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Drawing were produced using ArchiCAD,
a computer software package donated by GRAPHISOFT.

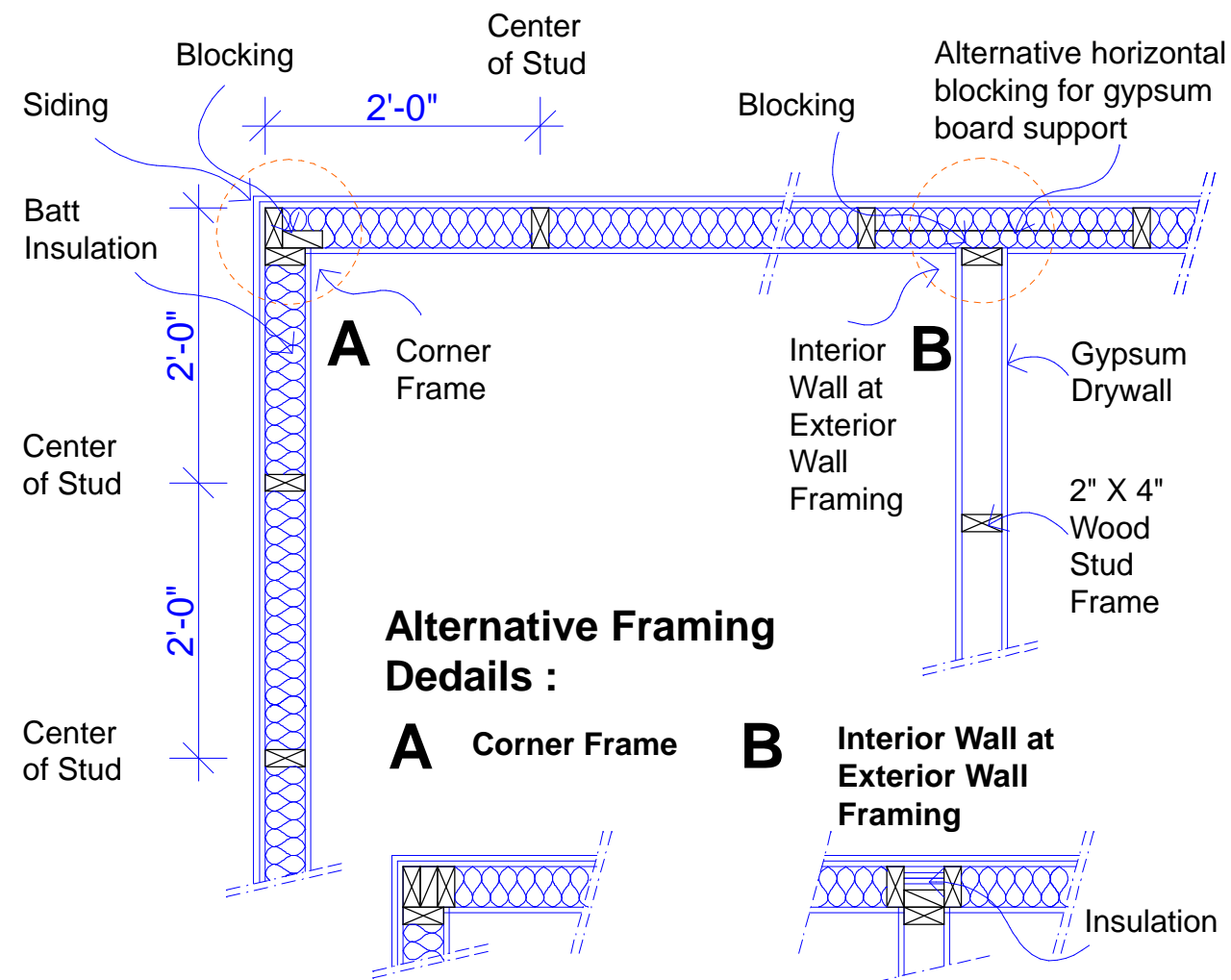


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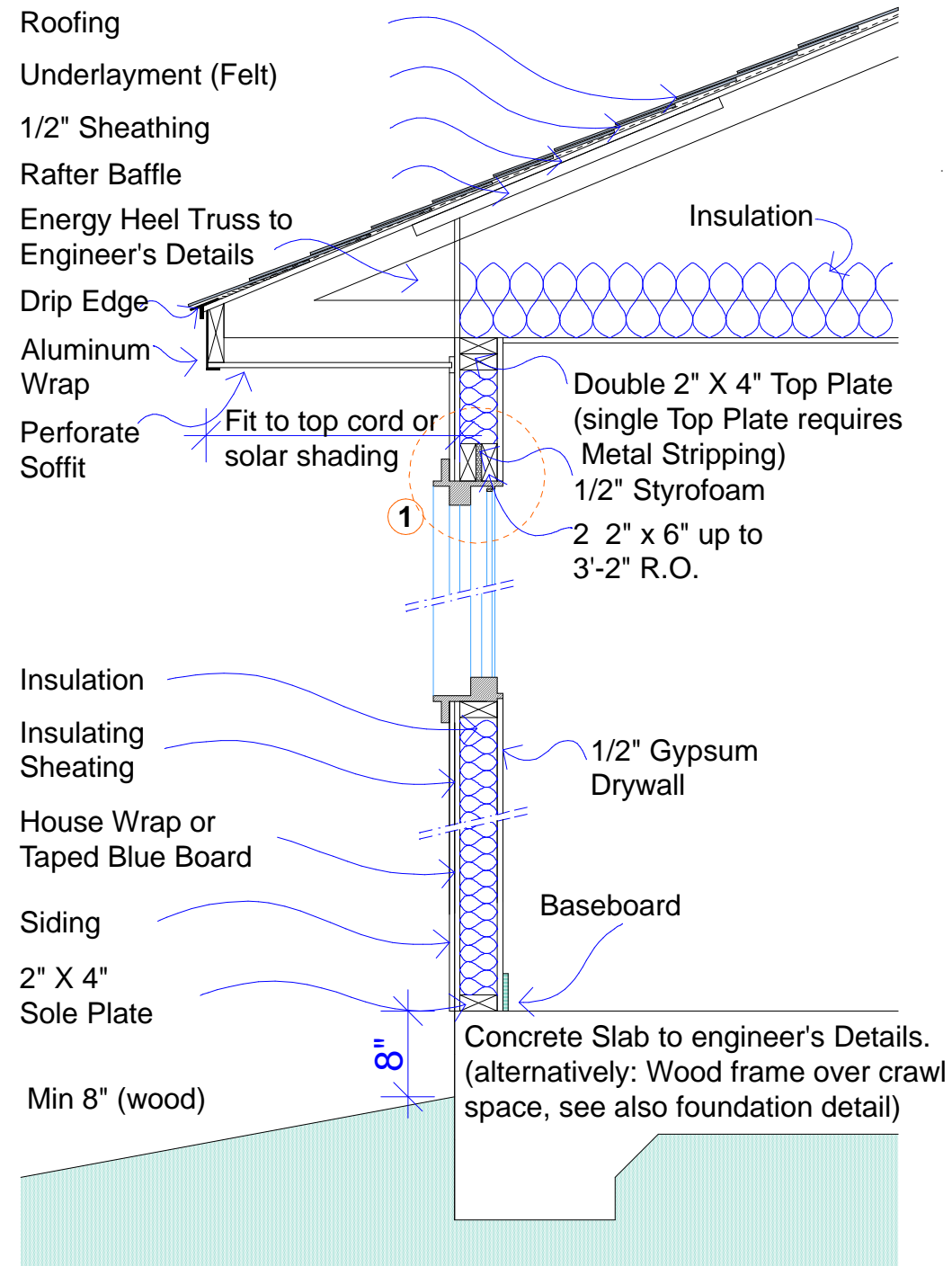
Stud Framing Detail

The following information is provided as a guide only. In all cases discuss with a local contractor or architect the construction technique most appropriate to your area. Check that the construction meets all local, state and federal codes.



