

CITY OF SACRAMENTO

Permit No: 9804084

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 2404 25TH ST SAC

Sub-Type: RES

Parcel No: 0100231010

Housing (Y/N): N

CONTRACTOR

COMFORT MASTER
1517 19TH ST
SACRAMENTO, CA

95814

OWNER

PATTERSON WESLEY S
2404 25TH ST
SACRAMENTO CA

95818

ARCHITECT

Nature of Work: (N)ROOF TOP GAS HTG/ELECT. A/C .GAS TEST REQUIRED.

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 C-10 License Number 306297 Date 14 MAR 98 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

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 17 JUN 98 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 STATE FUND Policy Number 433-970000089

(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 these provisions.

Date 14 MAR 98 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.



HOI WONG & ASSOCIATES
 Consulting Structural Engineering
 2015 Q Street
 Sacramento, California 95814
 (916) 447-8585 FAX (916) 447-8586

JOB 2104-25th Street
 SHEET NO. 1 OF 1
 CALCULATED BY HWA DATE 6/1/98
 CHECKED BY _____ DATE _____
 SCALE 9/320

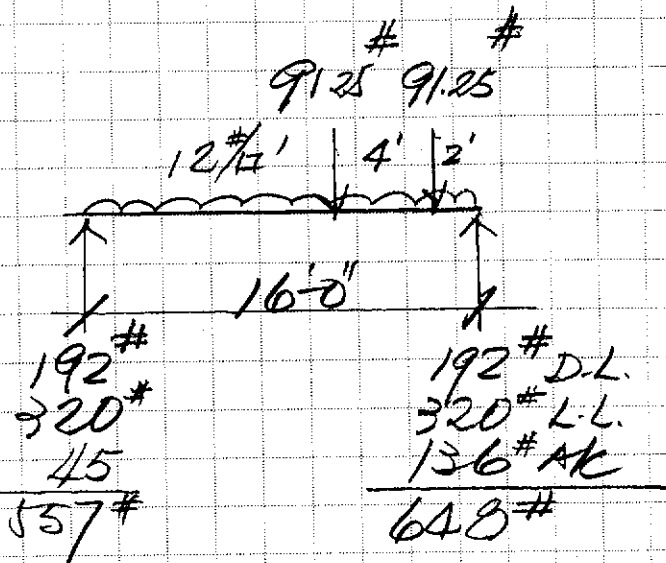
Situation: Add AK on existing patio cover roof.

Wt. of unit = 315 # + 50 # connect = 365 #

$\frac{365 \#}{(4) \text{ legs}} =$



HWA

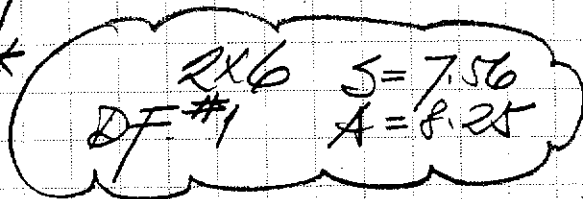


Max Moment @ $\frac{557}{(40+24)} = 8.70'$

$M = 557 \times 8.70' - \frac{64 \times 8.70^2}{2} = 4857 - 2433 = 2423 \#'$

$S_{req} = \frac{(2) 2423 \times 12''}{(5) 1250 \times 1.25} = \frac{18.61}{7.44} \text{ in}^3 *$

$V = 648 \#$



$A_{min} = \frac{648 \times 1.5}{95 \times 1.25} = 8.19 \text{ in}^2 < 8.25 \text{ in}^2$

Since deflection is not demanded. OK

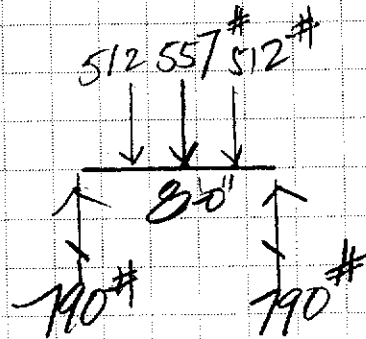
* Add tot (2) 2x6 D.F. #1 and nailed with 16 # @ 12" o.c. staggered to existing 2x6. One end supported by ledgers, joint hanger other end on existing 4x6 header.



$$\frac{648 \# \times (2)}{\left(\frac{96''}{32''}\right) + 1} = \frac{1296 \#}{4} = 324 \#/\text{bolt} \approx 300 \#/\text{bolt allowed O.K.}$$

* Check if $\frac{1}{2} \phi$ bolts @
 $\frac{1}{2} \phi$ AB @ 32" in 2x ledger \perp to grain (or closer) O.K.

