0509180 CITY OF SACRAMENTO Permit No: 1231 I Street, Sacramento, CA 95814 Insp Area: Thos Bros: 337A3 Sub-Type: REP Site Address: 7549 MONTE BRAZIL DR SAC Housing (Y/N): N Parcel No: 031-0720-037 ARCHITECT **CONTRACTOR OWNER** WONG GILBERT DEAN/GILDA H ZIMMERMAN REROOFING CO. 7549 MONTE BRAZIL DR 3675 R ST SACRAMENTO CA 95816 SACRAMENTO CA 95831 Nature of Work: T/O & REROOF 28SQ'S WITH 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 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 Number 763169 _ Date 6-24-05 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). B & PC for this reason I am exempt under Sec. Owner Signature Date

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 the post 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 moned property for inspection trapposes building construction and herby authorize representative(s) of this city to enter upon the aboven

Applicant/Agent Signature Date

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:

STATE FUND

10/01/2005 Policy Number 713-0002021 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, Ishall 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.

Applicant 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.

0509180





CITY OF SACRAMENTO

PLANNING & BUILDING DEPARTMENT BUILDING DIVISION

www.cityofsacramento.org

Help Line: 1-916-264-5656 OR 1-866-EZ-PERMIT inspection: 1-916-808-4677



Downtown Permit Center 1-916-264-6807 1231 | Street, Suite 200, Sacramento, CA 95814

nit Center 1-916-264-6807 North Permit Center 1-916-808-2354 2101 Arena Blvd., Suite 200, Sacramento, CA 95834 PRELIMINARY RESIDENTIAL APPLICATION

1-916-264-5656 OR 1-866-EZ-PERMIT

7549 Monte	Acard Dr.	. !	2
BUILDING SITE ADDRESS	SUITE	<u> </u>	INSP. AREA
	~		050 9180
031-0720-03 ASSESSOR'S PARCEL NO.	COMMUNIT	PLAN NO.	PLAN CHECK NO.
	150500	ZIP CODE	PHONE NO.
NAME OF APPLICANT	ADDRESS	ZII 00DL	
Zimmerman Re-Roding. In	c 3/075 R Street	95816	454-3667
Zimmerman ne request	7/2/1/9		
CONTRACTOR'S LICENSE NO.	165101		
PROPERTY OWNER	7549 Monte Brazil	Dr 958	31 395-4939
ARCHITECT/ENGINEER	- Florito Graz.	180	
N/A			
151.2		287	
No. of No. of	Roof Area 1 st Total	Area G	Barage Patio Area Area
Stories Rooms C	Covering Floor		Alea /1100
THIS PERMIT IS FOR: BUILDING MECHAN	NICAL PLUMBING ELEC	CTRICAL	SITE FIRE
NATURE OF WORK IN DETAIL			
Tear off and Reko	of w/ Eagle lite, fond	erosatul	l. Singer
family residence.	of w/ Eastelite, Pond Roof Pitch 4/12		
- 13 500 00			
\$ 18,500,00			11124
VALUATION		$A \rightarrow A$	7/

NGBGG:::::WFLBBCBLGC

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

TEL: 916.961.3960 FAX: 916.961.6552

June 20, 2005

Zimmerman Roofing 3675 R Street Sacramento, CA 95816 TEL: (916) 454-3667 FAX: (916) 691-1943

Attn.: Mr. Jeff Shulman,

re: Job 2005238: WONG

53878

Subject: Structural Investigation Report of the Roof for the Residence located at 7549 Monte Brazil Drive, Sacramento, CA 95831.

As requested by Mr. Jeff Shulman, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site June 14, 2005. 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, with the

The following is based on visual observations with no subsurface investigation being in addings and specifications and the unlawful to the state of the state of

Year Built:

Occupancy:

Residential.

Two.

No. of Stories: Dimensions:

- Approximately 3000 square feet.

to make anishout written normiceing from the same without mitten beimission from the the apployal of this blan and specification WHAT VO pe pell to belling or abbrone the Rullling In- Rection Division Molation of any City Ordinance of State 1'3M'

CONSTRUCTION:

Roof:

The roof covering will consist of a Light Weight Concrete Tile over 7/16" solid sheathing. The roof structure is framed with pre-engineered wood trusses spaced at 24" on center. The garage area is framed SSUED with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.

UNDER 15

CILA COSE

SICRAHENTO

CONCLUSIONS:

JUN 2 4 2005

The roof structure currently lacks sufficient structural capacity for the applied live and dead loads bads by Building Division "Recommendations" for location and repair to bring the roof structure up to the required capacity.

