

B

Type

Docs

Plans

BLD03-2953

Building Permit Number

1236

Street Number

HUGHES AVE

Street Name

Community Code

APN



COUNTY OF SONOMA

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403
(707) 565-1900 FAX (707) 565-1103

Application Fees / Invoice for Building Permit: BLD03-2953

Project Address: 1236 HUGHES AVE ROS Cross Street: BURBANK AVE APN: 125-213-005 Description: SFD ADDN - NEW BATH & CLOSET Res/Com: R Std/Quick: Q Fire District: ROSELAND FIRE GENERAL (S.R.)	Status: PC APRVD Printed: August 12, 2003 Initialized by: LHELTON Activity Type: B-BLD 201 Insp Area: 10 Site Review File #: Site Review Fees Paid: \$95.00
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Owner: CRUZ JORGE & ANGELICA 1236 HUGHES AVE SANTA ROSA CA 95407-7195 707 545 0391	Applicant: CRUZ JORGE & ANGELICA 1236 HUGHES AVE SANTA ROSA CA 95407-7195 707 545 0391
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Valuation:

Occupancy	Type	Factor	Sq Feet	Valuation
Dwellings	DWEL-Type V - Wd Frme	101.35	113	\$11,452.55
	Totals...		113	\$11,452.55*

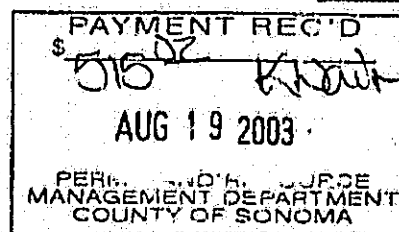
Fees:

Item#	Description	Account Code	Tot Fee	Prev. Pmts	Cur. Pmts
50	S.M.I.P. RESIDENTIAL	327023-4040	1.15	.00	.00
60	BLDG PERM PLAN CHECK FEE	025015-1341	163.16	163.16	.00
100	SITE REVIEW/ELEV. CERT.	025015-1341	95.00	95.00	.00
122	ELECTRICAL FEE	025015-1341	48.00	.00	.00
123	MECHANICAL FEE	025015-1341	48.00	.00	.00
124	PLUMBING FEE	025015-1341	48.00	.00	.00
132	BUILDING PERMIT FEE	025015-1341	271.70	.00	.00
735	NPDES - BUILDING	025015-1341	27.17	.00	.00
1165	ZONING PERMITS W/O D.R.	025015-3829	71.00	.00	.00
			\$773.18	\$258.16	

Total Fees: \$773.18
Total Paid: \$258.16

Balance Due: \$515.02

When validated below, this is your receipt.
This Building Permit shall EXPIRE



COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print
Your Name:

Date
Applied:

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 1236 Hughes Av. City: Santa Rosa ZIP: 95407
 Cross Street: Burbank APN: 125-213-005 Project Phone #: _____ Project Fax #: _____
 Directions: 1236 Hughes Av. Subd. Name: _____ Unit #: _____ Lot #: _____
 Describe Project: S.F.D. Addition Living Area: 113 Contract Price: _____
 Garage: _____
 Decks: _____

OWNER NAME AND ADDRESS **APPLICANT NAME AND ADDRESS**

Name: Jorge Cruz Name: Jorge Cruz
 Mailing Address: 1236 Hughes Av. Mailing Address: _____
 City: Santa Rosa State: CA ZIP: 95407 City: Santa Rosa State: CA ZIP: 95407
 Day Ph: (707) 545-0391 Fax: () Day Ph: (707) 545-0391 Fax: ()

CONTRACTOR INFORMATION **OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)**

Company Name: _____ Name: _____
 Address: _____ Address: _____
 City: _____ State: _____ ZIP: _____ City: _____ State: _____ ZIP: _____
 Day Ph: () _____ Fax: () _____ Day Ph: () _____ Fax: () _____

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 worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
 I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:
 Carrier: _____
 Policy No.: _____
 (This section need not be completed if the permit is for one hundred dollars (\$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 worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
 Exp. Date: _____ Applicant: _____

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 3708 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's 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 Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 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).):
 I, as 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 Professions Code: The Contractor's 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 or 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 or 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 Contractor's 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 Contractor's License Law).
 I am exempt under Sec. _____, B & P.C. for this reason:
 Date: 6-2-03 Owner: _____

LICENSED CONTRACTOR'S 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.
 Lic. Class: _____ Lic. No.: _____
 Exp. Date: _____ Contractor: _____

