

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0006695

Insp Area: 2

Site Address: 618 LELANDHAVEN WY SAC

Parcel No: 030-0403-002

Sub-Type: RES

Housing (Y/N): N

CONTRACTOR

SCHARF CONSTRUCTION
7018 ANICE ST
O'VALE CA

OWNER

VU TAM MINH
618 LELANDHAVEN WY
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: t.o. resheet. apply duralight 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 684956 Date June 15, 00 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 June 15, 00 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 1558557-99 Exp Date 06/30/2000

____ (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 June 15, 00 Applicant Signature [Signature]

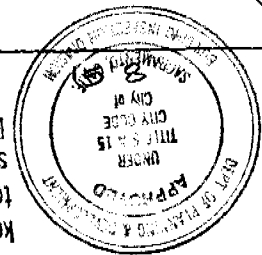
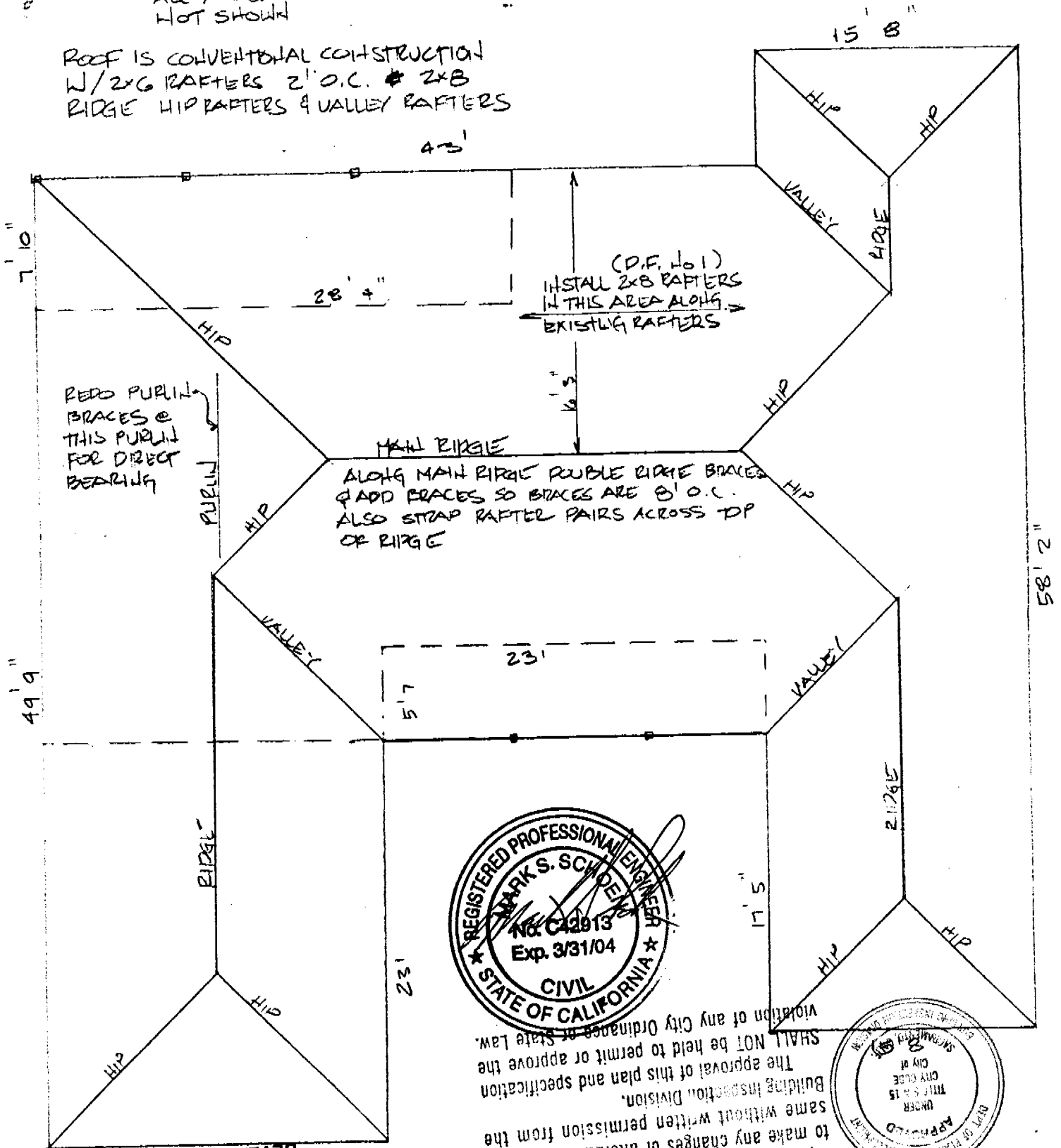
WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

