

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0611052

Insp Area: 3
Thos Bros: 337E1

Site Address: 2706 YREKA AV SAC
Parcel No: 041-0064-019

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

CONTRACTOR
OWNER BUILDER

OWNER
SAHIB SHEIK G
7687 EL RITO WAY
SACRAMENTO, CA 95831

ARCHITECT

Nature of Work: PAPERLESS: 2005 SQ FT SFD; 462 U-1; 33 SQ FT COVERED PORCH (LOT 6994 SQ FT)--IN DESIGN REVIEW AREA--

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 _____ License Number 0 _____ Date _____ Contractor 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 improvements with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____
Date 8-23-06 Owner Signature *[Signature]*

PAID
CITY OF SACRAMENTO
AUG 23 2006
NEIGHBORHOODS PLANNING
AND DEVELOPMENT SERVICES

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 8-23-06 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 _____ Policy Number _____ 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 8-23-06 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.



Planning and Building Department
Building Division

CITY OF SACRAMENTO
CALIFORNIA

Downtown Permits Center
1231 I Street, #200
Sacramento, CA 95814-2998

North Permits Center
2101 Arena Blvd., Suite 200
Sacramento, CA 95834

ADDRESS 2706 VREKA Av

PERMIT NO. 0611052

INSPECTION COMMENTS	PERMIT DOCUMENTS
9/18/6 B-261AP JCS	O/K TO WRAP
9/25/6 B-18887W JCS	
9-28-6 B-18887W JCS	S/C
10-2-06 B-18887W JCS	

FINAL APPROVALS	
BUILDING	
ELECTRICAL	
PLUMBING	
MECHANICAL	
FIRE	
SITE	2-25-07 T. Kiri

Insulation Certificate

This is to certify that insulation has been installed in conformance with the current energy regulations, California Administration code. Title 24, State of California, in the building located at:

Site Address: 2706 Yreka Ave. Sacramento CA
Number Street City State

Ceilings:

Blow: Manufacturer Greenfiber Thickness 10.59" R / Value R-38
 Square Feet 1968 # Bags / 1 lb. Per Bag 87

Batts: Manufacturer Johns Manville Thickness 13" R / Value R-38
 Batts: Manufacturer Johns Manville Thickness N/A R / Value N/A

Exterior Walls:

Manufacturer Johns Manville Thickness 3.5" R / Value R-13
 Manufacturer Johns Manville Thickness 6.5" R / Value R-19

Floor Insulation:

Manufacturer Johns Manville Thickness N/A R / Value N/A

Air Infiltration: (Title 24)

Yes | No

Other: _____

General Contractor: Narsh Chandra Lic. # _____

By: _____ Title: _____ Date: _____

Insulation Contractor: Gold Star Insulation, Inc. Lic. # 797510

By: Frances Nyquist Title: Admin. Assistant Date: 10/13/06

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Project Title..... CHANDRA RESIDENCE                               Date..09/14/06 10:59:13
Project Address..... YREKA WAY *****
                  SACRAMENTO, CA *v7.10*
Documentation Author... JENNIFER LARSON ***** | Building Permit # |
                  Larson Energy Documentation |                 |
                  1233 Jonas Ave., #4 | Plan Check / Date |
                  Sacramento, CA 95864 |                 |
                  916-308-4083 | Field Check/ Date |
Climate Zone..... 12
Compliance Method..... MICROPAS7 v7.10 for 2005 Standards by Enercomp, Inc.
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| MICROPAS7 v7.10 File-YREKA Wth-CTZ12S05 Program-FORM CF-1R |
| User#-MP2494 User-Larson Energy Documentati Run-CHANDRA RESIDENCE |
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MICROPAS7 ENERGY USE SUMMARY
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Energy Use          Standard   Proposed   Compliance
(kTDV/sf-yr)       Design     Design     Margin
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Space Heating..... 14.87      12.59      2.28
Space Cooling..... 9.14       7.03       2.11
Water Heating..... 11.93      11.42      0.51
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Total              35.94      31.04      4.90
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*** Building complies with Computer Performance ***
*** HERS Verification Required for Compliance ***
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GENERAL INFORMATION