7549 MONTE BLAZIL DA #0509180
CITY COPY



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

TEL: 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. Roof Structure:

1. Add a 2x8 DF#2 x 8'-0" long purlin with 2x4 struts to the bearing walls below. The maximum spacing between the struts shall not exceed 6'-0" on center. The unbraced length of the struts shall not exceed 8'-0" and the minimum slope of the struts shall not be less than 45 degrees from the horizontal. See detail 1.

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	<u> </u>
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
2x8 rafters @ 24" oc	<u>1.32</u>	psf
Load	11.3	psf
Roof Pitch Adjustment	<u>1.34</u>	psf
Total Load	12.7	psf

The dead and live load on truss top chord is placed along the length of the top chord. Therefore, the live load is as follows:

Live Load on top chord 14.3

LOCATION; TOP CHORD

MATERIAL		WEIGHT	- -
Light Weight Tile		7.30	psf
Roofing felt		0.30	psf
7/16" OSB/ plywood		1.30	psf
1x4 skip sht'g		1.09	psf
2x4 truss @ 24" oc		<u>0.64</u>	psf
•	Total Load	10.6	psf

LOCATION: BOTTOM CHORD

MATERIAL		<u>WEIGH </u>	<u> </u>
Batt/blown insul		0.50	psf
2x4 truss @ 24" oc		1.28	psf
1/2" Gypboard		<u>2.50</u>	psf
••	Load	4.3	psf

4701 Lakeside Way PAUL ZACHER- STRUCTURAL ENGINEERS, INC. Fair Oaks, Ca 95628 Job #: 05__238 TEL: (916) 961-3960 FAX: (916) 961-6552 Date: 06/20/2005 LOADING: _ 25.4 / 32.0 Rafter: $Dr = 12.7 psf \times 2'-0" = 25.4 plf$ 2x8 #2 _15'-0" Lr = 16.0 psf x 2'-0" = 32.0 plf76 / 96 B1: Dr = 12.7 psf x 6'-0" = 76 plf16'-0" 4x12 #2 Lr = 16.0 psf x 6'-0" = 96 plf

Title : Dsgnr: Description : Job# Date: 4:18PM, 20 JUN 05

Scope:

Rev: 580006 User: KW-0602844, Ver 5.8.0, 1-Dec-2003 (c)1983-2003 ENERCALC Engineering Software

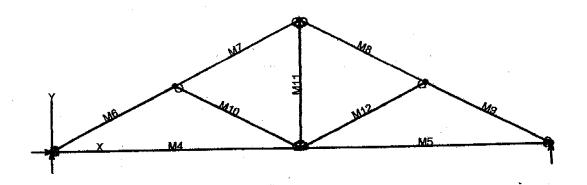
Timber Beam & Joist

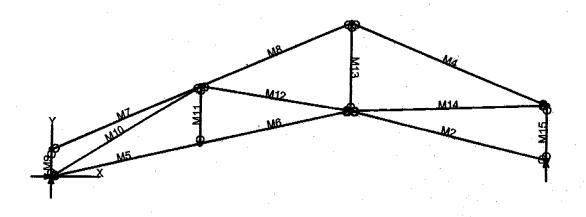
Wong.ecw;Calculations

Description

RAFTERS AND BEAMS

Timber Member Ir	nformation	Code Ref: 1997/20	01 NDS, 2000	/2003 IBC, 2003	NFPA 5000. Base allowables are user defined
		rafter	B1	82	
Timber Section		2x8	4x12	6.75x15	
Beam Width	in	1.500	3.500	6.750	
Beam Depth	in	7.250	11.250	15.000	
Le: Unbraced Length	ft	0.00	0.00	0.00	
Timber Grade		Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Douglas Fir, 24F - V4	
Fb - Basic Allow	psi	875.0	875.0	2,400.0	
Fv - Basic Allow	psi	95.0	95.0	240.0	
Elastic Modulus	ksi	1,600.0	1,600.0	1,800.0	
Load Duration Factor		1.250	1.250	1.250	
Member Type	}	Sawn	Sawn	GluLam	
Repetitive Status		Repetitive	No	No	
Center Span Data					
Span	ft	15.00	16.00	24.00	
Dead Load	#/ft	25.40	76.00	152.00	
Live Load	#/ft	32.00	96.00	192.00	
Results	Ratio =	0.9767	0.7436	0.4169	
Mmax @ Center	in-k	19.37	66.05	297.22	
@ X =	ft	7.50	8.00	12.00	
fb : Actual	psi	1,474.2	894.6	1,174.2	
Fb : Allowable	psi	1,509.4	1,203.1	2,816.2	
	į	Bending OK	Bending OK	Bending OK	
fv : Actual	psi	54.6	46.5	54.8	
Fv : Allowable	psi	118.8	118.8	300.0	·
		Shear OK	Shear OK	Shear OK	
Reactions					
@ Left End DL	lbs	190.50	608.00	1,824.00	
LL	ibs	240.00	768.00	2,304.00	
Max. DL+LL	ibs	430.50	1,376.00	4,128.00	
@ Right End DL	ibs	190.50	608.00	1.824.00	
LL	lbs	240.00	768.00	2,304.00	
Max. DL+LL	lbs	430.50	1,376.00	4,128.00	
Deflections		Deflection OK Def	eflection OK [Deflection OK	
Center DL Defi	in	-0.380	-0.169	-0.332	
L/Defl Ratio		474.2	1,138.4	867.4	
Center LL Defl	in	-0.478	-0.213	-0.419	
L/Defl Ratio		376.4	901.2	686.7	
Center Total Defi	in	-0.858	-0.382	-0.751	
Location	****	-0.000	*0.302	-0.701	
L/Defl Ratio	ft	7.500	8.000	12.000	





