

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0011606
Insp Area: 2

Site Address: 6770 RIPTIDE WY SAC
Parcel No: 030-0670-042

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

CONTRACTOR
FRED B CURTIS
7475 14TH AV
SACRAMENTO CA 95820

OWNER
YEE LIM K/HELEN L
6684
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: DUPLEX T/O REROOF W 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 159577 Date 9/29/00 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

____ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

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

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 9/29/00 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 LEGION INSURANCE COMPANY Policy Number WC1203179 Exp Date 11/11/2000

____ (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 9/29/00 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.

5716
Kim

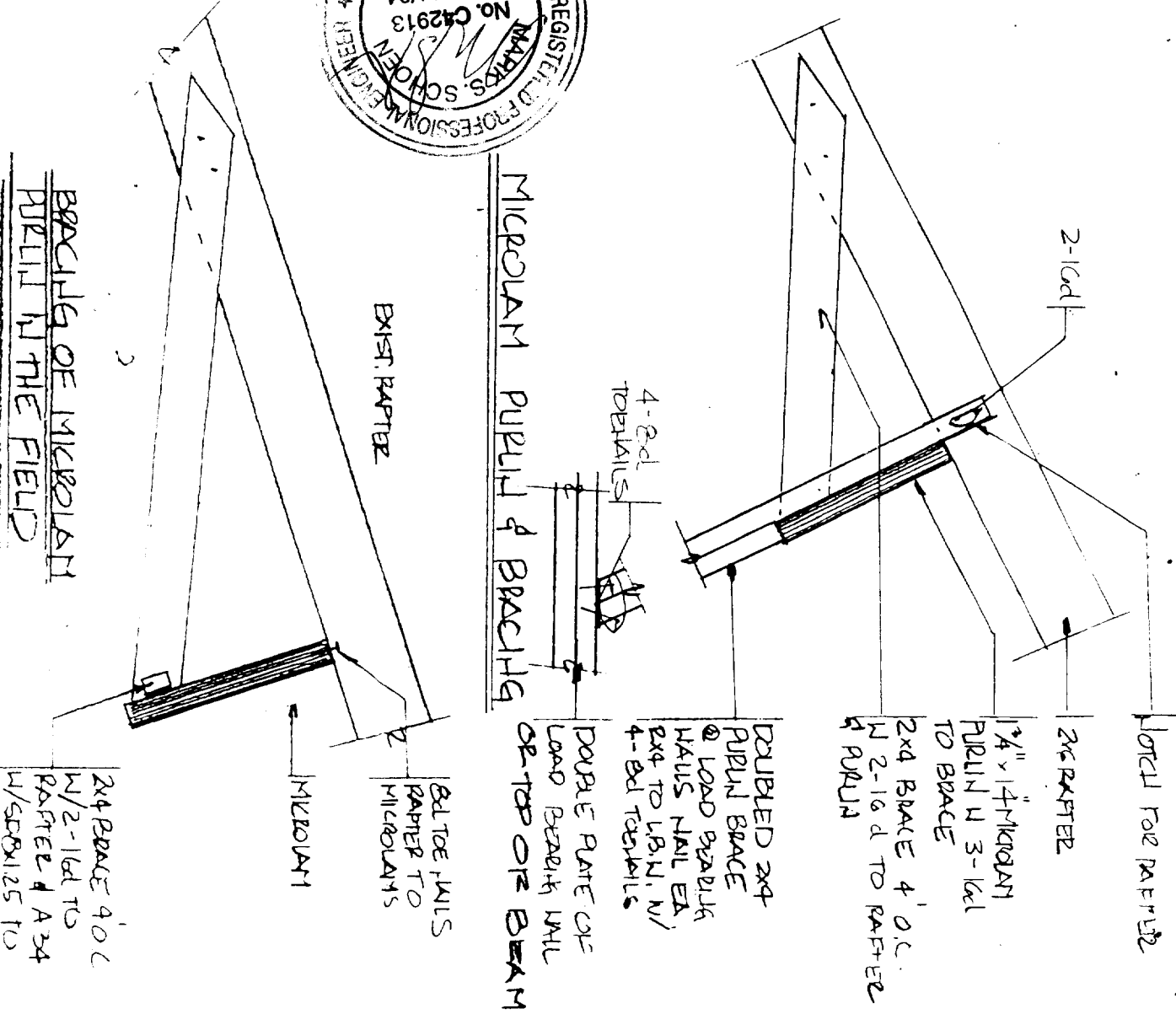


This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Department.
SHALL NOT BE USED FOR ANY OTHER VIOLATION OF ANY CITY ORDINANCE.

