

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0514240

Insp Area: 2
Thos Bros: 336F2

Site Address: 14 WINDUBEY CR SAC
Parcel No: 031-0590-039

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

CONTRACTOR

OWNER
LEE CHIN LEUNG/FEE L F
14 WINDUBEY CR
SACRAMENTO, CA 95831

ARCHITECT

Nature of Work: TEAR OFF SHAKE ROOF AND REROOF WITH LT WEIGHT CONCRETE 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 _____ License Number _____ Date _____ 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).

I am exempt under Sec. _____ B & PC for this reason: _____

Date 9-15-05 Owner Signature Lee Chin Leung

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 above mentioned property for inspection purposes.

Date _____ Applicant/Agent 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 9-15-05 Applicant Signature Lee Chin Leung

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.



CITY OF SACRAMENTO

www.cityofsacramento.org
Help Line: 1-916-808-5656 OR 1-866-EZ-PERMIT
Inspection: 1-916-808-7622

Downtown Permit Center
1231 I Street, Suite 200
Sacramento, CA 95814

North Permit Center
2101 Arena Blvd., Suite 200
Sacramento, CA 95834

OWNER BUILDER VERIFICATION

1. Check one below - I or my immediate family (parent, spouse, or child) will perform:

- A - [checked] all the work authorized by this permit.
B - [] a portion of the work.
C - [] none of the work.

CITY OF SACRAMENTO
DOWNTOWN PERMIT CENTER
SEP 15 2005
RECEIVED

If B or C is checked, complete 2 or 3 below.

2. A State licensed contractor (*) will be hired to do:

- [] all of the authorized work. [] a portion of the authorized work.

Name _____ Phone _____

Address _____

Type of Work _____

Name _____ Phone _____

Address _____

Type of Work _____

Name _____ Phone _____

Address _____

Type of Work _____

Name _____ Phone _____

Address _____

Type of Work _____

3. [] I will utilize unlicensed person(s) other than my immediate family to perform all or portions of the authorized work. A Certificate of Workers Compensation must be on file at this office.

I declare under penalty of perjury that the above is true and correct. I have read and understand the owner-builder information on the reverse side of this form.

Signed: Property Owner [Signature]

Date 9-15-05 Case No. _____ Permit No. 0514240

Job Address 14 WINDUBBY CIRCLE SAC

Note: * Information regarding unknown contractors or change in subcontractors shall be submitted to the Building Inspection field office.



CITY OF SACRAMENTO

www.cityofsacramento.org
 Help Line: 1-916-808-5856 OR 1-866-EZ-PERMIT
 Inspection Request: 1-916-808-7622

Downtown Permit Center
 12311 Street, Suite 200
 Sacramento, CA 95814

North Permit Center
 2101 Arena Blvd., Suite 200
 Sacramento, CA 95834

Fax # 916-264-1901

MINOR PERMIT APPLICATION

Date: 9-15-05

Faxed/web request must be received in this office by 3:00 P.M. to be processed the following workday. Contractors must have a current certificate of Worker's Compensation Insurance. Note: Work started before a Building Permit is issued will be subject to quad fee.

Permits requiring Plan Review are not eligible for the MINOR PERMIT PROGRAM

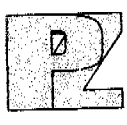
Design Review and Historic Preservation approval may be required if job address is located in those areas (additional forms may be required) AREA 2

IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLOWING INFORMATION MUST BE PROVIDED:

Job Address: 14 WINDMURBY CIRCLE Bldg Type: RESIDENTIAL APARTMENTS (4+ units per building) COMMERCIAL (limited)
 CONTACT INFO Name: CHIN L LEE Phone #: 422-2823 Unit # 2823 Contract Price \$20,000.00
 Property Owner: CHIN L LEE Contractor: _____ License #: _____
 Address: 14 WINDMURBY CIRCLE Address: _____
 City/State/Zip: SAC CA 95831 City/State/Zip: _____
 Phone: 422-2823 Phone: _____ Fax: _____
 Nature of Work: Provide description of work & indicate type of work in selections below. Pre-Registered? YES NO Registration # _____

