



BUILDING PERMIT INFORMATION

Revised 11/01/2002

Construction for your Amador County building permit shall conform to the following regulations.

1) Current Laws and ordinances

- A. 1997 Uniform Administrative Code
- B. 2001 Calif. Title 24 (Building, Mechanical, Plumbing, Electrical and Energy Calculations, etc.)
- C. Reference codes; 2001 State Fire Code and the latest N.F.P.A.
- D. County ordinance code section 15

- 2) Owners and contractors are responsible for knowing the exact locations of all property lines and locating them prior to the foundation inspection. Location of boundaries shall be clearly shown on approved plans. If site information is suspect the building dept. may require a survey of the property.
- 3) *Approved Plans* and the *Inspection Record Card* (green card) are legal parts of the Building Permit. They both shall be available on site during each requested inspection. If these documents are left on site, care shall be taken to keep them in good condition.
- 4) If there are any changes to the construction beyond what the approved plans indicate they must be reviewed and approved prior to the changes being made. Submit the proposed changes along with the current approved plans for re-approval.
- 5) The *Inspection Record Card* identifies those items requiring inspection. Although the items are typically for dwelling construction they are similar for other types of construction. It is the responsibility of the owner or contractor to call for the appropriate inspections at least 24 hours prior to inspection. No work requiring inspection shall be covered until inspected and approved. If there are any questions please contact the Building Dept.
- 6) (A) The Building Permit requires that the work must progress in a timely manner to completion or the permit will expire and a new permit will be required. Work must commence within 180 days from issuance. Work under a permit shall be considered suspended or abandoned, and the permit subject to expiration if the builder does not

call for and pass one of the five (5) code required inspections as set forth in the Uniform Administrative Code section 303.4 within 180 days after the date the permit was issued, or the date of passing a prior required inspection, whichever date is later. The five (5) minimum inspections are for time limitation only.

1. FOUNDATION
2. UNDERFLOOR
3. FRAME (Includes Plumbing, Electrical, Mechanical, ETC)
4. SHEET ROCK
5. FINAL

- 6) (B) Note: In Amador County there are other required inspections as on "*Inspection record card*". These other inspections are not used in determining if the permit has expired or not. At final, clearances and final signoffs may be required from other agencies as Public Works, Septic/Sewer and Fire Dept.
- 7) During inspections correction notices may be issued which identify work that does not meet min. code requirements, no work shall continue until the corrections are made. Only with special authorization from the inspector shall additional work continue. Reinspection shall be called to verify and clear correction notices.
- 8) Questions with any code or inspection matters shall be addressed to the Building Dept. for explanation and resolution. If satisfactory resolution is not received, permit holders have the right to request to the Building Official for a determination if the item can be appealed to the Building Appeals Board.
- 9) The State Building Codes allow for alternative materials and methods of construction. Requests for use of alternative materials and methods of construction shall be made in writing to the Building Dept. and is the responsibility of the applicant to provide full documentation in support of the request. Appeals to the decisions of the Building Dept. concerning alternative materials and methods of construction can be made to the Chief Building Official (see # 8).
- 10) California Health and Safety Code, section 5416, requires that at least one (1) toilet be provided on each construction site. Although the chemical-type toilet is the one most commonly used various alternatives are available upon review and approval by the Amador County Environmental Health Dept. Non compliance with these state requirements is a violation of state law. If you have questions call Health Dept. @ 223-6439.
- 11) The State Water Resources Control Board @ (916) 322-4503 regulates all water resources in California, appropriation of water or alteration/diversion of any water course without proper clearance and approvals from the Resources Control Board is a violation of state law.
- 12) There are numerous underground utilities placed through out Amador County, owners and contractors are responsible for knowing of any and all utilities which may occur through or under construction sites. If there are questions concerning underground utilities please contact either.
 - A. Western Utilities Underground Alert Inc.
(800) 424-DIGS
 - B. Underground Service Alert
(800) 642-2444