NOTE: 32" OVERHANGS ALL AROUND NOT SHOWN

--- DEPTS EXTERIOR BEARING WALLS OR GARAGE FIRE WALL

ROOF IS CONVENTIONAL CONSTRUCTION W/ 2x6 RAFTERS 2' O.C. # 2x8 RIDGE HIP RAFTERS & VALLEY RAFTERS



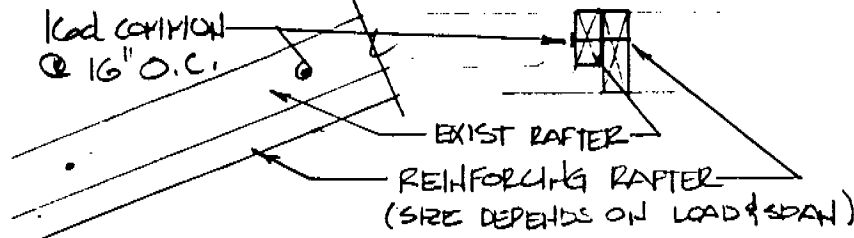
This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

CITY OF SACRAMENTO DEVELOPMENT SERVICES DIV

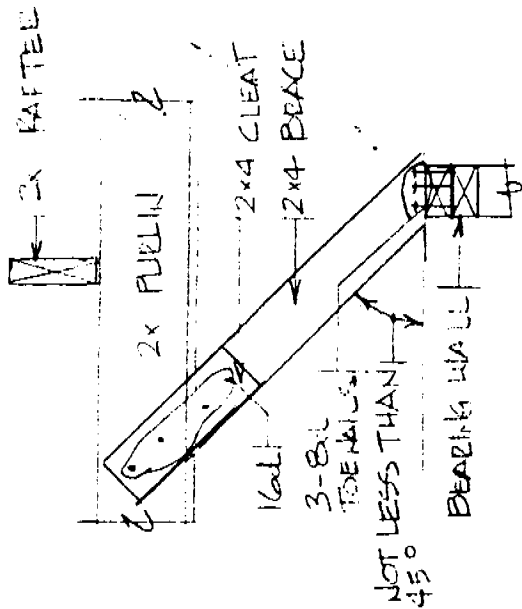
ISSUED JUN 16 2000

ROOF PLAN @ 618 LELAND HAVEN HWY SACRAMENTO, CA 95831

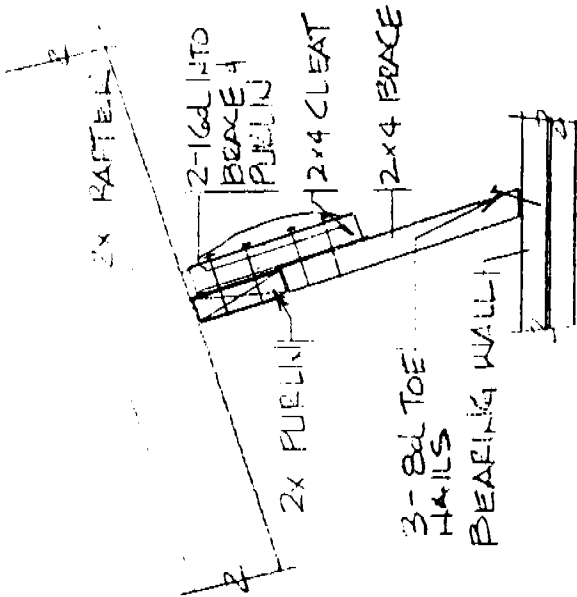
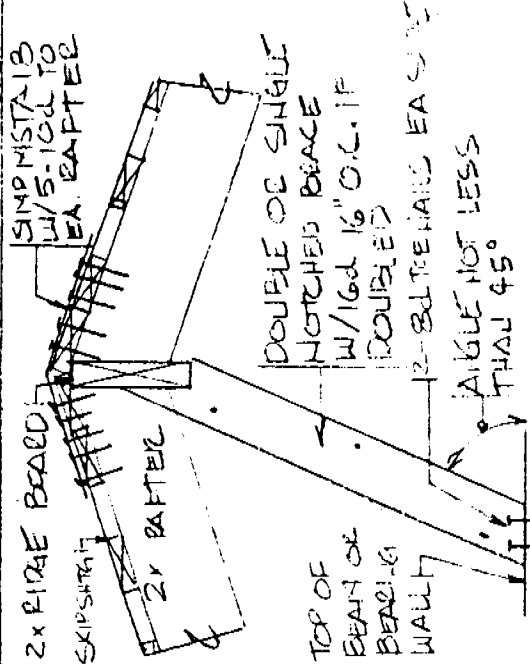
Matt P. 6/16/00