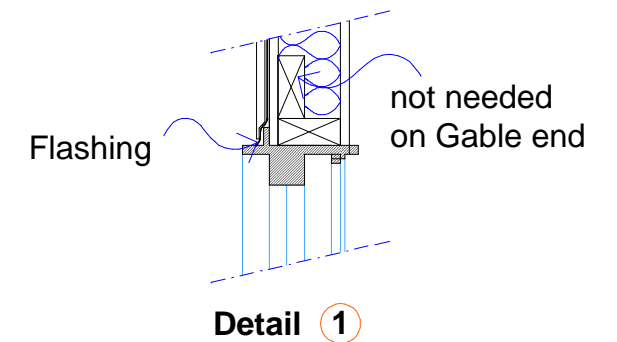
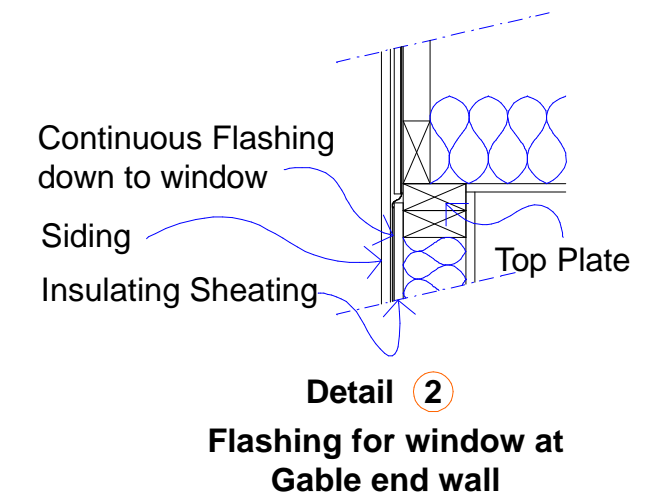
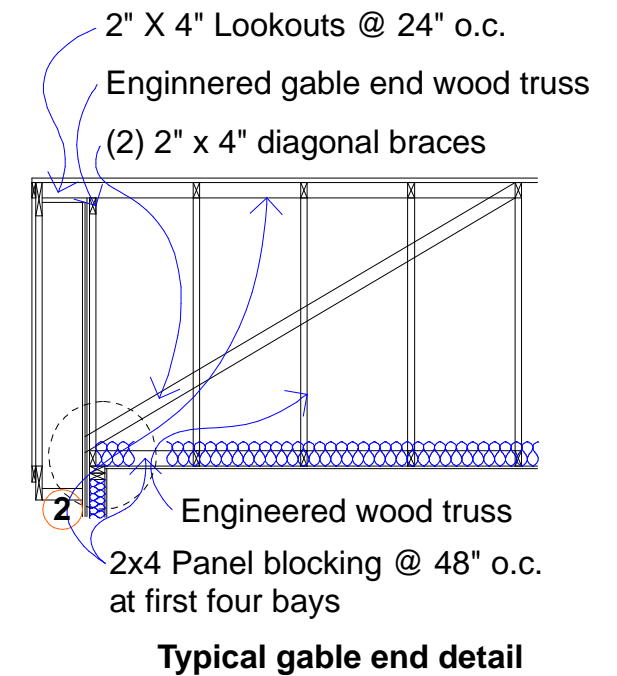
PLAN : TYPICAL WALL FRAMING DETAILS

- Note: (A) Blocking to be at least 12" at top, middle, and bottom. Insulate between blocking.
 (B) Bracing may be either plywood sheathing at corners (this decreases energy efficiency), Metal angle or 1" X 2" bead chaced into stud.
 (C) Top plates to overlap at corners/intersections.
 (D) Ensure that all wiring, plumbing, and ductwork penetrations are well sealed.



SECTION : TYPICAL WALL SECTION

- (E) Ensure that there are no voids in wall insulation.
 (F) Caulk under sole plate and around windows to provide " draft-stop."



