

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0311654

Insp Area: 2

Thos Bros: 337 A2

Site Address: 14 MORNINGSUN CT SAC

Sub-Type: RES

Parcel No: 031-0520-004

Housing (Y/N): N

CONTRACTOR

VALLEY CONSTRUCTION
PO BOX 1164
FAIR OAKS, CA 95628

OWNER

WONG LAU C/WAI
14 MORNINGSUN CT
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: REROOF T/O RESHT TWO STRY 25 SQ INSTALL LT WT TILE

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 C39 License Number 674523 Date 8/07/03 Contractor Signature George Vary

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: **PAID CITY OF SACRAMENTO**
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 8/07/03 Applicant/Agent Signature George Vary

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 229-0022752 Exp Date 01/01/2004

(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 8/07/03 Applicant Signature George Vary

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.

Pacific Consulting Engineers

2150 Bell Ave., Suite 145 • Sacramento, CA 95838 • (916) 564-6028 • Fax: (916) 564-6028

ISSUED
City of Sacramento

August 6, 2003

AUG 07 2003

Valley Construction

WORK PERMIT
CENTER

RE: Roof framing inspection for placement of standard weight tile on the existing residence at 14 Morning Sun Court, Sacramento, CA.
This Inspection and report is Our Job#03-1057.

As requested, on July 29, 2003, I performed a visual inspection of the existing roof framing at the aforementioned residence. The purpose of the inspection was to determine if the existing roof framing was structurally acceptable for the placement of a Standard weight tile (9.3 psf maximum installed weight) to replace the existing wood shake.

The existing residence is a 2 story dwelling with the standard living areas and an attached garage.

The existing roof framing was in good condition and consisted of Wood shake over felt over 1x skip sheathing over pre-fabricated trusses spaced at 24" c.c.. The existing top chords on the trusses were 2x4 #2 DF. The maximum span of the truss top chords was 7'-3".

Attachment 1 is a sketch of the roof plan and shows the approximate dimensions of the exterior walls of the house. Attachment 2 contains the calculations regarding the dead load to the top chord of the trusses and the maximum allowable span of the existing 2x4 top chords.

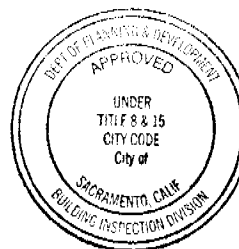
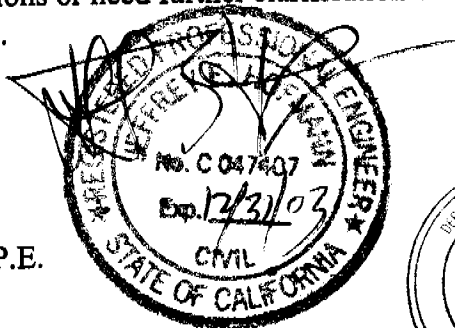
It is my understanding that during the re-roof process, the existing shake and felt will be removed, then a layer of 7/16" or 15/32" APA rated, 24/16, sheathing will be placed over the 1x skip sheathing, then 30# felt will be placed and then the standard weight tile (9.3 psf maximum installed weight) will be placed per the manufactures instructions.

Based on my inspection and the calculations attached, it is my professional opinion that removing the wood shake and placing a standard weight tile (9.3 psf maximum installed weight), as described above, is structurally acceptable on this residence.

If you have any questions or need further clarification on these matters please feel free to contact me at (916) 564-6028.

Sincerely,

Jeffrey E. Hofmann, P.E.



