

**CITY OF SACRAMENTO**

**1231 I Street, Sacramento, CA 95814**

**Permit No: 0111277**

**Insp Area: 4**

**Thos Bros: 277D6**

**Site Address: 1112 ATHENA AV SAC**

**Parcel No: 225-0326-011**

**Sub-Type: REP**

**Housing (Y/N): N**

**CONTRACTOR**

**OWNER**

SANCHEZ LUIS S & ADELA  
1112 ATHENA AV  
SACRAMENTO CA 95833

**ARCHITECT**

**Nature of Work: T/O REROOF WITH LITE 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: \_\_\_\_\_

X Date 8/31/01 Owner Signature George Luis Vaquer

**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.

X Date 8/31/01 Applicant/Agent Signature George Luis Vaquer

**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 \_\_\_\_\_

X JLV (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.

X Date 8/31/01 Applicant Signature George Luis Vaquer

**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.**

OWNER-BUILDER VERIFICATION

ATTENTION PROPERTY OWNERS

An owner-builder building permit has been applied for in your name and bearing your signature.

Please complete and return this information in the envelope provided at your earliest opportunity to avoid unnecessary delay in processing and issuing your building permit. No building permit will be issued until this verification is received.

1. I personally plan to provide the major labor and materials for construction of the proposed Improvement (yes) or no) \_\_\_\_\_
2. I (have) or have not) \_\_\_\_\_ signed an application for A building permit for the proposed work.

3. I have contracted with the following person (firm) to provide the proposed construction:

Name JNA Address \_\_\_\_\_  
City \_\_\_\_\_ Telephone \_\_\_\_\_  
Contractors License No. \_\_\_\_\_

4. I plan to provide portions of the work, but I have hired the following person to coordinate, Supervise, and provide the major work.

Name \_\_\_\_\_ Address \_\_\_\_\_  
City \_\_\_\_\_ Telephone \_\_\_\_\_  
Contractors License No. \_\_\_\_\_

5. I will provide some of the work but I have contracted (hired) the following to provide the Work indicated:

Name	Address	Phone	Type of work
_____	_____	_____	_____
_____	_____	_____	_____

Signed Jay Van \_\_\_\_\_

Job Address 1112 ATHENA AV \_\_\_\_\_

Permit No: 0111277 \_\_\_\_\_

# Pacific Consulting Engineers

2150 Bell Ave., Suite 145 • Sacramento, CA 95838 • (916) 564-6028 • Fax: (916) 564-6029

August 29, 2001

Adela Sanchez  
1112 Athena Ave  
Sacramento, CA

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.

*Adela Sanchez* 8/31/01

RE: Roof Inspection for placement of light weight tile during re-roof at 1112 Athena Ave, Sacramento, CA This inspection and letter is our Job#01-1096.

Dear Mrs. Sanchez:

Per your request I met with you on August 17, 2001, at the aforementioned site to look at the existing roof framing to determine if it would be adequate to support the slightly higher weight of the light weight tile.

The existing residence is a 1 story building, with approximately 1096 sf of living space.

The existing roof construction consisted of wood shake, over 15# felt, over 7/16" sheathing, over prefabbed trusses at 24" c.c..

It is my understanding that the new roof construction will be light weight tile (6.5 psf installed weight), over 15 or 30# felt, over the existing 7/16" sheathing nailed with 8d at 6" c.c. edge and 12" c.c. field, over the existing rafters.

The condition of the existing roof members was generally good. There was place over the dining area, near the right wall of the house, that shows signs of sagging. In looking at the existing roof framing it became evident that the existing trusses over the main portion of the house were hanging on a gable end truss over the garage and dining area. Thus, it is my suggestion that after removing the existing shake roof, and prior to adding the new tile roof, a beam should be added to the support the truss for the 11' span over the dining area where it is not bearing on a wall.

I have attached a sketch of the existing roof plan with approximate dimensions (Attachment A1). This plan also indicates the location of where the new 4x12 #2 DF should be placed. This plan also references a section thru the new beam and existing truss(s) showing the connection of the beam to the gable end truss, and the supported trusses (24' span over the main house) to the beam (See Detail on Attachment A2).

