## SINGLE FAMILY RESIDENCE PERMIT APPLICATION PACKET

### CITY OF

#### Oak Harbor

WHIDBÉY ISLAND, WASHINGTON

### SUBMITTAL FORMS INDEX

<table>
<thead>
<tr>
<th>Form</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFR Submittal Summary</td>
<td>2</td>
</tr>
<tr>
<td>Basic SFR Checklist</td>
<td>3</td>
</tr>
<tr>
<td>SFR Submittal Requirements</td>
<td>4</td>
</tr>
<tr>
<td>SFR Permit Application</td>
<td>8</td>
</tr>
<tr>
<td>WSEC Requirements</td>
<td>10</td>
</tr>
<tr>
<td>SFR Cross Connection Survey</td>
<td>12</td>
</tr>
</tbody>
</table>
Single Family Residence Submittal Specifications Summary
In order to submit a building permit for a single family residence, applicants will be required to provide a fully completed submittal packet to the Development Services Department’s Permit Counter. A Development Services staff member will go over the plans and application materials to make sure that the required documentation and information are received.
No effort will be made to evaluate the accuracy of the information provided. It will be the applicant’s responsibility to ensure the submittal is in compliance with the provisions of the Oak Harbor Municipal Code (OHMC), Engineering Standards, and other applicable codes and statutes.

Completed Application
The single family residence building permit application shall be submitted and completed in full. The Island County Assessor’s Office is the governmental body that assigns parcel numbers. Please contact the Assessor’s Office for parcel number information. A project address will be assigned at submittal if one does not already exist for the property.

Contractor/Contact Information
Applicants shall provide a primary contact for the project as well as contractor license information if using a contractor. A City of Oak Harbor business license is required for all contractors being used. Business license applications must be submitted and approved by the Finance Department prior to your contractors performing any work on the project. Please contact Finance Department for more information.

Construction Plans
All documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of the codes, relevant laws, ordinances, rules and regulations, as determined by the appropriate code official.
Applicants shall provide two complete sets of construction plans (24”x36”) signed and stamped by an Washington State registered design professional (if applicable), verifying that each component of the submittal is in compliance with all applicable building and design codes. Plans must be drawn to scale (¼” = 1’) and include the following plan pages and information:
Use this checklist to ensure that all necessary information is provided for review of your project.

**Requirements for Submittal**

- [ ] Two (2) completed Building Permit Applications (Sheet 02)
- [ ] Two (2) accurate fully dimensioned plot plans
- [ ] Two (2) sets of construction drawings
- [ ] Two (2) sets of engineered drawings and calculations (If required)
- [ ] Two (2) completed Energy Code applications
- [ ] Verification or photocopy of current Washington State Contractor License
- [ ] Cross-Connection Control survey application (Sheet 22)

**APPLICATIONS ARE ONLY CONSIDERED COMPLETE IF ALL INFORMATION REQUESTED ON FORMS IS FILLED IN.**
A. FEES DUE AT TIME OF PERMIT APPLICATION

The following non-refundable fees will be collected at the time of application for all residential projects.

1. Building Plan Check Fee

B. CODES

The City of Oak Harbor currently enforces the following:

**National Codes**

1. International Building Code (IBC)
2. International Residential Code (IRC)
3. International Mechanical Code (IMC)
4. International Fuel Gas Code (IFGC)
5. International Fire Code (IFC)
6. Uniform Plumbing Code (UPC)
7. International Property Maintenance Code (IPMC)

**Washington State Amendments**

1. WAC 51-50 Washington State Building Code
2. WAC 51-51 Washington State Residential Code
3. WAC 51-52 Washington State Mechanical Code
4. WAC 51-54 Washington State Fire Code
5. WAC 51-56 Washington State Plumbing Code
7. WAC 51-11C WSEC Commercial Provisions
8. WAC 296-46B Electrical Safety Standards, Administration, and Installation

