

#### 

GROUND SNOW	WIND SPEED	SEISMIC		SUBJECT TO D	AMAGE FROM	WINTER	ICE SHIELD	ICE SHIELD UNDERLAY REQUIRED	FLOOD	www.F
LOAD (LB)	(MPH)	DESIGN CATEGORY	WEATHERING	FROST LINE DEPTH	TERMITE	DECAY	TEMP   F		HAZARD	348 MEDI CHARLES © COPYF
										NOTES:
										1 TI

# FREE GREEN

ESTOWN, MA 02129 YRIGHT BY FREEGREEN INC. ALL RIGHTS RESERVED.

THE CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA WILL VARY BY REGION FOR ANY PROJECT. FOR THIS REASON, FREEGREEN INC. CANNOT COMPLETE THIS TABLE UNTIL WE KNOW WHERE THE PROJECT SITE IS LOCATED. ONCE YOU HAVE A SITE LOCATION, PLEASE INQUIRE INTO OUR DESIGN SERVICES AT Design@FreeGreen.com

FEATURED PRODUCTS

#### www.FreeGreen.com

348 MEDFORD ST. SUITE 1 CHARLESTOWN, MA 02129

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RESIDENCE FOR:SITE ADDRESS:	BUILDER:ADDRESS:	ENGINEER: ADDRESS:	ARCHITECT: ADDRESS:
PHONE:	PHONE:	PHONE: E-MAIL:	PHONE:



#### BUILDING CODE COMPLIANCE

- Attention CA, OR, WA, and NV residents: Our house plans do not meet Earthquake Seismic/Wind - Attention GA, SC, and NC Coastal residents: Plans may have to be engineered to meet local - Attention AL, AZ, CO, CT, DE, FL, ID, LA, MD, MA, MN, NV, NH, NJ, NY, OH, PN, UT, and VA residents: Plans may have to be engineered to meet local building codes. Please call your local building department before placing order.

Some cities and states now require that a licensed architect or engineer review and "seal" a blueprint, or officially approve it, prior to construction. Prior to application for a building permit or the start of actual construction, we strongly advise that you consult your local building official who can tell you if

#### **HOUSE AREAS**

**UN-CONDITIONED CONDITIONED** CRAWL SPACE: -SUB LEVEL: -BASEMENT: -ENTRY LEVEL: 704 SF ATTIC: -UPPER LEVEL: -DECK/PATIO: 280 SF

TOTAL: 704 SF TOTAL: 280 SF THE ABOVE AREA CALCULATIONS ARE BASED ON THE METHOD LAID OUT IN ANSI STANDARD Z765



## ARCHITECTURAL

A-00-1 GENERAL NOTES

A-00-2 LEED-H RATING SYSTEM CHECKLIST A-00-3 NAHB GREEN BUILDING STANDARD

A-01-1 ELEVATIONS

A-01-2 ELEVATIONS

A-02-1 ENTRY LEVEL FLOOR PLAN

A-03-1 DETAILS 1

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A-03-3 DETAILS 3

A-03-4 DETAILS 4

A-04-1 FOUNDATION PLAN

A-04-2 ENTRY LEVEL FLOOR FRAMING PLAN

A-04-3 ALTERNATIVE FLOOR FRAMING PLAN

A-04-4 ROOF FRAMING PLAN

## **ELECTRICAL**

E-01-1 ENTRY LEVEL ELECTRICAL PLAN

## R-CONTROL SIP

P-01-1 R-CONTROL SIP PAGE

No.	Description	

THE CABIN

**COVER PAGE** 

- 1		
	PROJECT NUMBER:	10-001
	DATE:	29 MAY, 2009
	DRAWN BY:	MY
	CHECKED BY:	BU, SH
		- · · · -

CVR

SCALE

#### **GENERAL REQUIREMENTS:**

- 1. Owner / Client Responsibilities: Reference is made throughout these General Notes to responsibilities and standards of care to be fulfilled by those providing services in the development and construction of this project. Owner / Client shall be responsible for adherence to those requirements by the Owner, Builder, Developer, General Contractor, Subcontractors and other professional Consultants not retained by the Designer.
- 2. Builder's Set: The scope of this set of plans is to provide a "builder's set" of construction documents and general notes hereinafter referred to as "plans". After formal review and approval by a licensed engineer and or architect, this set of plans is sufficient to obtain a building permit; however, all materials and methods of construction necessary to complete the project are not necessarily described. The plans delineate and describe only locations, dimensions, types of materials and general methods of assembling or fastening. The FreeGreen Specification book received with this plan set specifies the particular products or materials recommended for this home design. The implementation of these plans requires an Owner/ Client/ Contractor thoroughly knowledgeable with the applicable building codes and methods of construction specific to this product type and type of construction.
- 3. Building Maintenance: The exposed materials used in the construction of this project will deteriorate as the completed project ages unless properly and routinely maintained. Owner / Client shall provide or cause the development of a plan to keep these exposed materials protected and maintained.
- 4. Codes: All construction shall comply with the most stringent requirements of all current applicable city, county, state and federal laws, rules, codes, ordinances and regulations. If the General Contractor or any Subcontractor performs any work in conflict with the above mentioned laws, rules, codes, ordinances and regulations, then the contractor in violation shall bear all costs of repair arising out of the non conforming work.
- 5. Permits: The general building permit and plan check shall be secured and paid for by Owner /Client. All others permits shall be secured and paid for by the Subcontractor directly responsible.
- 6. Insurance: The General Contractor and every Subcontractor performing work or providing services and/ or materials for the work are required to purchase and maintain in force "All Risk" Builders Insurance prior to commencement of the work and/ or furnishing labor, services and materials. Each "All Risk" policy shall be in an amount sufficient to cover the replacement value of the work being performed and/ or the labor, services and materials being supplied by the General Contractor, Subcontractors, Designer, and all professional Consultants.
- 7. Insurance: Owner/ Client shall cause the General Contractor and every Subcontractor performing work or providing services and / or materials for the work to purchase and maintain General Liability Insurance.
- 8. Named Products: The Designer makes no guarantee for products identified by trade name or manufacturer.
- 9. Scope: The General Contractor and Subcontractors shall furnish all labor, equipment, and material indicated on the plans and reasonably inferred or required by the applicable codes.
- 10. Substitution: Substitutions of specific materials or products listed on the FreeGreen Specification Sheet shall not be made without written authorization by Owner/ Client. The General Contractor and any Subcontractor shall not make the structural substitutions or changes without prior written authorization from the structural engineer.
- 11. Changes: Any addition, deletion, or change in the scope of the work described by the plans shall be by written change order only. Any approval from the building official for a change in the work shall be the responsibility of the General Contractor.
- 12. Intention: The General Contractor shall ensure that all labor, materials, equipment and transportation shall be included in the work for complete execution of the project. The Designer shall not be responsible for the means and methods of construction.
- 13. Review of Drawings: The General Contractor and all Subcontractors shall review the full content of the plans for discrepancies and omissions prior to commencement of work. The General Contractor and all Subcontractors shall be responsible for any work not in conformance with the plans or in conflict with any code.
- 14. Use of the Drawings: Dimensions take precedence over scaled measurements. Details and sections on the drawings are shown at specific locations and are intended to show general requirements throughout. Details noted "typical" imply all like conditions treated similarly, unless noted otherwise. The architectural details shown are intended to further illustrate the visual design concept and the minimum recommended weather protection for this project. Building code requirements, structural considerations, trade association manuals and publications and product manufacturer's written instructions shall also be considered in order to complete the construction of the details, and in some cases may supercede the details.
- 15. Approved Drawings: The General Contractor shall be responsible for coordinating the work between the different Subcontractors and requiring all Subcontractors to use the most current building department approved set of plans.
- 16. Cutting and Patching: All Subcontractors shall do their own cutting, fitting, patching, etc. to make the several parts come together properly and fit it to receive the work of other trades.
- 17. Clean up: All trades shall, at all times, keep the premises free from accumulation of waste materials or rubbish caused by their work. Subcontractors shall remove all rubbish, tools, scaffolding and surplus materials and leave the job in a broom clean condition. All fixtures, equipment, glazing, floors, etc., shall be left clean and ready for occupancy upon completion of the project.
- 18. Storage of Materials: The General Contractor and Subcontractors shall be responsible for storing the materials on the site according to material suppliers' or manufacturers' instructions. The materials shall be kept secure and protected from moisture, pests, and vandals. Any loss arising out of materials stored at the site shall be the responsibility of the General Contractor or Subcontractor who stored the damaged or lost materials.

#### **ROUGH CARPENTRY:**

#### 1. Framing:

- A. Blocking and Bridging:
  - (1) Stud Walls: Per applicable building code. Full height walls shall have continuous studs from bottom to top plate.
  - (2) Ceiling Joists: Per applicable building code. Use solid bridging.
  - (3) Backing: Provide solid backing at all pendant or surface mounted electrical fixtures, rails, grab bars, bath accessories, etc.
- Fire stopping: Per applicable building code.
- C. Stud Walls: Per applicable building code. All studs to have full bearing on plate. All studs to be at 16" O.C. unless noted otherwise. Studs to be sized per requirements of code.
- . Use continuous, full height studs in accordance with the highest standard of construction and framing practices.
- E. All angled walls to be at 45 degrees unless noted otherwise
- F. Built up roofs, waterproof balcony decks and exterior horizontal areas are to be framed with slope to ensure water drainage without ponding.
- G. Provide crickets as indicated and as necessary for proper water drainage and to redirect channeled or run off water away from vertical surfaces.
- H. Provide blocking where required to provide uniform surface where flush joists and beams are different depths.
- I. Use mitered joints at fascia splices.
- J. Unless otherwise noted, all dimensions to exterior walls are given from inside or outside face of rough framing. All dimensions to interior partitions are given from centerline of rough framing.
- K. Align bottom of all adjacent window and door headers, unless noted otherwise on framing

#### 2. Trusses:

- The General Contractor shall have City/ County approved truss plans on the job site prior to foundation inspection. The Truss Manufacturer shall submit calculations, shop drawings, details, bridging and erection bracing signed by a registered Engineer to the
- Building Department and Structural Engineer, for their review prior to fabrication.

  B. Truss manufactures shall provide members of adequate bearing area in such a width to insure against over stressing of supporting timber, multiple joists, girders and plates or provide bearing plates and details to do same.
- C. The General Contractor shall coordinate with the Truss Manufacturer, Framing, Electrical, Plumbing and Mechanical Contractors at fire protected areas to maintain required fire protection without penetrations unless allowed by code and local jurisdiction.

#### **FINISH CARPENTRY:**

#### 1. Scope:

- A. Furnish and install all finish carpentry complete, including trim, door frames, paneling and shelving.
- B. Installation of finish hardware, bath accessories, cabinet pulls, etc.

#### 2. Workmanship:

- A. All joints shall be tight and true and securely fastened. Corners shall be neatly mitered,
- butted, or coped, with nails set and surfaces free of tool marks.
- B. Wood work shall be accurately scribed to fit adjoining surfaces.C. All work shall be machined or hand sanded, sharp edges and splinters removed, and completely prepared for finish.
- D. Full length continuous boards shall be used wherever applicable or specifically noted.3. Fitting and Hanging Doors:
- A. Each door shall be accurately cut, trimmed, and fitted to its respective frame and
  - hardware with due allowance for painter's finishes.

    B. Clearance at the lock and hanging stiles and at the top shall not exceed 1/8". Clearance at the bottom shall be adjusted for finish floor covering.
  - C. Lock stile edges shall be beveled.
  - D. Door shall operate freely, but not loosely, without sticking or binding, without hinge bound conditions, and with all hardware properly adjusted and functioning.

#### 4. Materials:

- A. Door frames: Frames shall be set plumb and true, rigidly secured, and protected during the course of construction
- the course of construction.

  B. Door Stops and Casing: Size and profile as selected by Owner/ Client.
- C. Exterior Trim: Refer to drawings for exterior trim material & sizes. For wood, medium dencity overlay (MDO) or fiber cement, all cut sides/faces/edges must be primed and painted. If specific product brand is specified on drawings, see manufacturers
- specifications and installation instructions.

  Interior Trim:
- (1) Interior Rails: Clear material, finished to match casework.
- (2) Window Trim: 1x clear wood to match casework or as noted in drawings (verify with Owner/Client).
- (3) Base Boards: As noted in drawings or approved by Owner/Client.

#### **INSULATION:**

#### 1. Installation:

- A. Thermal Insulation: Install insulation between joists, below all roof surfaces, and areas including any vertical wall areas separating living spaces from unconditioned space and between studs at all exterior walls. Insulation shall be securely installed and tightly fitted without compressing the normal Loft thickness. Provide insulation stops/ baffles as required to prevent obstruction of vents.
- B. Sound insulation: Install insulation between studs, securely and tightly fitted at walls as indicated on drawings.
- C. Plumbing insulation: All domestic hot water piping shall have R-4 insulation. Insulation
- shall be properly installed on all piping elbows to adequately insulate the 90 degree bend.

  D. The General Contractor and Subcontractors shall be responsible for storing the materials
- on the site according to material supplier's or manufacturers' instructions. The materials shall be kept secure and protected from moisture.

#### 2. Materials:

- A. At a minimum, all insulation specified for this house meets or exceeds the R-value requirements listed in Chapter 4 of the 2004 International Energy Conservation Code and also the Grade II specifications set by the National Home Energy Rating Standards.
- A pre-drywall thermal bypass inspection must be performed by a qualified rater.

#### THERMAL & MOISTURE PROTECTION:

#### 1. Foundations:

- A. Provide adequate drainage away from walls & foundations.
- B. Seal all plumbing, electrical and other penetrations of walls and floors and seal joints.
- C. Slope final grade away from foundation.
- D. Provide capillary break at all concrete slabs (poly not req. if <20" rainfall; gravel not req. for free draining soils = IRC Group 1.
- E. Exterior surface of below grade walls damp proofed or water proofed.
- F. Slope garage floor towards main vehicle entry.
- G. Foundation cont. footing drain with stone covered with filter fabric, drained to daylight.
  H. Basement foundation walls use porous backfill material.
- Provide cont. crushed stone under footings.

  Provide rigid insulation as specified directly under slab.

#### 2. Walls:A. Install windows, doors, exterior cladding, flashings & sealants as detailed in this

- drawing set.

  B. All deck ledgers must be pressure treated material.
- C. All penetrations that pass through exterior cladding into structure must be fully sealed.
   D. Install materials with proper detailing to control degradation from moisture.

## 3. Roofs: A. Ice flashing over sheathing at eaves (except climates CZ1-4).

- Metal drip edge at all exposed roof decking.
   Rituminous membrane at all eaves, valleys & penetrations (not req. if <20" rainfa</li>
- Bituminous membrane at all eaves, valleys & penetrations (not req. if <20" rainfall).

  Step flashing at all roof/wall intersections & terminated with "kickout" flashing.
- E. Installed system for diverting roof water from house. (e.g. gutters).
- F. No. 30 roof felt underlayment minimum.
- G. Reduce ice dams: No non-airtight recessed light fixtures in insulated ceilings.

#### H. Roof insulation as specified in this drawing set.4. Wet Rooms:

- A. Install drains or drain pans to capture leaks under water heaters or use tankless
- B. Properly install washer and water heater drain pans.
- C. Use highly durable materials in wet areas.D. Install no carpet in kitchens, bathrooms, spa areas, or within 3" of exterior door.

#### E. Use nonpaper-faced backer board on walls in tub, shower and spa areas. 5. Air Infiltration:

- A. Install "IC" airtight rated recessed lights in insulated ceilings.
- B. Complete air barrier between attic and conditioned space & all penetrations sealed.C. Air filter housings must be airtight to prevent bypass or leakage.
- D. Air seal ventilation ductwork.

#### 6. Interstitial Condensation:

- A. Clothes dryers vented outdoors.
- B. Insulate all cold water pipes and avoid plumbing in exterior walls.
- C. >1 Perm finish on inside of exterior walls.
- (only req. in hot/humid & mixed/humid climates)

#### 7. Heat Loss:A. Insulate all ventilation exhaust ductwork (min R-8) outside of the insulated envelope.

- B. R-5 slab edge insulation break at foundation wall intersection & R-10 slab edge
- insulation outward of any walk-out slab edge.

