

CITY OF SACRAMENTO

Permit No: 0317746

1231 I Street, Sacramento, CA 95814

Insp Area: 1
Thos Bros: 297 H3

Site Address: 136 MEISTER WY SAC
Parcel No: 004-0063-009

Sub-Type: ASFR
Housing (Y/N): N

CONTRACTOR
MKI CONSTRUCTION
10087 MILL STATION RD SUITE F
SACRAMENTO CA 95827

OWNER
RIEDELLE JOE & SUE
136 MEISTER WY
SACRAMENTO CA 95819

ARCHITECT

Nature of Work: ADD 400 SF (FAMILY, LAUNDRY, & BATHROOM)

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class AB License Number 785832 Date 12/10/07 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the Contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

PAID
CITY OF SACRAMENTO
DEC 10 2003

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 12/10/07 Applicant/Agent Signature [Signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier EXEMPT Policy Number NO EMPLOYEES Exp Date _____

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 12/10/07 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

City of Sacramento Planning Division
PLANNING REVIEW FOR BUILDING PERMIT SUBMITTAL

ADDRESS: 136 MEISTER WAY	APN: 004-0063-009
DRPB AREA / PUD / SPD: NA	ZONING: R-1
EXISTING LAND USE: SFR WITH ATTACHED GARAGE	
PROPOSED USE: ADDITION TO REAR OF EXISTING SFR (FAMILY ROOM, LAUNDRY ROOM, BATHROOM)	
<p>PLANNING STAFF WILL CHECK ONE OR MORE OF THE ITEMS BELOW:</p> <p><input type="checkbox"/> Planning review is NOT required.</p> <p><input type="checkbox"/> Use is NOT allowed; applicant CANNOT submit for plan check.</p> <p><input type="checkbox"/> Requires APPLICATION(s): PC ZA IR ER DR PB</p> <p style="padding-left: 40px;">Required Planning application must be submitted <i>before</i> project can be submitted for plan check.</p> <p><input type="checkbox"/> Application(s) IN PROGRESS:</p> <p style="padding-left: 40px;">Applicant may submit for concurrent building permit plan check, at applicant's risk. Building Division must check with Planning staff and/or SITE before issuing building permit.</p> <p><input type="checkbox"/> Application(s) COMPLETED:</p> <p style="padding-left: 40px;">Building permit must conform to approved plans and comply with all conditions of approval. Do NOT issue building permit prior to end of 10 day appeal period.</p> <p><input checked="" type="checkbox"/> Plans may be submitted for plan check. Plan checker(s) shall confirm compliance with Zoning Ordinance requirements and all applicable development standards <i>prior to issuance</i> of building permit.</p> <p><input checked="" type="checkbox"/> Meets setback & lot coverage requirements as shown on site plan provided.</p> <p><input checked="" type="checkbox"/> Plans to be submitted have been stamped/signed by Planning counter staff.</p> <p><input type="checkbox"/> Route to SITE for plan check and inspection.</p> <p><input type="checkbox"/> Preliminary review ONLY; the information on this form must be reviewed again and confirmed at the time of building permit submittal.</p>	
<p>COMMENTS: LOT : 51' X 115' = 5865 SQ FT. , ADDITION: 20' X 20' = 400', SFR W/ GARAGE APPROX. 41' X 32' = 1312 TOTAL 1712 SQ FT / 5865 = 29 % LOT COVERAGE. SETBACKS OKAY. NO PLANNING ENTITLEMENTS NEEDED. NOT IN DESIGN REVIEW AREA.</p>	
DATE: 11-12-2003	BY: PCALDWELL

Job	Truss	Truss Type	Qty	Ply	Tru-Truss Engineering 916-933-3478
MISC	MKI	COMMON	1	1	Riddell 136 Mister Wy 95818 Job Reference (optional)