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HERS Verification..... Required
Conditioned Floor Area.... 2005 sf
Building Type..... Single Family Detached
Construction Type ..... New
Fuel Type ..... NaturalGas
Building Front Orientation. Front Facing 0 deg (N)
Number of Dwelling Units... 1
Number of Building Stories. 1
Weather Data Type..... FullYear

Floor Construction Type.... Slab On Grade
Number of Building Zones... 1
Conditioned Volume..... 18045 cf
Slab-On-Grade Area..... 2005 sf
Glazing Percentage..... 12.1 % of floor area
Average Glazing U-factor... 0.4 Btu/hr-sf-F
Average Glazing SHGC..... 0.35
Average Ceiling Height..... 9 ft

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BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Floor Volume (cf)	# of Dwelling Units	# of People	Conditioned	Thermostat Type	Vent Height (ft)	Vent Area (sf)	Verified Leakage or Housewrap
Residence	2005	18045	1.00	4.0	Yes	Setback	8.0	Standard	No

OPAQUE SURFACES

Surface	Frame Type	Area (sf)	U-factor or	Sheath- Cavity R-val	Act Azm	Solar Gains Tilt	Appendix IV Reference	Location/Comments
1 Wall	Wood	386	0.068	13 4	270	90 Yes	IV.9 C3	Right Wall
2 Wall	Wood	169	0.068	13 4	0	90 Yes	IV.9 C3	Front Wall
3 Wall	Wood	28	0.068	13 4	0	90 Yes	IV.9 C3	Front Wall
4 Wall	Wood	99	0.068	13 4	0	90 Yes	IV.9 C3	Front Wall
5 Wall	Wood	268	0.068	13 4	90	90 Yes	IV.9 C3	Left Wall
6 Wall	Wood	90	0.068	13 4	90	90 Yes	IV.9 C3	Left Wall
7 Wall	Wood	72	0.068	13 4	90	90 Yes	IV.9 C3	Left Wall
8 Wall	Wood	206	0.074	19 0	180	90 Yes	IV.9 A5	Back Wall
9 Roof	Wood	2005	0.026	38 0	n/a	0 Yes	IV.1 A8	Attic Ceiling
10 Door	Other	20	0.500	0 0	0	90 Yes	IV.5 A4	FDOOR
11 Door	Other	20	0.500	0 0	0	90 Yes	IV.5 A4	FDOOR

PERIMETER LOSSES

Surface	Length (ft)	F2 Factor	Insul R-val	Solar Gains	Appendix IV Reference	Location/Comments
12 SlabEdge	200	0.730	R-0	No	IV.26 A1	Exposed Edge

FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
1 Wind Right (W)	20.0	0.400	0.350	270	90	Standard	R1-1
2 Wind Right (W)	24.0	0.400	0.350	270	90	Standard	R1-2
3 Wind Right (W)	24.0	0.400	0.350	270	90	Standard	R1-3
4 Wind Front (N)	6.0	0.400	0.350	0	90	Standard	F2-1
5 Wind Front (N)	6.0	0.400	0.350	0	90	Standard	F2-2
6 Wind Front (N)	15.0	0.400	0.350	0	90	Standard	F3-1

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FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
7 Wind Front (N)	15.0	0.400	0.350	0	90	Standard	F3-2
8 Wind Left (E)	6.0	0.400	0.350	90	90	Standard	L1-1
9 Wind Left (E)	20.0	0.400	0.350	90	90	Standard	L1-2
10 Wind Left (E)	20.0	0.400	0.350	90	90	Standard	L1-3
11 Wind Back (S)	40.0	0.400	0.350	180	90	Standard	B1-1
12 Wind Back (S)	40.0	0.400	0.350	180	90	Standard	B1-2
13 Wind Back (S)	6.0	0.400	0.350	180	90	Standard	B1-3DR

THERMAL MASS

Mass Type	Area (sf)	Thick (in)	Heat Cap	Conductivity	UIMC	Surface R-value	Location/Comments
1 SlabOnGrade	565	3.5	28.0	0.98	4.60	R-0.0	Exposed Slab
2 SlabOnGrade	1440	3.5	28.0	0.98	1.80	R-2.0	Covered Slab
3 InteriorHorz	660	1.0	24.0	0.67	1.70	R-0.0	TILE