  C. Install insulation wind baffles at attic eave bays.

#### 8. Ultraviolet Radiation:

- A. Install materials with proper detailing to control degradation from sun.9. Other:
  - A. Minimum 25-year expected lifetime roof warranty.
  - B. Define "proper refrigerant charge" to be within 10% of manufacturer recommendations.
  - C. Mechanical equipment must be accessible for service, including AC condensate drain pan & trap.
  - pan & trap.
    Use rigid duct or other methods to keep fan back-pressure below 0.2" for EOV systems.

#### **HEATING, VENTILATION & AIR CONDITIONING:**

## 1.Scope:

- Supply all labor, transportation, material, etc., for installation of a complete heating and air conditioning system to operate according to all applicable standards and best practices of the trade including, but not limited to: mechanical units, ducts, registers, catwalks, grilles, boots, vent pipes, dampers, combustion air, fans, ventilators, refrigerant, etc. All materials, work, etc., to comply with all requirements of all legally constituted public authorities having jurisdiction including all county and state ordinances. Furnish and install all equipment complete and operable. Verify all material and installation requirements
- and limitations at fire and sound assemblies.

  Provide rubberized asphaltic membrane materials at all penetrations of the water -

#### resistive membrane at exterior walls.

- 2. Installation:A. Provide required clearances for duct work and to combustibles.
  - B. Provide a permanent electric outlet and switched light fixture wherever equipment is
  - installed.

    C. No alterations to the structural frame, diaphragms, connections or shear panels shall be
  - made without prior written approval from the Structural Engineer.
  - D. No equipment located in garages.
     E. All combustion equipment shall be directly vented with an outdoor combustion air supply.
  - F. All penetrations of fire assemblies shall meet the requirements of the building code and Section 7D.

    All HVAC equipment shall be approved prior to installation per nationally recognized.
  - G. All HVAC equipment shall be approved prior to installation per nationally recognized standards and evidenced by listing and label of an approved agency.
  - H. Combustion air from outside shall be supplied to all fuel burning appliances.
    I. Install air filters with a minimum efficiency reporting value (MERV) ≥ 10 and ensure that air handlers can maintain adequate pressure and air flow. Air filter housings must be air
  - tight to prevent bypass or leakage.

    All fixed appliances are required to be securely fastened in place. Provide seismic bracing or anchor unit to platform where appropriate.
  - Install centralized HVAC system equipped with additional controls to operate in dehumidification mode.
  - Condenser pad or compressor from ground must not be less than 3" above grade.
     The General Contractor and Subcontractors shall be responsible for storing the materials on the site according to material supplier's or manufacturers' instructions. The materials shall be kept secure and protected from moisture.

#### **ELECTRICAL:**

#### 1. Scope:

- Supply all labor, transportation, materials, etc, for installation of complete electrical system to operate according to the best practices of the trade and including but not limited to: Fixtures, appliances, wiring, switches, outlets, television jacks, services, grounds, temporary power, junction boxes, conduit, sub panels, etc. All work, materials, etc, to comply with all requirements of all legally constituted authorities having jurisdiction including all County and State ordinances. Furnish and install electrical work complete and operable. Verify all material and installation requirements and limitations at fire and sound assemblies.
- B. Provide rubberized asphaltic membrane materials at all penetrations of the water-resistive membrane at exterior walls.

#### 2. Installation:

- A. Electrical system installed according to latest version of N.E.C or local code, whichever is more stringent
- B. Provide separate circuits each for dishwasher, garbage disposal, refrigerator, washer, dryer, F.A.U. and microwave oven.
- C. Switched outlets shall be ½ hot.
- D. Bathroom and Kitchen fans: Install local exhaust systems in all bathrooms and in the kitchen to meet the requirements of section 5 of ASHRAE Standard 62.2-2007. Design and install fan ducts to meet the requirements of section 7 of ASHRAE Standard 62.2-2007. Exhaust air to outdoors and also use ENERGY STAR labeled bathroom exhaust fans.
- E. For every bathroom exhaust fan, install an occupancy sensor or an automatic humidistat controller or an automatic timer to operate the fan for a timed interval after occupant leaves the room or a continuously operating exhaust fan.
- F. All fixtures, outlets, receptacles etc., penetrating fire assemblies shall be rated and installed to meet the requirements of the building code. Outlet boxes on opposite sides of fire assembly walls shall be separated by a horizontal distance of at least 24".
- G. All equipment installed outdoors and exposed to weather shall be weatherproof.
   H. Provide ground fault circuit interrupters, G.F.C.I., at all baths, garages, out-door and wet area outlets. All branch circuits that supply 125 volt single phase, 15 and 20 ampere receptacle outlets installed in dwelling unit bedrooms shall be protected by an arc fault circuit interruptor(s).
- I. Each conductor of every system shall be permanently tagged in compliance with O.S.H.A
   J. The complete electrical system shall be grounded in accordance with the presently
- adopted edition of the N.E.C., Art. #250. Proper ground requires #4 copper wire, 20' 0" long, embedded into concrete and provide bond to gas or water line.

  K. Use only competent and skilled personnel and perform all work, including aesthetic as
- or the trade.

  No alterations to the structural frame, diaphragms, connections or shear panels shall be made without approval from the Structural Engineer.

well as electrical and mechanical aspects to standards consistent with the best practices

## PLUMBING:

#### 1 Coope

- A. Supply all labor, transportation, materials, etc. for installation of complete plumbing system to operate according to the best practices of the trade and including but not limited to: fixtures, hot and cold water piping, exhaust flues, combustion air, gas piping, log lighters, drains, soil and vent piping, hot water heaters, pipe insulation, meters, valves, vaults, etc. All materials, work, etc. to comply with all requirements of all legally constituted public authorities having jurisdiction including all county and state ordinances. Furnish and install plumbing work complete and operable,
- including trenching and backfilling. Verify all material and installation requirements and limitations at fire and sound assemblies.

  B. Provide rubberized asphaltic membrane materials at all penetrations of the water -
- resistive membrane at exterior walls.

  C. Protect pipes from freezing. Place all water lines and waste lines within "conditioned"

#### space and where approved thermal insulation is between "line" and unheated area. 2.Installation:

- A. Roughing-in shall be completed, tested and inspected as required by code before closing
- B. Openings in pipes, drains, and fittings shall be kept covered during construction.
- C. Provide solid backing for securing fixtures. All fixtures to be set level.D. Provide cleanouts at ends of all lines and where required by codes.
- E. Copper tubing shall be fully sweated to fittings.
- F. Black iron and galvanized steel pipe joints shall be made with approved pipe thread compound.
- G. Provide shut- off valves at each fixture.
  H. Provide condensate line at each F.A.U location. Provide primary & secondary condensate
- line to an approved drainage receptacle at attic F.A.U locations. Install condensate line for each piece of condensating HVAC equipment per manufactureres specifications.

  I. Provide cold water line to refrigerator space in recessed box or in cabinet immediately
- adjacent to refrigerator space.
   J. Isolate all piping from structure with fiber padding and at all penetrations with elastic caulking or sound isolators.
- All vents to lead to outside air, where possible, locate all roof vents to rear side or ridges.
   Vents to terminate a minimum of 3'-0" from windows.
   All horizontal A.B.S. piping shall be hung with approved hangers at 4'-0" on center minimum and spaced to permit expansion and contraction without hitting adjoining pipe.
- Vertical piping shall be supported at 8'-0" on center with wrought steel "U" straps securely fastened to building frame.

  M. Provide air chambers at lavatory, dishwasher and clothes washer water connections. Set
- N. Provide ¾" tee for irrigation at main shut-off.
   O. Provide water heater with pressure/ temperature relief value.

vertically as close to fixture as possible.

O. Provide water heater with pressure/ temperature relief valve and pan and drain line piped to the exterior of the buildings.
P. All combustion equipment shall be directly vented.

No alterations to the structural frame, diaphragms, connections or shear panels shall be

- made without prior written approval from the structural Engineer.

  R. Provide non- removable backflow device on all exterior hose bibs.
- S. A 12" minimum access panel to bathtub trap connection is required.
   T. Provide pressure regulator for water service where pressure exceeds 80 psi
   U. Provide drain pan under washer with drain in laundry room and shut off valve if washer is
  - located above living space.

    Provide solid metal pipe for dryer vent to exterior. Do not install screen on dryer vent.

    Provide energy efficient dryer vent (with floating shuttle).

# FREE GREEN

#### www.FreeGreen.com

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NOTES:

REVISION SCHEDULE:

No. Description Date

THE CABIN

GENERAL NOTES

PROJECT NUMBER: 10-001

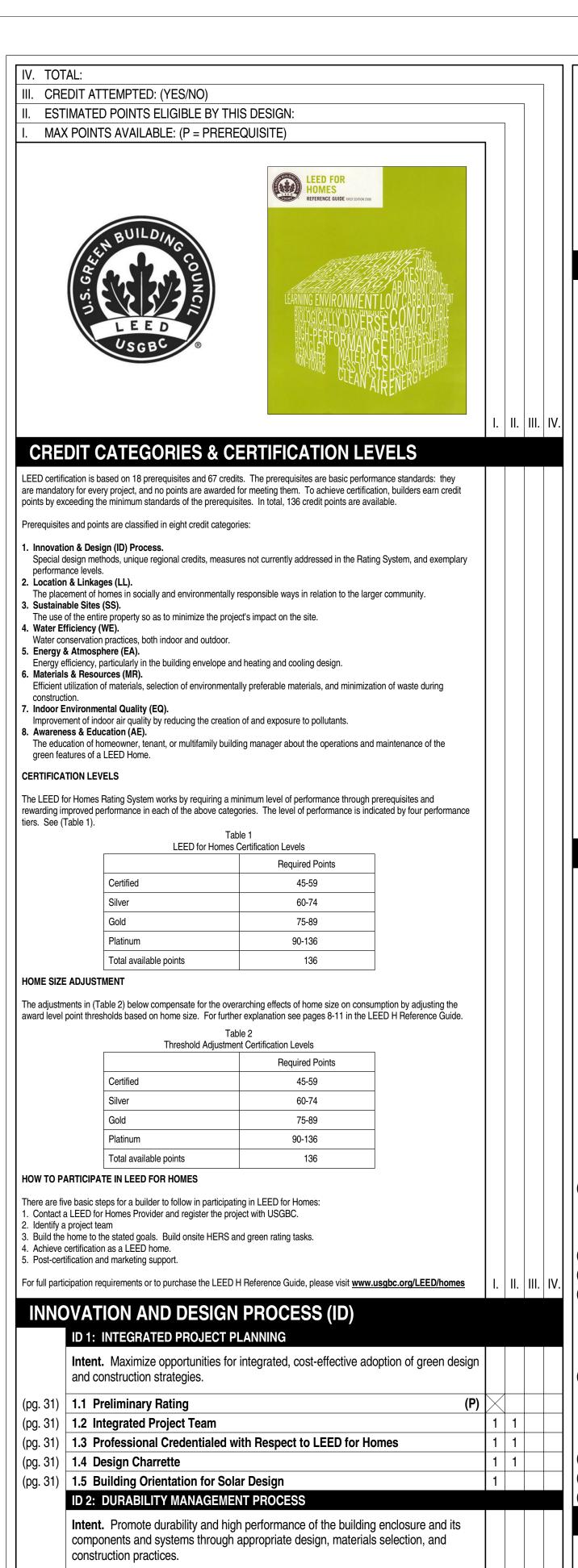
DATE: 29 MAY, 2009

DRAWN BY: MY

CHECKED BY: BU, SH

A-00-1

SCALE



(pg. 37) | **2.1 Durability Planning** 

(pg. 37) **2.2 Durability Management** 

(pg. 37) | 2.3 Third-Party Durability Management Verification

		I.	II.	III.	IV.		
	ID 3: INNOVATIVE OR REGIONAL DESIGN						
	Intent. Minimize the environmental impact of the home by incorporating additional green design and construction measures that have tangible and demonstrable benefits beyond those in the LEED for Homes Rating System.					(pg.	145
pg. 45)	3.1 Innovation #1	1				(pg.	
pg. 45)	3.2 Innovation #2	1				(pg.	146
pg. 45)	3.3 Innovation #3	1					
pg. 45)	3.4 Innovation #4	I				(pg.	159
LUC	ATION AND LINKAGES (LL)  LL 1: LEED FOR NEIGHBORHOOD DEVELOPMENT					(pg.	
	Intent. Minimize the environmental impact of land development practices by building homes in LEED for Neighborhood Development certified developments.					Ε	NE
pg. 51)	1 LEED for Neighborhood Development (OR LL 2-6)	10					
	LL 2: SITE SELECTION					(pg.	160
FF\	Intent. Avoid development on environmentally sensitive sites.					(pg.	
pg. 55)	2 Site Selection LL 3: PREFERRED LOCATIONS	2				"	
	Intent. Encourage the building of LEED homes near or within existing communities.						
pg. 59)	3.1 Edge Development	1				(pg.	
pg. 59)	3.2 Infill (OR LL 3.1)	2				(pg.	179
pg. 59)	3.3 Previously Developed	1					
	LL 4: INFRASTRUCTURE  Intent Encourage the building of LEED homes in developments that are served.						
	Intent. Encourage the building of LEED homes in developments that are served by or are near existing infrastructure (i.e., sewers and water supply).					(pg.	
pg. 65)	4 Existing Infrastructure	1				(pg.	
	LL 5: COMMUNITY RESOURCES / TRANSIT					(pg.	100
	Intent. Encourage the building of LEED homes in development patterns that allow for walking, biking, or public transit (thereby minimizing dependency on personal automobiles and their associated environmental impacts.					(pg.	190
pg. 69)	5.1 Basic Community Resources / Transit	1				(pg.	
pg. 69)	5.2 Extensive Community Resources / Transit (OR LL 5.1, 5.3)	2				(pg.	
og. 69)	<b>5.3 Outstanding Community Resources / Transit</b> (OR LL 5.1, 5.2)	3					
	LL 6: ACCESS TO OPEN SPACE						
	<b>Intent.</b> Provide open space to encourage walking, physical activity, and time spent outdoors.					(pg.	195
pg. 75)	6 Access to Open Space	1				(pg.	
	TAINABLE SITES (SS)					(pg.	195
	SS 1: SITE STEWARDSHIP						
	Intent. Minimize the environmental damage to the building lot during the construction					<u> </u>	
	process.					(pg. (pg.	
og. 81)	1.1 Erosion Controls During Construction (P)	X				(pg.	
pg. 81)	1.2 Minimize Disturbed Area of Site SS 2: LANDSCAPING	I				"	
	Intent. Design landscape features to avoid invasive species and minimize demand for						
	water and synthetic chemicals.						
og. 89)	2.1 No Invasive Plants (P)	X				(pg.	207
og. 89) og. 89)	2.2 Basic Landscape Design (OR SS 2.5) 2.3 Limit Conventional Turf (OR SS 2.5)	3				(pg.	208
og. 89)	2.4 Drought-Tolerant Plants (OR SS 2.5)	2				(pg.	208
pg. 90)	2.5 Reduce Overall Irrigation Demand by at Least 20%	6					
	SS 3: LOCAL HEAT ISLAND EFFECTS					/na	010
	Intent. Design landscape features to reduce local heat island effects.					(pg. (pg.	
g. 111)	3 Reduce Local Heat Island Effects SS 4: SURFACE WATER MANAGEMENT	1				(pg.	
	Intent. Design site features to minimize erosion and runoff from the home site.						
g. 115)	4.1 Permeable Lot	4					
og. 115)		1				(pg.	
g. 115)	4.3 Management of Runoff from Roof	2				(pg.	217
	SS 5: NONTOXIC PEST CONTROL						
	<b>Intent.</b> Design home features to minimize the need for poisons for control of insects, rodents, and other pests.						
og. 125)	5 Pest Control Alternatives	2				(pg.	221
	SS 6: COMPACT DEVELOPMENT						
	<b>Intent.</b> Make use of compact development patterns to conserve land and promote community livability, transportation efficiency, and walkability.						
na 129)	6.1 Moderate Density	2				(pg.	
ng. 129) ng. 129)	6.2 High Density (OR SS 6.1, 6.3)					(pg.	
-		4				V	IA <sup>*</sup>
g. 129)	ER EFFICIENCY (WE)						
	WE 1: WATER REUSE					,	<u> </u>
	WE II WATERTIESSE		i .		1	(pg.	235
	Intent. Use municipal recycled water or offset central water supply through the					/n~	ייני
WAT	Intent. Use municipal recycled water or offset central water supply through the capture and controlled reuse of rainwater and/or graywater.	A				(pg.	
og. 129) WAT  og. 135) og. 135)	Intent. Use municipal recycled water or offset central water supply through the	4				(pg. (pg. (pg.	235

