel framing shall be anchored directly to the foundation or fastened to wood sill plates anchored to the foundation in accordance with Section R505.3.1 or R603.3.1, as applicable. Wood sill plates supporting cold-formed steel framing shall be anchored to the foundation in accordance with this section.</u></p> <p><b>R403.1.6.1 Anchor bolts.</b> Anchor bolts shall be located in the center one-third of the plate, shall have at least 7 inches (178 mm) embedment into concrete or grouted masonry cells, and shall have at least 1½ inches (38.7 mm) of concrete or grout surrounding the bolt shaft. Each anchor bolt shall have a washer, sized to be at least two times the diameter of the hole it covers, and a nut tightened to the plate. Except as allowed otherwise in this section anchor bolts shall be no farther than 12 inches (305 mm) from corners.</p> <p><b>Exception:</b> Approved anchors or anchor straps spaced as required to provide equivalent anchorage to 1/2-inch-diameter (12.7 mm) anchor bolts.</p> <p><b>R403.1.6.2 Sole plate anchor bolt location.</b> Anchor bolts spaced a maximum of 6 feet (1829 mm) on center shall fasten wood sole plates of exterior walls, <del>premanufactured panelized wall sections, site built wall panel sections, and braced wall panels at building interiors,</del> when installed directly on concrete slab foundations. There shall be no fewer than two bolts per plate section with one bolt located not more than 12 inches (305 mm) or less than seven bolt diameters from each end of the plate section.</p>			

*remove*

*strike out*



**Exceptions:**

1. Sole plates 24 inches (610 mm) total length or shorter supporting offset braced wall panels shall be anchored to the foundation with no fewer than one anchor bolt located in the center third of the plate section and shall be attached to adjacent braced wall panels at corners as shown in Item 9 of Table R602.3(1).

2. Connection of walls 12 inches (305 mm) total length or shorter connecting offset braced wall panels to the foundation without anchor bolts shall be permitted. The wall shall be attached to adjacent braced wall panels at corners as shown in Item 9 of Table R602.3(1).

3. Sole plates of interior bearing wall panel sections on concrete slab foundation that are not part of a braced wall panel shall be positively anchored with approved fasteners.

**R403.1.6.3 Sill plate anchor bolt location.** Anchor bolts shall fasten sill plates to concrete floors a maximum of 6 feet (1,829 mm) on center. Anchor bolts shall fasten sill plates to the top of concrete or masonry walls a maximum of 4 feet (1,219 mm) on center.

**Exception:** Sill plate anchor bolts shall be spaced a maximum of 6 feet (1,829 mm) on center when installed on foundation walls retaining less than 7 feet (2,135 mm) of unbalanced fill.

**Renumber Section R403.1.6.1 Foundation anchorage in Seismic Design Categories C, D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub> to: Section R403.1.6.4 Foundation anchorage in Seismic Design Categories C, D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.**

**REASON STATEMENT AND FISCAL IMPACT**

This proposal reorganizes and brings forward text from the current rule with the addition of language for panelized wall sole plates and sill plates.

**Fiscal impact:** This proposal reduces construction costs by reducing the number of anchor bolts on slab-type foundations that are not supporting panelized construction. However since there are additional bolts required on basement foundation walls supporting more than 7' of unbalanced fill the fiscal impact is neutral.

**REVIEW RECOMMENDATION**

Approve

Reject

Approve as amended

Further study

Motion, Second, Approved as amended



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Received	6/13/18	Code
		2018 IRC
		Proposal number
		#87

Code title		Edition
International Residential Code		2018
Section number and title		Page number
R403.1.7.3 Foundation elevation		100
Proponent	Representing (if applicable)	
Lynn Madden	Hallmark Homes	
Address (number and street, city, state, and ZIP code)		Telephone number
		( )

## PROPOSED CODE CHANGE (check one)

- ☐ Change to read as follows    ☐ Add to read as follows    ☐ Delete and substitute as follows    ☒ Delete without substitution

Delete Section R403.1.7.3 Foundation elevation.

## REASON STATEMENT AND FISCAL IMPACT

This language is from the 2005 Indiana Residential Code. No fiscal impact.

This proposal was approved by the previous committee reviewing the 2015 IRC.