HVAC SYSTEMS

System Type	Number of Systems	Minimum Efficiency	Verified EER	Verified Refrig or TXV	Verified Adequate Airflow	Verified Fan Draw	Verified Maximum Watt Cooling Capacity
Furnace	1	0.800 AFUE	n/a	n/a	n/a	n/a	n/a
ACSplit	1	13.00 SEER	No	Yes	No	No	No

HVAC SIZING

System Type	Total Heating Load (Btu/hr)	Sensible Cooling Load (Btu/hr)	Design Cooling Capacity (Btu/hr)	Verified Maximum Cooling Capacity (Btu/hr)
Furnace	29159	n/a	n/a	n/a
ACSplit	n/a	19277	22970	n/a

Sizing Location..... SACRAMENTO CO
 Winter Outside Design..... 30 F
 Winter Inside Design..... 70 F

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Summer Outside Design..... 98 F
 Summer Inside Design..... 75 F
 Summer Range..... 32 F

DUCT SYSTEMS

System Type	Duct Location	Duct R-value	Verified Duct Leakage	Verified Surface Area	Verified Buried Ducts
Furnace	Attic	R-6	Yes	No	No
ACSplit	Attic	R-6	Yes	No	No

WATER HEATING SYSTEMS

Tank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
1 Storage	Gas	Standard	1	.60	50	R- n/a

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 incorporates a HERS verified Refrigerant Charge test or a HERS verified Thermostatic Expansion Valve (TXV). If a cooling system is not installed, then HERS verification is not necessary.

This building incorporates HERS verified Duct Leakage.

~~This building incorporates non standard Natural Vent Area or Vent Height. DEFAULT SETTING~~

This building incorporates a High Mass Design.

HERS REQUIRED VERIFICATION

*** Items in this section require field testing and/or ***
 *** verification by a certified home energy rater under ***
 *** the supervision of a CEC-approved HERS provider using ***
 *** CEC approved testing and/or verification methods and ***
 *** must be reported on the CF-4R installation certificate. ***

This building incorporates a HERS verified Refrigerant Charge test or a HERS verified Thermostatic Expansion Valve (TXV). If a cooling system is not installed, then HERS verification is not necessary.

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HERS REQUIRED VERIFICATION

This building incorporates HERS verified Duct Leakage. Target leakage is calculated and documented on the CF-4R. If the measured CFM is above the target, then corrective action must be taken to reduce the duct leakage and then must be retested. Alternatively, the compliance calculations could be redone without duct testing. If ducts are not installed, then HERS verification is not necessary.

REMARKS

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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.

DESIGNER or OWNER

DOCUMENTATION AUTHOR

Name.... RANDY COWAN
Company. _____
Address. _____

Name.... JENNIFER LARSON
Company. Larson Energy Documentation
Address. 1233 Jonas Ave., #4
Sacramento, CA 95864

Phone... 916-532-7694
License. _____

Phone... 916-308-4083

Signed.. Randy Cowan 9-14-06
(date)

Signed.. Jennifer Larson 9/14/06
(date)

ENFORCEMENT AGENCY

Name.... _____
Title... _____
Agency.. _____

Phone... _____

Signed.. _____
(date)

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 Project Title..... CHANDRA RESIDENCE Date..09/14/06 10:59:13
 Project Address..... YREKA WAY *****
 SACRAMENTO, CA *v7.10*
 Documentation Author... JENNIFER LARSON ***** | Building Permit # |
 Larson Energy Documentation |
 1233 Jonas Ave., #4 | Plan Check / Date |
 Sacramento, CA 95864 |
 916-308-4083 | Field Check/ Date |
 Climate Zone..... 12
 Compliance Method..... MICROPAS7 v7.10 for 2005 Standards by Enercomp, Inc.