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that does does not contain asbestos, or that no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code, I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

PERMITTEE SIGNATURE: _____
1236 Hughes Ave SR 95407
 ADDRESS CITY ZIP
 Contractor Owner Agent for Contractor Agent for Owner

Permit # BLD03-2953 Area 10
 Permit Coordinator _____

CONSTRUCTION LENDING DECLARATION

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.)
 Lenders Name: _____
 Lenders Address: _____

FOR DEPARTMENT USE

Zoning: R1 File No: _____ Acres: _____
 Existing Use/Structures: SFD, GAR
 Proposed Use/Structures: _____
 Zoning Min. Yard Requirements: Front _____ Left _____ Right _____ Back _____
 NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. Mitigation Required Address subject to change
 Approval for Permit Issuance: _____ Approval for Agency: _____
 By: [Signature] By: [Signature]
 Date: 6/2/03 Date: _____
 Conditions: _____

Sewer Connection: Available Fees Paid 8/12/03
 Approved by: [Signature] Date: _____

Road Encroachment: Fees Paid PAYED DRIVEWAY
 Approved by: [Signature] Date: 2 Time 03

Septic System **SEWER COMPLETION CERTIFICATE**
 Permit/Clearance # _____ **REQUIRED PRIOR TO OCCUPANCY.**
 Approved by: _____ Date: _____

Flood Zone: Yes No 100 Year Flood Elevation: _____
 Site Review: **EXPIRED**
 Code Enforcement Violation: Yes No
 This permit is limited to _____ days. Date: 8/19/06
 By: [Signature]

Work Authorized: ADD BATH & CLOSET to SFD
 New Addition Alteration Repair Moving Occ/Chg

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

Plans Approved Machine Space for Permit Fee
 No Plans Subject to Field Inspection
 Date: 8/11/03
 Permit Cleared for Use and By: [Signature] Date: 8/12/03
 Post FIRM Allstate Pictorial Report Available
 Pre FIRM Geotechnical report Available
 Type of Construction: VN Occupancy: 2.3 No. of Stories: 1 No. of Bedrooms: 3
 Auto Fire Sprinkling Req'd: _____
 Final Date: _____ Inspector: _____

PAYMENT REC'D
1000.00
AUG 19 2003
 PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
 COUNTY OF SONOMA

JOB ADDRESS: 1236 HUGHES AVE, ROSA
 PERMIT NUMBER: BLD03-2953
 INSPECTION AREA: 10

SCHOOL-DISTRICT CERTIFICATION OF COMPLIANCE

RETURN TO: Permit and Resource Management, County of Sonoma, 2550 Ventura Avenue, Santa Rosa, CA 95403

FROM: High School District SANTA ROSA Elementary District ROSELAND

THIS CERTIFICATION IS VOID IF NOT RETURNED TO THE BUILDING INSPECTION DEPARTMENT WITHIN 30 DAYS AFTER THIS FORM IS SIGNED AND DATED BY THE SCHOOL DISTRICTS

To be completed by applicant for building permit(s) and verified by Permit and Resource Management, County of Sonoma.

EFFECTIVE DATE: _____ (Date Plan Check Fee Was Paid) CITY RECEIPT NO. _____

PROJECT ADDRESS 1236 Hughes Ave

PROPERTY OWNER'S NAME Jorge + Angelica Cruz

If applicable: Mobilehome Park Name _____ Lot/Space No. _____

ASSESSOR'S PARCEL NO. 125-213-005

PROJECT DESCRIPTION: Include number of dwelling units. If agriculture, state specific use. Also include information regarding whether or not replacement dwelling, building used for religious purposes, private school or owned and occupied by governmental entity. SFD Addn

Building Type: Residential Commercial/Industrial Mobilehome/Manufactured Home

Square footage breakdown per residential unit: residential area* 113 #

Total No. of residential units 1 Total Square Fee of Eligible Building Area*: 113 #

I declare under penalty of perjury under the laws of the State of California on behalf of _____

and that the information furnished above is accurate and correct to the best of my knowledge. _____ Developer/Owner
_____ Applicant's Signature

The County of Sonoma (Permit and Resource Management) on 6-2 Year 2003 has verified the square footage and use information furnished by the above developer.

