

**CITY OF SACRAMENTO**  
1231 I Street, Sacramento, CA 95814

**Permit No: 0003906**

**Insp Area: 2**

**Site Address: 6643 HARMON DR SAC**  
Parcel No: 030-0172-001

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

**CONTRACTOR**  
SUPERIOR ROOFING  
2515 AMYS LN  
H. DORADO HILLS CA 95762

**OWNER**  
SENEGAL WARREN C/JEWELL H  
6643 HARMON DR  
SACRAMENTO CA 95831

**ARCHITECT**

**Nature of Work: REROOF 52 SQ**

**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 578043 Date 4-13-00 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 \_\_\_\_\_

**NEIGHBORHOOD DEVELOPMENT**

**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 4-13-00 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 VILLANOVE INS. CO. Policy Number WC30075441 Exp Date 04/05/2000

(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 4-13-00 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.**

SCHOEN ENGINEERING

9524 BEDINGTON WAY  
SACRAMENTO, CA 95827  
(916) 369 6866  
LIC.# C042913



April 2, 2000

Brandy Fisher  
2515 Amy's Lane  
El Dorado Hills, CA 95762

SUBJECT: Roof structural inspection at 6643 Harmon Drive, Sacramento, CA 95831

Dear Brandy:

On March 15<sup>th</sup> 2000 I inspected the roof structure of the residence at the above mentioned address. The roof was of standard construction with 2x6 Douglas fir No. 2 rafters @ 2" o.c. with a max span of 11' in the attic and garage areas of the roof. The garage door header was a 4x12 spanning 16'-3".

The following modifications need to be made prior to reroofing:

\* In the garage the ends of the ridges that intersect the short cripple hip are not properly supported by the framing. In this area install two 1-3/4"x16" Microlam beams between the front and back wall of the garage, one under each brace point and brace the ridges off of the beams(see plan and sketches for location and details).

\* In the garage the existing 4x12 garage door header is not adequate to support the roof loads. Reinforce the header by installing a 1-3/4"x16" Microlam beam on the back side of the header directly against the header from king stud to king stud. Attach the Microlam to the header with 2-columns of 6-16d common nails at each end, one column into the king stud and one column into the header above the trimmer cripples, then 2-rows of 16d common nails @ 12" o.c. staggered in the field(see sketch). Also, install 2-columns of 6-16d common nails where the Microlam beam frames into the header or sit above it. The nails into the king stud should be predrilled with a 1/8" diameter drill bit.

\* Some of the purlin braces in the attic areas of the house are framed so as to run by the purlin and then rely on nailing and a 2x4 block nailed to the brace underneath to support the purlin. These are not adequate to support the proposed roof loads and should be redone. These braces should either be replaced by braces providing direct bearing for the supported member or modified to provide direct bearing. Also, the existing ridge braces for the supported ridge of the house should be doubled and additional braces added to reduce the ridge board span to no more than 8'(see sketch for bracing details).

\* Along the main wing of the house all opposing pairs of rafters should be tied across the top of the ridge with Simpson MSTA18 steel strap ties with 5-10d nails into each rafter(see attached ridge).

It is my finding that this structure is adequate for the following : 1/2" or 7/16" plywood or OSB installed over the existing skip sheathing; 30 # tarred felt; 1x2 batts; Concrete tile weighing 6 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,

