



Oregon State University

Hatfield

# M I S S I O N

Collaborative Research Partnerships

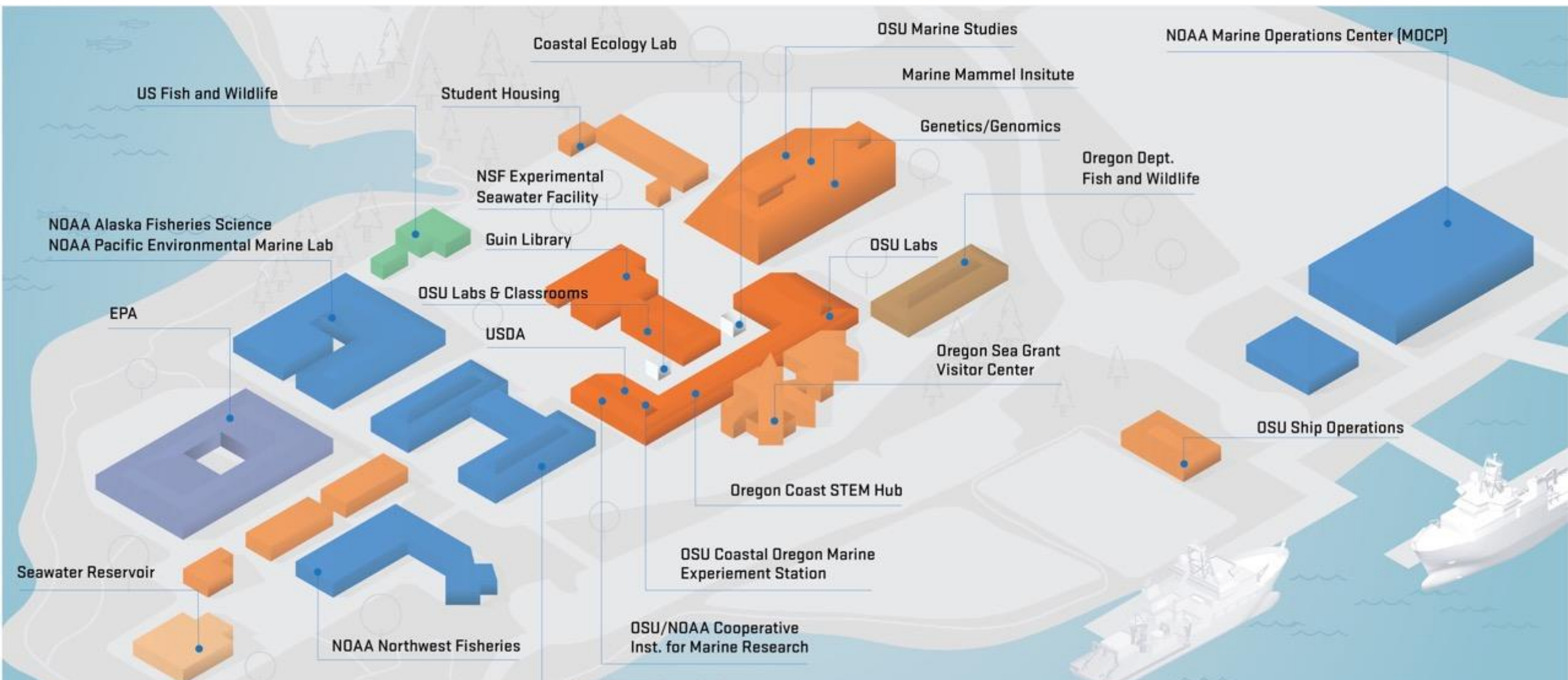
---

As OSU's campus for **research, education,** and **outreach** in marine and coastal sciences, and through its partnerships, HMSC improves scientific understanding of marine systems, coastal processes and resources, and applies this knowledge to social, economic, and environmental issues.



