

CITY OF SACRAMENTO

Permit No: 9904937

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 7275 BAYVIEW WY SAC

Sub-Type: RES

Parcel No: 031-0410-080

Housing (Y/N): N

CONTRACTOR

ZIMMERMAN ROOFING
3560 RAMONA AV
SACRAMENTO CA 95826

OWNER

CHANG DORA P
199 CRESTVIEW CT
WATSONVILLE CA 95076-2793

ARCHITECT

Nature of Work: 22 SQ TEAR OFF AND REROOF WITH PIONEER 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 C39 License Number 557559 Date 00/02 Contractor Signature Alma Delia Gonzalez

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 5-17-99 Applicant/Agent Signature Alma Delia Gonzalez

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:

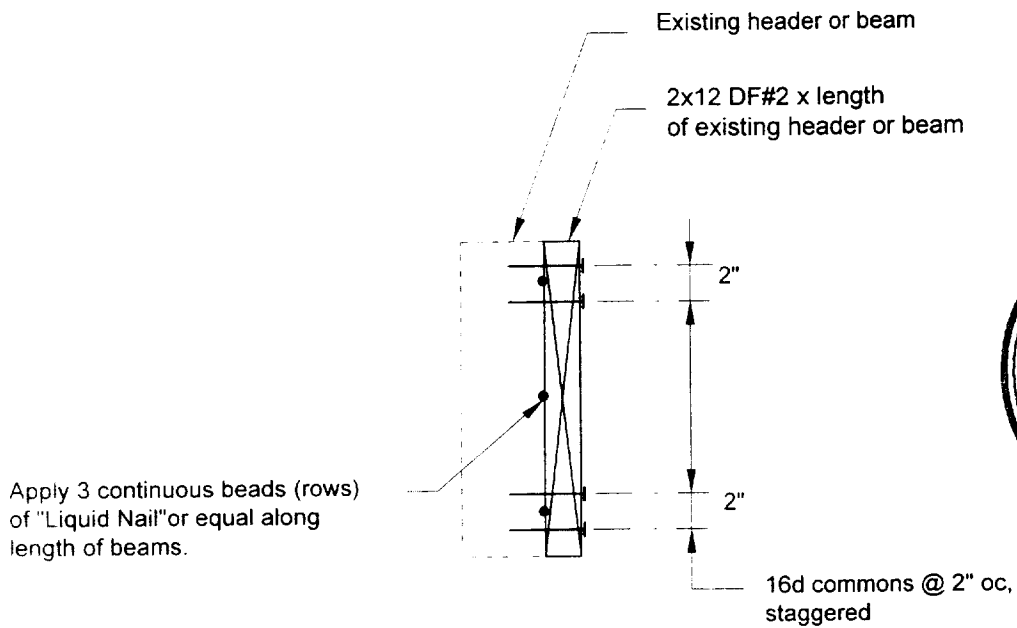
Carrier STATE COMP INS FUND Policy Number 713-98-2021 Exp Date 10/01/1999

(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 5-17-99 Applicant Signature Alma Delia Gonzalez

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 A ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.



2

HEADER DETAIL

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

Reviewed by M.H.P. 5/17/99

12

7275 Bayview

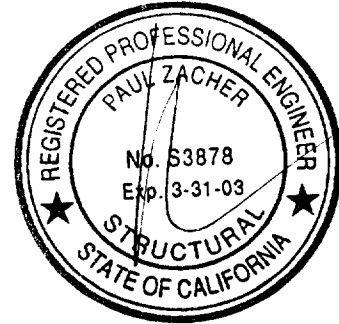
Fong-Taylor

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

TEL: 916.961.3960
FAX: 916.961.3960

May 5, 1999

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 99089 FONG / TAYLOR

Subject: Structural Investigation Report of the Roof for the Duplex located at 723 Zephyr Ranch and 7275 Bayview Way, 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 on April 29, 1999 and May 5, 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 1994 Uniform Building Code.

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

DESCRIPTION:

Type of Facility: Duplex.
Year Built: Estimated 1970's vintage.
Occupancy: 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 Pioneer Light Weight Concrete Tile over 1/2" solid sheathing.
The living and garage areas are framed with wood pre-engineered trusses spaced at 24" on center.