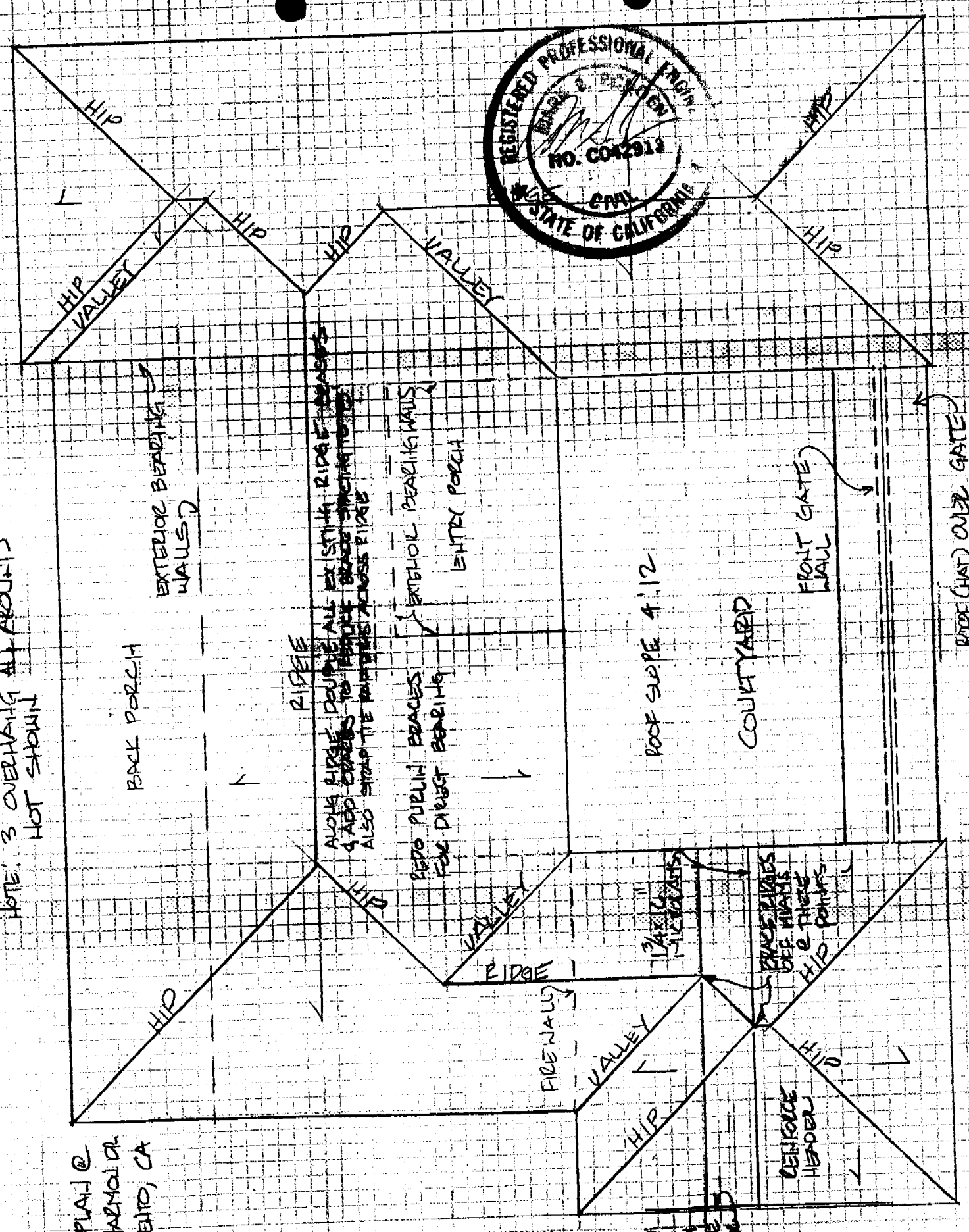
Mark S. Schoen P.E.