## REVIEW RECOMMENDATION

Approve	Motion, Second, Approved as submitted
Reject	
Approve as amended	
Further study	



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FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#90</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>Table R404.1.2(8) Minimum vertical reinforcement for 6-, 8-, 10-, and 12 inch nominal flat basement walls</b>		Page Number <b>1 of 1, codebook page 122</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input checked="" type="checkbox"/> Delete without substitution  Delete Table R404.1.2(8) without substitution.			
REASON STATEMENT AND FISCAL IMPACT			
This table is an alternate to the 6-, 8-, 10- and 12-inch concrete wall tables located earlier in this chapter. This table requires that the vertical reinforcement be installed at a <u>maximum 1 1/4"</u> , and not less than 3/4" (3/4" tolerance) from the inside of the wall (opposite from the soil side). The table allows for less reinforcing than the other tables because of the specific location of the reinforcing in the wall, and my concern is that the table will be misused in the field and the spacing requirement in the footnotes will be ignored. I, personally, would only allow the use of this table if there was inspection of the reinforcing and exterior form before the installation of the interior form and this would be very difficult.			
Fiscal impact: This proposal is fiscally neutral.			
REVIEW RECOMMENDATION			
Approve <b>Motion, Second, Approved as submitted</b>			
Reject			
Approve as amended			
Further study			



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FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#91</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>Section R404.1.3.2 Reinforcement for foundation walls.</b>		Page Number <b>1 of 1, codebook page 124</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<b>R404.1.3.2 Reinforcement for foundation walls.</b> Concrete foundation walls shall be laterally supported at the top and bottom. Horizontal reinforcement shall be provided in accordance with Table R404.1.2(1). Vertical reinforcement shall be provided in accordance with Table R404.1.2(2), R404.1.2(3), R404.1.2(4), R404.1.2(5), R404.1.2(6), <u>or R404.1.2(7)</u> <del>or R404.1.2(8)</del> . Vertical reinforcement for flat <i>basement</i> walls retaining 4 feet (1219 mm) or more of unbalanced backfill is permitted to be determined in accordance with Table R404.1.2(9). For <i>basement</i> walls supporting above-grade concrete walls, vertical reinforcement shall be the greater of that required by Tables R404.1.2(2) through <del>R404.1.2(8)</del> <u>R404.1.2(7)</u> or by Section R608.6 for the above-grade wall. In buildings assigned to Seismic Design Category D <sub>0</sub> , D <sub>1</sub> or D <sub>2</sub> , concrete foundation walls shall also comply with Section R404.1.4.2.			
REASON STATEMENT AND FISCAL IMPACT			
This proposal removes reference to Table R404.1.2(8) subsequent to previous action.			
Fiscal impact: This proposal is fiscally neutral.			
REVIEW RECOMMENDATION			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			



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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#92</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>Section R404.1.3.3.7.2 Location of reinforcement in wall.</b>		Page Number <b>1 of 1, codebook page 125</b>	
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO</b>		
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<b>R404.1.3.3.7.2 Location of reinforcement in wall.</b> The center of vertical reinforcement in <i>basement</i> walls determined from Tables R404.1.2(2) through R404.1.2(7) shall be located at the centerline of the wall. <del>Vertical reinforcement in basement walls determined from Table R404.1.2(8) shall be located to provide a maximum cover of 1 1/4 inches (32 mm) measured from the inside face of the wall.</del> Regardless of the table used to determine vertical wall reinforcement, the center of the steel shall not vary from the specified location by more than the greater of 10 percent of the wall thickness and 3/8 inch (10 mm). Horizontal and vertical reinforcement shall be located in foundation walls to provide the minimum cover required by Section R404.1.3.3.7.4.			
REASON STATEMENT AND FISCAL IMPACT			
This proposal removes reference to Table R404.1.2(8) subsequent to previous action.			
Fiscal impact: This proposal is fiscally neutral.			
REVIEW RECOMMENDATION			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			

JUN 11 2018

LEGAL AND CODE  
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## PROPOSAL FOR CODE CHANGE

State Form 41186 (R3 / 5-10)

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FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b># 93</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R404.2.1 Identification.</b>		Page Number <b>1 of 1, codebook page 129</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<b>R404.2.1 Identification.</b> Load-bearing lumber shall be identified by the grade <i>mark</i> of a lumber grading or inspection agency that has been approved by an accreditation body that complies with DOC PS 20. <del>In lieu of a grade mark, a certificate of inspection issued by a lumber grading or inspection agency meeting the requirements of this section shall be accepted.</del> Wood structural panels shall conform to DOC PS 1 or DOC PS 2 and shall be identified by a grade <del>mark or certificate of inspection issued by an approved agency.</del>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal reflects the current requirements in Indiana that components have a grade mark for identification.			
Fiscal impact: This proposal is fiscally neutral.			
REVIEW RECOMMENDATION			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			





