



# GoingGreen AT THE BEACH

## Reference Guide

### MEET OUR PROJECT TEAM:

|                          |                              |  |
|--------------------------|------------------------------|--|
| Owners:                  | Dave & Anna Porter           |  |
| Builder:                 | Chaffey Homes                | <a href="http://www.chaffeyhomes.com">www.chaffeyhomes.com</a>   |
| Architect:               | GMS Architectural Group      | <a href="http://www.gmsarch.com">www.gmsarch.com</a>   |
| Engineer:                | DCI Engineers                | <a href="http://www.dci-engineers.com">www.dci-engineers.com</a>   |
| Sponsorship & Marketing: | Green Dog Enterprises        | <a href="http://www.greendogenterprises.com">www.greendogenterprises.com</a>                                 |
| Photography & Website:   | Northwest Property Imaging   | <a href="http://www.nwpimaging.com">www.nwpimaging.com</a>   |
| Verifier:                | The Construction Consultants | <a href="http://www.constructionconsultantsofWashington.com">www.constructionconsultantsofWashington.com</a> |
| Interior Design:         | Miller & Associates LLC      |  |
| Lender:                  | Countrywide Home Loans       | <a href="http://www.countrywide.com">www.countrywide.com</a>   |

### “SHADES” OF GREEN:

Green building involves tradeoffs between costs, product choices, special features, and other considerations. Not unlike traditional building, these tradeoffs are decided based on personal choice, availability of selected products, and construction schedules. To help our visitors discern between the various choices made at Going Green at the Beach, we've placed products and features of the demonstration home into categories based on cost, complexity and availability:

- ◆ **Dark Green** refers to products or features that have a higher than average cost or may involve more complex planning to implement or get approved by code.
- ◆ **Medium Green** features may cost slightly higher (5-10%) than traditional product choices, or may require more planning to implement.
- ◆ Finally, **Light Green** features are easy to incorporate into any project or in an existing home.

**FOR MORE INFORMATION:** Please visit our project website, [www.goinggreenatthebeach.com](http://www.goinggreenatthebeach.com).

# Room-by-Room Reference Guide

| “Shade”                  | Feature                          | Description and Source  |
|--------------------------|----------------------------------|---|
| <b>CONSTRUCTION</b>      |                                  |   |
| Medium                   | Deconstruction                   | The original home on this site, built in 1907, was deconstructed to salvage usable materials for the new home or for use by others. This kept over 80% of the material from the original home out of the landfill. More than 40% of the material in our landfills is construction debris. <i>Salvaged by Re-Use Consulting <a href="http://www.reuseconsulting.com">www.reuseconsulting.com</a></i>   |
| Medium                   | Advanced Framing                 | Advanced Framing employs a number of construction techniques, including spacing studs at 24” on-center and providing insulated headers, that make the building envelope more energy efficient and reduces wood waste. <i>Engineering provided by DCI Engineers (<a href="http://www.dci-engineers.com">www.dci-engineers.com</a>)</i>   |
| Dark                     | Spray-Foam Insulation            | Icynene® insulation is 100% water-blown and does not emit harmful gases once cured. In addition to providing insulation, it creates a continuous air barrier in the walls, ceilings and floors, which minimizes water penetration and heat loss. <i>Provided by Icynene (<a href="http://www.icynene.com">www.icynene.com</a>)</i>  |
| Medium                   | Recycled Denim Insulation        | This denim insulation, used in the interior walls as a sound barrier, is made from 100% recycled blue jeans. Borate, used as the fire and pest retardant, is very low-toxic to humans and other mammals. <i>Provided by the EcoHaus (<a href="http://www.ecohaus.com">www.ecohaus.com</a>)</i>  |
| Dark                     | Metal Roof                       | The .24 gage metal roofing on this house will greatly decrease heat absorption, which will save energy and increase the life expectancy of the roof by reducing expansion and contraction. Metal roofs also result in non-toxic runoff for rain-water collection. <i>Provided by Custom-Bilt Metals (<a href="http://www.custombiltmetals.com">www.custombiltmetals.com</a>)</i>  |
| Light                    | Blast Furnace Slag in Foundation | Blast furnace slag was used as an environmental additive in place of Portland cement to increase durability of the concrete foundation. The slag, a waste product of iron production, also reduces the risk of damage from corrosion and is produced with just 20% of the energy needed to produce Portland cement. <i>Built by Chaffey Homes (<a href="http://www.chaffeyhomes.com">www.chaffeyhomes.com</a>)</i>  |
| Light                    | Polyethylene (PEX) Water Piping  | This home uses polyethylene plastic tubes instead of traditional copper piping to supply water to individual fixtures. These flexible tubes are resistant to extreme temperatures, making them suitable for hot water distribution. They are also resistant to chemicals that can corrode copper pipes and will retain their shape and strength over time. <i>Built by Chaffey Homes (<a href="http://www.chaffeyhomes.com">www.chaffeyhomes.com</a>)</i>   |
| Medium                   | Termite Protection               | A termite shield was installed between the foundation and the house to increase the longevity of the home. <i>Built by Chaffey Homes (<a href="http://www.chaffeyhomes.com">www.chaffeyhomes.com</a>)</i>   |
| Medium                   | Solar Hot Water                  | The house is plumbed with copper pipes for the potential of future installation of a solar hot water system.  |
| Medium                   | Fiber Cement Siding              | The siding is fiber cement board, an extremely durable product with a life span of more than 40 years. Durable products contribute to decreasing the amount of waste going into landfills, by requiring less maintenance, repair, and replacement. <i>Built by Chaffey Homes (<a href="http://www.chaffeyhomes.com">www.chaffeyhomes.com</a>)</i>   |
| <b>EXTERIOR OF HOUSE</b> |                                  |   |
| Light                    | Drought-Tolerant Landscaping     | Using native vegetation and other plant types that require little to no additional watering provides a resource-efficient and low maintenance alternative to traditional landscaping. Some plants were specifically chosen to attract "good" insects that help reduce the need for harmful insecticides. The magnolia tree was planted in an effort to help preserve a species that is endangered by droughts through the southern United States. <i>Provided by Frog on a Log Parks (<a href="http://www.frogonalogparks.com">www.frogonalogparks.com</a>) and Otak (<a href="http://www.otak.com">www.otak.com</a>)</i> |
| Dark                     | Green Roof                       | Green, vegetated roof areas provide a number of environmental functions, including reducing stormwater runoff, moderating interior temperatures, and filtering pollutants and carbon dioxide out of the air. <i>Provided by Triad Associates (<a href="http://www.triadassociates.net">www.triadassociates.net</a>)</i>   |