ISSUED

SEP 29 2000

Sacramento Building Division



BRACING OF MICROLAM PURLIN IN THE FIELD

MICROLAM PURLIN & BRACING

EXIST. RAFTER

MICROLAM

2x4 BRACE 4 O.C.
N 2-16 d TO
RAFTER & A 2x4
N/SCB 125 TO
MICROLAM

Bd TOE NAILS
RAFTER TO
MICROLAM

DOUBLE PLATE OF
LOAD BEARING WALL
OR TOP OF BEAM

DOUBLE 2x4
PURLIN BRACE
@ LOAD BEARING
WALLS NAIL EA.
2x4 TO L.B.N.N./
4-2x4 TO BEAMS

2x4 BRACE 4 O.C.
N 2-16 d TO RAFTER
& PURLIN

1/4" x 1 1/2" MICROLAM
PURLIN N 3-16 d
TO BRACE

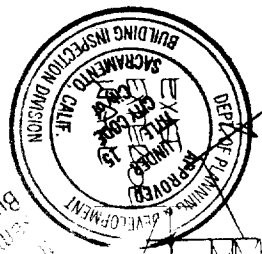
2x4 RAFTER

10x4 FOR RAFTER

BRST 2x10
RAFTER

EXIST 2x6
GAVNEL
TIE

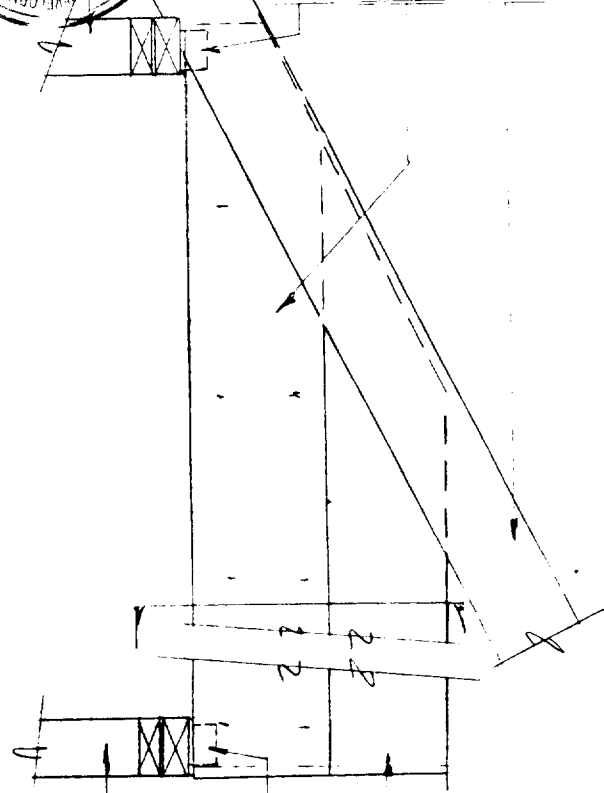
A-35 CLIP
(ON BACK
SIDE)



DEPT. OF PLANNING & DEVELOPMENT
SACRAMENTO, CALIF.
APPROVED
DATE: 10/15/04
BY: [Signature]

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SHALL NOT BE USED TO PERMIT OR SPECIFY ANY VIOLATION OF ANY ORDINANCE OR SPECIFICATION.

GARAGE ROOF
SUPPORT BEAM



2-1/4" x 11/8" MICROLATHS (MAY BE TRIMMED)
HALF TOGETHER (TO CLEAR ROOF LINE)
2-ROWS (each side of wall)

INTERIOR
FIRE WALL

2x4 BRACE FOR PURLIN,
RAFTER, RIDGE, VALLEY,
OR HIP RAFTER
NOTCHED & ANKLED
W/A 3/4" CLIP

2-1/4" x 11/8"
MICROLATHS



BRACE TOP OF MICROLATH
& 4" O.C. FROM OTHER
STRUCTURE & ANCHOR W/A 3/4"

