CITY OF SACRAMENTO

New City Hall, 915 I St., 3rd Floor, Sacramento, CA 95814

Permit No: 0614192

Insp Area:

Thos Bros:

3

318C5

Site Address: 5875 WILKINSON ST SAC

Parcel No:

027-0252-033

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

<u>CONTRACTOR</u> OWNER BUILDER

PAPERLESS

127-0232-033

<u>ARCHITECT</u>

<u>OWNER</u> LEONID GRYMAYLO 7732 TENNIS CT

ANTELOPE,CA 95824

NatureofWork: NEW, 1STORYSFR; LIV.SP.=1466sf, ATTACHEDGARAGE=372sf, COV.PORCH=75sf-DESIGNREVIEW 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). **CITY OF SACRAMENTO** _Lender'sAddress_ OCT 0 2 2006 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 **NEW CITY HALL** Date _ Contractor Signature License Number 0 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). B & PC for this reason I am exempt under Sec 1012/06 lonea Date Owner Signature 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 herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes. Appliemm/Agent Signature Date 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: 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, Ishall 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. Applicant 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.



ing and Building Department

CITY OF SACRAMENTO

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

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

ing Division

0614197

ADDRESS	5875	WILKINSON	PERMIT NO. OCTATA
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BUILDING	TAT		,
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PLUMBING	CAT		
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FIRE			

TITLE 24 REPORT

Title 24 Report for:

Wilkinson St. 5875 Wilkinson St. Sacramento, CA 95824 CITY OF SACRAMENTO DOWNTOWN PERMIT DOWN CENTER

SEP 1 3 2006

RECEIVED

Project Designer:

Olenka Builders 6525 32nd Street Suite-A North Highlands, CA 95660 (916)339-1267

Report Prepared By:

Alex Martynovskiy OLENKA BUILDERS 6525 32nd Street, #A N. Hignlands, CA 95660 (916) 339-1267

Job Number:

347

Date:

9/11/2006

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2005 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC - www.energysoft.com.

EnergyPro 4.1 by EnergySoft

Job Number: 347

User Number: 5661

Certificate C	of Con	anlian	ce .	Res	iden	tia	ı			(Pa	rt 1 of 3)	CF	<u>-1R</u>
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Wilkinson St Project Title						_							
5875 Wilkinson	StSac	ramento								Buildi	ng Permit #		
Project Address OLENKA BUILD								(916) 3 Telepho	339-1267	Plan C	heck/Date		
Documentation Author								•	12	Field	Check/Date		
EnergyPro Compliance Method							_	Climate					
TDV Energy Use	<u> </u>	Standard		P	ropo se Design	ť	C	omplianc Margin	e				
(kBtu/sf-yr)		Design	-	_	16.74	-	•	1.10	_				
Space Heating		17.84 8.40			6.85			1.54					
Space Cooling		2.18			1.89			0.29					
Fans Domestic Hot Wat	er	14.27			12.66			1.60 0.00					
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Totals	<u> </u>	42.68			38.15			4.53 10 <u>.6%</u> _					
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Ratio:	10.8%	Avg.	SHGC	;	0.28		_) Stories.		Thermostat	Ve	nt
BUILDING ZONE	INFORMA	.TION	A .		Volume		# ¢		Zone Type		Type	Hgt.	Area
Zone Name			Floor A		13,19		10		Conditioned		Sethack_	2	n/a
HVAC System_				.466 							<u> </u>		
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OPAQUE SURFA	CES	lnei	lation	Act.				Condition	1		Locatio	n / Comm	ents
_	Area U-	Fac. Cav.	Cont.	Azm.		Y/	N	Status	JA IV Refe	erence	1st Floor	117 0011111	
Type Frame Wall Wood	2300	0.060 _R-13	R-7.9	270 270	90	XXX X	H	New	28-A4		1st Floor		
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Wall Wood Door None	18 (1.500. None	<u> </u>		90	Ð	_	New New	28-A4 09-A3		1st Floor		
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EnergyPro 4.1	by EnergySof	<u> </u>	User Nu	mber: 50									