|        |                                 |  |
|--------|---------------------------------|--|
| Medium | Rainwater Harvesting            | The home's rainwater catchment system includes a 600-gallon cistern under the back deck and a reclaimed wine barrel, both of which will store rainwater runoff from the roof for watering needs.   |
| Medium | "Bathtub Water Feature"         | This water feature is made from a salvaged tub and faucets, plus a mosaic of tiles left over from other parts of the house. <i>Provided by Frog On A Log Parks (<a href="http://www.frogonalogparks.com">www.frogonalogparks.com</a>)</i>  |
| Medium | Garden Planters and Wall Blocks | The planters and wall blocks used in the garden were all manufactured locally. <i>Provided by Frog On A Log Parks (<a href="http://www.frogonalogparks.com">www.frogonalogparks.com</a>)</i>   |
| Medium | Hanging Baskets                 | The plants in these baskets were specifically chosen to attract beneficial insects. <i>Provided by Frog On A Log Parks (<a href="http://www.frogonalogparks.com">www.frogonalogparks.com</a>)</i>  |
| Dark   | Pervious Concrete               | The patio, walkway, parking pad and road easement are paved with pervious concrete that allows water to drain through into the ground instead of creating more stormwater runoff and allowing for natural filtering of water. The product is made even more pervious by the addition of broken-up reclaimed concrete as an underlayer. <i>Provided by Pervious Concrete, Inc. (<a href="http://www.perviouscrete.com">www.perviouscrete.com</a>)</i>   |
| Medium | Low-Toxic Exterior Paint        | All exterior paint on the house is by AFM Safecoat Paints, one of the highest quality and least toxic paints available. They have eliminated many toxic ingredients such as solvents, heavy metals, chemical residuals, and formaldehyde. The paint is designed to seal surfaces, which reduces off-gassing. <i>Provided by the Environmental Home Center (<a href="http://www.environmentalhomecenter.com">www.environmentalhomecenter.com</a>)</i>   |
| Medium | Faux Painting                   | The cement Fiberboard shingles are faux-painted to look like real cedar. <i>Provided by VC Studio (<a href="http://www.vcstudioinc.com">www.vcstudioinc.com</a>)</i>   |
| Medium | Spa                             | This spa is heated in part by solar-generated electricity, and much of the water is supplied by the rainwater catchment system. It's also been plumbed to allow for future solar hot water. In addition, the spa cover is the most energy-efficient model available. <i>Spa Cover by The Spa Doctor (<a href="http://www.spadoctor.com">www.spadoctor.com</a>)</i>   |
| Medium | Permeable Pavers                | The pavers used for the patio are designed to let rainwater percolate through into the soil below, reducing erosion and filtering pollutants from the water before it enters the Sound. <i>Provided by Mutual Materials (<a href="http://www.mutualmaterials.com">www.mutualmaterials.com</a>)</i>   |
| Medium | FSC-Certified Decking           | This Tigerwood decking is FSC-certified (Forest Stewardship Council). The FSC label ensures that the wood is coming from forests being managed in a way to ensure long-term productivity and protect local cultures, economies, wildlife and soils. Instead of contributing to the destruction of the tropical rain forest, buying FSC-certified wood actually helps keep tropical rain forests flourishing. <i>Provided by the Environmental Home Center (<a href="http://www.environmentalhomecenter.com">www.environmentalhomecenter.com</a>)</i> |
| Light  | Propane Tanks                   | Propane powers the 2 Rinnai tankless hot water heaters that provide domestic hot water for the house and guest suite and heated water for the infloor radiant heat for the guest suite. It also powers the range, 2 fireplaces and barbeque. Propane is actually derived from natural gas, is clean burning, cost-effective and causes less carbon emissions than electricity which requires the burning of coal. Hot water heaters provided by Rinnai. <i>Provided by Rinnai (<a href="http://www.rinnai.com">www.rinnai.com</a>)</i>               |
| Light  | Salvaged Driftwood              | Salvaged driftwood collected from the beach serves as support for retaining walls in the backyard garden.  |
| Medium | Reclaimed Wood Screen Door      | This screen door was handcrafted from reclaimed wood by Tim Teague.  |

