

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 9912115
Insp Area: 2

Site Address: 808 ROYAL GARDEN AV SAC
Parcel No: 030-0083-002

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

CONTRACTOR
WARREN CONSTRUCTION
4746 WALL AVE 27
SACRAMENTO CA 95866

OWNER
I MINTEAR
808 ROYAL GARDEN AV
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: 40 SQ T/O AND REROOF WITH LTWT 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 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 625052 Date 8/01 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 herefrom 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 10/25/99 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 _____ Policy Number _____ 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, 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 10/25/99 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.

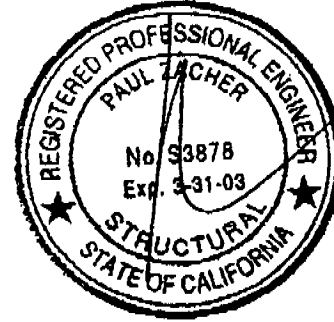
ernardi

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

TEL: 916-961-3980
FAX: 916-961-3980

August 30, 1999

Debernardi
808 Royal Garden Avenue
Sacramento, CA 95831
TEL: (916) 392-8083
FAX: (916) 392-8080



Attn.: Mr. Frank Debernardi,

re: Job 99198: DEBERNARDI

Subject: Structural Investigation Report of the Roof for the Residence located at 808 Royal Garden Avenue, Sacramento, CA 95831.

As requested by Mr. Frank Debernardi, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site August 24, 1999. 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 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 1970's vintage.
Occupancy: Residential.
No. of Stories: One.
Dimensions: Approximately 2500 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 2x8 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 except for the vaulted ceiling areas. The vaulted ceiling is constructed of 4x6 rafters spaced at 32" on center supported at the ridge by a 6x beam. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.

ISSUED

OCT 25 1999

Sacramento Building Division

*Reviewed by Matt P. 10/25/99
see work required, p. 2, 6, 7 & 8.*

WARREN ROOFING



debernardi

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

TEL: 916-961-3960
FAX: 916-961-3960

CONCLUSIONS:**Roof:**

The living area lacks sufficient structural capacity for the applied live and dead loads. The garage has sufficient structural capacity for the applied live and dead loads.

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. Scab a 2x8 DF#2 x 8'-0" long purlin to the existing 2x6 purlin which spans 8'-0". Attach it with 16d's @ 3" on center. Support the 2x12 to the bearing walls below with 2x4 struts. See details 1 and 2.
2. Lag bolt a Steel C12 x 25 x 18'-0" long channel to the existing header over the sliding glass door. See detail 3.

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

DESIGN LOADING:

Roof Pitch 3 in 12
 Pitch Adjustment Factor 1.03

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Light Weight Tile	7.00	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
1/2" OSB/ plywood	1.50	psf
2x8 rafters @ 24" oc	<u>1.32</u>	psf
	Load	11.2 psf
	Roof Pitch Adjustment	<u>0.35</u> psf
	Total Load	11.6 psf

LOCATION: VAULT

<u>MATERIAL</u>	<u>WEIGHT</u>	
Light Weight Tile	7.00	psf
Roofing felt	0.30	psf
1/2" OSB/ plywood	1.50	psf
1x4 skip sht'g	1.09	psf
2x8 rafters @ 24" oc	1.32	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	<u>2.50</u>	psf
	Load	14.2 psf
	Roof Pitch Adjustment	<u>0.44</u> psf
	Total Load	14.7 psf

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

Title :
 Degrn :
 Description :

Job #
 Date: 9:28PM, 30 AUG 99

Scope :

Rev: 01/02
 User: 099-0002844, Ver 5.1.2, 13-Jun-1999, VAWZ
 (c) 1985-99 ENERCALC
Timber Beam & Joist
 c:\enercalc\test\cow\Calculations