5.100 s May 30 2003 MiTek Industries, Inc. Mon Nov 10 12:31:45 2003 Page 1

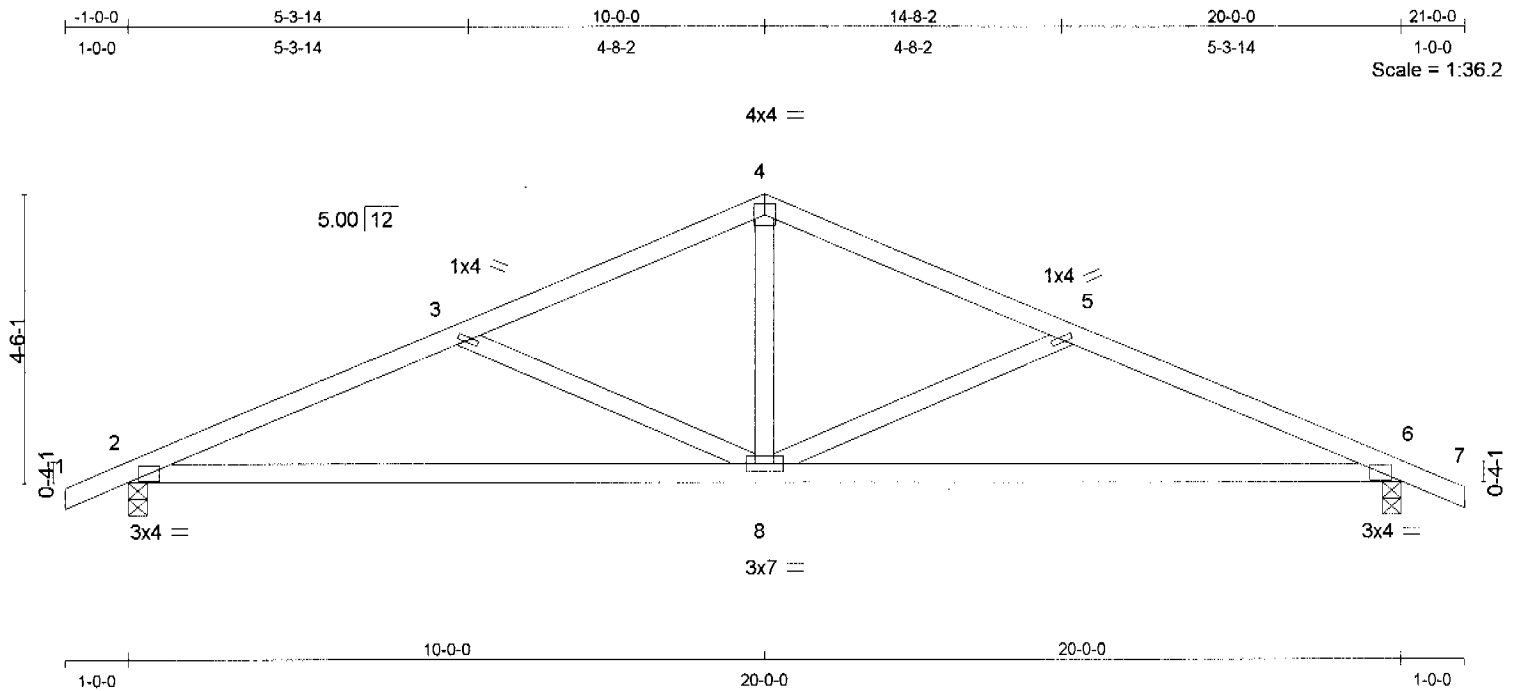


Plate Offsets (X,Y): [5:0-0-5,0-1-4], [6:0-1-14,0-0-2]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MII20	220/195
TCDL 7.0	Plates Increase 0.92	BC 0.80	Vert(LL) -0.25 2-8 >939 360		
BCLL 0.0	Lumber Increase 1.15	WB 0.18	Vert(TL) -0.38 2-8 >622 240		
BCDL 10.0	Rep Stress Incr YES	(Simplified)	Horz(TL) 0.03 6 n/a n/a		
	Code UBC97/ANSI95				Weight: 79 lb

LUMBER
 TOP CHORD 2 X 4 DF No.1&Btr
 BOT CHORD 2 X 4 DF No.1&Btr
 WEBS 2 X 4 DF Stud/Std

BRACING
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.