## INTERIOR OF HOUSE

|        |                          |   |
|--------|--------------------------|---|
| Medium | Formaldehyde-Free Doors  | All of the new interior doors are made from MDF (Medium Density Fiberboard, an engineered wood product made from wood fiber and adhesives) that does not contain added urea formaldehyde (which conventional MDF contains), for healthier indoor air quality. |
| Medium | Radiant In-Floor Heating | The radiant floor heating used to heat the house contributes to healthy indoor air quality by not circulating dust and pollutants. <i>Provided by EarthHeat (<a href="http://www.earthheat.com">www.earthheat.com</a>)</i>                                    |

|                   |                            |  |
|-------------------|----------------------------|--|
| Light             | Low-Toxic Interior Paint   | All interior paint is American Pride Paint except for the wine cellar, which is Yolo Paint. Both are Green Seal® certified for air quality and do not contain harmful solvents. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i>   |
| Medium            | Energy-Efficient Windows   | Low-e double pane windows offer exceptional energy efficiency. The Milgard windows used in the house exceed Energy Star® standards. <i>Provided by Milgard (www.milgard.com)</i>   |
| Light             | Energy Efficient Lighting  | Approximately 70% of the home's lighting is provided by EnergyStar® approved compact fluorescent (CFL) bulbs or fixtures. The fixtures can be found in the crawl space, mechanical room, under-stairs storage, guest suite closet, and master closet. The master closet fixture also has a motion sensor so it gets turned off even if the homeowners forget to flip the switch. |
| Medium            | Ceiling Fans               | The ceiling fans help cool the house in summer and circulate air in the winter. <i>Provided by Hunter Fans (www.gish.com)</i>  |
| <b>GREAT ROOM</b> |                            |  |
| Medium            | Formaldehyde-Free Shelving | These shelves are made from Skyblend®, a 100% pre-consumer recycled wood particle board that contains no urea formaldehyde. <i>Provided by Organized Spaces (www.organizedspaces.com)</i>  |
| Light             | Salvaged Pine Paneling     | This knotty pine paneling was salvaged from the original cabin. <i>Salvaged by Re-Use Consulting (www.reuseconsulting.com)</i>   |
| Medium            | Cabinets                   | The interior boxes of these cabinets are made from Skyblend®, a particleboard that contains no added urea-formaldehyde, providing better indoor air quality. <i>Provided by Organized Spaces (www.organizedspaces.com)</i> The doors and hardware were salvaged from the original house. <i>Re-Use Consulting (www.reuseconsulting.com)</i>                                      |
| Medium            | Lighting Keypad            | A Lutron whole house lighting control system is used throughout the home for different lighting scenes and to save on energy costs. <i>Provided by Pro-Comm (www.Pro-Comm-Online)</i>  |
| Light             | Fireplace Hearth           | The fireplace hearth is Florim Esquire Sequoyah "Earth Mound" ceramic tile. All-natural, these tiles are created with clay, water and fire - elements that can be recycled or replenished. Florim Esquire tiles are manufactured using high environmental and social standards. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i>               |
| Dark              | Fiber Countertop           | This countertop is made from Kirei, a reclaimed agricultural fiber which is strong, lightweight, durable and environmentally friendly, and finished with Osmo Polyx-oil. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i>  |
| Medium            | Natural Linoleum Flooring  | Marmoleum®, or natural linoleum, is very durable and is made entirely from natural, readily renewable ingredients. It is also naturally resistant to bacterial growth, making it an extremely hygienic flooring choice. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i>   |
| Light             | Salvaged Light Fixtures    | This dining lamp was salvaged from the original cabin.   |
| Light             | Salvaged Fireplace Mantel  | This fireplace mantel was made from salvaged pine tongue and groove flooring from the original cabin. <i>Salvaged by Re-Use Consulting (www.reuseconsulting.com)</i>   |
| Medium            | Fireplace Stove            | The fireplace stove, heated by propane, provides an additional source of heat for the home if needed.  |
| Light             | Fireplace Surround         | The fireplace surround is made from stones collected on the beach by the homeowners, except the very special centerpiece stone from Bedrock Industries ( <a href="http://www.bedrockindustries.com">www.bedrockindustries.com</a> ). The grate is from the original cabin. <i>Salvaged by Re-Use Consulting (www.reuseconsulting.com)</i>  |
| Medium            | Awnings                    | These retractable awnings allow the homeowners to enjoy the western views while keeping out the sun's heat, making air conditioning unnecessary. <i>Provided by Atlas Innovations (www.atlasinnovations.com)</i>   |
| Medium            | Screen Doors               | The screen doors are Disappearing Screen Doors which reduce the need for air conditioning and increasing natural ventilation while protecting the view. <i>Provided by Atlas Disappearing Screen Doors (www.disappearingcreendoors.com)</i>  |