Description of Work: REROOF FROM SHIP TO LIGHT WEIGHT CONCRET TILE

<input checked="" type="checkbox"/> Reroof (excluding tile) <input checked="" type="checkbox"/> Tear-Off <input checked="" type="checkbox"/> Resheet <input checked="" type="checkbox"/> House <input type="checkbox"/> Garage # Stories: <u>2</u> # Squares: _____ Material: <u>CONCRETE TILE</u> <input type="checkbox"/> Siding <input type="checkbox"/> Wood <input type="checkbox"/> T-111 <input type="checkbox"/> Horiz <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"/> Heat Pump <input type="checkbox"/> Package <input type="checkbox"/> Split system <input type="checkbox"/> Roof mount <input type="checkbox"/> Cut-in <input type="checkbox"/> Heat pump or elect. unit to gas. <input type="checkbox"/> Wall furnace <input type="checkbox"/> Other (describe below) Value of duct work: _____ Equipment: \$ _____ Cut-in: \$ _____	<input type="checkbox"/> Water Heater (Residential Only) <input type="checkbox"/> Electric <input type="checkbox"/> Gas <input type="checkbox"/> Change-out <input type="checkbox"/> Electric to Gas <input type="checkbox"/> Relocate <input type="checkbox"/> New <input type="checkbox"/> Dry Rot or Termit Damage Repair <input type="checkbox"/> Flooring/Joists <input type="checkbox"/> MudSill/Studs <input type="checkbox"/> Roof Structure <input type="checkbox"/> Exterior	<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-wire <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"/> Water <input type="checkbox"/> Waste	<input type="checkbox"/> Public Utilities Safety Inspection (Residential and single apartment units Only) <input type="checkbox"/> SMUD <input type="checkbox"/> PG&E * NOTE * Correction Notice items will require an additional building permit.	Permit #: _____
<input type="checkbox"/> Office Use Only: _____	Parcel #: <u>031-0590039</u>	Date Received: <u>9-15-2005</u>	Date Issued: _____	Processor's Initials: _____	Permit #: _____



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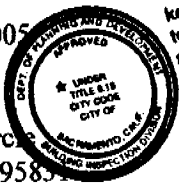
Lee

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

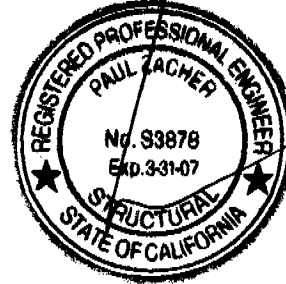
TEL: 916.961.3960
FAX: 916.961.6552

September 11, 2005

Lee
14 Windubey Circle
Sacramento, CA 95831
TEL: (916) 422-2823
FAX:



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from 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 violation of any City Ordinance or State Law.
Approved By: *MAH*
09-15-05



Attn.: Mr. Lee,

re: Job 2005483: LEE

Subject: Structural Investigation Report of the Roof for the Residence located at 14 Windubey Circle, Sacramento, CA 95831.

As requested by Mr. Lee, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site September 2, 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.

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

DESCRIPTION:

Type of Facility: Residence.
Year Built: Estimated 1980's vintage.
Occupancy: Residential.
No. of Stories: One.
Dimensions: Approximately 3000 square feet.

Field verify:
Tile weight 7.3 # SF
Recommendations (required)
on sheet 2 of 9.
AP 10/11/05

CONSTRUCTION:

Roof:
The roof covering will consist of a Light Weight Concrete Tile over 7/16" solid sheathing. The roof structure 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. 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. There is an existing sag in the roof of approximately 1-1/2 inches at various locations. These are due to the original construction.