MSS:mss  
S-ENG2000/SURF005.001



NOTE: 3' OVERHANG ALL AROUND NOT SHOWN

ROOF PLAN @  
6643 HARMOLD DR  
SACRAMENTO, CA

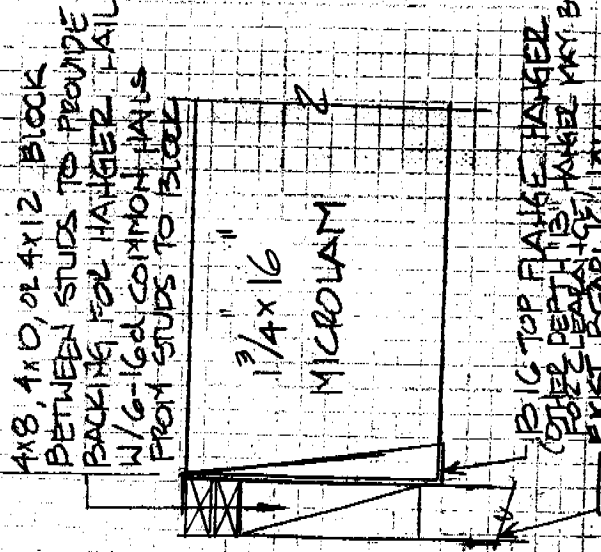


1 1/2" x 10"  
TRUSS  
PIRE WALL  
& HEADS

ALONG RIDGE DOUBLE ALL EXISTING RIGID BRACES  
& ADD BRACES TO RIGID BRACES  
ALSO STRAP THE JOINTS ACROSS RIDGE

TRUSS BRACES  
SEE DETAILS

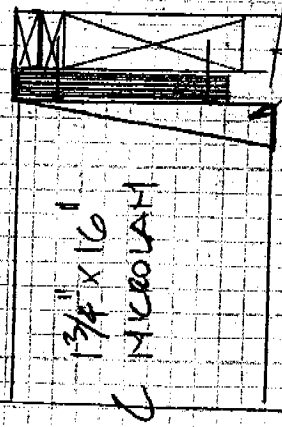
CENTRICE  
HEADS



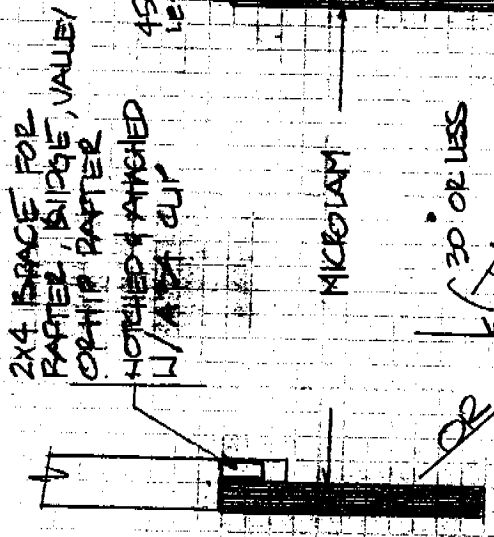
4x8, 1x10, OR 4x12 BLOCK BETWEEN STUDS TO PROVIDE BACKING FOR HANGER TAIL W/ 1/6-16d COMMON NAILS FROM STUDS TO BLOCK