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|--------------------|-------------------------------|--|
| Medium             | Window Coverings              | These window coverings were specifically chosen because they are GreenGuard® certified for indoor air quality. <i>Provided by Atrium Shade Company/Phifer (www.atriumshadeco@qwest.net; www.phifer.com)</i>  |
| <b>KITCHEN</b>     |                               |  |
| Medium             | Kitchen Sink                  | The kitchen sink is made from cast iron, an extremely durable and long-lasting material. <i>Provided by Kohler (www.kohler.com)</i>  |
| Medium             | Touchless Faucet              | This faucet operates on motion sensor, ensuring that it will never waste water by being left running. <i>Provided by Kohler (www.kohler.com)</i>   |
| Medium             | Appliances                    | The appliances are Energy Star® rated. <i>Provided by Whirlpool (www.whirlpool.com)</i>  |
| Medium             | Dish Drawer                   | The dish drawer saves energy and water. <i>Provided by Whirlpool (www.whirlpool.com)</i>   |
| Light              | Salvaged Island Countertop    | The island countertop is made from a piece of marble salvaged from a Seattle hotel.  |
| Dark               | Formaldehyde-Free Cabinets    | These cabinets are made from FSC alder and formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; designed by Miller &amp; Associates Interior Consultants, LLC</i>          |
| Medium             | Quartz Countertop             | This kitchen countertop is comprised of approximately 94% natural quartz aggregates, one of nature's strongest elements, and manufactured using high environmental standards. <i>Provided by CaesarStone (www.caesarstone.com)</i>   |
| Dark               | Breakfast Bar                 | The breakfast bar is designed by local artist Diana Maxum and made from recycled beach glass, recycled stained glass, and found objects to recreate a Northwest tidal pool. <i>Provided by Acappella Designs (www.acappelladesigns.com) with FLATLITE (www.e-lite.com)</i>   |
| Medium             | Backsplash Tile               | The kitchen backsplash tiles are made from 100% recycled glass. <i>Provided by Bedrock Industries (www.bedrockindustries.com)</i>  |
| Light              | Built-In Recycling Bins       | Built-in bins make recycling easy and convenient.  |
| Medium             | Recycled-Glass Chandelier     | This innovative, hand-crafted design by Russ Morgan ( <a href="http://www.justarumor.com">www.justarumor.com</a> ) features a base made from an inverted French wine bottle drying rack, ornamented with the homeowners' beach glass collection and other glass collected by the artist.   |
| Medium             | Cabinet Hardware              | The glass cabinet hardware are American-made by Spectra Décor of durable, lead-free pewter and recycled glass. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>  |
| Light              | Dog Feeding Station           | This raised cubbyhole for the dog's food and water dishes is easier on his neck and makes smart use of space. <i>Designed by Miller &amp; Associates Interior Consultants, LLC</i>   |
| <b>HOME OFFICE</b> |                               |  |
| Light              | Home Office for Telecommuting | This multi-use room will be used as an office for telecommuting. Telecommuting saves energy and reduces pollution. In the future, as the family's needs change, the room's location and door width make it easily convertible into a bedroom accessible to someone with a disability. <i>Designed by GMS Architectural Group (www.gmsarch.com)</i> |
| Dark               | Formaldehyde-Free Cabinets    | These cabinets are made from FSC alder and formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; designed by Miller &amp; Associates Interior Consultants, LLC</i>          |
| Medium             | Cabinet Hardware              | The glass cabinet hardware are American-made by Spectra Décor of durable, lead-free pewter and recycled bamboo. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>   |

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|--------|---------------------------------|--|
| Medium | Energy-Efficient Lighting       | These historically accurate light fixtures are equipped with energy-efficient Compact Fluorescent (CFL) bulbs, which use a quarter of the energy of traditional incandescents while not compromising the aesthetics and performance of the fixtures. <i>Provided by Rejuvenation (www.rejuvenation.com)</i>        |
| Medium | Wall Coverings                  | Innovations wall covering is found in the den. Innovations' products are breathable, helping to reduce the risk of mold, and are manufactured from non-toxic materials to eliminate indoor air quality concerns. <i>Provided by EcoHaus (www.ecohaus.com)</i>  |
| Medium | FSC Certified Chestnut Flooring | This EcoTimber Australian Chestnut flooring was brought from a previous green demonstration home. The flooring is FSC-certified (from sustainably managed forests) engineered product and is an ideal flooring choice over radiant in-floor heat. <i>Provided by The Built Green Home (www.builtgreenhome.com)</i> |

