

CITY OF SACRAMENTO

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

Permit No: **0403916**

1231 I Street, Sacramento, CA 95814

Insp Area: 2
Thos Bros: 336J1

Site Address: 18 PARKSHORE CR SAC
Parcel No: 030-0580-063

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

CONTRACTOR
WEATHERTITE ROOFING
4661 SUMMER CREEK CT
SHINGLE SPRINGS, CA 95682

OWNER
KATO LELAND M & CONNIE A
18 PARKSHORE CR
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: RES REROOF TEAR OFF AND REPLACE WITH LIGHTWEIGHT TILE. 32 SQUARES. SINGLE STORY.

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-39 License Number 420375 Date 3/17/04 Contractor Signature Carolyn Peer

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: MAR 17 2004

Date _____ Owner Signature _____



IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city, in 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 3/17/04 Applicant/Agent Signature Carolyn Peer

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 1271896-2003 Exp Date 10/01/2004

(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 3/17/04 Applicant Signature Carolyn Peer

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.

(2 of 2)

0403916

Kato



Paul Zacher - Structural Engineers, Inc
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.6552

PEER
ZACHER
STRUCTURAL ENGINEERS
INC.
4701 LAKESIDE WAY
FAIR OAKS, CA 95628
TEL: 916-961-3960
FAX: 916-961-6552

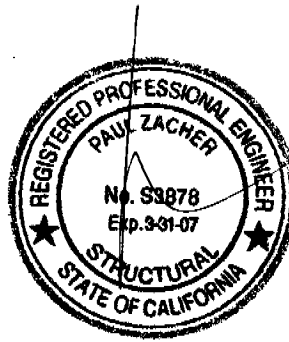
March 15, 2004

Weather-Tite Roofing Company
P.O. Box 6068
Folsom, CA 95673
TEL: (916) 635-9810; M: (916) 849-1977
FAX: (916) 635-9810

Attn.: Mr. Larry Peer,

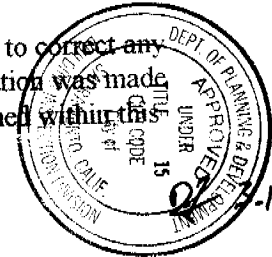
re: Job 2004128: KATO

Subject: Structural Investigation Report of the Roof for the Residence located at 18 Parkshore Circle, Sacramento, CA 95831.



CITY COPY

As requested by Mr. Larry Peer, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site March 12, 2004. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report are based on the 1997 Uniform Building Code with 2001 CBC Title 24 Amendments.



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

DESCRIPTION:

Type of Facility: Residence.
Year Built: Estimated 1980's vintage.
Occupancy: Residential.
No. of Stories: One.
Dimensions: Approximately 3000 square feet.

ISSUED
MAR 17 2004
Sacramento Building Division

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 any violation of any City Ordinance of State.

CONSTRUCTION:

Roof:
The roof covering will consist of a Light Weight Concrete Tile over 7/16" solid sheathing. The roof structure 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. 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 roof structure currently lacks sufficient structural capacity for the applied live and dead loads. See "Recommendations" for location and repair to bring the roof structure up to the required capacity.

SPB 3-23-04



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.

Roof Structure:

1. Add a 4x4 DF#1 post from the existing cantilevered 4x12 beam to a new footing below. The footing shall be 18" x 18" square x 12" deep with 2 - #4 rebar each way 3" clear from the bottom of footing. The 4x4 post shall be attached to the existing 4x beam with a Simpson AC44 post cap and to the new footing with a Simpson PB44. See detail 1.
2. The existing purlin is not installed with a level horizontal profile. Therefore, shim the existing rafters and/ or purlin as required to provide a level roof profile. See detail 1.
3. Scab a 1 3/4" x 11 7/8" x 16'-0" long LVL to the existing 4x12 purlin which spans 17'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See details 1 and 2.
4. Scab a 1 3/4" x 11 7/8" LVL beam to the existing 2x12 ridge board which spans 17'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See details 1 and 2.

It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls that 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 that 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	6	in 12
Pitch Adjustment Factor	1.12	

LOCATION: ROOF

MATERIAL

WEIGHT

Light Weight Tile	7.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
7/16" OSB/ plywood	1.30	psf
2x6 rafters @ 24" oc	1.00	psf
..... Load	11.0	psf
Roof Pitch Adjustment	1.30	psf
Total Load	12.3	psf

Job #: 04_128

Date: 03/15/2004

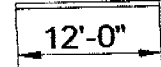
LOADING:

Rafter:

Dr = 12.3 psf x 2'-0" = 24.6 plf
 Lr = 16.0 psf x 2'-0" = 32.0 plf

2x6 #2

24.6 / 32.0

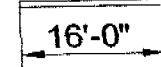


B1:

Dr = 12.3 psf x 7'-0" = 86 plf
 Lr = 16.0 psf x 7'-0" = 112 plf

4x12 #2

86 / 112

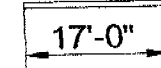


B2:

Dr = 12.3 psf x 10'-0" = 123 plf
 Lr = 16.0 psf x 10'-0" = 160 plf

4x12 #2 + 1-3/4"x11-1/4" LVL

123 / 160

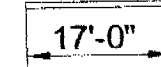


LVL:

