

# **Green Building Features**

of

## **Greensward Hamlet**

### **1. Livable community plan.**

- Well designed, Multi-family homes clustered to encourage neighborliness and limit ecological footprint.
- A common house for residents to share meals and other activities. Guest rooms, exercise room, playroom, library, and other multi-purpose rooms in the common house allow for smaller individual homes and for residents to share resources.
- Home offices in the common house for small businesses.
- Durable and low-maintenance design strategies and materials make homes affordable year after year.
- Universal design of the homes allows for aging in place and handicap accessibility. Hallways and door openings can accommodate wheelchairs. Some homes are one level.

### **2. Wise use of energy.**

- Energy efficient, airtight construction of buildings using insulated concrete forms (ICF) with superior insulation in the ceiling and floors; triple-glazed windows; radiant floor heat system; and fresh air ventilation create comfortable homes that will last many generations and be inexpensive to maintain.
- A passive solar, geothermal and solar hot water heat and cooling system uses NO FOSSIL FUEL and generates NO HEATING BILLS. Overhangs on south windows, deciduous trees for shade on south and west sides provide natural cooling.
- Carpooling for traveling to work and doing errands.

### **3. Healthy indoor environments.**

- Use of non-toxic building materials (no-VOC paints, concrete and hardwood floors, pressed-wood products with no formaldehyde) and a fresh-air ventilation system to produce healthy homes with no allergens.
- Quiet exhaust fans to remove moisture from the homes.
- Quiet appliances to reduce noise pollution. Natural landscaping that requires no mowing to reduce outside noise pollution and use of chemicals.
- A track-off system at entryways.

### **4. Conservation of natural resources.**

- The site design preserves wetlands and woodlands for wildlife and recreation. Open space used for garden and landscape features.
- Reuse/recycling of construction waste; recycled flyash in concrete; FSC-certified lumber; recycled-content decking, roofing, and other products; rapidly renewable bamboo or cork for flooring.
- Homes have sunshine for daytime lighting and energy efficient compact fluorescent bulbs for night lighting. Outdoor lighting is solar powered. Roofs are photovoltaic-ready for future installation of photovoltaic solar panels for generating electricity.
- A community garden provides organic vegetables for the community, reducing transport of goods.
- Electricity for the common house is generated by photovoltaic panels and a wind turbine.

### **5. Water Conservation.**

- Low-water landscaping with native plants. Rainwater collection for irrigation of private home gardens.
- Low-flow faucets and showerheads, dual flush toilets, water-efficient dishwashers.