## MAIN FLOOR BATH

|        |  |  |
|--------|--|--|
| Medium | Accommodating People with Disabilities | Universal Design features have been built in to the home's design, "future-scaping" it for the current residents. This shower and sink are fully accessible and the current office could be used as a bedroom. The entry from the street could easily be modified to include a wheelchair ramp. <i>Design by Miller &amp; Associates Interior Consultants, LLC</i> |
| Dark   | Formaldehyde-Free Cabinets             | These cabinets are made with FSC alder and formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; Designed by Miller &amp; Associates Interior Consultants, LLC</i>                          |
| Medium | Cabinet Hardware                       | The glass cabinet hardware are American-made by Spectra Décor of durable, lead-free pewter. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>   |
| Medium | Tile                                   | This Irongate tile is made to be long lasting and sustainable. It does not produce any off-gassing and the product and glazes are lead-free. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>   |
| Medium | Crown Molding                          | All the crown moldings on the ceilings are made from plaster of Paris, which is cost-effective and won't shrink, expand, or deteriorate with humidity. They are also completely fire-proof. <i>Provided by Atlas Innovations (www.atlasinnovations.com)</i>  |
| Medium | Plumbing                               | The toilet has an eco-friendly, 1.4-gallon water setting option that saves almost 3200 gallons of water per year per fixture without loss of performance. <i>Provided by Kohler (www.kohler.com)</i>   |
| Dark   | Ventilation                            | The ventilation for the exhaust fan is provided by the Lifebreath Heat Recovery Ventilator. <i>Provided by Lifebreath (www.lifebreath.com)</i>   |

## STAIRWELL

|        |                             |  |
|--------|-----------------------------|--|
| Medium | FSC-Certified Teak Flooring | Teak flooring is very durable and structurally stable so it wears well over in-floor radiant heat. Natural oils prevent cracking and checking. This flooring is certified by the Forest Stewardship Council as coming from a Costa Rican plantation that meets strict environmental and fair trade requirements. <i>Provided by Toucan Teak (www.toucanteak.com)</i> |
| Light  | Shelving                    | The built-in shelving makes good use of space and is made from Skyblend®, a particleboard that contains no added urea-formaldehyde, providing better indoor air quality. <i>Provided by Organized Spaces (www.organizedspaces.com)</i>   |

## UPSTAIRS FAMILY ROOM

|        |                                   |  |
|--------|-----------------------------------|--|
| Medium | FSC-Certified Teak Flooring       | Teak flooring is very durable and structurally stable so it wears well over in-floor radiant heat. Natural oils prevent cracking and checking. This flooring is certified by the Forest Stewardship Council as coming from a Costa Rican plantation that meets strict environmental and fair trade requirements. <i>Provided by Toucan Teak (www.toucanteak.com)</i> |
| Medium | Centralized "Smart Home" Controls | The home's security system and media equipment are easily accessible by design. The big screen television is Energy Star®-rated. <i>Provided by The Music Room (www.themusicroom-online.com)</i>   |

