

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 9811652

Insp Area: 2

Site Address: 6460 HARMON DR SAC

Parcel No: 0300092001

Sub-Type: RES

Housing (Y/N): N

CONTRACTOR
ZIMMERMAN ROOFING
3560 RAMONA AV
SACRAMENTO, CA

95826

OWNER
OYSTER STEVER/DONNA L
6460 HARMON DR
SACRAMENTO CA

95831

ARCHITECT

Nature of Work: REMOVE OLD ROOF & REROOF W/PIONEER TILE 4/12 PITCH - SFR - 34SQS

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 C39 License Number 557559 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 _____

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 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.

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 COMP INS FUND

Policy Number 713-98-2021

Exp Date 10/01/1999

_____, (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.



DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1237 I STREET
ROOM 200
SACRAMENTO, CA
95814-3378

Permit Service
916-264-7600
FAX 916-264-7606

Oyster St
6460 Harmon Dr
95831

TILE ROOF WORKSHEET

This worksheet must be filled out whenever any type of tile roof is applied for.

If the answer to question #5 is yes, a written engineering report from a registered engineer must be provided with each application.

1. BRAND AND MODEL OF TILE Pioneer Shake
2. TILE WEIGHT PER SQUARE 730
3. WEIGHT OF ROOF SYSTEM PER SQUARE 180
4. TOTAL WEIGHT OF ROOF SYSTEM 910
5. DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
6. ROOF SLOPE 4/12

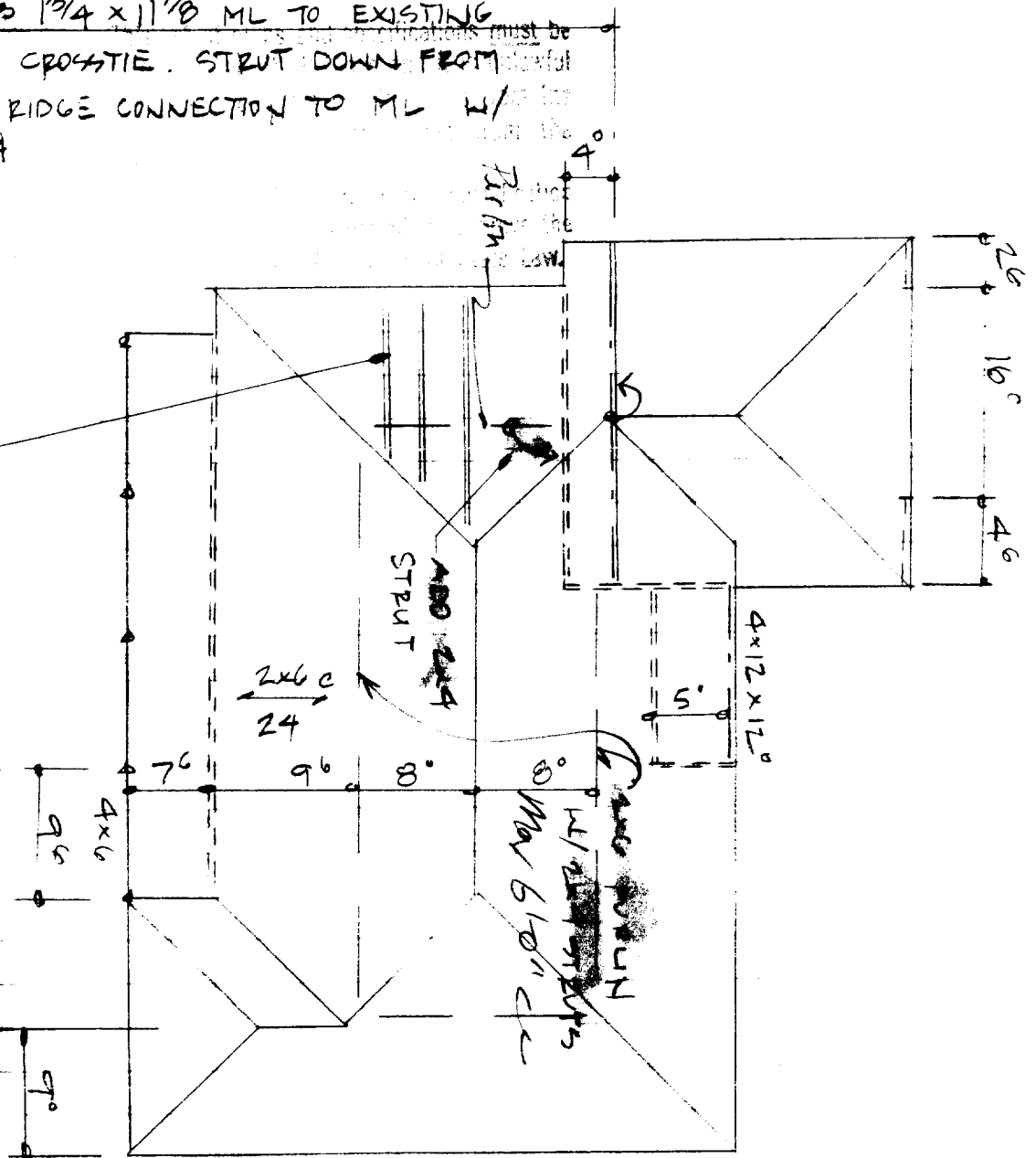
PLEASE PROVIDE A SEPARATE WORKSHEET FOR EACH APPLICATION INVOLVING A TILE ROOF.