MICROLAM BEAM SUPPORT @ EXTERIOR WALL

NOTE: BEAM MAY BE SUPPORTED ON HANGER AS SHOWN HERE OR RURED ON TOP OF PLATE AS IN THE FAMILY ROOM

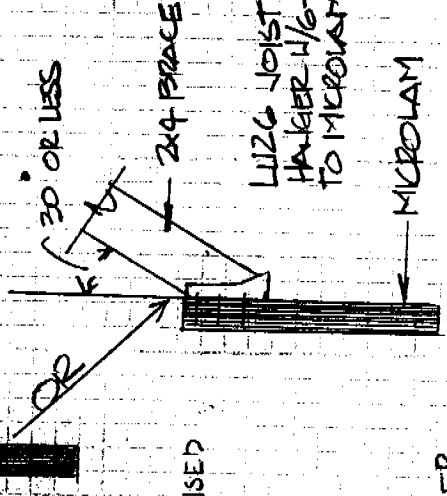


MICROLAM BEAM SUPPORT @ GARAGE DOOR



BRACE TOP OF MICROLAM 45 OR LESS

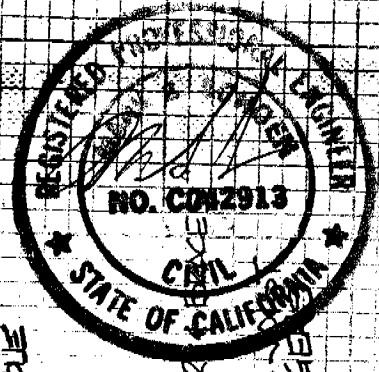
NOTE: BRACE MAY TIE IN FROM THE SIDE OR GO OVER THE TOP OF THE MICROLAM



L126 JOIST HANGER 1/6-16d TO MICROLAM

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

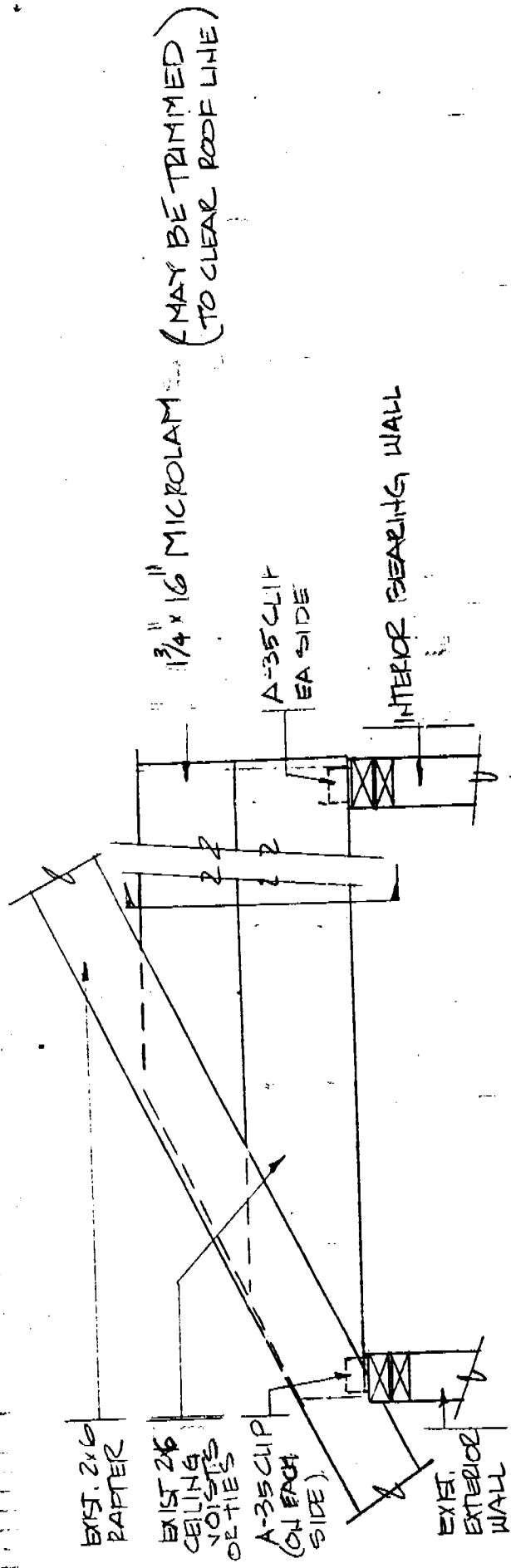
2x4 BRACES MAY BE DOUBLED W/ DOUBLE HANGERS



BRACE TO MICROLAM DETAILS

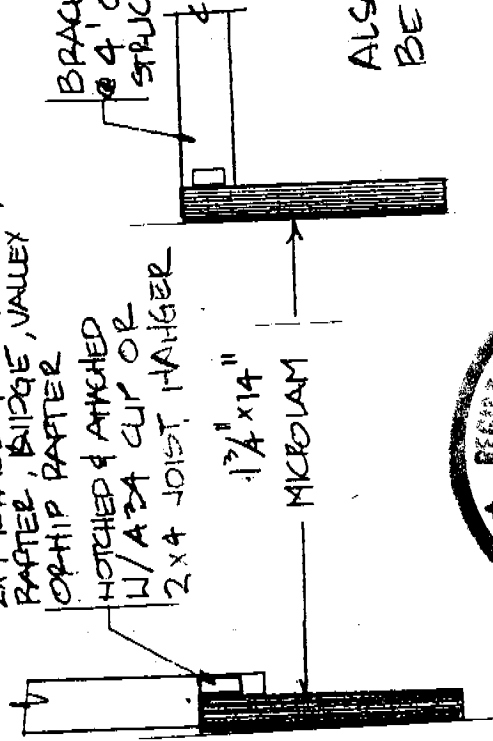
(NOTE: IT MAY NOT BE ...)