|                     |                                |   |
|---------------------|--------------------------------|---|
| Medium              | Cupola Stair Treads & Flooring | The stair treads and flooring for the cupola are reclaimed from old bleachers! <i>Provided by Cascadia Forest Goods (www.cascadiaforestgoods.com)</i>   |
| <b>CUPOLA</b>       |                                |   |
| Dark                | "Lighthouse" Cupola            | In addition to complementing the waterfront setting, the home's "lighthouse" provides natural light and ventilation to the house through the stairwell. <i>Designed by GMS Architectural Group (www.gmsarch.com)</i>  |
| <b>MASTER SUITE</b> |                                |   |
| Medium              | Bamboo Flooring                | The bedroom flooring is made from bamboo, which is harder than oak, more stable than maple, and has a durable finish. Bamboo is considered a sustainable product because it is rapidly renewable and can be grown in plantations so its harvest does not interfere with wildlife. <i>Provided by Teregren (www.teregren.com)</i>  |
| Light               | Energy Efficient Lighting      | Approximately 70% of the home's lighting is provided by ENERGY STAR®-approved compact fluorescent (CFL) bulbs or fixtures. The fixtures can be found in the crawl space, mechanical room, under-stairs storage, guest suite closet and master closet. The master closet fixture also has a motion sensor so it gets turned off even if the homeowners forget to flip the switch! <i>Home certified by ENERGY STAR Homes Northwest (www.northwestenergystar.com)</i> |
| Medium              | Electronics                    | This TV is Energy Star®-rated and is mercury-free. <i>Installed by The Music Room (www.themusicroom-online.com)</i>   |
| Medium              | Bathroom Door                  | The bathroom doors and fireplace cabinet doors are custom-made with reclaimed alder frames. <i>Provided by Shakti Shoji (www.shaktishoji.com)</i>   |
| Light               | Mildew-Free Shower             | These glass shower doors have been treated with ClearShield, a mildew-resistant coating for improved air quality and durability. Durable and recyclable, glass doors are a greener choice than shower curtains. <i>Provided by AAA Kartak Glass &amp; Closet (www.kartakglass.com)</i>  |
| Medium              | Closet Space                   | Walk-in closet was designed by Organized Spaces using Skyblend®, a particleboard that contains no added urea-formaldehyde, providing better indoor air quality. <i>Provided by Organized Spaces (www.organizedspaces.com)</i>   |
| Medium              | Motion Detector Light Fixture  | The light fixture in the master room closet is a motion detector light fixture, which helps conserve energy.  |
| <b>MASTER BATH</b>  |                                |   |
| Medium              | Recycled Glass Shower Tiles    | Oceanside glass tile, made from recycled glass bottles and sand, was used on this master shower wall. About 85% of the product is made from recycled content. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>   |
| Medium              | Recycled Shower Tiles          | Fireclay tiles are used on the shower wall. They contain post-industrial recycled-content and were reused from a previous green demonstration home. <i>Provided by the Built Green Home at Suncadia (www.thebuiltgreenhome.com)</i>   |
| Medium              | Recycled Tiles                 | The glass tiles are used in the master shower and on the master fireplace surround are made of 100% post-industrial recycled materials (usually, window and door manufacturers' scraps.) <i>Provided by Bedrock Industries (www.bedrockindustries.com)</i>  |
| Medium              | Shower Tile Flooring           | This shower floor, by Island Stone, has been collected from various island locations. Manufactured in Bali and Indonesia, it meets the highest quality standards and in compliance with all international labor and human rights laws. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>  |
| Dark                | Formaldehyde-Free Cabinets     | These cabinet boxes are formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; designed by Miller &amp; Associates Interior Consultants, LLC</i>  |
| Medium              | Cabinet Hardware               | The glass cabinet hardware are American-made by Spectra Décor of durable, lead-free pewter and reclaimed cork. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>   |

|        |                           |  |
|--------|---------------------------|--|
| Medium | Exhaust Fan               | This Whisper Green fan offers a motion detector and built-in shut-off that conserves energy. <i>Provided by Panasonic Ventilating Fans (www.repesa.com)</i>  |
| Medium | Recycled Paper Countertop | Paperstone is made locally in Washington State from post-consumer recycled paper content and bonded with a 100% water based system. It is strong, durable, hygienic, and resistant to staining and heat damage. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i> |
| Light  | Towels                    | The towels are made from organic cotton.   |

### LAUNDRY ROOM

|        |   |  |
|--------|---|--|
| Medium | Natural Linoleum Flooring                   | Marmoleum®, or natural linoleum, is very durable and is made entirely from natural, readily renewable ingredients. It is also naturally resistant to bacterial growth, making it an extremely hygienic flooring choice. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i> |
| Medium | Water- and Energy-Conserving Washer & Dryer | This front-loading, steam clothes washer uses 70% less water and 77% less energy than a typical model, and also treats clothes more gently, making them last longer. <i>Provided by Whirlpool (www.insideadvantage.com)</i>  |
| Light  | Salvaged Light Fixture                      | This light fixture was salvaged from the original cabin. <i>Salvaged by Re-Use Consulting (www.reuseconsulting.com)</i>  |
| Medium | Exhaust Fan                                 | This Whisper Green fan offers a motion detector and built-in shut-off that conserves energy. <i>Provided by Panasonic Ventilating Fans (www.repesa.com)</i>  |

### UPSTAIRS BATH

|        |                            |  |
|--------|----------------------------|--|
| Medium | Quartz Countertop          | This bathroom countertop is comprised of approximately 94% natural quartz aggregates, one of nature's strongest elements, and manufactured using high environmental standards. <i>Provided by CaesarStone (www.caesarstone.com)</i>  |
| Medium | Quartz Flooring            | This bathroom flooring is Island Stone natural quartz. It is manufactured in Bali and Indonesia and meets the highest quality standards and complies with all international labor and human rights laws. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>   |
| Medium | Backsplash Tile            | The bathroom backsplash is Encore Tile, a company that produces no raw waste and continually creates and implements new energy- and resource-saving measures. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>  |
| Medium | Plumbing                   | The toilet has an eco-friendly, 1.4-gallon water setting option which saves almost 3200 gallons of water per year per fixture without loss of performance. <i>Provided by Kohler (www.kohler.com)</i>  |
| Dark   | Ventilation                | The ventilation for the exhaust fan is provided by the Lifebreath Heat Recovery Ventilator. <i>Provided by Lifebreath (www.lifebreath.com)</i>   |
| Dark   | Formaldehyde-Free Cabinets | These cabinet boxes are formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; Designed by Miller &amp; Associates Interior Consultants, LLC</i> |
| Light  | Cabinet Hardware           | The cabinet hardware is made from recycled glass by Aurora Glass. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>   |
| Light  | Mirror                     | The mirror was purchased from a local antique store.   |