**Oak Harbor Local Amendments and Regulations**

1. Oak Harbor Municipal Code Title 17 Buildings
   - Chapter 17.05 International Building Code
   - Chapter 17.06 International Residential Code
   - Chapter 17.10 International Mechanical Code
   - Chapter 17.12 Uniform Plumbing Code
   - Chapter 17.14 Washington State Energy Code
   - Chapter 17.22 International Property Maintenance Code
   - Chapter 8.03 International Fire Code
   - Chapter 8.05 Fire Protection Features in Buildings
   - Chapter 8.12 Alarm systems
C. CITY OF OAK HARBOR DESIGN REQUIREMENTS

Design Wind Speed: 85 miles per hour (IRC Figure R301.2(4))
Ground Snow Load: 15 pounds per square foot (IRC Figure 301.2(5))
Rain or Snow Surcharge: 5 psf added to flat roofs if slope is <1/2 per foot
Seismic Zone: D2 (IRC 301.2(2))
Rainfall: 2 inches per hour for roof drainage design.
Frost Line Depth: 12 inches
Soil Bearing Capacity: 1,500 psf unless a Geo-Technical Report is provided.

D. PLANS AND DRAWINGS

Submit two (2) complete sets of drawings and plans. Drawings and plans must be submitted on minimum 18" X 24" or maximum 30" X 42" paper. All sheets are to be the same size and sequentially labeled. Plans are required to be clearly legible, with scaled dimensions, in indelible ink, blue line, or other professional media. Plans will not be accepted that are marked preliminary or not for construction, that have red lines, cut and paste details or those that have been altered after the design professional has signed the plans.

Please Note: A separate submittal of plans is required for each building or structure.

E. SITE PLAN – REQUIRED WITH ALL SUBMITTALS

1. Two (2) complete sets of plans on 8.5" X 11" paper which reflect all of the information noted in the Site Improvement and Drainage Plan Requirements for Residential Construction.

F. FOUNDATION PLAN (Minimum ¼” Scale)

1. Show north direction
2. Indicate the Frontage Street, (and side street if corner lot).
3. Show the location and dimension to all property lines.
4. Show the location for existing and/or proposed easements
5. Provide the scale for the drawing.
6. Show outline of foundation with section cuts and dimensions; include maximum wall heights and all connections.
7. Provide the location and size of all beams, posts, interior footings and thickened footings within slabs with their dimensions and connections.
8. Provide detail of step down foundation and footings with required reinforcing steel.
9. Show spacing of anchor bolts, location, and type of hold down fasteners to the foundation.
10. Retaining walls.
11. Show the location and size of all crawl space vents and the crawl space access with size and location.
12. Show footing depth below grade and show the clearance between grade and sill plate.
13. Show the floor joist size, spacing, direction, support, connections and blocking.
14. Show all floor insulation.
15. Label any space within the foundation (i.e. basement, garage, storage room, ect.)

Note! Oak Harbor is in seismic design category D2 which requires that foundations with stem walls have a minimum #4 rebar at top and minimum #4 rebar at bottom of footing.
Note! All footings are to be below root level and entrenched below grade of interior crawl area. Crawl areas shall be provided with drainage and connected to foundation drains.

G. FLOOR PLAN (Minimum ¼” Scale)

1. Indicate the dimensions of all areas and the use of each room. Include fixed cabinet, counter or island facilities.
2. Show all roof, floor or deck joist size, spacing, direction, support, connections. Blocking, etc.
3. Show the location of exhaust fans, smoke detectors, hot water heater, heating units, plumbing fixtures and any other mechanical equipment.
4. Show the location of the attic and/or crawl space access.
5. Include all exterior decks on your floor plan, with necessary structural details and attachment to the house.

Note! Smoke detectors are required at each level of the home and in all rooms that can be used for sleeping. All smoke alarms shall be listed and installed in accordance with the IRC and provisions of NFPA 72.