Description **RAFTERS AND BEAMS**

Timber Member Information Calculations are designed to 1997 NDS and 1997 UBC Requirements

	rafter 2x6	rafter 2x8	4x12 4x12	purfin 2x8	4x6 beam 4x8	6x12 6x12
Timber Section						
Beam Width	in 1.500	1.500	3.500	1.500	3.500	5.500
Beam Depth	in 5.500	7.250	11.250	7.250	5.500	11.500
Le: Unbraced Length	ft 2.00	2.00	0.00	0.00	0.00	0.00
Timber Grade	Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch,					
Fb - Basic Allow	psi 875.0	875.0	875.0	875.0	1,000.0	1,350.0
Fv - Basic Allow	psi 95.0	95.0	95.0	95.0	95.0	85.0
Elastic Modulus	ksi 1,600.0	1,600.0	1,600.0	1,600.0	1,700.0	1,600.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Sawn	Sawn	Sawn	Sawn	Sawn
Repetitive Status	Repetitive	Repetitive	No	No	No	No

Center Span Data

		11.25	14.25	20.00	8.00	8.00	19.00
Span	ft						
Dead Load	#/ft	23.20	23.20	52.00	48.00	39.00	118.00
Live Load	#/ft	40.00	40.00	80.00	80.00	63.00	160.00

Results Ratio = 0.9888 0.9950 0.9592 0.7019 0.3080 0.7359

Mmax @ Center	in-k	12.00	19.25	85.20	12.10	8.83	150.54
@ X =	ft	5.62	7.12	10.00	4.00	4.00	9.50
f _b : Actual	psi	1,586.5	1,464.9	1,154.0	920.5	500.5	1,241.8
F _b : Allowable	psi	1,604.5	1,472.3	1,203.1	1,312.5	1,625.0	1,687.5
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
f _v : Actual	psi	59.5	57.1	49.3	59.5	25.5	56.6
F _v : Allowable	psi	118.8	118.8	118.8	118.8	118.8	106.3
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End	DL	lbs	130.50	165.30	520.00	184.00	156.00	1,121.00
	LL	lbs	225.00	285.00	900.00	320.00	212.00	1,520.00
	Max. DL+LL	lbs	355.50	450.30	1,420.00	504.00	368.00	2,641.00
@ Right End	DL	lbs	130.50	165.30	520.00	184.00	156.00	1,121.00
	LL	lbs	225.00	285.00	900.00	320.00	212.00	1,520.00
	Max. DL+LL	lbs	355.50	450.30	1,420.00	504.00	368.00	2,641.00

Deflections

Center DL Defl	in	-0.251	-0.282	-0.282	-0.056	-0.044	-0.310
L/Defl Ratio		537.3	605.5	851.9	1,725.9	2,203.4	735.0
Center LL Defl	in	-0.433	-0.487	-0.488	-0.097	-0.059	-0.421
L/Defl Ratio		311.6	351.2	492.2	992.4	1,621.4	542.0
Center Total Defl	in	-0.685	-0.769	-0.769	-0.152	-0.103	-0.731
Location	ft	5.625	7.125	10.000	4.000	4.000	9.500
L/Defl Ratio		197.2	222.3	312.0	630.1	934.1	312.0

4

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

Title :
 Degrn :
 Description :

Job #
 Date: 9:21PM, 30 AUG 99

Scope :

Rev: 010002
 User: E:\V-060284\Net 5,1,2,12-Jun-1999, VHQZ
 (c) 1999-99 CEMERCA/C
Steel Beam Design
 c:\enercalc\test_cow\Calculations

Description C CHANNEL

General information Calculations are designed to AISC 9th Edition ASD and 1997 UBC Requirements

Steel Section : C12X25
 Center Span 18.00 ft
 Left Cant 0.00 ft
 Right Cant 0.00 ft
 Lu : Unbraced Length 0.00 ft
 Pinned-Pinned
 LL & ST Don't Act Together
 Fy 36.00ksi
 Load Duration Factor 1.00
 Elastic Modulus 29,000.0 ksi