### LOWER FLOOR

|        |                       |   |
|--------|-----------------------|---|
| Medium | In-Floor Radiant Heat | This concrete floor finished by VC Studio covers the in-floor radiant heating system that heats this floor of the home. Concrete and tile are the most effective floor finishes over in-floor radiant heat systems to maximize the efficiency of the heating system. <i>Provided by VC Studio (www.vcstudioinc.com)</i> |
| Medium | Wall Art              | The "sand" in this wall art is made from lightweight recycled concrete and the piece incorporates items found on the local beach. <i>Provided by First Impressions</i>  |

### BASEMENT BATH

|        |                            |  |
|--------|----------------------------|--|
| Dark   | Formaldehyde-Free Cabinets | These cabinet boxes are formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; designed by Miller &amp; Associates Interior Consultants, LLC</i>   |
| Light  | Cabinet Hardware           | The cabinet hardware is made from recycled glass by Aurora Glass. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>   |
| Medium | Recycled Glass Countertop  | The bathroom counter is made by IceStone, a very durable surface made from 75% recycled glass and concrete. It is strong like granite, not as porous as marble, and heat-resistant like stone. The chemical composition is benign and 99.5% inorganic, making it a very safe material from the standpoint of toxicity and fire resistance. <i>Provided by Ambiente Tile (www.ambientetile.com)</i> |
| Medium | Shower Floor               | This steam shower floor, by Island Stone, has been collected from various island locations. Manufactured in Bali and Indonesia, it meets the highest quality standards and in compliance with all international labor and human rights laws. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>   |
| Medium | Shower Tile                | The steam shower walls are covered in Island Stone glass tile, a durable and recyclable product. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>   |
| Medium | Plumbing                   | The toilet uses Dual Force technology which allows the choice of .8 gallon flush for liquid or light waste. The 1.6 gallon flush is for bulk or solid waste. Dual Force technology can save the average family of 4 up to 6,000 gallons of water per year with the .8 gallon option. <i>Provided by Kohler (www.kohler.com)</i>  |

### EXER-CRAFT ROOM

|        |                           |  |
|--------|---------------------------|--|
| Light  | Multi-Use Space           | This "Exer-Craft Room" is an example of a multi-use space, combining a craft/workspace with space-efficient exercise equipment. <i>Designed by GMS Architectural Group (www.gmsarch.com)</i>   |
| Medium | Recycled Paper Countertop | Paperstone is made locally in Washington State from post-consumer recycled paper content and bonded with a 100% water based system. It is strong, durable, hygienic, and resistant to staining and heat damage. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i> |
| Light  | Salvaged Cabinets         | These cabinets were salvaged from the original cabin. <i>Salvaged by Re-Use Consulting (www.reuseconsulting.com)</i>   |
| Light  | Salvaged Doors            | The barn door was created by attaching two doors salvaged from the original cabin. <i>Salvaged by Re-Use Consulting (www.reuseconsulting.com)</i>  |

### WINE CELLAR

|       |   |   |
|-------|---|---|
| Light | Wine Racks                                | These wine racks were locally made by combining "found" materials from many sources: leftover scrap teak and Australian chestnut from flooring installed elsewhere in the home along with wood salvaged from the original cabin. <i>Provided by John Cross, Master Racker</i> |
| Light | Salvaged Cabinet                          | This cabinet was salvaged from the original cabin and then covered using old wine crates.   |
| Light | Light Fixtures from Recycled Wine Bottles | These light fixtures were made from recycled wine bottles. <i>Provided by Meyda Tiffany (www.meydatiffany.com)</i>  |
| Light | Salvaged Door                             | The windows and door in the wine cellar were salvaged from another project by an architectural salvage company.   |

### CRAWL SPACE

|        |                          |  |
|--------|--------------------------|--|
| Medium | Built-In Vacuum          | A built-in, whole-house vacuum cleaner improves the home's indoor air quality by removing dust without dispersing it around the home.  |
| Dark   | Heat Recovery Ventilator | This heat recovery ventilator (HRV) provides fresh air while also recovering the heat from the stale air leaving the house and using it to help heat the fresh air coming in. In the summer, it works the opposite way! It also supplies exhaust for some of the bathroom fans. <i>Provided by LifeBreath (www.lifebreath.com)</i> |