REACTIONS (lb/size) 2=703/0-3-8, 6=703/0-3-8
 Max Horz 2=-36(load case 7)
 Max Uplift 2=-122(load case 6), 6=-122(load case 7)

FORCES (lb) - First Load Case Only
 TOP CHORD 1-2=8, 2-3=-1095, 3-4=-827, 4-5=-827, 5-6=-1095, 6-7=8
 BOT CHORD 2-8=1004, 6-8=1004
 WEBS 3-8=-264, 4-8=412, 5-8=-264

NOTES

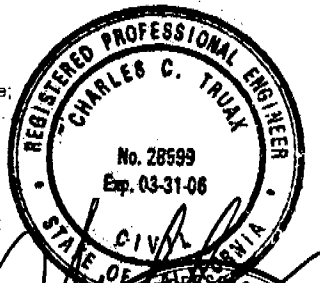
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-98; 85mph; h=25ft; TCDL=4.2psf; BCDL=6.0psf; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2 and 122 lb uplift at joint 6.

LOAD CASE(S) Standard

CITY OF SACRAMENTO
 NORTH PERMIT
 CENTER

NOV 12 2003

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This individual component is to be used in a building system designed by others. Loading criteria and dimensions were provided by others and must be verified and approved for the specific application by the project design professional. Temporary and permanent bracing design is the responsibility of others. For additional information contact WTCA.

TRU-TRUSS ENGINEERING
 El Dorado Hills, CA 95762

Job	Truss	Truss Type	Qty	Ply	Tru-Truss Engineering 916-933-3478
MISC	MKI	COMMON	1	1	Riddell 136 Mister Wy 95818 Job Reference (optional)