Please find the following attachments:

Adela Sanchez

Page 2

August 29, 2001

Attachment #1 is the sketch of the roof framing plan;  
Attachment #2 is the Beam Attachment Detail;  
Attachment #3 & 4 are the calculations regarding the size and connection of the beam and the verification the of the top chord span and the calculation of the weight of the top chord with the light weight tile.

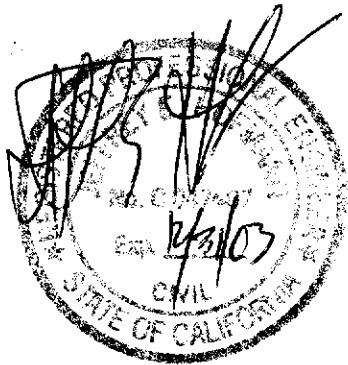
Based on the above information and my inspection, it is my professional opinion that the existing roof framing is adequate to support the new roof construction with light weight tile (6.5 max installed weight) as long as the aforementioned recommendation for the placement of the beam is followed.

Thus, as stated earlier, providing the recommendations above are completed, the existing roof framing will be acceptable to support the weight of the light weight tile.

Please note the above recommendations are based on my initial inspection and that I would like a chance to look at the area over the dining area once the existing roof is removed and before the new beam and roof covering is placed, to verify that the connection detail provided is applicable.

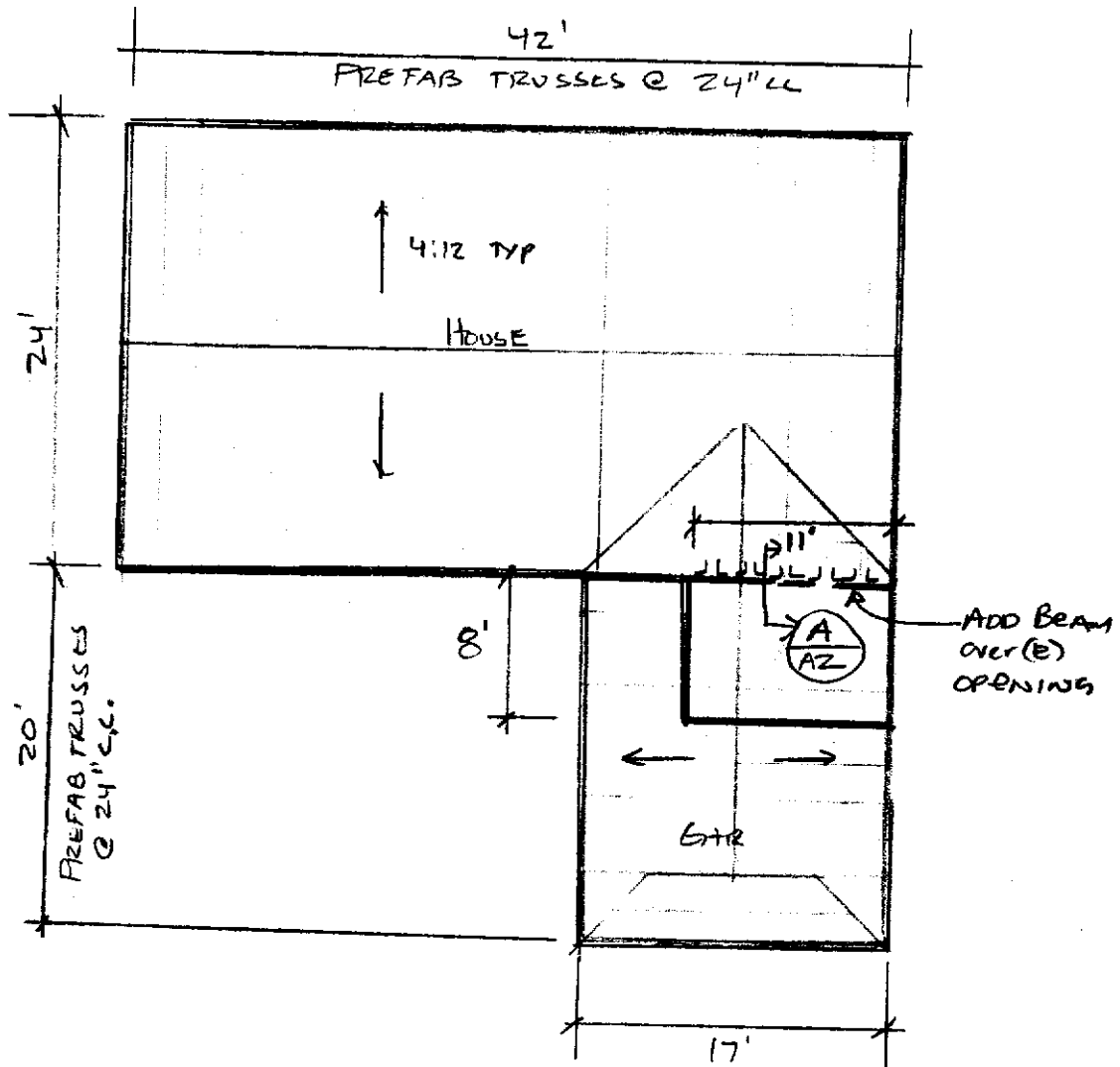
If you have any questions or need further clarification on these matters please feel free to contact me at (916) 564-6028.