Oregon State University  
Hatfield

# Partners @ Hatfield



# EXPANSION

I n f r a s t r u c t u r e   G r o w t h



Oregon State University  
**Hatfield**

# Marine Studies Building



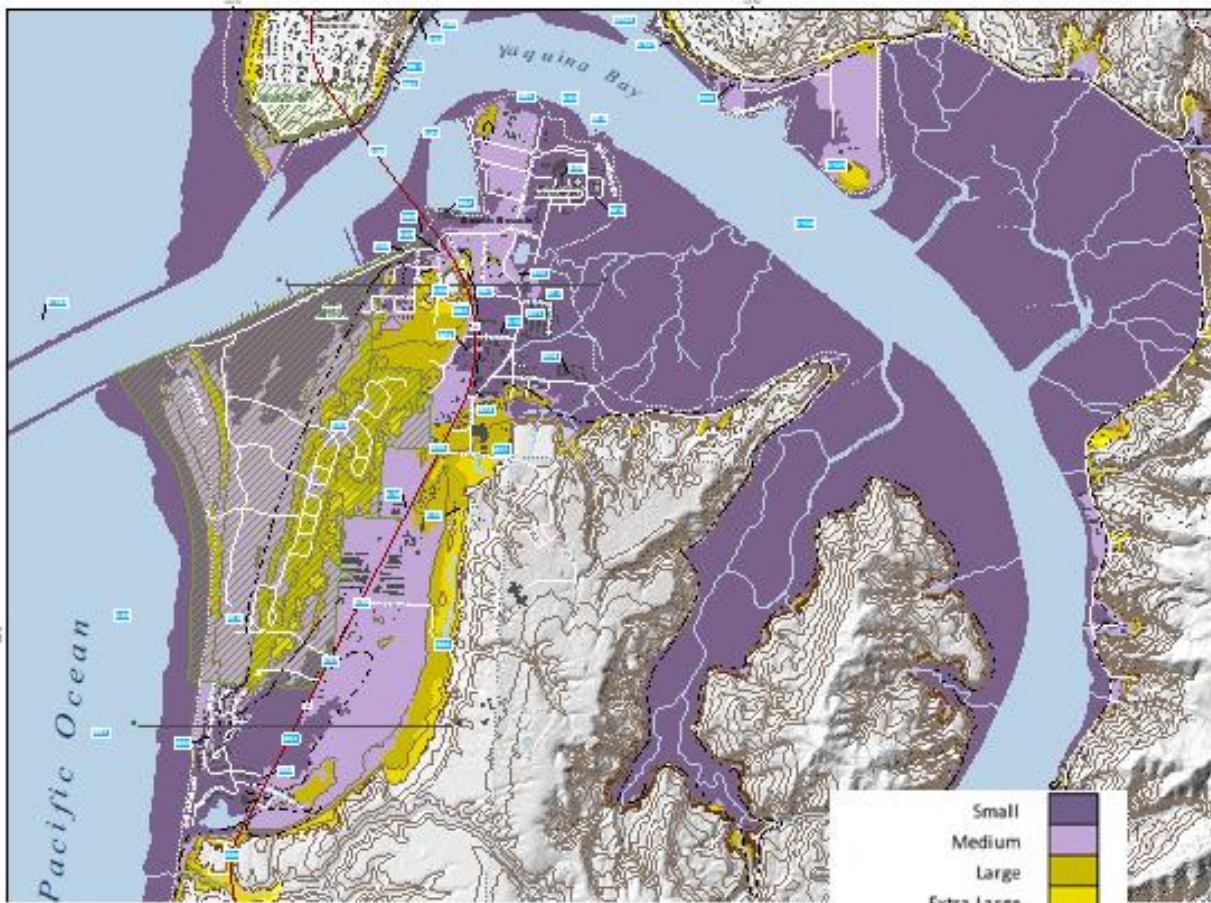
# Marine Studies Building



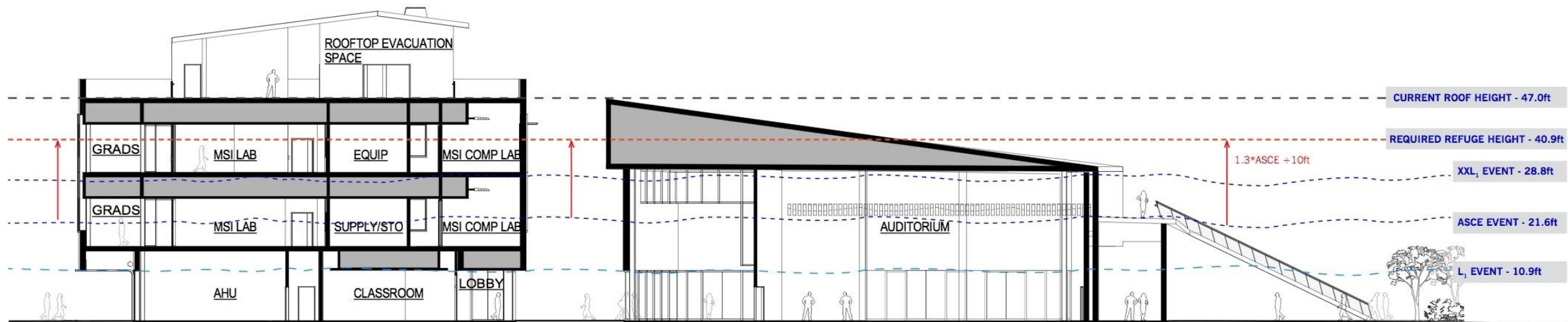
# Tsunami Inundation Zone

Local Source (Cascadia Subduction Zone) Tsunami Inundation Map  
Newport South, Oregon

