CITY OF SACRAMENTO 1231 I Street, Sacramento, CA 95814

Permit No: 0109950

Insp Area:

2

Thos Bros: 317B6

Site Address: 1350 47TH AV SAC

Parcer Not

024-0314-001

Sub-Type:

RES

Housing (Y/N): N

<u>COMRACTOR</u>

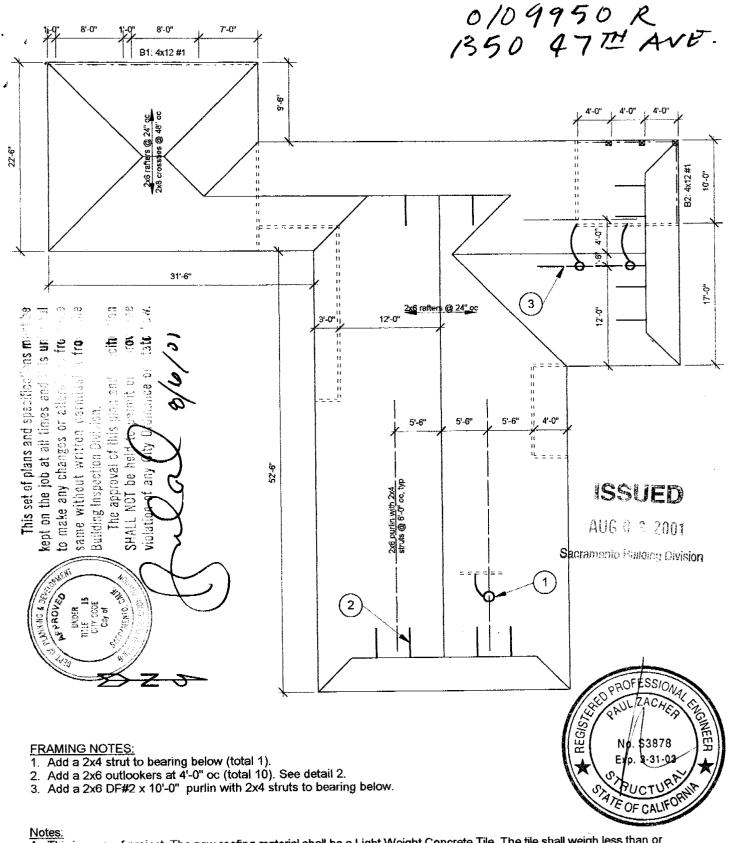
1 OCCURNTRY ROOF No. REPORT PINE AVE S. J. RANENTO CA 95826.

OU NER FL JAMES R & BLUTY Y 3394 4H W SACRAVIENTO CA 95831.

