

CITY OF SACRAMENTO

Permit No: 9904057

1231 I Street, Sacramento, CA 95814

Insp Area: 3

Site Address: 3249 44TH ST SAC

Sub-Type: RES

Parcel No: 014-0193-020

Housing (Y/N): N

CONTRACTOR

MLW HOME IMPROVEMENTS
3600 SUNRISE BL
RANCHO CORDOVA CA 95742

OWNER

GALLARDO JOSE/HERMELINDA
3249 44TH ST
SACRAMENTO CA 95817

ARCHITECT

Nature of Work: CUT IN NEW HVAC

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-20 License Number 731771 Date 4-28-99 Contractor Signature Rort W...

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 4-28-99 Applicant/Agent Signature Rort W...

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 MID CENTURY INSURANCE Policy Number A05107859 Exp Date 07/01/1999

____ (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 4-28-99 Applicant Signature Rort W...

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.

CHRIS OLIVEIRA AND ASSOC.

3269 1/2 Folsom Blvd.
Upper East
Sacramento, CA 95816
(916) 452-4886
(916) 455-9099 fax

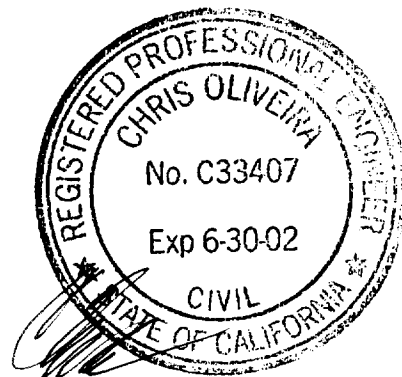
Office 33407- Ca.
22119- Az.
007595-Nv.
2202-Ut.