LAND USE AGENCY

- BUILDING DEPARTMENT
- ENVIRONMENTAL HEALTH DEPARTMENT
- PLANNING DEPARTMENT



500 ARGONAUT LANE • JACKSON, CA 95642-9534 • (209) 223-6422

FAX (209) 223-6637

24 HOUR INSPECTION REQUEST
LINE IS (209) 223-6423

PLEASE READ THIS INFORMATION CAREFULLY IT CONTAINS IMPORTANT INFORMATION PERTINENT TO YOUR PROJECT. IF YOU DO NOT UNDERSTAND SOME OF THIS MATERIAL, PLEASE BRING IT TO THE ATTENTION OF THE INSPECTOR IN THE FIELD, HE/SHE WILL BE GLAD TO ANSWER, IN DETAIL, ANY QUESTIONS YOU MAY HAVE. YOU MAY ALSO CALL THE OFFICE FOR ANY INFORMATION YOU REQUIRE.

THE COUNTY OF AMADOR, BY THIS APPROVAL, DOES NOT ACCEPT ANY RESPONSIBILITY FOR OMISSIONS IN PLAN CHECKING, NOR DOES THIS RELIEVE THE CONTRACTOR OR BUILDER FROM COMPLIANCE WITH ALL CODES AND ORDINANCES.

JAY STUDER
CHIEF BUILDING OFFICIAL

The Uniform Administrative Code requires that the **areas or items to be inspected must be ready for that inspection, prior to the request for inspection, which is one day before the requested date.** A reinspection fee may be charged. It is required that the approved set of plans and inspection record card (green card) be available to the building inspector during inspections. A reinspection fee may be charged for failure to have the inspection record card and approved plans available at the job site or if not ready for called inspection. (UAC 305)

GRADING AND SITE PREPARATION

- Prepare building pad to assure 2% slope (1/4 in. Per. Foot) to 5 ft. away from structure. (UBC 1806.5.5)
- Address cut slopes and fills on plot plan as per requirements of UBC Appendix Chapter 3312-13
- See Ordinance #1530 (attached), if required for road, driveway and setback requirements.

FOOTING AND FOUNDATIONS

- 1/2" Re-bar, 3" from top & bottom, maximum 18" apart. (UBC1806.7.1)
- Remove all loose fill, debris, roots, etc. within 12" of surface, from footings and underfloor areas. (UBC 3302)
- All re-enforcing steel. UFER ground, and foundation and pier footings shall be completed prior to this inspection. (UBC 108.5.2)
- Footings shall be dug 12" below undisturbed earth for single story, and 18" below undisturbed earth for 2 story (wood floored) structures. (UBC Table 18-1-C)
- 2/3 All rebar, foundation bolts, hold downs, etc. in place before inspection and approval. (UAC 305.5.(1))

GIRDERS, GROUND PLUMBING, FLOOR JOISTS, AND UNDERFLOOR

- ALL water piping and DWV shall be installed and water/pressure tested. (UPC 712.1 & 105.5.3.3)
- ALL water piping (UPC 3-1), DWV (UPC Table 3-1), gas piping (UPS Table 12-2) and heating ductwork (UMC Table 6-E), shall be strapped properly.
- Underfloor framing shall be completed, girders spliced, joists blocked over all bearing. (UBC 2320.8-9)
- Cripple wall studs if less than 14" in length shall have solid blocking or plywood installed on both sides. (UBC 2320.11.5)
- Underfloor clearance. 12" to girders, 18" to joists. (UBC 2317.3)
- Foundation bolts to be installed 6' o/c, 12" from ends and joints of mudsill. (UBC 1806.6)
- Foundation bolts require 2 x 2 x 3/16 washers. (UBC 1806.6.1)
- Foundation ventilation shall be provided at the rate of 1 sq. ft. per 150 sq. ft. of underfloor area. (UBC 2306.7)
- Provide minimum 18" x 24" access to underfloor area, within 20' of building drain cleanouts. (UBC 2306.3)

ROOF SHEATHING AND NAIL INSPECTION

- Nailing schedule for plywood sheathing shall be a minimum of 6" o/c on edges and 12" o/c in field. (UBC Table #23 11-B-2))
- Trusses shall be set and secured. Truss bracing shall be in accordance with Truss Manufacturers Specifications. (UBC 2304.4.1)
- Trusses at exterior bearing points attached with approved truss clips and Interior nonbearing trusses are not to be secured to top plates. (Truss Manufacturers Specifications)
- Roof diaphragm to be nailed at boundry of exterior wall of building @ 6" o/c.