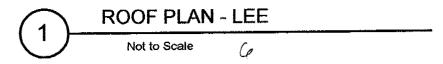
ARCHITECT

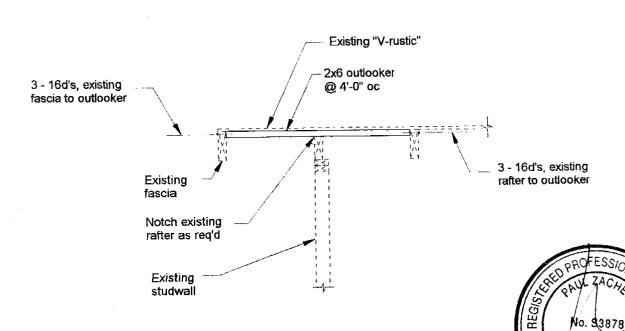
| Licensery Same | CONSTRUCTION LENDING A of the work for which this permit is is: | GENCY: I hereby affirm under penalty of the Geo. 3097. Fig. C. | of perjury that there is a co | onstruction lending age | ncy for the performance | |
|---|---|--|---|--|---|--|
| OWNER-BUILDER DECLARATION: 1 octoos after another penalty of pegury that 1 am exempt to construct, after, improve demolish, orreal affordance, prior to its seames, also requires the applicant for such penalty of pegury that 1 am exempt to construct, after, improve, demolish, orreal affordance, prior to its seames, also requires the applicant for such permit to file a signed statement that he or she is breased pursuant to the provist or the formations (because Law of hapter 9 commenting with section 7000) of Devision 8 of the Business and Professions Code) of that he or she is the sense for the all the provist or the contractors. Exemption 3000 of Devision 8 of the Business and Professions Code) of that he or she is the sense of the Business and Professions Code) of that he or she is the sense of the Business and Professions Code) of that he or she is the sense of the Business and Professions Code) of that he or she is the contractors to the original to the contractors and Professions Code) of the the original to the sense of the Business and Professions Code) of the thorizon of the sense of the profession of the contractors and Professions and Professions and Professions Code) of the profession of t | Lander's Name | Lende | er'sAddress | <u> </u> | | |
| OWNER-BUILDER DECLARATION: The reby additional additional and or penalty of perjuty that I am exempt from the contractors License Law for a standare, print to construct alter, improve, demolish, or real and shadare, print to the sasting alter, improve, demolish, or real and shadare, print to the sasting alter, improve demolish, or real and shadare, print to the sasting alter, improve demolish, or real and the plant of the alleged exemption. No. 18 standard 700 of Division 8 of the Business and Professions Code) or that he or she is updated to the proposed of the contractors License Law (Chapter of Scommencing with section 700) of Division 8 of the Business and Professions Code) or that he or she is updated to the proposed of | LICENSED CONTRACTORS | DECLARATION: Successive affirm undervision 3 of the Business 2.1 Professions Co. | er penalty of perjury that ode and my license is in fu | I am licensed under pll force and effect. | provisions of Chapter | |
| is advange reason (Sec. 2031.5. Business and Professions to one any city or county which requires a permit to construct after, improve, dentistin, or static time prior to its season and professions. Code or that he or she is licensed pursuant to the provision as or the Contractors License. Law of hapter 6 recommending with section 7000 of Drusson 8 of the Business and Professions Code) or that he or she trained and the bases for the alleged exemption. The Estation of Section 7031.5 by any applicant for a permit subjects the applicant to a coperant of not more than five a standard dullar. (8506.6) as a owner of the property, or my employees with wages as then sole compensation, will do the work, and the structure is not intended or offered safe view. 7044, Business and Professional Code. The first attractors License Law does not apply to an owner of property who builds or improvements are not intended or offered as a mowever, the building is improvement is sold within one sear of completion, the owner-builder will have the burden of proving that he/she is to work for the permits of safe. Law owner of the negative aim exclusively contracting outst license to construct the project (Sec. 7044, Business and Profession of the Contractors License Law does not apply to an aware of property who builds or improves therepare the project (Sec. 7044, Business and Profession of the Contractors License Law does not apply to an aware of property who builds or improves therepare the project (Sec. 7044, Business and Profession and Security Projects and Contractors License Law does not apply to an aware of property who builds or improves therepare the project (Sec. 7044, Business and Profession and Security Projects and Securi | | | | | | |
| in sale (See 7044, Bosiness and Professional Cont. The Contractors Freene Law does not apply to an owner of property who builds of influence and who does such work himself to herself to through his ber own employees, provided that such improvements are in thrended or offered so an invested to though this ber own employees, provided that such improvements are intended or offered so an invested or improve for the parabose of sale. Contractors Freeze Law does not apply contracting with incensed contractors to construct the project (Sec. 7044, Business and Professional Law does not apply to an owner of property who builds or improves there in the project (Sec. 7044, Business and Professional Law does not apply to an owner of property who builds or improves there in the project (Sec. 7044, Business and Professional Law does not apply to an owner of property who builds or improves there in the project (Sec. 7044, Business and Professional Law does not apply to an owner of property who builds or improves there is a such projects will be contractored by the Contractors Freeze Section 1997 of the project (Sec. 7044, Business and Professional Contractors) licensed pursuant of the Contractors of the project (Sec. 7044, Business and Professional Contractors) licensed pursuant of the Contractors of the Section 1997 of the Project (Sec. 7044, Business and Professional Contractors) licensed pursuant of the Contractors of the Section 1997 of the Project (Sec. 7044, Business and Professional Contractors) licensed pursuant relating to permissible in project (Sec. 7044, Business and Professional Contractors) licensed pursuant relating to permissible in project (Sec. 7044, Business and Professional Contractors) licensed pursuant relating to permissible in project (Sec. 7044, Business and Section 1997 of the Project Contractors) licensed pursuant relating to permissible in project (Sec. 7044, Business and Professional Contractors) licensed pursuant relating to permissible in project (Sec. 7044, Business and Professional Contractor | to lowing reason (Sec. 7031); Business structure, prior to its issuance, also or the Contractors License Law (Chaes) must therefrom and the basis for the | ess and Professions Code any city or county of requires the applicant for such permit to finger 9 (commencing with Section 7000) of alleged exemption. This isolation of Section 2009, and action of Section 2009. | , which requires a permit le a signed statement that Division 8 of the Busine | to construct, after, imple he or she is licensed pa ess and Professions Co | arsuant to the provision de) or that he or she | |