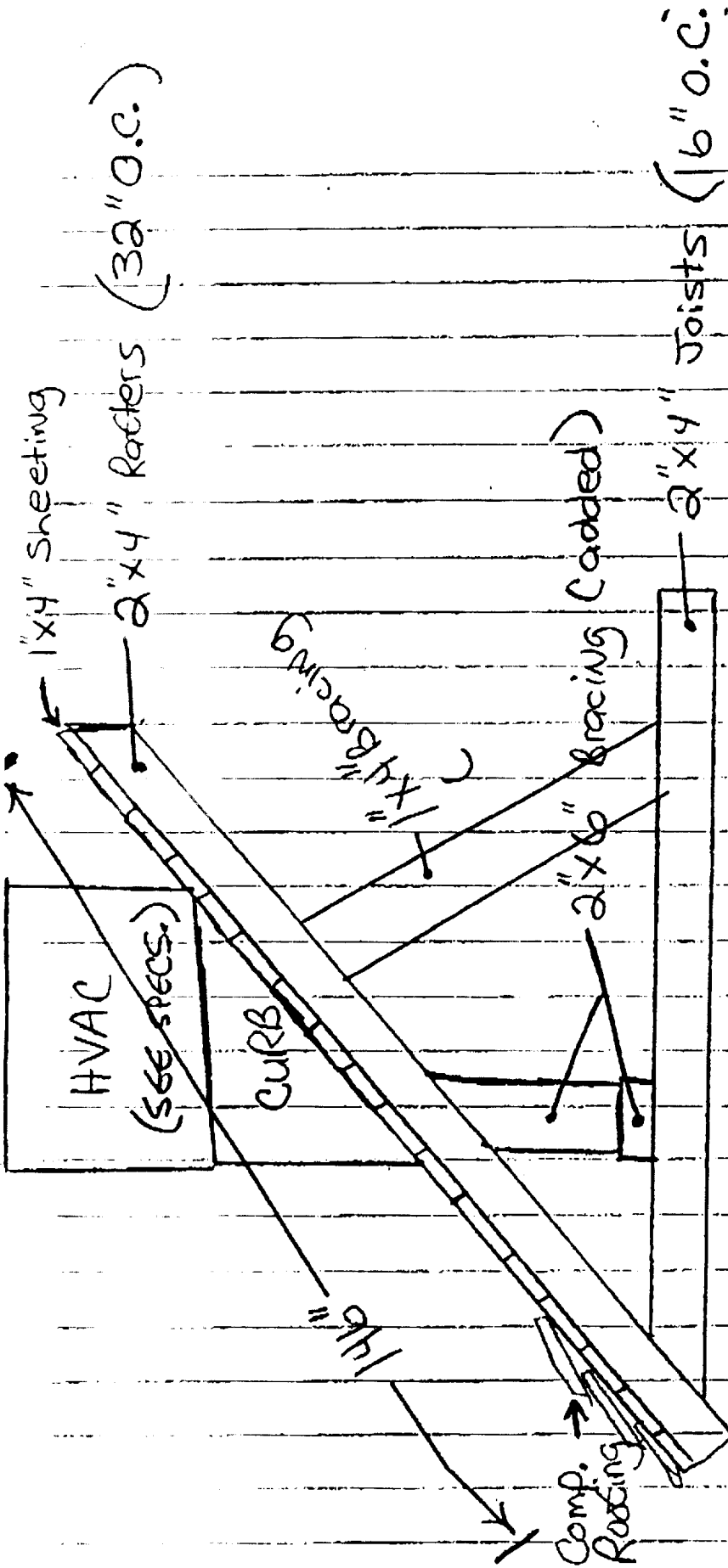
STRUCTURAL CALCULATIONS FOR

HVAC SUPPORT AT GALLARDO RESIDENCE

10-Jul-99

1997 UBC
SEISMIC ZONE 3
WIND SPEED = 80 MPH
EXPOSURE B

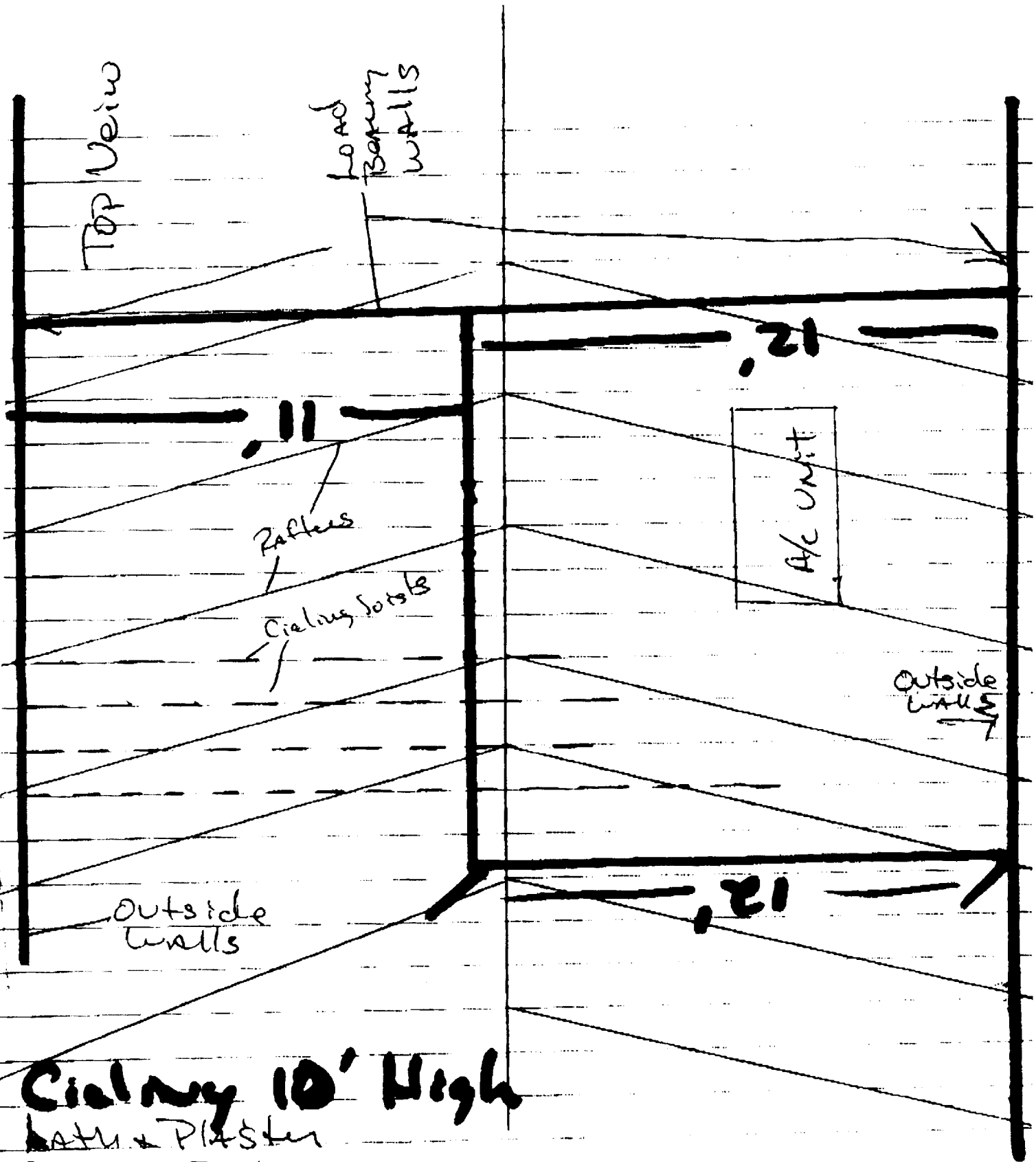




2 Ton Amana Package

Unit Dimensions: 49 3/16" X 47 5/32" X 30 7/16" H

Weight: 389 lbs



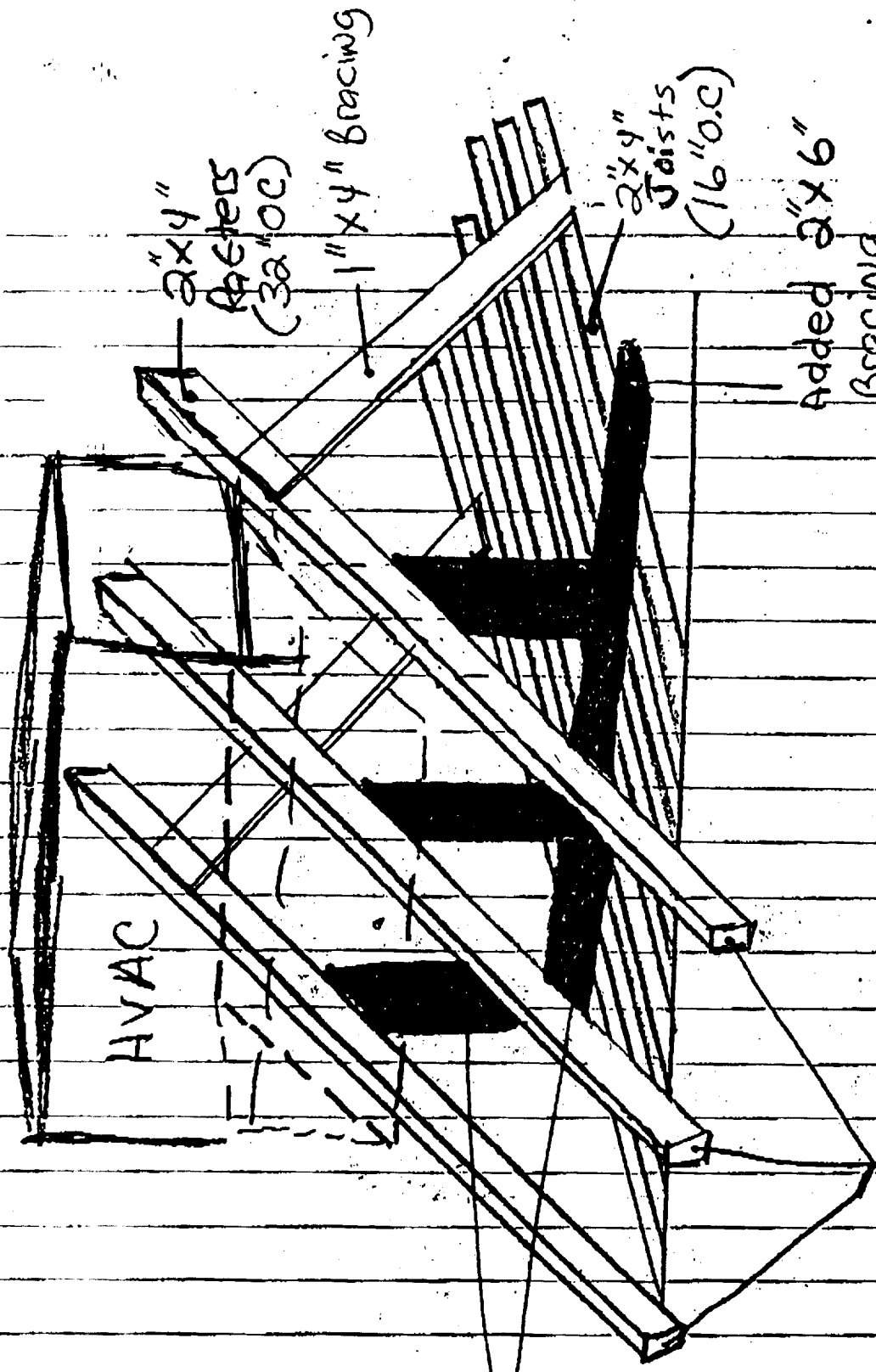
Ceiling 10' High

Bath + Plaster

Raised Foundation

Job Address
 3249 44th St.
 Culver CA 95817

Gallardo Sobij



2x4"
Rafters
(32" o.c.)

1" x 4" Bracing

2x4"
Joists
(16" o.c.)

Added 2x6"
Bracing

Weight Distributed over
2 Rafters *

Roof Pitch
12 on 12

2x6
Added

CHRIS OLIVEIRA & ASSOCIATES

Consulting Engineers
CA NO. 33407
AZ NO. 22119
UT NO. 94-268684-2202
NV NO. 007595

JOB GALLARDO
SHEET NO. _____ OF _____
CALCULATED BY CO DATE 7-10-99