### MECHANICAL ROOM

|        |                              |  |
|--------|------------------------------|--|
| Dark   | Geothermal Heat Pump         | This geothermal heat pump powers the in-floor radiant system in the main house, as well as supplying extra heated water to “prime” the tankless water heater for domestic hot water. <i>Provided by Hydron (www.hydronmodule.com)</i>  |
| Medium | Hot Water Recirculating Pump | Waiting for hot water through the tap can waste on average of 2-3 gallons per use. Grundfos HWR pumps offer a solution to the problem by attaching to the water heater through the hot water pipe. By constantly circulating hot water through the pipes from the heater to the furthest fixture, the water in the pipes is always hot, and no water is wasted during the wait. <i>Provided by Grundfos (www.grundfos.com)</i> |

### **GUEST SUITE OVER GARAGE**

|        |                            |  |
|--------|----------------------------|--|
| Medium | Salvaged Tiles             | The inlaid tiles in this bathroom were hand-carried from Italy by the homeowners.  |
| Medium | Recycled Glass Countertop  | The bathroom and hospitality bar counters are made by IceStone, a very durable surface made from 75% recycled glass and concrete. It is strong like granite, not as porous as marble, and heat-resistant like stone. The chemical composition is benign and 99.5% inorganic, making it a very safe material from the standpoint of toxicity and fire resistance. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>   |
| Dark   | Formaldehyde-Free Cabinets | These cabinets are made from FSC alder and formaldehyde-free, Melamine-covered agriboard, a recycled-fiber product, and finished with paints and topcoats low in harmful volatile organic compounds (VOCs). <i>Provided by Neil Kelly (www.neilkellycabinets.com) &amp; designed by Miller &amp; Associates Interior Consultants, LLC</i>  |
| Medium | Cabinet Hardware           | The glass cabinet hardware are American-made by Spectra Décor of durable, lead-free pewter and recycled glass. <i>Provided by Environmental Home Center (www.environmentalhomecenter.com)</i>  |
| Medium | Cork Flooring              | Vida Cork flooring is used throughout the Guest Suite. Cork flooring is made from the bark of the cork oak tree, making this a rapidly renewable flooring alternative. It is formaldehyde-free and does not promote mold growth or hold allergens, contributing to healthy indoor air quality. Cork is also a natural insulator, making the floor inherently warm to the touch. <i>Provided by the Environmental Home Center (www.environmentalhomecenter.com)</i> |
| Medium | Backsplash Tiles           | The tiles for the guest suite bath and hospitality bar backsplash are Irongate tile, made to be long lasting and sustainable. It does not produce any off-gassing and the product and glazes are lead-free. <i>Provided by Ambiente Tile (www.ambientetile.com)</i>  |
| Medium | Mosaic                     | The mosaic in the guest suite hospitality bar backsplash is made from reused and found broken pieces of discarded china and pottery, much of it from the local beach. <i>Created by Acappella Designs (www.acappelladesigns.com)</i>   |
| Light  | Salvaged Tiles             | These subway tiles on the bathroom floor were reused from one of the contractor’s previous projects.   |
| Dark   | In-Floor Radiant Heat      | This suite is heated with an in-floor radiant system run by a tankless water heater. <i>Provided by WarmBoard (www.warmboard.com)</i>  |
| Medium | Plumbing                   | The toilet has an eco-friendly, 1.4-gallon water setting option which saves almost 3200 gallons of water per year per fixture without loss of performance. <i>Provided by Kohler (www.kohler.com)</i>  |

### **GARAGE**

|      |                        |   |
|------|------------------------|---|
| Dark | Solar Power            | The home’s 1.2 kW system is expandable to meet changing needs. Currently, there are six photovoltaic (PV) panels on the roof of the garage. Four additional 200-watt panels could be added, as well as an extra inverter and additional battery storage. The inverter was manufactured in the state of Washington which qualifies it for a Washington State rebate. <i>Panels, battery back-up, and installation provided by Ace Community Energy (www.acesolarpower.com); inverter by Outback (www.outbackpower.com)</i> |
| Dark | Battery Back-Up System | This battery back up system stores excess energy from the solar photovoltaic panels and can augment the home’s electricity in case of power outages. When power is low on the 48-volt battery array, power automatically shifts to a propane generator. <i>Provided by Ace Community Energy (www.acesolarpower.com)</i>   |

|        |                              |   |
|--------|------------------------------|---|
| Dark   | Tankless Water Heaters       | A tankless water heater powered by propane supplies the guest suite in-floor radiant heat system and the domestic hot water. <i>Provided by Rinnai (www.rinnai.com)</i>   |
| Dark   | Geothermal System            | The home's geothermal system starts with two bores drilled 200 feet into the ground below the garage floor to take advantage of the consistent ambient temperature. <i>Boart Longyear (www.boartlongyear.com providing the drilling, Hydron (www.hydronmodule.com) supplied the heat pump, and EarthHeat (www.earthheat.com) designed and installed the system.</i> |
| Medium | Recycled-Content Garage Door | At least 86% of this door is manufactured from recovered and recycled content (81% recovered wood fiber & 5% recycled paper). It was also made without the use of ozone-damaging chlorofluorocarbons.   |

For more information including photos, please visit our website, [www.goinggreenatthebeach.com](http://www.goinggreenatthebeach.com)