

CITY OF SACRAMENTO

Permit No: 9812132

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 6176 FENNWOOD CT SAC

Sub-Type: RES

Parcel No: 0290352003

Housing (Y/N): N

CONTRACTOR

ORTIZ ROOFING
7340 PRITARD RD
SACRAMENTO CA

OWNER

YEE EDMUND/SANDRA NISHIM
6176 FENNWOOD CT
SACRAMENTO CA

ARCHITECT

95831

Nature of Work: T/O, UPGRADE RAFTERS PER ENGINEERING, RESHEET & REROOF 20 SQS 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 _____ License Number 277017 Date 12-9-98 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 [Signature]

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant and the applicant that all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any public 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 above mentioned property for inspection purposes.

Date 12-9-98 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.

X 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 LEGION INSURANCE CO Policy Number WC-1-1-0146T Exp Date 06/10/1999

(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 12-9-98 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.

Yee

4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960

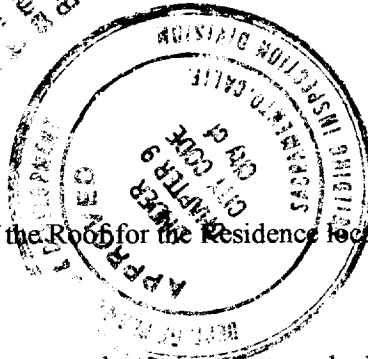
November 25, 1998

Ortiz Roofing
PO Box 293748
Sacramento, CA 95829-3748
TEL: 916.383.4390
FAX: 916.383.4393

Attn.: Mr. Jerry Ortiz,

re: Job 98301: YEE

Subject: Structural Investigation Report of the Roof for the Residence located at 6176 Fenwood Court, Sacramento, CA 95831.



As requested by Mr. Jerry Ortiz, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site November 24, 1998. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report is based on the 1994 Uniform Building Code.

The following is based on visual observations with no subsurface investigation being made.

ISSUED

DESCRIPTION:

Type of Facility:	Residence.
Year Built:	Estimated 1960's vintage.
Occupancy:	Residential.
No. of Stories:	One.
Dimensions:	Approximately 2000 square feet with a first story plate height of 8 feet.

DEC 09 1998

CITY OF SACRAMENTO
DEPARTMENT SERVICES DIV.

CONSTRUCTION:

Roof:

The roof covering will consist of Pioneer Light Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 6'-0" on center by 2x4 struts bearing on walls below except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x6 rafters spaced at 24" on center supported mid-span and at the ridge by a 6x beam. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.

CONCLUSIONS:

Roof:

The living and garage areas lack sufficient structural capacity for the applied live and dead loads.

Reviewed by Matt P. 12/9/98

1/7

Yee

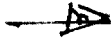

4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960


RECOMMENDATIONS:

If any of the following recommendations do not correspond to actual field conditions, the engineer of record shall be notified for further investigation and evaluation before continuing work..

Living Area:

-  1. Scab a 2x8 DF#2 x 8'-0" long purlin to the existing 2x6 purlin which spans 8'-0". Attach it with 16d's @ 3" on center. Support the 2x8 to the bearing walls below with 2x4 struts. See details 1 and 2.
-  2. Add 2x6 blocking between the existing rafters where there is a gap of approximately 1 1/2" between the rafters and the ridge board. Attach the blocking to the ridge board with 4-16d's and the rafters to the blocking with Simpson A34 clips. See details 1 and 3.

Garage:

-  3. Scab a 1 3/4" x 11 7/8" microlam beam to the existing 2x6 crosstie and nail together with 16d's @ 12" oc. The ends of the microlam may be clipped as required to meet the slope of the rafters.. Support the existing purlin to the microlam beam with 2x4 struts spaced at no more than 4'-0" oc. See detail 1.

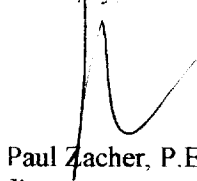
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and are not an indication of a structural hazard or failure.

It shall be noted that some deflection of the rafters may be evident after installation of the tile. The existing roof framing has deflected but this may not be readily evident due to the uneven nature of the existing roofing material. Concrete tile is a very consistent and uniform product and when installed in an even plane, even small deflections can become apparent. This is only a cosmetic issue and not a structural concern.