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Accessible Features

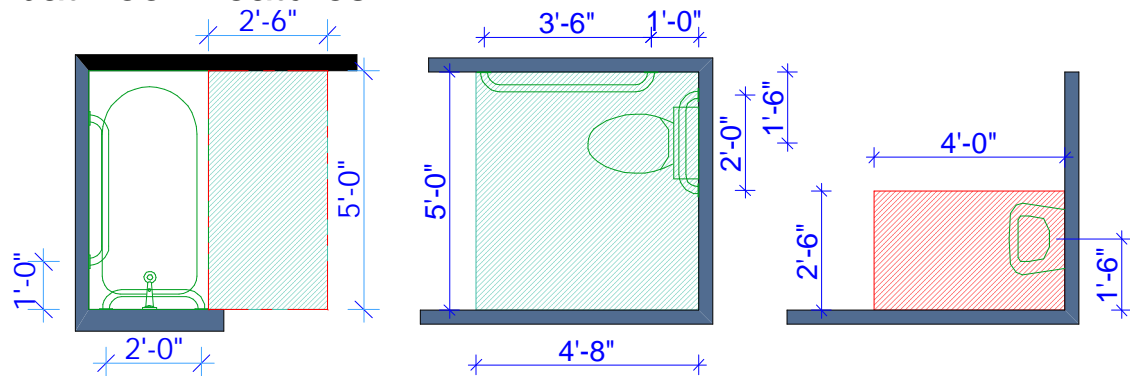
Habitat for Humanity International strongly encourages affiliates to incorporate design features for houses to be minimally adaptable to person with physical disabilities.

- * At least one no-step entrance (slope @ 1:20 or ramp @ 1:12 gradient)
- * Minimum 3'-0" wide doors
- * Minimum 3'-4" wide (frame to frame) in unobstructed hallways, 3'-6" (frame to frame), when doors are on either or both sides of the hallway
- * Kitchen which permit wheelchair maneuverability
- * Provision of grab bars or reinforcement of wall to accomodate the installation of grab bars at a later date
- * Electrical outlets at least 18 inches above the floor
- * Electrical switches and thermostats, at most, 42 inches above the floor
- * Provision of an accessible bathroom
- * Main electrical panel lower and on ground floor

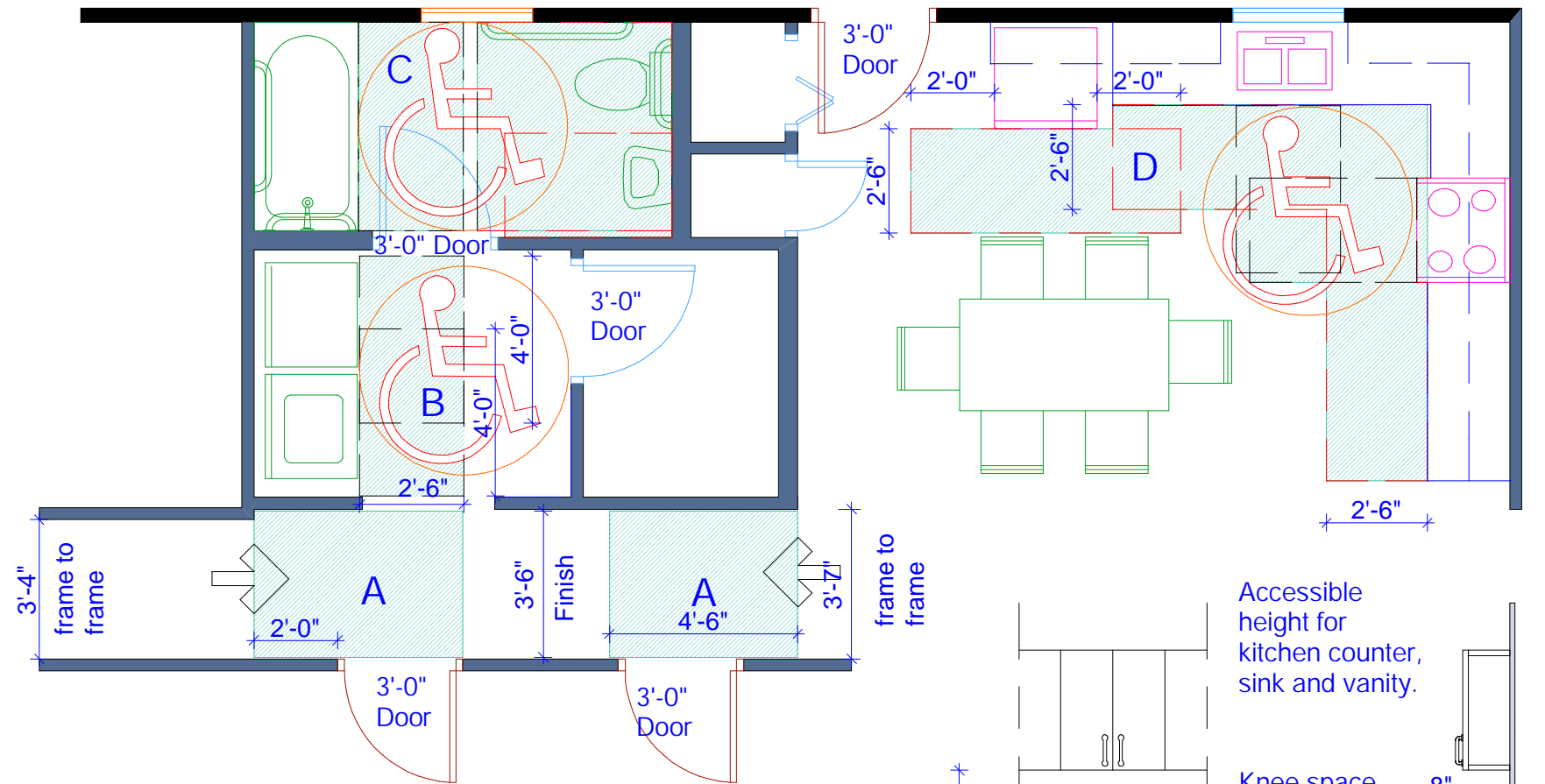
When constructing a house specifically for someone with a disability it is recommended that you consult with the following people:

- * The person with the disability
- * The person's family
- * The person's therapist (physical, occupational, rehabilitation)
- * A representative from the department of construction resources, who is able to review house plans and suggest modifications

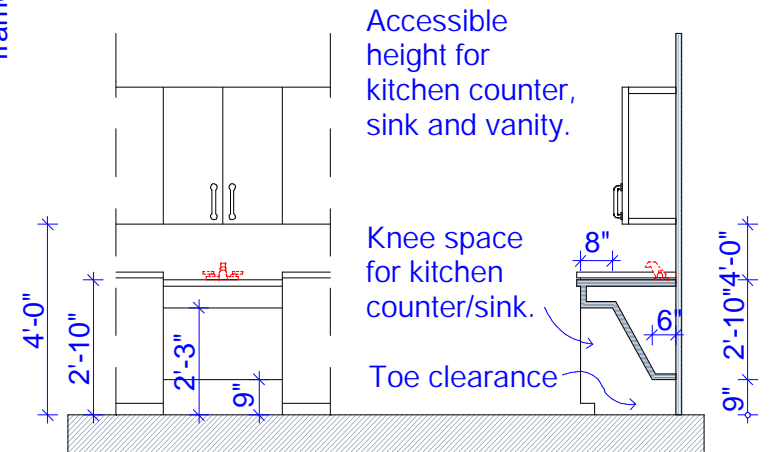
Grab bar locations and unobstructed clear floor for bathroom features



Note: Shaded area can be overlapped, providing a 5 foot turning circle is maintain



- A Minimum maneuvering clearances at doors to enable a person with a wheelchair to turn 90 degrees from the hallway
- B Unobstructed clear floor or ground space for laundry equipment
- C Unobstructed clear floor or ground space for bathroom features
- D Unobstructed clear floor or ground space for kitchen features



Wheelchair turning space

Approach direction

For further information please refer to our "Accessible Housing Manual". This publication is available from habitat order entry department, 1-800-422 5914. The publication number for this manual is: 3801.



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Door & Window Schedule

The following schedules are to be completed by the affiliate. They provide a guide to the information required when ordering doors and windows. Other doors and windows may be substituted in place of those specified below, but ensure that egress requirements as required by local code are met. As stated in the Habitat House Design criteria: "All passage doors, including the bathroom door, should be 3' - 0" minimum width".