# PROPOSAL FOR CODE CHANGE

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FOR OFFICE USE ONLY		
Received	Code	Proposal number
12/14/2018	2018 IRC	# 366

Code title International Residential Code		Edition 2018
Section number and title R405.2.3 Drainage system		Page number 131
Proponent Phil Gettum	Representing (if applicable) Gettum Associates	
Address (number and street, city, state, and ZIP code)		Telephone number ( )

## PROPOSED CODE CHANGE (check one)

- ☐ Change to read as follows
 ☐ Add to read as follows
 ☒ Delete and substitute as follows
 ☐ Delete without substitution

### R405.2.3 Drainage system.

In other than Group I soils, a sump pit shall be provided to drain the porous layer and footings. The sump pit shall be a minimum of 18 inches (457 mm) in diameter or equivalent and a minimum of 24 inches (610 mm) below the bottom of the basement floor. Where a porous layer of gravel, crushed stone, or coarse sand is used between the soil and the concrete floor slab, openings shall be made in the sump pit to allow drainage of that layer. The sump pit shall be capable of positive gravity or mechanical drainage to remove any accumulated water.

EXCEPTION: When a gravity drain system is used a sump pit is not required.

## REASON STATEMENT AND FISCAL IMPACT

This is the amendment to the 2005 Indiana Residential Code and is consistent with proposal #100 (Wagner) approved by the committee to amend Section R408.8 Under-floor drainage, which states "Under-floor spaces shall comply with Section R408.3 Item 1 and shall be drained to a gravity discharge sump pit, having a minimum size of 18 inches (457 mm) diameter by 24 inches (610 mm) deep, by one of the following methods:..."

No fiscal impact. Zero

## REVIEW RECOMMENDATION

Approve	Motion, Second, Approved as Submitted.
Reject	
Approve as amended	
Further study	

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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#95</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R407.3 Structural requirements.</b>		Page Number <b>1 of 1, codebook page 133</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<p><b>R407.3 Structural requirements.</b> The columns shall be restrained to prevent lateral displacement at the bottom end <u>and attached to framing at the top.</u> Wood columns shall be not less in nominal size than 4 inches by 4 inches (102 mm by 102 mm). Steel columns shall be not less than 3-inch-diameter (76 mm) Schedule 40 pipe manufactured in accordance with ASTM A53 Grade B or <i>approved</i> equivalent.</p> <p><b>Exception:</b> In Seismic Design Categories A, B and C, columns not more than 48 inches (1219 mm) in height on a pier or footing are exempt from the bottom end lateral displacement requirement within under-floor areas enclosed by a continuous foundation.</p>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal reflects the current requirements in Indiana for column installation. <i>No fiscal impact when effective.</i>			
Fiscal impact: This proposal has added cost over the 2018 IRC. $14,086 \times .33 = 4,648$ . $4,648 \times \$5 = \$23,240$			
REVIEW RECOMMENDATION			
Approve <i>Motion, Second, Approved as submitted</i> <i>securing (nails, fasteners)</i>			
Reject			
Approve as amended			
Further study			



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FOR OFFICE USE ONLY		
Received	6/13/18	Code 2018 IRC
		Proposal number #96

Code title International Residential Code		Edition 2018
Section number and title R408.1 Ventilation		Page number 133
Proponent Phil Gettum	Representing (if applicable) Gettum Associates	
Address (number and street, city, state, and ZIP code)		Telephone number ( )

### PROPOSED CODE CHANGE (check one)

- ☒ Change to read as follows    ☐ Add to read as follows    ☐ Delete and substitute as follows    ☐ Delete without substitution

Change the last sentence of Section R408.1 to read as follows: One such ventilation opening shall be within 3-feet (914-mm) 4 feet (1,219 mm) of each corner of the building.

the inside of

### REASON STATEMENT AND FISCAL IMPACT

No fiscal impact as this is from the 2005 Indiana Residential Code.

The previous committee reviewing the 2015 IRC approved this proposal.

### REVIEW RECOMMENDATION

Approve

Reject

Approve as amended

Motion, Second, Approved as amended.

Further study





# PROPOSAL FOR CODE CHANGE

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COMMISSION  
STAFF



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4. Return this completed form to: Indiana Department of Homeland Security, Code Services, 402 West Washington Street, Room W246, Indianapolis, Indiana 46204.