1/12

Hong-Taylor

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

TEL: 916.961.3960
FAX: 916.961.3960

CONCLUSIONS:

Roof

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

Garage

1. Scab a 2x12 DF#2 x 16'-0" long beam to the existing 4x12 garage header and nail together with 16d's @ 2' oc staggered. See details 1 and 2.

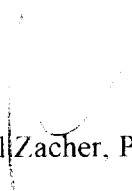
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and 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	4	in 12
Pitch Adjustment Factor	1.05	

LOCATION: TOP CHORD

<u>MATERIAL</u>	<u>WEIGHT</u>	
Pioneer Light Weight	7.00	psf
Roofing felt	0.30	psf
1/2" OSB/ plywood	1.50	psf
1x4 skip sht'g	1.09	psf
2x4 truss @ 24" oc	<u>1.28</u>	psf
	Load	11.2 psf
Roof Pitch Adjustment	<u>0.60</u>	psf
Total Load	11.8	psf

LOCATION: BOTTOM CHORD

<u>MATERIAL</u>	<u>WEIGHT</u>	
Batt/blown insul	0.50	psf
2x4 truss @ 24" oc	0.64	psf
1/2" Gypboard	<u>2.50</u>	psf
	Load	3.6 psf

Timber Beam & Joist

Description BEAMS

Timber Member Information

		4x12 + 2x12
Timber Section		6x12
Beam Width	in	5.000
Beam Depth	in	11.250
Le - Unbraced Length	ft	2.00
Timber Grade		Douglas Fir - Larch
Fb - Basic Allow	psi	875.0
Fv - Basic Allow	psi	95.0
Elastic Modulus	ksi	1,600.0
Load Duration Factor		1.250
Member Type		Sawn
Repetitive Status		No

Center Span Data

Span	ft	15.25
Dead Load	#/ft	161.00
Live Load	#/ft	168.00

Results Ratio = 0.9973

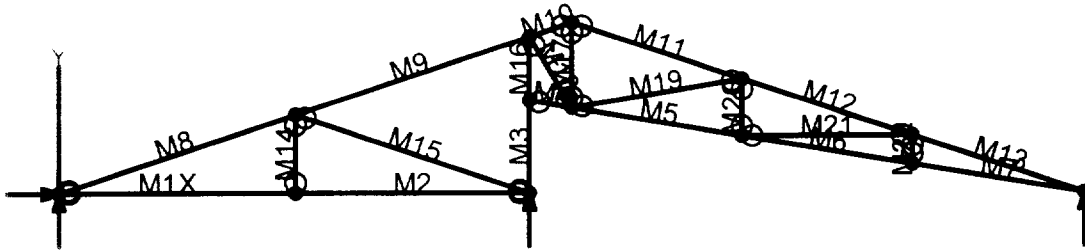
Mmax @ Center	in-k	114.77
@ X =	ft	7.62
f _b - Actual	psi	1,088.2
F _b - Allowable	psi	1,091.1
		Bending OK
f _v - Actual	psi	58.9
F _v - Allowable	psi	118.8
		Shear OK

Reactions

@ Left End	DL	lbs	1,227.62
	LL	lbs	1,281.00
	Max. DL+LL	lbs	2,508.62
@ Right End	DL	lbs	1,227.62
	LL	lbs	1,281.00
	Max. DL+LL	lbs	2,508.62

Deflections

Center DL Defl	in	-0.206
L/Defl Ratio		886.6
Center LL Defl	in	-0.215
L/Defl Ratio		849.7
Center Total Defl	in	-0.422
Location	ft	7.625
L/Defl Ratio		433.9



VisualAnalysis 3.50.c Report

Project

File: C:\Program Files\IES\VA35\Untitled.vap
 Company: IES Associates Engineers
 Engineer: Paul Gacher
 Units: Feet, Pounds, Degrees, Fahrenheit, Seconds.