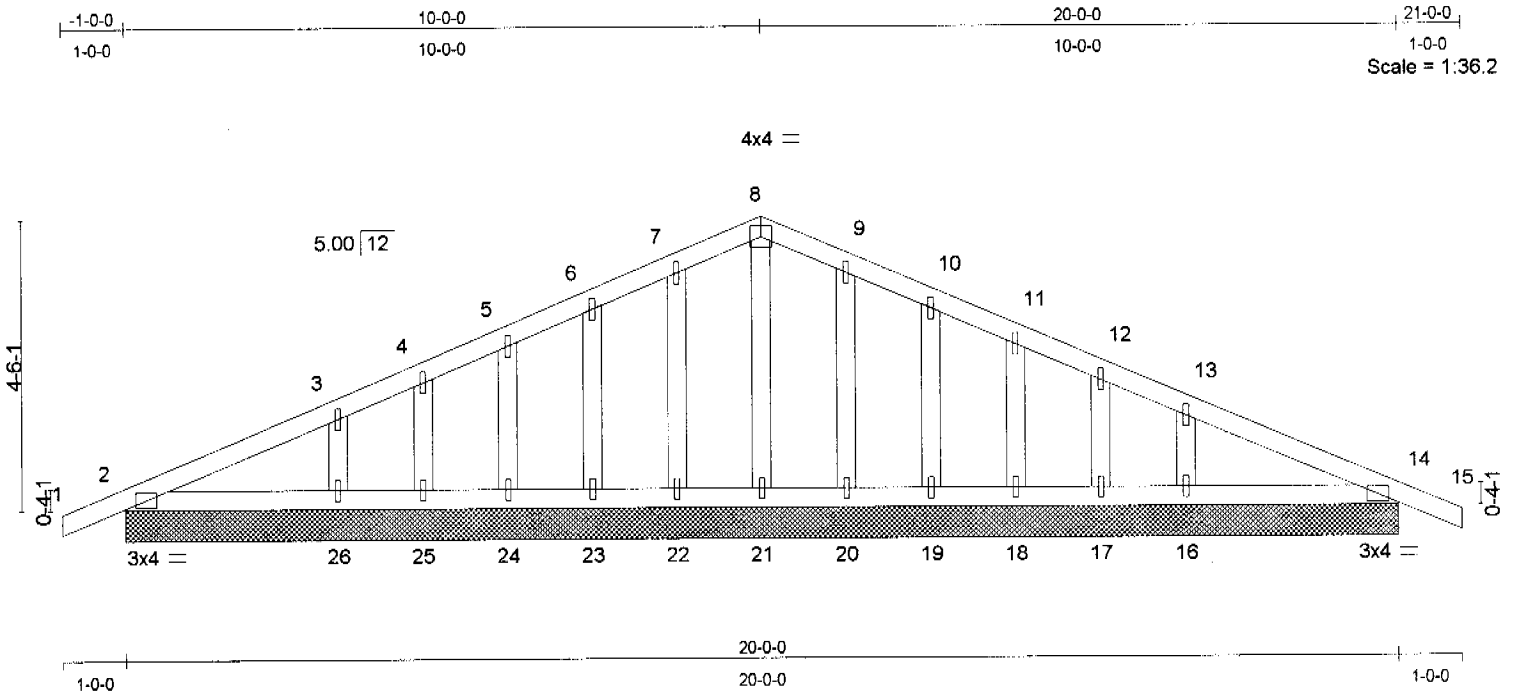


Plate Offsets (X,Y): [9:0-2-12,0-1-4], [10:0-2-12,0-1-4], [11:0-2-12,0-1-4], [12:0-2-12,0-1-4], [13:0-2-12,0-1-4], [14:0-1-14,0-0-2], [16:0-2-0,0-1-4], [17:0-2-0,0-1-4], [18:0-2-0,0-1-4], [19:0-2-0,0-1-4], [20:0-2-0,0-1-4]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 2.0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MII20	185/148
TCDL 7.0	Lumber Increase 0.92	BC 0.06	Vert(TL)	0.00	1	>999		
BCLL 10.0	Rep Stress Incr YES	WB 0.04	Horz(TL)	0.00	14	n/a		
BCDL 10.0	Code UBC97/ANSI95	(Matrix)					Weight: 91 lb	

LUMBER
 TOP CHORD 2 X 4 DF No.1&Btr
 BOT CHORD 2 X 4 DF No.1&Btr
 OTHERS 2 X 4 HF Stud/Std

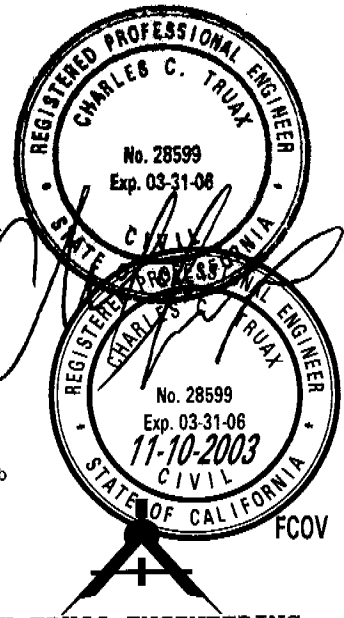
BRACING
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=147/20-0-0, 14=147/20-0-0, 21=83/20-0-0, 22=88/20-0-0, 23=86/20-0-0, 24=100/20-0-0, 25=32/20-0-0, 26=212/20-0-0, 20=88/20-0-0, 19=86/20-0-0, 18=100/20-0-0, 17=32/20-0-0, 16=212/20-0-0
 Max Horz 2=-36(load case 7)
 Max Uplift 2=-11(load case 6), 14=-17(load case 7), 23=-3(load case 6), 25=-7(load case 6), 19=-4(load case 7), 17=-7(load case 7)
 Max Grav 2=147(load case 1), 14=147(load case 1), 21=83(load case 1), 22=90(load case 8), 23=86(load case 8), 24=100(load case 1), 25=32(load case 8), 26=212(load case 8), 20=90(load case 9), 19=86(load case 9), 18=100(load case 1), 17=32(load case 9), 16=212(load case 9)