H. ARCHITECTURAL CROSS SECTIONS & DETAILS (Minimum ¼” Scale)

1. Show a typical roof section with all materials labeled; indicate size and spacing of all members; include all dimensions, venting, insulation and connections
2. Show a typical foundation and floor section with all material labeled; indicate size and spacing of all members; include all dimensions, venting, insulation and connections.
3. Show a typical wall section with all materials labeled; indicate size and spacing of all members and insulation values.
4. Show all connection details, including post-beam, post-footing, collar tie, etc.
5. Provide the dimensions for all stairs, with details showing rise, run, headroom and handrails. Guards require intermediate rails to be less than 40” apart; handrails are to be 34” to 38” from nose of the tread and to be returned. Show any fire blocking, landing sizes. Specify one-hour fire resistive construction for any usable space under the stairs.
6. Show a section detail for any fireplace, including the hearth and hearth extension. Include dimensions, materials, clearance from combustibles, height above roof, reinforcing, seismic anchorage and foundation details.

I. STRUCTURAL NOTES

1. Specify all design load values, including dead, live snow, wind, lateral retaining wall pressures and soil bearing values.
2. Specify minimum design concrete strength, concrete sack mix and reinforcing bar grade.
3. Specify the grade and species of all framing lumber.
4. Specify the combination symbol (strength) of all GLU-LAM beams.
5. Specify all metal connectors, including joist hangers, clips, post caps, post bases, ect.
6. Provide details showing the complete load path transfer at roof perimeter, interior shear walls, cantilevered floors, off-set shear walls and ceiling diaphragm to shear walls (if used).
7. Provide a shear wall schedule noting nail spacing, blocking, bolts, top and bottom plat nailing.
8. Locate all hold down straps on the drawings.
J. STRUCTURAL CALCULATIONS

1. Provide two (2) sets of structural calculations if prepared by an engineer or architect registered with the State of Washington. (Not required if using Prescriptive Design Approach from the IRC/IBC.)

K. ELEVATIONS

1. Show elevations views of each side of the structure; provide finished floor level for each floor.
2. Show existing and proposed grades.
3. Show the maximum building height.
4. Show the maximum site slope.
5. Show all roof overhangs and any chimney clearances from the roof.
6. Indicate the pitch of the roof.

L. DOORS & WINDOWS

1. Show size and type of all doors.
2. Show the door size, type and closure device for doors between the garage and dwelling.
3. Show all window sizes and openable areas.
4. Show all sleeping room egress window locations, sill heights, methods of opening, dimension of openable area and clear open space.
5. Show size and type of all skylights.

M. WASHINGTON STATE ENERGY CODE

1. Provide one (1) completed copies of the 2012 WSEC Residential Prescriptive Compliance Form.
2. Show the insulation R values on the floor plan drawings and glazing class of all windows and skylights.

To ensure that you have the most current information, please contact the City of Oak Harbor Building Department (360) 279-4510.

Applications delivered by mail will not be accepted.

Incomplete applications will not be accepted.

I acknowledge that all items designated as submittal requirements must accompany my Building Permit Application to be considered a complete submittal.

Signature: _____________________________________________ Date: ______________
Owner/Owner’s Representative

Company: ________________________________________________ Phone: ______________
### Project Information

Site Address: 

Project Description: 

Project Valuation: ______________________________ Parcel Number: ______________________________

Legal Description: 

### Permit Type (check all that apply)

- [ ] New SFR Residential
- [ ] SFR Alteration
- [ ] SFR Addition
- [ ] SFR Mechanical
- [ ] SFR Plumbing
- [ ] New Commercial
- [ ] Commercial Alteration
- [ ] Commercial Addition
- [ ] Commercial Mechanical
- [ ] Tenant Improvement
- [ ] Manufactured Home
- [ ] Multi-Family
- [ ] Sign
- [ ] Commercial Plumbing
- [ ] Commercial Mechanical
- [ ] Accessory Building
- [ ] Agricultural Building
- [ ] Demolition
- [ ] Irrigation System
- [ ] Other