Distributed Loads

	#1	#2	#3	#4	#5	#6	#7	
DL	0.000							k/ft
LL	0.100							k/ft
ST								k/ft
Start Location								ft
End Location								ft

Summary Beam OK
Static Load Case Governs Stress

Using: C12X25 section, Span = 18.00ft, Fy = 36.0ksi
 End Fixity = Pinned-Pinned, Lu = 0.00ft, LDF = 1.000

	Actual	Allowable		
Moment	6.480 k-ft	43.200 k-ft	Max. Deflection	-0.090 in
fb : Bending Stress	3.240 ksi	21.600 ksi	Length/DL Defl	6,365.0 : 1
fb / Fb	0.150 : 1		Length/(DL+LL Defl)	2,366.9 : 1
Shear	1.440 k	66.874 k		
fv : Shear Stress	0.310 ksi	14.400 ksi		
fv / Fv	0.022 : 1			

Force & Stress Summary

<<- These columns are Dead + Live Load placed as noted ->>

	Maximum	DL Only	LL @ Center	LL+ST @ Center	LL @ Cants	LL+ST @ Cants	
Max. M +	6.48 k-ft	2.43	6.48				k-ft
Max. M -							k-ft
Max. M @ Left							k-ft
Max. M @ Right							k-ft
Shear @ Left	1.44 k	0.54	1.44				k
Shear @ Right	1.44 k	0.54	1.44				k
Center Defl.	-0.090 in	-0.034	-0.090	-0.034	0.000	0.000	in
Left Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
Right Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
...Query Defl @	0.000 ft	0.000	0.000	0.000	0.000	0.000	in
Reaction @ Left	1.44	0.54	1.44	0.54			k
Reaction @ Rt	1.44	0.54	1.44	0.54			k

Fa calc'd per 1.6-1, K*Lu < Cc

Section Properties C12X25

Depth	12.000 in	Weight	24.97 #/ft	I-xx	4.426 in
Width	3.047 in	I-xx	144.00 in4	I-yy	0.780 in
Web Thick	0.387 in	I-yy	4.47 in4		
Flange Thickness	0.501 in	S-xx	24.000 in3		
Area	7.35 in2	S-yy	1.884 in3		