Dr = 12.3 psf x 9'-0" = 111 plf
 Lr = 16.0 psf x 9'-0" = 144 plf

1-3/4"x11-1/4" LVL

111 / 144



Paul Zacher - Structural Engr's
 4701 Lakeside Way
 Fair Oaks, CA 95628
 TEL: (916) 961-3960
 FAX: (916) 961-6552

Title :
 Dsgnr:
 Description :
 Scope :

Job #
 Date: 8:39AM, 15 MAR 04

Rev: 580100
 User: KW-0602844, Ver 5.6.1, 25-Oct-2002
 (c)1983-2002 ENERCALC Engineering Software

Timber Beam & Joist

c:\documents and settings\paul zacher\desktop

Description RAFTERS AND BEAMS

Calculations are designed to 1997 NDS and 1997 UBC Requirements

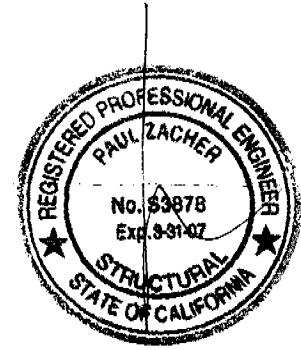
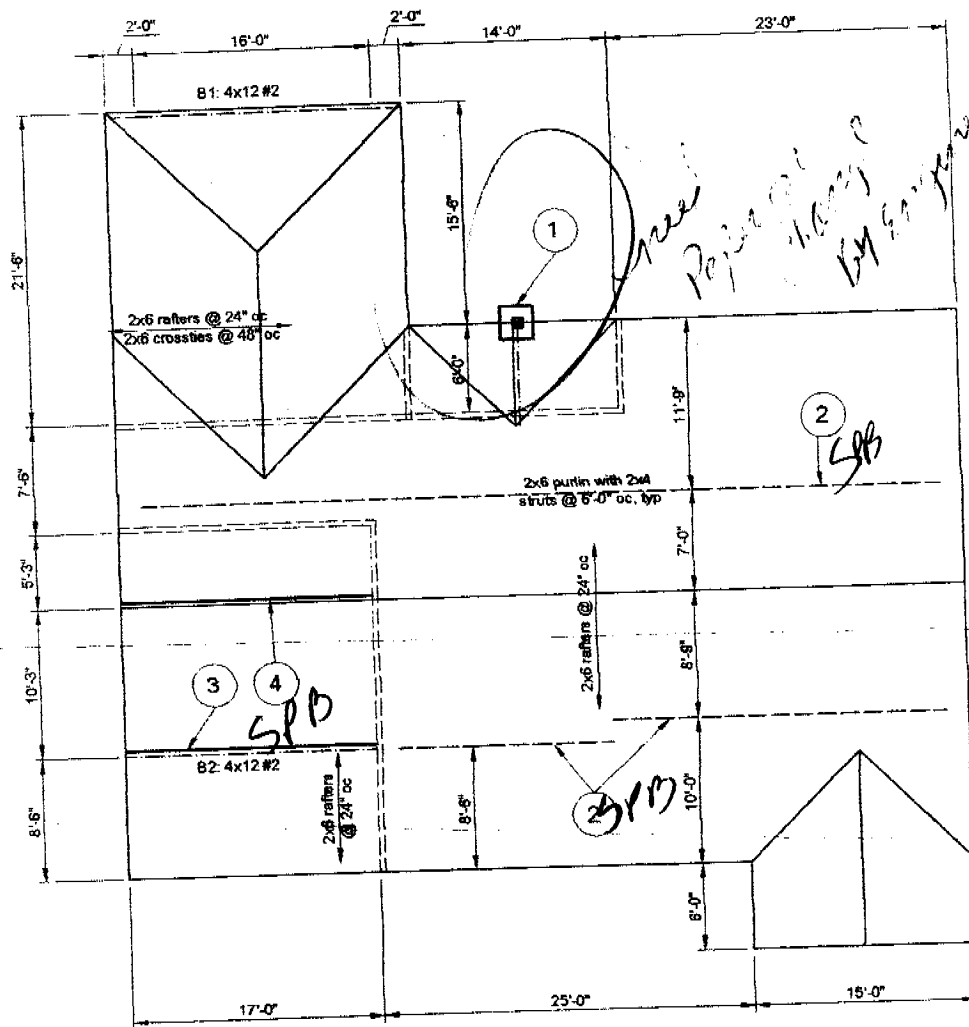
Timber Member Information		rafter	B1	B2	LVL
Timber Section		2x6	4x12	4x12#2 + 1	MicroLam:
Beam Width	in	1.500	3.500	5.250	1.750
Beam Depth	in	5.500	11.250	11.250	11.875
Le: Unbraced Length	ft	0.00	0.00	0.00	0.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch	Custom, DF#2 + LVL	Truss Joist - MacMill
Fb - Basic Allow	psi	875.0	875.0	1,450.0	2,600.0
Fv - Basic Allow	psi	95.0	95.0	158.0	285.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,666.7	1,900.0
Load Duration Factor		1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Manuf/Pine	Manuf/Pine
Repetitive Status		Repetitive	No	No	No

