

Shoreland Overlook

Select Sustainable Design and Building Performance Strategies:

Ecology:

- The house utilizes the siting of a prior home, minimizing impact on the forested site and nearby wetlands.
- No trees were removed to create a view of the lake (or of home from lake), preserving the integrity of the shoreline for the public (boaters) view as well as maintaining root systems for erosion control.
- Trees that were removed for purposes of construction were limited to as few as possible in order to maintain the forested nature of the site. This work was done in consultation with a landscape architect and arborist.
- New landscaping is all native plants and local materials: Ferns, Blueberry, Birches, Glacial erratic boulders, mosses, etc.
- The house intentionally integrates and weaves the native understory landscape materials into the architectural design.
- Site drainage incorporated as a design feature.
 - An upland drainage swale runs between main house and guest house and under a connecting bridge. The swale incorporates erratic boulders and stones as well as ferns and mosses ultimately terminating in a natural wetland.
 - Roof drainage via scuppers evacuate into a “wet” landscape feature of native plants and erratic boulders at entry of house, highlighting the native condition as well as rain events (climate) as worthy of contemplation and enjoyment.
- The houses exterior palette of dark stained cedar siding and glass is designed to visually camouflage and recess the building into the forest.
- Massing of house is reduced by a locating as much program below grade as possible.

Wellness:

- Design incorporates strategic and generous use of glazed windows and doors to visually connect the indoors to outdoors.
- The house encourages “going outside” with varied and multiple points of access to the exterior.
- Generous natural light provided to all habitable spaces via glazed windows and doors.
- Expansive lift and slide doors strategically used to create a “screened-porch condition” throughout house at living and bedroom spaces, allowing natural ventilation and sounds and smell of the site to pervade the indoors.
- Radiant floor heat throughout adds thermal comfort for occupants in Winter.

- Muted natural materials (Western Red Cedar, American Black Walnut, Granite) used to create a warm and calm interior environment, that intentionally highlights the natural landscape beyond via glazed / screened openings.
- Custom designed boulder fountain / bubbler at entry hall provides calming sounds of running water.
- Varied scales of indoor and outdoor spaces with relationships to the landscape allow users to inhabit the house and/or landscape in intimate contemplative settings or in larger social settings.
- Accessible measures ensure enjoyment for all occupants. (i.e. entry ramp, walk-in-tub, single level access between house and guest house)
- Vegetable and herb garden and fruit trees provide seasonal offerings for owners.
- A gym provides space for exercise and movement.
- New footpaths allow for walks through the 20 acre forested site and provide lakeside access for swimming / enjoyment of the lake.
- Common spaces (dining / living room and lakeside deck) are designed with ample and comfortable furnishings for use of both the client couple, but also large groups of affiliated family, friends and colleagues – encouraging community based activities and socialization (musical performances, poetry readings, therapy groups, as well as large dinners and parties).

Energy

- 10.4 Kilowatt solar bi-facial array on adjustable ground mount.
- Code-exceeding building insulation.
- Passive (cross) ventilation throughout for fresh air and summertime cooling.
- Large roof overhangs and preserved trees provide summer shading. Ceiling fans and small supplemental AC system provide minimally required cooling in extremely hot conditions.
- ERV's provided for energy savings and fresh air (in winter).

Water

- All landscaping designed without irrigation.
- Stormwater design minimally changes existing stormwater management. All stormwater water designed to return to ground or nearby wetland / lake.
- Factory enameled metal standing seam roof minimizes runoff contaminants to the lake.