NOTE: BRACE MAY
TIE IN FROM THE SIDE
OR GO OVER THE TOP
OF THE MICROLATH

30" OR LESS
2x4 BRACE



L126 JOIST
HANGER W/6-16
TIE RODS

NOTE: AS WITH RYBU AND
RIDGE BRACE, VALLEY & HIP
RAFTER BRACES SHOULD
PROVIDE DIRECT BEARING SUPPORT
(SEE PURLIN BRACE DETAILS)



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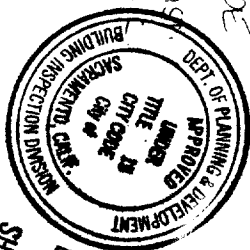
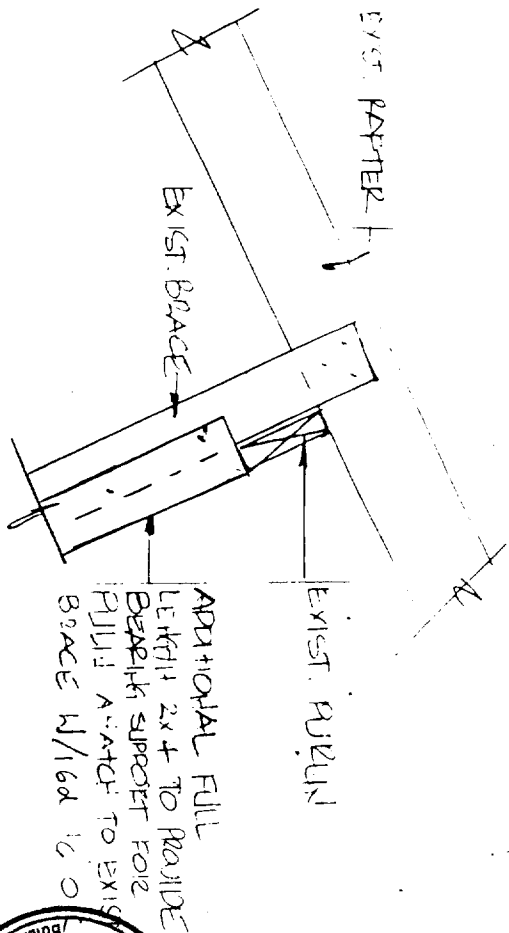
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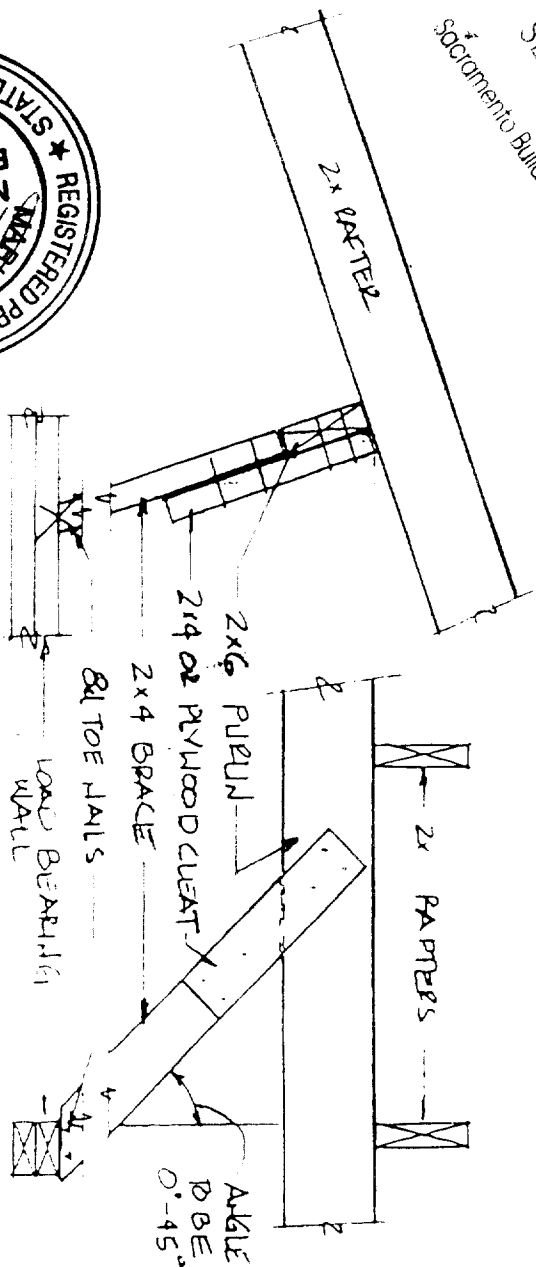
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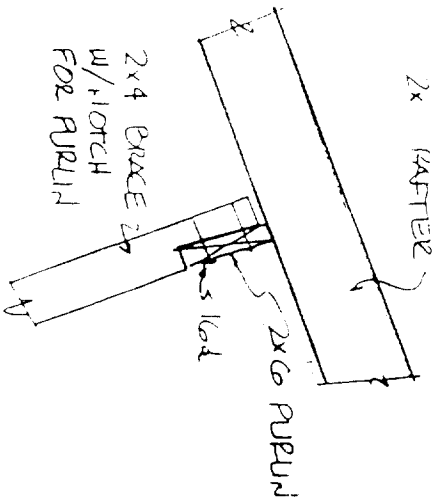
MODIFICATION OF EXISTING RUIB
BRACE FOR DIRECT BEARING