(UBC 23 11-B-2)

- Comp. roofing w/slopes between 4 in 12 & 2 in 12 requires 2 layers Type 15 Felt. (UBC Table 15-B-1)
- ROOFING: Effective Nov.3 2000. Amador County has amended UBC 1504 to have the following roof covering requirements: (a) Roof covering on all new construction shall be listed 'CLASS A' per 1504.1 or metal, or other non-combustible material, installed over solid sheathing unless approved by Building Official. EXCEPTION: (Additions, alterations, and repairs) shall be as provided in UBC 3403, provided, however, when re-roofing or making additions to a building, the new roofing, or the additional roof area, accomplished in any 12 month period, exceeds 50% of the entire roof area, the entire roof shall comply with the provisions of this section. (b) Prior to final inspection, the installer and/or owner may be required to file a "certificate of compliance" with the Building Department, indicating the roof covering installed meets the requirements of a Class 'A' metal, or non-combustible material. © Above 5000 ft. elevation, metal roofing shall be applied over an underlayment of not less than 15 lb. felt. Fasteners shall be as specified by the manufacturer. Flashing for metal roofs shall be as specified in UBC 1508.3.

FRAME

FRAMING INSPECTION: This inspection is to be called when roof covering is installed and building is weathertite, fire blocking, bracing, rough electrical, plumbing and vents, heating ducts and stove pipes shall be installed. (UAC 305.3)

- Nailing of **ALL** framing members (UBC Table #23-11-B-1)
- Residential landings, min. 36" x 36". Install at **ALL** exterior doors, regardless of door swing. (UBC 1003.3.1.7)
- Wood stove piping and masonry hearth and wall protection shall be installed to stove manuf. specifications. Unlisted stoves installed with 1" air space and brick protection from combustibles shall have 18" clearance, without approved wall protection is 36". (Uniform Mechanical Code Table #3-A.)
- Minimum 22" x 30" attic access required. (UBC 1505.1)
- Notches and holes in framing members. (UBC 2320.11.9, 2320.11.10) and (2320.12.4)

- Frame Bracing (UBC 2320.11.3)
- Gable end attic vents must equal 1/150th of attic floor area or 1/300th of area if combined with eve vents. (UBC 1505.3)
- Residential stairways shall be minimum 36" finished width, have minimum 9" tread run, maximum 8" riser height, and minimum 6 ft. 8 in. clear headroom. Stairways with four (4) or more risers shall have handrails 34" to 38" above the nose of the treads, and be 1 1/4" to 2" wide, with newel posts or returns. (UBC 1003.3.3.6) Maximum spacing between less than 4" o/c @ guard and handrails. (UBC 509.3 & 1003.3.3.6 exmp. 3)
- Walls and soffits of enclosed spaces under stairways to be protected with 5/8" Type X sheetrock maximum 16" o/c (UBC Chapter 7) (UBC 1003.3.3.9)
- Unless the bedroom has an exterior door, at least one emergency egress window in a bedroom shall have a minimum net, clear openable area of 5.7 sq. ft., a minimum net height of 24", a minimum net width of 20" and a maximum sill height of 44" above the finished floor. (UBC 310.4)
- Wood stoves and fireplaces shall have approved spark arresters installed. (UMC 812.1)
- All firewalls secured @ maximum 16"o/c members. (UBC Chapter 7)

ROUGH ELECTRICAL

- Electrical wiring and equipment shall be installed in a neat and workmanlike manner. (NEC 110-12)
- Romex shall be stapled within 12" of boxes (with internal clamps) 8" with out clamps. (NEC 336-15)
- Grounds shall have mechanical means of connection, stake-ons, wire nuts, soldering, etc. (NEC 110-14 (a) (250-8)
- 2 - 20 amp small appliance circuits required in kitchen area, such circuits, whether two or more are used, shall have no other outlets. (NEC 210-52 (B) (2)
- GFCI protection required on all counter top kitchen small appliance receptacles. [NEC 210-8-(A.6)].
- GFCI protection required on all U occupancy, garage, barn & shed receptacles.