County of Sonoma Signature Chelton

- * Residential Buildings are building occupancies for single and multiple family dwellings, apartments, condominiums, and residential hotels where the primary purpose is to provide a residence and not a service, such as health care.
- * Commercial/Industrial Area Buildings are building occupancies other than residential. Includes those buildings where the primary purpose is to provide a service, such as health care. Also includes senior citizen housing (Civil Code 51.3), residential care facility for elderly (H&S Code 15432(d)(9)), and adult only mobilehomes (Gov. Code 65995.2(a))
- * Eligible Commercial/Industrial Area is all chargeable covered and enclosed space calculated by the building department. Chargeable Covered and Enclosed Space includes all the covered and enclosed space within the perimeter of a commercial or industrial structure but does not include any storage areas incidental to the principal use the development, garage, parking structure, unenclosed walkway, or utility or disposal area.
- * Eligible Residential Area means the Assessable Space calculated by the building department which includes all the square footage within the perimeter of a residential structure, but does not include any carport, walkway, overhang, patio, detached accessory structure, or similar area.

To be completed by school districts

SCHOOL DISTRICT CERTIFICATION

School District requirements for the above project have been satisfied pursuant to (circle one):

Ed. Code 17620FEES Mitigation Agreement Not Subject to Fee Requirement

This Certification covers only the amount of square footage identified above. Any additional square footage for the project is subject to another certification of compliance.

ELEM. SCHOOL DISTRICT recpt. no. _____ HIGH SCHOOL DISTRICT recpt. no. _____

Square footage: _____ at \$ _____ sq.ft. Square footage: 113 at \$ 0 sq.ft.

Total Fee Amount Collected: \$ _____ Total Fee Amount Collected: \$ 0

Authorized School District Official _____ signature _____ Authorized School District Official [Signature] signature

Date: _____ title _____ Date: 8/18/03 [Signature] title

With regard to mobilehomes / manufactured homes, it is understood that the validity of any certificate of occupancy or Statement of Installation Acceptance issued by the City is conditioned on the concurrent payment of fees set forth above.

Applicant is hereby noticed that anyone filing a protest on the imposition of Education Code Section 17620 fees must do so within 90 days from payment of the fee.

F O R I N T E R N A L U S E O N L Y

JOB ADDRESS: 1236 HUGHES AVE ROS

File: BLD03-2953 = BLD03-2952

Inspector: S. JOHNSON

Date: 7.24.03

The proposed construction appears to be located in:

Flood Hazard:	<input type="checkbox"/> FIRM Flood Zone (ASFH) BFE = _____ ft. NGVD. Lowest finish floor at 12 above BFE = _____ ft. NGVD. <input type="checkbox"/> Design for moving water is recommended Section _____ is _____ Ft/sec Section _____ is _____ Ft/sec <input type="checkbox"/> Area subject to flooding (not on adopted FIRM). <input type="checkbox"/> Project is on flood zone major damage list. <input type="checkbox"/> Flood Prone Urban Area defined by Ordinance #4906.	<input type="checkbox"/> Portions of property in flood zone but project site not in flood zone. <input type="checkbox"/> Building is in FIRM Floodway <input type="checkbox"/> Main building on site is Post-FIRM <input type="checkbox"/> Appears to be a "substantial improvement" (40%), therefore flood regulations apply. <input type="checkbox"/> Located inside the <i>Laguna de Santa Rosa</i> below elevation of 75 ft (Ord.#4906). <input type="checkbox"/> Sensitive drainage area, review by drainage section recommended.
Geo-technical:	<input type="checkbox"/> Area of suspected slides, slumps, earth flow, or soil creep. (a.) <input type="checkbox"/> Area of previous fill placement. (g.) <input type="checkbox"/> Area of suspected expansive soil. (c.) <input type="checkbox"/> Area without sufficient slope setback as set forth in UBC Section 1806. (b.) <input type="checkbox"/> Area subject to possible liquefaction. (e.) <input type="checkbox"/> Area of suspected soft, compressible, or organic soil with low bearing capacity. Se is Report: Required <input type="checkbox"/> Available <input type="checkbox"/>	<input type="checkbox"/> Area without recommended setback from stream (SCWA recommendations). <input type="checkbox"/> Area of high moisture content in soil. (f.) <input type="checkbox"/> Area subject to high erosion (water or wind). <input type="checkbox"/> Area of soft soil due to past deep ripping or cultivation below minimum foundation depth. (h.) <input type="checkbox"/> Area within 1000 feet of a solid waste disposal site.
Geologic:	<input type="checkbox"/> Located in the Alquist-Priolo Special Studies Zone.	<input type="checkbox"/> Geologic report required (see DMG Publication 42).
General:	<input type="checkbox"/> Building addition will affect the required light and ventilation in an existing room. <input type="checkbox"/> Existing electric meter must be replaced. <input type="checkbox"/> Existing gas meter must be replaced.	<input type="checkbox"/> Indications of existing substandard conditions that are not addressed by the proposed construction. <input type="checkbox"/> Indications of past work done without a permit. <input type="checkbox"/> Grading permit required for road, driveway, or site preparation. <input checked="" type="checkbox"/> Site is likely to be acceptable for conventional construction methods.
Wind:	Slope is <u>0-3</u> Exposure " <u>B</u> " Exposure "C" Exposure "D" N.S.C. Air Pollution Control District <input type="checkbox"/> Yes <input type="checkbox"/> No	