VisualAnalysis 3.50.c Report

VISUALANALYSIS 3.30.C REPOIL

09/24/02 15:42:40

Project: Truss 1

File: Untitled.Vap

Company: PK Associates Engineers

Engineer: Paul Zacher

Default Units: Feet, Pounds, Degrees, *Fahrenheit, Seconds.

Nodes

Node	X ft	Y ft	Fix	DX Fir	t D¥	Fix	RZ
N1	0.00	0.00	Yes	Yes		No	
N2	0.00	1.00	No	No		""	
и3	19.00	0.70	"	Yes		"	
N4	11.50	5.75	"	No		"	
N5	11.50	2.50	ir	"	•	"	
N6	19.00	2.70	"	"		"	
N7	5.75	1.25	"	"		,,	
и8	5.75	3.38	. ,,	"		"	

Member Elements

Member	Section	n Material	Length ft
M2	SS2x4	Wood	7,71
M4	"	"	8.10
M5	**	"	5.88
M6	"	11	5.88
M7	"	**	6.22
М8	"	"	6.22
м9	"	ir	1.00
M10	"	rr	6.67
M11	17	. ,,	2.13
M12	"	"	5.82
M13	"	"	3.25
M14	"	"	7.50
M15	"	"	2.00

Section Properties

Category Section	Ax	Iz	Sy+	Sy-
	in^2	in^4	in^3	in^3
Wood Sha SS2x4	5.25	5.36	3.06	3.06

Material Properties

Material	Strength psi	Elasticity psi		Density 1b/ft^3
Wood	-NA-	1700000.00	0.36	40.47

Load Combination Summary

Equation Case: Equation Case 1 Combination: +1D+1L+1Lr

Member Uniform Loads

This item is empty. Check the selection state, or report properties.

Nodal Reactions

Node	Load Case	FX 1bs	FY <i>lbs</i>	MZ lb-ft
N1	Equation Case 1	0.00	599.47	-NA-
N3		-NA-	599.12	-NA-

Member Results

Member	Axial			
	lbs	lbs	lb-ft	in
M2	-7.7400	-32.25	-0.0000	0.0130
"	-2.5800	-10.75	55.1381	-0.0769
77	2.5800	10.7500	55.1381	
	7.7400	32.2500	0.0000	
M4	-980.20	-188.25	-0.0000	
	-929.16	-62.75	337.85	-0.4383
"	-878.12	62.7500	337.85	-0.4637
"	-827.09	188.25	0.0000	-0.0614
м5	1254.95	22.6827	0.0000	-0.0000
" .	1258.54	6.1994	28.2444	-0.0494
"	1262.12	-10.28	24.2386	-0.0802
"	1265.70	-26.77	-12.02	-0.0952
M6	1254.07	26.7673	-12.02	-0.0952
"	1257.65	10.2839	24.2386	-0.1081
<i>"</i>	1261.23	-6.1994	28.2444	-0.1052
77	1264.82	-22.68	0.0000	-0.0837
M7 "	-46.30	112.09	0.0000	-0.0005
"	-6.5570	15.8749	132.19	-0.1094
.#	33.1846	-80.34	65.3417	-0.1241
	72.9263	-176.56	-200.53	-0.0985
м 8	-978.59	176.56	-200.53	-0.0985
"	-938.85	80.3417	65.3417	-0.1504
"	-899.11 -859.37	-15.87	132.19	-0.1620
м9	-039.37 -121.28	-112.09 -0.0000	0.0000	-0.0794 -0.0000
P19	-121.28	-0.0000	-0.0000	0.0003
,,	-121.28 -121.28	-0.0000	-0.0000	0.0006
"		-0.0000	0.0000	0.0009
M(10	-1427.54			
"	-1427.54	-0.0000		
<i>m</i>	-1427.54	-0.0000		
"	-1427.54		0.0000	
M11			-0.0000	0.0300
"			-0.0000	0.0328
"			-0.0000	0.0356
"		-0.0000	0.0000	0.0384
112	-398.59	0.0000		~0.0839
er .	-398.59	0.0000		-0.0796
"	-398.59	0.0000		-0.0754
"	-398.59	0.0000		-0.0711
113	361.66 -	-0.0000	0.0000	~0.0373
"				-0.0329
"	361.66 -	-0.0000	-0.0000	-0.0284