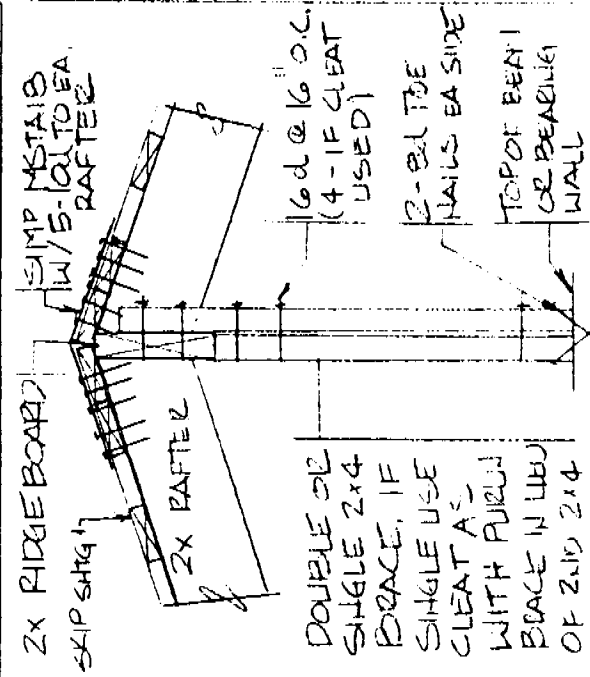
RAFTER REINFORCING



CLEATED PURLIN BRACE (SIDE VIEW)



CLEATED PURLIN BRACE (END VIEW)



NOTE: BRACE MAY BEAN IN LINE W/ RIDGE BUT @ ANGLE NOT FLATTER THAN 45°

RIDGE BRACE W/ BEARING WALL NOTCHED RIDGE BRACE W/ BEARING WALL DISPLACED TO SIDE OF RIDGE DIRECTLY UNDER RIDGE

SCHOEN ENGINEERING
9524 BEDINGTON WAY
SACRAMENTO, CA 95827
(916) 369 6866
LIC.# C042913



June 11, 2000

David Scharf
Scharf Construction
7018 Anise Street
Carmichael, CA 95662

SUBJECT: Roof structural inspection at 618 Leland Haven Way, Sacramento, CA 95831

Dear David:

On June 11th 2000 I inspected the roof structure of the residence at the above mentioned address. The roof was made up of 2x6 Douglas fir No. 2 rafters @ 2' o.c. with a max span of 9'-6" in the garage, and 11' in the attic areas of the house. There was a back porch area that had a 4x10 beam with a max. Max span of 9'. The garage door header was a 4x12 spanning 16'-3".