		I. II. III. IV	.] [		I. II. I	III. IV.
	WE 2: IRRIGATION SYSTEM			MR 2: ENVIRONMENTALLY PREFERABLE PRODUCTS		
	Intent. Minimize outdoor demand for water through water-efficient irrigation.		7	Intent. Increased demand for environmentally preferable products and products or		
g. 145)	2.1 High-Efficiency Irrigation System (OR WE 2.3)	3	+	building components that are extracted, processed, and manufactured within the		
	2.2 Third-Party Inspection (OR WE 2.3)	1		region.  2.1 FSC-Certified Tropical Wood (P)		+
j. 146)	2.3 Reduce Overall Irrigation Demand by at Least 45%	4	11"	2.2 Environmentally Preferable Products	8	
	WE 3: INDOOR WATER USE			MR 3: WASTE MANAGEMENT		
>	Intent. Minimize outdoor demand for water through water-efficient irrigation.		41	Intent. Reduce waste generated to a level below the industry norm.		
•	3.1 High-Efficiency Fixtures and Fittings 3.2 Very High-Efficiency Fixtures and Fittings	6	(pg. 261)	3.1 Construction Waste Management Planning (P)		
	RGY & ATMOSPHERE (EA)	0	•	3.2 Construction Waste Reduction	3	
	EA 1: OPTIMIZE ENERGY PERFORMANCE		INDO	OOR ENVIRONMENTAL QUALITY (EQ)		
	Intent. Improve the overall energy performance of a home by meeting or exceeding		1	IQ 1: ENERGY STAR WITH INDOOR AIR PACKAGE		
	the performance of an ENERGY STAR labeled home.			<b>Intent.</b> Improve the overall quality of a home's indoor environment by installing an approved bundle of air quality measures.		
. 169)	1.1 Performance of ENERGY STAR for Homes (OR EA 2-11) (P)		(ng 272)	1.1 ENERGY STAR with Indoor Air Package (OR IQ 2-10)	13	+
. 169)	1.2 Exceptional Energy Performance (OR EA 2-11)	34	□ (ρg. 273) □	IQ 2: COMBUSTION VENTING	10	
	EA 2: INSULATION		٩١	Intent. Minimize the leakage of combustion gases into the occupied space of the		
170\	Intent. Design and install insulation to minimize heat transfer and thermal bridging.	(D)		home.		
-	2.1 Basic Insulation       (OR EA 1, 7.1, 7.2) (P)         2.2 Enhanced Insulation       (OR EA 1, 7.1, 7.2)	(P) 2	11	2.1 Basic Combustion Venting Measures (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P)	(P)	$\perp$
-,	EA 3: AIR INFILTRATION		(pg. 277)	<b>2.2 Enhanced Combustion Venting Measures</b> (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) IQ 3: MOISTURE CONTROL	2	
	Intent. Minimize energy consumption caused by uncontrolled air leakage into and			Intent. Control indoor moisture levels to provide comfort, reduce the risk of mold, and		
46-	out of conditioned spaces.		41	increase the durability of the home.		
-	3.1 Reduced Envelope Leakage (OR EA 1, 7.1, 7.2) (P) 3.2 Greatly Reduced Envelope Leakage (OR EA 1, 7.1, 7.2)	2	(pg. 285)	<b>3.1 Moisture Load Control</b> (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1 1	
-	3.2 Greatly Reduced Envelope Leakage (OR EA 1, 7.1, 7.2)  3.3 Minimal Envelope Leakage (OR EA 3.2) (OR EA 1, 7.1, 7.2)	3 3		IQ 4: OUTDOOR AIR VENTILATION		
,	EA 4: WINDOWS			Intent. Reduce occupant exposure to indoor pollutants by ventilating with outdoor air.		
	Intent. Maximize the energy performance of windows.		11""	4.1 Basic Outdoor Air Ventilation (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P)	(P)	$\perp \! \! \perp \! \! \perp$
	4.1 Good Windows (OR EA 1, 7.1, 7.2) (P)	(P)	11""	<b>4.2 Enhanced Outdoor Air Ventilation 4.3 Third-Party Performance Testing</b> (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	2 2	+
-	4.2 Enhanced Windows (OR EA 1, 7.1, 7.2)	2	(pg. 269)  -	IQ 5: LOCAL EXHAUST	I	
189)	<b>4.3 Exceptional Windows</b> (OR EA 4.2) (OR EA 1, 7.1, 7.2) <b>EA 5: HEATING AND COOLING DISTRIBUTION SYSTEM</b>	3	▋┃	<b>Intent.</b> Reduce moisture and exposure to indoor pollutants in kitchen and bathrooms.		
	Intent. Minimize energy consumption due to thermal bridges and/or leaks in the		(pg. 299)	5.1 Basic Local Exhaust (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P)	(P)	
	heating and cooling distribution system.		11"	5.2 Enhanced Local Exhaust	1 1	
-	5.1 Reduced Distribution Losses (OR EA 1, 7.1, 7.2) (P)	(P)	[pg. 299)	5.3 Third-Party Performance Testing	1	
-	5.2 Greatly Reduced Distribution Losses (OR EA 1, 7.1, 7.2)	2 2		IQ 6: DISTRIBUTION OF SPACE HEATING AND COOLING		
195)	<b>5.3 Minimal Distribution Losses</b> (OR EA 5.2) (OR EA 1, 7.1, 7.2) <b>EA 6: SPACE HEATING AND COOLING EQUIPMENT</b>	3	┪	<b>Intent.</b> Provide appropriate distribution of space heating and cooling in the home to improve thermal comfort and energy performance.		
	Intent. Reduce energy consumption associated with the heating and cooling system.		(pg. 305)	6.1 Room by Room Load Calculations (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P)		+
201)	6.1 Good HVAC Design and Installation (OR EA 1, 7.1, 7.2) (P)		1 1 " " " "	<b>6.2 Return Air Flow or Room by Room Controls</b> (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1	
-	6.2 High-Efficiency HVAC (OR EA 1, 7.1, 7.2)	2 2	(pg. 305)	<b>6.3 Third-Party Performance Testing</b> (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	2	
201)	6.3 Very High-Efficiency HVAC (OR EA 6.2) (OR EA 1, 7.1, 7.2)	4		IQ 7: AIR FILTERING		
	EA 7: WATER HEATING		(m.m. 044)	Intent. Reduce particulate matter from the air supply system.	(D)	
	<b>Intent.</b> Reduce energy consumption associated with the domestic hot water system, including improving the efficiency of both the hot water system design and the layout		11" - /	7.1 Good Filters (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P) 7.2 Better Filters	1 1	+
	of the fixtures in the home.		1 1 " " '	7.3 Best Filters (OR IQ 7.2)	2	
-	7.1 Efficient Hot Water Distribution	2 2	]	IQ 8: CONTAMINANT CONTROL		
-	<ul> <li>7.2 Pipe Insulation</li> <li>7.3 Efficient Domestic Hot Water (DHW) Equipment (OR EA 1, 7.1, 7.2)</li> </ul>	3 3		Intent. Reduce occupants' and construction workers' exposure to indoor airborne		
200)	EA 8: LIGHTING	3 3	/n n 015)	contaminant through source control and removal.		
	Intent. Reduce energy consumption associated with interior and exterior lighting.		1 1 " " '	8.1 Indoor Contaminant Control during Const. (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)  8.2 Indoor Contaminant Control	2	
213)	8.1 ENERGY STAR Lights (OR EA 1, 7.1, 7.2) (P)			8.3 Preoccupancy Flush (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1	
213)	8.2 Improved Lighting (OR EA 1, 7.1, 7.2)	1.5	]	IQ 9: RADON PROTECTION		
213)	8.3 Advanced Lighting Package (OR EA 8.2) (OR EA 1, 7.1, 7.2)	3	<b>.</b>	Intent. Reduce occupant exposure to radon gas and other soil gas contaminants.		
	EA 9: APPLIANCES		1 1 " "	9.1 Radon-Resistant Const. in High Risk Areas (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P)	(P)	
U1 =,	Intent. Reduce appliance energy consumption.		(pg. 323)	9.2 Radon-Resistant Const. in Mod. Risk Areas (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) IQ 10: GARAGE POLLUTANT PROTECTION	1	
-	9.1 High-Efficiency Appliances(OR EA 1, 7.1, 7.2)9.2 Water-Efficient Cloths Washer(OR EA 1, 7.1, 7.2)	1		Intent. Reduce occupant exposure to indoor pollutants originating from an adjacent		
1)	EA 10: RENEWABLE ENERGY			garage.		
	Intent. Reduce consumption of nonrenewable energy sources by encouraging the		11"	10.1 No HVAC in Garage (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2) (P)	(P)	
	installation and operation of renewable electric generation systems.		<b>」</b> Ⅰ"" ′		2	$\perp \perp \mid$
221)	10 Renewable Energy System (OR EA 1, 7.1, 7.2)	10	1 1 " " '	10.3 Exhaust Fan in Garage       (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)         10.4 Detached or No Garage       (OR IQ 10.2, 10.3) (OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	3 3	+
	EA 11: RESIDENTIAL REFRIGERANT MANAGEMENT  Intent Sologt and tost air conditioning refrigerant to ensure performance and			RENESS & EDUCATION (AE)	U   U	
	<b>Intent.</b> Select and test air-conditioning refrigerant to ensure performance and minimum contributions to ozone depletion and global warming.			ARENESS & EDUCATION (AE)  AE 1: EDUCATION OF HOMEOWNER OR TENANT		
227)	11.1 Refrigerant Charge Test (P)		]	Intent. Maintain the performance of the home by educating the occupants (i.e., the		
	11.2 Appropriate HVAC Refrigerants	1		homeowner or tenant) about the operations and maintenance of the home's LEED		
AT	ERIAL & RESOURCES (MR)			features and equipment.		
	MR 1: MATERIAL-EFFICIENT FRAMING			1.1 Basic Operations Training (P)		+
	Intent. Optimize the use of framing materials.		(pg. 336)	1.1 Enhanced Training AE 2: EDUCATION OF BUILDING MANAGER		
235)	1.1 Framing Order Waste Factor Limit (P)		]	Intent. Maintain the performance of the home by educating the building manager		
. 235)	1.2 Detailed Framing Documents (OR MR 1.5)  1.3 Detailed Cut List and Lumber Order (OR MR 1.5)	1		about the operations and maintenance of the home's LEED features and equipment.		
. 235) . 235)	1.3 Detailed Cut List and Lumber Order(OR MR 1.5)1.4 Framing Efficiencies(OR MR 1.5)	3	(pg. 339)	2 Education of Building Manager	1	
	1.5 Off-Site Fabrication	4 4	11			
J. 235)						



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#### What is the LEED for Homes Green Building Rating System?

LEED for Homes is a national, voluntary certification system, developed by national experts and experienced builders, that promotes the design and construction of high-performance green homes and encourages the adoption of sustainable practices by the homebuilding industry.

The LEED for Homes Rating System is part of the suite of nationally recognized LEED Green Building Rating Systems administered by USGBC. Like all LEED Rating Systems, it is the market's leadership system, targeting the top 25% of home building practices in terms of environmental responsibility. LEED provides industry resources and tools on how to "green" any new home.

With LEED, homebuilders can differentiate their structures as meeting the highest performance measures, and homebuyers can readily identify highquality green homes. LEED provides national consistency in defining the features of a green home, enables builders anywhere in the country to obtain a green rating on their homes, and assures homebuyers of the quality of their purchases, all based on a recognized national brand.

#### How to use the LEED for Homes Green Building Rating System Checklist:

If you plan to have your project LEED certified, this page will provide you with a brief but clear outline of the program's mandatory and credit requirements.

Please visit <u>www.usgbc.org/LEED/homes</u> for complete participation requirements, credit descriptions and to purchase the most current edition of the LEED for Homes Reference Guide as show on the upper left hand corner of this page.

If you choose not to have your project certified but would like to incorporate green practices, products and materials, use this sheet as a guide to select the green features you would like to include.

FreeGreen Inc. has made an effort to include many green building practices, products and materials right into this free home plan set. If followed as presented, this home design is already eligible for a variety of points under LEED for Homes Green Building Rating System. This page also identifies these achievable points for your convenience. SEE COLUMN "II."

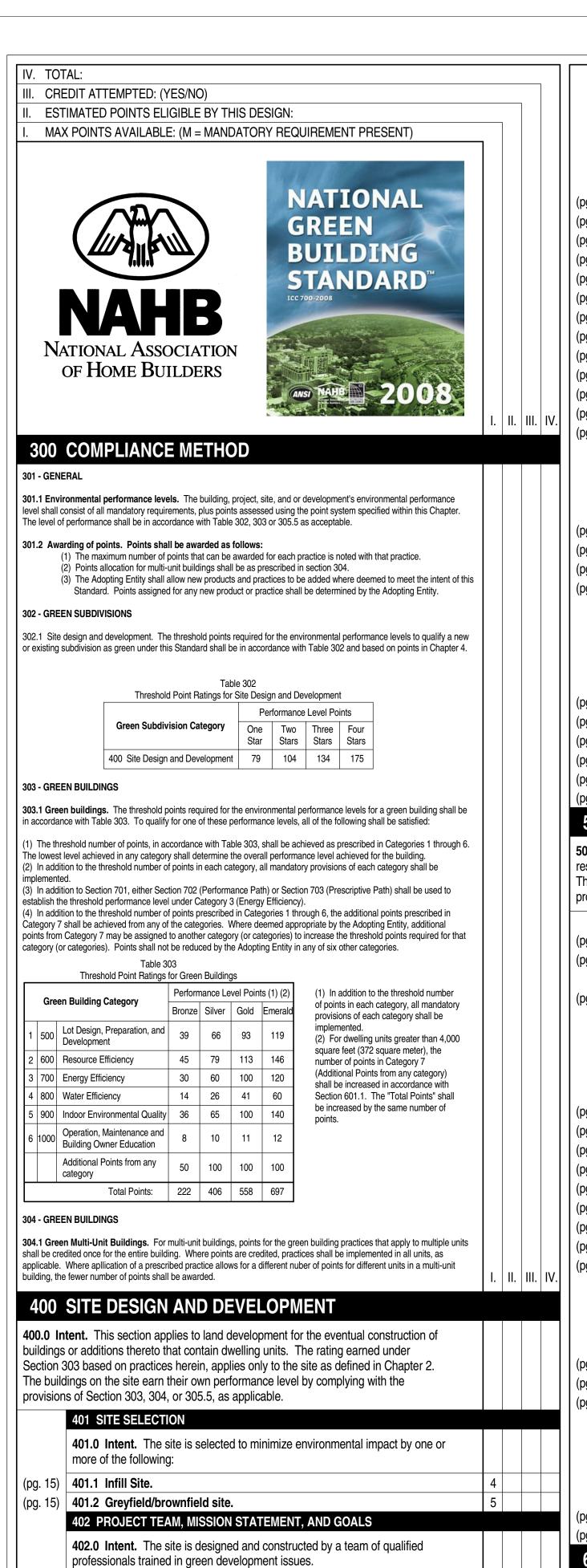
PROJECT NAME:

THE CABIN

LEED-H RATING SYSTEM CHECKLIST

PROJECT NUMBER: 29 MAY, 2009 DRAWN BY: CHECKED BY: BU, SH

A-00-2



(pg. 15) **402.1 Team.** (pg. 15) **402.2 Training.** 

(pg. 15) 402.3 Project checklist.