DOOR NUMBER	SIZE	TYPE	FRAME	FINISH	HARDWARE	QUANTITY REQUIRED		NOTES
						LH	RH	
1	3'0" x 6'8"	Isolated metal *	Wood		Lever handle Deadbolt			Exterior
2	3'0" x 6'8"	Hollow core	Wood		Lever handle privacy lock bath			Interior
3	2'8" x 6'8"	Hollow core	Wood					Closet
4	2'8" x 6'8"	Hollow core bifold (single)	Wood					Closet
5	2'0" x 6'8"	Hollow core	Wood		WH Weatherstriped inc. threshold			Closet/ water heater c/closet
6	1'6" x 6'8"	Hollow core	Wood					Closet
7	5'0" x 6'8"	Hollow core bifold (double)	Wood					Laundry / C/closet
8	4'0" x 4'8"	Hollow core (double)	Wood		Weatherstriped inc. threshold			Water Heater/ Furnace closet
9	2'0" x 4'8"	Hollow core	Wood		Weatherstriped inc. threshold			Furnace closet
10	3'0" x 6'8"	Isolated metal *	Wood		Slide Deadbolt			Out swing egress, accessible feature
11	4'-0" x 6'8"	Hollow core bifold (double)	Wood					Laundry / C/closet
12	3'-0" x 6'8"	Hollow core bifold (single)	Wood					Closet
13	3'0" x 6'8"	Pocket Door Hollow Core	Wood		Privacy lock bath			Interior
14	2'6" x 6'8"	Hollow core bifold (single)	Wood					Interior
15	5'0" x 6'8"	French Door	Wood		Lever handle Deadbolt			Exterior / patio

WINDOW NUMBER	SIZE	TYPE	FRAME	FINISH	HARDWARE	QUANTITY REQUIRED	NOTES
1	3'0" x 5'0"	Single hung low-e, dbl panes	Vinyl/cald wood				
2	3'0" x 4'4"	Single hung low-e, dbl panes	Vinyl/cald wood				
3	2'8" x 3'0"	Double hung low-e, dbl panes	Vinyl/cald wood				Frosted glazing to bathroom
4	5'0" x 3'6"	Sliding low-e, dbl panes	Vinyl/cald wood				
5	3'-0" x 3'0"	Double hung low-e, dbl panes	Vinyl/cald wood				Frosted glazing to bathroom
6	7'-6" x 8'6"	Double hung low-e, dbl panes	Vinyl/cald wood				Half Circle window on top

*Extended trim as needed for width to fit stud and thickness of sheathing

KEY TO SYMBOLS USED

	Water Heater		Door number 1
	Furnace		Window number 1
	Elevation of typical single window		Elevation of typical sliding window
	Elevation of typical double window		Elevation of typical door
	Switch Coupled		110 Outlet
	Switch 3 Way		220 Outlet
	Switch 4 Way		Ground Fault Interrupt Outlet
	Wall Mounted Light Fixture		Refrigerator
	Ceiling Mounted Light Fixture		Stove
	Ceiling Mounted Fan Fixture		Sink 2 Bowl
			Washer - Dryer

DOOR NUMBER	WINDOW NUMBER	HEADER SPAN	BUILDING WIDTH (30 PSF ROOF LIVE LOAD)			BUILDING WIDTH (50 PSF ROOF LIVE LOAD)		
			24'-0"	26'-0"	28'-0"	24'-0"	26'-0"	28'-0"
D3-D4-D14	W3	2'-8"	2 - 2x4	2 - 2x4	2 - 2x4	2 - 2x6	2 - 2x6	2 - 2x6
D1-D2-D10-D12	W1-W2-W5	3'-0"	2 - 2x4	2 - 2x4	2 - 2x6	2 - 2x6	2 - 2x6	2 - 2x6
D8-D11		4'-0"	2 - 2x6	2 - 2x6	2 - 2x6	2 - 2x8	2 - 2x8	2 - 2x8
D7-D13	W4	5'-0"	2 - 2x8	2 - 2x8	2 - 2x8	2 - 2x10	2 - 2x10	2 - 2x10
		6'-0"	2 - 2x10	2 - 2x10	2 - 2x10	2 - 2x12	2 - 2x12	2 - 2x12



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GENERAL NOTES

The following information is provided as a guide only. In all cases discuss with a local builder, architect or contractor which construction techniques are the most appropriate to your area.