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2x4 BRACE TO PURLIN CONNECTIONS



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SCHOEN ENGINEERING
9524 BEDINGTON WAY
SACRAMENTO, CA 95827
(916) 369 6866
Licensed by the California State
Board for Engineers and Land Surveyors
LIC.# C042913



September 9, 2000

Bob O'Dell
Curtis Roofing
7475 14th Avenue
Sacramento, CA 95820

SUBJECT: Roof inspection at 6781 Breakwater Way & 3770 Riptide Way, Sacramento, CA 95831

Dear Bob:

On August 28th 2000 I inspected the roof structure of the duplex at the above mentioned addresses. The roof was of standard construction with 2x6 Douglas fir No. 2 rafters @ 2' o.c. with a max span of 10' in the attic areas of 6781 Breakwater Way and 12' in the attic areas of 6770 riptide way. The garage rafters spanned 11'-6" at 6781 Breakwater Way and 12'-8" at 6770 Riptide Way. There were various 4x12 porch beams the longest one having a 13' span supporting 6 sq.ft. per lineal ft. of roof area.

The following modifications need to be made prior to reroofing the unit @ 6781 Breakwater:

* In the garage the ends of the small section of ridge in the middle of the garage as well as the upper ends of the hip and valley rafters need to be supported. To do this install a beam made up of 2(two) 1-3/4"x11-7/8" Microlams between the wall facing Riptide Way and the fire wall between the house and garage. The ends of the ridge as well as the hip and valley rafters should then be braced off of this beam(see sketch for details and plan for location).

The following modifications need to be made prior to reroofing the unit @ 6770 Riptide:

* In the back slope of the main section of the roof two of the rafters need to be reinforced by doubling them up with a 2x6 Douglas fir No. 2 rafter installed along side the existing rafter in one continuous piece from plate to ridge and nailed to the existing rafter with 16d common nails @ 16" o.c.. These two rafters are approximately 4' south of the attic access scuttle(see plan for location).

* In the garage the rafters in the front slope facing the street are overspan. In this area install a 1-3/4"x14" Microlam purlin approx. 8'-9" in from the exterior wall plate(see sketch for detail and plan for location).

It is my finding that this structure is adequate for the following : ½" Plywood or OSB installed over the existing skip sheathing; 30lb tarred felt; 1x2 batts; Concrete tile weighing 7.3 lbs./sq.ft..

NOTE: it is possible when reroofing that the increased load to structural elements also supporting wall, ceiling and floor finishes could cause some minor cosmetic cracking of these finishes. This is typical of wood framed structures and does not of itself indicate structural inadequacy of these members.

This report deals with the structural adequacy of roof supporting members that were readily observable. It does not address any structure that was covered by wall finishes, buried in the ground or was otherwise not observable. Any such structures were assumed to conform to standard construction specifications in the Uniform Building Code. Also, it does not address any existing deflection or warping of roof surfaces, nor is it guaranteed that any structural modifications that may be listed in this report will remove such deflections or warping. The repair of such deflections or warping to improve architectural appearance is at the option of the building owner and the roofing contractor.

I would like to thank you for allowing me to provide my services in this matter. Please let me know if I may be of further assistance.

Sincerely,



Mark S. Schoen P.E.

MSS:mss

UNLESS INDICATED OTHERWISE

Calculation for the required section modulus and moment of inertia for simple span wood beams. Dead load(DL) and Live load(LL) are in pounds per square ft., Spans(L) and Tributary load length or spacing(sp) are in ft., Section moduli are in inches cubed and Moments of inertia are in inches to the 4th power Allowable stress (Fy) is in lbs./sq.in.