EnergyPro 4.1 by EnergySoft

Certificate Of C	ompliance	<u>: Reside</u>	<u>ntial</u>			(Pa	rt 3 of	3) (CF-1R
Wilkinson St.				7		Date	9/1	1/2006	
roject Title									
IVAC SYSTEMS	Heating	Minimum Eff	Cooli Type			Minimum Eff	Condition Status	• • • • • • • • • • • • • • • • • • • •	hermostat ype
_ocation	Туре	80% AFUE		Air Condition		13.0 SEER	New		Setback
HVAC System	Central Furnace	60% AFUL							
				<u> </u>					
HVAC DISTRIBUTION			Duct			Duct C R-Value S	ondition	Duct Test	_
Location	Heating	Cooling	Local	ion				No	
HVAC System	Ducted	<u>Ducted</u>	Attic			6.0 Ne	-		
Hydronic Piping	Pipe Pipe	Insui.							
•	ength Diameter	<u></u>							
System ranio									
		-		4				Ctondbyl	Tank Insu
WATER HEATING SYST				Rated ¹	Tank	Condition	Energy	Loss	R-Value
N	Water Heate	r Distribution	# in Syst.	input (Btu/hr)	Cap. (gal)	Status	or RE 1	(%)	Ext.
System Name	Туре		1	40,000		New	0.58	n/a	n/a
Standard Gas 50 gal or Less	Small Gas	Point of Use		40,000					
1 For small gas storage (rated in For large gas storage water he For instantaneous gas water he REMARKS			d heat pu	num Outs	atore lie	Buried Ir	\$.		
COMPLIANCE STATEM This certificate of compliance lis Regulations, and the administra The undersigned recognizes th and building envelope sealing r	sts the building feature ative regulations to imp at compliance using du require installer testing	iement them. This ca ict design, duct sealing and certification and	ng, verific field verif	ation of refrig	erant ch approve	arge and TXVs	s, insulation	ornia Code o esign respona installation	of sibility. quality,
Designer or Owner (per Busin	ness & Professions Co	ide)		cumentation me: Ale	Author x Mar <u>tyr</u>	novskiv			
Name:	<u> </u>			le/Firm: OLI					
Title/Firm: Olenka Builders Address: 6525 32nd Street	Suite-A					Street, #A		<u> </u>	
North Highlands, (ls, CA 9 <u>5660</u>		<u></u>	
Telephone: (916)339-1267			Te	elephone: <u>(91</u>	<u>6) 339-1</u>	1267			
Lic. #:								a	1.1.
Alw Marden no (signature)	vskry		(Si	ghaturé)	Mai	tynovsk	My_	<i>~_</i> /	(date
Enforcement Agency Name:									
Title/Firm:									
Address:									
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Run Initiation Time: 09/11/06 12:07:57
User Number: 5661

EnergyPro 4.1 by EnergySoft

Run Code: 1158001677

Job Number: 347

Page:5 of 12

Mandatory Measures Summary: Residential (Page 2 of 2) MF-1R

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 supercede the items marked with an asterisk (*) below. 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.

DESC	RIPTION Instructions: Check or Initial applicable boxes when completed or check N/A if not applicable.	N/A	DESIGNER	ENFORCE- MENT
Space	Conditioning, Water Heating and Plumbing System Measures: (conf	inue	ed)	
	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 minumum 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, 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.			
	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 draw bands.			
	Exhaust fan systems have back draft or automatic dampers.			
	Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operating dampers.			
	6. Protection of Insulation. Insulation shall be protected from damage, including that 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: Po	ol 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" 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.	Ш	Ш	Ш
§ 115: Ga	s fired fan-type central fumaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)			
§ 118 (i): (Cool Roof material meets specified criteria			
	ng Measures		□	 1
§ 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). Ballasts for lamps 13 Watts or greater are electric and have an output frequency no less than 20 kHz.		x	
§ 150(k)1:	HIGH EFFICACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, luminaire has factory installed HID beliast.		X	
§ 150(k)2:	Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50% of the Wattage, as determined in Section 130(c), of permanently installed luminaires in kitchens may be in luminaires that are not high efficacy luminaires,		x	
§ 150(k)3:	provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires. 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).		X	
§ 150(k)4:	Permanently installed luminaires located other than in kichens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy luminaires (except closets less than 70 ft) OR are controlled by a dimmer switch OR are controlled by an occupant sensor that complies with Section f19(d) that does not turn on automatically or have an		X	
§ 150(k)5:	always on option. Luminaires that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are certified to ASTM E283 and tableted as air tight (AT) to less than 2.0 CFM at 75 Pascals.		X	
§ 1 50(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).		X	
§ 150(k)7:	Lighting for parking lots for 8 or more vehicles shall have lighting that complies with Sections 130, 132, and 147. Lighting for parking garages for 8 or more vehicles shall have lighting that complies with Section 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 occupant sensor(s) certified to comply with Section 119(d).			
EnergyPro	4.1 by EnergySoft User Number: 5661 Job Number: 347		Page	7 of 12

