

CITY OF SACRAMENTO

Permit No: 0314730

1231 I Street, Sacramento, CA 95814

Insp Area: 4  
Thos Bros: 257 G7

Site Address: 166 COPPER LEAF WY SAC  
Parcel No: 226-0323-022

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

CONTRACTOR

OWNER

ARCHITECT

ALFONSO RODRIGUEA  
166 COPPER LEAF WY  
SACRAMENTO CA 95838

Nature of Work: TEAR OFF & RESHEET ROOF APPLY LITE WEIGHT 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 \_\_\_\_\_ License Number \_\_\_\_\_ Date \_\_\_\_\_ Contractor 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 9/25/03 Alfonso Rodriguez Owner Signature

PAID  
CITY OF SACRAMENTO

SEP 25 2003

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 9/25/03 Alfonso Rodriguez Applicant/Agent 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

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, 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 9/25/03 Alfonso Rodriguez Applicant Signature

WARNING: FAILURE TO SECURE WORKERS 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.

# ROOFING QUESTIONNAIRE

Applicant's name: ALFONSO RODRIGUEZ Phone: 916-834-2914

Project Address: 1166 Copper Leaf Way

Please check the appropriate boxes. Only check a box if it accurately and completely describes your proposed work, otherwise leave boxes blank.

## 1. ROOFING TYPE

- a.  The existing roofing material is composition shingle, wood shake or shingle, tile or metal. The new roofing material shall be:

Existing    Proposed

- |                                     |                                     |  |
|-------------------------------------|-------------------------------------|--|
| <input type="checkbox"/>            | <input type="checkbox"/>            | 25 year laminated dimensional composition              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | wood shake or shingle                                  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | tile   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | metal that simulates one of the above listed materials |

- b.  The existing roofing material is built up, foam or membrane with a roof pitch of 2:12 or less. The new roofing material shall be:

Existing    Proposed

- |                          |                          |          |
|--------------------------|--------------------------|----------|
| <input type="checkbox"/> | <input type="checkbox"/> | Built up |
| <input type="checkbox"/> | <input type="checkbox"/> | Foam     |
| <input type="checkbox"/> | <input type="checkbox"/> | Membrane |

## 2. GUTTERS

- a.  The existing gutters are fascia gutters.
- There is no change proposed to existing gutters.
  - New fascia gutters shall be provided.
  - Gutters shall be repaired and/or replaced to match existing.
- b.  The existing gutters are Ogee gutters.
- There is no change proposed to existing gutters.
  - New Ogee gutters shall be provided.
  - Gutters shall be repaired and/or replaced to match existing.
- c.  There are no existing gutters.
- No new gutters are proposed.
  - New Ogee gutters shall be provided.

## 3. RAFTER TAILS

- a.  There are no exposed rafter tails.
- b.  There are exposed rafter tails.
- There is no change or cutting proposed to existing rafter tails.
  - Rafter tails shall be repaired and replaced to match existing.

By signing below, the applicant certifies that this form accurately describes the proposed work.

Applicant's signature: Alfonso Rodriguez Date: 9/25/03

For City Staff use only: \_\_\_\_\_ Counter Staff: Bonnie Surgeon

- In a DR District Meets DR criteria?  Yes     No (route to DR staff)
- In a P area or listed (route to P staff)
- Not in DR/P area

EXPANDED NORTH AREA

# Pacific Consulting Engineers

2150 Bell Ave., Suite 145 • Sacramento, CA 95838 • (916) 564-6028 • Fax: (916) 564-6029

September 24, 2003

Alfonso Ramirez  
166 Copper Leaf Way  
Sacramento, CA

ISSUED  
City of Sacramento

SEP 24 2003

NORTH PERMIT  
CENTER

RE: Roof framing inspection for placement of light weight tile on the existing residence at 166 Copper Leaf Way, Sacramento, CA.  
This Inspection and report is Our Job#03-1308.

As requested, on September 24, 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 light weight tile (6.0 psf maximum installed weight) to replace the existing wood shake.

The existing residence is a 1 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'-0".

