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**BLD**

**BETTER LIVING DESIGN I N S T I T U T E™**

Age Friendly Accessory Dwelling Unit

Notes and Design Guidance

This document explains or expands on certain elements that are listed in the criteria document. You can also find here elements that are not listed in the criteria document because we will not evaluate the submittals in those areas. If consistent with your approach, feel free to include these additional features in your design.

Please use this document in combination with other resource materials to inform your work.

# AROUND THE HOUSE

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## PATHS AND ENTRANCES

When the entrances to patios, porches, and decks are level with the main floor, it enables individuals with limited mobility and/or visual impairments to easily access them.

Appropriate lighting at entry doors include focused light on the lockset, general illumination for seeing visitors at night, and/or motion detector controls that turn on lights when someone approaches the door, thereby eliminating the prob- lem of dark approaches to homes. These measures also add a sense of security.

*The items below may be added as possible.*

* Slip resistant, firm, even, smooth exterior surfaces along path of travel (from parking or street access, as well) to step-free entry
* If there is a sloped path, stairs may be added.
* If access from the attached garage is step-free, it may count as the qualifying step-free entrance.
* Low threshold, no greater than one-half inch rise
* For some models of exterior sliding doors, a low-profile threshold can be achieved by dropping the door frame and threshold into the subfloor.

## GARAGES

*The items below may be added as possible.*

* Allow an aisle of 4ft on one side of one of the parking spaces for easy door opening and to provide enough space for one person to assist another.

» One way to achieve this is by having a split layout of 2ft aisle/10ft door/4ft aisle/10ft door/2ft aisle

## SAFETY AND SECURITY

*The items below may be added as possible.*

* Motion Detecting, light-sensitive, or programmable illumination at step free entrance and primary entrance (if different)
* Lighted doorbell at a reachable height
* A way for visitors to communicate with residents AND a way for residents to safely view visitors
* Motion detecting lights illuminate pathway to stepless home entry
* Motion detecting lights illuminate pathway to all home entries
* Motion Detecting, light-sensitive, or programmable illumination along all pathways and stairs

# INSIDE THE HOUSE

## CIRCULATION

Dimensional requirements for doors, doorways, and hallways improve functionality and are shorthand ways of pro- viding improved functionality when maneuvering in tight spaces for people who may be using equipment such as walkers, and lack the strength or agility to easily turn, or for those who are using large fixed size mobility devices like wheelchairs to get around. The attention paid to this in regulatory documents such as ICC A117.1 reveals a lot of complexity in this area including relationships between spaces adjacent to doorways, door swings, and door widths. In fact the wider a doorway is the smaller the hallway or adjacent space needs to be. In the same manner, a narrow doorway is made more usable if the approach and passage are unconstrained.

Minimize hallways when possible and opt for an open plan design. There are several reasons for this recommen- dation: it reduces narrow passage points, maximizes the efficient use of space, makes the home feel more spacious, and improves circulation, especially when there are many visitors or individuals using mobility equipment.

*The items below may be added as possible.*

## DOORS

* Interior pocket doors should extend a minimum of 2 inches outside the door jamb and be equipped with open-loop handles for easy gripping or other easy-to use opener.
* Bypassing closet doors should allow a clear opening of at least 32 inches.

## WINDOWS

* Window selection that allows for added motorized openers
* Casement, awning, tilt & turn, and hopper are all examples of easy to use windows

## BATHROOM

* Offset controls in the tub/shower with adjacent clear floor space allows for easy access from outside the tub with no inconvenience when inside.

*The items below may be added as possible.*

Layout

* Toilet located in 54” wide space
* A 60” diameter turning space (or T turn) in the room and 30” x 48” clear floor spaces at each fixture provides adequate maneuvering room. Spaces may overlap
* External mechanical ventilation
* Continue flooring under cabinets

Comfort

* Humidistats on bathroom fans and timed fans
* Alternate or additional heat source in bathroom

Safety

* Adjustable height, movable hand-held showerhead or a 60–72 inch flexible hose.
* Sturdy grab bars for hand-held shower vertical adjustment.
* Raised toilets with a height of 17–19 inches might be appropriate for some users.

*When customizing for some seated users*

* Wall-hung lavatories acceptable with appropriate pipe protection.
* Drop-in and undermount lavatories preferred with the bowl mounted close to the front edge.

## KITCHEN

Incorporating different countertop heights into kitchen designs can cater to the diverse needs of users. For individuals who struggle with standing for extended periods or older individuals, 32” high countertops provide the convenience of sitting while preparing food. Lower countertops with ample space beneath the sink offer practicality for short people or wheelchair users, enabling easy access. Conversely, taller individuals may find 42” high countertops more comfortable. By accommodating these varying countertop heights, kitchen designs can effectively meet the requirements of a wide range of users. Lowered 32” H work surface can be fixed or by means of pull out or fold up work surfaces.