Center Span Data					
Span	ft	12.00	16.00	17.00	17.00
Dead Load	#/ft	24.60	86.00	123.00	111.00
Live Load	#/ft	32.00	112.00	160.00	144.00

Results		Ratio =	0.9887	0.8560	0.6112	0.8270
Mmax @ Center	in-k	12.23	76.03	122.68	110.54	
@ X =	ft	6.00	8.00	8.50	8.50	
fb : Actual	psi	1,616.6	1,029.9	1,107.8	2,687.7	
Fb : Allowable	psi	1,635.2	1,203.1	1,812.5	3,250.0	
		Bending OK	Bending OK	Bending OK	Bending OK	
fv : Actual	psi	57.3	53.6	54.7	138.9	
Fv : Allowable	psi	118.8	118.8	197.5	356.3	
		Shear OK	Shear OK	Shear OK	Shear OK	

Reactions						
@ Left End	DL	lbs	147.60	688.00	1,045.50	943.50
	LL	lbs	192.00	896.00	1,360.00	1,224.00
	Max. DL+LL	lbs	339.60	1,584.00	2,405.50	2,167.50
@ Right End	DL	lbs	147.60	688.00	1,045.50	943.50
	LL	lbs	192.00	896.00	1,360.00	1,224.00
	Max. DL+LL	lbs	339.60	1,584.00	2,405.50	2,167.50

Deflections		Ratio OK	Deflection OK	Deflection OK	Deflection OK
Center DL Defl	in	-0.345	-0.191	-0.223	-0.450
L/Defl Ratio		417.5	1,006.0	916.3	453.8
Center LL Defl	in	-0.449	-0.249	-0.290	-0.583
L/Defl Ratio		320.9	772.5	704.4	349.8
Center Total Defl	in	-0.794	-0.439	-0.512	-1.033
Location	ft	6.000	8.000	8.500	8.500
L/Defl Ratio		181.5	437.0	398.3	197.5



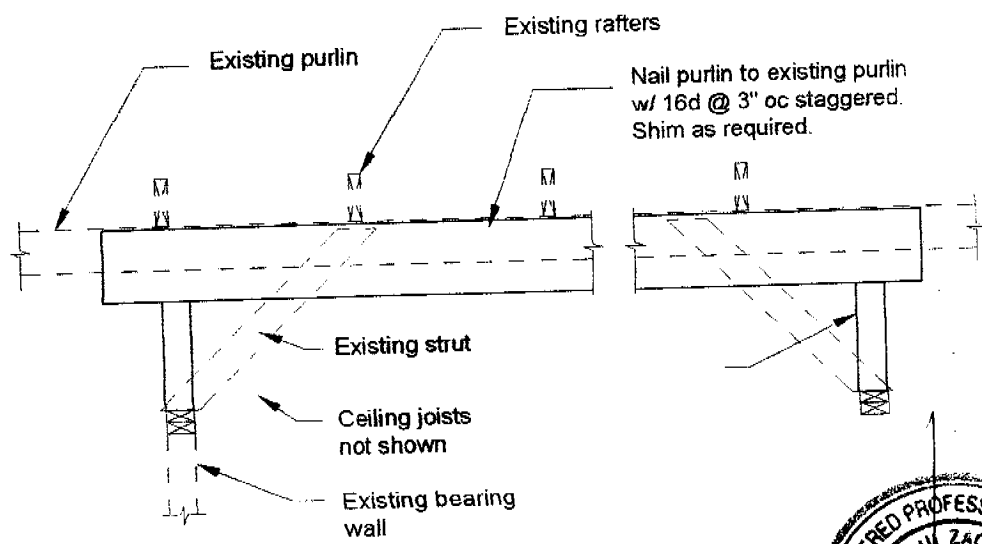
FRAMING NOTES:

1. Add a 4x4 DF#1 post from the existing cantilevered 4x12 beam to a new footing below. The footing shall be 18" x 18" square x 12" deep with 2 - #4 rebar each way 3" clear from the bottom of footing. The 4x4 post shall be attached to the existing 4x beam with a Simpson AC44 post cap and to the new footing with a Simpson PB44.
2. The existing purlin is not installed with a level horizontal profile. Therefore, shim the existing rafters and/or purlin as required to provide a level roof profile.
3. Scab a 1 3/4" x 11 7/8" x 17'-0" long LVL to the existing 4x12 purlin which spans 17'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See detail 1.
4. Scab a 1 3/4" x 11 7/8" x 17'-0" long LVL to the existing 2x12 ridge board which spans 17'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See detail 1.

NOTES:

- A. This is a reroof project. The new roofing material shall be a Light Weight Concrete Tile. The tile shall weigh less than or equal to 7.3 psf.
- B. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
- C. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.1 "Roof and Ceiling Framing" unless otherwise shown.
- D. All structural wood members that were observed appear to be in sound condition and without structural defect.

1
ROOF PLAN - KATO
Not to Scale



2

PURLIN DETAIL

scale: 1/2" = 1'-0"