ROOF PLAN - DEBERNARDI

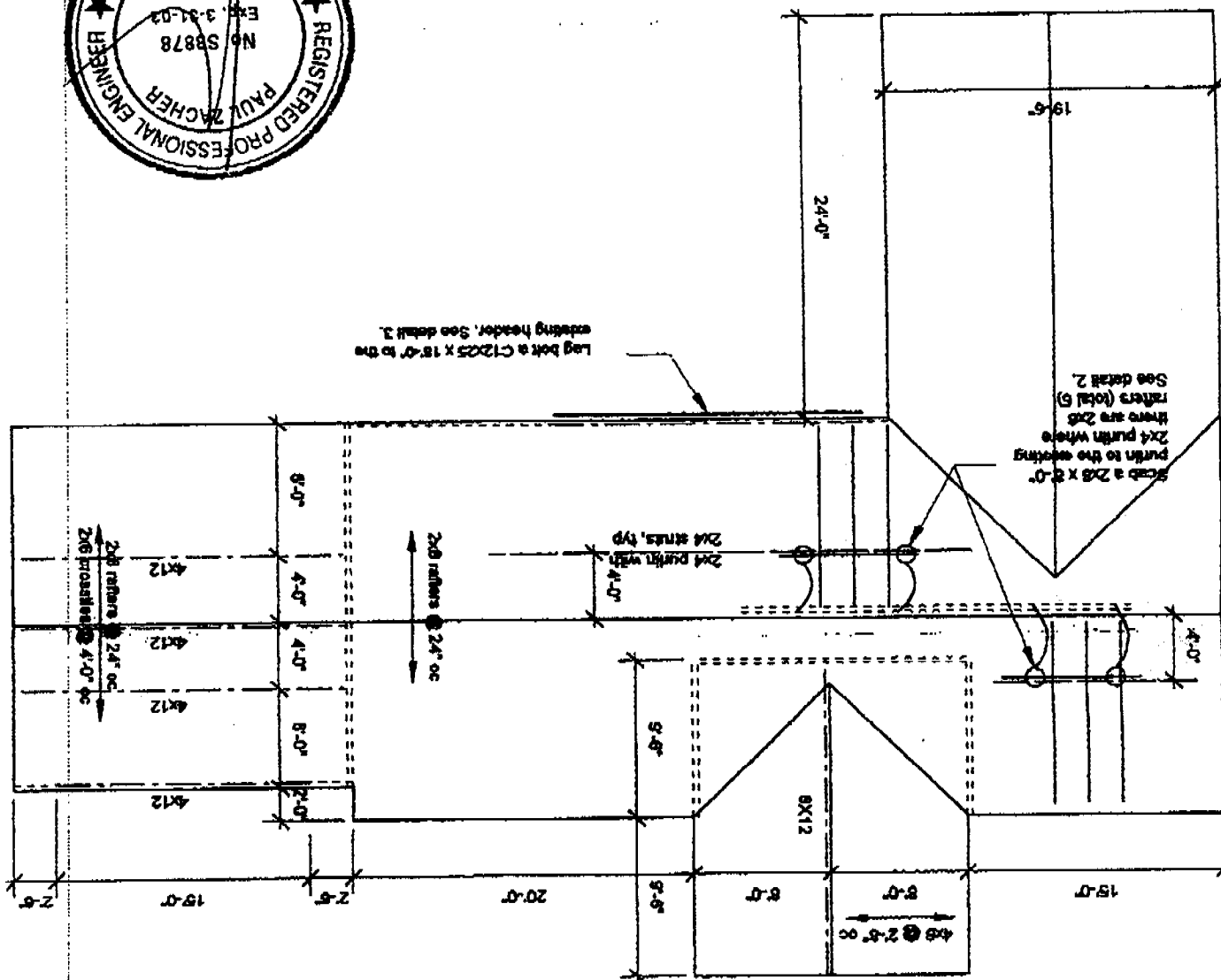
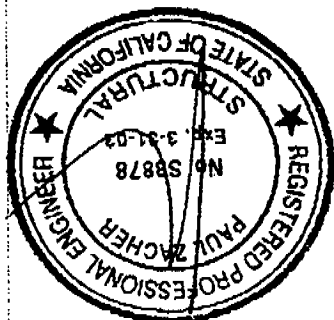
1

Not to Scale

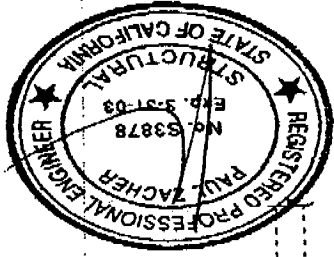
600
400

DZS

- Notes:
1. This is a reroof project. The new roofing material shall be a Light Weight Concrete Tile.
 2. All rafters are 2x6 DF#2 and hips and valleys are 2x10 DF#2 unless otherwise noted.
 3. All existing rafters, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.12 "Roof and Ceiling Framing" unless otherwise shown.
 4. All structural wood members that were observed appear to be in sound condition and without structural defect.



