#### **Lisa Hertzog – Plan Review Coordinator**

## Detached One and Two-Family Dwellings IRC Townhomes





### **Self-Certification = Plan Review**

- Successful Plan Review
- Successful Projects
- Successful Audits



We Want You to Succeed

#### **Submittal Requirements**

- Getting the Permit Starts with a Complete Submittal Package
- More Documentation is Required of the Self-Certifier than for Regular Submittals
- Review the Submittal Before Completing the Upload Task in SHAPE PHX



#### These documents and many more can be found at:

https://www.phoenix.gov/pdd/self-certification-program/procedures-forms-and-links

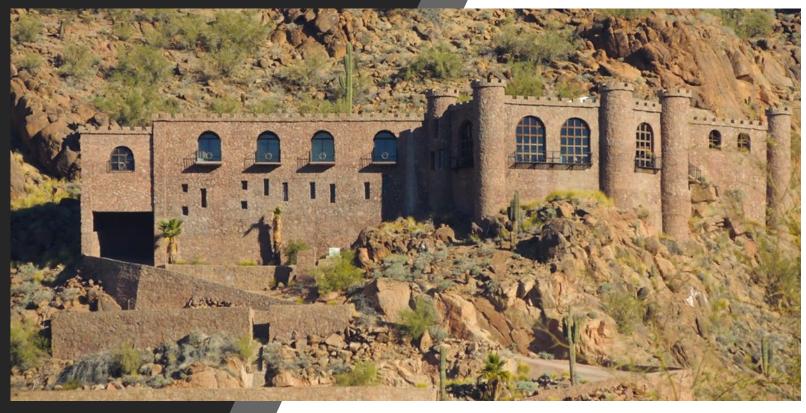
#### **IRC Scope**



The provisions of the International Residential Code (IRC) apply to detached one- and two-family dwellings and townhouses not more than three stories above-grade in height with a separate means of egress and their accessory structures.

## Typical Single-Family Home





#### Example of an Accessory Structure to a Single-Family Home



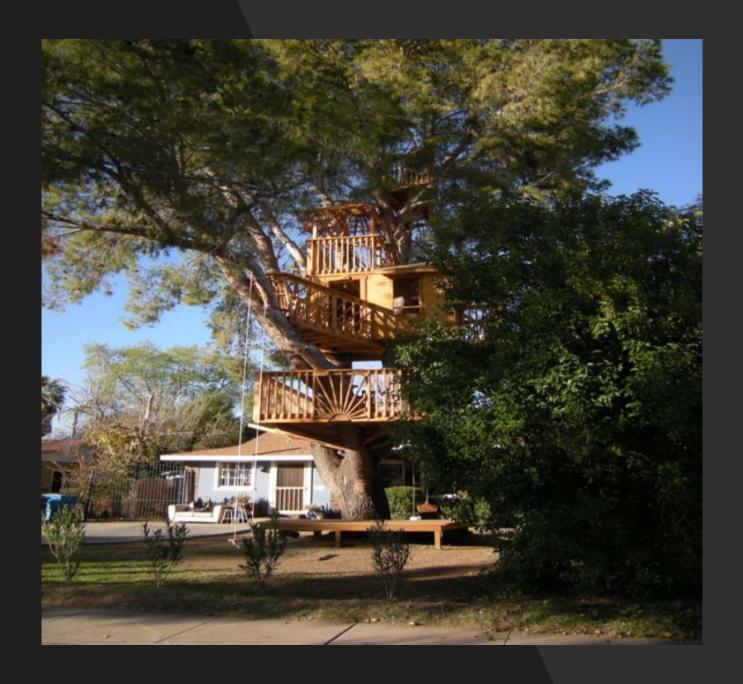




#### **Scope Addendum**



- 1. Live/work units complying with the requirements of Section 419 of the *International Building Code* shall be permitted.
- 2. Owner-occupied lodging houses with five or fewer guestrooms shall be permitted to be constructed in accordance with the *International Residential Code for One- and Two-family Dwellings.*





## Does this house require a permit?

#### **Projects Not Eligible**



- Floodplain Construction (FEMA SFHA)
- Hillside Construction





# Flood vent installed in a residential garage

#### Fire Sprinklers

Per 2018 Phoenix Fire Code section 903.1,

(aka: Brett Tarver Ordinance)

https://www.phoenix.gov/ fire/prevention/sprinklerordinance



#### Plans Note:

Per the 2018 Phoenix Fire Code, section 903.1, an Automatic Fire Sprinkler System designed per IRC P2904 or NFPA 13D shall be installed. Fire Sprinkler system shall be under separate plan reviews and permit.

#### Fire Sprinklers (Retrofit)



Existing group R-3 occupancies shall be protected by an automatic sprinkler system when:

- 1. One or more additions are made within a 3-year period and;
- 2. The aggregate area of the additions exceeds 50% of square footage of the house as of June 17, 2002 and;
- 3. The new total enclosed area of the building is greater than 5,000 sf.

#### **Fire Flow Testing**

Per 2018 Phoenix Fire Code Appendix B Section B105, and Table B105.1

Any residential project exceeding 3600 square feet under the roof, must meet the fire flows shown in the table.