SUPPORT BEAM IN GARAGE FOR RIDGE HIP AND VALLEY RAFTERS.

 Superimposed roof dead and live loads:

Tile dead load: DLt := 7.5 Live load: LL := 14
 Truss spacing: sp := 2 Truss dead load: Rdl := $\frac{2}{sp}$
 Skip shtg. dead load: skshtg := 1 Plywood felt & batts dead load: ply := 1.5
 Ceiling dead load: clg := 2.5 misl. dead load: msl := .5
 Total dead load: DL := DLt + Rdl + skshtg + ply + clg + msl DL = 13.8
 Superimposed floor dead and live loads

FLL = 9 FDL = 40

Roof trib area: rta := $\frac{21.5 \cdot 20.67}{2}$ rta = 111.101 Floor trib area: fta := 0

Length: l := 20.12 Trib area: ta := 132

Point load: pl := (DL + LL) · rta + (FDL + FLL) · fta Point load live load only: pld := LL · rta + FLL · fta

Application of point load a := $\frac{1}{2}$ b := 1 - a

Fy := 2600 · 1.25 E := 1900000 Fv := 295 · 1.25

End reactions: R1 := pl · $\frac{b}{l}$ R1 = 1544.307 R2 := pl · $\frac{a}{l}$ R2 = 1544.307

A min. required = R1 · $\frac{3 \cdot l}{2 \cdot Fv}$ = 6.282 R2 · $\frac{3 \cdot l}{2 \cdot Fv}$ = 6.282

S min. required = pl · a · $\frac{b}{l \cdot Fy}$ = 57.021

I min. required = pl · a · b · (a + 2 · b) · $\frac{(3 \cdot a \cdot (a + 2 \cdot b))^5}{27 \cdot E \cdot \frac{1}{180} \cdot l}$ = 351.127

Use 2(two) 1-3/4" x 11-7/8" Microlams

Beam section properties: w := 3.5 d := 11.875

A := w · d S := w · $\frac{d^2}{6}$ I := w · $\frac{d^3}{12}$

 - A = 41.563 > 6.2 S = 82.259 > 57 I = 488.413 > 351 therefore O.K.

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Calculation for the required section modulus and moment of inertia for simple span wood beams. Dead load(dl) and Live load(ll) are in pounds per square ft., Spans(l) and Tributary load length or spacing(sp) are in ft., Section moduli are in inches cubed and Moments of inertia are in inches to the 4th power. Allowable stress (Fy) is in lbs./sq.in. per Manufacturer's specifications Section modulus shape factor reduction and load modification are per U.B.C. 1997 edition .

MICROLAM PURLIN IN GARAGE

$$\begin{aligned}
 rdl &:= 11 & rll &:= 16 & rta &:= 10 & l &:= 19 \\
 fdl &:= 8 & fl &:= 40 & fta &:= \frac{0}{2} & rta \cdot l &:= 190 \\
 Wdl &:= 9.5 \cdot \frac{1.75}{144} \cdot 35 & Wll &:= 4.041 & E &:= 1900000 & Fb &:= 2600 \cdot 1.25 \\
 wt &:= rta \cdot (rdl + rll) + fta \cdot (fdl + fl) + Wdl
 \end{aligned}$$

$$S \text{ min. required} = (wt) \cdot l^2 \cdot \frac{1.5}{Fb} = 45.659$$

$$I \text{ min. required} = 5 \cdot (wt) \cdot \frac{(l \cdot 12)^4}{12 \cdot 384 \cdot E \cdot l \cdot \frac{12}{180}} = 333.884$$

Use 1-3/4"x14" MicroLam beam:

$$\begin{aligned}
 w &:= 1.75 & d &:= 14 & Cf &:= \left(\frac{12}{d} \right)^{\frac{1}{9}} \\
 S &:= Cf \cdot w \cdot \frac{d^2}{6} & I &:= w \cdot \frac{d^3}{12}
 \end{aligned}$$

$$S = 56.196 > 46 \quad I = 400.167 > 334 \quad \text{therefore 1-3/4"x14" MLB is O.K.}$$