		I.	II. III. I	<i>y</i> .]	
	403 SITE DESIGN			(pg. 27)	601.1 Conditioned floor area.
	<b>403.0 Intent.</b> The project is designed to avoid detrimental environmental impacts,			(pg. 28)	601.2 Material usage.
	minimize any unavoidable impacts, and mitigate for those impacts that do occure.			(pg. 28)	601.3 Building dimensions and layouts.
	The project is designed to minimize environmental impacts and to protect, restore,			(pg. 28)	601.4 Framing and structural plans.
	and enhance the natural features and environmental quality of the site.			(pg. 28)	601.5 Prefabricated components.
)	403.1 Natural resources.	18		(pg. 28)	601.6 Stacked stories.
	403.2 Building orientation.	6		(pg. 28)	601.7 Site-applied finishing materials.
	403.3 Slope disturbance. (Points awarded only if there are developable steep slopes in the project area)	28		(pg. 29)	601.8 Foundations.
	403.4 Soil disturbance and erosion.	12		(pg. 29)	601.9 Above grade wall systems.
	403.5 Storm water management.	21			602 ENHANCED DURABILITY AND REDUCED MAINTEN
	403.6 Landscape plan.	54			<b>602.0 Intent.</b> Design and construction practices are implementation
4	403.7 Wildlife habitat.	5			durability of materials and reduce in-service maintenance.
)	403.8 Operations and maintenance plan.	5		(pg. 29)	602.1 Exterior doors.
)	403.9 Existing buildings.	6		(pg. 29)	
3)	403.10 Existing and recycled materials.	1		(pg. 30)	-
8)	403.11 Environmentally sensitive areas.	6		(pg. 30)	
8)	403.12 Density.	10		(pg. 30)	602.5 Roof water discharge.
3)	403.13 Mixed-use development.	6		(pg. 30)	
	404 SITE DEVELOPMENT AND CONSTRUCTION			(pg. 30)	602.7 Termite barrier.
	<b>404.0 Intent.</b> Environmental impact during construction is avoided to the extent			(pg. 31)	
	possible; impacts that do occure are minimized, and any significant impacts are			(pg. 31)	
	mitigated.			(pg. 31)	
18)	404.1 On-site supervision and coordination.	4		(pg. 31)	
18)	404.2 Trees and vegetation.	12		(pg. 31)	
19)	404.3 Soil disturbance and erosion.	31		(pg. 32)	
19)	404.4 Wildlife habitat.	19		(pg. 32)	602.14 Recycling.
	405 INNOVATIVE PRACTICES				603 REUSED OR SALVAGED MATERIALS
	405.0 Intent. Innovative site design, preparation, and development practices are				603.0 Intent. Practices that reuse or modify existing structure
	used to enhance environmental performance. Waivers or variances from local				for other uses, or use salvaged materials in the building's con
	development regulations are obtained, and innovative zoning practices are used to implement such practices, as applicable.				implemented.
				(pg. 32)	603.1 Reused of existing building.
19)	405.1 Driveways and parking areas.	5		(pg. 32)	603.2 Salvaged materials.
20)	405.2 Street widths.	6		(pg. 32)	603.3 Scrap materials.
20)	405.3 Cluster development.	10		_	604 RECYCLED-CONTENT BUILDING MATERIALS
20)	405.4 Zoning.	18		(pg. 32)	604.1 Recycled content.
(0)	405.5 Wetlands.	7		_	605 RECYCLED CONSTRUCTION WASTE
)	405.6 Mass transit.	6			<b>605.0 Intent.</b> Waste generated during construction is recycle
	LOT DESIGN, PREPARATION, AND DEVELOPMENT				as hazardous shall be properly handled and disposed.
'n	tent. This section applies to lot development for the eventual construction of			(pg. 33)	605.1 Construction waste management plan.
	al buildings, multi-unit buildings, or additions thereto that contain dwelling units.			(pg. 33)	-
t	lings on the lot earn their own performance level by complying with the			(pg. 33)	
n	s of Section 303, 304, or 305.5, as applicable.				606 RENEWABLE MATERIALS
	501 LOT SELECTION				<b>606.0 Intent.</b> Building materials derived from renewable res
١	501.1 Lot.	10			9
ı		9		-   (ng 33)	606 1 Richased products
ı	501.2 Mass Transportation.	9		(pg. 33)	
	502 PROJECT TEAM, MISSION STATEMENT, AND GOALS			(pg. 34)	606.2 Wood-based products.
)	502 PROJECT TEAM, MISSION STATEMENT, AND GOALS 502.1 Project team, mission statement, and goals.				606.2 Wood-based products. 606.3 Manufacturing energy.
l)	502 PROJECT TEAM, MISSION STATEMENT, AND GOALS	9		(pg. 34) (pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS
21)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first,</li> </ul>	9		(pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials.
21)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, minimize any unavoidable impacts, and mitigate for those impacts that do occure.</li> </ul>	9		(pg. 34) (pg. 34) (pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials. 608 INDIGENOUS MATERIALS
21)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first,</li> </ul>	9		(pg. 34) (pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials. 608 INDIGENOUS MATERIALS
21)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, minimize any unavoidable impacts, and mitigate for those impacts that do occure. The project is designed to minimize environmental impacts and to protect, restore, and enhance the natural features and environmental quality of the lot.</li> </ul>	9 4		(pg. 34) (pg. 34) (pg. 34) (pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials. 608 INDIGENOUS MATERIALS 608.1 Indigenous materials. 609 LIFE CYCLE ANALYSIS
21)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, minimize any unavoidable impacts, and mitigate for those impacts that do occure. The project is designed to minimize environmental impacts and to protect, restore, and enhance the natural features and environmental quality of the lot.</li> <li>503.1 Natural resources.</li> </ul>	9 4 24		(pg. 34) (pg. 34) (pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials. 608 INDIGENOUS MATERIALS 608.1 Indigenous materials. 609 LIFE CYCLE ANALYSIS
22)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, minimize any unavoidable impacts, and mitigate for those impacts that do occure. The project is designed to minimize environmental impacts and to protect, restore, and enhance the natural features and environmental quality of the lot.</li> <li>503.1 Natural resources.</li> <li>503.2 Slope disturbance. (Points awarded only if there are developable steep slopes in the project area</li> </ul>	9 4 24 24		(pg. 34) (pg. 34) (pg. 34) (pg. 34)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials. 608 INDIGENOUS MATERIALS 608.1 Indigenous materials. 609 LIFE CYCLE ANALYSIS 609.1 Life cycle analysis. 610 INNOVATIVE PRACTICES
221) 221) 222) 222) 223)	<ul> <li>502 PROJECT TEAM, MISSION STATEMENT, AND GOALS</li> <li>502.1 Project team, mission statement, and goals.</li> <li>503 LOT DESIGN</li> <li>503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, minimize any unavoidable impacts, and mitigate for those impacts that do occure. The project is designed to minimize environmental impacts and to protect, restore, and enhance the natural features and environmental quality of the lot.</li> <li>503.1 Natural resources.</li> <li>503.2 Slope disturbance. (Points awarded only if there are developable steep slopes in the project area</li> <li>503.3 Soil disturbance and erosion.</li> </ul>	9 4 24 24 15		(pg. 34) (pg. 34) (pg. 34) (pg. 34) (pg. 35)	606.2 Wood-based products. 606.3 Manufacturing energy. 607 RESOURCE-EFFICIENT MATERIALS 607.1 Resource-efficient materials. 608 INDIGENOUS MATERIALS 608.1 Indigenous materials. 609 LIFE CYCLE ANALYSIS 609.1 Life cycle analysis. 610 INNOVATIVE PRACTICES 610.1 Manufacturer's environmental management system
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g. 39)	701.2 Emerald level points.				904 INNOVATIVE PRACTICES			
g. 39)	701.1.3 Adopting Entity review.			(pg. 81)	904.1 Humidity monitoring system.	2		
g. 40)	701.4 Mandatory practices.			(pg. 81)	904.2 Kitchen exhaust.	2		
g. 40)	701.4.1 HVAC systems. (M)	M		1000	<b>OPERATION, MAINTENANCE, &amp; BLDG OWNER EDUC</b>	<b>`</b> A'	TIC	N
g. 40)	701.4.2 Duct systems. (M)	M			1001 BUILDING OWNERS' MANUAL FOR ONE AND TWO-FAMILY DWELLINGS			
g. 41)	701.4.3 Insulation and air sealing. (M)	M						
g. 43)	701.4.4 Fenestration. (M)	M			<b>1001.0 Intent.</b> Information on the building's use, maintenance, and green components is provided.			
	702 PERFORMANCE PATH			(no. 00)	·	10		
g. 43)	702.1 Point allocation. (M)			(pg. 83)	1001.1 Building owner's manual. (M)			
g. 43)	702.2 Energy cost performance level.	120			1002 TRAINING OF BUILDING OWNERS ON OPERATION & MAINTENANCE FOR ONE & TWO-FAMILY DWELLINGS AND MULIT-UNIT BUILDINGS			
	703 PRESCRIPTIVE PATH			(ng 84)	1002.1 Training of building owners.	6		
g. 44)	703.1 Building envelope. (Max points vary)			(pg. 84)	1002.1 Training of building owners.  1003 CONSTRUCTION, OPERATION, & MAINTENANCE MANUALS & TRAINING	U		
g. 46)	703.2 Insulation and air sealing.	15 3			FOR MULTI-UNIT BUILDINGS			
g. 48)	703.3 Fenestration.	12			1003.0 Intent. Manuals are provided to the responsible parties (owner, management,			
g. 49)	703.4 HVAC equipment efficiency. (Max points vary)				tenant, and/or maintenance team) regarding the construction, operation, and			
g. 52)	703.5 Water heating design, equipment, and installation. (Max points vary)				maintenance of the building			
	704 ADDITIONAL PRACTICES			(pg. 85)	1003.1 Building construction manual. (M)	4		
	704.1 Application of additional practice points. Points from Section 704 can be			(pg. 85)	1003.2 Operations manual. (M)	5		
	added to points earned in Section 702 (Performance Path), Section 703 (Prescriptive			(pg. 86)	· · ·	4.5		
	Path), or Section 701.1.3 (alternative bronze level compliance).				TOTAL ESTIMATED POINTS ELIGIBLE BY THIS DESIGN:		102	



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#### What is the NAHB National Green Building Standard?

In 2007 the National Association of Home Builders (NAHB) and the International Code Council (ICC) partnered to form to establish a muchneeded and nationally-recognizable standard definition of what is meant by "Green Building."

A consensus committee was formed to develop this standard in compliance with the requirements of the American National Standards Institute (ANSI). The resulting ANSI approved ICC-700-2008 National Green Building Standard defines green building for single and multifamily homes, residential remodeling projects and site development projects while still allowing for the flexibility required for regionally-appropriate best green practices.

Similar to the NAHB Model Green Homebuilding Guidelines, a builder, remodeler or developer must incorporate a minimum number of features in the following areas: energy, water, and resource efficiency, lot and site development, indoor environmental quality, and home owner education. The more points accrued, the higher the score.

The Standard, however, includes more mandatory items and suggests that higher thresholds be met in several categories. A new threshold -"Emerald" - was added to denote the highest achievement in residential green construction.

How to use the NAHB National Green Building Standard Checklist:

If you plan to have your project certified by the NAHB National Green Building Standard, this page will provide you with a brief but clear outline of the program's mandatory and credit requirements. Additional clarifying text can be found in the full National Green Building Standard. This checklist is a

worksheet only and is not a substitute for online scoring at NAHBGreen.org which. Scoring through NAHBGreen.org is required for home certification in the NAHBGreen program.

To purchase the National Green Building Standard or for more information visit www.BuilderBooks.com.

If you choose not to have your project certified but would like to incorporate green practices, products and materials, use this sheet as a guide to select the green features you would like to include.

FreeGreen Inc. has made an effort to include many green building practices, products and materials right into this free home plan set. If followed as presented, this home design is already eligible for a variety of points under NAHB National Green Building Standard Rating System. This page also identifies these achievable points for your convenience. SEE COLUMN "II."

**NOTE:** Points available for renovations and additions as specified in the NAHB Green Building Standard are not listed on this sheet. For a description of points available for renovations and additions as specified in the NAHB Green Building Standard please purchace the full standard at www.BuilderBooks.com.

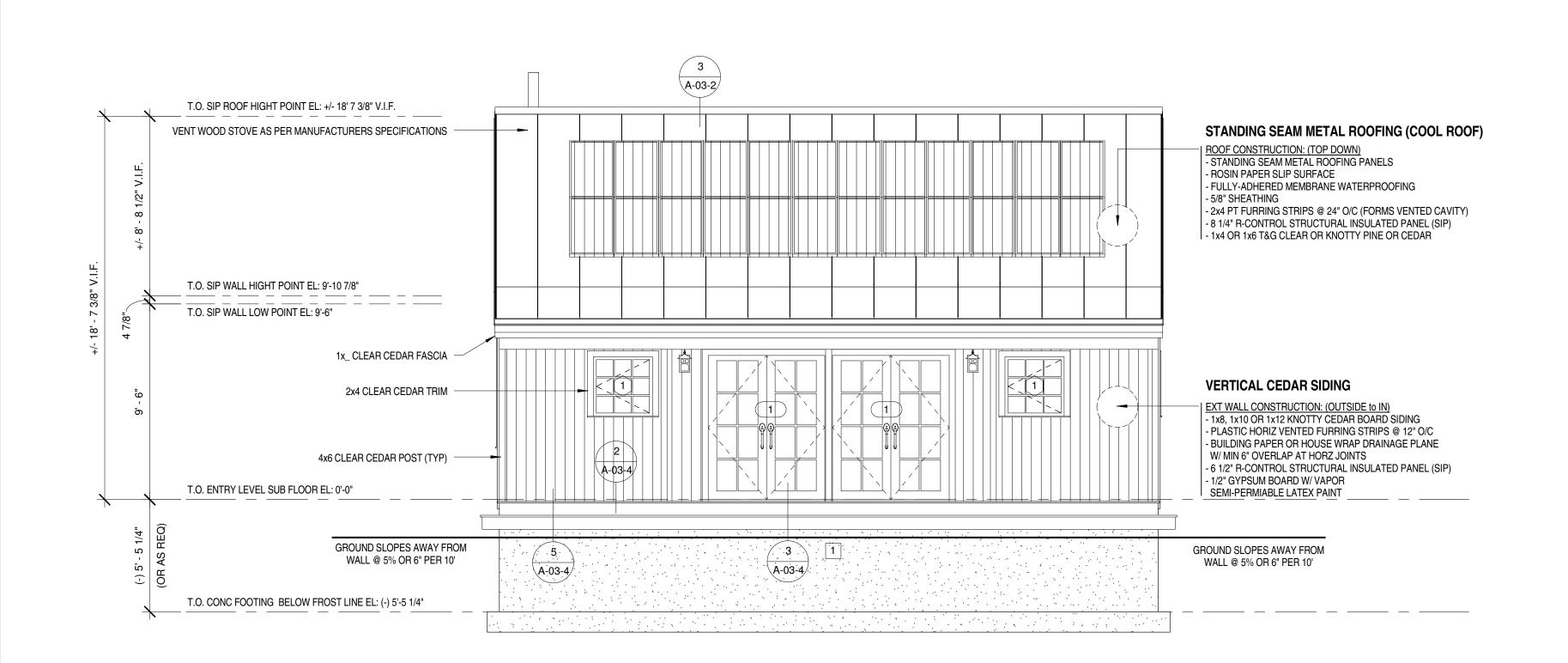
SCALE

THE CABIN

NAHB GREEN BUILDING STANDARD

PROJECT NUMBER: 29 MAY, 2009 DRAWN BY: CHECKED BY: BU, SH

A-00-3



WINDOW SCHEDULE						
No.	TYPE	ROUGH WIDTH	ROUGH HEIGHT	QUANTITY		
1	CASEMENT LEFT	3' - 1"	3' - 0 1/2"	2		
2	FIXED	6' - 1"	6' - 0 1/2"	1		
3	CASEMENT LEFT	3' - 1"	4' - 0 1/2"	2		
4	CASEMENT LEFT	2' - 1"	3' - 0 1/2"	1		