Nodes

Node	X ft	Y ft	Fix	DX ft	Fix	DY ft	Fix	RZ
N1	0.00	0.00	Yes	Yes	No			
N2	4.75	0.00	No	No				
N3	12.00	0.00		Yes				
N4	18.00	3.25		No				
N5	18.00	3.00						
N6	24.00	2.00						
N7	31.00	1.00						
N8	34.00	0.00		Yes				
N9	8.75	2.75		No				
N10	18.00	5.50						
N11	18.00	6.00						
N12	24.00	4.00						
N13	31.00	2.00						

Member Elements

Member	Section	Material	Length ft	Weight lbs	Theta deg
M1	2x4	Wood	8.25	12.17	0.00
M2	"	"	8.25	12.17	0.00
M3	"	"	3.25	4.79	0.00
M4	"	"	1.52	2.24	0.00
M5	"	"	6.08	8.97	0.00
M6	"	"	6.08	8.97	0.00
M7	"	"	6.08	8.97	0.00
M8	"	"	8.70	12.83	0.00
M9	"	"	8.70	12.83	0.00
M10	"	"	1.58	2.33	0.00
M11	"	"	6.32	9.33	0.00
M12	"	"	6.32	9.33	0.00
M13	"	"	6.32	9.33	0.00
M14	"	"	2.75	4.06	0.00
M15	"	"	8.70	12.83	0.00
M16	"	"	2.25	3.32	0.00
M17	"	"	3.00	4.43	0.00
M18	"	"	2.92	4.30	0.00
M19	"	"	6.08	8.97	0.00
M20	"	"	2.00	2.95	0.00
M21	"	"	6.00	8.85	0.00
M22	"	"	1.00	1.48	0.00

Section Properties

Category	Section	Ax in ²	Iz in ⁴	Sy+ in ³	Sy- in ³
Wood	2x4	5.25	5.36	3.06	3.06

Material Properties

Material	Strength ksi	Elasticity ksi	Poisson	Density lb/ft ³	Therm. /F
AL-3	44	1700.00	0.36	40.47	0.00

VisualAnalysis 3.50.c Report

Project

File: C:\Program Files\IES-VA\5\Untitled.vap
 Company: Associates Engineers
 Author: J. J. Lasher
 Default Units: Feet, Pounds, Degrees, Fahrenheit, Seconds.

Load Cases

Load Case	Strength	Service	Results
1 Service Case 1	No	No	None
2 Service Case 1	"	"	"
3 Equipment Case 1	"	"	1st Ord

Service Load Cases

Load Case	Load Source	Self Weight	Loads
Service Case	Dead loads	None	
Service Case	Roof Live 1	"	

Load Combination Summary

Equation Case: Equation Case 1

Combination: +1D+1L+1Lr+1R+1W+1S+1E+1H+1F+1TS+1T+1TC+1I+1U+1LE

Contributing Cases & Source

Service Case 1 (Dead loads)
 Service Case 2 (Roof Live loads)

Equation Case Combinations

Load Case	Cases Equation	
Equation Case	0.00	0.00

Member Uniform Loads

Load Case	Member	Direction	Offset ft	End Off ft	Magnitude
Service Case	M1	DY proj.	0.00	8.25	-0.01 K/ft
"	M2	"	0.00	8.25	-0.01 K/ft
"	M4	"	0.00	1.52	-0.01 K/ft
"	M5	"	0.00	6.08	-0.01 K/ft
"	M6	"	0.00	6.08	-0.01 K/ft
"	M7	"	0.00	6.08	-0.01 K/ft
"	M8	"	0.00	8.70	-0.02 K/ft
"	M9	"	0.00	8.70	-0.02 K/ft
"	M10	"	0.00	1.58	-0.02 K/ft
"	M11	"	0.00	6.32	-0.02 K/ft
"	M12	"	0.00	6.32	-0.02 K/ft
"	M13	"	0.00	6.32	-0.02 K/ft
Service Case 1	M8	"	0.00	8.70	-0.03 K/ft
"	M9	"	0.00	8.70	-0.03 K/ft
"	M10	"	0.00	1.58	-0.03 K/ft
"	M11	"	0.00	6.32	-0.03 K/ft
"	M12	"	0.00	6.32	-0.03 K/ft
"	M13	"	0.00	6.32	-0.03 K/ft

VisualAnalysis 3.50.c Report

12/11/2014 11:14:14 AM

Project

File: Program Files\IES\VA35\Untitled.vap
 Company: K&K Associates Engineers
 Engineer: Paul Gardner
 Default Units: Feet, Pounds, Degrees, Fahrenheit, Seconds.