### FOR OFFICE USE ONLY

Received <b>1/18/2019</b>	Code <b>2018 IRC</b>	Proposal number <b># 379</b>
Code title: <b>Indiana Residential Code</b>		Edition <b>2020</b>
Section number and title <b>R408.3 Unvented crawl space</b>		Page Number <b>1 of 1, Codebook page 133</b>
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO for 2.1 and 2.2, SIBA for 2.4</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Ste 204, Columbia City, IN 46725</b>		Telephone number <b>(260) 248-3111, cell 260-212-2943</b>

### PROPOSED CODE CHANGE (check one)

Change to read as follows    Add to read as follows    ☒ Delete and substitute 2.1, 2.2 and 2.4 as follows    Delete without substitution

Section R408.3, delete item 2.1, 2.2 and 2.4, and substitute as follows (Item 2.3 is not amended by this proposal):

2.1. The walls of the under-floor space are insulated in accordance with Chapter 11 and Section R316 of this code. Uninsulated mechanical ductwork is allowed and shall have no openings into the under-floor space. A hard surface pad with dimensions of at least 16 inches (407 mm) by 16 inches (407 mm) and an electrical receptacle shall be located adjacent to the sump or gravity drain to allow for the installation of dehumidification equipment in the event of high humidity conditions in the under-floor space.

2.2. The walls of the under-floor space are insulated in accordance with Chapter 11 and Section R316 of this code with insulation materials listed for the interior of a dwelling, or the materials shall be protected in accordance with their listing. A concrete floor at least 2 inches (51 mm) thick installed over a vapor retarder complying with Item 1. of this section shall be installed on the ground surface of the under-floor space. Conditioned air shall be circulated through the under-floor space at a rate of at least 1 cfm (0.03 m<sup>3</sup>) for each 50 square feet (4.6 m<sup>2</sup>) of under-floor space.

2.4 Construction of the crawlspace area shall be in accordance with Section R703.8.6 and Figure R703.8.6(1). The crawlspace perimeter walls are insulated in accordance with Chapter 11 and Section R316 of this code, and insulated or uninsulated ductwork supplies conditioned air to the crawlspace area.

### REASON STATEMENT AND FISCAL IMPACT

This proposal, revised 12-27-2018, reflects the language in our current rule and gives direction for installation of crawl spaces for dwellings. Revisions to the original proposal #125 include;

1. The words "Ventilation openings are not required when" were struck by amendment in committee on 7-18-18.
2. The references to Section R314 were incorrect, that section in the 2018 IRC is for smoke detectors, the foam insulation sections have been combined into Section R316 in the 2018 IRC.
3. Exception #5 from Section R408.2 of 2005 InRC was not brought forward in the original proposal and is added to this amended proposal at the request of the Southwestern Indiana Builders Association.

**Fiscal impact:** This proposal is fiscally neutral with the 2018 IRC.

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ID: 12  
2/1/19

REVIEW RECOMMENDATION

Approve

Motion (GF), Second (MP), Approved as submitted

Reject

Approve as amended

Further study

Approved as submitted by the FPBSC - 2/5/19



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FOR OFFICE USE ONLY		
Received	6/13/18	Code 2018 IRC
		Proposal number #98

Code title International Residential Code		Edition 2018
Section number and title R408.4 Access		Page number 133
Proponent Lynn Madden, Hallmark Homes	Representing (if applicable)	
Address (number and street, city, state, and ZIP code)		Telephone number ( )

## PROPOSED CODE CHANGE (check one)

- ☒ Change to read as follows    ☒ Add to read as follows    ☐ Delete and substitute as follows    ☐ Delete without substitution

Delete the 2nd to last sentence in R408.4 Access.

Add an exception to read as follows:

Exception: Access may be placed under a doorway provided the step or steps that cover the opening to the crawlspace are attached to the structure at the top with a fixed pin-type hinge, so that, when the step or steps are in the raised position, passage by way of the doorway is restricted.

## REASON STATEMENT AND FISCAL IMPACT

No fiscal impact as this is from the 2005 Indiana Residential Code.

Proposal approved by preview committee reviewing 2015 IRC.