ADDS COMPLETE YARD ON WEST SIDE IS ASPHALT. NO WEED SCREEN ON GARAGE STRUCT. (WOOD EXISTING)

County of Sonoma
Permit and Resource Management Department
2550 Ventura Avenue, Santa Rosa, CA 95403
Construction Inspection Section

CORRECTION NOTICE

Permit # B100329530 owner _____

Job Address 1336 HUGHES

I have inspected work under the above permit and have observed the following code violations:

- BRASS SCREWS ON CLOSET
- FLANGES (2) DIGITAL GROUNDING
- CONDUCTOR (3) INCREASE SWITCH
- BOX SIZE (4) ATTIC ACCESS
- 8" FROM WALL IN CLOSET TO
- EDGE OF LIGHT FIXTURE (6) ADD
- CLIP TO TOP PLATE AT INTER-
- SECTIONAL WALL (2) STRIP DUCT
- AT JACK TO FRAME

Make corrections before proceeding with other work. When corrections have been made, call 565-1579 for reinspection.

Date 6/8/05 Inspector [Signature]
CIS-004.cdf (S.C. Repro 12/3/02) White - Job Canary - Permit Pink - Office

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=====
Project Title..... Cruz addition                               Date..05/29/03 10:09:07
Project Address..... 1236 Hughes Ave. *****
                  Santa Rosa CA 95407 *v6.01*
Documentation Author... Bill Mattinson ***** | Building Permit # |
                  SOL*DATA |
                  401-C College Avenue | Plan Check / Date |
                  Santa Rosa, CA 95401 |
                  707-545-4440 | Field Check/ Date |
Climate Zone..... 02
Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.
=====
| MICROPAS6 v6.01 File-CRUZADD Wth-CTZ02S92 Program-FORM CF-1R |
| User#-MP0817 User-SOL*DATA Run-Cruz addition |
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GENERAL INFORMATION

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Conditioned Floor Area..... 113 sf
Building Type..... Single Family Detached
Construction Type ..... Addition Alone
Building Front Orientation. Front Facing 0 deg (N)
Number of Dwelling Units... 0.11
Number of Stories..... 1
Floor Construction Type.... Raised Floor
Glazing Percentage..... 2.7 % of floor area
Average Glazing U-factor... 0.55 Btu/hr-sf-F
Average Glazing SHGC..... 0.65
Average Ceiling Height..... 8 ft
    
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BUILDING SHELL INSULATION

Component Type	Frame Type	Cavity R-value	Sheathing R-value	Total R-value	Assembly U-factor	Location/Comments
Wall	Wood	R-13	R-n/a	R-13	0.088	
Floor	Wood	R-19	R-n/a	R-19	0.037	
Roof	Wood	R-30	R-n/a	R-30	0.031	

FENESTRATION

Orientation	Area (sf)	U-Factor	SHGC	Interior Shading	Exterior Shading	Overhang/Fins
Window Back (S)	3.0	0.550	0.650	Standard	Standard	None

HVAC SYSTEMS

Equipment Type	Minimum Efficiency	Refrigerant		Duct R-value	Duct Leakage	Tested Duct	ACCA Manual D	Thermostat Type
		Charge and Airflow	Duct Location					
Furnace	0.630 AFUE	n/a	None	R-n/a	n/a		n/a	Setback
NoCooling	10.00 SEER	No	Attic	R-4.2	No		No	Setback

Project Title..... Cruz addition

Date..05/29/03 10:09:07

| MICROPAS6 v6.01 File-CRUZADD Wth-CTZ02S92 Program-FORM CF-1R |
| User#-MP0817 User-SOL*DATA Run-Cruz addition |

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.