AP 10/11/05

ISSUED
CITY OF SACRAMENTO

SEP 15 2005

DOWNTOWN PERMIT
CENTER

CITY COPY

1/9



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

TEL: 916.961.3960
 FAX: 916.961.6552

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. Scab a 1 3/4" x 11 1/4" LVL to the existing header. Jack up the existing beam as required where the existing sag occurs to provide an even contour at the roof level before installation of the LVL. See details 1 and 2.
2. Shim the areas as required where the existing sags occur to provide an even contour at the roof level. See detail 1.
3. Provide additional 2x4 struts from the existing purlins to the bearing walls below. The maximum spacing between the new and existing 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.
4. Scab a 2x12 DF#2 x 12'-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 3.
5. Scab a 1 3/4" x 11 7/8" x 16'-0" long LVL to the existing 2x6 purlin which spans 16'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See details 1 and 4.

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.

DESIGN LOADING:

Roof Pitch	6	in 12
Pitch Adjustment Factor	1.12	

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Light Weight Tile	7.30	psf
Roofing felt	0.30	psf
1x4 skip sh't'g	1.09	psf
7/16" OSB/ plywood	1.30	psf
2x6 rafters @ 24" oc	<u>1.00</u>	psf
	Load	11.0 psf
Roof Pitch Adjustment	<u>1.30</u>	psf
Total Load	12.3	psf

Job #: 05_483

Date: 09/11/2005

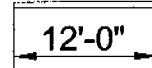
LOADING:

Rafter:

Dr = 12.3 psf x 2'-0" = 24.6 plf
 Lr = 16.0 psf x 2'-0" = 32.0 plf

2x6 #2

24.6 / 32.0

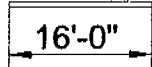


B1:

Dr = 12.3 psf x 12'-0" = 148 plf
 Lr = 16.0 psf x 12'-0" = 192 plf

4x12 #2 + 1-3/4"x11-1/4" LVL

148 / 176

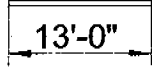


B2:

Dr = 12.3 psf x 7'-0" = 86 plf
 Lr = 16.0 psf x 7'-0" = 112 plf

4x12 #2

86 / 112

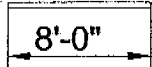


Purlin:

Dr = 12.3 psf x 9'-0" = 111 plf
 Lr = 16.0 psf x 9'-0" = 144 plf

2x12 #2

111 / 144

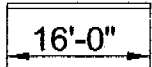


LVL:

Dr = 12.3 psf x 9'-0" = 111 plf
 Lr = 16.0 psf x 9'-0" = 144 plf

1-3/4"x11 7/8" LVL

111 / 144



Paul Zacher Structural Engr's, Inc.
4701 Lakeside Way
Fair Oaks, CA 95628

Title :
Dsgnr:
Description :

Job #
Date: 11:09PM, 11 SEP 05

Scope :

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

Timber Beam & Joist

Lee.ecw:Calculations

Description RAFTERS AND BEAMS

Timber Member Information Code Ref: 1997/2001 NDS, 2000/2003 IBC, 2003 NFPA 5000. Base allowables are user defined

	rafter	B1	B1	purlin	LVL
Timber Section	2x6x12#2+1.75x11.875		4x12	2x12 MicroLam: 1.75x11.	
Beam Width	in 1.500	6.186	3.500	1.500	1.750
Beam Depth	in 5.500	11.250	11.250	11.250	11.875
Le: Unbraced Length	ft 0.00	0.00	0.00	0.00	0.00
Timber Grade	Douglas Fir - Larch, No.2	Custom, DF#2 + LVL	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Truss Joist - MacMillan,
Fb - Basic Allow	psi 875.0	1,450.0	875.0	875.0	2,600.0
Fv - Basic Allow	psi 95.0	1,670.0	95.0	95.0	285.0
Elastic Modulus	ksi 1,600.0	1,666.7	1,600.0	1,000.0	1,900.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Manuf/Pine	Sawn	Sawn	Manuf/Pine
Repetitive Status	Repetitive	Repetitive	No	No	No