The inspection consisted of visual observation only, made solely to determine the structural capacity of the existing roof. Analysis does not determine any effects on the overall structure under lateral forces or effects on the foundation unless specifically noted in the calculations and in this document. No warranties, expressed or implied, are made or intended in conjunction with this report. The inspection was made only to the portions that were accessible. The specific items noted were those that were observable and there may be defects which are not observable, or are hidden by architectural and structural materials.

If you have any questions on the above, do not hesitate to call.

Sincerely,



Paul Zacher, P.E., S.E.
file

DESIGN LOADING:

Roof Pitch 4 in 12
Pitch Adjustment Factor 1.05

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Pioneer Light Weight	7.00	psf
Roofing felt	0.30	psf
1x4 skip sh't'g	1.09	psf
1/2" OSB/ plywood	1.50	psf
2x6 rafters @ 24" oc	<u>1.00</u>	psf
	Load	10.9 psf
Roof Pitch Adjustment	<u>0.59</u>	psf
Total Load	11.5	psf

LOCATION: VAULT

<u>MATERIAL</u>	<u>WEIGHT</u>	
Pioneer Light Weight	7.00	psf
Roofing felt	0.30	psf
1/2" OSB/ plywood	1.50	psf
1x4 skip sh't'g	1.09	psf
2x6 rafters @ 24" oc	1.00	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	<u>2.50</u>	psf
	Load	13.9 psf
Roof Pitch Adjustment	<u>0.75</u>	psf
Total Load	14.6	psf

Title :
 Dsgnr:
 Description :

Date:
 Job #

Scope :

Rev. 510001

Timber Beam & Joist

Page 1

Description RAFTERS AND BEAMS

Timber Member Information

		2x4	2x8 purlin	6x12	microlam
Timber Section		2x4	2-2x6	6x12	LVL:1.750x
Beam Width	in	1.500	3.000	5.500	1.750
Beam Depth	in	3.500	5.500	11.500	11.875
Le: Unbraced Length	ft	0.00	2.00	2.00	2.00
Timber Grade		Douglas Fir - Larch,	Douglas Fir - Larch,	Douglas Fir - Larch,	Truss Joist - MacMil
Fb - Basic Allow	psi	875.0	875.0	1,350.0	2,600.0
Fv - Basic Allow	psi	95.0	95.0	85.0	285.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0	1,800.0
Load Duration Factor		1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn	
Repetitive Status		Repetitive	No	No	No

Center Span Data

		8.00	8.00	14.00	20.00
Span	ft				
Dead Load	#/ft	23.00	86.00	120.00	
Live Load	#/ft	32.00	120.00	132.00	
Point #1 DL	lbs				690.00
LL	lbs				960.00
@ X	ft				10.000

Results Ratio = 0.9138 0.9223 0.3633 0.7857

Mmax @ Center	in-k	5.28	19.78	74.09	99.00
@ X =	ft	4.00	4.00	7.00	10.00
fb : Actual	psi	1,724.1	1,307.5	611.1	2,407.0
Fb : Allowable	psi	1,886.7	1,417.6	1,682.1	3,063.4
		Bending OK	Bending OK	Bending OK	Bending OK
fv : Actual	psi	58.3	66.5	36.1	59.5
Fv : Allowable	psi	118.8	118.8	106.3	356.3
		Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End DL	lbs	92.00	344.00	840.00	345.00
LL	lbs	128.00	480.00	924.00	480.00
Max. DL+LL	lbs	220.00	824.00	1,764.00	825.00
@ Right End DL	lbs	92.00	344.00	840.00	345.00
LL	lbs	128.00	480.00	924.00	480.00
Max. DL+LL	lbs	220.00	824.00	1,764.00	825.00

Deflections

Center DL Defl	in	-0.247	-0.119	-0.093	-0.452
L/Defl Ratio		388.4	806.1	1,806.5	530.9
Center LL Defl	in	-0.344	-0.166	-0.102	-0.629
L/Defl Ratio		279.1	577.7	1,642.3	381.6
Center Total Defl	in	-0.591	-0.285	-0.195	-1.081
Location	ft	4.000	4.000	7.000	10.000
L/Defl Ratio		162.4	336.5	860.2	222.0

