



Mercer Island Fire Marshal Office
3030 78th Avenue SE
Mercer Island, WA 98040
(206) 275-7966

Permit No: [ ]

FIRE PLAN REVIEW

Address: \_\_\_\_\_

1. PROJECT TYPE

- NSF ADU/DADU
Alteration or Addition

Valuation Ratio (based on Fire Area Worksheet

Proposed Work / Assessed Value = %

- Exempt structure - detached garage or similar non living space structure
Less than 10% (fire review not required)
10 - 49% (monitored Household Fire Alarm System per NFPA 72 Chapter 29, if fire deficiency)
50% or greater (substantial alteration)

2. FIRE AREA

- Fire Area = square feet (sf) (from Fire Area Worksheet)
≥ 10000 SF Requires a NFPA 13R or 13 sprinkler system (use 13R sprinkler system as base)

3. FIRE FLOW

Hydrant ID# PSI

Flow Required GPM @ 20 psi (from IFC table B105.1)

With Sprinkler Reduction GPM @ 20 psi (50% reduction)

Available GPM @ 20 psi (Max of 500gpm for a 2-port hydrant)

- Does not meet fire flow even with sprinkler reduction (use 13R sprinkler system as base)
Does not meet fire flow due to no sprinkler reduction credit.

4. HYDRANTS

Number Required: Spacing

- Number Available: Spacing

- Distance from all building points to hydrant (300' Max, 600' W/ Sprinklers)

## 5. FIRE ACCESS ROADS

---

---

- Distance from all points to access road (150'). \_\_\_\_\_
- Length provided: \_\_\_\_\_ ft. (Over 150' from access road must provide turn-around)
- Width Required:      < 500' = 20'                      ≥ 500' = 26'
- Width provided:  ≥ 16'     12' - 16'  
 ≤ 12' Code Alternate Required
- Radius provided (minimum 28' inside/45' outside): \_\_\_\_\_ ft.
- Turnaround provided:  None     Sub Standard     Standard             N/A
- Grade Provided:  < 10'     < 15'     < 20'    Current \_\_\_\_\_ %  
 > 20' Code Alternate Required

## 6. FIRE REQUIREMENT

---

---

- No Fire Requirement
- Monitored Household Fire Alarm
- 13D Fire Sprinkler System
- 13R Fire Sprinkler System
- Code Alternate Proposal

Reviewer Comments