Sincerely,



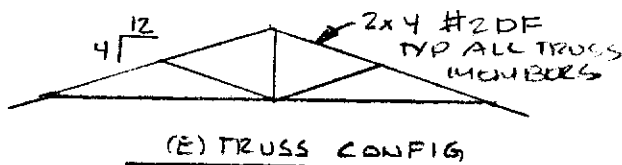
Jeffrey E. Hofmann, P.E.

STAEDTLER®  
No. 937 811E  
Engineer's Computation Pad



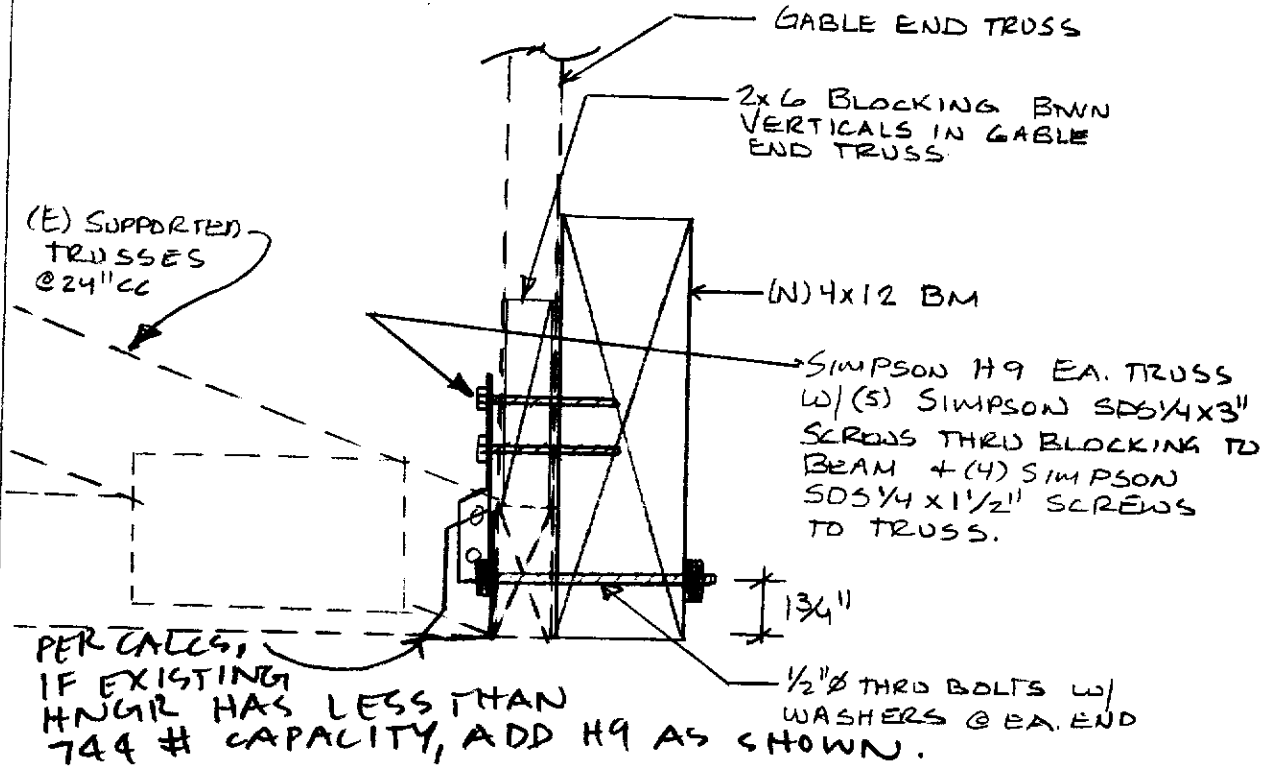
SKETCH OF ROOF PLAN  
(W.T.S.).