4

1 ROOF PLAN - YEE
N.T.S.

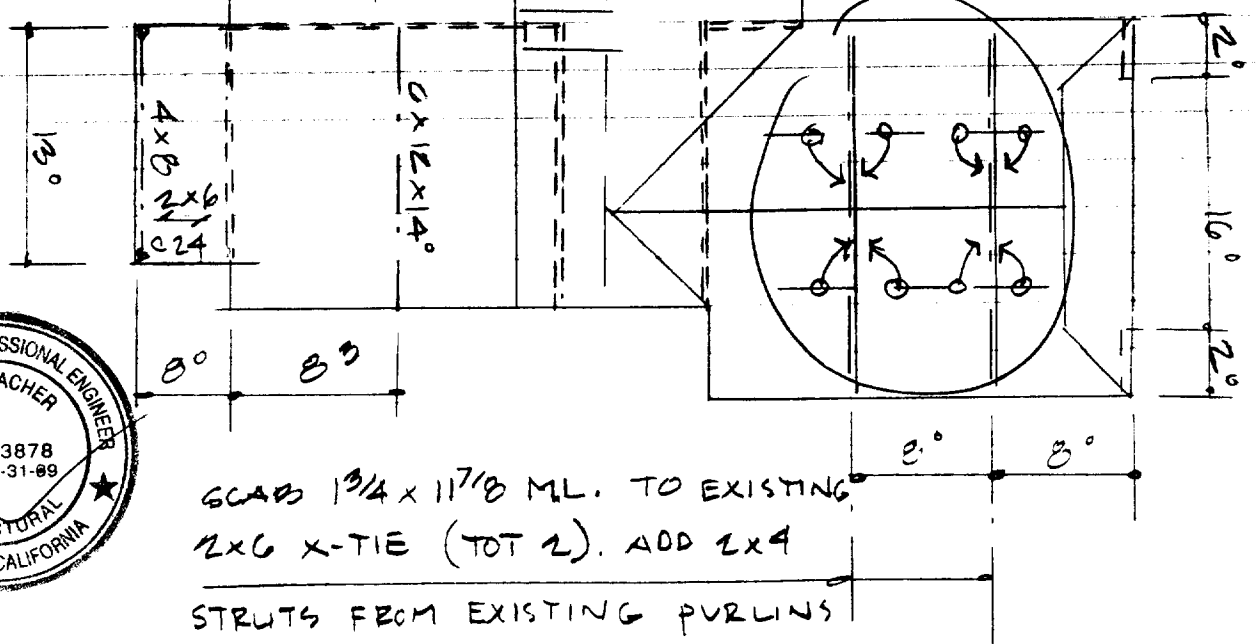
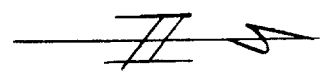
SCAB 2x8 x 8° PURLIN
TO EXISTING 2x6 x 8°
PURLIN (2)

