



Date: August 9, 2022
To: City of Mercer Island – Fire Department
From: Brad Sturman
Re: Mounger Residence
4006 E. Mercer Way
Mercer Island, WA 98040
Permit # 2205-038

Subj.: FIRE CODE ALTERNATE SUBMITTAL

This letter is submitted as our request for a fire code alternate related to the permit review for the New Residence.

We have a number of fire code deficiencies based on the fire department review and we propose the following basic and code alternates.

1. Distance from Access point to rear of house exceeds 150'

Code Alt

Upgrade to a NFPA 13R PLUS fire sprinkler system.

2. No-Turn around.

Code Alt.

The 40th Avenue road terminates at the end of the 4006 property. The project proposes to replace the larger concrete area at the end of road with new concrete due to the loose and cracked condition of the material.

3. Grade exceeds 10% (must be under 20%)- Grades over 15% must be raked concrete.

Code Alt.

The existing driveway (40th street) has high pressure gas lines underneath it. These are the main lines that feed mercer island through the lake originating on the Bellevue side.

The project calls for some minor regrading at the driveway but we are not totally rebuilding the entire road. Any new areas of concrete in the sloped zones will have a raked finish for safety.



4. Roadway Width less than 12' (under 20') Code Alt Required.

Code Alt.

The roadway width will stay the same. The end of the roadway is wider and will receive new level concrete.

5. Distance between fire department access and residence exceeds 250'

Code Alt.

Install a "household Fire Alarm System" per NFPA 72 Chapter 29.

Code Alt.

Install 1-hr rated gypsum in all areas.

Code Alt.

Provide solid core doors.

Code Alt.

Provide standing seam metal roofing Class – A fire rated.

**Sincerely,
Sturman Architects. Brad Sturman.**