NOTE: NEW BEAM TO BE ADDED  
AFTER (E) SHINGLES ARE REMOVED  
+ BEFORE NEW TILE PLACED

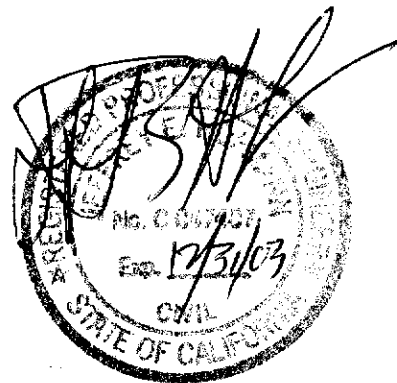


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SACRAMENTO, CA 95833

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(A) SECTION - N.T.S.  
(E) TRUSSES TO NEW BEAM



PACIFIC CONSULTING ENGINEERS  
2160 BELL AVE., SUITE 145  
SACRAMENTO, CA 95838

SIZE NEW BEAM OVER DINING ROOM

$$\text{SPAN} = 11'$$

$$W_{TL} = \frac{24}{2} (16 + 10 + 5) = 372 \text{ PLF}$$

$$\text{REQ'D } A = \frac{1.5 (2046 - \frac{6}{12} (372))}{95 (1.25)} = 23.5 \text{ IN}^2$$

$$\text{MIN DEPTH} = \frac{23.5 \text{ IN}^2}{3.5''} = 6.7''$$

FROM LSWPA BM COMPUTED?

USE 4x12 #2 DF

DEPTH PROVIDED

$$Y_1 = 3.7 + \frac{4}{12}(x)$$

$$Y_2 = -2.5 + \frac{1}{12}(x)$$

$$Y_1 = Y_2 \rightarrow \text{SOLVE FOR } x$$

$$3.7 + \frac{4}{12}(x) = -2.5 + x$$

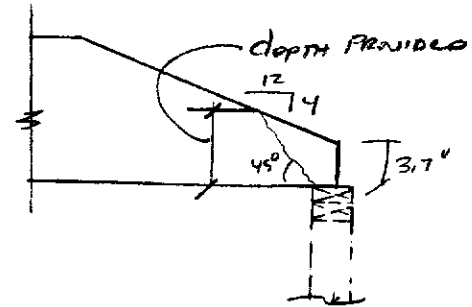
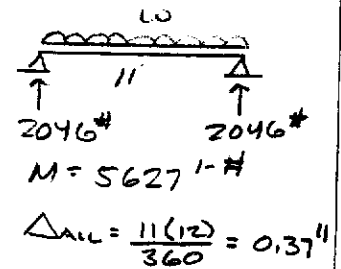
$$6.2 = x - \frac{4}{12}(x)$$

$$6.2 = \frac{8}{12}x$$

$$x = 6.2 \left(\frac{12}{8}\right) = 9.3''$$

$$Y = 3.7 + \frac{4}{12}(9.3) = 6.8'' = \text{DEPTH PROVIDED}$$

∠ DEPTH PROVIDED IS ≥ MIN DEPTH REQ'D ∠ OK

CONNECTION OF GABLE END TRUSS TO BEAM

$$W = 372 \text{ PLF}$$

$$V_{ALL} (\frac{1}{2} \phi \text{ BOLT}) = 370 \text{ #/BOLT} \text{ (1/2" TO 3/2" DP)}$$