Load Cases

Load Case	Strength	Service	Results
1 Service Case 1	No	No	None
2 Service Case 2	"	"	"
3 Equivalent Case 1	"	"	1st Ord

Member Extreme Results

Member	Fx(lc) K	Fy(lc) K	Mz(lc) K-ft	fc max(lc) ksi	fc min(lc) ksi	Dx(lc) in	Dy(lc) in
M1	0.42(3)	-0.04(3)	-0.05(3)	0.16(3)	-0.04(3)	0.00(3)	-0.08(3)
"	0.42(3)	0.03(3)	0.04(3)	0.36(3)	0.16(3)	0.01(3)	-0.00(3)
M2	0.42(3)	-0.03(3)	-0.05(3)	0.16(3)	-0.04(3)	0.01(3)	-0.08(3)
"	0.42(3)	0.04(3)	0.04(3)	0.36(3)	0.16(3)	0.02(3)	-0.00(3)
M3	0.49(3)	-0.06(3)	-0.18(3)	-0.17(3)	-0.89(3)	-0.00(3)	-0.02(3)
"	0.49(3)	-0.06(3)	-0.00(3)	0.55(3)	-0.17(3)	-0.00(3)	0.07(3)
M4	0.42(3)	-0.02(3)	-0.02(3)	-0.04(3)	-0.11(3)	-0.06(3)	-0.06(3)
"	0.42(3)	-0.01(3)	0.00(3)	0.02(3)	-0.04(3)	-0.06(3)	-0.01(3)
M5	0.46(3)	-0.02(3)	-0.02(3)	0.26(3)	0.16(3)	-0.06(3)	-0.24(3)
"	0.46(3)	0.02(3)	0.01(3)	0.35(3)	0.26(3)	-0.05(3)	-0.06(3)
M6	0.44(3)	-0.01(3)	-0.02(3)	0.48(3)	0.25(3)	-0.05(3)	-0.35(3)
"	2.45(3)	0.03(3)	0.05(3)	0.68(3)	0.45(3)	-0.03(3)	-0.24(3)
M7	0.44(3)	-0.02(3)	0.05(3)	0.65(3)	0.09(3)	-0.03(3)	-0.34(3)
"	0.44(3)	0.03(3)	0.10(3)	0.84(3)	0.28(3)	-0.01(3)	-0.00(3)
M8	0.48(3)	-0.26(3)	-0.38(3)	-0.18(3)	-1.64(3)	-0.01(3)	-0.40(3)
"	0.48(3)	0.17(3)	0.30(3)	1.34(3)	-0.16(3)	-0.00(3)	-0.00(3)
M9	0.42(3)	-0.21(3)	-0.38(3)	0.05(3)	-1.49(3)	-0.01(3)	-0.11(3)
"	0.42(3)	0.22(3)	0.12(3)	1.49(3)	-0.04(3)	-0.01(3)	-0.00(3)
M10	0.42(3)	0.06(3)	-0.15(3)	-0.02(3)	-0.62(3)	-0.01(3)	-0.05(3)
"	0.42(3)	0.14(3)	-0.00(3)	0.56(3)	-0.02(3)	-0.01(3)	-0.00(3)
