



**CHEHALIS BASIN STRATEGY  
COMMUNITY FLOOD ASSISTANCE & RESILIENCE (CFAR) PROGRAM**

**CHEHALIS FLOOD AUTHORITY**

January 21, 2021

# ELIGIBLE ACTIONS

- Technical support (mapping, etc.)
- Residential and commercial properties
- Acquisition, relocation of buildings, and/or clearance of a parcel, with deed restriction
- Elevation, dry floodproofing, other retrofitting measures, with non-conversion agreement
- Channel migration zone easements, small habitat friendly, permittable bank protection
- Not eligible: Properties to be protected by another Strategy flood damage reduction project
- Not eligible for retrofitting: accessory structures and dilapidated buildings



# ASSUMPTIONS

- Program is both preventative and corrective
- Projects are voluntary
- Structures that are dilapidated or deemed unfit for human habitation by local codes are not eligible for structure retrofit funding (may be eligible for acquisition funding)
- Accessory structures will not be mitigated, but are eligible for technical assistance
- OCB will monitor and revise the program as needed, with input from property owners, local governments, and the Chehalis Basin Board.
- OCB may establish different criteria for the first year(s) of the program.

# ASSUMPTIONS

- Properties protected by other actions under consideration as part of the Strategy are not priorities for project funding (eligible for technical assistance)
- Property owners commit to maintain flood insurance if a structure remains in the floodplain
- Property owners contribution: funds or in-kind work
- Protection levels will account for future flood levels resulting from climate change
- Consideration of bank stabilization will be part of the next phase (21-23 biennium)
- CFAR funding will address community assets (churches, municipal buildings, etc.) in addition to homes and businesses

# INTERIM SOLICITATION METRICS

- Requests for technical support – 6
- Requests for technical assistance – 16
- Early opportunities
  - Bucoda structure retrofits – 15 potentially interested property owners
  - Aberdeen elevation certificate pilot – 96 structures

# ABERDEEN ELEVATION CERTIFICATE EOP



Elevation project on Young Street in Aberdeen

- **Objective:** To help residents and businesses use elevation data to protect buildings from flood damage and lower flood insurance premiums.
- **Approach:** With the City, we have selected two pilot neighborhoods that will not be protected by the proposed North Shore Levee. The project will include explanatory materials and one-on-one discussions with residents.
  - Phase 1: provide estimated elevation information for buildings in pilot neighborhoods.
  - Phase 2: Complete Elevation Certificates, at owner's request.

# ABERDEEN ELEVATION CERTIFICATE EOP

North Aberdeen



East Aberdeen



# ABERDEEN ELEVATION CERTIFICATE EOP

## POTENTIAL MEASURABLE OUTCOMES

- Was knowledge helpful/useful to residents and businesses in terms of understanding true flood risk?
- Was there an insurance benefit?
- Do residents and businesses implement the recommended flood damage reduction measures?
- Do residents and businesses feel they are better educated about living in a floodplain?