FORCES (lb) - First Load Case Only
 TOP CHORD 1-2=16, 2-3=25, 3-4=-29, 4-5=7, 5-6=-19, 6-7=-19, 7-8=-19, 8-9=-19, 9-10=-19, 10-11=-19, 11-12=-14, 12-13=-29, 13-14=-36, 14-15=16
 BOT CHORD 2-26=6, 25-26=6, 24-25=6, 23-24=6, 22-23=6, 21-22=6, 20-21=6, 19-20=6, 18-19=6, 17-18=6, 16-17=6, 14-16=6
 WEBS 8-21=-56, 7-22=-61, 6-23=-61, 5-24=-67, 4-25=-29, 3-26=-138, 9-20=-61, 10-19=-61, 11-18=-67, 12-17=-29, 13-16=-138

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-98; 85mph; h=25ft; TCDL=4.2psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS interior zone and C-C exterior zone cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1x4 MII20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 17 lb uplift at joint 14, 3 lb uplift at joint 23, 7 lb uplift at joint 25, 4 lb uplift at joint 19 and 7 lb uplift at joint 17.

LOAD CASE(S) Standard



This individual component is to be used in a building system designed by others. Loading criteria and dimensions were provided by others and must be verified and approved for the specific application by the project design professional. Temporary and permanent bracing design is the responsibility of others. For additional information contact WTCA.

TRU-TRUSS ENGINEERING
 El Dorado Hills, CA 95762



CITY OF SACRAMENTO, CALIFORNIA

BUILDING & SAFETY DIVISION 1231 I STREET, (916) 264-1965

SPECIAL PACKAGE D FOR RESIDENTIAL ADDITIONS IN CLIMATE ZONE 12

CERTIFICATE OF COMPLIANCE CF-1R ADDITION, 100 TO 999 SQUARE FEET WITH [99-SF EXEMPTIONS & REQUIREMENTS.]

Project Title Riedell addition Date 12/5/02

Project Address 136 Meister way

Total Floor Area Addition: 400 Ft² Total Glazing Area Addition: _____ Ft² Floor Area x 16% = Total allowed. 400 x 16% = 64

REQUIREMENTS THAT APPLY TO NEW AREA FLOOR PLAN MAXIMUM GLASS ALLOWANCE FORMULA.

A. 85 Sq. Ft. B. 35 Sq. Ft. C. 50 Sq. Ft. D. 12 %

NOTE: Using package D, maximum glass allowed is 16%

Total Glass in addition: _____ Total of any removed glass (addition area): _____ Subtract B from A; enter amount in C: _____ Divide C by floor area of addition: _____

Module I (R-19 Ceiling.....R-13 Wall.....R-13 Floor)					
99-SF or Less	50% Max Glazing, No Credit for removed.	0.75 - U-Value	SHGC 0.40 Minimum	No CF-4R, No HERS Testing No Radiant Barrier required.	Sec, *, **, exceptions.
Module II Standard Package-D (R-38 Ceiling.....R-13 Wall.....R-19 Floor)					
100-999 SF	16% Max Glazing See A,B,C,D above	0.65- U-Value 0.75 < 500 SF	SHGC 0.40 Minimum	Radiant Barrier In Addn Only.	Duct, TXV, & HERS Test, CF-R4, AFUE .78 **New 12 SEER, Duct test req. See***
Module III Alternate Package-D (R-38 Ceiling.....R-19-2x6" Wall... or R-13 with R-4.61 Rigid in a 2x4" Wall.....R-19 Floor)					
100-999 SF	16% Max Glazing See A,B,C,D above	0.40-U-Value	SHGC 0.35 Minimum	Min 11 SEER when upgraded or added. Radiant Barrier addition only. See**&***.	AFUE 0.78 min. No CF-R4 required. No Duct, TXV, & HERS Test. **New 12 SEER

Module IV Standard Pkg-D or Computer Performance Compliance

Floor Plans in excess of 999-SF require Performance Compliance of both existing and Addition combined, achieved by an approved Computer Program or, both Existing & Addition Designed and constructed per Module II Package-D.