## REVIEW RECOMMENDATION

Approve	Motion, Second, Approved as submitted
Reject	
Approve as amended	
Further study	





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FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#100</b>	
Code title: <b>Indiana Residential Code</b>		Edition <b>2019</b>	
Section number and title <b>Section R408.8, Underfloor drainage</b>		Page Number <b>1 of 1, Codebook page 134</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>Indiana Association of Building Officials</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Ste 204, Columbia City, IN 46725</b>		Telephone number <b>(260) 248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<p>Change to read as follows    <input checked="" type="checkbox"/> Add to read as follows    Delete and substitute as follows    Delete without substitution</p> <p>Add as follows: <b><u>Section R408.8 Under-floor drainage.</u></b> Under-floor spaces shall comply with Section R408.3, Item 1. and shall be drained to a gravity discharge or sump pit, having a minimum size of 18 inches (457 mm) diameter by 24 inches (610 mm) deep, by one of the following methods:</p> <p><b><u>1. The under-floor space shall be graded at a slope of not less than 1 inch (25 mm) for each 10 feet (3,048 mm) to a gravity discharge or a sump pit installed below the lowest point of the slope so that, in the event of excess water accumulation, a sump pump can be readily installed.</u></b></p> <p><b><u>2. The under-floor space shall be graded at a slope of not less than ½ inch (13 mm) for each 10 feet (3,048 mm) to a gravity discharge or a sump pit installed below the lowest point of the slope. Not less than 3 inches (76 mm) of granular material shall be placed between the ground surface and the vapor retarder so that in the event of excess water accumulation a sump pump can be readily installed.</u></b></p>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal adds crawlspace drainage as we have in the current residential rule.			
Fiscal Impact: This amendment adds expense since the 2018 IRC does not address under-floor space drainage. It is not possible to estimate the impact because of too many variables.			
REVIEW RECOMMENDATION			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			



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FOR OFFICE USE ONLY			
Received	6/11/18	Code	2018 IRC
		Proposal number	#102
Code title		Edition	
Indiana Residential Code		2020	
Section number and title		Page Number	
R502.1.1 Sawn lumber		1 of 1, codebook page 135	
Proponent		Representing (if applicable)	
Craig Wagner		IABO	
Address (number and street, city, state, and ZIP code)		Telephone number	
220 W Van Buren St, Columbia City, IN 46725		260-248-3111	
PROPOSED CODE CHANGE (check one)			
<input type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input checked="" type="checkbox"/> Delete without substitution			
Delete the second sentence of R502.1.1 as follows:			
<b>R502.1.1 Sawn lumber.</b> Sawn lumber shall be identified by a grade <i>mark</i> of an accredited lumber grading or inspection agency and have design values certified by an accreditation body that complies with DOC PS 20. <del>In lieu of a grade mark, a certificate of inspection issued by a lumber grading or inspection agency meeting the requirements of this section shall be accepted.</del>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal reflects the requirements for Indiana's codes that require a stamp on lumber.			
Fiscal impact: no fiscal impact			
REVIEW RECOMMENDATION			
Approve	Motion, Second, Approved as submitted		
Reject			
Approve as amended			
Further study			

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402 West Washington Street, Room W246, Indianapolis, Indiana 46204.



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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#103</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R502.6.2 Joist framing</b>		Page Number <b>1 of 1, codebook page 141</b>	
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO</b>		
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
<b>PROPOSED CODE CHANGE (check one)</b>			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
Change R502.6.2 as follows:  <b>R502.6.2 Joist framing.</b> Joists framing into the side of a wood girder shall be supported by <i>approved</i> framing anchors <del>or on ledger strips not less than nominal 2 inches by 2 inches (51 mm by 51 mm).</del> <b>or on ledger strips not less than nominal 2 inches by 4 inches (51 mm by 102 mm)</b>			
<b>REASON STATEMENT AND FISCAL IMPACT</b>			
The installation of ledger strips are rarely correct, the requirement for one and on-half inch bearing requires a perfect cut on the end of the joist and the nailing requirement is usually not correct requiring in almost all cases the ledger strip has to be removed and hangers installed.			
Fiscal impact: the cost of the hangers is offset by the need for re-nailing and additional labor of corrections, no fiscal impact.			
<b>REVIEW RECOMMENDATION</b>			
Approve			
Reject			
Approve as amended <b>Motion, Second, Approved as amended.</b>			
Further study			



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FOR OFFICE USE ONLY		
Received	Code	Proposal number
6/13/18	2018 IRC	# 105

Code title <b>International Residential Code</b>		Edition <b>2018</b>
Section number and title <b>Figure R502.8 Cutting, notching and drilling</b>		Page number <b>141</b>
Proponent <b>Phil Gettum</b>	Representing (if applicable) <b>Gettum Associates</b>	
Address (number and street, city, state, and ZIP code)		Telephone number ( )

**PROPOSED CODE CHANGE (check one)**

- ☐ Change to read as follows
 ☐ Add to read as follows
 ☒ Delete and substitute as follows
 ☐ Delete without substitution

Delete FIGURE R502.8 and substitute as follows: FIGURE R502.8

See attached

1. Remove "No Holes" from top and middle figures of Figure 502.8
2. Dotted lines added to top and middle figures

**REASON STATEMENT AND FISCAL IMPACT**

This replaces the top and middle figures in R502.8 of the 2018 IRC with 3 figures from the Indiana Amendments to R502.8, and adds the bottom figure in R502.8 of the 2018 IRC. No fiscal impact.