See attached engineering Report

SLATS 1 3/4" x 1 7/8" ML TO EXISTING
 2x6 CROSS-TIE. STRUT DOWN FROM
 HIP/RIDGE CONNECTION TO ML W/
 2x4

1 ROOF PLAN - GYSTER
 N.T.S.

SCANS EXT TO EXISTING 2x6 WHERE
 SPAN EXCEEDS 12' (TOTAL 3)



Notes added based on
 engineering report.
 May 2016 re: span.

Reviewed by M.P.P.
 11/25/98



Paul Zacher-Structural Engineers

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Fair Oaks, CA 95628

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FAX: 916.961.3960
e-mail: pzacher@softcom.net

October 20, 1998

Zimmerman Roofing
3560 Ramona Avenue
Sacramento, CA 95826
TEL: 916.454.3667
FAX: 916.455.3784
TEL (Jeff): 916.392.1971
FAX (Jeff): 916.392.6853
FAX (Framer) : 916.383.5308



Attn.: Mr. Jeff Tucker,

re: Job 98267: OYSTER

Subject: Structural Investigation Report of the Roof for the Residence located at 6460 Harmon Drive, Sacramento, CA 95831.

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 October 19, 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.

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 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. 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.

Title :
 Dsgnr:
 Description :

Job #
 Date:

Scope :

Rev 510001

Timber Beam & Joist

Page 1

Description RAFTERS AND BEAMS

Timber Member Information

	2x6	2-2x6	4x12	microlam
Timber Section	2x6	2-2x6	4x12	LVL:1.750x
Beam Width	in 1.500	3.000	3.500	1.750
Beam Depth	in 5.500	5.500	11.250	11.875
Le: Unbraced Length	ft 0.00	2.00	0.00	2.00
Timber Grade	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Truss Joist - MacMil
Fb - Basic Allow	psi 875.0	875.0	875.0	2,600.0
Fv - Basic Allow	psi 95.0	95.0	95.0	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	Repetitive	No	No

Center Span Data

	ft	12.00	15.00	16.00	23.00
Span	ft	12.00	15.00	16.00	23.00
Dead Load	#/ft	23.00	23.00	92.00	
Live Load	#/ft	32.00	32.00	128.00	
Point #1 DL	lbs				690.00
LL	lbs				960.00
@ X	ft		12.000		11.500

Results Ratio =

	Ratio =	0.9607	0.7532	0.9511	0.9036
Mmax @ Center	in-k	11.88	18.56	84.48	113.85
@ X =	ft	6.00	7.50	8.00	11.50
fb: Actual	psi	1,570.9	1,227.3	1,144.3	2,768.1
Fb: Allowable	psi	1,635.2	1,629.5	1,203.1	3,063.4
		Bending OK	Bending OK	Bending OK	Bending OK
fv: Actual	psi	55.7	35.4	59.5	59.5
Fv: Allowable	psi	118.8	118.8	118.8	356.3
		Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End DL	lbs	138.00	172.50	736.00	345.00
LL	lbs	192.00	240.00	1,024.00	480.00
Max. DL+LL	lbs	330.00	412.50	1,760.00	825.00
@ Right End DL	lbs	138.00	172.50	736.00	345.00
LL	lbs	192.00	240.00	1,024.00	480.00
Max. DL+LL	lbs	330.00	412.50	1,760.00	825.00

Deflections

Center DL Defl	in	-0.322	-0.394	-0.204	-0.688
L/Defl Ratio		446.5	457.3	940.4	401.4
Center LL Defl	in	-0.449	-0.548	-0.284	-0.957
L/Defl Ratio		320.9	328.7	675.9	288.5
Center Total Defl	in	-0.771	-0.941	-0.488	-1.644
Location	ft	6.000	7.500	8.000	11.500
L/Defl Ratio		186.7	191.2	393.3	167.9

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. Provide an additional 2x4 strut from the existing purlins to the bearing wall below. The minimum slope of the struts shall not be less than 45 degrees from the horizontal. See detail 1.

Garage:

2. 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 hip/ ridge connection to the microlam beam with 2x4 struts. See detail 1.
3. Scab 2x6 rafters to the existing 2x6 rafters with 16d's @ 12" on center where the span is greater than 12'-3" (total 3). 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