| This Sting this building onstruction and state that all information is correct. I agree to comply with all city and county ordinances and state that all information is correct. I agree to comply with all city and county ordinances and state that all information is correct. I agree to comply with all city and county ordinances and state I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state I reading to building construction and herby authorize representative city to enter upon the abovementioned property for inspection purposes. Dev. P. C. 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-maint 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 a vorkers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the workers' compensation materials insurance carrier and policy number are: Affect As CASUALLY Policy Number WC24789437 Exp Date 07/01/2002 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 to the workers' compensation provisions of Section 5700 of the Labor Code, I fall forthwith comply with those provisions. | ti sale (Sec. 7044, Business and Pr thereon, and who does such work hin sale of nowever, the building of my | ofessional Code. The Contractors License iself of herself or through his her own employeement is sold within one year of compl | Law does not apply to a lovees, provided that such | an owner of property of improvements are not | wno builds of improve t intended or offered fo | |
| SACRAMENTO Lore exempt under New BAP Contractions a received of the period of the separation of the applicant represents, and the city relies on the representation of the applicant verifical discatories shown on the applicant represents, and the city relies on the representation of the applicant verification of accompanying drawings and the manufacture of the violations shown on the application of accompanying drawings and the manufacture of the violation of any period applicant relating to location of improvements. It write that I have read this application at distant that all information is correct. I agree to comply with all city and county ordinances and state I reading to building construction and herby authorize representative (es) of this city to enter upon the abovementioned property for inspection purposes. Drive Applicant Agent Signature WORKER'S COMPENSATION DECLARATION: I hardely affirm under penalty of perjury one of the following declarations: I have and will maintain workers' compensation insurance, as required 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, carner and policy number are: American Agent State (the permit is issued) I have an different experimentation insurance, carner and policy number are: American Agent State (the permit is issued) I have an different experiment in the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued to employ any person in any manuer so as to become subject to the workers' compensation laws of California and agree that if I should become with the workers' compensation provisions of Section \$700 of the Labor Code, it hall forthwith comply with those provisions. | Choc The Contractors Freeign Law | does not apply a an owner of property who | ntractors to construct the builds or improves there | project (Sec. 7044, B | usiness and Profession for such projects with | |
| IN ISST ING THIS BUILDING PERMIT: the applicant represents, and the city relies on the representation of the applicant serial measurements and locations shown on the applicant or accompanying drawings and interthind of constituted does not violate any convicte agreement relating to permissible a prohibited locations for such improvements. Pais beginning to constitute does not violate any constitute of the violation of any period agreement relating to location of improvements. It was that I have read this application at distate that all information is correct. Lagree to comply with all city and county ordinances and state I cannot building construction and herby authorize representative (s) of this city to enter upon the abovementioned property for inspection purposes. **Does Compensation Declarations: hereby affirm under penalty of perjury one of the following declarations: I save and will maintain a certificate of consent to self-instant for workers' compensation as provided for by Section 3700 of the Labor Code, for performance of work for which the permit is issued **have and will maintain workers' compensation insurance carrier and policy number are: arrier AMERICAN CASUALLY Policy Number WC24789437 Exp Date 07/01/2002 This section need not by completed of the permit is for \$100 or less) Legitify that in the performance of the work for which this permit is issued to the workers' compensation and garee that if I should be considered to the workers' compensation and garee that if I should be considered to the workers' compensation and garee that if I should be considered to the workers' compensation and agree that if I should be considered to the workers' compensation and agree that if I should be considered to the workers' compensation and agree that if I should be considered to the workers' compensation and agree that if I should be considered to the workers' compensation and agree that if I should be considered to the workers' compensation and agree that if I should be considered to th | contractor(s) licensed pursuant to the (| OBTRACTORS (1000SC) (100 | | SACRAMENTO | | |
