

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0114475

Insp Area: 2

Thos Bros: 317 A5

Site Address: 5970 GLORIA DR SAC

Parcel No: 029-0172-011

Sub-Type: RES

Housing (Y/N): N

CONTRACTOR

ALLSEASON ROOFING
9538 POWER HOUSE RD
NEWCASTLE CA 95655

OWNER

ARESON MARK H/DEBORAH A
9206 PELHAM WY
ELK GROVE CA 95624

ARCHITECT

Nature of Work: REROOF T/O RESHT 34SQ INSTALL TILE ROOF

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 239 License Number 459864 Date 11/2/01 Contractor Signature James R. Blk

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 11/2/01 Applicant/Agent Signature James R. Blk

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.

JB 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 1342106-01 Exp Date 10/01/2002

(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.

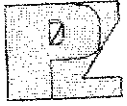
Date 11/2/01 Applicant Signature James R. Blk

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.

0114475

Areson



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

TEL: 916.961.3960
FAX: 916.961.6552

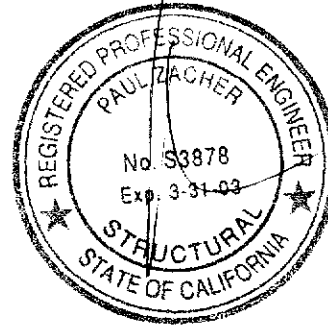
October 16, 2001

All Seasons Roofing
9835 Powerhouse Road
Newcastle, CA 95658
TEL: (916) 483-1318

ISSUED

NOV 07 2001

Sacramento Building Division



Attn.: Mr. James M Blake,

re: Job 2001_347: ARESON

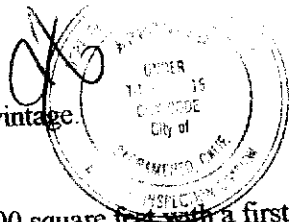
Subject: Structural Investigation Report of the Roof for the Residence located at 5970 Gloria Drive, Sacramento, CA 95831.

As requested by Mr. James M Blake, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site October 16, 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:	Duplex.
Year Built:	Estimated 1960's vintage.
Occupancy:	Residential.
No. of Stories:	One.
Dimensions:	Approximately 3000 square feet with a first story plate height of 8 feet.



to all other changes of the same without which permission from Building 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.

CONSTRUCTION:

Roof:
The roof covering will consist of a 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 16'-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.

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Paul Zacher - Structural Engineers
 4701 Lakeside Way
 Fair Oaks
 TEL: (916) 961-3960
 FAX: (916) 961-6552

Title :
 Dsgnr:
 Description :

Job #
 Date: 5:30PM, 16 OCT 01

Scope :

Timber Beam & Joist

c:\enercalc\test.ecw\Calculations

Rev: 510304
 User: KW-0602844, Ver 6.1.1.3, 22-Jun-1999, Win32
 (c) 1983-99 ENERCALC

Description RAFTERS AND BEAMS

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Member Information

Timber Section		rafter	B1 4x12	purlin LVL:1.750x	purlin LVL:1.750x
Beam Width	in	1.500	3.500	1.750	1.750
Beam Depth	in	5.500	11.250	9.250	11.250
Le: Unbraced Length	ft	0.00	0.00	0.00	0.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch	Russ Joist - MacMill	Russ Joist - MacMill
Fb - Basic Allow	psi	875.0	875.0	2,600.0	2,600.0
Fv - Basic Allow	psi	95.0	95.0	285.0	285.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,900.0	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

	ft	11.58	10.00	14.00	16.00
Span					
Dead Load	#/ft	29.20	102.00	110.00	110.00
Live Load	#/ft	32.00	112.00	120.00	120.00
Ratio =		0.9955	0.3614	0.8337	0.7362