The following notes are arranged in 16 divisions using "TheUniform System" as developed by The Construction Specification Institute. These notes may be used as a starting point for writing a Basic House Description but affiliates will need to add further information and details. A materials list or quantity take-off is not included in this set of working drawings and will need to be produced by the affiliate in conjunction with local builder.

1. GENERAL

(1A-1) All construction to be in accordance with all local, state and federal codes.

2. SITEWORK

(2A-1) Site clearing: All trees and undergrowth located only within the perimeter of the house and in areas of driveways, walkways, and outbuildings are to be removed.

(2B-1) Excavating, Backfill and grading: Consult with local builder as to suitability of fill and backfill. Ensure that no footing rests on filled sub-base.

(2C-1) Soil treatment: Consider soil treatment for protection against damage from termites and other vermin

(2D-1) Driveway: Provide concrete driveway and connecting walkway leading to front entrance as appropriate. Provide ramp at front entry with maximum gradient of 1:12.

(2E-1) Landscaping: Consider extent of landscaping to be provided. retain existing vegetation where possible. Provide for drainage of water away from the house.

3. CONCRETE

(3A-1) Concrete slab and footings to be in accordance with engineer's details. (Details of footings are not included in this set of working drawings because the footings vary according to site conditions. The affiliate should work with a local engineer to produce the necessary drawings.

(3B-1) Retaining walls when required are to be in accordance with engineers details.

4. MASONRY

(4A-1) When concrete blocks are used as part of the foundation, construct in accordance with engineer's details.

5. METALS

(5A) Framing Fasteners and Nails

(5A-1) Provide hurricane anchor at each end of wood trusses.

(5A-2) Provide plywood clips at each center of each unsupported edge of plywood roof sheathing.

(5A-3) Nails and fasteners are to be of size and type to meet particular operation in industry acceptable terms. Use only hot dipped galvanized fasteners in exterior applications.

(5B) Hardware

(5B-1) Refer to door schedule for details of door hardware.

6. CARPENTRY

(6A-1) Roof framing usually consist of wood trusses, either prefabricated or constructed on site. roof framing drawings are not include in this set of working drawings and will need to be reproduced by the affiliate in conjunction with a local engineer/ truss manufacturer.

(6B) Rough Carpentry

(6B-1) Walls are generally constructed from 2" X 4" wood studs, with 2" X 6" wood studs being used on plumbing walls. Common walls will have special fire -resistance and sound-insulating requirements. Consult with local architect.

(6B-2) Floor framing: Provide floor joists in accordance with architect's / engineer's details.

(6B-3) Sub-floor when used is generally 3/4" plywood.

(6B-4) Roof sheathing is generally 1/2" plywood exterior grade.

(6B-5) Facia and sub-fascia to be presure treated timber.

(6B-6) Provide wood blocking as required for drywall, cabinets, electronic ceilings (if installed), and for future grab rails in the bathroom.

(6B-7) Stairs: Construct in accordance with architect's details. ensure compliance with local codes.

(6C) Kitchen Cabinets and Bath Vanity

(6C-1) Details of kitchen cabinets have not been included in this set of working drawings and will need to be produce by the affiliate. provide splashbacks to kitchen counters and to the kitchen sink.

(6C-2) Provide bath vanity



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GENERAL NOTES

7. TERMAL AND MOISTURE PROTECTION

- (7A-1) Vapor barriers and damp-proffing: consult with local builder/architect.
- (7B-1) Provide appropriate insulation at exterior walls, ceiling and flooring which is above grade.
- (7C-1) Roofing: Asphalt fiberglass shingles with felt underlayment are generally used. Provide flashing as required.
- (7D-1) Siding to exterior walls is generally vinyl siding, with corner trims.
- (7E-1) Provide adequate roof ventilation.

8. DOORS AND WINDOWS

Refer to door and window schedule.

9. FINISHES

(9A) Gypsum Drywall

- (9A-1) Provide 1/2" moisture resistant gypsum board to bathroom, laundry, and behind kitchen sink.
- (9A-2) Provide a/2" tapered edge gypsum board to all other interior walls and ceilings.
- (9A-3) Use construction adhesive in addition to screws/nails to fix gypsum drywall.

(9B) EXTERIOR FINISHES

- (9B-1) Paint finish to fascia and porch posts.