Tsunami Inundation Map Line 07  
Map 1

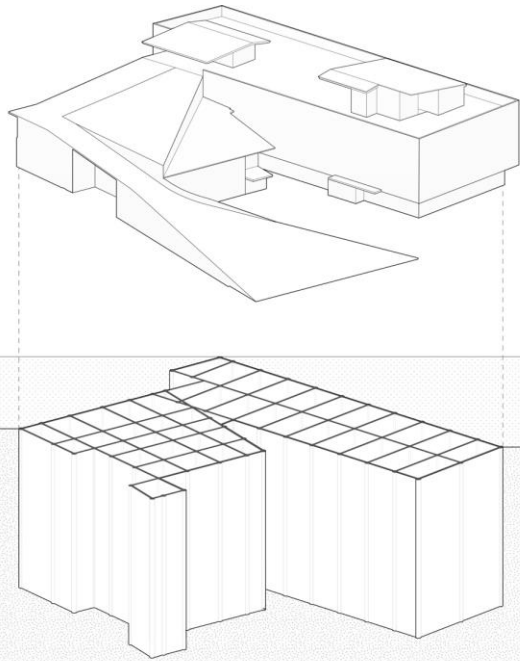


# Vertical Evacuation Structure: Water line

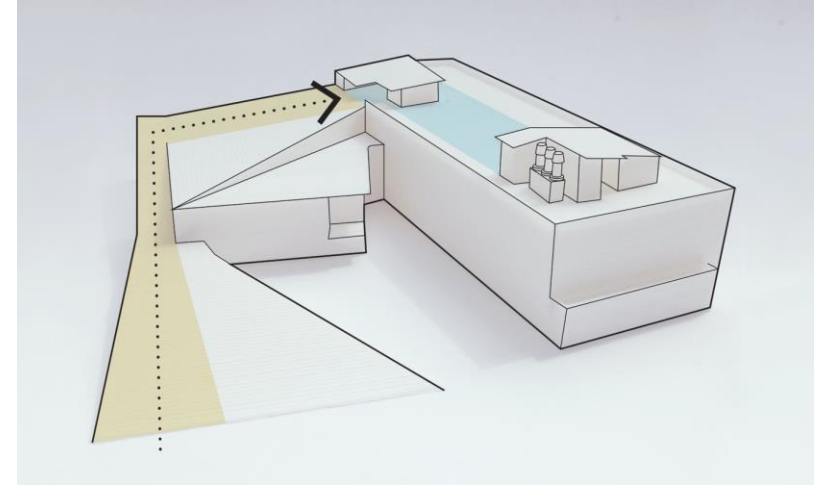




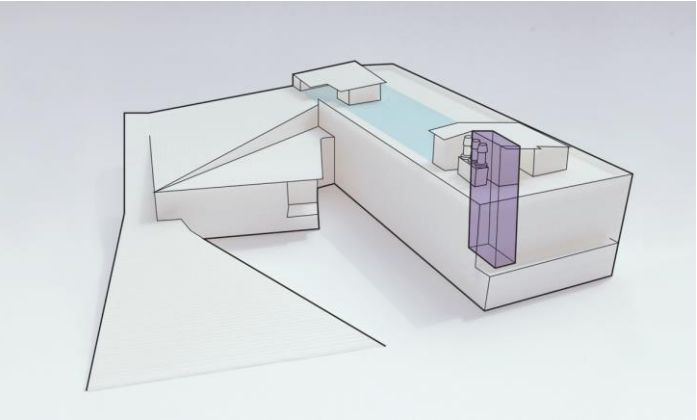
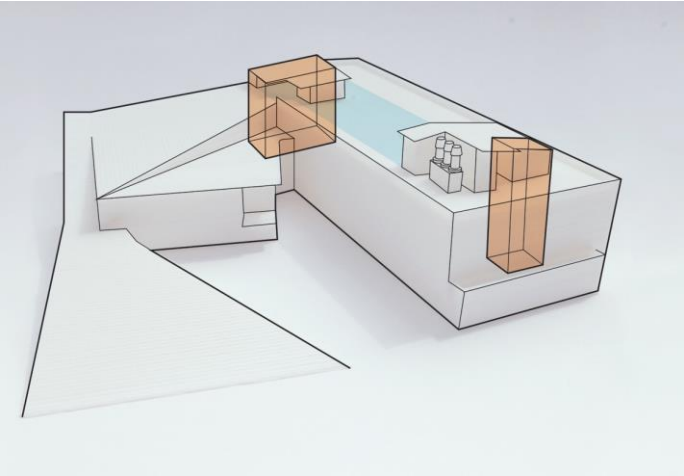