ROOM LOAD SUMMARY	
PROJECT NAME Wilkinson St.	DATE 9/11/2006
SYSTEM NAME HVAC System	FLOOR AREA

ZONE NAME 1st Floor	ROOM NAME 1st Floor	Mult.	CFM	M COOLING SENSIBLE 12,283			SENSIBLE 12,283	LATENT	COIL I	ITG. PEAK SENSIBLE 17,93
	ROOM NAME 1st Floor		CFM	SENSIBLE	LATENT	CFM	SENSIBLE	LATENT	CFM	SENSIBLE
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			F	AGE TOT	AL [666	12,283	370	518	17,93
				TOT	ř	666	12,283	370	518	17,93

EnergyPro By EnergySoft User Number: User Job Number: 347 Page:9 of 12

ject Title ilkinson St.						Dat Q/		2006
om Information		Design Con	ditions			<u> </u>	1 1/2	.000
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	1,400 :	of Outdoor We	ep Bulb	1 empe	ratu	re:		71
loor Dry Bulb Temperature:	78	F Outdoor Da	ily Ran	ge:		_		32
Opaque Surfaces	Orientation	Area	U-F	actor		CLTD 1		Btu/hr
R-13 Wall w/1" EPS Exterior	(W)	230.0	ĸ 🗆	0.0596	x	23.0) <u> </u>	315
Wood Door	(W)		ĸ	0.5000	x	23.0	7 F	230
R-13 Wall w/1" EPS Exterior	(N)	501.0		0.0596	x	13.0	1 ⊢	388
Wood Door	(N)	18.0		0.5000	x	13.0	1 ⊢	117
R-13 Wall w/1" EPS Exterior	(E)	213.0		0.0596	x	23.0	4 h	292
R-13 Wall w/1" EPS Exterior	(S)	502.0	•	0.0596	x	16.0	1 -	479
R-38 Roof Attic	(W)	1,759.0	-	0.0235	$\hat{\mathbf{x}}$	47.0	- 1 ⊢	1,941
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Items shown with an asterisk (*) denote conduct 1. Cooling Load Temperature Difference (CLTD)))					. –		3,761
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Fenestration Window		Area	GLF	Ar	ea	GLF	I . [Btu/hr
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	(W) (N)	Area 18.8)	GLF 15.0 15.0	Ar.	e a 1.2 32.0	GLF X 31.6 X 15.0	=	319 479
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Window Window Window	(W) (N) (E) (S)	Area 18.8 0.0 0.0 0.0 0.0 0.0 0.0 0.	GLF (15.0 (15.0 (15.0 (15.0 (15.0 (15.0 (15.0	And +	1.2 32.0 57.0 49.0	GLF X 31.6 X 15.0 X 20.1 X 20.1 X X X X X X X X X X X X X X X X X X X		319 479 1,800 983 3,581 Btu/hr
Window Window Window Window Internal Gain Occupants 4	(W) (N) (E) (S)	Area 18.8 3 0.0 3 0.0 3 0.0 3	GLF (15.0 (15.0 (15.0 (15.0 (15.0 (15.0	And +	1.2 32.0 57.0 49.0	GLF X 31.6 X 15.0 X 20.1 X 20.1 X X X X X X X X X X X X X X X X X X X		319 479 1,800 983 3,581
Window Window Window Window Internal Gain Occupants Equipment 4 x	(W) (N) (E) (S) C Occupants X Dwelling Units X	18.8) 0.0) 0.0) 0.0) 0.0) 0.0) 0.0) 0.0) 0.0) 0.0)	GLF (15.0 (15.0 (15.0 (15.0 (15.0 (15.0	And +	1.2 32.0 57.0 49.0	GLF X 31.6 X 15.0 X 20.1 X 20.1 X X X X X X X X X X X X X X X X X X X		319 479 1,800 983 3,581 Btu/hr
Window Window Window Window Internal Gain Occupants Equipment Infiltration: 1.077 ×	(W) (N) (E) (S) C Occupants X Dwelling Units X 103.44 X ELA	230 Btuh/c	GLF (15.0 (15.0 (15.0 (15.0 (15.0 (15.0	And +	1.2 32.0 57.0 49.0	GLF X 31.6 X 15.0 X 20.1 X 20.1 X X X X X X X X X X X X X X X X X X X		319 479 1,800 983 3,581 Btu/hr 920 1,600
Window Window Window Window Internal Gain Occupants Equipment Infiltration: 1.077 x Air Sensible CFN TOTAL HOURLY SENSIBLE HEA	(W) (N) (E) (S) C Occupants X Dwelling Units X 103.44 X ELA	230 Btuh/c	GLF (15.0 (15.0 (15.0 (15.0 (15.0 (15.0	And +	1.2 32.0 57.0 49.0	GLF X 31.6 X 15.0 X 20.1 X 20.1 X X X X X X X X X X X X X X X X X X X		319 479 1,800 983 3,581 Btu/hr 920 1,600
Window Window Window Window Internal Gain Occupants Equipment Infiltration: 1.077 Air Sensible CFN	(W) (N) (E) (S) C Occupants X C Dwelling Units X 1 03.44 X ELA AT GAIN FOR ROOM	230 Btuh/c	GLF (And +	1.2 32.0 57.0 49.0	GLF X 31.6 X 15.0 X 20.1 X 20.1 X X X X X X X X X X X X X X X X X X X		319 479 1,800 983 3,581 Btu/hr 920 1,600