Both Module II & III may use existing HVAC systems when adequate. Should a 12 SEER be installed in either Module then No HERS/TXV tests required. See Exceptions below.

[All duct R-value 4.2 Min.] [Pre-1978 AFUE .68=OK] [* -New HVAC requires HERS Test 11 SEER Min.] [**-New 12 SEER A/C = No HERS/TVX or CF-R4] [*** No duct work, No HERS required] RB= Radiant barrier underside of roof & Gable walls, shiny side down. Duct Sealed= Ducts certified 6% leakage max. U= U-Value. TXV= Field verified by HERS rater. SEER= A/C Seasonal Energy Efficiency Ratio. SHGC= Window Solar Heat Gain Coefficient. AFUE= Annual Fuel Utilization Efficiency. [See **** & ***** for wall frame and vaulted ceiling requirements.]

QUESTIONNAIRE: (By City of Sacramento Staff) FIELD VERIFY:

1. What year was home built? 1946

2. What is SEER rating of current Air Conditioner? 12

3. What is current Furnace AFUE ? N/A

4. Will Furnace or A/C be upgraded? Yes/No? N/A

5. New water heater (> 50 gal. Exempt)? Yes/No? N/A

6. Note: No duct assembly allowed in wall cavity chases, New Furnace or HVAC requires new Setback thermostats each Zone or unit. Split zones require 2.

2001 Title 24 Residential Energy manual sec 3.1-3.8; sec 7.1-7.6 Effective July 1st, 2001.

****Requires 2x6 assembly, or 2x4 R11 & Ext rigid R4.61. Cannot apply brace panels. *****Requires 2x12 @ Vaulted areas with 1" x 6" foam channel ventilation.

MODULE SELECTED: II

NEW HEATING, COOLING, OR DOMESTIC WATER HEATING

Systems installed in conjunction with the addition must comply with the appliance standards applicable to new installations in new residences. Complete the following standards if new equipment is being installed in conjunction with the room addition: Electric resistant heat not allowed.

HVAC SYSTEMS	Minimum Efficiency	Duct Insulation	Output Manufacturer/Model # (Btu) (or approved equal)
Type: (Furnace, air Conditioner, heat pump)	(SE, SEER, HSPF)		
<u>Air con</u>	<u>13</u>	<u>R4.2</u>	<u>3 ton GE</u>
_____	_____	<u>R4.2</u>	_____
_____	_____	<u>R4.2</u>	_____
HOT WATER SYSTEMS			
System Type	Capacity (gallons)	Manufacturer/Model# (or Approved equal)	Special Features
(storage, gas, electric)			
<u>Gas</u>	<u>40 gal</u>	<u>State</u>	_____
_____	_____	_____	_____

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Chapter 2-53, and Title 20, Chapter 2, subchapter 4, Article 1, of the California Administrative Code. The individual has signed this certificate with overall design responsibility and the building owner, who shall retain a copy of it and transmit the certificate to any subsequent purchaser of the building. When this certificate of compliance is submitted for a single building plan to be built in multiple orientations, all building conservation features that vary are indicated in the Special Feature/Remarks section.

BUILDING OWNER OR DESIGNER	DOCUMENTATION AUTHOR	ENFORCEMENT AGENCY
Name: <u>Scott Kennedy</u>	Name: _____	Name: _____
Title/Firm: <u>MKI Corast</u>	Title/Firm: _____	City of Sacramento
Address: <u>10007 Nulley Station Rd Suite F</u>	Address: _____	1231 I Street
		Sacramento, Ca. 95814

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Signature [Signature] (date) 12/5/02 Signature _____ (date) _____ Signature Approval _____ (date) _____

NOTE: Low-rise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. Items marked with an asterisk (*) may be superseded by more stringent compliance requirements listed on the Certificate of Compliance. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as binding minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

Instructions: Check or initial applicable boxes when completed or enter N/A if not applicable.