# Marine Studies Building: Deep Soil Mixing



# Marine Studies Building: Ramp



# Marine Studies Building: Shear Walls/Cores



# Marine Studies Building: Anchors



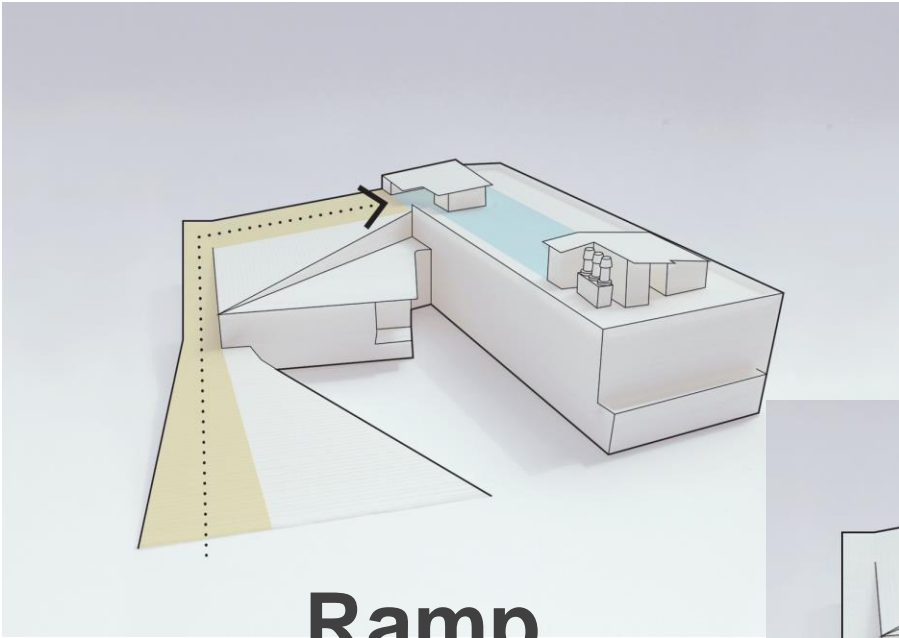
# Marine Studies Building: Wall construction