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.

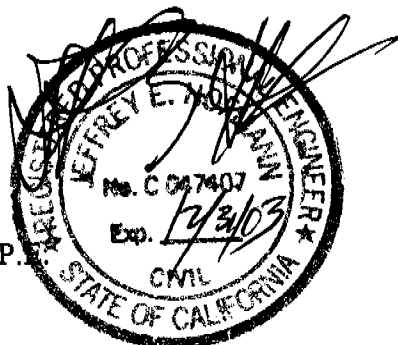
It is my understanding that during the re-roof process, the existing shake and felt will be removed, then a layer of 7/16" or 15/32" APA rated, 24/16, sheathing will be placed over the 1x skip sheathing, then 30# felt will be placed and then the light weight tile (6.0 psf maximum installed weight) will 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 light weight tile (6.0 psf maximum installed weight), as described above, is structurally acceptable on this residence.

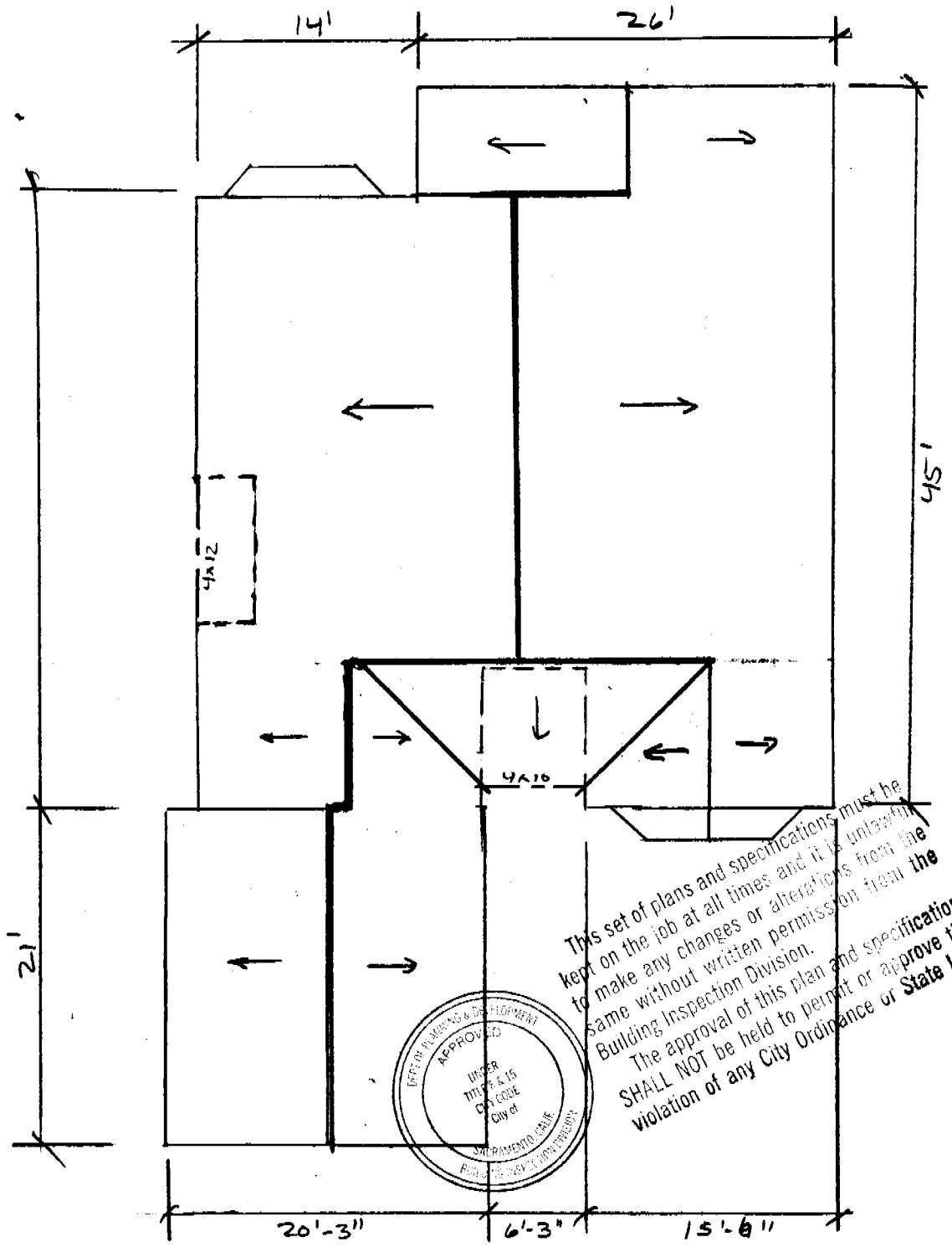
If you have any questions or need further clarification on these matters please feel free to contact me at (916) 564-6028.