Front



$$M_{max} = 780 \times 4 - 5/2 \times 2' = 2096 \#'$$

$$S_{Min} = \frac{2096 \times 12}{1250 \times 1.25} = 16.10$$

(E) D.F. #2 4x6 S=17.65 O.K.
 (E) A=19.25 ✓

$$A_{Min} = \frac{790 \times 1.5}{95 \times 1.25} = 9.98 \text{ in}^2$$

(E) 4x6 D.F. #2 (at least)
 O.K.

Anchor connection to A/C unit.

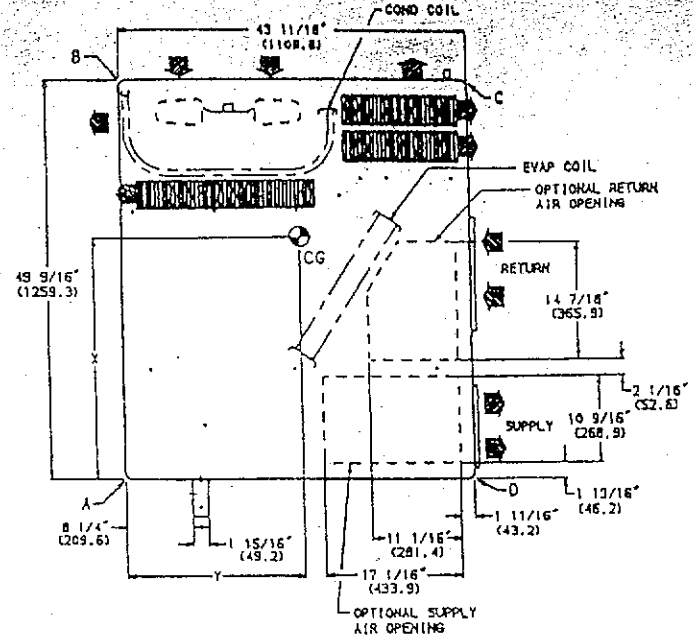
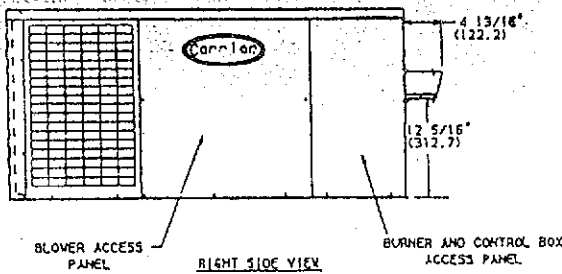
$$\frac{0.3 \times \frac{3}{4} \times 365 \#}{4 \text{ sides}} = 20 \#/\text{side}$$

use 16# or Wood screw
 connect 4 corners to
 roof structure O.K.

Base unit dimensions



48SS018-042 WITHOUT BASE RAIL



REQ'D CLEARANCES FOR SERVICING, in. (mm)