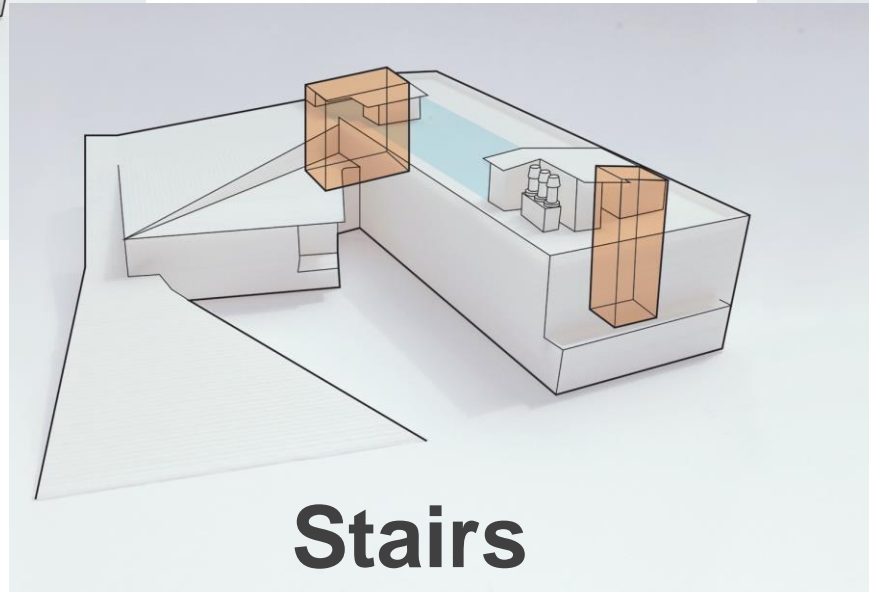
# Marine Studies Building: Crumple zone



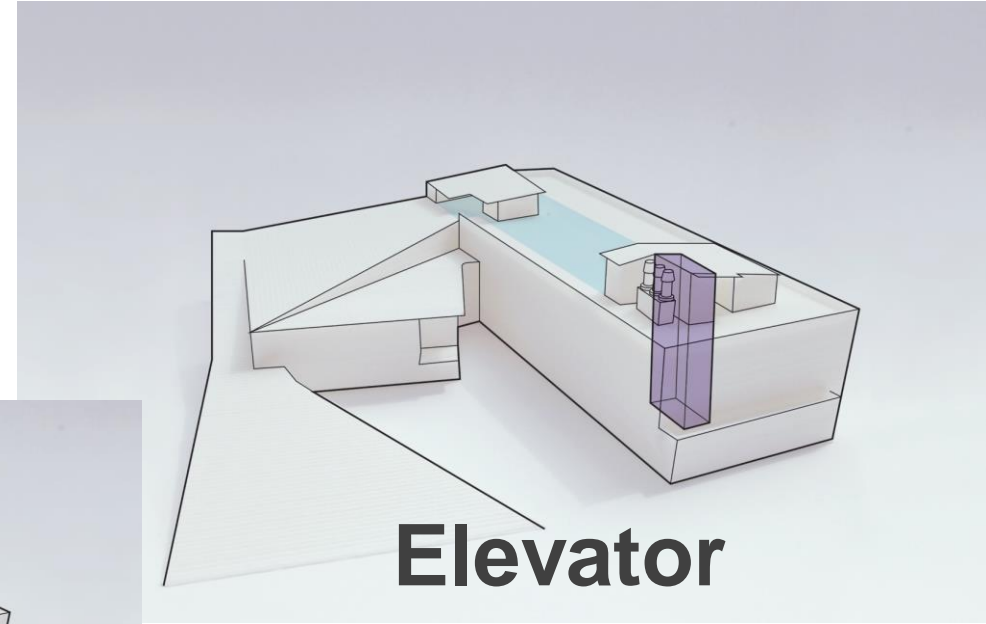
# Vertical Evacuation: 3 Roof Access Points