76 76 76

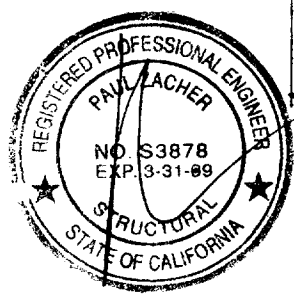
2x6 PURLIN
w/ 2x4 STRUTS

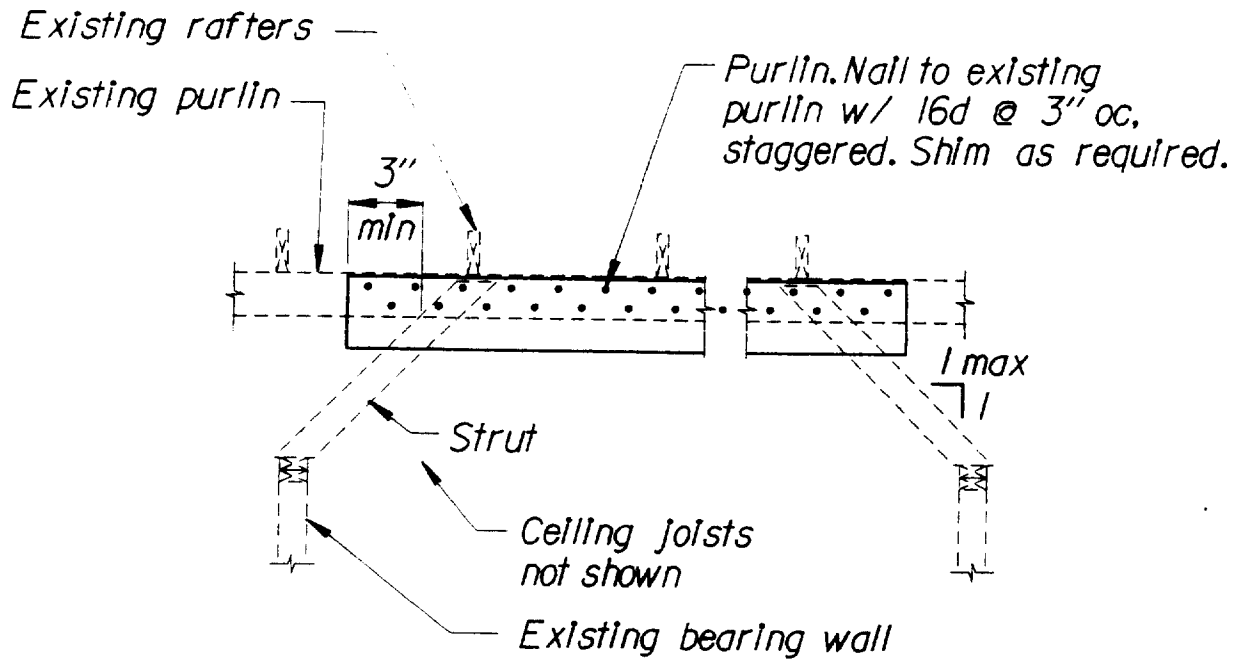
2x4 C 24

ADD 2x6 x 1-10 1/2" BLKG
@ RIDGE BETWEEN RAFTERS
WHERE RAFTERS ARE ~ 1 1/2"
SHORT OF RIDGE, ADD
SIMPSON ASD4 CLIPS
(TOTAL 5) (3)



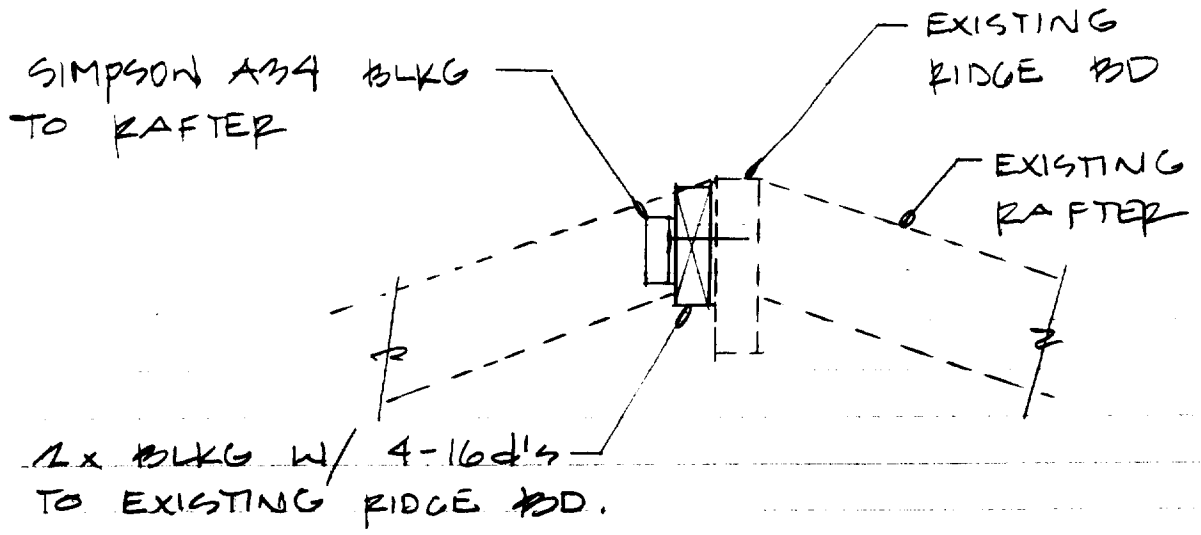
SCAB 1 3/4 x 11 7/8 ML. TO EXISTING
2x6 X-TIE (TOT 2). ADD 2x4
STRUTS FROM EXISTING PURLINS
TO ML BELOW





2

PURLIN DETAIL



3 —————
 DETAIL
 N.T.S