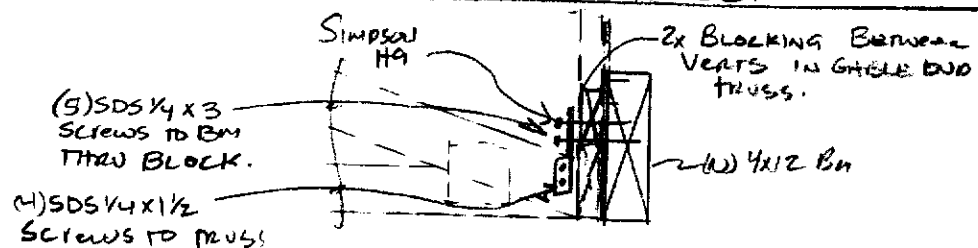
$$\text{MAX SP} = \frac{370}{372} \times 12 = 11.9''$$

∠ USE 1/2 φ THRU BOLTS w/ WASHERS @ 12" OC.

CONNECTION OF SUPPORTED TRUSS TO GABLE END TRUSS

$$R = \frac{24}{2} (2') (16 + 10 + 5) = 744 \text{ #}$$

∠ IF (E) HANGERS DO NOT HAVE A CAPACITY OF 744# OR MORE THEN ADD SIMPSON H9 FROM EACH TRUSS TO BEAM. USE (5) SDS 1/4 x 3" TO BEAM + (4) SDS 1/4 x 1/2 TO TRUSS.



PROFESSIONAL CONSULTING ENGINEER  
2180 BELL AVE., SUITE 145  
SACRAMENTO, CA 95833

CHECK TOP CHORD OF (E) TRUSSES

MAX SPAN = 6'

LL = 16 PSF (PITCH 24:12)

DL = 10 PSF

6.5 PSF - TILE

.3 PSF - FELT

1.5 PSF - 1/2" PLY

1.1 PSF - 2x4 @ 24" OC

0.6 PSF - MISC

FROM WWPA RAFTER COMPUTER (PRE 1995 GRADING RULES)

(E) 2x4 #2 DP TOP CHORDS OK FOR ADDITIONAL WT.
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# Pacific Consulting Engineers

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2150 Bell Ave., Suite 145 • Sacramento, CA 95838 • (916) 564-6028 • Fax: (916) 564-6029

September 10, 2001

Adela Sanchez  
1112 Athena Ave  
Sacramento, CA

RE: Revision to recommendations for beam placement for placement of light weight tile during re-roof at 1112 Athena Ave, Sacramento, CA This inspection and letter is our Job#01-1096\_1.

Dear Mrs. Sanchez:

As requested, on September 7, 2001, I inspected the actual framing condition of the roof at the area where I required the placement of a beam in my original report.

I am still requiring that the beam be placed, however, I am providing a new detail for the support of the existing trusses to the new beam. I am attaching a revised copy of the detail shown on page A2 of the original report. I am also attaching a copy of the revised calculation page A3.

What the detail requires is the following:

- 1.) Remove the existing roof covering;
- 2.) Place the 4x12 #2 DF beam as originally required;
- 3.) Place the Simpson HU24TF hangers at the front end of the trusses running front to back over the residence - nail each hanger thru gable end truss to header with 16d Nails in all holes;
- 4.) Place the ½" diameter bolts, at 12" c.c., from the bottom chord of the gable end truss to the new 4x12 beam.

If you have any questions or need further clarification on these matters please feel free to contact me at (916) 564-6028.

Sincerely,

Jeffrey E. Hofmann, P.E.

do NOT USE THIS DETAIL

No. 937 811E  
Engineer's Computation Pad

STAEDTLER®

(E) SUPPORTED TRUSSES @ 24" CC

GABLE END TRUSS

2x6 BLOCKING BAWN VERTICALS IN GABLE END TRUSS

N/A

(N) 4x12 BM

SIMPSON H9 EA. TRUSS W/ (5) SIMPSON SDS 5/4x3" SCREWS THRU BLOCKING TO BEAM + (4) SIMPSON SDS 5/4x1 1/2" SCREWS TO TRUSS.

13/4"

1/2" Ø THRU BOLTS W/ WASHERS @ EA. END @ 12" CC.

(A) SECTION - N.T.S.  
(E) TRUSSES TO NEW BEAM

9/10/01

(E) GABLE END TRUSS

(N) 4x12 BM, PLACE BEAM PRIOR TO PLACING TRUSS HANGERS

1/2" Ø THRU BOLTS W/ WASHERS EACH END @ 12" CC

13/4"

SIMPSON H924TF EA. TRUSS W/ (6) 16d FROM HANGER THRU GABLE END TRUSS TO HANGER.