M11	0.46(3)	-0.19(3)	-0.21(3)	-0.01(3)	-0.86(3)	0.02(3)	-0.24(3)
"	0.46(3)	0.12(3)	0.16(3)	0.80(3)	-0.01(3)	0.02(3)	-0.04(3)
M12	0.47(3)	-0.14(3)	-0.21(3)	-0.24(3)	-1.09(3)	0.01(3)	-0.36(3)
"	0.47(3)	0.18(3)	0.10(3)	0.57(3)	-0.29(3)	0.02(3)	-0.23(3)
M13	-2.59(3)	-0.16(3)	-0.09(3)	-0.47(3)	-1.14(3)	-0.01(3)	-0.34(3)
"	2.48(3)	0.16(3)	0.17(3)	0.18(3)	-0.48(3)	0.01(3)	-0.00(3)
M14	0.47(3)	0.00(3)	0.00(3)	0.01(3)	0.01(3)	0.06(3)	0.01(3)
"	0.47(3)	0.00(3)	0.00(3)	0.01(3)	0.01(3)	0.06(3)	0.01(3)
M15	0.43(3)	0.00(3)	0.00(3)	-0.18(3)	-0.18(3)	0.02(3)	-0.05(3)
"	0.43(3)	0.00(3)	0.00(3)	-0.18(3)	-0.18(3)	0.03(3)	0.01(3)
M16	0.43(3)	-0.16(3)	-0.18(3)	-0.15(3)	-0.90(3)	-0.01(3)	0.01(3)
"	0.43(3)	0.16(3)	0.17(3)	0.54(3)	-0.20(3)	-0.00(3)	0.07(3)
M17	0.42(3)	-0.00(3)	-0.00(3)	-0.00(3)	-0.00(3)	0.05(3)	-0.07(3)
"	0.42(3)	-0.00(3)	0.00(3)	-0.00(3)	-0.00(3)	0.05(3)	0.01(3)
M18	0.42(3)	-0.00(3)	-0.00(3)	0.11(3)	0.11(3)	-0.00(3)	0.01(3)
"	0.42(3)	-0.00(3)	0.00(3)	0.11(3)	0.11(3)	-0.00(3)	0.09(3)
M19	0.42(3)	-0.00(3)	-0.00(3)	-0.24(3)	-0.24(3)	-0.09(3)	-0.22(3)
"	0.42(3)	-0.00(3)	0.00(3)	-0.24(3)	-0.24(3)	-0.08(3)	-0.04(3)
M20	0.44(3)	-0.00(3)	-0.00(3)	0.04(3)	0.04(3)	0.23(3)	-0.09(3)
"	0.44(3)	-0.00(3)	0.00(3)	0.04(3)	0.04(3)	0.23(3)	-0.05(3)
M21	0.42(3)	-0.00(3)	-0.00(3)	-0.20(3)	-0.20(3)	-0.10(3)	-0.33(3)
"	0.42(3)	-0.00(3)	0.00(3)	-0.20(3)	-0.20(3)	-0.09(3)	-0.23(3)
M22	0.42(3)	0.00(3)	-0.00(3)	0.01(3)	0.01(3)	0.33(3)	-0.10(3)
"	0.42(3)	0.00(3)	0.00(3)	0.01(3)	0.01(3)	0.33(3)	-0.09(3)