(SINGLE MICROLAM SHOWN, BRACE CONNECTIONS WITH DOUBLED MICROLAM SIMILAR)



2x4 BRACE FOR PURLIN, RAFTER, RIDGE, VALLEY OR HIP RAFTER

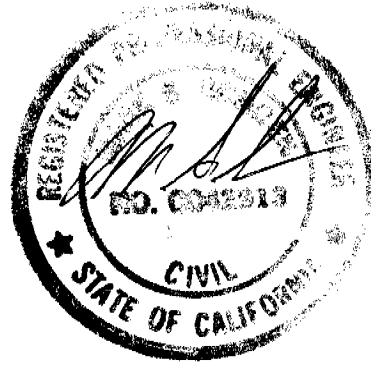
NOTCHED & ATTACHED W/A 3x4 CLIP OR 2x4 JOIST HANGER



GARAGE RIDGE ROOF SUPPORT BEAM

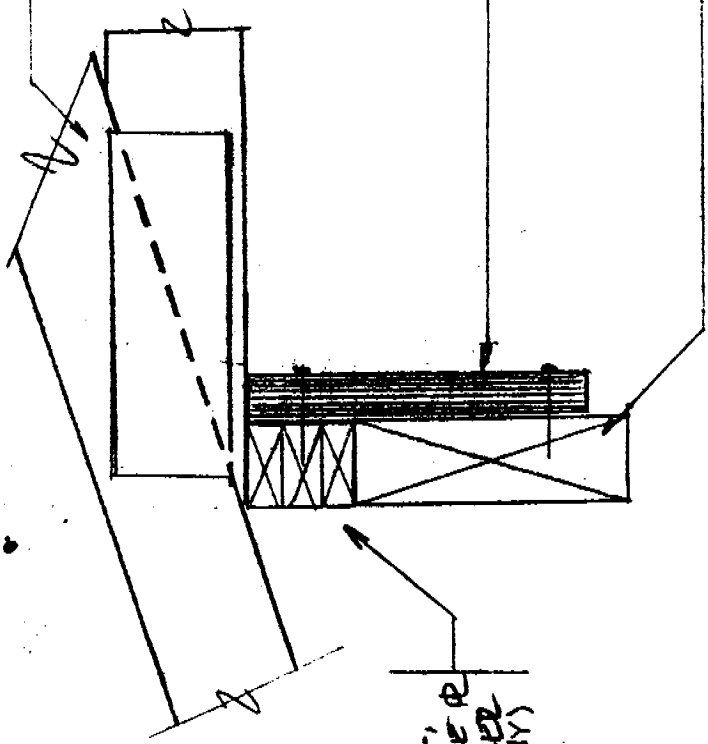
ALTERNATE SUPPORT

ALSO CROSS BRACING MAY BE USED @ 4' O.C.



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

EXIST. TRUSSES  
OR RAFTERS



TOP R,  
DOUBLE R,  
& FILLER  
(IF ANY)

NOTE: IF PLYWOOD SHEATH IS INSTALLED ON THE KINGSTUD RELIEVE THE BACKSIDE OF THE MICROLAM TO FIT OVER THE PLYWOOD. DO NOT REMOVE PLYWOOD

1 3/4 x 16 MICROLAM W/2-ROWS OF 16d COMMON NAILS @ 12" O.C. FIELD, 6" 16d INTO THE KING STUD & 6" 16d INTO THE HEADER ABOVE THE TRIMMER STUDS (NAILS INTO KINGSTUD SHOULD BE PREDRILLED 1/16" & DEEP BIT)

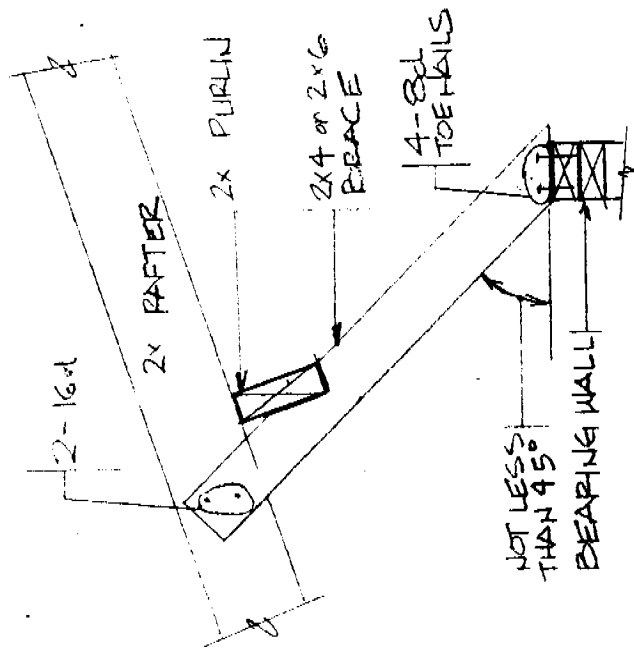
NOTE: IF THERE ARE CRIPPLE STUDS ABOVE HEADER @ 16" O.C. 2-16d COM. NAILS INTO EA STUD MAY BE SUBSTITUTED FOR BOTTOM ROW OF NAILS