| IN ISSI ING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant beginning and accompanying drawings and building the profit of the application of accompanying drawings and building applications shown on the application of accompanying drawings and building applications be only violate any or present relating to permissible or prohibited locations for such improvements. This building represents the violation of any present agreement relating to location of improvements. It would that I have read this application at distate that all information is correct. I agree to comply with all city and county ordinances and state I receive that I have read this application at distate that all information is correct. I agree to comply with all city and county ordinances and state I receive that I have read this application at distance and state of this city to enter upon the abovementioned property for inspection purposes. Dev. Applicant Agent Signature WORKER'S COMPENSATION DECLARATION: I seriely affirm under penalty of perjury one of the following declarations: I have and will maintain a certificate of consent to self-onsine 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 a vorkers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work workers begin as permit is issued. We workers' compensation insurance carner and policy number are: Section need not be completed of the permit is for \$100 or less? I certify that in the performance of the work for which this permit is issued to the workers' compensation provisions of Section 3700 of the Labor Code. I shall forthwith comply with those provisions. | Jon exempt under Sec | Box Person mis reason | | | | |
| IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant bed applicant verial aneasurements and locations shown on the application of accompanying drawings and building for the application of accompanying drawings and building for the application of the application of accompanying drawings and building for the application of the application of accompanying drawings and building representation of the violation of any private agreement relating to location of improvements. I write that I have read this application at distate that all information is correct. I agree to comply with all city and county ordinances and state I reading to building construction and herby authorize representative (s) of this city to enter upon the abovementioned property for inspection purposes. Dry 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 consonal to self-onsine for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued have and will maintain a vorkers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work workers permit is issued. We workers' compensation insurance carrier and policy number are: arrier AMERICAN ASUALTY Policy Number WC24789437 Exp Date 07/01/2002 This section need not be completed of the permit is for \$100 or less). I certify that in the performance of the work for which this permit is issued so the workers' compensation provise as as to become subject to the workers' compensation laws of California and agree that if I should become the workers' compensation provise as to become subject to the workers' compensation laws of California and agree that if I should become the workers' compensation provise as to become subject to the workers' compensation provisions. | | exact 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-instanc 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 workers is seen as permit is issued. We workers' compensation insurance carrier and policy number are: American American Astral 19 | or private agreement relating to permit as improvement or the violation of a | ssible or prohibited focutions for such impre- ny private agreement relating to location of tion and state that all information is correc- | improvements. | all city and county of | rdinances and state law | |
| WORKER'S COMPENSATION DECLARATION: A hereby affirm under penalty of perjury one of the following declarations: I have and will maintain a certificate of consent to self-instinc 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 is compensation workers' compensation insurance carrier and policy number are: AMERICAN CASUALTY | | | | | | |
| and will maintain a certificate of consent to self-insinc for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued Thave and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work with this spermit is issued. Moreovers' compensation insurance, carrier and policy number are: Policy Number: WC24789437. Exp. Date: 07/01/2002 This section need not be completed of the permit is for \$700 or less). I certify that in the performance of the work for which this permit is issued that it is completed of the permit is issued to the workers' compensation and 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. | | | | | | |
| Policy Number: WC24789437 Exp Date: 07/01/2002 This section need not be completed of the permit is for \$700 or less). I certify that in the performance of the work for which this permit is issued and 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. | Friave and will maintain a cert | ficule of consem to self-insure for workers' | er penalty of perjury one c compensation as provided | of the following declars I for by Section 3700 o | itions: f the Labor Code, forth | |
| Has section need not be completed of the permit is for \$(00 or less). Legitify that in the performance of the work for which this permit is issued and employ any person a lary 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. | have and will maintain work with the spermit is issued. Moreover, | ters' ex nipensation insurance, as required by ers' compensation insurance carner and poli- | y Section 3700 of the Lab cy number are: | bor Code, for the perfe | ormance of the work for | |
| shalf and employ any person a lary manner so as to become subject to the workers' compensation laws of California and agree that if I should become to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions. | corrier AMERICAN CAS | UAL J.Y Policy Nun | nber WC24789437 | Exp Date | 07/01/2002 | |
| Note 8-6 " Applicant Signature TV 27 | shalf not employ any person a lany r stance to the workers' compensation p | nanner so as to become subject to the world provisions of Section 37(b) of the Labor Cod | cers' compensation laws on e. I shall forthwith comply | of California and agree y with those provisions | that if I should become, | |
| | B-6 75 | Applicant Signature | 41. | | | |

CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPUNSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.



- 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 7.0 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.





DETAIL

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

Lee

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

TEL: 916.961.3960 FAX: 916.961.6552

July 31, 2001

Old Country Roofing 8296 Alpine Avenue Sacramento, CA 95826 TEL: (916) 453-8484 FAX: (916) 453-8487

Attn.: Mr. George Frank,

re: Job 2001 200; LEE



Subject: Structural Investigation Report of the Roof for the Residence located at 1350 47th Avenue, Sacramento, CA 95831.

As requested by Mr. George Frank, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site July 31, 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: Residence.

Year Built:

Estimated 1970's vintage.

Occupancy:

AREU NGCABAMAREONSENSON MEDITONION

Residential.

No. of Stories:

One.

Dimensions:

Approximately 3000 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 except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x6 rafters spaced at 24" on center supported mid-span and 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.

CONCLUSIONS:

Roof:

The garage has sufficient structural capacity for the applied live and dead loads. The living area currently lacks sufficient structural capacity for the applied live and dead loads. See "Recommendations" for location and repair to bring the living area up to the required capacity.

Paul Zacher – Structural Engineers 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.

Living Area:

- 1. Provide an additional 2x4 strut from the existing purlin to the bearing wall 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.
- 2. Add 2x6 out lookers spaced at 4'-0" on center. See details 1 and 2.
- 3. Add a 2x6 DF#2 x 10'-0" long purlin with 2x4 struts to bearing below. 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 | 4 | in 12 |
|-------------------------|------|-------|
| Pitch Adjustment Factor | 1.05 | |

LOCATION: ROOF

| MATERIAL | WEIGHT | |
|-----------------------|---------------|-----|
| 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 |
| 2x6 rafters @ 24" oc | 1.00 | psf |
| Load | 10.9 | psf |
| Roof Pitch Adjustment | 0.59 | psf |
| Total Load | 11.5 | psf |

| P.K. Zacher, S.E. | | | 4701 Lakeside Way Fair Oaks, CA 95628 |
|-------------------|------------|-----------|--|
| Job#: 01 - 200 | ····· | | TEL: (916) 961-3960 |
| Date: 7/51/61 | | | FAX: (916) 961-6552 |
| LOADING | | | |
| PAFTER | | | 12/02 |
| Dp : 11,5 psf x 2 | , 200 p. E | 2 × 0 * 2 | 3720 |
| Lp: 16.0 ! - ! | | | |
| UZ 10:10 | | | |
| | | | 127/174 |
| <u> </u> | | | |
| DR: 11.5 PJFx 110 | | 4-12 -2 | . 80 |
| Lp: 16.0 ' ' | 176 | | - |
| | | | 40/04 |
| 62 | | | |
| Dp. 11.5 p.6 < 4 | = 46 px | 4<12#2 | . 10 ° |
| Lp= 16.0. | : 64. | | |
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| | Page: | 4 | |
| | | | |