### Applicant Information

Name: _______________________________ Phone: _______________________________

Address: _______________________________ City/St/Zip: _______________________________

Contact: _______________________________ Phone: _______________________________

Cell: _______________________________ Email: _______________________________

### Property Owner

Name: _______________________________ Phone: _______________________________

Address: _______________________________ City/St/Zip: _______________________________

Contact: _______________________________ Phone: _______________________________

Cell: _______________________________ Email: _______________________________

### Contractor Information

Name: _______________________________ Phone: _______________________________

Address: _______________________________ City/St/Zip: _______________________________

Contact: _______________________________ Phone: _______________________________

Cell: _______________________________ Email: _______________________________

### Design Professional

Name: _______________________________ Phone: _______________________________

Address: _______________________________ City/St/Zip: _______________________________

Contact: _______________________________ Phone: _______________________________

Cell: _______________________________ Email: _______________________________
**Plumbing**

Please indicate the quantity of fixtures where applicable

<table>
<thead>
<tr>
<th>ITEM</th>
<th>FEE</th>
<th>QTY</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Permit Fee</td>
<td>$20.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bar Sink</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bathtub or Bath/shwr combo</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clothes Washer</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dishwasher</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hose Bibb</td>
<td>$5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen Sink</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laundry Sink</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lavatory Sink</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shower (stand-alone)</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toilet</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacuum Breakers</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Heater (Ele only)</td>
<td>$12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traps Other than above items</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backflow Device 20 or less</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backflow Device 20 or more</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lawn Irrigation Zones Ea.</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alteration or Repair of Drainage Piping, Ea Fixture</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Misc. Equip</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical**

Please indicate the quantity of units where applicable

<table>
<thead>
<tr>
<th>ITEM</th>
<th>FEE</th>
<th>QTY</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Permit Fee</td>
<td>$23.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furnace i including 100K BTU</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furnace i over 100K BTU</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit Heater</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appliance Vents</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhaust Hood</td>
<td>$11.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clothes Dryer</td>
<td>$11.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boilers- including 100K BTU</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiler i Over 100K BTU</td>
<td>$27.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Piping (1-5 outlets)</td>
<td>$5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Piping Outlet over 5</td>
<td>$1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fireplace Insert</td>
<td>$25.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fireplace Free Standing</td>
<td>$35.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HVAC including 10K CFM</td>
<td>$11.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HVAC over 10K CFM</td>
<td>$18.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furnace (over 100K)</td>
<td>$18.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incinerators (Com only)</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporate Coolers</td>
<td>$11.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repair &amp; Alter of Mech. Equip</td>
<td>14.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC/Heat Pump</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhaust Vents</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This permit becomes null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work is commenced.

I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will complied with whether specified herein or not, the granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or the performance of construction.

______________________________________________________
Print Name

_______________________________
Signature of Owner or Authorized Agent

______________________________________________________
Date

<table>
<thead>
<tr>
<th>Use Zone</th>
<th>Lot Area</th>
<th>Vacant Site</th>
<th>Lot Coverage</th>
<th>Flood zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Setback</td>
<td>Side Setback</td>
<td>Rear Setback</td>
<td>Design Review</td>
<td>Critical Areas</td>
</tr>
<tr>
<td>Occupancy Group</td>
<td>Type of Construction</td>
<td>No of Dwelling Units</td>
<td>Sq Ft Garage</td>
<td>Sq FT Carport</td>
</tr>
<tr>
<td>SQ FT Floor #1</td>
<td>SQ FT Floor #2</td>
<td>SQ FT Floor #3</td>
<td>Sq FT Deck</td>
<td></td>
</tr>
</tbody>
</table>
Prescriptive Energy Code Compliance for Single Family and Duplex Housing: Marine Zone 4

This project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. In addition, based on the size of the structure, the appropriate numbers of additional credits are checked as chosen by the permit applicant.