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 | User#-MP2494 User-Larson Energy Documentati Run-CHANDRA RESIDENCE |
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Note: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supersede the items marked with an asterisk (*). When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

BUILDING ENVELOPE MEASURES

	n/a	De-sign-er	En-force-ment
*150(a): Minimum R-19 insulation in wood framed ceiling or equivalent U-factor in metal frame ceiling	_____	<u>✓</u>	_____
150(b): Loose fill insulation manufacturer's labeled R-Value	_____	<u>✗</u>	_____
*150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls)	_____	<u>✗</u>	_____
*150(d): Minimum R-13 raised floor insulation in framed floors or equivalent U-factor	<u>✓</u>	_____	_____
150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs			
1. Masonry and factory-built fireplaces have:			
a. Closeable metal or glass door covering the entire opening of the firebox	<u>✗</u>	_____	_____
b. Outside air intake with damper and control, flue damper and control	<u>✗</u>	_____	_____
2. No continuous burning gas pilot lights allowed	<u>✓</u>	_____	_____
150(f): Air retarding wrap installed to comply with Sec. 151 meets requirements specified in ACM Residential Manual	_____	<u>✗</u>	_____
150(g): Vapor barriers mandatory in Climate Zones 14,16 only	<u>✗</u>	_____	_____
150(l): Slab edge insulation - water absorption rate for the insulation material without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch	<u>✓</u>	_____	_____
118: Insulation specified or installed meets insulation quality standards. Indicate type and include CF-6R form	_____	<u>✗</u>	_____
116-17: Fenestration Products, Exterior Doors and Infiltration/Exfiltration Controls			
1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage	_____	<u>✗</u>	_____
2. Fenestration products (except field-fabricated) have	_____	_____	_____

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- label with certified U-factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification
- 3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed

SPACE CONDITIONING, WATER HEATING AND PLUMBING SYSTEM MEASURES

- | | De-
sign-
er | En-
force
ment |
|---|-------------------------------------|----------------------|
| 110-113: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission | n/a | — |
| 150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA | <input checked="" type="checkbox"/> | — |
| 150(i): Setback thermostat on all applicable heating and/or cooling systems | <input checked="" type="checkbox"/> | — |
| 150(j): Water system pipe and tank insulation and cooling systems line insulation | <input checked="" type="checkbox"/> | — |
| 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 R12 or greater | <input checked="" type="checkbox"/> | — |
| 2. Back-up tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal and indicated on the exterior of the tank showing the R-value | <input checked="" type="checkbox"/> | — |
| 3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness: | — | — |
| 1. First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes shall be insulated to Table 150B | <input checked="" type="checkbox"/> | — |
| 2. Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A | <input checked="" type="checkbox"/> | — |
| 4. Steam hydronic heating systems or hot water systems >15 psi, meet requirements of Table 123-A | <input checked="" type="checkbox"/> | — |
| 5. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance and wind | <input checked="" type="checkbox"/> | — |
| 6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space | <input checked="" type="checkbox"/> | — |
| 7. Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation | <input checked="" type="checkbox"/> | — |
| *150(m): Ducts and Fans | — | — |
| 1. All ducts and plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, | — | — |

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- UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used ✓
- 2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts ✓
- 3. Joints and seams of duct systems and their components shall not be sealed with cloth backed rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands ✓
- 4. Exhaust fan systems have back draft or automatic dampers ✓
- 5. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers ✓
- 6. Protection of Insulation. Insulation shall be protected from damage due to sunlight, moisture, equipment maintenance and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material ✓
- 7. Flexible ducts cannot have porous inner cores ✓
- 114: Pool and Spa Heating Systems and Equipment
 - 1. A thermal efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the heater, weatherproof operating instructions, no electric resistance heating and no pilot light ✓
 - 2. System is installed with:
 - a. At least 36 inches of pipe between filter and heater for future solar heating
 - b. Cover for outdoor pools or outdoor spas. x
 - 3. Pool system has directional inlets and a circulation pump time switch x
- 115: Gas-fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr) x
- 118(i): Cool Roof material meets specified criteria x

RESIDENTIAL LIGHTING MEASURES

- 150(k)1: HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, and do not contain a medium screw base socket (E24/E26). Ballast for lamps 13 watts or greater are electronic and have an output frequency no less than 20 kHz n/a De-sign-er En-force-ment