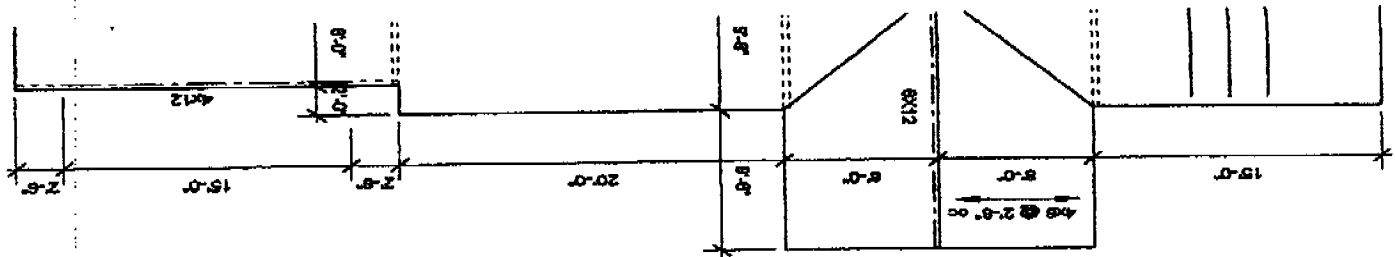
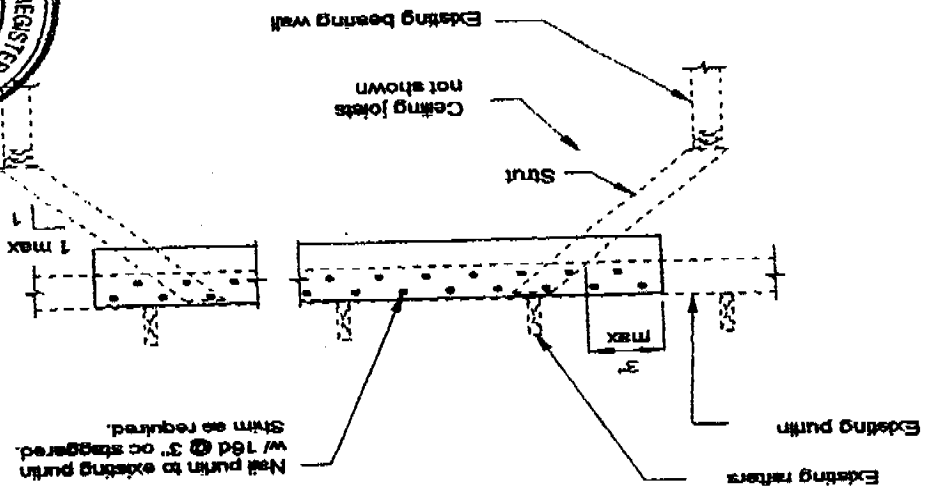
6/8



PURLIN DETAIL

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

2

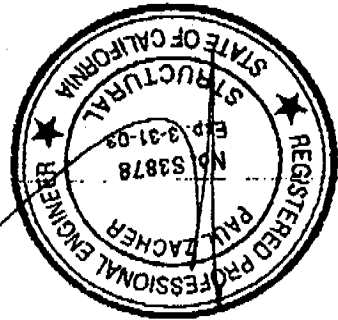
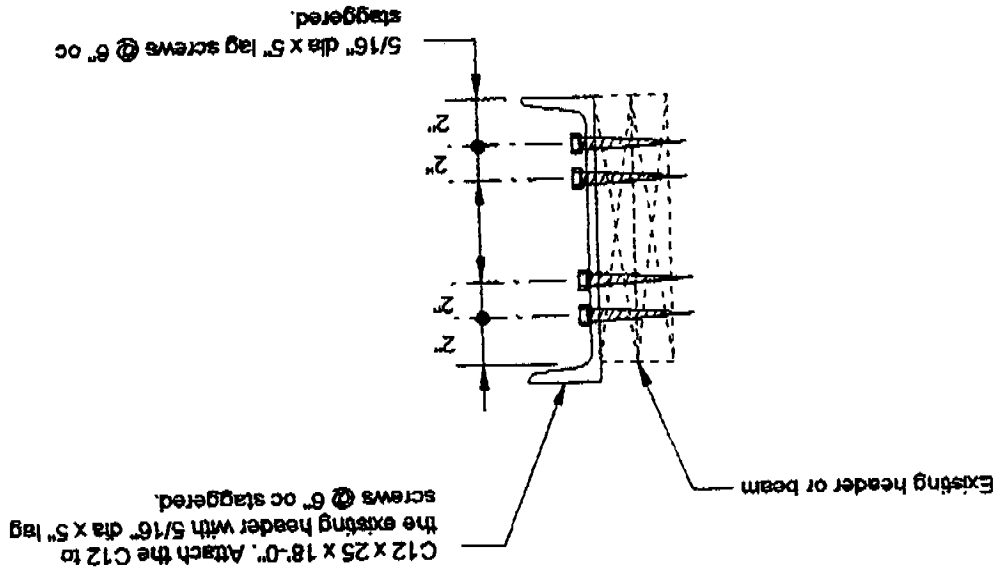