This proposal was approved by the previous committee reviewing the 2015 IRC.

**REVIEW RECOMMENDATION**

Approve

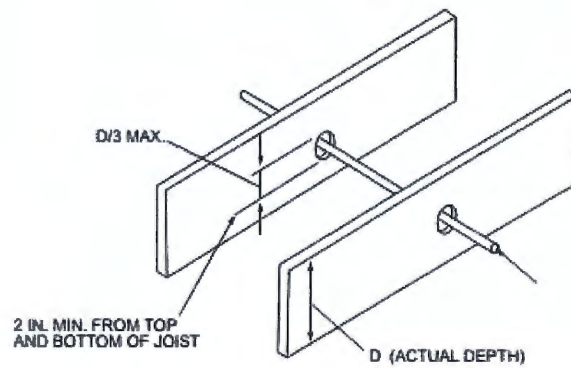
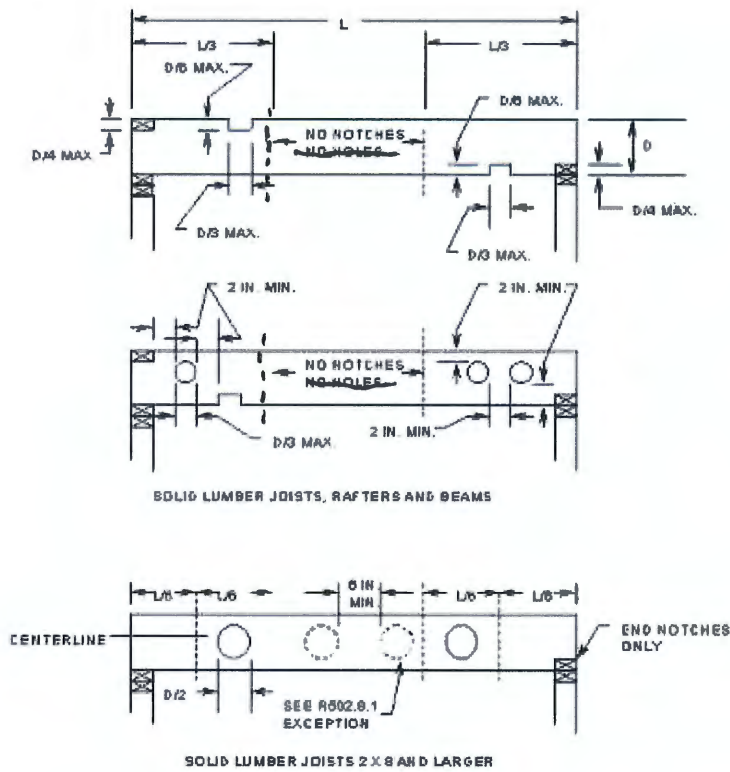
Reject

Approve as amended

Further study

*Motion, second, approved as amended*

Figure R502.8 Cutting, notching, and drilling



For SI: 1 inch = 25.4 mm.



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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b># 106</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R502.8.1 Sawn lumber (drilling)</b>		Page Number <b>1 of 1, codebook page 141</b>	
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO</b>		
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input type="checkbox"/> Change to read as follows <input checked="" type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<p>Add an exception to SECTION R502.8.1 to read as follows:</p> <p><b><u>EXCEPTION: In 2 × 8 and larger solid lumber joists, holes up to 50 percent of the actual joist depth may be drilled at the center of the joist depth in the second and fifth sixths of the joist span. When the joist spans 90 percent or less of its maximum allowed span per TABLE R502.3.1(1) or R502.3.1(2), such holes may also be located in the center third of the joist span. Such hole shall be no closer than 6 inches (152 mm) from any other hole. Except for end notches, no notches may be in the same half of the span as a hole allowed by this exception.</u></b></p>			
REASON STATEMENT AND FISCAL IMPACT			
<p>This proposal adds the current language that allows larger holes when installed in specified sections of the joist; this amendment has been helpful to plumbers and HVAC contractors.</p> <p>Fiscal impact: smaller joists can be used in some structures or the requirement to add a chase at the edge of a room is eliminated; estimated savings from the 2018 IRC requirements: 14,640 X .10 = 1464, 1464 X \$85 = <u>\$124,440</u></p>			
REVIEW RECOMMENDATION			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			





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3. Use a second sheet for any material requiring more space.
4. Return this completed form to: Indiana Department of Homeland Security, Code Services, 402 West Washington Street, Room W246, Indianapolis, Indiana 46204.

FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#101</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R502, Table R502.3.3(2) Cantilever spans for floor joist supporting exterior balconies a,b,e,f</b>		Page Number <b>1 of 1, codebook page 142</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
<b>PROPOSED CODE CHANGE (check one)</b>			
<input type="checkbox"/> Change to read as follows <input checked="" type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<p>Add a reference to footnotes "g" and "h" in the title of TABLE R502.3.3(2).</p> <p>(b) Add footnote "g" to read as follows: <u>g. In addition to snow loads shown the table includes 40 psf of live load.</u></p> <p>(c) Add footnote "h" to read as follows: <u>h. Use of the table shall be permitted for the construction of interior balconies not supporting roof loads.</u></p>			
<b>REASON STATEMENT AND FISCAL IMPACT</b>			
<p>This proposal reflects the current code language that allows the use of this table for interior balconies and adds loading language.</p> <p>Fiscal impact: none</p>			
<b>REVIEW RECOMMENDATION</b>			
Approve <b>Motion, Second, Approved as submitted.</b>			
Reject			
Approve as amended			
Further study			



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3. Use a second sheet for any material requiring more space.
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FOR OFFICE USE ONLY			
Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#108</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R502.11.1 Design (trusses)</b>		Page Number <b>1 of 1, codebook page 143</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
<b>PROPOSED CODE CHANGE (check one)</b>			
<input type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input checked="" type="checkbox"/> Delete without substitution			
Delete the last sentence of SECTION R502.11.1 as follows:			
<b>R502.11.1 Design.</b> Wood trusses shall be designed in accordance with <i>approved</i> engineering practice. The design and manufacture of metal-plate-connected wood trusses shall comply with ANSI/TPI 1. <del>The truss design drawings shall be prepared by a registered professional where required by the statutes of the jurisdiction in which the project is to be constructed in accordance with Section R106.1.</del>			
<b>REASON STATEMENT AND FISCAL IMPACT</b>			
This proposal reflects the current code language that does not allow local jurisdictions to require additional engineering.			
Fiscal impact: <u>none</u>			
<b>REVIEW RECOMMENDATION</b>			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			





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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b>#110</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R502.11.4 Truss design drawings</b>		Page Number <b>1 of 1, codebook page 144</b>	
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO</b>		
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
<b>PROPOSED CODE CHANGE (check one)</b>			
<input type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input checked="" type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
Delete the text of Section R502.11.4 in its entirety and substitute as follows:  <b>R502.11.4 Truss design drawings. <u>Truss design drawings shall be provided to the building official as required by the General Administrative Rules (675 IAC 12) for Class 1 structures or by local ordinance for Class 2 structures.</u></b>			
<b>REASON STATEMENT AND FISCAL IMPACT</b>			
This proposal reflects the current code language that designates when truss drawings are required.			
Fiscal impact <b>none</b>			
<b>REVIEW RECOMMENDATION</b>			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			

Approved w/ 1 nay



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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b># 111</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R503.2.1 Identification and grade.</b>		Page Number <b>1 of 1, codebook page 144</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
<p><b>R503.2.1 Identification and grade.</b> Wood structural panel sheathing used for structural purposes shall conform to CSA O325, CSA O437, DOC PS 1, or DOC PS 2. Panels shall be identified for grade, bond classification and Performance Category by a grade mark <del>or certificate of inspection issued by an approved agency.</del> The Performance Category value shall be used as the "nominal panel thickness" or "panel thickness" wherever referenced in this code.</p>			
REASON STATEMENT AND FISCAL IMPACT			
<p>This proposal reflects the current code language that panels require a stamp.</p>			
Fiscal impact: none			
REVIEW RECOMMENDATION			
Approve	<b>Motion, Second, Approved as submitted</b>		
Reject			
Approve as amended			
Further study			