"	361.66 -0.0000 -0.0000 -0.0240
M14	837.37 -0.0000 0.0000 -0.0786
"	837.37 -0.0000 -0.0000 -0.0533
"	837.37 -0.0000 -0.0000 -0.0280
"	837.37 -0.0000 -0.0000 -0.0027
M1.5	-565.95 -0.0000 0.0000 0.0437
**	-565.95 -0.0000 -0.0000 0.0478
**	-565.95 -0.0000 -0.0000 0.0518
<i>"</i>	-565.95 -0.0000 -0.0000 0.0559
	303.33 -0.0000 -0.0000 0.0559

,

BENDING & COMP: TRUSS 1 - MEMBER 4

Design based on 1997 UBC 2321 Division V and ANSI/IPI 1-1995

Grading:

2x or 4x

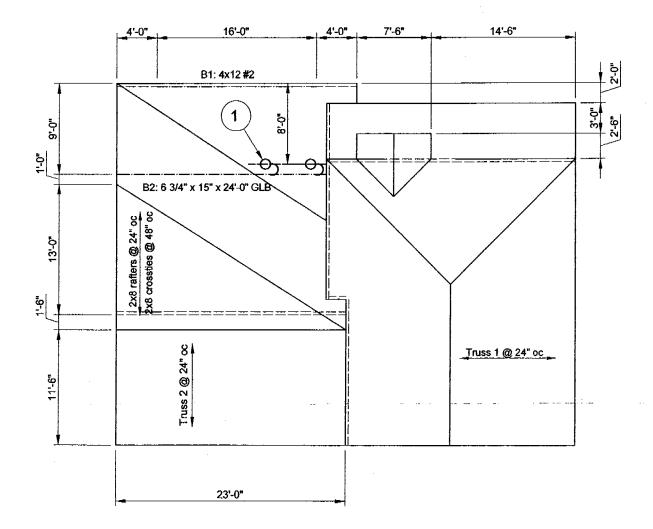
Doug-fir larch: No. 2

Assumptions:

Solid sheathing on top chord of truss. Therefore, continuous lateral support is provided along compression face

Maximum center-center spacing = 24"

Width, b	1.5 inches	
Depth, d	3.5 inches	
Length	8.1 feet	
Max Axial Comp, C	878 feet	
Max Reaction, R	62 lbs	
Max Moment, M	337 ft-lbs	
Max LL Deflection	0.23 feet	
Max TL Deflection	0.46 feet	
LL Defl Criteria = L/	240	
TL Defl Criteria = L/	180	
Duration factor, Cd	1.25	
Repetitive Factor, Cr	1.15	
Size Factor, Cf bending		
Size Factor, Cf comp	1.5 1.5 for 2x4, 1.3 for	2x6
Buckling Factor, CT =	1.15 1.15 for 2x4, 1.1 for	r 2x6
fc =	1.22	
Fce=	167 psi	
Fc*=	809 psi	
F'c=	2084 psi	1
fb=	730 psi	
Fb=Fb*=	1320 psi	
Shear D/C ratio	2156 psi	
Interaction equation:	0.15 < 1.0, Member OK	
(fc/F'c)^2 +		
fb/ (F'b(1-fc/Fce)) =		
	0.82 < 1.0, Member OK	
Live Load defi ratio	0.57 < 1.0, Member OK	
Total Load defl ratio	0.85 < 1.0, Member OK	



FRAMING NOTES:

1. Add a 2x8 DF#2 x 8'-0" long purlin with 2x4 struts to bearing below.

- 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 framing members including rafters, purlins, joists and beams are existing unless otherwise noted in the framing
- notes above.

 C. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.

 D. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.1 "Roof and Ceiling Framing" unless otherwise shown.
- E. All structural wood members that were observed appear to be in sound condition and without structural defect.