[NEC 210-8 (a) (6)]

- 20 amp GFCI protection required on outlets in bathrooms. [NEC 210-8 (A) (2)]
- GFI protection required on all exterior outlets (with approved covers) (NEC 210-52-E)
- GFI protection required on all outlets below grade level or in unfinished basements. [NEC 210-8 (a) (4)].
- At least 6" of free conductor shall be left at each outlet, junction and switch point for splices, or the connection of fixtures, or devices. (NEC 300-14)
- Receptacle outlets shall be installed on any single wall space over 24" width in habitable areas. [NEC 210-52 (a)]
- Conductor protection is required within 6 ft. of attic access opening. [NEC 333-12 (a)]
- SMOKE DETECTORS - In dwelling units, smoke detectors shall be installed in each sleeping room, at a point centrally located in a corridor giving access to each sleeping area, and when the dwelling has more than one story and a basement, the smoke detector shall be installed on each story and the basement. See additional requirements in UPC 310.0.1.4.

ELECTRIC SERVICE REQUIREMENTS

- All breakers in main and sub-panels shall be labeled. (NEC 110-22)
- All Conductors shall be color coded to identify their use. (NEC 310-12)
- All interior metal piping systems shall be bonded to the service ground. The bonding jumper shall be sized per Table 250-94. (NEC 250-80)
- Size of Service Grounding conductors: (100 Amp =#8 Copper)(200 Amp =#4 Copper) (NEC Table 250-94)
- Bushings and clamps shall be installed in all knockout holes in service equipment boxes. (NEC 373-5)
- All unused knockouts shall be plugged. [NEC 373-4, 110-12 (a)]

- A separate ground rod shall be driven at detached structures served by a common service. (NEC 250-24)

PLUMBING

- DWV shall be water tested with min. 10 ft. head or air pressure @ 5 lbs. at time of inspection. (UPC 712.2)
- Hot and cold water piping shall be tested at 50 p.s.i. air pressure or the working pressure under which it is to be used. (UPS 103.5.3.3)
- All DWV, water piping, and gas piping shall be protected from physical damage. (UPC 313-5)
- Island sink venting shall conform to UPC 909.0.
- Vent termination shall be not less than 6" above the roof. (UPC 906.0)
- All shower compartments, regardless of shape, shall be capable of encompassing a thirty (30) inch circle. The minimum required area (1,024 sq. in.) and dimensions shall be maintained to a point seventy (70) inches above the shower drain outlet with no protrusions other than the fixture valves, shower head and safety grab bars or rails. (UPC 412-7)
- Require that all new buildings constructed in California use water closets and associated flushometer valves which use no more than 1.6 gallons per flush. (HSC 17921.3 (b))
- Air gap devices shall be installed in-line on domestic dishwasher drains. (UPC 807.4)
- Cross connection control is required as part of all potable water systems. This includes backflow protection on irrigation and hose bibs. (UPC 602.4)
- Paint required on exterior black iron gas pipe. (UPC 1211.7)
- Showers and tub-shower combinations shall be provided with individual control valves of the pressure balance or the thermostatic mixing valve type. Gang showers, when supplied with a single tempered water supply pipe, may be controlled by a master thermostatic mixing valve in lieu of individually controlled pressure balance or thermostatic mixing valves. Handle position stops shall be provided on such valves and shall be adjusted per manufacturer's instructions to

deliver a maximum mixed water setting of 120°F (49°C). The water heater thermostat shall not be considered a suitable control for meeting this provision. (UPC 420)

MECHANICAL

- Interior gas piping shall be tested at 10 p.s.i. Exterior piping shall be tested at 60 p.s.i. (UPC 1204.3.2)
- Duct systems shall conform to UMC Chapter 6.
- Underfloor installations of propane gas appliances shall be discouraged. Where approved by the Building Official they shall be installed in a pan with 3" deep sides and drained by a 1 ½" diameter pipe to the outside or other approved methods as approved by Building Official. (Amador Co. Ord. Sec. 15.04.022)
- Exhaust fan ducts shall terminate outside the structure. (UBC 609.10)