	DOOR SCHEDULE							
No.	TYPE	ROUGH WIDTH	ROUGH HEIGHT	QUANTITY				
1	OUTSWING FRENCH	5' - 9"	7' - 0 1/2"	2				
Grand total:	Grand total: 2							

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CHARLESTOWN, MA 02129

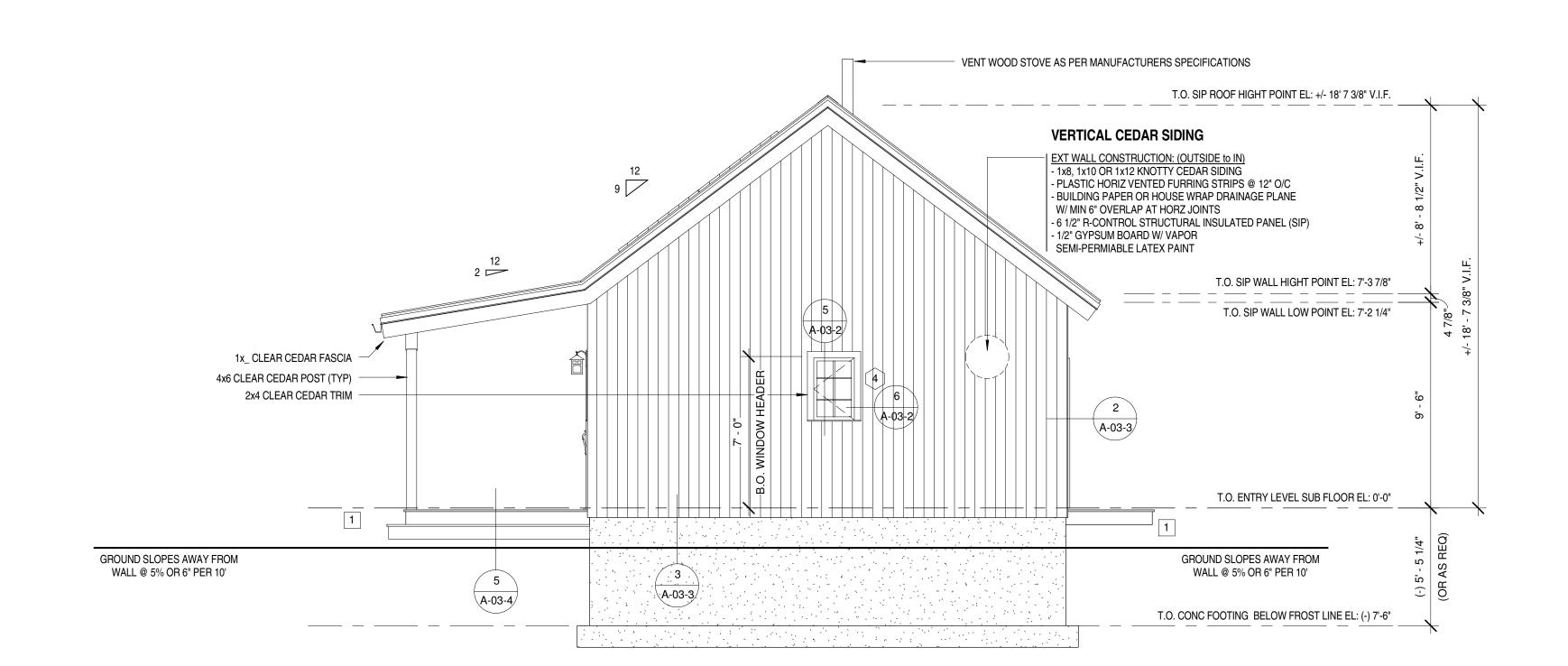
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NOTES:

EGRESS = WINDOW WITH MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET (24"Hx20"W MIN) WINDOW SILL HEIGHT NOT MORE THAN 44" ABOVE FLOOR.

The steps of the s

1) FRONT ELEVATION 1/4" = 1'-0"



2 RIGHT ELEVATION 1/4" = 1'-0"

Description

Date

PROJECT NAM

REVISION SCHEDULE:

THE CABIN

**ELEVATIONS** 

 PROJECT NUMBER:
 10-001

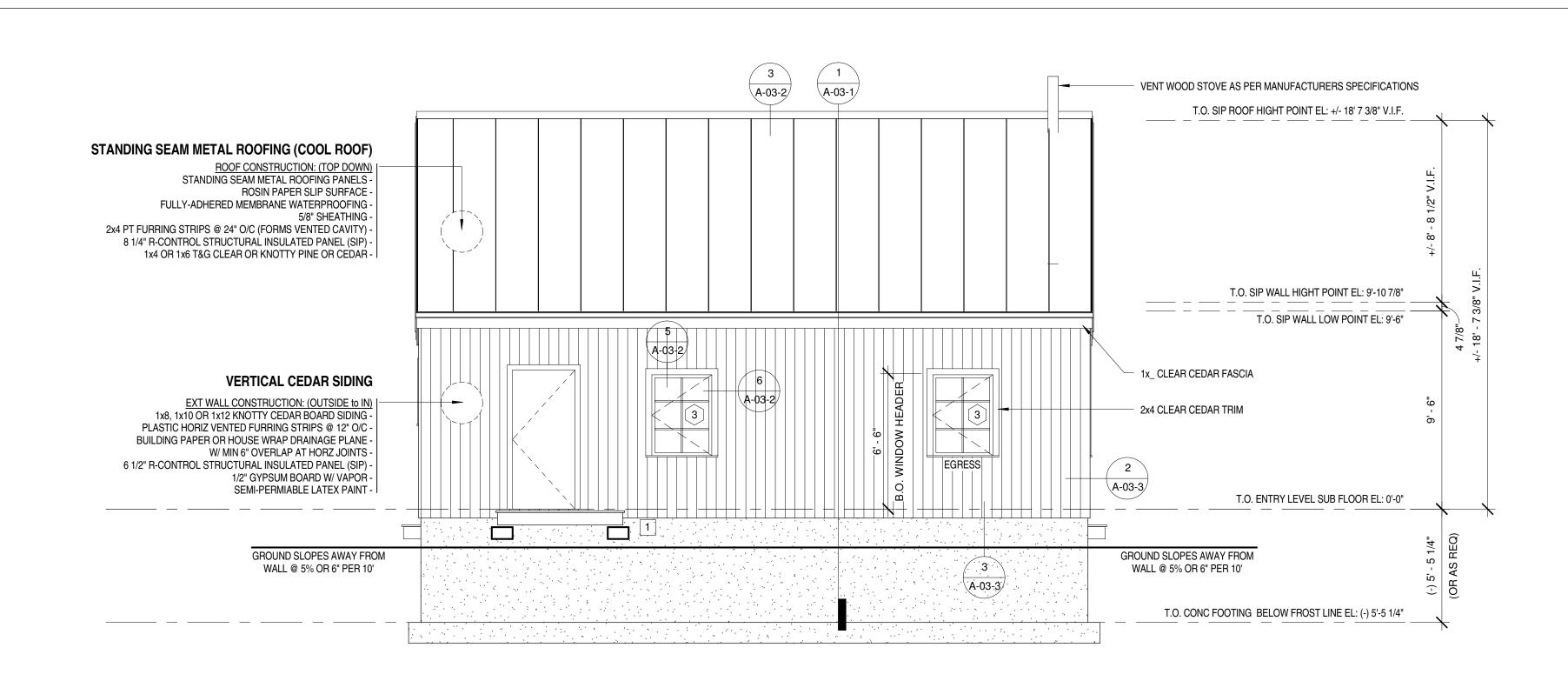
 DATE:
 29 MAY, 2009

 DRAWN BY:
 MY

 CHECKED BY:
 Checker

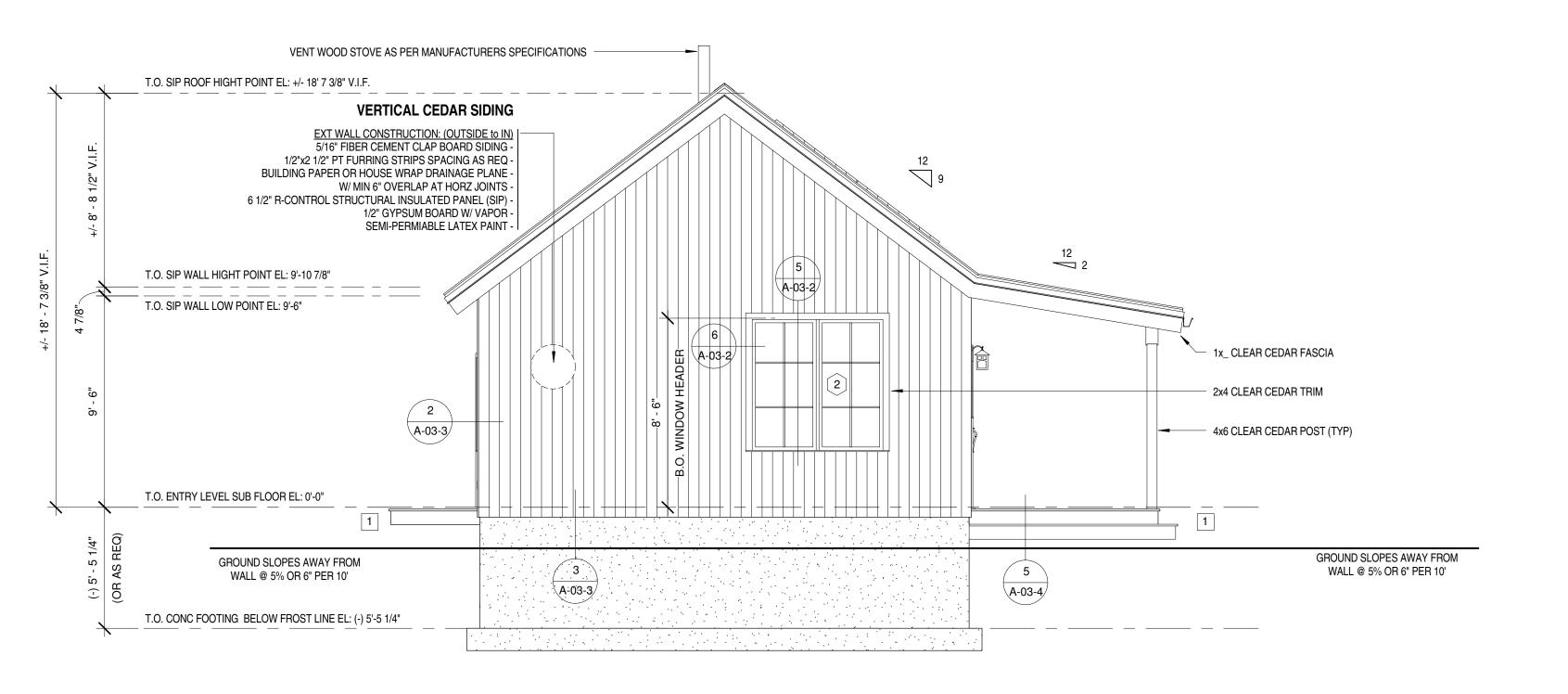
A-01-1

SCALE 1/4" = 1'-0"



2 <u>LEFT ELEVATION</u> 1/4" = 1'-0"

 $1 \frac{\text{REAR ELEVATION}}{1/4" = 1'-0"}$ 



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NOTES:

EGRESS = WINDOW WITH MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET (24"Hx20"W MIN) WINDOW SILL HEIGHT NOT MORE THAN 44" ABOVE FLOOR.

TEPS OR RAMP TO GRADE AS REQ PER SITE CONDITIONS.
MINIMUM 3'-0" LANDING REQUIRED AT ALL ENTRY WAYS.
PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED
MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL
HAVE GUARDS NOT LESS THAN 36" IN HEIGHT.

No. Description Date

No. Description Date

Description Date

Description Date

Description Date

PROJECT NAM

THE CABIN

**ELEVATIONS** 

 PROJECT NUMBER:
 10-001

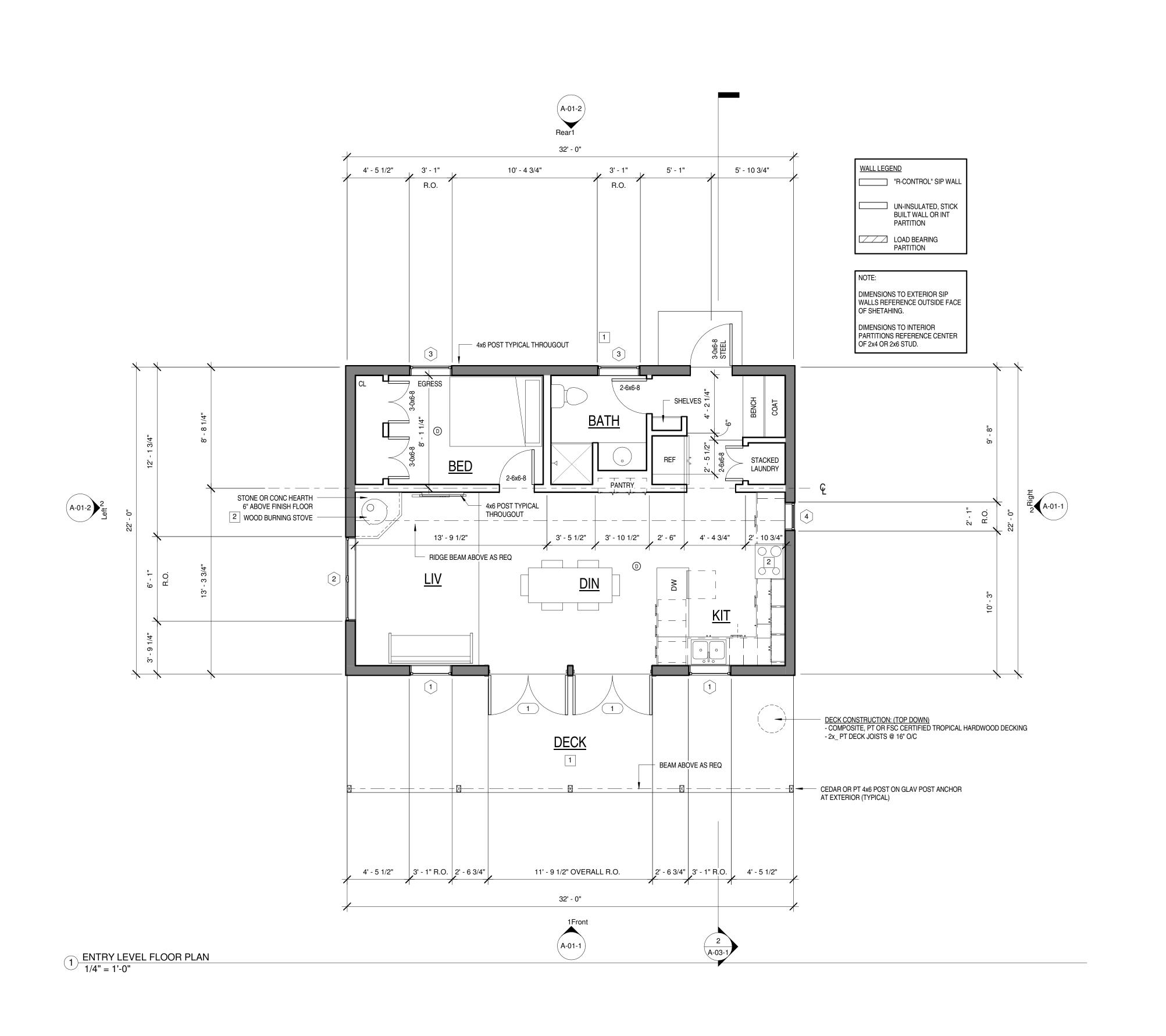
 DATE:
 29 MAY, 2009

 DRAWN BY:
 MY

 CHECKED BY:
 BU, SH

A-01-2

SCALE 1/4" = 1'-0"



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NOTES

- D = COMBINATION SMOKE & CARBON MONOXIDE DETECTORS:
  DETECTORS SHALL BE INSTALLED OUTSIDE EACH
  SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF
  BEDROOMS AND ON EACH STORY OF THE DWELLING
  INCLUDING BASEMENTS. ALL DETECTORS SHALL BE
  CONNECTED TO A SOUNDING DEVICE OR OTHER
  DETECTORS TO PROVIDE AN ALARM AUDIBLE IN ALL
  SLEEPING AREAS. ALL DETECTORS SHALL BE APPROVED
  AND LISTED AND SHALL BE INSTALLED IN ACCORDANCE
  WITH MANUFACTURER'S INSTRUCTIONS.
- STEPS OR RAMP TO GRADE AS REQ PER SITE CONDITIONS.
  MINIMUM 3'-0" LANDING REQUIRED AT ALL ENTRY WAYS.
  PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED
  MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL
  HAVE GUARDS NOT LESS THAN 36" IN HEIGHT.
- 2 VENT AS PER MANUFACTURERS SPECIFICATIONS.