Center Span Data

Span	ft	12.00	16.00	13.00	8.00	16.00
Dead Load	#/ft	24.60	148.00	86.00	111.00	111.00
Live Load	#/ft	32.00	176.00	112.00	144.00	144.00

Results Ratio = 0.9887 0.4574 0.5651 0.7074 0.7325

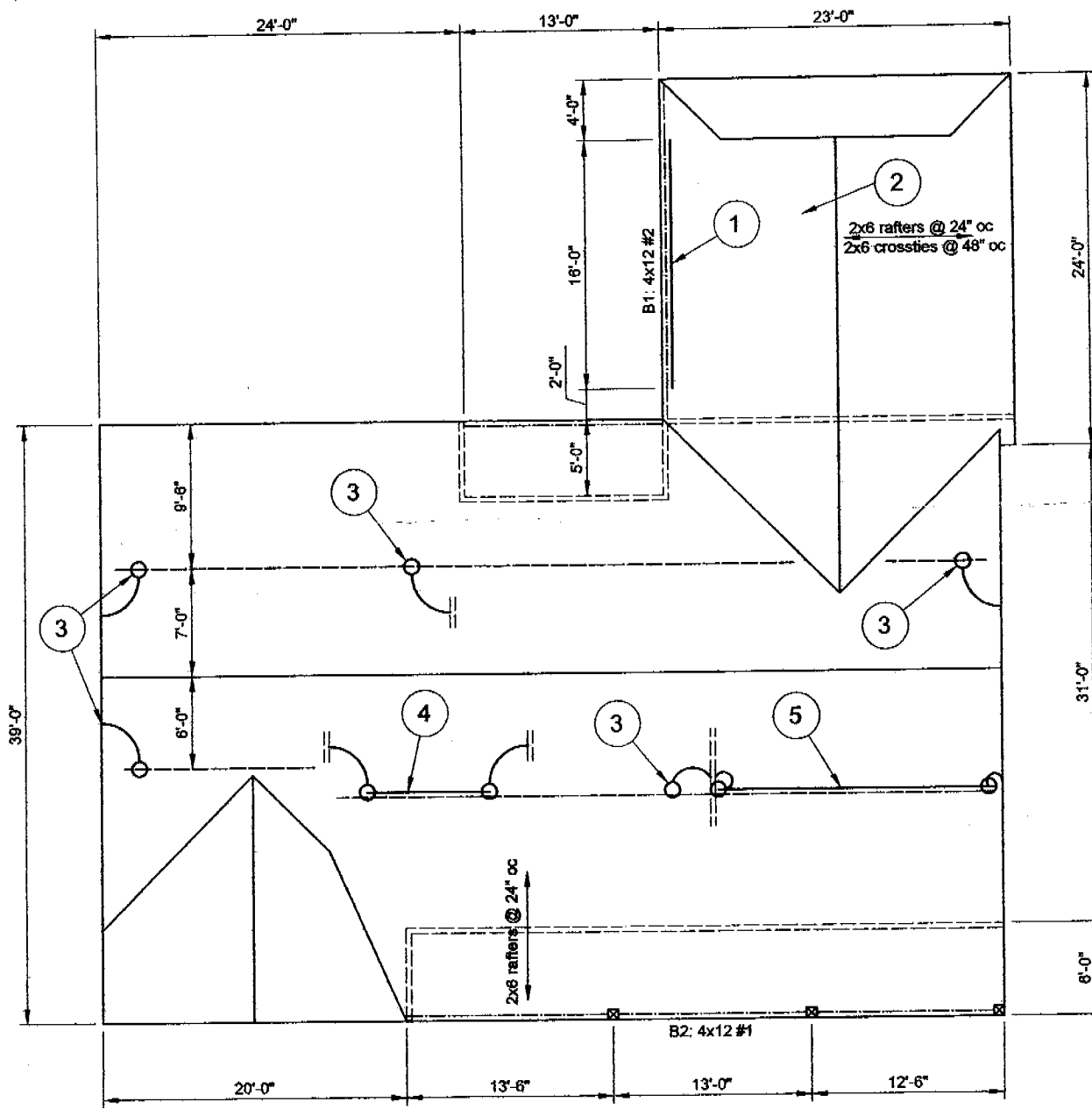
Mmax @ Center	in-k	12.23	124.42	50.19	24.48	97.92
@ X =	ft	6.00	8.00	6.50	4.00	8.00
fb : Actual	psi	1,616.6	953.5	679.9	773.7	2,380.8
Fb : Allowable	psi	1,635.2	2,084.4	1,203.1	1,093.8	3,250.0
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
Fv : Actual	psi	57.3	49.6	42.0	69.6	129.6
Fv : Allowable	psi	118.8	2,087.5	118.8	118.8	356.3
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End	DL	lbs	147.60	1,184.00	559.00	444.00	888.00
	LL	lbs	192.00	1,408.00	728.00	576.00	1,152.00
	Max. DL+LL	lbs	339.60	2,592.00	1,287.00	1,020.00	2,040.00
@ Right End	DL	lbs	147.60	1,184.00	559.00	444.00	888.00
	LL	lbs	192.00	1,408.00	728.00	576.00	1,152.00
	Max. DL+LL	lbs	339.60	2,592.00	1,287.00	1,020.00	2,040.00