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- 150(k)1: HIGH EFFICACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, luminaire has factory installed HID ballast ✓
- 150(k)2: Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50 percent of the wattage, as determined in Sec. 130(c), of permanently installed luminaires in kitchens may be in luminaires that are not high efficacy luminaires, provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires ✓
- 150(k)3: Permanently installed luminaires in bathrooms, garages, laundry rooms, utility rooms shall be high efficacy luminaires OR are controlled by an occupant sensor(s) certified to comply with Section 119(d) that does not turn on automatically or have an always on option ✓
- 150(k)4: Permanently installed luminaires located other than in kitchens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy luminaires (except closets less than 70 ft²), OR are controlled by a dimmer switch OR are controlled by an occupant sensor(s) that complies with Section 119(d) that does not turn on automatically or have an always on option ✓
- 150(k)5: Luminaires that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are certified air tight to ASTM E283 and labeled as air tight (AT) to less than 2.0 CFM at 75 Pascals ✓
- 150(k)6: Luminaires providing outdoor lighting and permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy luminaires (not including lighting around swimming pools/water features or other Article 680 locations) OR are controlled by occupant sensors with integral photo control certified to comply with Section 119(d) ✓
- 150(k)7: Lighting for parking lots for 8 or more vehicles shall have lighting that complies with Sec. 130, 132, and 147. Lighting for parking garages for 8 or more vehicles shall have lighting that complies with Sec. 130, 131, and 146 ✓
- 150(k)8: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires OR are controlled by an occupant sensor(s) certified to comply with Section 119(d) ✓

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MICROPAS7 v7.10 File-YREKA Wth-CTZ12S05 Program-FORM MF-1R
 User#-MP2494 User-Larson Energy Documentati Run-CHANDRA RESIDENCE

At least 50% of the total rated wattage of permanently installed luminaires in the kitchen must be in luminaires that are high efficacy luminaires as defined in Table 150-C. Luminaires that are not high efficacy must be switched separately.

KITCHEN LIGHTING SCHEDULE

Luminaire Type	High Efficacy (Yes/No)	Watts	Quantity	High Efficacy Watts	Other Watts
CFL-1	Yes	26	x 4	= 104	or
ATL-1	No	40	x 1	=	or 40
			x	=	or
			x	=	or
			x	=	or
Total A=				104	B= 40

Complies if A >= B Yes X No

Rules for Determining Residential Kitchen Luminaire Wattage

Screw Base Sockets - Section 130(c) 1

(Not containing permanently installed ballasts) The maximum relamping rated wattage of the luminaire, as listed on a permanent factory-installed label (luminaire wattage is not based on type or wattage of lamp that is used).

Permanently or Remotely Installed Ballasts - Section 130(c) 2

The operating input wattage of the rated lamp/ballast combination based on values published in manufacturer's catalogs based on independent testing lab reports.

Line Voltage Track Lighting (90 through 480 volts) - Section 130(c) 3

1. Volt-ampere (VA) rating of the branch circuit(s) feeding the tracks; or
2. For tracks equipped with an integral current limiter, the higher of
 - The wattage (or VA) rating of an approved integral current limiter controlling the tra
 - 15 watts per linear foot of the track; or
3. For tracks without an integral current limiter, the higher of
 - 45 watts per linear foot of the track or
 - The total wattage of all of the luminaires included in the system.

Low Voltage Track Lighting (less than 90 volts) - Section 130(c) 4

Rated wattage of the transformer feeding the system, as shown on a permanent factory-installed label

Other Lighting - Section 130(c) 5

(Lighting systems that are not addressed in Sections 130 (c) 1-4) The maximum rated wattage, or operating input wattage of the system, listed on a permanent factory installed label, or published in manufacturer's catalogs, based on independent testing lab reports.