*The items below may be added as possible.*

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Cabinets/Shelving/Drawers

* Pantry storage is an example of storage that maximizes the 18”–54” reach range
* Pull out shelves on door base cabinets
* Full extension drawers in base cabinets
* Soft close drawers

Additional lowered storage option:

* Wall cabinets descending to the counter

Hardware/Fixtures

* Easy to use cabinets
* Lever sink controls
* Light-touch or sensor faucet
* Hot water dispenser
* Pot filler over range

*For an accessible kitchen, adaptations could include*

* Rear drain sink and waste line.
* Rear-mounted disposal and drain.

## LAUNDRY

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*The items below may be added as possible.*

* Washer/dryer units with reachable controls, front-loading, and raised on a base.
* Single combined units and stacked units are good options, especially in smaller spaces.

## INDOOR AIR QUALITY (IAQ)

An ERV, or Energy Recovery Ventilation, is a technology used in buildings to save energy and improve indoor air quality. It works with the HVAC system.When fresh air is brought in from outside, the ERV system captures the heat or coolness from the outgoing air inside the building and transfers it to the incoming air. It also exchanges moisture, which helps control humidity levels. By doing this, the ERV system reduces the amount of energy needed to heat or cool the fresh air, making the building more efficient. It also filters out pollutants, ensuring cleaner air for occupants. In simple terms, an ERV helps buildings save energy, maintain a comfortable environment, and keep the air healthy.

*The items below may be added as possible.*

* Installation of ERV
* Induction or electric cooktops w/externally vented range hood
* If fireplace, electric unit, or direct vent unit

## LIGHTING

* LEDs last longer and require less frequent changing than other alternatives.

Layered Lighting refers to a combination of general and task lighting: This may include under cabinet lighting, uplighting over cabinets, pendant lighting, recessed cans, surface mounted ceiling light fixtures, lighting within cabi- nets and drawers, lighting over sinks and work surfaces.

*The items below may be added as possible.*

* Increased lighting levels suitable for aging eyes, coupled with dimmer
* Motion or occupant detecting night light in bedroom and bathroom
* In kitchen, under cabinet lighting located at front edge of bottom of wall cabinet, pointing down

## FLOORING

Slip Resistant Flooring refers to floor finishes that minimize glare, are slip resistant, and offer low resistance to walking or rolling. Check on the floor material’s Dynamic Coefficient of Friction (DCOF) for a rating of minimum threshold of 0.42 DCOF, as measured by the DCOF AcuTest.

ICC 302.1 commentary - Slip resistance is based on the frictional force necessary to keep a shoe or crutch tip from slipping on a walking surface under the conditions of use likely for that surface. For example, outside surfaces or entryways may be wet from rain or snow, or bathroom floors may be wet and should be evaluated under those con- ditions; however, the tile on the upstairs hallway would typically not be influenced by outside weather and should be evaluated in a dry condition. Although it is known that the static coefficient of friction is one basis of slip resis- tance, there is not as yet a generally accepted method to evaluate the slip resistance of walking surfaces for all use conditions.

*The items below may be added as possible.*

* Color contrast between floor surfaces and trim/wall. Avoid glossy surfaces

## SWITCHES AND CONTROLS

*The items below may be added as possible.*

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* Rocker panel or hands free switches
* Sliding dimmer switches for overhead lighting
* Added outlet over entry door allows for future installation of power operated door
* High visibility, easy to read IEQ devices
* Monitoring of IEQ via Remote access — bluetooth or wifi enabled

# WHOLE HOUSE FUNCTIONALITY

## MAINTENANCE

Low Maintenance Material refers to a construction material that requires minimal effort, time, and resources to maintain its appearance, functionality, and durability over an extended period. These materials are designed to withstand various environmental conditions, resist damage or deterioration, and often require less frequent cleaning, repairs, or replacements compared to other options. The use of low maintenance building materials can contribute to reduced costs and efforts associated with building maintenance and can be beneficial for long-term sustainabili- ty and ease of ownership. Some examples are fiber cement, metal, brick, engineered wood, acetylated wood, and thermally modified wood.

*The items below may be added as possible.*

* If applicable, locate HVAC filter access between 18”–48” aff, in reachable location
* Easy to clean flooring, countertops, refrigerators, stoves

## POWER AND HOME TECH

Whole House-Integrated Home Automation refers to a comprehensive system that allows for the centralized con- trol and automation of various devices and systems within a home. It involves the integration of multiple smart tech- nologies, such as lighting, heating and cooling, security systems, audiovisual equipment, appliances, and more, into a single cohesive network. Through this system, homeowners can remotely manage and automate various aspects of their home, including controlling lights, adjusting temperature, monitoring security cameras, managing entertainment systems, and even accessing and controlling these features through mobile devices or voice commands. The goal is to enhance convenience, energy efficiency, comfort, and security by bringing together all the smart devices and sys- tems under one unified platform.

*The items below may be added as possible.*

* Backup Power Source
* Solar PV system with battery backup
* Generator