Job Number: 347

EnergyPro 4.1 by EnergySoft

User Number: 5661

370

Page:11 of 12

ENERGY USE AND COST SUMMARY PROJECT NAME ECON-1 Wilkinson St. DATE Rate: 9/11/2006 Fuel Type:

	Energy	STANDARD			PROPOSED		Fuel Type	:	
- 1	Energy Use	Peak Demand	C4	Energy	Peak		}	MARGIN	
[<u>-</u>	(kWh)	(kW)	Cost (\$)	Use (kWh)	Demand , (kW)	Cost (\$)	Energy Use	Peak Demand	Cost
Jan	29	0		28	0		(kWh)	(kW)	(\$)
Feb	19	0		19			1	o	
Mar	14	0			0		0	0	
Apr	8	0	-15	14	0		0	0	
May	16	2		8	0		0	0	
Jun	76	3		7	2]	10		
Jul	150			47	3		29	0	
lug		3		120	3			0	
	139	3		115	3		30	0	·
ер	62	3		44	3		24	o	
Oct	5	1		2			18	o	
lov	10	0		9			2	1	
ec	26	0			0		1	0	
ear	554	3 s		24	0		1	0	
Rat	e:			437	3 s		117		

<u>rear</u>	Rate:	3	<u> </u>		437					1	0
	Rate:				-91		3 \$		· · · · · · · · · · · · · · · · · · ·	117	0 s
į		STANDARD							Fuel 1	уре:	
	Energy Use	Peak		Ene	PR	OPOSE	D			MARGIN	
	(therms)	Demand (kBtu/hr)	Cost (\$)	Us (ther	e D	Peak emand Btu/hr)		ost	Energy Use	Peak Demand	
Jan	92	47						\$)	(therms)	(kBtu/hr)	Cost (\$)
Feb	67	44			86		48			6	-1
Mar	55	38			63		45			4	_ }
Apr	38	34			51		39			4	-1
May	19			 	36		35	_		2	-1
Jun		8		-	17		8			 	-1
Jul	18	5		 	16		4				0
	18	5			16		4		-	2	1
\ug	18	5		1 , $^{}$	16		 			2	1
ер	17	5			15		4		2	2	1
Oct	20	22					 	$-\downarrow$		2	1
ov _	44	36		1	17	23	3		2		
ес	84	43	_		38	37	<u> </u>		5		
ear	488	47 \$			77	44			7		 -
					447	48	\$	T			
	J	Annual Totals	En	егду	Deman	d	Cost		41		\$
	Elec	tricity		437 kWh			Cost		Cost/sqft	Virtual Rate	

437 kWh 0.00/sqft \$ 0.00/kWh Natural Gas 447 therms 48 kBtu/hr \$ 0.00/sqft \$ 0.00/therm

The values shown here are based upon the results of an EnergyPro Compliance energy analysis that uses Title 24 profiles as specified in the Residential User Number: 5661