WATER HEATERS

- A shut-off shall be installed on the cold water supply to the water heater. (UPC 605.3)
- Insulate hot and cold pipes within 5 ft. of water heater. (State Energy Regs.)
- Water Heater shall have min. R-12 insulation. (State Energy Regs.)
- Elevate gas appliances 18" in garage. (UPCV 510.1)
- Water heater pressure relief valve shall terminate outside the structure. No part of the piping system shall be trapped, and the terminal end of the pipe shall not be threaded. (UPC 608.5)
- Water heater over 42 gallons (400 lbs filled) requires special listed seismic support. (UBC 1632)

Site Address _____

Permit Number _____

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required; however, use of this form to provide the information is optional.) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(b).

HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg. heat pump)	CEC Certified Mfr Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.) ¹ [\geq CF-1R value]	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Cooling Equipment

Equip. Type (pkg. heat pump)	CEC Certified Compressor Unit Mfr Name and Model Number	# of Identical Systems	Efficiency (SEER, etc.) ¹ [\geq CF-1R value]	Duct Location (attic, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

1. \geq reads greater than or equal to.

I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the *Appliance Efficiency Regulations* or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name)
OR General Contractor (Co. Name) OR Owner

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std, Point-of-Use)	If Recirculation, Control Type	# of Identical Systems	Rated ² Input (kW or Btu/hr)	Tank Volume (gallons)	Efficiency ² (EF, RE)	Standby ² Loss (%)	External Insulation R-value ³
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

- 2 For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery Efficiency, Standby Loss and Rated Input. For instantaneous gas water heaters, list Recovery Efficiency and Rated Input.
- 3. R-12 external insulation is mandatory for storage water heaters with an energy factor of less than 0.58.

Faucets & Shower Heads:

All faucets and showerheads installed are certified to the Commission, pursuant to Title 24, Part 6, Section 111.

I, the undersigned, verify that equipment listed above my signature is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the *Appliance Efficiency Regulations* or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupancy

Site Address _____

Permit Number _____

FENESTRATION/GLAZING:

Manufacturer/Brand Name (GROUP LIKE PRODUCTS)	Product U-Factor ¹ (≤ CF-1R value) ²	Product SHGC ¹ (≤ CF-1R value) ²	# of Panes	Total Quantity of Like Product (Optional)	Square Feet	Exterior Shading Device or Overhang	Comments/Location/Special Features
1. _____	_____	_____	_____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____	_____

¹ Manufactured fenestration products use the values from the product label. Field fabricated fenestration products use the default values from Section 116 of the Energy Efficiency Standards.

² Installed U-Factor must be less than or equal to values from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (exterior or overhang) is installed as specified on the CF-1R. Alternatively, installed weighted average U-Factors for the total fenestration area are less than or equal to values from CF-1R.

I, the undersigned, verify that the fenestration/glazing listed above my signature: 1) is the actual fenestration product installed; 2) is equivalent to or has a lower U-Factor and lower SHGC than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

Item #s (if applicable)	Signature, Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
Item #s (if applicable)	Signature, Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
Item #s (if applicable)	Signature, Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupancy

Project Title..... McKinney Guest House Date..08/07/02 22:01:36
 Project Address..... 9201 Blue Sky Drive *****
 Ione, CA 95640 *v6.01*
 Documentation Author... Patricia Smiley *****
 Smiley Energy Consulting
 19450 Red Hill Mine Rd
 Pine Grove, CA 95665
 209-296-5096
 Climate Zone..... 12
 Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.

Building Permit #	
Plan/Check#	Date
536	8/7/02
Field Check#	Date

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-TOC
 User#-MP2072 User-Smiley Energy Consulting Run-Typical House

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RECEIVED
 NOV - 7 2002
 AMADOR COUNTY
 BUILDING DEPT.

Project Title..... McKinney Guest House

Date..08/07/02 22:01:36

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-FORM CF-1R
User#-MP2072 User-Smiley Energy Consulting Run-Typical House

REMARKS

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance specifications needed to comply with Title-24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. When this certificate of compliance is submitted for a single building plan to be built in multiple orientations, any shading feature that is varied is indicated in the Special Features Modeling Assumptions section.