Results

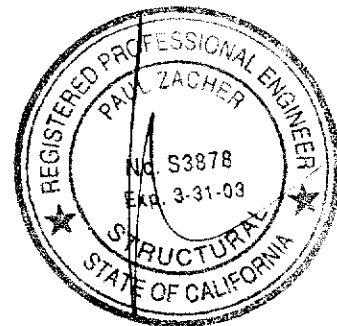
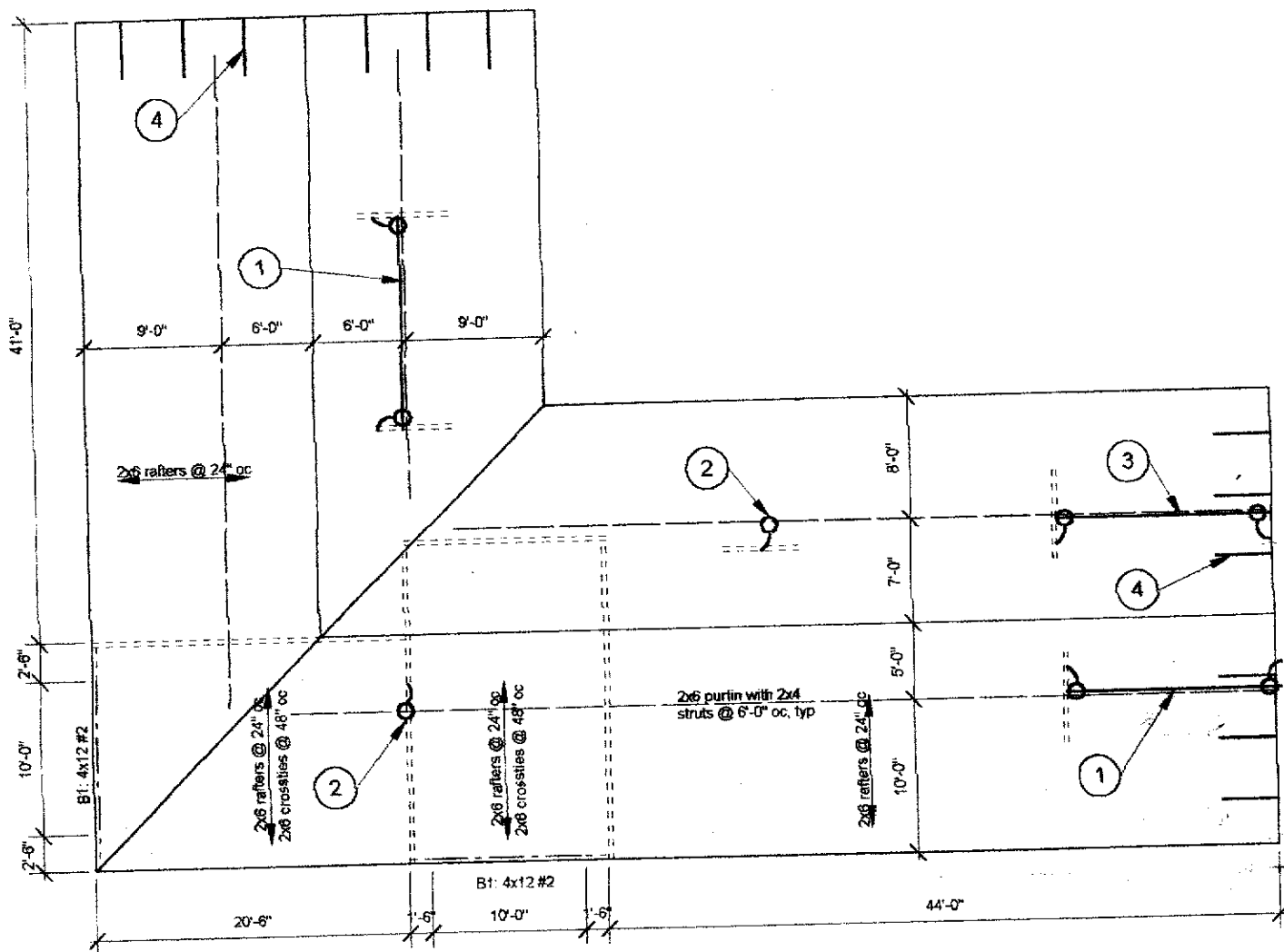
	in-k	12.31	32.10	67.62	88.32
Mmax @ Center	ft	5.79	5.00	7.00	8.00
@ X =					
fb: Actual	psi	1,627.8	434.8	2,709.6	2,392.6
Fb: Allowable	psi	1,635.2	1,203.1	3,250.0	3,250.0
		Bending OK	Bending OK	Bending OK	Bending OK
fv: Actual	psi	59.8	33.3	133.7	124.5
Fv: Allowable	psi	118.8	118.8	356.3	356.3
		Shear OK	Shear OK	Shear OK	Shear OK

Reactions

	lbs	169.07	510.00	770.00	880.00
@ Left End DL					
LL	lbs	185.28	560.00	840.00	960.00
Max. DL+LL	lbs	354.35	1,070.00	1,610.00	1,840.00
@ Right End DL	lbs	169.07	510.00	770.00	880.00
LL	lbs	185.28	560.00	840.00	960.00
Max. DL+LL	lbs	354.35	1,070.00	1,610.00	1,840.00

Deflections

		Ratio OK	Deflection OK	Deflection OK	Deflection OK
Center DL Defl	in	-0.355	-0.035	-0.434	-0.411
L/Defl Ratio		391.4	3,474.4	387.5	487.0
Center LL Defl	in	-0.389	-0.036	-0.473	-0.449
L/Defl Ratio		357.2	3,164.1	355.2	428.1
Center Total Defl	in	-0.744	-0.072	-0.907	-0.860
Location	ft	5.790	5.000	7.000	8.000
L/Defl Ratio		186.7	1,656.0	185.3	223.4



FRAMING NOTES:

1. Scab a 1 3/4" X 9 1/4" x 14'-0" long LVL to the existing 2x6 purlin. See detail 2.
2. Add 2x4 struts to bearing below (total 2).
3. Scab a 1 3/4" X 11 1/4" x 16'-0" long LVL to the existing 2x6 purlin. See detail 2
4. Add 2x6 outlookers @ 4'-0" oc (total 12). See detail 3.