BENDING & COMP: TRUSS 1; MEMBER 13

Buckling Factor, CT is
neglected due to small contribution

Grading:

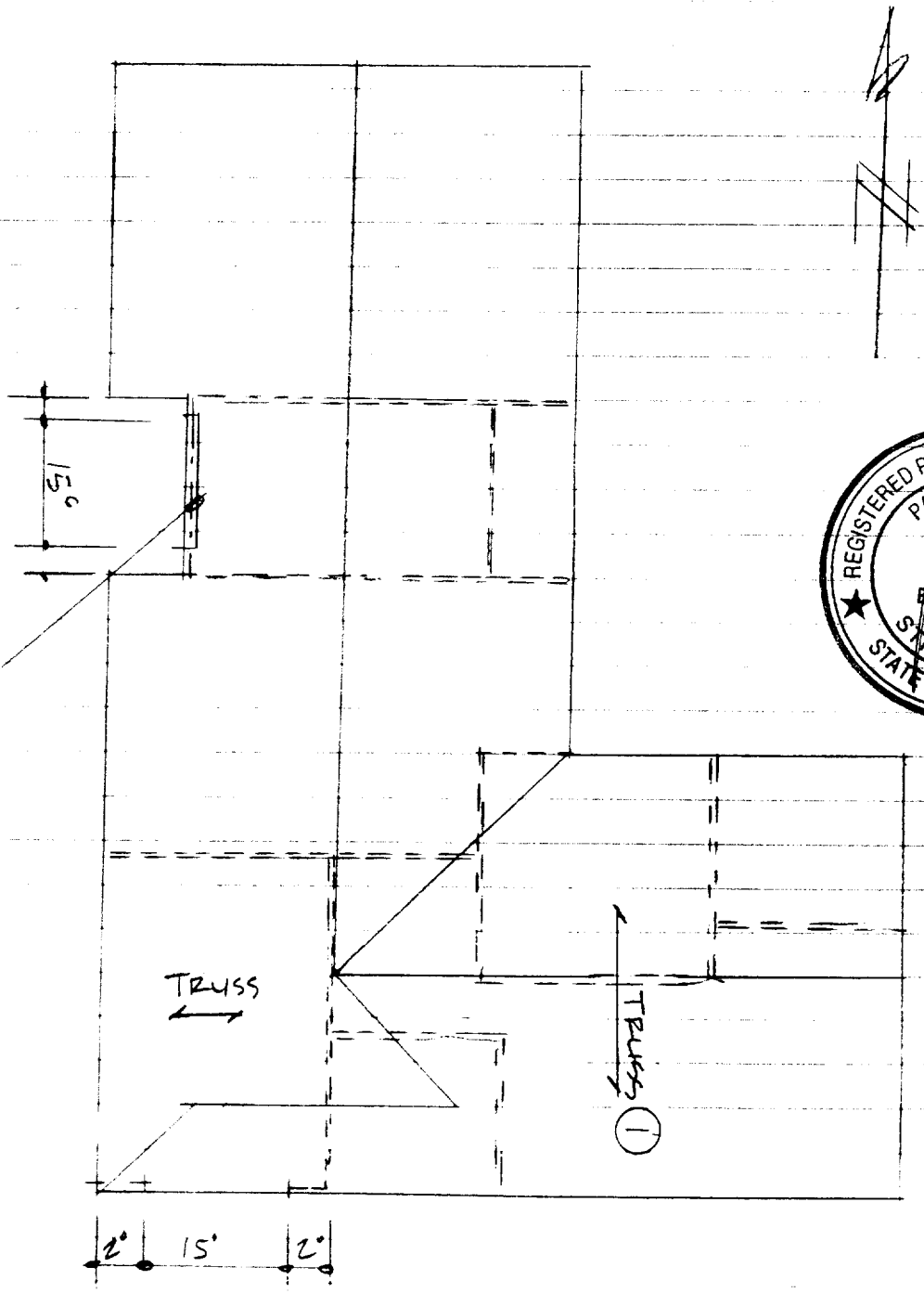
2x or 4x Doug-fir larch: No. 2

Assumptions:

Lateral support at points of bearing
SPS or gypboard attached to compression face
Maximum center-center spacing = 24"

Width, b	1.5 inches
Depth, d	3.5 inches
Length	6.32 feet
Max Axial Comp. C	2590 lbs
Max Reaction, R	160 lbs
Max Moment, M	90 ft-lbs
Max LL Deflection	0.19 inches
Max TL Deflection	0.34 inches
LL Defl Criteria = L/240	240
TL Defl Criteria = L/180	180
Duration factor Cd	1.25
Repetitive Factor Cr	1.15
fc =	493 psi
Fce =	1597 psi
Fc*	1094 psi
F'c =	879 psi
fb =	29 psi
F'b =	1258 psi
Shear D/C ratio	0.38 < 1.0, Member OK
Interaction equation: (fc/F'c) ² +	
fb/(F'b(1-fc/Fce)) =	0.35 < 1.0, Member OK
Live Load defl ratio	0.60 < 1.0, Member OK
Total Load defl ratio	0.81 < 1.0, Member OK

① ROOF PLAN - TAYLOR WING
N.T.S.



SCAB 2x12x16' TO EXISTING
4x12 HEADER ②





DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1231 I STREET
ROOM 200
SACRAMENTO, CA
95814-2998

Permit Services
916-264-7619
FAX 916-264-7066

W.C. Taylor
1275 Bayview

TILE ROOF WORKSHEET

75831

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.

BAND AND MODEL OF TILE Pioneer Lite weight
TILE WEIGHT PER SQUARE 7.30 lbs
HEIGHT OF ROOF SYSTEM PER SQUARE 1.80 lbs
TOTAL WEIGHT OF ROOF SYSTEM 9.10 lbs
DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
ROOF SLOPE 4/12

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

All attached engin. reports