REVISIO	N SCHEDULE:	
No.	Description	Date

PROJECT NAME

THE CABIN

ENTRY LEVEL FLOOR PLAN

 PROJECT NUMBER:
 10-001

 DATE:
 29 MAY, 2009

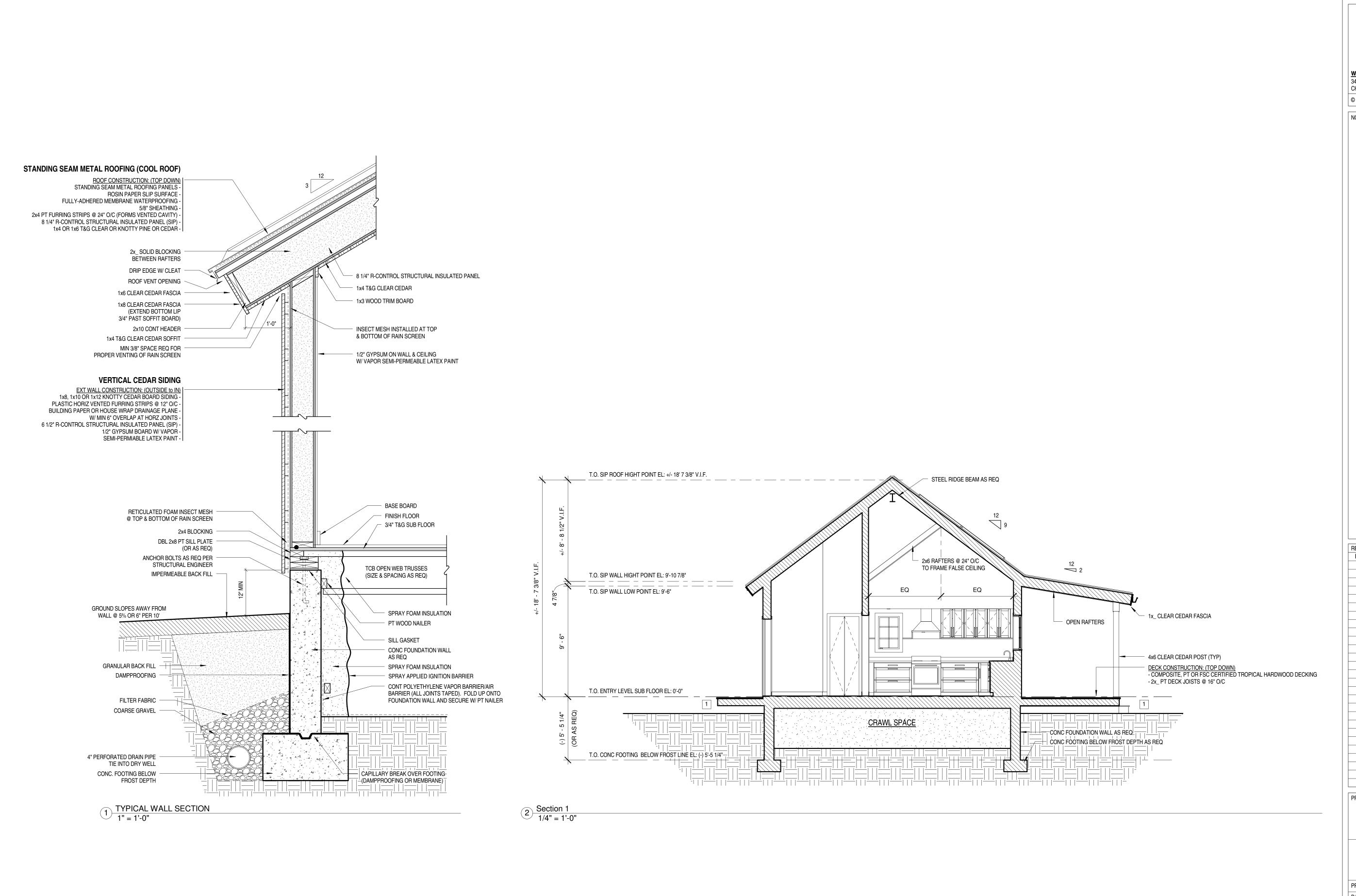
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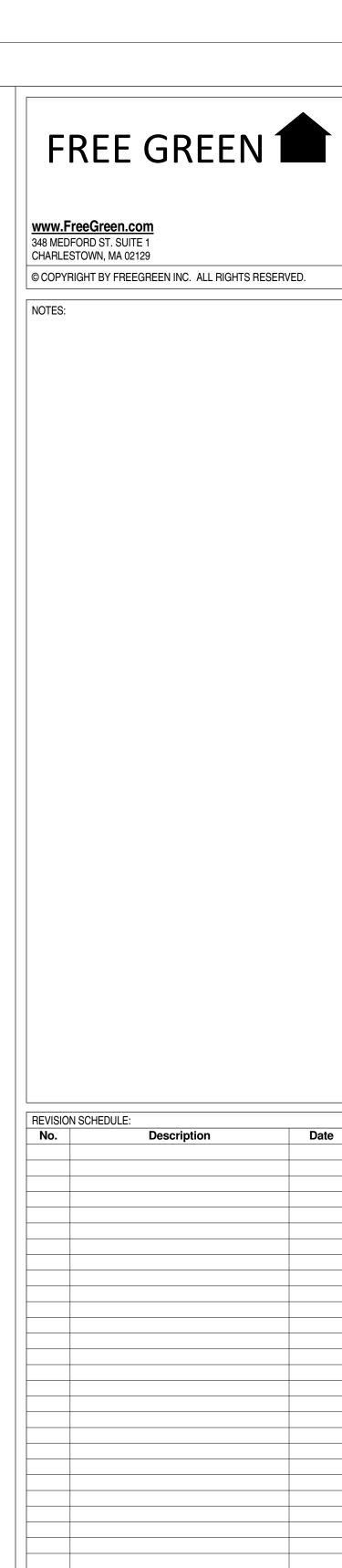
 CHECKED BY:
 BU, SH

A-02-1

SCALE 1/4" = 1'-0"

9 Y H )"





OJECT NAME:

THE CABIN

DETAILS 1

 PROJECT NUMBER:
 10-001

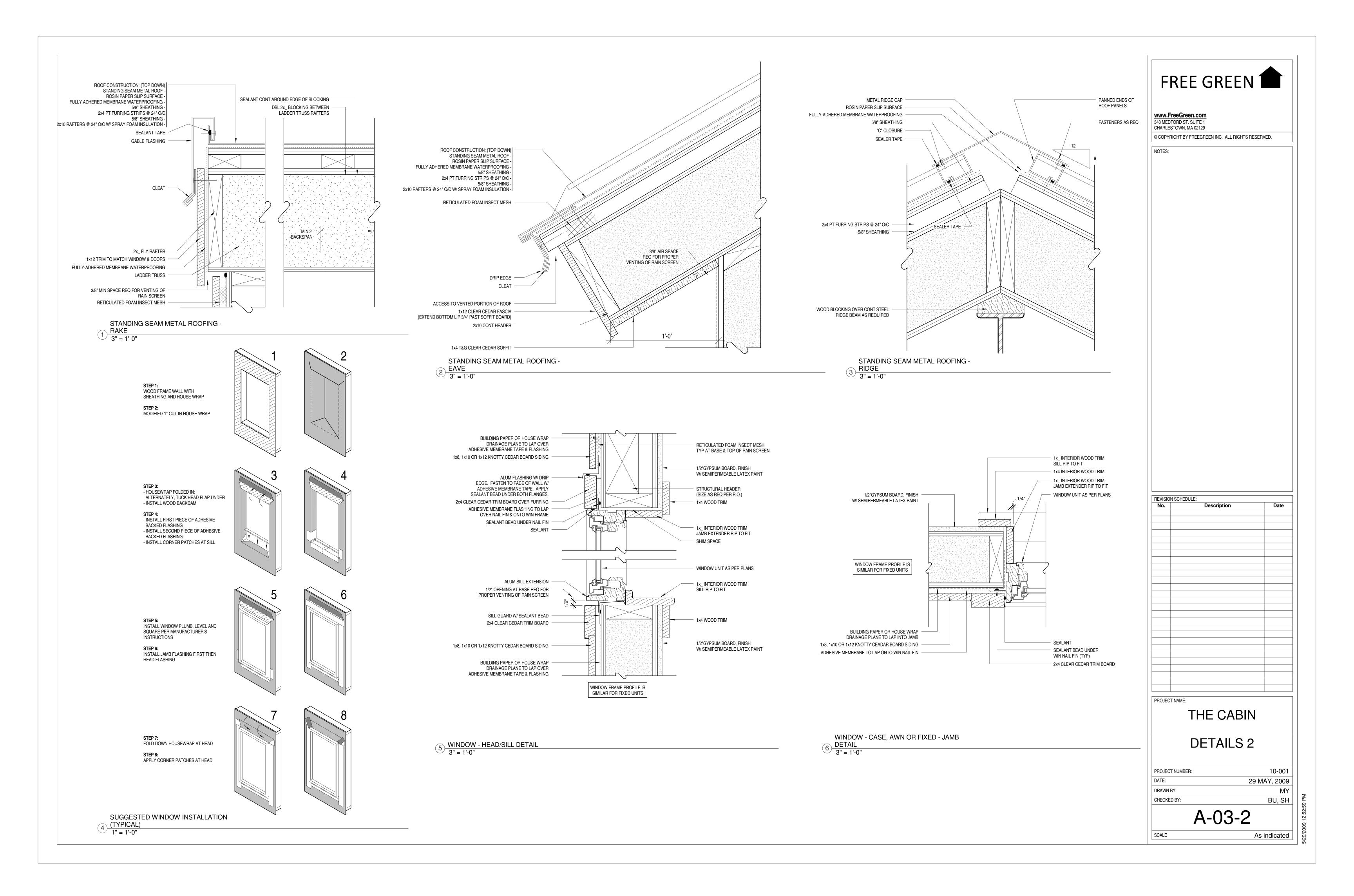
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 29 MAY, 2009