EXIST. HEADER

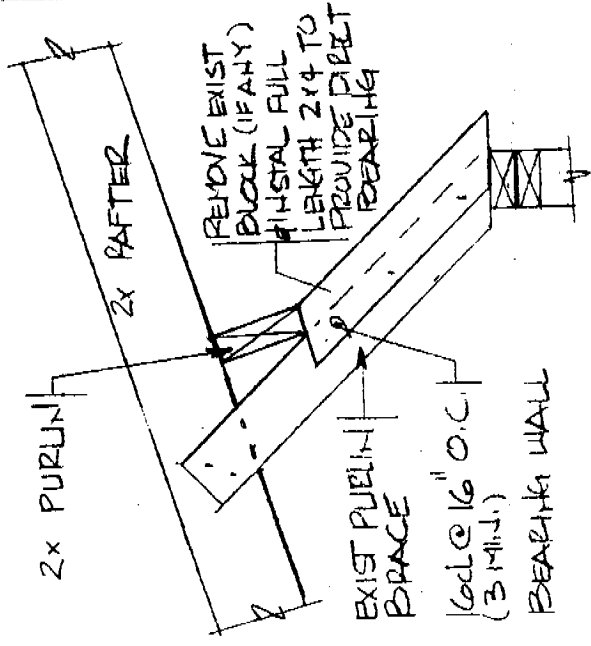
NOTE: IF THE MICROLAM BEAM IS SUPPORTING THE RIDGES IS SUPPORTED AT THE WALLS WITH A TOP FLAKE HANGER, THE MICROLAM BEHINDING THE HEADER SHOULD BE HEUD FLUSH WITH THE TOP OF THE TOP PLATE. IF NOT IT MAY BE MOVED UP OR DOWN TO ALLOW FOR HARDWARE OR BRACING.