Job Number: 347 Page:12 of 12

Project Title							
Wilkinson St.				•		ate	
Room Information		Dooley (2		9	/11/20	<u>06</u>
Room Name	1st Floor	Time of	Conditions				
Floor Area							Jan 12 a
Indoor Dry Bulb Temperature	70 °F	Outdoor	Dry Bulb Ten	nperatu	re		30 °
Conduction		-					
Slab-On-Grade	Area		U-Value		∆T °F		Btu/hr
Slab-On-Grade	perimeter = 144		0.7300	x	40	= [
R-13 Wall w/1" EPS Exterior	perimeter = 43		0.7300	x	40		4,205
Windford VINYL	230		0.0596	x	40	_ -	1,256
Wood Door			0.3500	x	40	_	548
R-13 Wall w/1" EPS Exterior		<u></u> ∟	0.5000	x	40		280
Vindford VINYL	501		0.0596	x	40	_	400
Vood Door	32	-	0.3500	×	40	_ -	1,194
2-13 Wall w/1" EPS Exterior	18.		0.5000	x	40	=	
/indford VINYL	213. 57.		0.0596	x	40	=	508
-13 Wall w/1" EPS Exterior	502.		0.3500	x		= -	798
/indford VINYL	49,		0.0596	x	40	=	1,196
-38 Roof Attic	1.759.0		0.3500	x	40	=	686
			0.0235	×	40	=	1,652
		- X		x		=	- 1002
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		x		K		<u> </u>	
		X -		(<u> </u>	=	:	
		X	>	۲	=		
shown with an asterisk (*) denote and the		x —			=	<u> </u>	
hown with an asterisk (*) denote conduction through an in	iterior surface to another room.		X		=		
Infiltration: 1.00 x 1.077 x	1,466 x 9.0	0 x 0	465 460		e Total:		13,530
Schedule Air Sensible Fraction	Area Ceiling Heig	M ACI	.465 / 60 x	Δτ	10		4,400

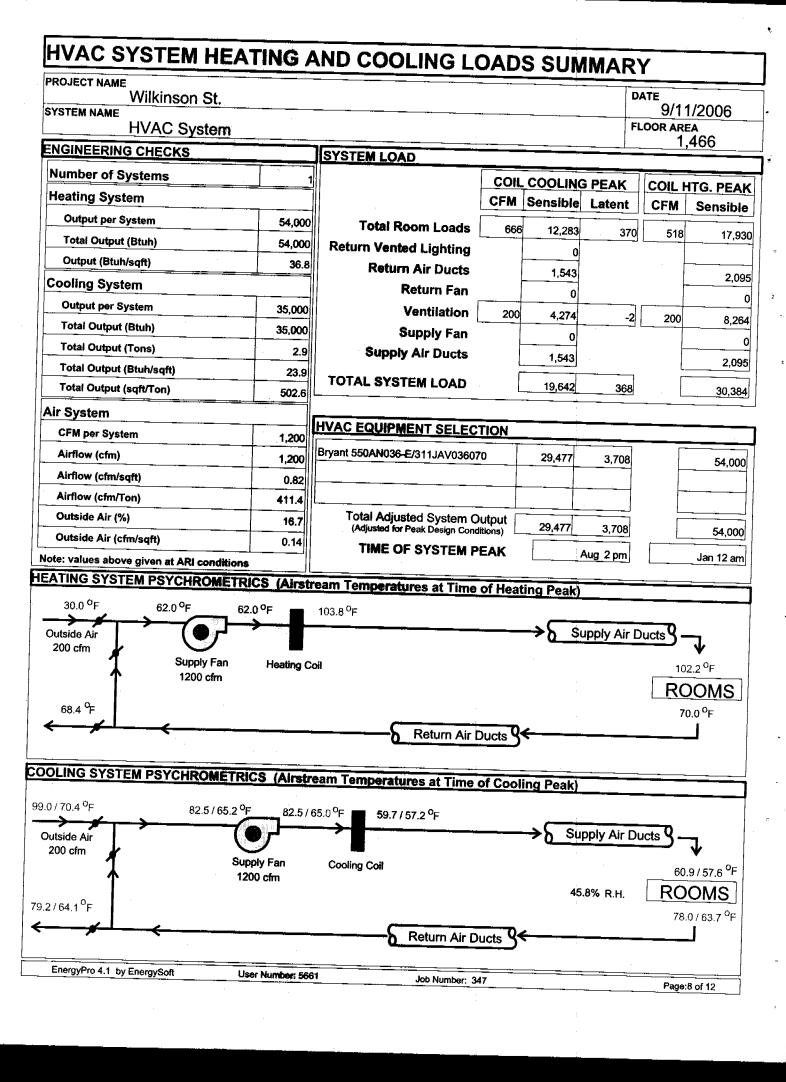
Job Number: 347

EnergyPro 4.1 by EnergySoft

User Number: 5661

17,930

Page:10 of 12



Mandatory Measures Summary: Residential

(Page 1 of 2)

MF-1R

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 supercede the items marked with an asterisk (*) below. 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.