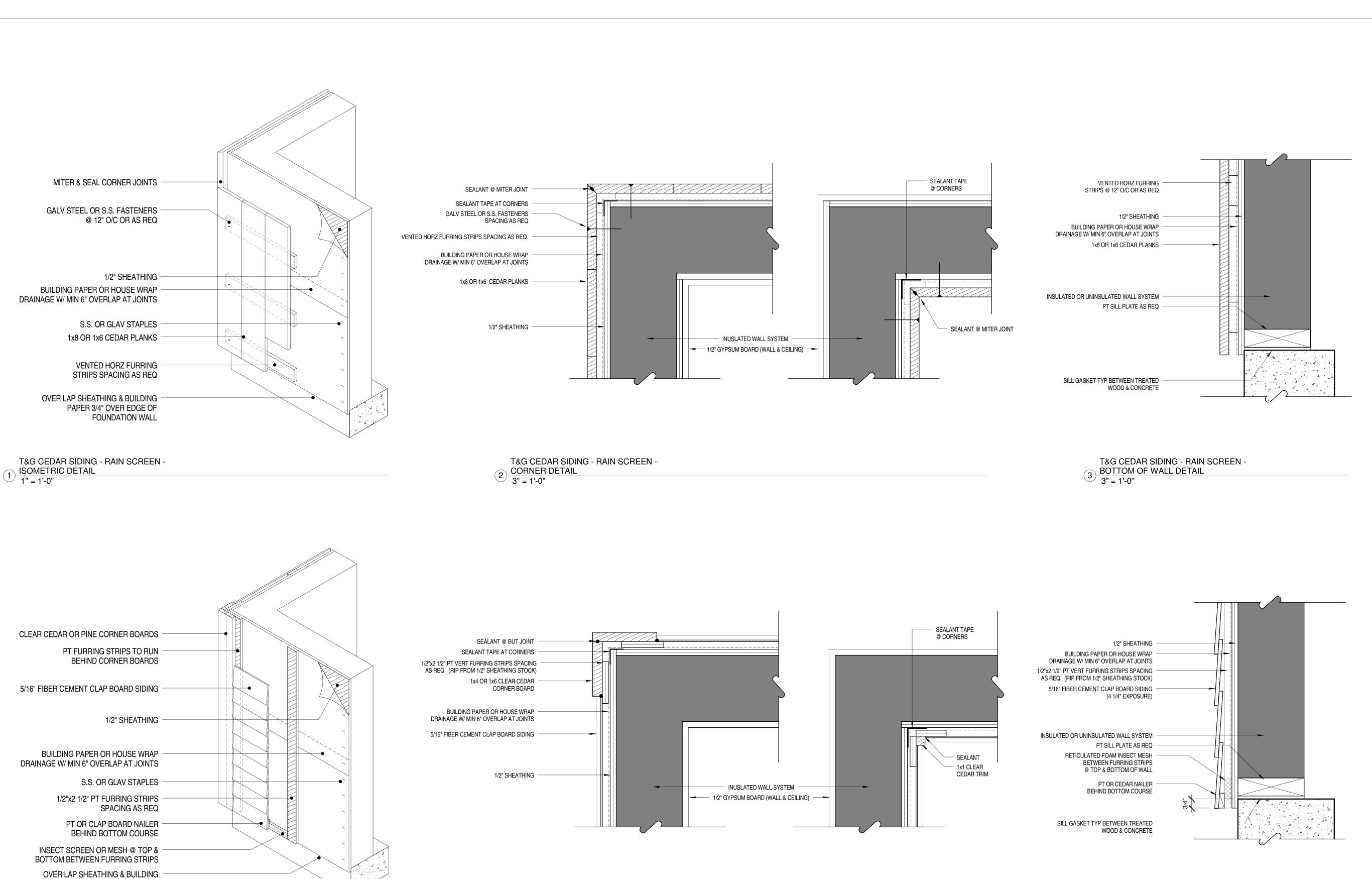
 DRAWN BY:
 MY

 CHECKED BY:
 BU, SH

A-03-1

SCALE As indicated





CLAP BOARD SIDING - RAIN SCREEN -

5 CORNER DETAIL
3" = 1'-0"

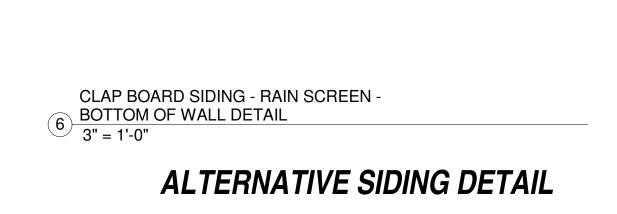
PAPER 3/4" OVER EDGE OF

CLAP BOARD SIDING - RAIN SCREEN -

4 ISOMETRIC DETAIL 2
1" = 1'-0"

FOUNDATION WALL

ALTERNATIVE SIDING DETAIL



REVISION SCHEDULE: Date THE CABIN DETAILS 3 10-001 PROJECT NUMBER: 29 MAY, 2009 DRAWN BY: BU, SH CHECKED BY: A-03-3

As indicated

SCALE

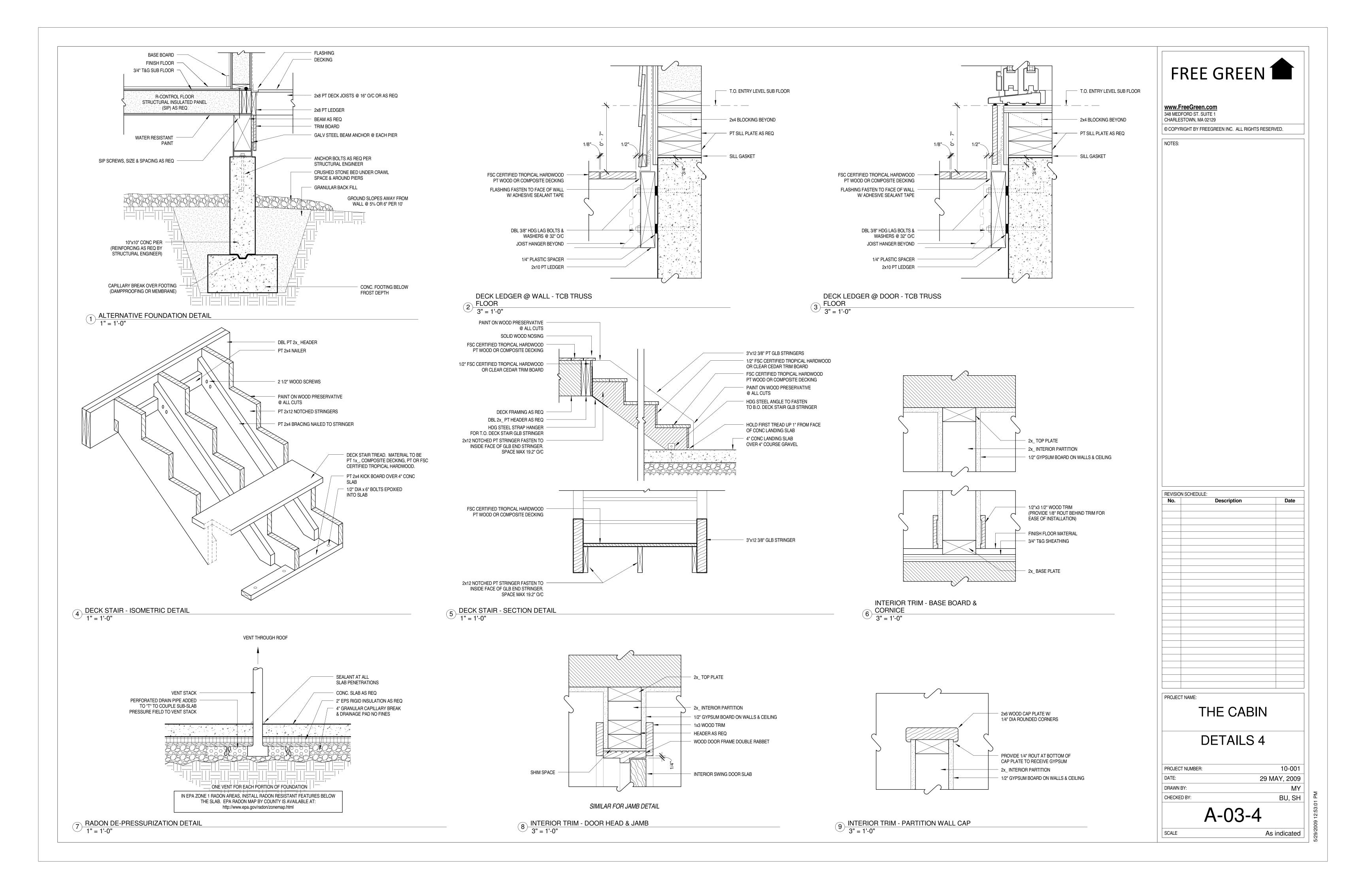
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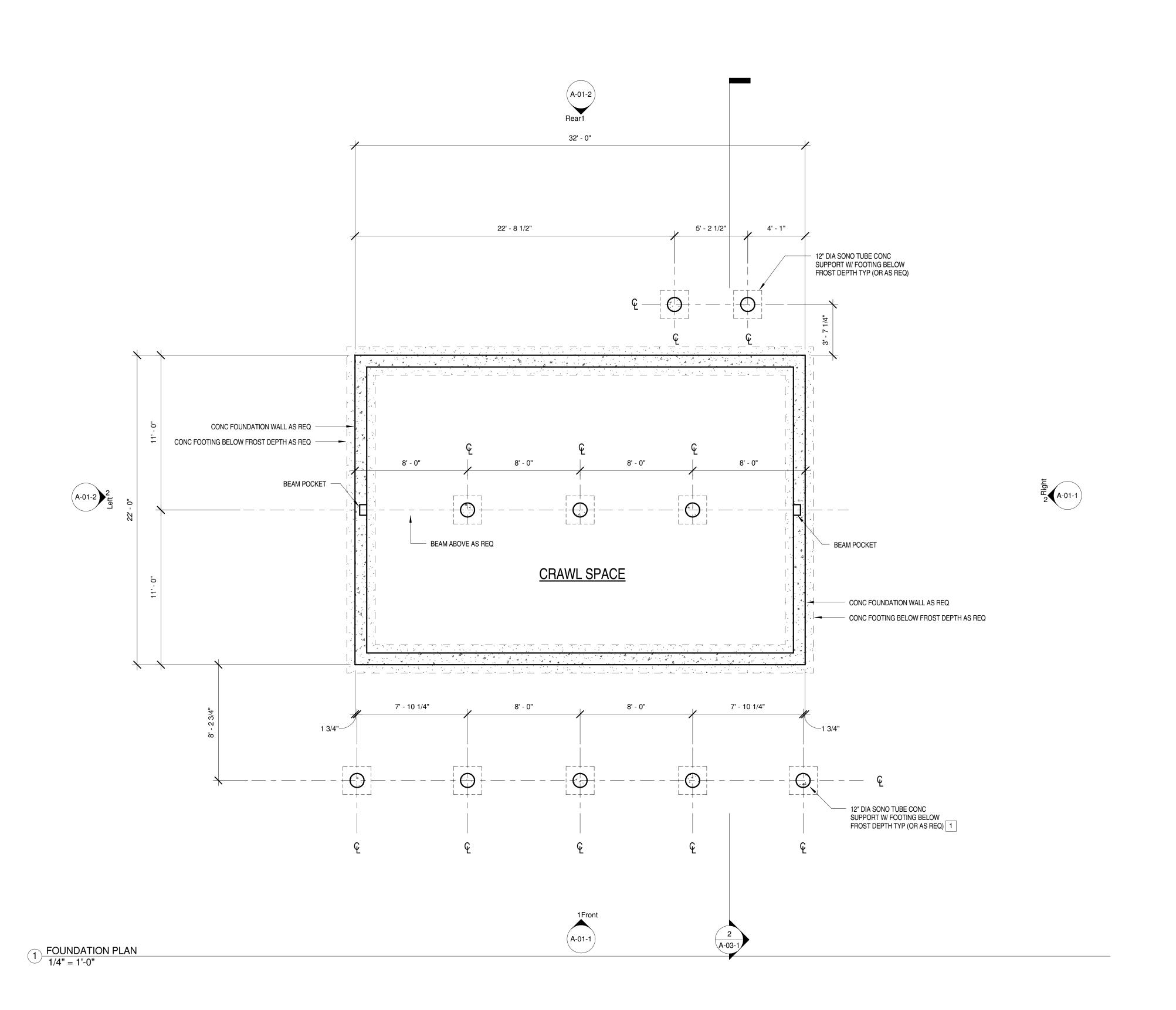
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NOTES:

ALTERNATIVE SIDING DETAIL





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NOTES:

BASEMENTS / CRAWL SPACES / SLABS:
THE BUILDER ASSUMES ALL RESPONSIBILITIES FOR PROVIDING ACCESS FOR DUCT AND PLUMBING CHASES BELOW CONCRETE SLABS AND THROUGH FOUNDATION WALLS AS REQUIRED. IT IS ALSO THE RESPONSIBILITY OF THE BUILDER TO PROVIDE ADEQUATE LIGHT AND VENTILATION FOR BASEMENTS AND OR CRAWL SPACES AS REQUIRED BY LOCAL CODES.

1 REINFORCING REQUIREMENTS TO BE SPECIFIED BY STRUCTURAL ENGINEER.

REVISION SCHEDULE: Date

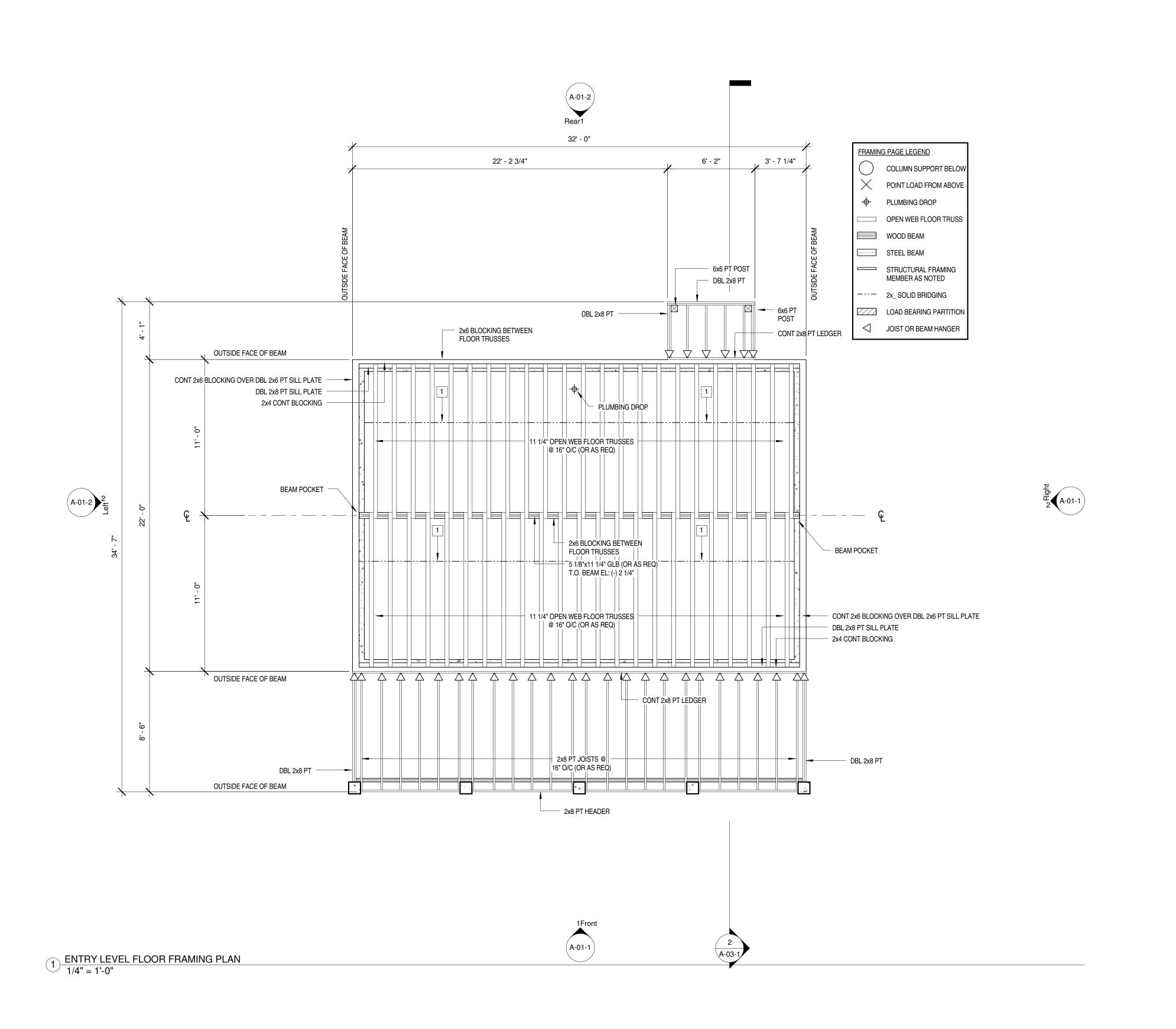
THE CABIN

FOUNDATION PLAN

10-001 PROJECT NUMBER: 29 MAY, 2009 DRAWN BY: BU, SH CHECKED BY:

A-04-1

1/4" = 1'-0" SCALE



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#### GENERAL:

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MATERIAL SPECIFICATIONS: (VERIFY W/ LOCAL CODE)

FLOOR SHEATHING:
3/4" APA-RATED EXPOSURE 1, T&G,
48/24 SPAN RATING, EXPOSURE 1
10d COMMON NAILS @ 6" O/C B.N. & E.N.,
10d COMMON NAILS @ 10" O/C INT. FRAMING

ROOF SHEATHING:
5/8" APA-RATED EXPOSURE 1,
24" MINIMUM SPAN RATING,
8d COMMON NAILS @ 6" O/C B.N. & E.N.,

8d COMMON NAILS @ 10" O/C INT. FRAMING

SAWN STRUCTURAL FRAMING MEMBERS:

MEMBERS

MEMBERS

2x\_ WALL STUDS

2x\_ FLOOR JOISTS & ROOF RAFTERS

BEAMS & HEADERS

POSTS (4x,6x,8x)

WOOD BEAM MINIMUM ALLOWABLE BENDING STRESS:

MEMBERS Fb (PS)
GLUED LAMINATED TIMBERS 2400
LAMINATED VENEER LUMBER 2700

INTERIOR HEADERS:
INTERIOR NON-BEARING SPANS USE:
2x4 FLAT FOR SPANS UP TO 3'-0"
4x4 D.F. #2 FOR SPANS UP TO 5'-0"
4x6 D.F. #2 FOR SPANS UP TO 8'-0"

REVISION SCHEDULE:

NOTES

2x6 CONTINUOUS BRIDGING TO FASTEN SECURELY TO EACH TRUSS AND TO FLOOR RIM.