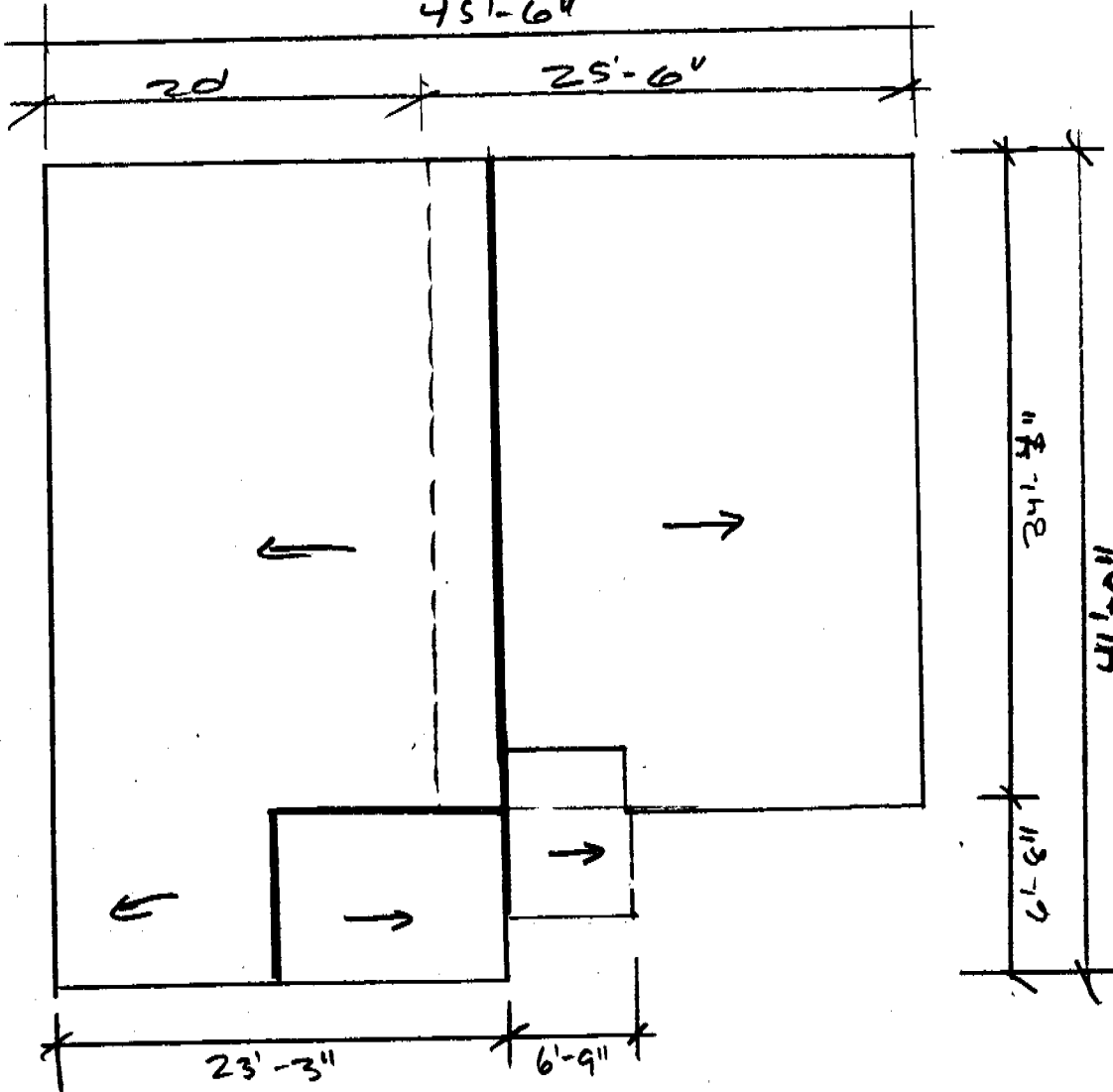
This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.

The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

45'-6"

20'

25'-6"



SKETCH OF ROOF PLAN

SCALE 1" = 10'

EXISTING ROOF: 6000 SHAKE over 1x SKIP over TRUSSES @ 24" cc

New ROOF: STD WT TILE over 7/16" SHTA over 1x SKIP over TRUSSES @ 24" cc

JEH

8/6/03

VALLEY
#14 Morning Sun Ct

03-1057

ATTACH 2/2

DETERMINE NEW DEAD LOAD TO TRUSS TOP CHORDS13.0 PSF = TOTAL DEAD LOAD

9.3 PSF = LIGHT WT TILE,

0.3 PSF = 30 # FELT

1.3 PSF = 7/16" SHTG

1.25 PSF = (E) 1x SKIP SHTG OR 3/8" SHTG

0.65 PSF = 2x4 (TOP CHORD) @ 24" CC

0.2 PSF = MISC

∴ WT OF NEW ROOF CONFIGURATION IS SLIGHTLY HIGHER THAN THE MOST LIKELY DESIGN WT.

CHECK MAX SPAN OF (E) 2x4 TRUSS TOP CHORD

NOTE: HOUSE BUILT PRIOR TO 1994 UBC THUS OLDER WOOD ALLOWABLE STRESSES APPLICABLE.

$$\#2DF \rightarrow F_v = 95 \text{ PSI} \quad f_b = 1450 \text{ PSI (RCP)} \quad E = 1.7 \times 10^6 \text{ PSI}$$

$$2 \times 4 \rightarrow A = 5.25 \text{ IN}^2 \quad S_x = 3.06 \text{ IN}^3 \quad I = 5.36 \text{ IN}^4$$

ACTUAL MAX SPAN OF TOP CHORD = 7'-3"

$$W_T = 2'(16 + 13 \text{ PSP}) = 58 \text{ PLF}$$

$$\text{SHEAR} \quad V_{ALL} = \frac{5.25 \text{ IN}^2 (95) (1.25)}{1.5} = 416 \#$$

$$L_{MAX} = \frac{2(416)}{58} = 14'-4" = L_{MAX} \text{ (SHEAR)}$$

$$\text{BENDING} \quad M_{ALL} = \frac{3.06 \text{ IN}^3 (1450 \text{ PSI}) (1.25)}{12} = 462 \text{ Lb-ft}$$

$$L_{MAX} = \sqrt{\frac{8(462)}{58}} = 8'-0" = L_{MAX} \text{ (BEND)}$$

$$\text{DEFLECTION: } \Delta_{ALL T} = \frac{L}{180}$$

$$\Delta_{ALL C} = \frac{L}{240} \quad (\text{NO CEILING ATTACHMENT})$$

(TOTAL LOAD CONTROL)

$$\Delta_{ALL} = \frac{L(12)}{180} = \frac{5(58)(L)^4 (1728)}{384 (1.7 \times 10^6) (5.36)}$$

$$L_{MAX} = \sqrt[3]{\frac{12(384) (1.7 \times 10^6) (5.36)}{180(5)(58)(1728)}} = 7.75'$$

∴ ALLOWABLE MAX SPAN OF 7'-9" EXCEEDS THE ACTUAL SPAN OF 7'-0" - ∴ (E) TRUSSES ARE OK