Sincerely,

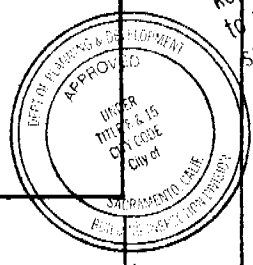
Jeffrey E. Hofmann, P.



STAEOTLER®  
No. 937 811E  
Engineer's Computation Pad



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.



SKETCH OF ROOF PLAN (~SCALE 1"=10').  
166 Copper LEAF WAY, SAC.

EXISTING ROOF: WOOD SHAKE OVER 1x SKIP SHITL over TRUSSES @ 24" c.c.  
NEW ROOF: LT WT TILE over 7/16" SHITL over 1x SKIP SHITL over TRUSSES @ 24" c.c.

PACIFIC CONSULTING ENGINEERS  
2109 BELL AVE., SUITE 146  
SACRAMENTO, CA 95833

JETH

9/24/03

REEROOF @

166 Copper LEAF,

03-1308

ATTACH 2/2

DETERMINE NEW DEAD LOAD TO TRUSS TOP CHORDS

10.0 PSF = TOTAL DEAD LOAD

6.0 PSF = LIGHT WT TILE, (6 PSF INSTALLED WT)

0.3 PSF = 30# FELT

1.3 PSF = 7/16" SHTG - New

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

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

0.5 PSF = MISC

∴ WT OF NEW ROOF CONFIGURATION IS W/IN NORMAL DESIGN WEIGHT FOR ROOF - EXISTING FRAMING IS ACCEPTABLE

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

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

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

2x4 →  $A = 5.25 \text{ IN}^2$        $S_x = 3.06 \text{ IN}^3$        $I = 5.36 \text{ IN}^4$

ACTUAL MAX SPAN OF TOP CHORD = 7'-0"

$W_R = 2'(16+10 \text{ PSP}) = 52 \text{ PLF}$

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

$l_{MAX} = \frac{2(416)}{2'(16+10)} = 16' = l_{MAX} \text{ (SHEAR)}$

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

$l_{MAX} = \sqrt{\frac{8(462)}{52}} = 8'-5" = l_{MAX} \text{ (BENDING)}$

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

$\Delta_{ALL L} = \frac{L}{240}$  (NO CEILING ATTACHED)

(TOTAL LOAD CONTROLS)

$\Delta_{ALL} = \frac{L(12)}{180} = \frac{5(52)(L)^4(1728)}{384(1.7 \times 10^6)(536)}$

$l_{MAX} = \sqrt[3]{\frac{12(384)(1.7 \times 10^6)(536)}{180(5)(52)(1728)}} = 9.03' = l_{MAX} \text{ (DEF)}$

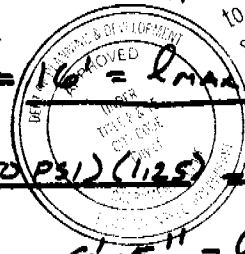
∴ ALLOWABLE MAX SPAN OF 8' EXCEEDS MAXIMUM ACTUAL SPAN OF 7'-0" (FORMERS)

No. 937 811E

Engineer's Computation Pad

STAEDTLER

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2150 BELL AVE., SUITE 145  
SACRAMENTO, CA 95833