D.F. #2

D.F. #2

D.F. #1

D.F. #1

Date

PROJECT N

SCALE

THE CABIN

ENTRY LEVEL FLR
FRMAING PLAN

 PROJECT NUMBER:
 10-001

 DATE:
 29 MAY, 2009

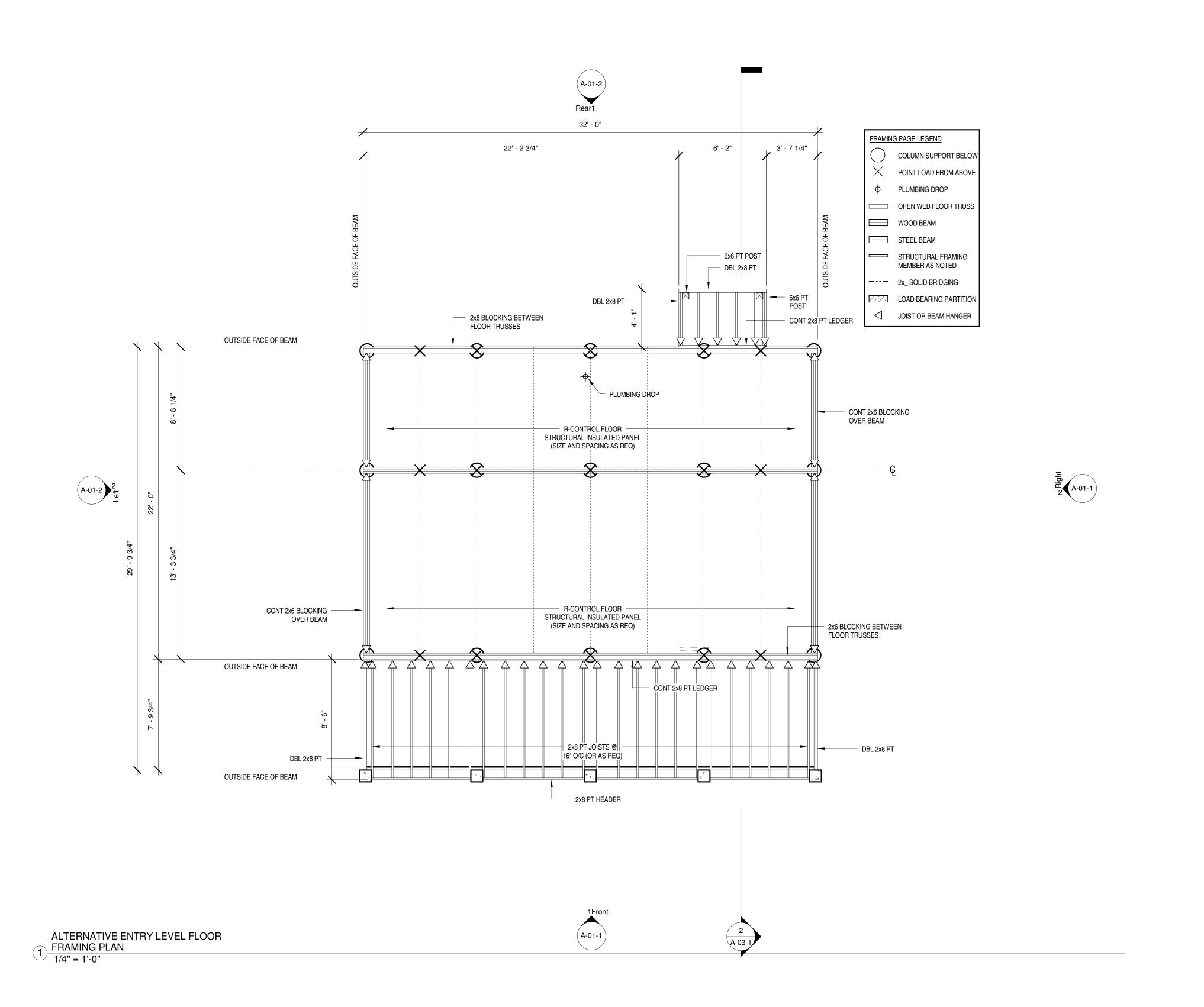
 DRAWN BY:
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 CHECKED BY:
 BU, SH

A-04-2

1/4" = 1'-0"

IY H



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48/24 SPAN RATING, EXPOSURE 1
10d COMMON NAILS @ 6" O/C B.N. & E.N.,
10d COMMON NAILS @ 10" O/C INT. FRAMING

ROOF SHEATHING:
5/8" APA-RATED EXPOSURE 1,
24" MINIMUM SPAN RATING,
8d COMMON NAILS @ 6" O/C B.N. & E.N.,
8d COMMON NAILS @ 10" O/C INT. FRAMING

SAWN STRUCTURAL FRAMING MEMBERS:
MEMBERS
2x\_WALL STUDS
2x\_FLOOR\_JOISTS & BOOF BAFTERS

2x\_ FLOOR JOISTS & ROOF RAFTERS BEAMS & HEADERS POSTS (4x,6x,8x)

WOOD BEAM MINIMUM ALLOWABLE BENDING STRESS:
MEMBERS Fb (PS)
GLUED LAMINATED TIMBERS 2400
LAMINATED VENEER LUMBER 2700

D.F. #2

D.F. #2

D.F. #1

D.F. #1

INTERIOR HEADERS:
INTERIOR NON-BEARING SPANS USE:
2x4 FLAT FOR SPANS UP TO 3'-0"
4x4 D.F. #2 FOR SPANS UP TO 5'-0"
4x6 D.F. #2 FOR SPANS UP TO 8'-0"

NOTES:

No. Description Date

No. Description Date

Description Date

Description Date

Description Date

THE CABIN

ALTERNATIVE FLR FRAMING PLAN

 PROJECT NUMBER:
 10-001

 DATE:
 29 MAY, 2009

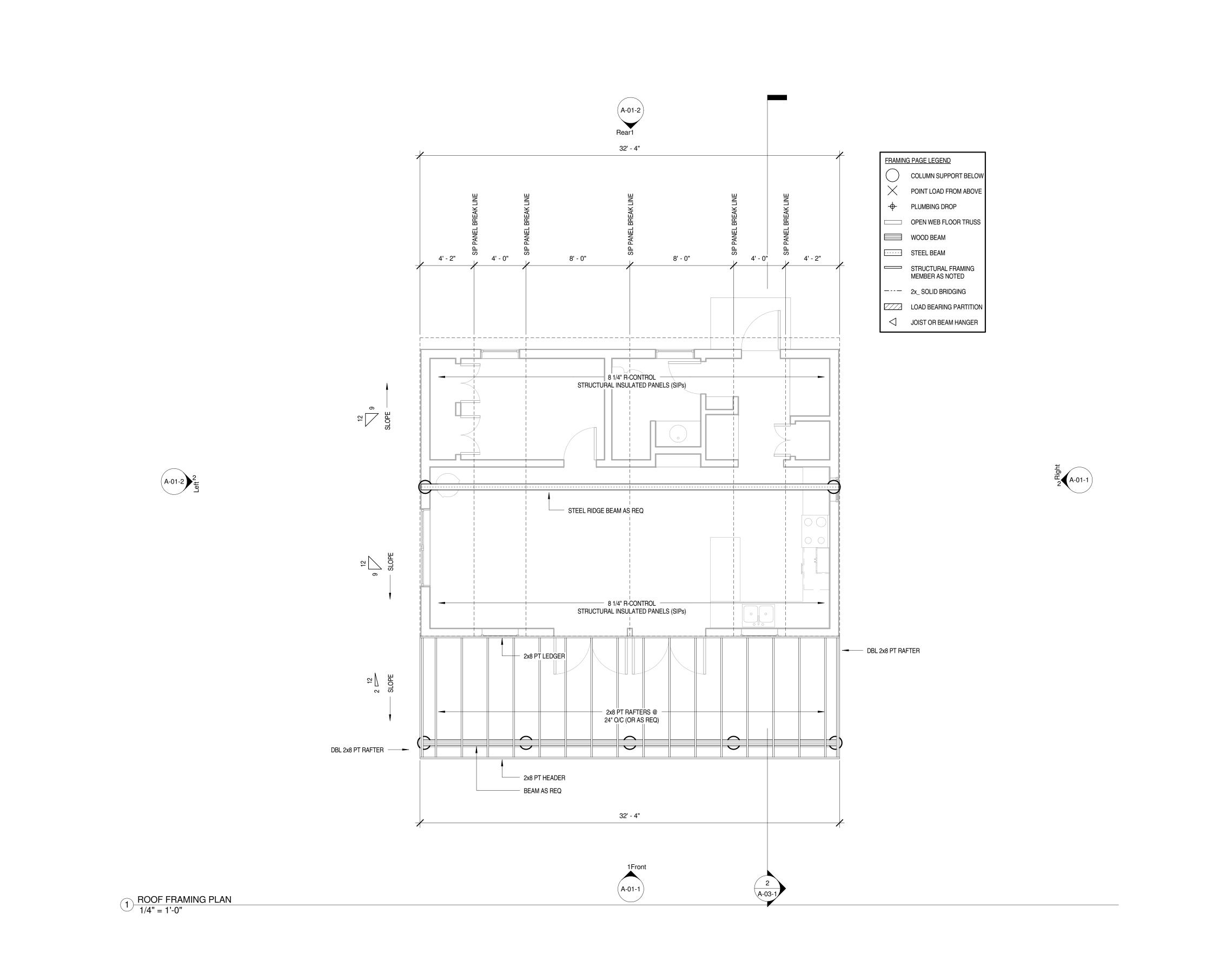
 DRAWN BY:
 MY

 CHECKED BY:
 BU, SH

A-04-3

SCALE 1/4" = 1'-0"

9 Y H )"



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MATERIAL SPECIFICATIONS: (VERIFY W/ LOCAL CODE)

FLOOR SHEATHING:
3/4" APA-RATED EXPOSURE 1, T&G,
48/24 SPAN RATING, EXPOSURE 1
10d COMMON NAILS @ 6" O/C B.N. & E.N.,
10d COMMON NAILS @ 10" O/C INT. FRAMING

ROOF SHEATHING:
5/8" APA-RATED EXPOSURE 1,
24" MINIMUM SPAN RATING,
8d COMMON NAILS @ 6" O/C B.N. & E.N.,
8d COMMON NAILS @ 10" O/C INT. FRAMIN

8d COMMON NAILS @ 6" O/C B.N. & E.N.,
8d COMMON NAILS @ 10" O/C INT. FRAMING

SAWN STRUCTURAL FRAMING MEMBERS:
MEMBERS

MEMBERS

2x\_ WALL STUDS

2x\_ FLOOR JOISTS & ROOF RAFTERS

BEAMS & HEADERS

POSTS (4x,6x,8x)

WOOD BEAM MINIMUM ALLOWABLE BENDING STRESS:

MEMBERS Fb (PSI)
GLUED LAMINATED TIMBERS 2400
LAMINATED VENEER LUMBER 2700

D.F. #2

D.F. #2

D.F. #1

D.F. #1

INTERIOR HEADERS:
INTERIOR NON-BEARING SPANS USE:
2x4 FLAT FOR SPANS UP TO 3'-0"
4x4 D.F. #2 FOR SPANS UP TO 5'-0"
4x6 D.F. #2 FOR SPANS UP TO 8'-0"

NOTES:

REVISION SCHEDULE:

No. Description Date

THE CABIN

ROOF FRAMING PLAN

 PROJECT NUMBER:
 10-001

 DATE:
 29 MAY, 2009

 DRAWN BY:
 MY

 CHECKED BY:
 BU, SH

A-04-4

SCALE

1/4" = 1'-0"

09 IY H

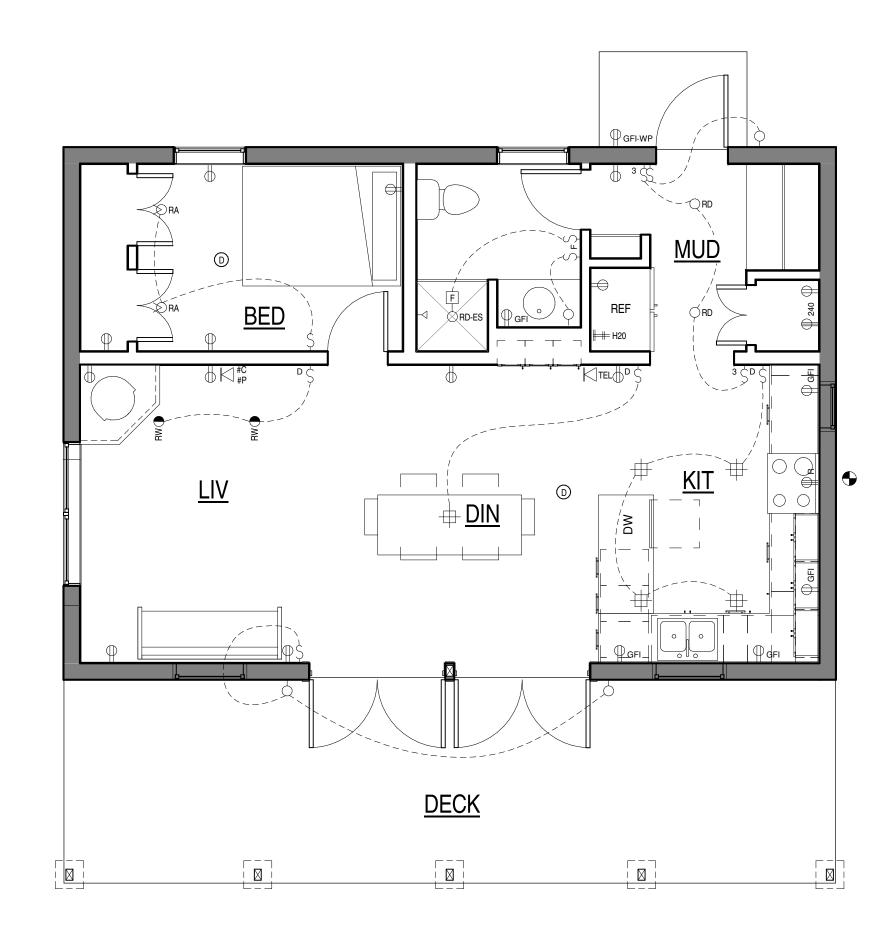
	ELECTRIC	AL OUTLET LEGEND
1.		110V RECEPTICAL
2.	⊕s	SWITCH RECEPTICAL
3.	⊕ GFI	GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
4.	GFI-WP	GFI AND WATER PROOF RECEPTACLE
5.	Фм	MICROWAVE OVEN RECEPTICAL
6.	₽R	RANGE RECEPTICAL
7.	⊕ uc	UNDER COUNTER RECEPTICAL
8.	240	240V RECEPTICAL
9.		110V FLOOR RECEPTICAL

10. S LIGHT SWITCH	
11. S 2 DOUBLE LIGHT SWITCH	ł
12. \$ 3 3-WAY LIGHT SWITCH	
13. S D DIMMER LIGHT SWITCH	ł
14. S F OCCUPANCY SENSOR FAN SWITCH	
15. KR KEY ROOM MASTER CONTROL	
16. KS KEY SCENE MASTER CONTROL	
17. G GRAPHIC EYE	

	MICELANEOUS ELECTRICAL SYMBOL LEGEND				
18.	T	THERMOSTAT			
19.	0	SMOKE & CARBON MONOXIDE DETECTOR			
20.	•	NATURAL GAS/PROPANE HOOKUP			
21.	#C #P	MULTIMEDIA JACK (NETWORK/TV)			
22.	   TEL	TELEPHONE JACK			
23.	DRBL	DOOR BELL			
24.	CHIME	DOOR BELL CHIME			
25.	<u></u> ## H20	ICE MAKER			
26.		CEILING FAN			

	LIGHTING LEGEND	BY WOLFERS LIGHTING	
27.	○RD	RECESSED DOWN LIGHT	
28.	○RD-ES	RECESSED DOWN LIGHT ENERGY STAR RATED	
29.	⊕RW	RECESSED WALL WASHER	
30.	≫RA	RECESSED ACCENT DIRECTIONAL	
31.	© RG	RECESSED GLASS	
32.	#	CEILING BOX	
33.	F	BATHROOM EXHAUST FAN	
34.	P	WALL MOUNTED FIXTURE	
35.		LED LINEAR	
36.	•	IN-WALL LED STEP LIGHT W/ REMOTE TIMER CONTROL	
37.		FLUORESCENT STRIP	
38.			

ELECTRICAL SYMBOL LEGEND
1/4" = 1'-0"



1 ENTRY LEVEL FLOOR PLAN 1/4" = 1'-0"

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NOTES:		
	TING DESIGN BY WOLFERS, ELECTRICAL PL	LAN BY FREEGI
	TING DESIGN BY WOLFERS, ELECTRICAL PI DN SCHEDULE: Description	LAN BY FREEGI
REVISIO	ON SCHEDULE:	

ENTRY LEVEL ELECTRICAL PLAN

PROJECT NUMBER: 29 MAY, 2009 DRAWN BY: BU, SH CHECKED BY:

E-01-1

SCALE

1/4" = 1'-0"



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THROUGH THE FREEGREEN, R-CONTROL SIP'S RELATIONSHIP, THIS HOME HAS BEEN PRE-DESIGNED USING STRUCTURAL INSULATED PANELS SIP'S. THE IMAGE ON THIS PAGE IS A 3-D MODEL OF THE EXISTING SIP LAYOUT FOR THIS HOME. JUST CONTACT R-CONTROL AND THE SIP'S ARE READY TO BE MANUFACTURED AND DELIVERED FOR YOUR PROJECT.

THIS PAGE IS NOT INTENDED FOR USE IN CONSTRUCTION.
PLEASE VISIT R-CONTROL SIP'S AT THE FOLLOWING ON-LINE ADDRESS:

#### www.R-Control.com/Free-House-Plans-Freegreen-R-Control.asp

R-CONTROL WILL BE HAPPY TO COLLABORATE WITH YOU ON YOUR PROJECT, WALK YOU THROUGH R-CONTROL SIP'S
INSTALLATION, PROVIDE TECHNICAL INFORMATION, PRICING AND
ANSWERS TO ALL YOUR QUESTIONS.



REVISION SCHEDULE:  No. Description				
INO.	Description			

THE CABIN

## R-CONTROL SIP PAGE

PROJECT NUMBER: 29 MAY, 2009 DRAWN BY:

P-01-1

SCALE