REMARKS

Project Title..... Cruz addition

Date..05/29/03 10:09:07

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| MICROPAS6 v6.01 File-CRUZADD Wth-CT202S92 Program-FORM CF-1R |
| User#-MP0817 User-SOL*DATA Run-Cruz addition |

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COMPLIANCE STATEMENT

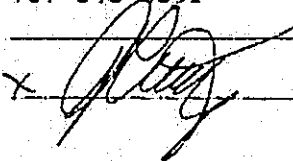
This certificate of compliance lists the building features and performance specifications needed to comply with Title-24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. 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.

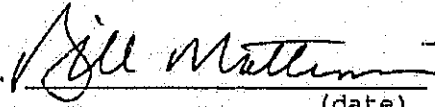
DESIGNER or OWNER

DOCUMENTATION AUTHOR

Name.... Jorge Cruz
 Company. homeowner
 Address. 1236 Hughes Ave.
 Santa Rosa CA 95407
 Phone... 707-545-0391
 License. _____

Name.... Bill Mattinson
 Company. SOL*DATA
 Address. 401-C College Avenue
 Santa Rosa, CA 95401
 Phone... 707-545-4440

Signed.. X  _____
 (date)

Signed..  _____
 (date)

ENFORCEMENT AGENCY

Name.... _____
 Title... _____
 Agency.. _____
 Phone... _____
 Signed.. _____
 (date)

Project Title..... Cruz addition Date..05/29/03 10:09:07
 Project Address..... 1236 Hughes Ave. *****
 Santa Rosa CA 95407 *v6.01*
 Documentation Author... Bill Mattinson ***** | Building Permit # |
 SOL*DATA | |
 401-C College Avenue | Plan Check / Date |
 Santa Rosa, CA 95401 | |
 707-545-4440 | Field Check/ Date |

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

| MICROPAS6 v6.01 File- Wth- Program-FORM MF-1R |
 | User#-MP0817 User-SOL*DATA Run- proposed |

Note: Lowrise 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 minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

BUILDING ENVELOPE MEASURES

	Design- er	Enforce- ment
*150(a): Minimum R-19 ceiling insulation.	X	---
150(b): Loose fill insulation manufacturer's labeled R-Value.	X	---
*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).	X	---
*150(d): Minimum R-13 raised floor insulation in framed floors.	X	---
150(l): Slab edge insulation - water absorption rate no greater than 0.3%, water vapor transmission rate no greater than 2.0 perm/inch.	---	---
118: Insulation specified or installed meets insulation quality standards. Indicate type and foam.	X	---
116-17: 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-factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification.		
3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.	X	---
150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	---	---
150(f): Special infiltration barrier installed to comply with Sec. 151 meets Commission quality standards.	---	---
150(c): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs		
1. Masonry and factory-built fireplaces have:		

Project Title..... Cruz addition

Date..05/29/03 10:09:07

MICROPAS6 v6.01 File- Program-FORM MF-1R
 User#-MP0817 User-SOL*DATA

- a. Closeable metal or glass door
- b. Outside air intake with damper and control
- c. Flue damper and control
- 2. No continuous burning gas pilots allowed. X

SPACE CONDITIONING, WATER HEATING AND PLUMBING SYSTEM MEASURES

	Design- er	Enforce- ment
110-113: HVAC equipment, water heaters, showerheads and faucets certified by the Commission.	X	
150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.	X	
150(i): Setback thermostat on all applicable heating and/or cooling systems.	X	
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. Back-up 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 system.		
5. Cooling system piping below 55 degrees insulated.		
6. Piping insulated between heating source and indirect hot water tank.	X	
*150(m): Ducts and Fans		
1. All ducts and plenums installed, sealed and insulated, to meet the requirements of the 1998 CMC sections 601, 603, and 604, and standard 6-3; ducts insulated to a minimum installed level of R-4.2 or enclosed entirely in 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. 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. Building cavities shall not be used for conveying conditioned air. Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and drawbands.		
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.	X	
114: Pool and Spa Heating Systems and Equipment		
1. System is certified with 78% thermal efficiency, on-off		

Project Title..... Cruz addition

Date..05/29/03 10:09:07

MICROPAS6 v6.01 File-	Program-FORM MF-1R
User#-MP0817 User-SOL+DATA Run-	

switch, 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.
- 3. Pool system has directional inlets and a circulation pump time switch.

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	_____

LIGHTING MEASURES

Design-	Enforce-
er	ment

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.

X	_____
---	-------

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.

X	_____
---	-------