The following modifications need to be done prior to reroofing:

- * In the main wing of the house the existing ridge braces should be doubled. Also, additional braces should be installed where necessary to reduce the brace spacing to no more than 8' o.c.(see sketch for purlin details and plan for location).
- * Along the main ridge of the house all opposing pairs of rafters should be tied across the top of the ridge with Simpson MST18 steel strap ties, with 5-10d common nails into each rafter. The ties can be installed on top of the existing skip sheathing or on top of the new plywood sheathing(see attached detail).
- * In the back slope of the main wing of the house over the living room area the existing purlin braces are too long to be effective causing the rafters to be overspan. In this area install new 2x8 rafters and attach them to the existing 2x6 rafters with 16d common nails @ 16" o.c.. The new rafters should extend from the exterior wall plate to the ridge(see sketch for purlin details and plan for location).
- * At the North hip of the main wing of the house two of the purlin braces are framed so as to run by the purlin and then rely on nailing and a 2x4 block nailed to the brace underneath to support the purlin. These are not adequate to support the proposed roof loads and should be redone. These braces should either be replaced by braces providing direct bearing for the supported member or modified to provide direct bearing(see sketch for bracing details and plan for location).

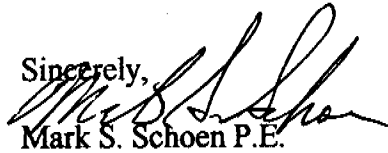
It is my finding that this structure is adequate for the following : 1/2" or 7/16" OSB or plywood over the existing skip sheathing; 30 lb. Tarred felt; 1x2 batts; Lightweight concrete tile weighing 6 lbs./sq.ft. or less.

NOTE: it is possible when reroofing that the increased load to structural elements also supporting wall, ceiling and floor finishes could cause some minor cosmetic cracking of these finishes. This is typical of wood framed structures and does not of itself indicate structural inadequacy of these members.

This report deals with the structural adequacy of roof supporting members that were readily observable. It does not address any structure that was covered by wall finishes, buried in the ground or was otherwise not observable. Any such structures were assumed to conform to standard construction specifications in the Uniform Building Code. Also, it does not address any existing deflection or warping of roof surfaces, nor is it guaranteed that any structural modifications that may be listed in this report will remove such deflections or warping. The repair of such deflections or warping to improve architectural appearance is at the option of the building owner and the roofing contractor.

I would like to thank you for allowing me to provide my services in this matter. Please let me know if I may be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark S. Schoen". The signature is fluid and cursive, written over the printed name.

Mark S. Schoen P.E.

MSS:mss
S-ENG99DSRF002.001



2x8 Douglas fir No. 1 rafter:

$E_w := 1700000$ $F_b := 1000$ $C_d := 1.25$ $C_f := 1.2$

$Cr := 1.15$ $F_{bp} := F_b \cdot C_d \cdot C_f \cdot Cr$ $F_{bp} = 1725$

$b := 1.5$ $d := 7.25$ $I_{x2x8} := b \cdot \frac{d^3}{12}$ $S_{x2x8} := b \cdot \frac{d^2}{6}$ $Stiff_{2x8} := I_{x2x8} \cdot E_w$

Superimposed dead and live loads:

Tile dead load: $DL_t := 5.8$ Live load: $LL := 16$

Rafter spacing: $sp := 2$ Rafter dead load: $R_{dl} := \frac{2.84}{sp}$

Skip shtg. dead load: $sk_{shgt} := 1$ Plywood felt & batts dead load: $ply := 2$

Ceiling dead load: $clg := 0$ misl. dead load: $msl := .0$

Structure roof dead load: $DL_{ext} := R_{dl} + sk_{shgt} + ply + clg + msl$

Check maximum span based on deflection limit of L/240 for rafters w/ceiling

L/180 for rafters w/o ceiling:

(Note: The formula used to calculate allowable span for deflections is based on a two span continuous beam where rafters are continuous over a midspan purlin with live load on one span only and dead load on both spans otherwise it is based on a simple span condition)

Load: $wd := sp \cdot \frac{1}{12} \cdot ((DL_{ext} + DL_t) + LL)$ $ws := sp \cdot \frac{1}{12} \cdot ((DL_{ext} + DL_t) + LL)$

$L_{maxd} := \left(\frac{77 \cdot Stiff_{2x8}}{1 \cdot 180 \cdot wd} \right)^{\frac{1}{3}} \cdot \frac{1}{12}$ $L_{maxd} = 16.616 > 16.25$ therefore O.K.

Check for maximum span based on stresses:

$L_{maxs} := \sqrt{F_{bp} \cdot 8 \cdot \frac{S_{x2x8}}{ws}} \cdot \frac{1}{12}$ $L_{maxs} = 16.976 > 16.25$ therefore O.K.