8/7

BEAM
ADJ.
800.00
800.00
1300

8

3
scale: 1 1/2" = 1'-0"
HEADER DETAIL



8/6



CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIVISION
FAXED PERMIT APPLICATION (certain restrictions apply)
Fax # 916-264-1901

DATE: 10/22/99

- Faxed request must be received in this office by 3:00 p.m. to be processed the following work day.
- Note: Contractors must have a current certificate of Worker's Compensation Insurance.
- Note: Work started before a Building Permit is issued will be subject to a fine.
- IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLOWING INFORMATION MUST BE PROVIDED:

JOB ADDRESS: 1600 Parkridge Rd UNIT # _____ CONTRACT PRICE \$ _____

⇒ CONTACT PERSON: Brian Warren ⇒ CONTACT PHONE: 630-9300

Property Owner: Larry Mintegg
 Address: 1600 Parkridge Rd
 City/State/Zip: Sacramento, CA 95822
 Phone: 456-7360

Contractor: Warren Construction Lic. # 625052
 Address: 4946 Watt Ave, #87
 City/State/Zip: Sacramento, CA 95660
 Phone: 630-9300 FAX: 630-1001

NATURE OF REQUEST: Indicate from the selections below

<input checked="" type="checkbox"/> REINROOF (excluding tile) <input checked="" type="checkbox"/> TEAR-OFF <input type="checkbox"/> RESHEAT SQUALES: 31 Material: Heavy wood Shale - Fire Treated <input type="checkbox"/> SIDING <input type="checkbox"/> wood <input type="checkbox"/> vinyl <input type="checkbox"/> stucco	<input type="checkbox"/> HVAC INSTALLATIONS (residential ONLY) <input type="checkbox"/> CHANGE-OUT <input type="checkbox"/> NEW <input type="checkbox"/> Package <input type="checkbox"/> Split system <input type="checkbox"/> Roof mount <input type="checkbox"/> Cut-in Value of duct work: \$ _____ Equipment: \$ _____ Cut-in: \$ _____	<input type="checkbox"/> WATER HEATER (residential ONLY) <input type="checkbox"/> GAS <input type="checkbox"/> ELECTRIC <input type="checkbox"/> Change-out <input type="checkbox"/> Relocate to Gas <input type="checkbox"/> Relocate <input type="checkbox"/> New Cost of equipment: \$ _____	<input type="checkbox"/> MINOR ELECTRIC and/or MINOR PLUMBING (residential ONLY) <input type="checkbox"/> Electric Service Change # amps _____ <input type="checkbox"/> New electric circuits <input type="checkbox"/> Re-write <input type="checkbox"/> Water Service Replacement <input type="checkbox"/> Sewer Service Replacement <input type="checkbox"/> Gas Line Replacement <input type="checkbox"/> Re-plumb	<input type="checkbox"/> PUBLIC UTILITIES SAFETY INSPECTION* (residential and single apartment units ONLY) <input type="checkbox"/> SMUD <input type="checkbox"/> PGE
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DESCRIPTION OF WORK: Residential ReRoof

*NOTE: Correction Notice items will require an additional building permit