DESIGNER or OWNER

DOCUMENTATION AUTHOR

Name.... Ron McKinney
Company.....
Address. 9201 Blue Sky Drive
Ione, CA 95640
Phone... 274-6515
License.....
Signed.. Ron McKinney
(date)

Name.... Patricia Smiley
Company. Smiley Energy Consulting
Address. 19450 Red Hill Mine Rd
Pine Grove, CA 95665
Phone... 209-296-5096
Signed.. Patricia Smiley 8/7/02
(date)

ENFORCEMENT AGENCY

Name.... Bob Risk
Title... Plans Examiner
Agency.. Amador County Bldg. Dept.
Phone... 209-6422
Signed.. Bob Risk JUN 26 2003
(date)

Project Title..... McKinney Guest House

Date..08/07/02 22:01:36

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-FORM MF-1R User#-MP2072 User-Smiley Energy Consulting Run-Typical House
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pilot light (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr).

✓

LIGHTING MEASURES

150(k)1: Luminaires for general lighting in kitchens shall have lamps with an efficacy of 40 lumens/watt or greater for general lighting in kitchens. This general lighting shall be controlled by a switch on a readily accessible lighting control panel at an entrance to the kitchen.

Design- er	Enforce- ment
✓	<i>Bob</i>

150(k)2: Rooms with a shower or bathtub must have either at least one luminaire with lamps with an efficacy of 40 lumens/watt or greater switched at the entrance to the room or one of the alternatives to this requirement allowed in Sec. 150(k)2.; and recessed ceiling fixtures are IC (insulation cover) approved.

✓	<i>Bob</i>
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Project Title..... McKinney Guest House Date..08/07/02 22:01:36
 Project Address..... 9201 Blue Sky Drive *****
 Ione, CA 95640 *v6.01*
 Documentation Author... Patricia Smiley *****
 Smiley Energy Consulting
 19450 Red Hill Mine Rd
 Pine Grove, CA 95665
 209-296-5096

Building Permit #
Plan Check / Date
Field Check / Date

Climate Zone..... 12
 Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-FORM C-2R
 User#-MP2072 User-Smiley Energy Consulting Run-Typical House

MICROPAS6 ENERGY USE SUMMARY			
Energy Use (kBtu/sf-yr)	Standard Design	Proposed Design	Compliance Margin
Space Heating.....	17.06	17.63	-0.57
Space Cooling.....	11.09	17.98	-6.89
Water Heating.....	19.87	12.16	7.71
Total	48.02	47.77	0.25

*** Building complies with Computer Performance ***

GENERAL INFORMATION

Conditioned Floor Area..... 1090 sf
 Building Type..... Single Family Detached
 Construction Type New
 Building Front Orientation. Front Facing 180 deg (S)
 Number of Dwelling Units... 1
 Number of Building Stories. 1
 Weather Data Type..... FullYear

Floor Construction Type.... Raised Floor
 Number of Building Zones... 1
 Conditioned Volume..... 9760 cf
 Slab-On-Grade Area..... 28 sf
 Glazing Percentage..... 10.9 % of floor area
 Average Glazing U-factor... 0.97 Btu/hr-sf-F
 Average Glazing SHGC..... 0.69
 Average Ceiling Height..... 9 ft

BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Volume (cf)	# of Dwell Units	Cond- itioned	Thermostat Type	Vent Height (ft)	Vent Area (sf)	Air Leakage Credit
HOUSE Residence	1090	9760	1.00	Yes	Setback	2.0	Standard	No

Project Title..... McKinney Guest House

Date..08/07/02 22:01:36

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-FORM C-2R
 User#-MP2072 User-Smiley Energy Consulting Run-Typical House

OVERHANGS AND SIDE FINIS

Surface	Area (sf)	Window		Overhang				Left Fin		Right Fin			
		Wdth	Hgth	Dpth	Hght	Left Ext	Right Ext	Ext	Dpth	Hght	Ext	Dpth	Hght
5 Window	18.0	n/a	3.0	1.0	0.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6 Window	12.0	n/a	3.0	1.0	0.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7 Window	9.0	n/a	3.0	1.0	0.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8 Window	18.0	n/a	3.0	1.0	4.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

