CITY OF SACRAMENTO 1231 I Street, Sacramento, CA 95814

Site Address: 1170 27TH AV SAC Sub-Type: RES Parcel No: -0.6 - 0.252 - 0.07Housing (Y/N): N CONTRACTOR OWNER ARCHITECT IMMERMAN ROOP NOT INC KANENAGA JERRY M/JEAN K 3675 R STREET 20.27TH AV NACRAMENTO, CA 953150 SACRAMENTO CA 95822 Nature of Work: 31 SQ T/O SHAKE REROOF WILTWITTILE CONSTRUCTION LENDING AGENCY: thereby affirm under penalty of perjury that there is a construction lending agency for the performance the work for which this permit is issued (Sec. 309%, U. V. J.). Lender's Address LICENSED CONTRACTORS DECLARATION: 1 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. conse Class CF | Fidense Number 557559 | Pale | 210 | Contractor Signature | OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the reliowing reason (Sec. 2031.5, 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 A 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 ochalty of not more than five hundred Bollars (\$500.60) 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 said. 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 and build or improve for the autpose of sale a I, as owner of the property, and exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions sode. The Contractors License Law does not apply to adjoin of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed parsaunt to the Contractors License Law-B & PC for this reason: Owner Signature 1N 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. is satisfy 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 resaining to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes. Mish Date 1-2761 Applicant Agent Signature WORKER'S COMPENSATION DECLARATION: Thereby affirm under penalty of perjury one of the following declarations: I have and will maintain a certif cate 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 earner and policy number are: 10/01/2001 Policy Number 713-00-2021 Exp Date (This section need not be completed if the permit is for \$100 or less). Lecrtify that in the performance of the work for which this permit is issued, I stail 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 schinger to the workers' compensation provisions of Section 2700 of the Labor Code, I shall forthwith comply with those provisions.

0109523

Permit No:

Insp Area:

· GMPENSATION DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

A ARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO RIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF

Applicant Signature

Kanenaga

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ATGORD DEASPART MANGERT WASSELL WASSEL

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

TEL: 916.961.3960 FAX: 916.961.6552

July 3, 2001

Zimmerman Roofing 3675 R Street

Sacramento, CA 95816

TEL: 916.454.3667 FAX: 916.455.3784

Attn.: Mr. Jeff Tucker,

re: Job 2001 172: KANENAGA

to make any changes or artificial them 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 color of approve the color of the c

violation of an City Ordinance or S



Subject: Structural Investigation Report of the Roof for the Residence located at 1170 27th Avenue, Sacramento, CA 95822.

As requested by Mr. Jeff Tucker, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site July 3, 2001. 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.

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

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.

CONSTRUCTION:

Roof:

The roof covering will consist of a Light Weight Concrete Tile over "infill" skip 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. 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 have sufficient structural capacity for the applied live and dead loads.



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

TEL: 916.961.3960

RECOMMENDATIONS:
None.

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 V

DESIGN LOADING:

Roof Pitch	4	in 12
Pitch Adjustment Factor	1.05	

LOCATION: ROOF		
<u>MATERIAL</u>	WEIGHT	-
Light Weight Tile	7.00	psf
Roofing felt	0.30	psf
1x4 in fill skip sht'g	2.19	psf
2x6 rafters @ 24" oc	<u>1.00</u>	psf
Lo	oad 10.5	psf
Roof Pitch Adjustm	ent <u>0.57</u>	psf
Total Lo	oad 11.1	psf

P.K. Zacher, S.E. 4701 Lakeside Way Fair Oaks, CA 95628						
Job#: 0) - 172	TEL: (916) 961-3960 FAX: (916) 961-6552					
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Paul Zacher - Structural Engineers

4701 Lakeside Way

Fair Oaks

TEL: (916) 961-3960 FAX: (916) 961-6552

Title: Dsgnr:

Job# Date: 1:31PM, 4 JUL 01

Scope:

Description:

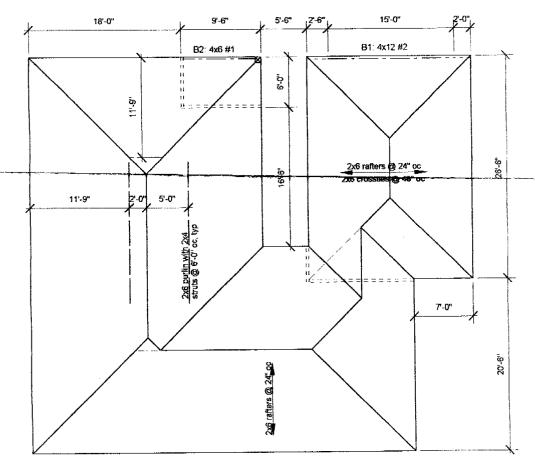
Timber Beam & Joist

c:\enercalc\test.ecw:Calculations

Description

Rev. 510304 User: NW-0502844, Ver 5.1.3, 22-Jun-1999, Wm32 (c) 1933-99 ENERCALC RAFTERS AND BEAMS

Timber Member Information			rmation Calculations are designed to 1997 NDS and 1997 UBC Requirements		
		rafter	B1	B2	
Timber Section		2x6	4x12	4x6	
Beam Width	in	1.500	3.500	3,500	
Beam Depth	in	5.500	11.250	5.500	
Le: Unbraced Length	ft	0.00	0.00	0.00	
Timber Grade		ouglas Fir - Larch, o	ouglas Fir - LarchDo		
Fb - Basic Allow	psi	875.0	875.0	1,000.0	
Fv - Basic Allow	psi	95.0	95.0	95.0	
Elastic Modulus	ksi	1,600.0	1,600.0	1,700.0	
Load Duration Factor		1.250	1.250	1.250	
Member Type Repetitive Status		Repetitive	No	No Source	- The second sec
Center Span Data	l.			- British Co. C. Byr C.	
Span	ft	12.17	16.00	9.50	
Dead Load	#/ft	22.20	78.00	67.00	
Live Load	#/ft	32.00	112.00	96.00	
Results	Ratio =	0.9737	0.8214	0.7695	
The state of the s		12.04	72.96	22.07	
Mmax @ Center @ X =	in-k ft	6.08	72.90 8.00	4.75	
-	Ţ			1,250.5	
fb : Actual	psi	1,592.2 1.635.2	988.2 1,203.1	1,230.3	
Fb : Allowable	psi	1,035.∠ Bending OK		,	
			-	_	
fv : Actual	psi	55.6	51.4	54.5 118.8	
Fv : Allowable	psi	118.8 Shear OK	118.8 Shear OK		
Reactions	<u>-</u> !				
@ Left End DL	lbs	135.09	624.00	318.25	
LL LL	lbs	194,72	896.00	456.00	
Max. DL+LL	lbs	329.81	1,520.00	774.25	
@ Right End DL	lbs	135.09	624.00	318.25	
LL	lbs	194.72	896.00	456.00	
Max. DL+LL	lbs	329.81	1,520.00	774.25	
Deflections	*/************************************	Ratio OK	Deflection OK	Deflection OK	
Center DL Defi	in	-0.329	-0.173	-0.149	
L/Defl Ratio		443.5	1,109.2	765.9	
Center LL Defl	in		-0.249	-0.213	
L/Defl Ratio		307.7	772.5	534.6	
Center Total Defi	in	-0.804	-0.422	-0.36 2	
Location	ft		8.000	4.750	
L/Defl Ratio		181.7	455.4	314.8	





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
- 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.