- Paul Zacher - Structural Engineers

4701 Lakeside Way

Fair Oaks

TEL: (916) 961-3960 FAX: (916) 961-6552 Title: Dsgnr: Description :

Job# Date: 1:05PM, 31 JUL 01

Scope:

Pey: 510304 User: KW-0602844, Ver 5.1.3, 22-Jun-1999, Win32 (c) 1983-99 ENERCALC

Timber Beam & Joist

c:\enercalc\test.ecw:Calculations

Description

RAFTERS AND BEAMS

| Timber Member II | nforma | tion | | Calculatio | ns are designed to 1997 NDS and 1997 UBC Requirements |
|----------------------|--------------------------|---------------------|---------------|------------------|---|
| | | rafter | B1 | B2 | |
| Timber Section | 1 | 2x6 | 4x12 | 4x12 | |
| Beam Width | in | 1.500 | 3.500 | 3,500 | |
| Beam Depth | in | 5.500 | 11.250 | 11.250 | |
| Le: Unbraced Length | ft | 0.00 | 0.00 | 6.00 | |
| Timber Grade | | ouglas Fir - Larch, | | | |
| Fb - Basic Allow | psi | 875.0 | 1,000.0 | 1,000.0 | |
| Fv - Basic Allow | psi | 95.0 | 95.0 | 95.0 | |
| Elastic Modutus | ksi | 1,600.0 | 1,700.0 | 1,700.0 | |
| Load Duration Factor | j | 1.250 | 1.250 | 1,250 | |
| Member Type | | Sawn | Sawn | Sawn | |
| Repetitive Status | | Repetitive | No | No | |
| Center Span Data | | | | | |
| Span | ft | 12.00 | 8.00 | 10.00 | |
| Dead Load | #/11 | 23.00 | 127.00 | 46.00 | |
| Live Load | #/ft | 32.00 | 176.00 | 64.00 | |
| | | | | | 100 |
| Results | Ratio = | 0.9607 | 0.2986 | 0.1652 | |
| Mmax @ Center | in-k | 11.88 | 29.09 | 16,50 | |
| @ X ≃ | ft | 6.00 | 4.00 | 5.00 | |
| fb : Actual | psi | 1,570,9 | 394.0 | 223.5 | |
| Fb : Allowable | psi | 1,635.2 | 1,375.0 | 1,352.8 | |
| | P-0. | Bending OK | Bending OK | | |
| fv : Actual | : | 55.7 | 35.5 | 17.1 | |
| Fv : Allowable | psi | 33,7 118,8 | 30.5 118.8 | 17.1 118.8 | |
| rv . Alluwable | psi | Shear OK | Shear OK | | |
| Reactions | | | | | |
| @ Left End DL | lbs | 138.00 | 508.00 | 230.00 | |
| LL LL | lbs | 192.00 | 704.00 | 320.00 | |
| Max. DL+LL | ibs | 330.00 | 1,212.00 | 550.00 | |
| @ Right End DL | 1 | | • | | |
| | lbs | 138.00 | 508.00 | 230.00 | |
| LL Max. DL+LL | ibs | 192.00 330.00 | 704.00 | 320.00 550.00 | |
| | lbs | | 1,212.00 | | |
| Deflections | va alikkina ukromovni il | | Deflection OK | Deflection OK | |
| Center DL Defl | in | -0.322 | -0.017 | -0.015 | |
| L/Defl Ratio | | 446.5 | 5,790.7 | 8,185.5 | |
| Center LL Defl | in | -0.449 | -0.023 | -0.020 | |
| L/Defl Ratio | | 320.9 | 4,178.5 | 5,883.3 | |
| Center Total Defi | in | -0.771 | -0.040 | -0.035 | |
| Location | ft | 6.000 | 4.000 | 5.000 | |
| L/Defl Ratio | | 186.7 | 2,427.1 | 3,423,0 | |