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Project Title..... CHANDRA RESIDENCE                               Date..09/14/06 10:59:13
Project Address..... YREKA WAY *****
                  SACRAMENTO, CA *v7.10*
Documentation Author... JENNIFER LARSON *****
                  Larson Energy Documentation
                  1233 Jonas Ave., #4
                  Sacramento, CA 95864
                  916-308-4083
Climate Zone..... 12
Compliance Method..... MICROPAS7 v7.10 for 2005 Standards by Enercomp, Inc.
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| MICROPAS7 v7.10 File-YREKA Wth-CTZ12S05 Program-HVAC SIZING |
| User#-MP2494 User-Larson Energy Documentati Run-CHANDRA RESIDENCE |
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GENERAL INFORMATION

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Floor Area..... 2005 sf
Volume..... 18045 cf
Front Orientation..... Front Facing 0 deg (N)
Sizing Location..... SACRAMENTO CO
Latitude..... 38.6 degrees
Winter Outside Design..... 30 F
Winter Inside Design..... 70 F
Summer Outside Design..... 98 F
Summer Inside Design..... 75 F
Summer Range..... 32 F
Interior Shading Used..... Yes
Exterior Shading Used..... Yes
Overhang Shading Used..... Yes
Latent Load Fraction..... 0.19

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HEATING AND COOLING LOAD SUMMARY

Description	Heating (Btu/hr)	Cooling (Btu/hr)
Opaque Conduction and Solar.....	14654	4921
Glazing Conduction and Solar.....	3872	6836
Infiltration.....	6725	2399
Internal Gain.....	n/a	2520
Ducts.....	3908	2600
Sensible Load.....	29159	19277
Latent Load.....	n/a	3693
Minimum Total Load	29159	22970

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.

F. Exterior Materials: Exterior materials shall be of highest quality found on adjacent and surrounding structures, be durable and shall compliment and improve the aesthetics of the surrounding area. Materials shall be consistent on all street facades and shall wrap a minimum of 2'-0" around facades not facing the street.

Siding

Check one:

- 1. Horizontal siding provided (wood, composite, or cementitious).
- 2. Wood shingle or shake siding provided.
- 3. Plaster (stucco) siding and door/window trim provided.
- 4. Brick as main facade material provided.
- 5. Grooved, textured plywood siding (1/2" or thicker) with vertical and horizontal trim (2" X 6" min. around doors and windows) and a brick wainscot provided. If untextured plywood with no grooves is proposed, 1X battens at a min. of 12" on center shall be provided to create a board and batten appearance.
- 6. Vinyl siding with dimensional trim at doors and windows provided.
- 7. Metal siding, simulating materials listed above, with dimensional trim at doors and windows provided.

Roofing

Check one:

- 1. Laminated dimensional composition shingles (30yr. min.) with heavy ridge caps provided.
- 2. Concrete or tile roofing provided.
- 3. Wood shake or shingle roofing provided.
- 4. Metal dimensional roofing (that simulates above listed materials)

Gutters/Downspouts (Required if matches existing)

- 1. Painted or prefinished gutters/downspouts shall be provided.

G. Doors/Windows: Decorative door and window types and trim styles shall be provided to compliment the building design. Decorative windows shall be provided at street facing facades. Decorative trim shall be provided on windows on facades facing active use areas such as parks, schools and other active public spaces. Windows not visible from street view may be of simpler design and trim. All windows shall have integral paint color or shall be wood paint grade.

Entry doors

- 1. Exterior doors with raised panel or other decorative design and decorative trim are provided.

Garage doors

Check one:

- 1. Decorative sectional garage door with raised panel or other decorative design and decorative trim provided.
- 2. Alternative garage door that provides raised panel or other decorative design provided.

Windows

Check one:

- 1. Double or single hung windows with decorative trim/sill provided.
- 2. Horizontal sliding windows with grids and decorative trim/sill provided.
- 3. Horizontal sliding windows with wide frames and decorative trim, no grids, and with decorative shutters and/or decorative plant shelf provided.

H. Mechanical Equipment: Mechanical equipment shall not be placed on the roof where it may be visible from any street view.

Check one:

- 1. Mechanical equipment shall be attic and/or ground mounted with screening.
- 2. Mechanical equipment shall be roof mounted where not visible from any street views and a diagram indicating compliance provided.

CITY OF SACRAMENTO DESIGN REVIEW	
PROJECT NO:	ER06-1166
APPROVED BY:	<i>B. Dugan</i>
APPROVAL DATE:	7-21-06