Deflections Ratio OK Deflection OK Deflection OK Deflection OK Deflection OK

Center DL Defl	in	-0.345	-0.178	-0.083	-0.036	-0.353
L/Defl Ratio		417.5	1,076.3	1,875.6	2,672.4	544.3
Center LL Defl	in	-0.449	-0.212	-0.108	-0.047	-0.458
L/Defl Ratio		320.9	905.0	1,440.2	2,060.0	419.6
Center Total Defl	in	-0.794	-0.391	-0.191	-0.083	-0.810
Location	ft	6.000	8.000	6.500	4.000	8.000
L/Defl Ratio		181.5	491.6	814.7	1,163.3	236.9



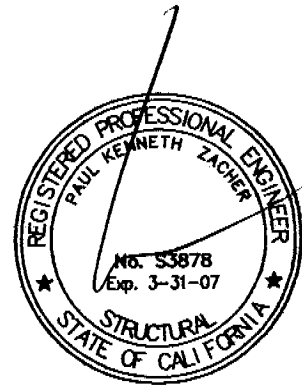
FRAMING NOTES:

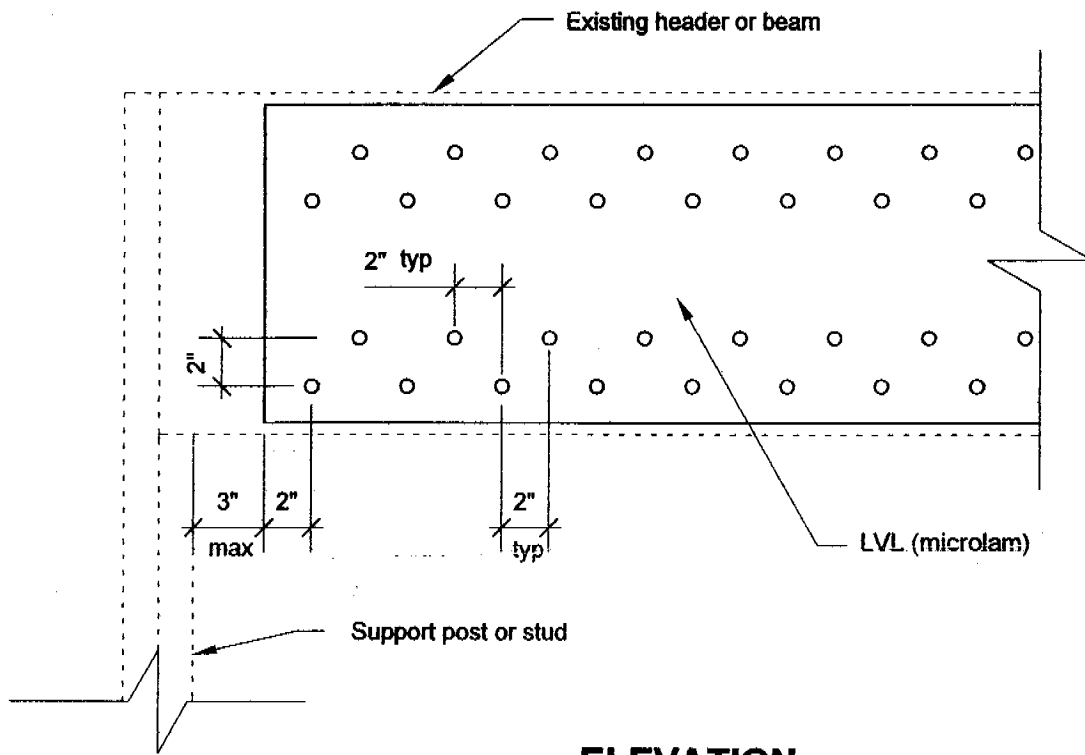
1. Scab a 1 3/4" x 11 1/4" LVL to the existing 4x12 beam. See detail 2.
2. Shim the areas as required where the existing sags occur to provide an even contour at the roof level .