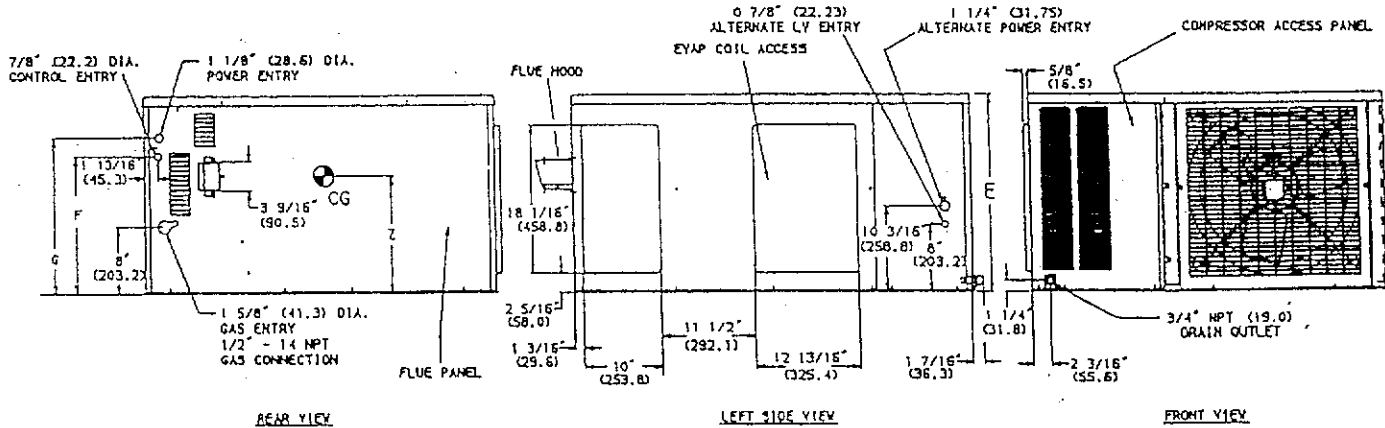
Duct panel	0
Unit top	36 (914)
Side opposite ducts	36 (914)
Compressor access	36 (914)
(Except for NEC requirements)	

REQ'D CLEARANCES TO COMBUSTIBLE MATL, in. (mm)

Maximum extension of overhangs	48 (1219)
Unit top	14 (356)
Duct side of unit	0
Side opposite ducts	9 (229)
Bottom of unit	0
Flue panel	30 (762)

NEC REQ'D CLEARANCES, in. (mm)

Between units, control box side	42 (1067)
Unit and ungrounded surfaces, control box side	36 (914)
Unit and block or concrete walls and other grounded surfaces, control box side	42 (1067)



UNIT	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)				UNIT HEIGHT (In./mm)
		lb	kg	A	B	C	D	E
48SS180040	208/230-1-60	272	123	81/37	62/28	76/35	53/24	24.1/613
48SS024040	208/230-1-60	303	138	97/44	49/20	123/56	40/18	24.1/613
48SS024060	208/230-1-60	315	143	100/45	46/21	126/57	43/20	24.1/613
48SS030040	208/230-1-60, 208/230-3-60	320	145	100/45	47/21	126/57	47/21	24.1/613
48SS030060/080	208/230-1-60, 208/230-3-60	324	147	94/43	63/29	115/52	52/24	24.1/613
48SS036060/080	208/230-1-60, 208/230-3-60, 460-3-60	336	153	86/39	76/35	111/50	63/29	24.1/613
48SS036100/120	208/230-1-60, 208/230-3-60, 460-3-60	348	158	89/40	79/36	114/52	66/30	24.1/613
48SS042060/080	208/230-1-60, 208/230-3-60, 460-3-60	375	170	95/43	86/39	119/54	75/34	28.1/714
48SS042100/120	208/230-1-60, 208/230-3-60, 460-3-60	387	176	98/45	89/40	122/55	78/35	28.1/714

UNIT	F In./mm	G In./mm	CENTER OF GRAVITY In./mm		
			X	Y	Z
48SS018040	16 1/2/420.7	18 1/4/461.0	25.07/637	20.59/523	10.85/276
48SS024040			27.07/688	23.35/593	
48SS024060			26.98/685	23.27/591	
48SS030040			26.71/678	23.46/596	
48SS030060/080			27.15/689	22.36/568	
48SS036060/080			27.50/698	22.48/571	
48SS036100/120			27.40/696	22.44/570	
48SS042060/080	20 1/4/522.3	22 1/4/568.6	27.01/686	22.44/570	12.7/321
48SS042100/120			26.94/684	22.44/570	

LEGEND
 CG -- Center of Gravity
 COND -- Condenser
 LV -- Low Voltage
 MAT'L -- Material
 NEC -- National Electrical Code
 REQ'D -- Required

NOTE: Clearances must be maintained to prevent recirculation of air from outdoor-fan discharge.