(A) ALTERNATE SECTION - (E) TRUSS TO BEAM

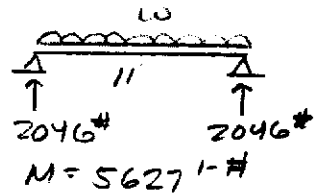
SIZE NEW BEAM OVER DINING ROOM

SPAN = 11'

$W_{PL} = \frac{24}{2} (16 + 10 + 5) = 372 \text{ PLF}$

$REQ'D A = \frac{1.5 (2046 - \frac{6}{12} (372))}{95 (1.25)} = 23.5 \text{ IN}^2$

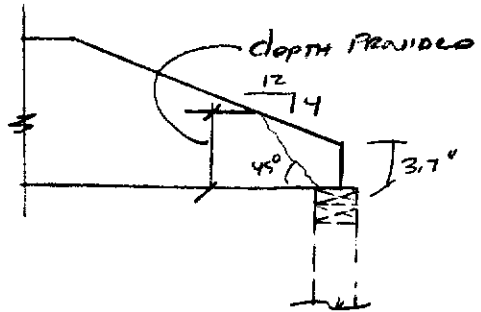
$MIN \text{ DEPTH} = \frac{23.5 \text{ IN}^2}{3.5''} = 6.7''$



$\Delta_{ALL} = \frac{11(12)}{360} = 0.37''$

FROM LWPFA BM COMPUTER

USE 4x12 #2 DF



DEPTH PROVIDED

$Y_1 = 3.7 + \frac{1}{2}(x)$

$Y_2 = -2.5 + \frac{1}{2}(x)$

$Y_1 = Y_2 \rightarrow \text{SOLVE FOR } X$

$3.7 + \frac{1}{2}(x) = -2.5 + x$

$6.2 = x - \frac{1}{2}(x)$

$6.2 = \frac{1}{2}x$

$x = 6.2 (\frac{12}{6}) = 9.3''$

$Y = 3.7 + \frac{1}{2}(9.3) = 6.8'' = \text{DEPTH PROVIDED}$

DEPTH PROVIDED IS  $\geq$  MIN DEPTH REQ'D - OK

CONNECTION OF GABLE END TRUSS TO BEAM

$W = 372 \text{ PLF}$

$V_{ALL} (\frac{1}{2}'' \phi \text{ BOLT}) = 370 \text{ #/BOLT} \text{ (1/2'' TO 3 1/2'' DP)}$

$MAX \text{ SP} = \frac{370}{372} \times 12 = 11.9''$

USE 1/2"  $\phi$  THRU BOLTS w/ WASHERS @ 12" CC.

CONNECTION OF SUPPORTED TRUSS TO GABLE END TRUSS

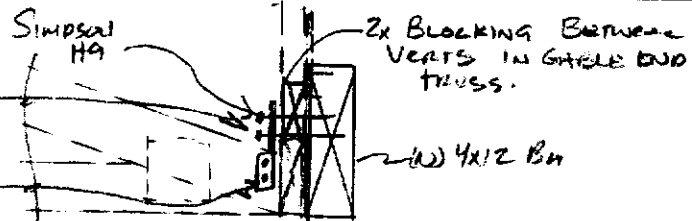
$R = \frac{24}{2} (2') (16 + 10 + 5) = 744 \text{ #}$

IF (E) HANDLER DO NOT HAVE A CAPACITY OF 744# OR MORE THEN ADD SIMPSON H9 FROM EACH TRUSS TO BEAM. USE (5) SDS 1/4 x 3" TO BEAM + (4) SDS 1/4 x 1/2" TO TRUSS.

ALT! USE SIMPSON H24TF FROM TRUSS TO BOTTOM CHORD

(5) SDS 1/4 x 3" SCREWS TO BM THRU BLOCK.

(4) SDS 1/4 x 1/2" SCREWS TO TRUSS



ADRIAN VENTURA ENGINEER  
2185 SHAW AVE., SUITE 145  
SACRAMENTO, CA 95833