DESCRIPTION Instructions: Check or initial applicable boxes when completed or check N/A if n applicable.			ENFORC
Building Envelope Measures	N/A	DESIGNER	MENT
\$ 150(a): Minimum R-19 in wood ceiling insulation or equivalent U-factor in metal frame ceiling.			
§ 150(b): Loose fill insulation manufacturer's labeled R-Value:			
\$ 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 or equivalent U-factor.	П		
§ 150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs.	Ц	<u></u> _	
Masonry and factory-built fireplaces have:			
 a. closable metal or glass door covering the entire opening of the firebox b. outside air intake with damper and control, flue damper and control 			
2. No continuous burning gas pilot lights allowed.			
§ 150(f): Air retarding wrap installed to comply with 151 meets requirements specified in the ACM Residential Manual.			
§ 150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.			
§ 150(I): Slab edge insulation - water absorption rate for the insulation alone without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch.			
§ 118: Insulation specified or installed meets insulation installation quality standards. Indicate type and include CF-6R Form:		X	
§ 116-17: Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls.	_		
 Doors and windows between conditioned and unconditioned spaces designed to limit air leakage. 		X	
Fenestration products (except field fabricated) have label with certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification.		\mathbf{x}	
Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.			
Space Conditioning, Water Heating and Plumbing System Measures	_		
§ 110-13: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission.		X	
§ 150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.		×	
§ 150(i): Setback thermostat on all applicable heating and/or cooling systems.			
§ 150(j): Water system pipe and tank insulation and cooling systems line insulation.			
 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. 			
Back-up tanks for solar systems, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation and indicated on the exterior of the tank showing the R-value.			
3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:			
 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. 		X	
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.			
Steam hydronic heating systems or hot water systems > 15 psi, meet requirements of Table 123-A.			
Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.			
Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space.			
7. Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation.			
ergyPro 4.1 by EnergySoft User Number: 5661 Job Number: 347	··	Page:6	of 12

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	ject Title	<u>ı Oţ.</u>								-		Da	9	/11/20	06	
F£	NESTR/	ATION	SURFA	CES			-				 -					
‡	Туре			Are		actor ¹	SHG			Cond. Stat. C	Slazing Typ	е		ocation/ omment		
1 2	Window Window	Front Left	_(W) (N)	20.0 32.0	0.350_N 0.350 Ni	FRC 0.28	NFRC NFRC		90 New 90 New	Wind	ford VINYL_			1st Floor		
3_ \$	Window Window	_Rear Right	(E)	<u>57.0</u>	0.350 N	FRC 0.28	NFRC	90	90 New	Winc	ford VINYL	-		1st Floor 1st Floor		
-		Nigrit	<u>(S)</u>	49.0	<u>U.350 NI</u>	FRC 0.28	NFRC	180	90 New	Wind	ford VINYL			st Floor		
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	icate source					2. Indicate	source ei	ther from NF	RC or Tabi	le 116B.						
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HE /pe	Bug Scre Bug Scre Bug Scre RMAL M	en en en	OR HIG Ar (s	GH MA	0.76 0.76 0.76 0.76	SIGN at	Inside R-Val.	JA IV	Refere	nce	Conditi	on L			Len.	

Run Initiation Time: 09/11/06 12:07:57 User Number: 5661

EnergyPro 4.1 by EnergySoft

Run Code: 1158001677 Job Number: 347

Page:4 of 12

TABLE OF CONTENTS

Cover Page	A CONTRACTOR SECTION	
rable of Contents	The Same State of the Same Sta	2
Form CF-1R Certificate of Compliance	The second way of the second s	
Form MF-1R Mandatory Measures Summary		3
HVAC System Heating and Cooling Loads Summary		6
Room Load Summary		8
Room Heating Peak Loads		9
		10
Room Cooling Peak Loads		11
Form ECON-1 Energy Use and Cost Summary		12

EnergyPro 4.1 by EnergySoft

Job Number: 347

User Number: 5661