(9C) INTERIOR FINISHES

- (9C-1) Walls and ceilings are generally painted. Paint to be flat finish in all rooms, except bathroom, laundry and kitchen, which should be painted with a gloss or semi-gloss paint.
- (9C-2) Floors are generally covered with vinyl tiles or sheet vinyl.

10. SPECIALTIES

- (10A) Bathroom Accessories
- (10A-1) Provide towel rails
- (10A-2) Provide medicine cabinet with mirror
- (10A-3) Provide shower curtain, rod, chrome
- (10A-4) Providetissue paper holder
- (10A-5) Provide grab bars as required

(10B) Accessibility Standards

Habitat for Humanity International recomends that the following accessibility standards be incorporated into all houses by affiliates: (For further information refer to the HFH Planbook)

- (10B-1) Provide at least one no-step entrance (i.e. provide ramp with maximum gradient of 1:12)
- (10B-2) Doors to be minimum 3'-0" wide
- (10B-3) Hallways to be minimum 3'-4" wide
- (10B-4) Kitchen should permit wheelchair maneuverability
- (10B-5) Provide grab bars to bathroom or alternatively reinforce the bathroom walls with scrap pieces of lumber to accomodate the installation of grab bars at a later date.
- (10B-6) Position electrical outlets at least 18" above the floor.
- (10B-7) Position electrical switches and thermostats at most 42" above the floor.
- (10B-8) Provide lever door handles.
- (10B-9) Provide accessible bathroom where possible.

(10C) Energy Efficiency

- (10C-1) Refer to the HFH Planbook for information on Energy Efficient Design.

11. APPLIANCES

- (11A-1) Provide range to kitchen

12. NOT USED

13. NOT USED

14. NOT USED

15. PLUMBING / MECHANICAL

Basic mechanical drawings have been included in this set of working drawings. These drawing will need to be checked for suitability and compliancewith local codes.

- (15A-1) Provide kitchen sink, bathroom sink(s), bath with shower over tub, and toilet(s) as required.
- (15B-1) Provide plywood clips at each center of each unsupported edge of plywood roof sheathing.

16. ELECTRICAL

Basic electrical drawings have been included in this set of working drawings. These drawing will need to be checked for suitability and compliancewith local codes.

- (16A-1) Install vents as required and provide tight fitting dampers
- (16B-1) Provide telephone jacks as required



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Habitat House Design Criteria

As stated in Habitat for Humanity's Affiliate Covenant, affiliates' house construction practices should reflect the Habitat intent of building simple and decent houses as defined below.

New construction and rehabilitation projects may provide a set of circumstances with local code requirements or community covenants in which some of the guidelines cannot be met.

The following points comprise the criteria affiliates should incorporate into their house designs:

1. The living space provided--excluding stairwells (except to a basement) and exterior storage--should not exceed:
 - 900 square feet for a two-bedroom house.
 - 1,070 square feet for a three-bedroom house.
 - 1,230 square feet for a four-bedroom house.
2. The basic house should have only one bathroom and should be accessible to persons with disabilities. The bathroom may be compartmentalized for increased usefulness. Three-bedroom houses may have an additional half bath. Houses with four bedrooms or five or more people may have an additional full bathroom.
3. Family should have an opportunity to choose decorative finishes for their houses whenever possible.
4. A budget may be established with a predetermined limit (e.g., \$1,000) to allow the family to personalize their home with such features as appliances, fencing, shed, etc.
5. Each house should have a covered, primary entrance.
6. When feasible, at least one entrance to the house should be accessible to persons who have difficulty with mobility.
7. All passage doors, including the bathroom door, should be three feet (3'-0") wide. Halls should be three feet and five inches (3'-5") wide minimum from rough frame to rough frame. [Note: If there is a door in the hallway, the minimum width increases to three feet and seven inches (3'-7"). These standards allow for simple access for persons with disabilities. Further adaptations may be needed if a family member is disabled.
8. Homes should not have garages or carports.

Plans that conform to these guidelines are available in the Habitat for Humanity Planbook, item #3998, or as individual items. Call information resources at (800) 422-4828 to order. Plans are also available at partnernet.habitat.org.

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