SLAB SURFACES

Slab Type	Area (sf)
HOUSE	
Standard Slab	28

HVAC SYSTEMS

System Type	Minimum Efficiency	Refrigerant Charge and Airflow	Duct Location	Duct R-value	Tested Duct Leakage	ACCA Manual D	Duct Eff
HOUSE							
Furnace	0.700 AFUE	n/a	None	R-n/a	n/a	n/a	1.000
NoCoolingTXV	10.00 SEER	Yes	Attic	R-4.2	No	No	0.674

WATER HEATING SYSTEMS

Tank Type	Heater Type	Distribution	Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
1 Instantan	Gas	Standard		1	n/a	n/a	R-n/a

WATER HEATING SYSTEMS DETAIL

System	Recovery Efficiency	Rated Input	Standby Loss Fraction	Internal Tank Insulation R-value	Pilot Light
1 Instantan	0.76	n/a	n/a	R- n/a	0

SPECIAL FEATURES AND MODELING ASSUMPTIONS

*** Items in this section should be documented on the plans, ***
 *** installed to manufacturer and CEC specifications, and ***
 *** verified during plan check and field inspection. ***

This building does not have a cooling system installed.

This building incorporates non-standard Water Heating System

Project Title..... McKinney Guest House

Date..08/07/02 22:01:36

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-FORM C-2R User#-MP2072 User-Smiley Energy Consulting Run-Typical House

REMARKS

APN 11-160-003-00

Project converts existing storage bldg to conditioned guest house

Report does not include unconditioned ground floor area.

Report considers front as S. facing entry door from stairway.

Space uses no air conditioning system.

Modeled w/default ducted A/C system as per Res. Manual.

Default aluminum dual pane glazing values quoted.

Skylight uses single pane values.

Report reflects minimums required to comply w/Title 24.

Actual materials used will meet or exceed values used here.

Project Title..... McKinney Guest House Date..08/07/02 22:01:36
 Project Address..... 9201 Blue Sky Drive *****
 Ione, CA 95640 *v6.01*
 Documentation Author... Patricia Smiley *****
 Smiley Energy Consulting
 19450 Red Hill Mine Rd
 Pine Grove, CA 95665
 209-296-5096
 Climate Zone..... 12
 Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.

Building Permit #	
Plan Check	Date
<i>Bob</i>	<i>Risk</i>
Field Check/ Date	

MICROPAS6 v6.01 File-MCKIN Wth-CTZ12S92 Program-HVAC SIZING
 User#-MP2072 User-Smiley Energy Consulting Run-Typical House

GENERAL INFORMATION

Floor Area..... 1090 sf
 Volume..... 9760 cf
 Front Orientation..... Front Facing 180 deg (S)
 Sizing Location..... ELECTRA PH
 Latitude..... 38.3 degrees
 Winter Outside Design..... 28 F
 Winter Inside Design..... 70 F
 Summer Outside Design..... 102 F
 Summer Inside Design..... 78 F
 Summer Range..... 41 F
 Interior Shading Used..... No
 Exterior Shading Used..... No
 Overhang Shading Used..... No
 Latent Load Fraction..... 0.20

HEATING AND COOLING LOAD SUMMARY

Description	Heating (Btuh)	Cooling (Btuh)
Opaque Conduction and Solar.....	8469	3276
Glazing Conduction.....	4852	2773
Glazing Solar.....	n/a	7445
Infiltration.....	5962	2028
Internal Gain.....	n/a	1425
Ducts.....	0	1695
Sensible Load.....	19283	18642
Latent Load.....	n/a	3728
Minimum Total Load	19283	22370

Note: The loads shown are only one of the criteria affecting the selection of HVAC equipment. Other relevant design factors such as air flow requirements, outside air, outdoor design temperatures, coil sizing, availability of equipment, oversizing safety margin, etc., must also be considered. It is the HVAC designer's responsibility to consider all factors when selecting the HVAC equipment.