### Insulation and Fenestration Requirements by Component \(^a\)

<table>
<thead>
<tr>
<th>Climate Zone Marine 4</th>
<th>R-Value (^a)</th>
<th>U-Factor (^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fenestration U-Factor (^b)</strong></td>
<td>0.30</td>
<td>0.30</td>
</tr>
<tr>
<td><strong>Skylight U-Factor (^b)</strong></td>
<td>0.50</td>
<td>0.50</td>
</tr>
<tr>
<td><strong>Glazed Fenestration SHCC (^b,e)</strong></td>
<td>NR</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Ceiling R-Value (^f)</strong></td>
<td>49 (^f)</td>
<td>0.026</td>
</tr>
<tr>
<td><strong>Wood Frame Wall R-Value (^g,k,l)</strong></td>
<td>21 int.</td>
<td>0.056</td>
</tr>
<tr>
<td><strong>Mass Wall R-Value (^f)</strong></td>
<td>21/21 (^h)</td>
<td>0.056</td>
</tr>
<tr>
<td><strong>Floor R-Value</strong></td>
<td>30 (^g)</td>
<td>0.029</td>
</tr>
<tr>
<td><strong>Below Grade Wall R-Value (^c,k)</strong></td>
<td>10/15/21 int + TB</td>
<td>0.042</td>
</tr>
<tr>
<td><strong>Slab R-Value &amp; Depth (^d)</strong></td>
<td>10, 2ft</td>
<td>n/a</td>
</tr>
</tbody>
</table>

See reverse side of this sheet for WSEC table R402.1.1 footnotes

### Table 406.2 Energy Credits Total of 1 Credit Required

<table>
<thead>
<tr>
<th>Opt.</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>Efficient Building Envelope 1a</td>
<td>0.5</td>
</tr>
<tr>
<td>1b</td>
<td>Efficient Building Envelope 1b</td>
<td>1.0</td>
</tr>
<tr>
<td>1c</td>
<td>Efficient Building Envelope 1c</td>
<td>2.0</td>
</tr>
<tr>
<td>2a</td>
<td>Air Leakage Control and Efficient Ventilation 2a</td>
<td>0.5</td>
</tr>
<tr>
<td>2b</td>
<td>Air Leakage Control and Efficient Ventilation 2b</td>
<td>1.0</td>
</tr>
<tr>
<td>2c</td>
<td>Air Leakage Control and Efficient Ventilation 2c</td>
<td>1.5</td>
</tr>
<tr>
<td>3a</td>
<td>High Efficiency HVAC Equipment 3a</td>
<td>0.5</td>
</tr>
<tr>
<td>3b</td>
<td>High Efficiency HVAC Equipment 3b</td>
<td>1.0</td>
</tr>
<tr>
<td>3c</td>
<td>High Efficiency HVAC Equipment 3c</td>
<td>2.0</td>
</tr>
<tr>
<td>3d</td>
<td>High Efficiency HVAC Equip i ductless Split system Heat Pumps, Zonal control 3d</td>
<td>1.0</td>
</tr>
<tr>
<td>4</td>
<td>High Efficiency HVAC Distribution System</td>
<td>1.0</td>
</tr>
<tr>
<td>5a</td>
<td>Efficient Water Heating 5a</td>
<td>0.5</td>
</tr>
<tr>
<td>5b</td>
<td>Efficient Water Heating 5b</td>
<td>1.5</td>
</tr>
<tr>
<td>6</td>
<td>Renewable Electric Energy</td>
<td>0.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small SFR &lt; 1,500</td>
<td>1.0</td>
</tr>
<tr>
<td>Medium SFR 1,501 to 4,999</td>
<td>1.5</td>
</tr>
<tr>
<td>Large SFR &gt; 5,000</td>
<td>2.5</td>
</tr>
</tbody>
</table>

| Total Credits |
|---------------|---------|

Authorized Representative ___________________________________________ Date ______________________________________