Notes:

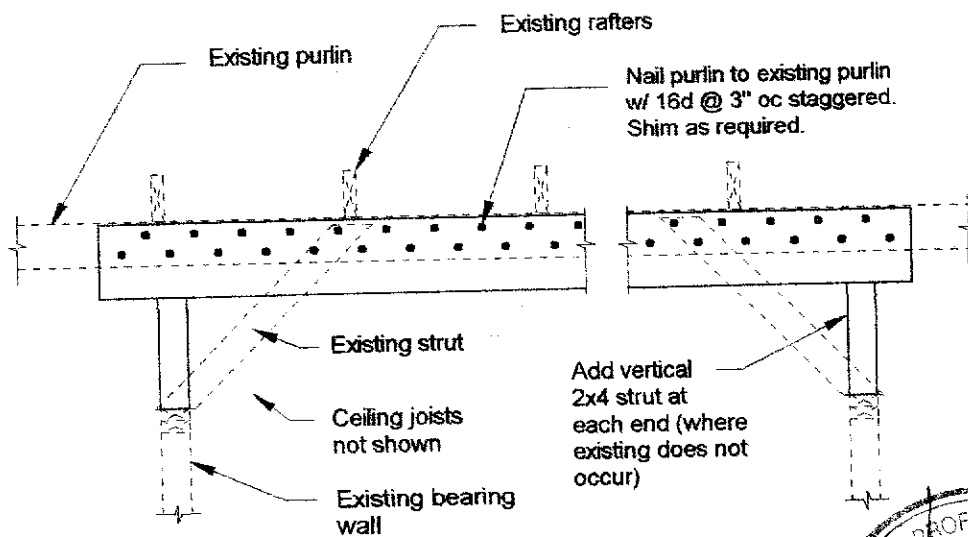
- A. This is a reroof project. The new roofing material shall be a Standard Weight Concrete Tile. The tile shall weigh less than or equal to 10.0 psf.
- B. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
- C. All existing rafter, hips, valleys, rafter ties, and purlins 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.



ROOF PLAN - ARESON

Not to Scale

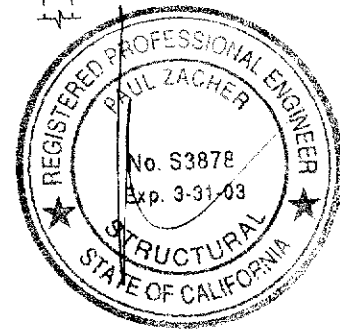
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2

PURLIN DETAIL

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



P.K. Zacher, S.E.

Job #: 01-347

Date: 10/16/01

LOADING

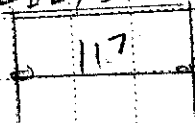
ROOF TR

$$O_p = 14.6 \text{ pWF} \times 2^\circ = 29.2 \text{ pWF}$$

$$L_p = 16.0 \text{ " } \dots = 32 \text{ "}$$

$$2 \times 6 \times 2$$

29.2/32



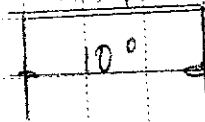
2nd

$$O_p = 14.6 \text{ pWF} \times 7^\circ = 102 \text{ pWF}$$

$$L_p = 16.0 \text{ " } \dots = 112 \text{ "}$$

$$4 \times 12 \times 2$$

102/112



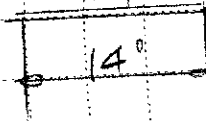
PVBLW

$$O_p = 14.6 \text{ pWF} \times 7^\circ = 110 \text{ pWF}$$

$$L_p = 16.0 \text{ " } \dots = 120 \text{ "}$$

$$1 \frac{3}{4} \times 9 \frac{1}{4} \text{ LVL}$$

110/120



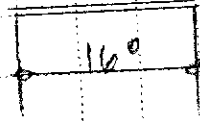
PVBLW

$$O_p = 14.6 \text{ pWF} \times 7^\circ = 110 \text{ pWF}$$

$$L_p = 16.0 \text{ " } \dots = 120 \text{ "}$$

$$1 \frac{3}{4} \times 11 \frac{1}{4} \text{ LVL}$$

110/120





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

DETAIL

3