3. Add 2x4 struts to bearing below (total 5).
4. Scab a 2x12 DF#2 x 12'-0" to the existing 2x6 purlin. See detail 3.
5. Scab a 1-3/4" x 11-7/8" x 16'-0" long LVL to the existing 2x6 purlin. See detail 4.

NOTES:

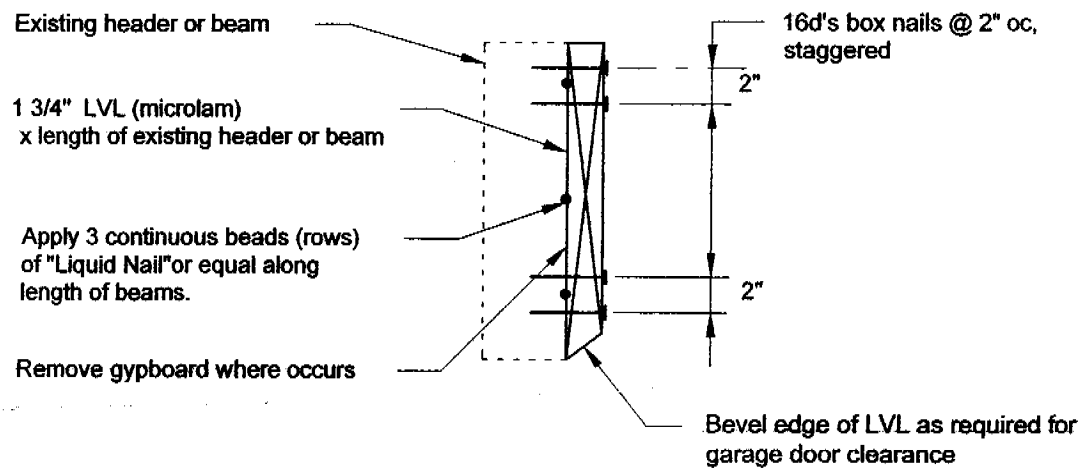
- A. This is a reroof project. The new roofing material shall be a Light Weight Concrete Tile. The tile shall weigh less than or equal to 7.3 psf.
- B. All framing members including rafters, purlins, joists and beams are existing unless otherwise noted in the framing notes above.
- C. All rafters are 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.