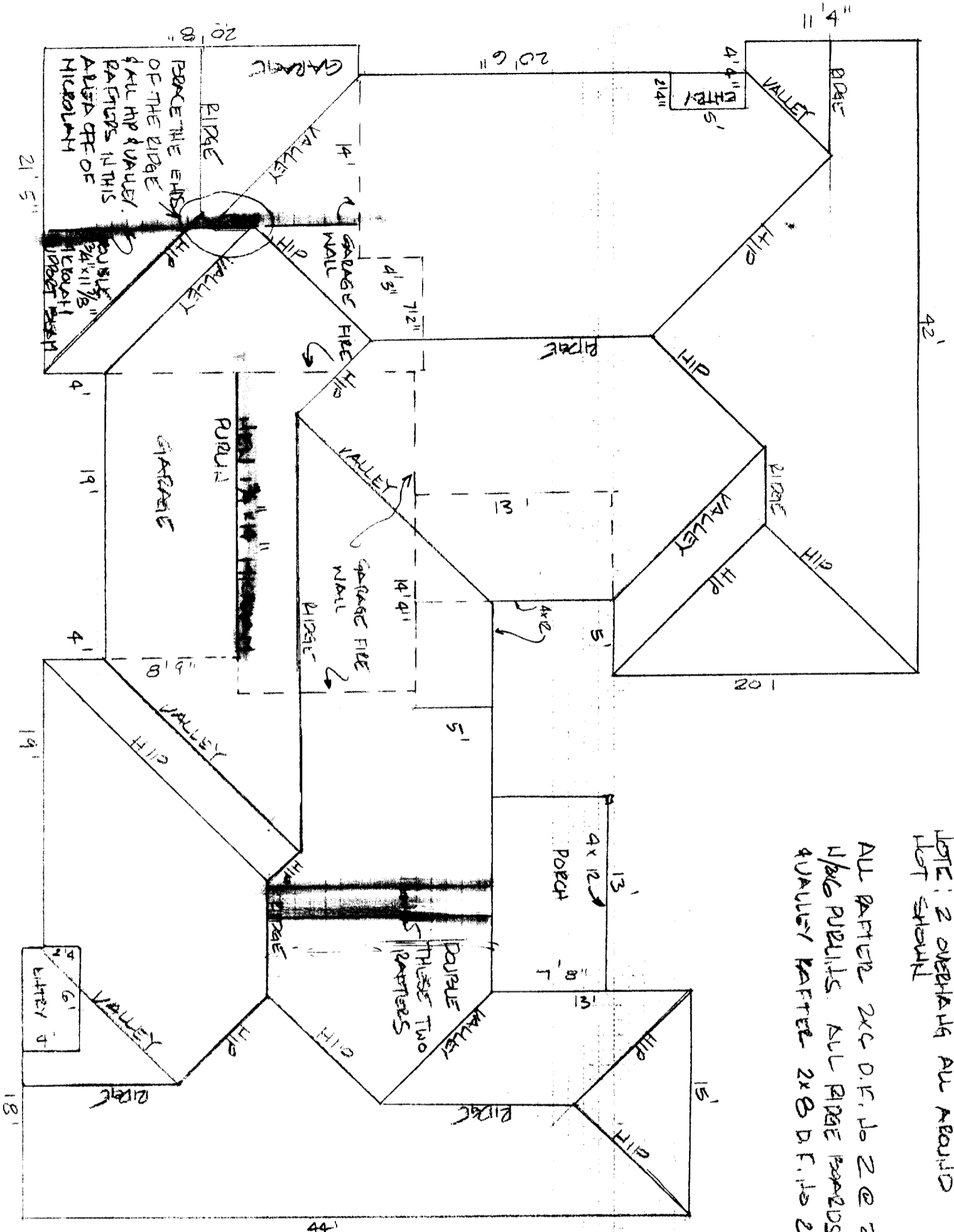
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0781 BREAKWATER



NOTE: 2 OVERHANG ALL AROUND
HOT SHOW

ALL RAFTERS 2x6 D.F. Jo 2 @ 2'0" C.
HIP RAFTERS ALL RIDGE RAFTERS 4 HIP
4 VALLEY RAFTER 2x8 D.F. Jo 2

ROOF PLAN FOR:
0781 BREAKWATER MAY 4 0770 R/P/P/D/E W/AR
SACRAMENTO, CA 95831



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0770 R/P/P/D/E

1 See work req'd by report, highlighted. See details next 3 sheets.

2 Verify max. span 2x6 rafters @ 2'4" c-c is 10'-5".

Reviewed by Mark P. 9/24/00