

PLAN REVIEW

Date: February 22, 2018

Project Name: Wadman Subdivision Phase 1

Project Address: 6089 N 2250 E, Liberty

Contractor/Contact: Ryan Wadman, wadmanryan@gmail.com, 8016904495

Fee(s):

Property Type	Schedule Rates	Rate/1000 Sq Ft	Square Feet or Number of Res. Units	Total
Type	Rate		Sq Ft or # of Units	Total
Plan Review	Residential			\$50.00
Impact Fee		244.97		\$0.00
			Total Due	\$50.00

Fee Notice:

Weber Fire District has various fees associated with plan reviews, and inspections. Please be prepared to make payments at the time when you pick up your approved plans. Impact Fees are due prior to taking out a building permit. Contact our offices at 801-782-3580 to arrange payments.

Status: APPROVED WITH CONDITIONS

A Written Response Is Required. Please address each item.

Items **HIGHLIGHTED** in yellow are items that must be specifically addressed by the responsible design professional.

BOTH SPECIFIC AND GENERAL COMMENTS MUST BE READ AND ADHEARED TO.

Specific Comments:

Water Supply:

- S1. Water Supply Analysis Required: Prior to any construction being done, a water supply analysis shall be completed and submitted by an engineering firm or a fire protection engineer. This water supply analysis must include:
- a. Building Construction Type
 - b. Available Water for fire-fighting purposes
 - i. Static Flow Rates
 - ii. Residual Flow Rates
 - iii. Flowing GPM
 - iv. Duration of flowing GPM available.
 - c. Statement of conformance/non-conformance to 2012 International Fire Code section 507 and Appendix B as adopted by Weber Fire District (See

Chief, David L. Austin - Deputy Chief, Paul Sullivan - Fire Marshal, Brandon Thueson



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Resolution 04-2014 at <http://weberfiredistrict.com/services/fire-prevention>).

- d. If deficiency exists, proposed method to obtain conformance with adopted codes and Resolution 04-2014.
- S2. Fire Flow: Fire flow for the residential subdivision shall be 1000 GPM.
- S3. Fire Hydrant(s): One new fire hydrant must be provided within 400 feet of the furthest most portion of a building or facility (see IFC 507.5.1). The maximum spacing between hydrants in a residential area is 500 ft.
- S4. All required fire hydrants and water systems shall be installed, approved and fully functional and on, prior to any combustible construction (IFC section 507.1 and 3312).

Fire Detection and Suppression Systems:

- S5. Fire Suppression Systems: As per the Utah Fire Code Act, "R" occupancies built in accordance with the International Residential Code may require fire suppression systems if any of the following apply:

R Occupancy Built Under IRC Requirements

Structure is located in Urban-Wildland Interface Area	May Require Fire Suppression
Public Water Distribution System With Hydrants Does Not Exist	May Require Fire Suppression
Single Access Road With Grade Greater Than 10% For More Than 500 Linear Feet	May Require Fire Suppression
Structure Is Larger Than 10,000 Square Feet (Total Floor Area Of All Floor Levels Within Exterior Walls Of Dwelling Unit)	May Require Fire Suppression
Structure Is Larger Than Double The Average Size Of The Unsprinklered Homes In The Subdivision (Total Floor Area Of All Floor Levels Within Exterior Walls Of Dwelling Unit).	May Require Fire Suppression

Weber Fire District strongly encourages the builder/owner to provide a fire suppression system to protect the lives and property of the occupants. These systems have been proven to provide effective lifesaving functions. For more information, please contact the Fire Prevention Division at 801-782-3580.

- S6. SEPERATE SUBMITAL NOTICE: Fire suppression systems and fire alarm systems require a separate submittal. A permit shall be applied for before any installation of either fire suppression system or fire alarm system. The permit shall be on the job site and be available for review by any inspector. The APPROVED STAMPED set of plans shall also be on the job site and available for review by any inspector. If there is no permit and/or approved stamped plans on the job site, there will be a Stop Work Order issued until both are on the job site. Submit plans at Weber Fire District, 2023 W. 1300 N. Farr West. (See IFC section 901.2 and 907.1.1).



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- S7. Exterior Notification Device: There shall be a weather proof horn/strobe device located on the street side of the building as approved by the Fire Prevention Division (coordinate with fire inspector regarding location). Such sprinkler waterflow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. (See IFC 903.4.2)

Fire Department Access:

- S8. Provide a temporary address marker at the building site during construction. The address numbers, whether on the building or the sign, shall be legible font. (See IFC 505.1) (See IFC 505.1).
- S9. Flag Lot Access and hydrant(s): Flag lots pose difficulties for the fire department for both access and water supply. As such they shall comply with:
- a. Access: Flag lots must meet the access requirements for "Fire Access via Driveways".
 - b. Hydrant(s): Hydrants shall be provided within 600 feet of the home (measured as the fire vehicle would drive- IFC 507.5.1- Exception 1).
 - i. Where waterlines capable of supporting a hydrant are available to connect to, a hydrant shall be provided within 600 feet of the building (measured as the fire vehicle would drive).
 - ii. In cases where a hydrant cannot be provided due to a lack of supporting waterlines, the owner/developer may propose to provide the home with a residential fire suppression system. The owner/developer shall request this exception in writing. The request is subject to review and approval by the Fire Marshal. (See IFC 507.5.1- Exception 1 & 2).
- S10. Fire Access via Driveways: Driveways serving no more than 5 residences shall have a minimum clear width of 16 feet with a minimum of 12 feet of drive-able surface (measured from face of curb to face of curb) and a vertical clearance of 13 foot 6 inches and shall support a 75,000-pound load. Driveways more than 150 feet shall be provided with turn-arounds. Driveways exceeding 200 feet in length and less than 20 feet in width shall be provided with turnouts in addition to turnarounds. (See driveways- 2006 Wildland Urban Interface Code used as a reference for residential driveway requirements exceeding 150 feet in length). Roads and driveways shall also comply with City/County standards as applicable. *In cases of differing requirements, contact the Fire Marshal for clarification.*

Building Comments:

- S11. There shall be an address on the building or on a sign visible from the street. If the address is on a sign-monument the sign-monument shall meet the requirements of the appropriate city/county planning department. The address numbers, whether on the building or the sign, shall be Arabic font with a minimum of 4" (four inches) in height with a .5" (half inch) stroke and be in contrasting colors from the background. All suites shall have number/letter designation on the doors meeting the same size requirements and contrasting color. (See IFC 505.1)
- G1. Roads and bridges shall be designed, constructed, and maintained to support an imposed load of 75,000 lbs. (See IFC section D102.1)



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G2. All roads shall be designed, constructed, surfaced, and maintained to provide an all-weather driving surface. All weather surface may include road-base material however, the roadway must be maintained open and accessible year-round (See IFC section 503.2.3 and D102.1).

This review was completed using the currently adopted Utah State Fire Code (International Fire Code) and any applicable local resolutions or ordinances.

Every effort has been made to provide a complete and thorough review of these plans. This review DOES NOT relieve the owner, contractor and/or developer from compliance with all applicable codes, and standards.

Any change or revision of this plan will render this review void and will require submittal of the new, or revised, layout for fire department review. If you have any questions, please contact me at 801-782-3580.

Reviewed By:
David Reed, Fire Marshal
Weber Fire District
801-782-3580