# BUCODA HOME RETROFIT EOP

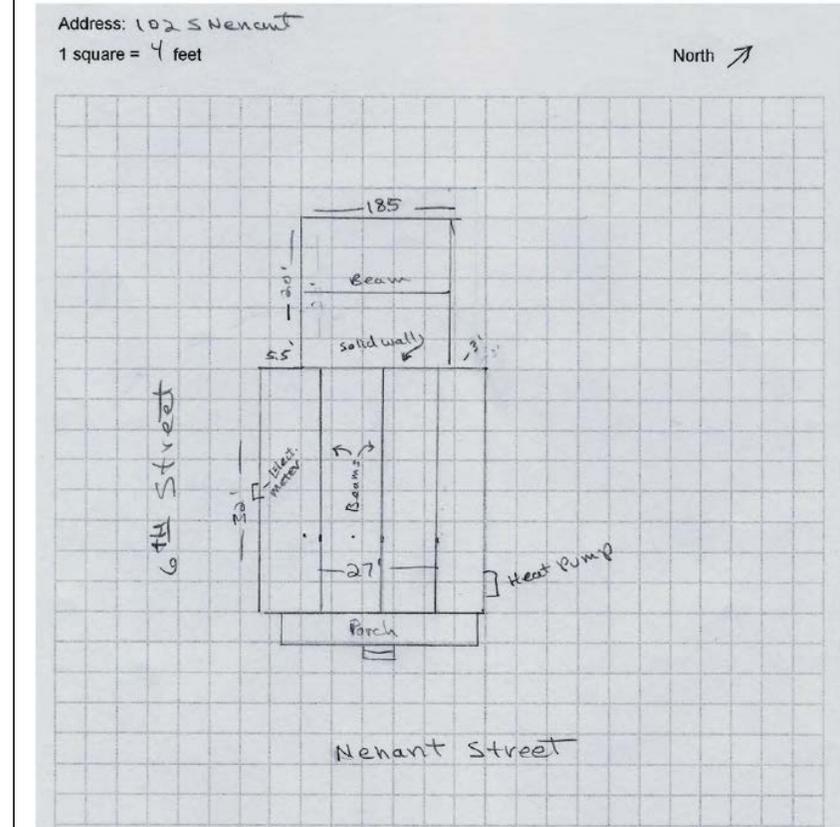
North side



South side



Building Dimensions



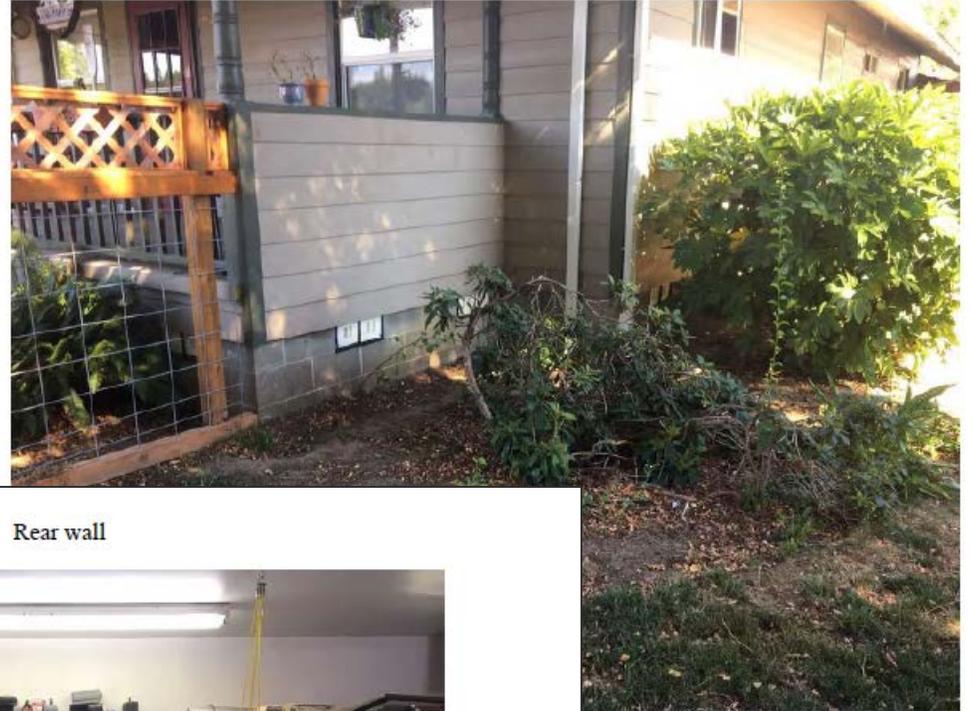
# BUCODA HOME RETROFIT EOP

Front view

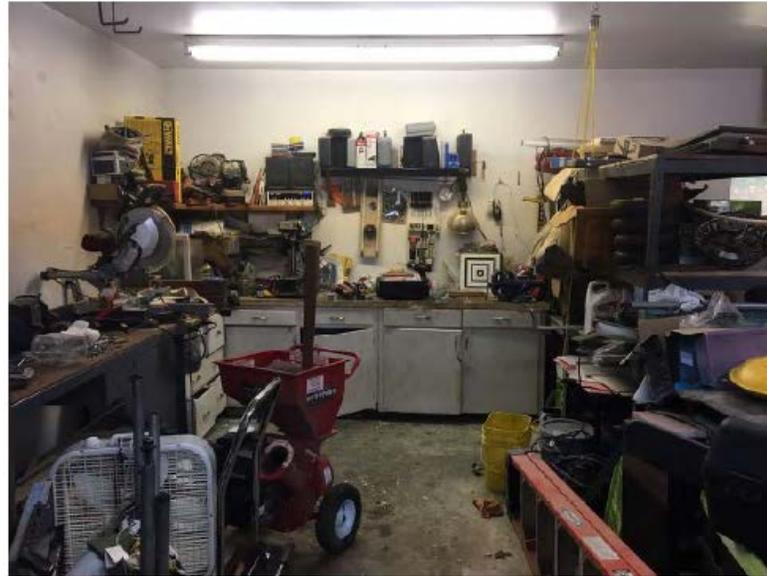


1996 high water line is  $\frac{3}{4}$  way up the white exhaust vent in photo

South side



Rear wall



The garage is 2 feet below the floor of the main building. I have drywall and minimal insulation. The outlets are above the counters.

# BENEFIT TO COMMUNITIES AND TRIBES

- Technical support
  - Support identification of projects and opportunities
  - Continuing education
  - Advice to property owners
- Capacity/Reduced workload
- Proactive
- Reduced emergency response and rescue needs/costs
- Increased awareness or understanding of risks related to channel erosion or migration and floods, especially under future climate conditions
- Community Rating System (CRS) points

# BENEFIT TO PROPERTY OWNERS

- Reduced flood insurance premiums
- Reduced damage to structures and contents during floods
- Technical assistance - identify options and actions landowners can take on their own, help develop most cost effective project for CFAR funding
- Increased awareness or understanding of risks related to channel erosion or migration and floods, especially under future climate conditions
- Advice on flood preparedness

# QUESTIONS

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