**Ramp**



**Stairs**



**Elevator**

# Vertical Evacuation Structure: Cache

**Cache Supplies and rooftop assembly:  
920 people for 2 days**

**Emergency Command Procedures  
Communication  
First Aid  
Water  
Food  
Sanitation  
Shelter  
Lighting  
Personal Warmth  
Animal Care**





# Challenges

## Critics blast Oregon repeal of tsunami-zone building ban

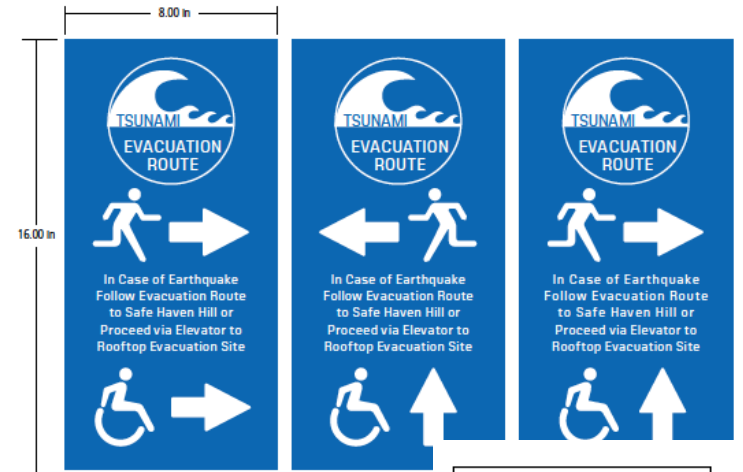
By ANDREW SELSKY August 16, 2019



This is thanks to a \$62 million “vertical evacuation structure” that Oregon State University recently completed at the Hatfield Center. Some see these engineering feats as the best defense against the wave. Others say they promote bad behavior by legitimizing development in the inundation zone.

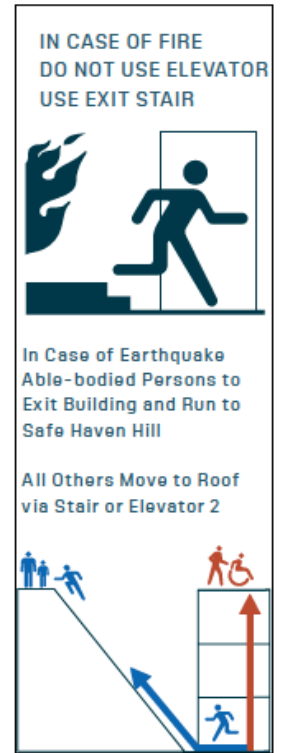
## Quakenami! Why the Pacific Northwest Is Doomed

Monster earthquakes are going off all around the Pacific Ocean’s Ring of Fire. Is the West Coast of North America next?\* And can you surf a tsunami?\*\* Join us on a footnoted foray into the terrifying world of megaquakes, tidal waves, and the fine art of being your own Jesus. \*YES \*\*NO



Site Sign Location 1  
(Single-Sided Sign)

Site Sign Location  
Side A



Questions?

---



Oregon State University  
Hatfield