DESCRIPTION	DESIGNER	ENFORCEMENT
Building Envelope Measures.		
§150(a): *Minimum R-19 ceiling insulation.	<i>[Signature]</i>	
§150(b): Loose fill insulation manufacturer's labeled R-Value.	<i>[Signature]</i>	
§150(c): *Minimum R-13 wall insulation in wood framed walls or equivalent U-value in metal frame walls (does not apply to exterior masonry walls).	<i>[Signature]</i>	
§150(d): *Minimum R-13 raised floor insulation in framed floors.	<i>[Signature]</i>	
§150(l): Slab edge insulation – water absorption rate no greater than 0.3%; water vapor transmission rate no greater than 2.0 perm/inch.	<i>[Signature]</i>	
§118: Insulation specified or installed meets insulation quality standards. Indicate type and form.	<i>[Signature]</i>	
§116-§117: Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls 1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage. 2. Fenestration products (except field-fabricated), have label with certified U-value, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification. 3. Exterior doors and windows weather-stripped; all joints and penetrations caulked and sealed.	<i>[Signature]</i>	
§150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	<i>[Signature]</i>	
§150(f): Special infiltration barrier installed to comply with §151 meets Commission quality standards.	<i>[Signature]</i>	
§150(e): Installation of Fireplaces, Decorative Gas Appliances, and Gas Logs. 1. Masonry and factory-built fireplaces have: a. Closeable metal or glass door. b. Outside air intake with damper and control. c. Flue damper and control. 2. No continuous burning gas pilot lights allowed.	<i>[Signature]</i>	
Space Conditioning, Water Heating, and Plumbing System Measures.		
§110-§113: HVAC equipment, water heaters, showerheads, and faucets certified by the Commission.	<i>[Signature]</i>	
§150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA, or ACCA.	<i>[Signature]</i>	
§150(i): Setback thermostat on all applicable heating and/or cooling systems.	<i>[Signature]</i>	
§150(j): Pipe and Tank Insulation. 1. Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater. 2. First 5 feet of pipes closest to water heater tank, non-recirculating systems, insulated (R-4 or greater). 3. Backup tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 combined internal/external insulation. 4. All buried or exposed piping insulated in recirculating sections of hot water systems. 5. Cooling system piping below 55°F insulated. 6. Piping insulated between heating source and indirect hot water tank.	<i>[Signature]</i>	
§150(m): Ducts and Fans. 1. All ducts and plenums constructed, installed, insulated, fastened, and sealed to comply with the ICBO 1997 UMC Sections 601 and 603; ducts insulated to a minimum installed R-4.2 or ducts enclosed entirely within conditioned space. Openings shall be sealed with mastic, tape, aerosol sealant, or other duct closure system that meets the applicable requirements of UL181, UL181A, or UL181B and other applicable specified tests for longevity given in §150(m). 2. Exhaust fan systems have backdraft or automatic dampers. 3. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.	<i>[Signature]</i> <i>[Signature]</i>	
§114: Pool and Spa Heating Systems and Equipment. 1. System is certified with 68% thermal efficiency, on-off switch, weatherproof operating instructions, no electric resistance heating, and no pilot light. 2. System is installed with: a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch.		
§115: Gas-fired central furnace, pool heaters, spa heaters, or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with Pilot <150 BTU/hr.)		
Lighting Measures.		
§150(k)1: Luminaries 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.	<i>[Signature]</i>	
§150(k)2: Rooms with a shower or bathtub must either have 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 §150(k)2; and recessed ceiling fixtures are IC (insulation cover) approved.	<i>[Signature]</i>	

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NOTE: *Minimum Measures above only apply to the Insulation R-Values of a Performance Computerized Design per State of California Title-2 minimums even though a Performance Design may show in some instances a lesser application and, do not apply to Prescriptive Packages D or Alternative Package D, Package D must comply strictly within its Module requirements. All others above apply to all