---

Rev 2.2015
For SI: 1 foot = 304.8 mm, ci. = continuous insulation, int. = intermediate framing

a  \( R \)-values are minimums. \( U \)-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compresses \( R \)-value of the insulation from Appendix Table A101.4 shall not be less than the \( R \)-value specified in the table.

b The fenestration \( U \)-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.

c \( R_{0/15/21} + TB \) means \( R_{10} \) continuous insulation on the exterior of the wall, or \( R_{15} \) on the continuous insulation on the interior of the wall, or \( R_{21} \) cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. \( R_{0/15/21} + TB \) shall be permitted to be met with \( R_{13} \) cavity insulation on the interior of the basement wall plus \( R_{5} \) continuous insulation on the interior or exterior of the wall. \( R_{0/13} \) means \( R_{10} \) continuous insulation on the interior or exterior of the home or \( R_{13} \) cavity insulation at the interior of the basement wall. \( R_{TB} \) means thermal break between floor slab and basement wall.

d \( R_{10} \) continuous insulation is required under heated slab or on grade floors. See R402.2.9.1.

e There are no SHGC requirements in the Marine Zone.

f Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1.

g Reserved

h First value is cavity insulation, second is continuous insulation or insulated siding, so \( R_{13} + 5 \) means \( R_{13} \) cavity insulation plus \( R_{5} \) continuous insulation or insulated siding. If structural sheathing covers 40 percent or less of the exterior, continuous insulation \( R \)-value shall be permitted to be reduced by no more than \( R_{3} \) in the locations where structural sheathing is used to maintain a consistent total sheathing thickness.

i The second \( R \)-value applies when more than half the insulation is on the interior of the mass wall.

j For single rafter- or joist- vaulted ceilings, the insulation may be reduce to \( R_{38} \).

k Int. (intermediate framing) denotes standard framing 16 inches on center with headers insulated with a minimum of \( R_{10} \) insulation.

l Log and solid timber walls with a minimum average thickness of 3.5 inches are exempt from this insulation requirement.
The purpose of this questionnaire is to help determine if you have any special plumbing or activities that pose an increased risk of contamination to the city water system. Please fill out the following questionnaire and check the appropriate boxes that apply to your project.

**TYPE OF RESIDENCE:**
- [ ] Single Family
- [ ] Duplex
- [ ] Other: ____________________________________________________

**Project Site Address:** ________________________________________________   **Property Tax Parcel:** ________________________________

**Project Description:** ______________________________________________________
- __________________________________________________________________________
- __________________________________________________________________________
- __________________________________________________________________________
- __________________________________________________________________________

**Owner's Name:** _________________________________________________________

**Owner's Address:** ________________________________________________ Phone: (______) ______ - ______

**Email address:** _________________________________________________________

Place a check next to all equipment and fixtures listed below that are, or will be connected to water for use at your project or residence.

- [ ] Hot tub
- [ ] Swimming Pool
- [ ] Spa/Sauna
- [ ] Air Conditioner
- [ ] Water Treatment/Filtration System
- [ ] Decorative Pond/Fountain
- [ ] Drinking Fountain
- [ ] Lawn Landscape Irrigation w/o chemicals
- [ ] Garbage Disposals
- [ ] Solar Heating Equipment
- [ ] Heat Pumps
- [ ] Heating systems using Water
- [ ] Medical Equipment
- [ ] Private well on property
- [ ] Livestock Watering
- [ ] Photo Developing Equipment
- [ ] Gray water system
- [ ] Water supply to dock or boat moorage
- [ ] Septic Pump
- [ ] None of the Above
- [ ] Lawn Landscape Irrigation with chemicals

The above information is complete and accurate to the best of my knowledge. I understand that any changes in equipment connected to the domestic water system must be reported immediately to the city of Oak Harbor Building Division and Water Division as a condition of continued service.

**Completed By:** ________________________________    **Date:** _________________