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FOR OFFICE USE ONLY			
Received	6/11/18	Code	2018 IRC
		Proposal number	#112
Code title		Edition	
Indiana Residential Code		2020	
Section number and title		Page Number	
R503.3.1 Identification and grade. (particleboard)		1 of 1, codebook page 145	
Proponent		Representing (if applicable)	
Craig Wagner		IABO	
Address (number and street, city, state, and ZIP code)		Telephone number	
220 W Van Buren St, Columbia City, IN 46725		260-248-3111	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
Change Section R503.3.1 as follows:			
<b>R503.3.1 Identification and grade.</b>			
Particleboard shall conform to ANSI A208.1 and shall be so identified by a grade <del>mark or certificate of inspection issued by an approved agency.</del>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal reflects the current code language that panels require a stamp.			
Fiscal impact <u>none</u>			
REVIEW RECOMMENDATION			
Approve	Motion, Second, Approved as submitted		
Reject			
Approve as amended			
Further study			





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Received <b>6/11/18</b>	Code <b>2018 IRC</b>	Proposal number <b># 113</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R505.1.3 Floor trusses</b>		Page Number <b>1 of 1, codebook page 146</b>	
Proponent <b>Craig Wagner</b>		Representing (if applicable) <b>IABO</b>	
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
Change Section R505.1.3 as follows:			
<b>R505.1.3 Floor trusses.</b> Cold-formed steel trusses shall be designed, braced and installed in accordance with AISI S240. In the absence of specific bracing requirements, trusses shall be braced in accordance with accepted industry practices, such as the <i>SBCA Cold-Formed Steel Building Component Safety Information (CFSBCSI), Guide to Good Practice for Handling, Installing &amp; Bracing of Cold-Formed Steel Trusses</i> . Truss members shall not be notched, cut or altered in any manner without an <u>approved design from an architect registered under IC 25-4 or a professional engineer registered under IC 25-31.</u> <b>a registered design professional.</b>			
REASON STATEMENT AND FISCAL IMPACT			
This proposal reflects the current code language that requires an approved design for the alteration.			
Fiscal impact: <b>none</b>			
REVIEW RECOMMENDATION			
Approve			
Reject			
Approve as amended <b>Motion, Second, Approved as amended</b>			
Further study			



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FOR OFFICE USE ONLY			
Received	6/13/18	Code	2018 IRC
		Proposal number	#114
Code title		Edition	
International Residential Code		2018	
Section number and title		Page Number	
R507.2.1 Wood materials		162	
Proponent		Representing (if applicable)	
Lynn Madden, Hallmark Homes			
Address (number and street, city, state, and ZIP code)		Telephone number	
PROPOSED CODE CHANGE (check one)			
<input type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input checked="" type="checkbox"/> Delete without substitution			
Delete the 2 <sup>nd</sup> to last sentence in R507.2.1 without substitution.			
<b>R507.2.1 Wood materials.</b> Wood materials shall be No. 2 grade or better lumber, preservative-treated in accordance with Section R317, or <i>approved</i> , naturally durable lumber, and termite protected where required in accordance with Section R318. Where design in accordance with Section R301 is provided, wood structural members shall be designed using the wet service factor defined in AWC NDS. <del>Cuts, notches and drilled holes of preservative-treated wood members shall be treated in accordance with Section R317.1.1.</del> All preservative-treated wood products in contact with the ground shall be labeled for such usage.			
REASON STATEMENT AND FISCAL IMPACT			
Reason:			
Fiscal impact:			
REVIEW RECOMMENDATION			
Approve	Motion, Second, Approved as submitted		
Reject			
Approve as amended			
Further study			



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Received <b>6/25/18</b>	Code <b>2018 IRC</b>	Proposal number <b># 126</b>	
Code title <b>Indiana Residential Code</b>		Edition <b>2020</b>	
Section number and title <b>R507, Table R507.4 Deck post height</b>		Page Number <b>1 of 1, codebook page 163</b>	
Proponent <b>Craig Wagner</b>	Representing (if applicable) <b>IABO</b>		
Address (number and street, city, state, and ZIP code) <b>220 W Van Buren St, Columbia City, IN 46725</b>		Telephone number <b>260-248-3111</b>	
PROPOSED CODE CHANGE (check one)			
<input checked="" type="checkbox"/> Change to read as follows <input type="checkbox"/> Add to read as follows <input type="checkbox"/> Delete and substitute as follows <input type="checkbox"/> Delete without substitution			
Change footnote "a." to Table R507.4 as follows:  a. Measured to the underside of the beam <u>from grade, top of column or post base.</u>  (revised 6-25-18 for 7-18-18 meeting)			
REASON STATEMENT AND FISCAL IMPACT			
This proposal clarifies how the height of the post is measured.  Fiscal impact: none			
REVIEW RECOMMENDATION			
Approve	<b>Approved as submitted (w/ motion, second)</b>		
Reject			
Approve as amended			
Further study			