#### **Plans Note:**

PROPERTY OWNER IS RESPONSIBLE FOR CONFIRMING THAT THE FIRE FLOW REQUIREMNTS OF THE PHOENIX FIRE CODE, APPENDIX B, SECTION 105, AND TABLE 105.1 ARE ACHIEVED PRIOR TO COMMENCING CONSTRUCTION. FIRE FLOWS BELOW THE MINIMUNS REQUIRED BY TABLE 105.1 SHALL REQUIRE REVISED PLANS OR THE INSTALLATION OF AN NFPA 13D AUTOMATIC FIRE SPRINKLER SYSTEM.

THE REQUIRED FIRE FLOWS FOR THIS PROJECT ARE: GPM





If a parcel does not have access to city sewer and city staff determine a sewer main extension is not feasible, an approved permit for an On-Site Wastewater Treatment facility from the Maricopa County Environmental Services Department is required prior to submittal of self certified projects

#### **Plot / Site Plans**

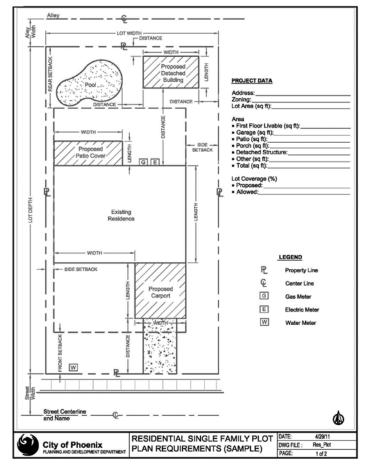
Plot Plans must be preapproved by Zoning before submitting building plans.

An example of a plot plan and all requirements can be found here:

https://www.phoenix.gov/pddsi te/Documents/dsd trt pdf 002 85.pdf



## PRESERVE SHAPE BUILD







Grading and Drainage requirements must be met before submitting building plans

#### **City of Phoenix Amendments**



All 2018 City of Phoenix amendments can be found on-line at:

https://www.phoenix.gov/pdd/devcode/buildingcode

https://codes.iccsafe.org/public/collections/I-Codes

#### **Policies**

The following topics and more, are on-line at:

https://www.phoenix.gov/pdd/topics

- Self-Certification Requirements
- Residential Plan Review Checklist
- Single Family Design Review



#### **Guidelines and Interpretations**

The following topics and more, are on-line at: <a href="https://www.phoenix.gov/pdd/topics">https://www.phoenix.gov/pdd/topics</a>



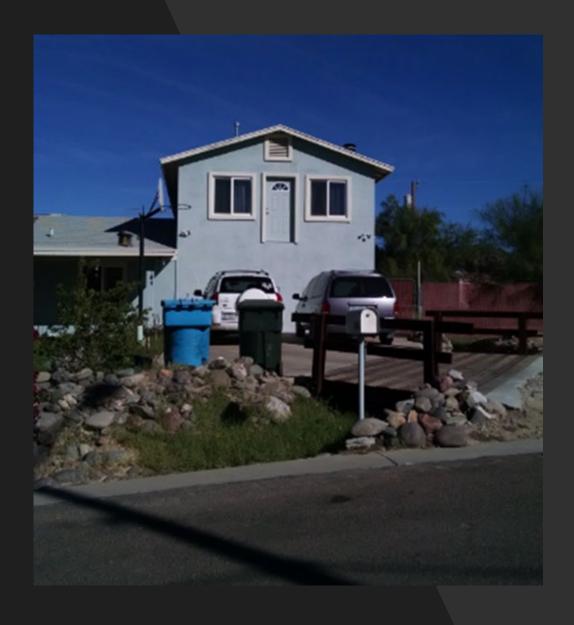
- Electrical Plans & Specifications Required
- Electrical Services 400 Amps and Greater
- Plot Plan Requirements
- Due Diligence







- Wall bracing does not meet prescriptive requirements of IRC R602.10
- Fire rated assemblies are not detailed on plans
- Connection details are not provided
- Structural design calculations are not provided for construction that does not meet the prescriptive requirements of the IRC





## What's wrong with this picture?

## Common Errors & Omissions Continued



- Evaluation report listings are not provided for specific materials <u>or are not current</u> (stucco, roof tile, etc.)
- Stairs are not completely detailed on plans
- Compliance with natural light and ventilation requirements of IRC R303 is not demonstrated
- Soils report is not provided when engineered fill is used





## Is this ski ramp code compliant?

## Common Errors & Omissions at Inspection



- Mechanical plans are not provided Manuals J, S and D
- Compliance with energy conservation requirements of IRC Chapter 11 (IECC Residential Provisions) is not demonstrated
- Electrical load calculations, panel schedule and one-line diagrams are not provided
- Gas isometrics are not provided or are not adequately sized

### **Common Errors & Omissions** at Submittal



Failure to provide all applicable forms

Each time you have to submit a plan again, it is considered another intake meeting and a \$300.00 fee is applied to your submittal.

#### **Forms**

The following forms (plus many others) can currently be found on-line at:

https://www.phoenix.gov/pdd/topics

- Residential Water Meter Worksheet
- Energy Conservation Code Residential Compliance Certificate
- Residential Construction Survey Requirements
- Other required documents



**PRESERVE** 

## Everything you need to know can be found online at:



https://www.phoenix.gov/pdd/self-certification-program

#### **Questions?**

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#### **For Plans Submittal Requirements:**

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