1 ROOF PLAN - LEE
Not to Scale





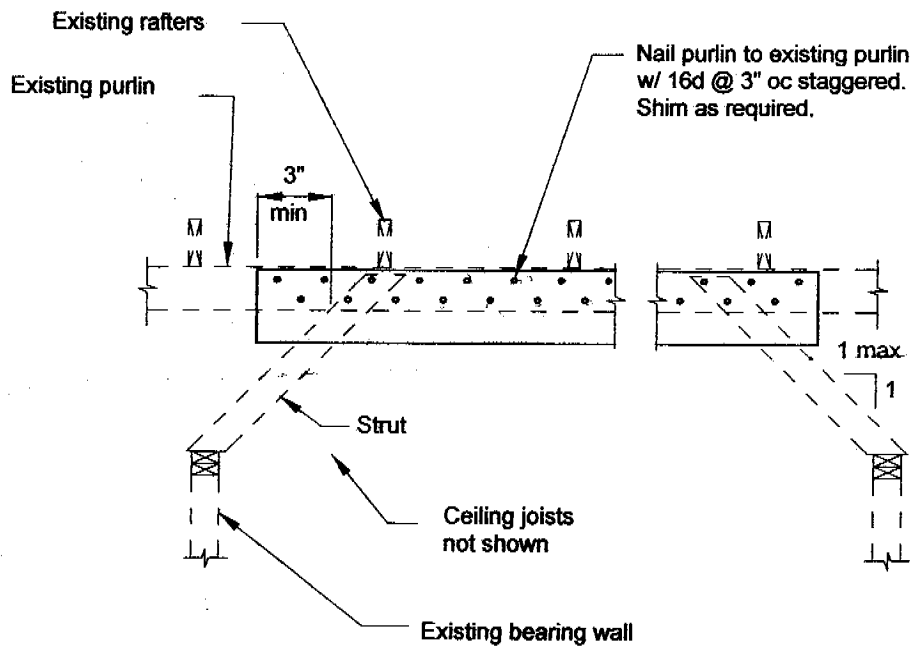
ELEVATION



SECTION

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



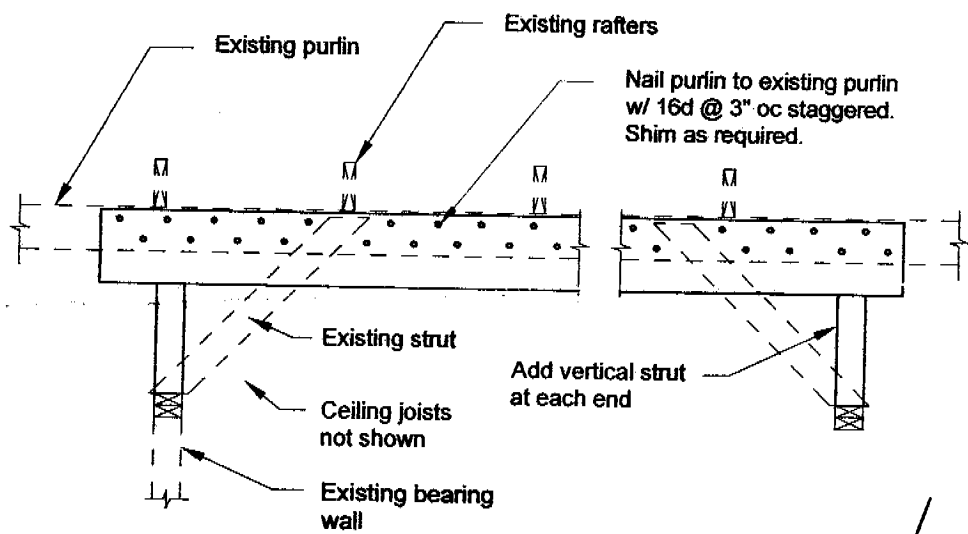


3

PURLIN DETAIL

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





4

PURLIN DETAIL

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