HEADER REINFORCEMENT

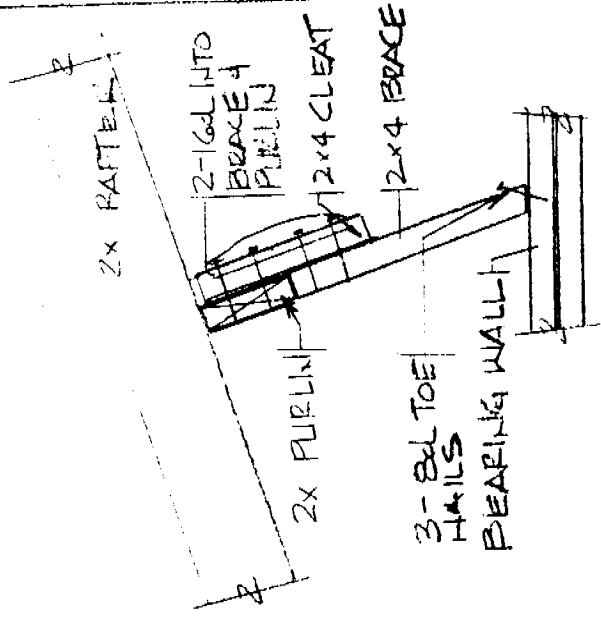




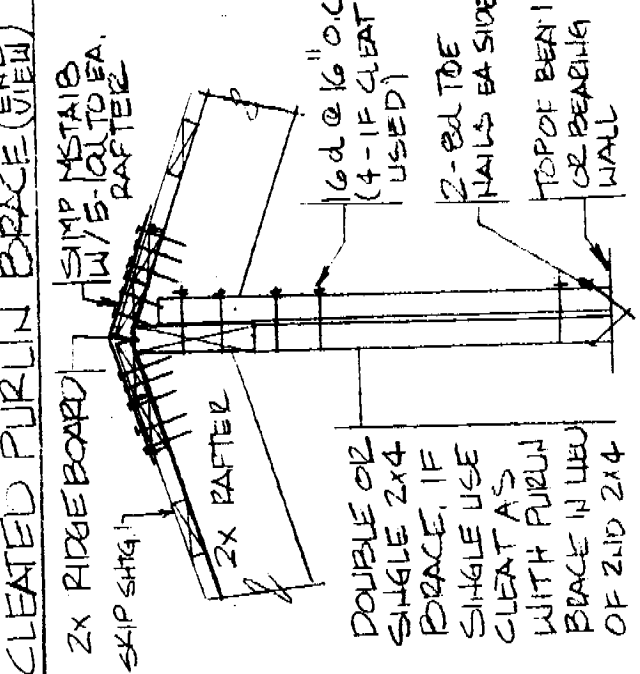
NOTCHED PURLIN BRACE



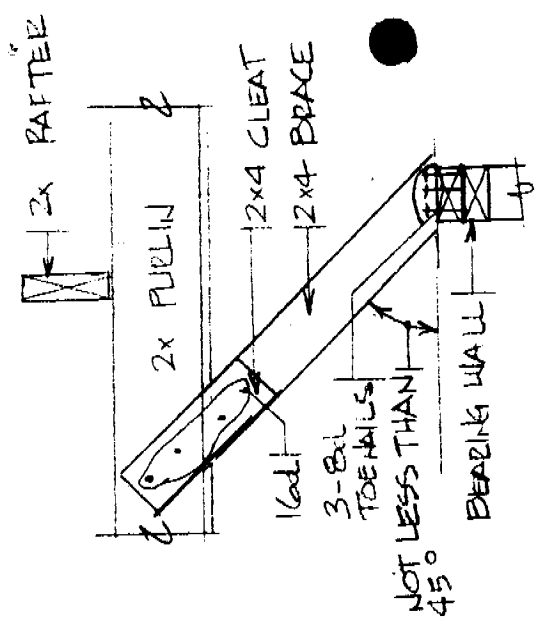
EXISTING BRACE MODIFIED FOR DIRECT BEARING



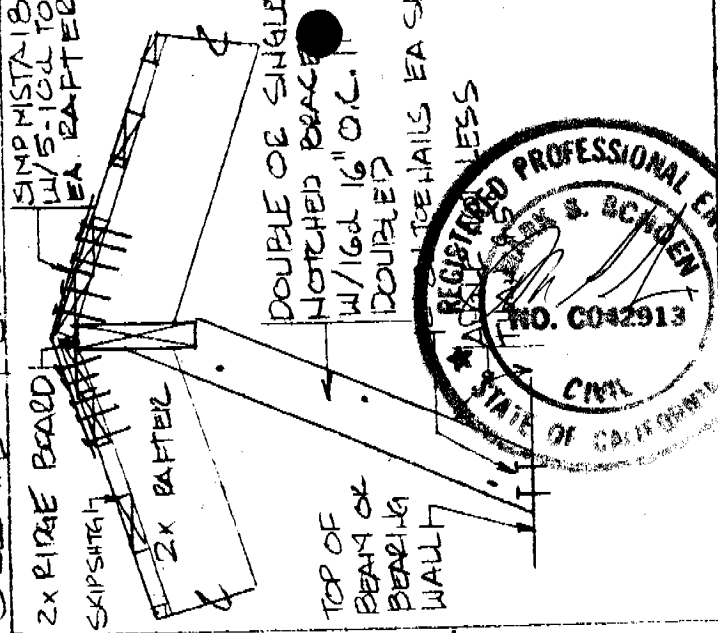
CLEATED PURLIN BRACE (END VIEW)



NOTE: BRACE MAY LEAN IN LINE W/ RIDGE BUT @ ANGLE NOT FLATTER THAN 45°



CLEATED PURLIN BRACE (SIDE VIEW)



NOTCHED RIDGE BRACE W/ BEARING WALL DISPLACED TO SIDE OF RIDGE