CHECKED BY _____ DATE _____
SCALE _____

HVAC SUPPORT

LENGTH OF CURB: 4' - SPANS - 3 C.J.'s

$$WT = 389\# \rightarrow \frac{389}{3} = 130\#/\text{C.J.}$$

C.J. SPAN = 12'

$$W_{DEAD} = 1.33 \times 5 \text{ PSF} = 6.7\#/\text{L}$$

$$W_{LIVE} = 1.33 \times 10 = 13.3\#/\text{L}$$

DOUBLE 2x4 CJS UNDER HVAC UNIT

Chris Oliveira and Assoc.
 3269 1/2 Folsom Blvd.
 Sacramento, CA 95816
 (916) 452-4886
 (916) 455-9099 fax

Title :
 Dsgnr:
 Description :
 Scope :

Job #
 Date: 12:22PM, 9 JUL 99

Rev. 510300
 User: KW-0801009, Ver 5 1.3, 22-Jun-1999, Win32
 (c) 1993-99 ENERCALC

General Timber Beam

Page 1

c:\enercalc\hvac.ecw:Calculations

Description Gallardo hvac support

General Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Section Name	2-2x4	Center Span	12.00 ftLu	0.00 ft
Beam Width	3.000 in	Left Cantilever	ftLu	0.00 ft
Beam Depth	3.500 in	Right Cantilever	ftLu	0.00 ft
Member Type	Sawn	Douglas Fir - Larch, No.2			
Load Dur. Factor	1.250	Fb Base Allow	900.0 psi		
Beam End Fixity	Pin-Pin	Fv Allow	95.0 psi		
		Fc Allow	625.0 psi		
		E	1,600.0 ksi		

Full Lengh Uniform Loads

Center	DL	6.70 #/ft	LL	13.30 #/ft
Left Cantilever	DL	#/ft	LL	#/ft
Right Cantilever	DL	#/ft	LL	#/ft

Point Loads

Dead Load	130.0 lbs	lbs	lbs	lbs	lbs	lbs	lbs
Live Load	lbs	lbs	lbs	lbs	lbs	lbs	lbs
...distance	6.000 ft	0.000 ft	0.000 ft	0.000 ft	0.000 ft	0.000 ft	0.000 ft

Summary

Span= 12.00ft, Beam Width = 3.000in x Depth = 3.5in, Ends are Pin-Pin Beam Design OK

Max Stress Ratio	0.871	: 1		
Maximum Moment Allowable	0.7 k-ft	0.9 k-ft	Maximum Shear * 1.5 Allowable	0.3 k
Max Positive Moment	0.75 k-ft	at 6.000 ft	Shear:	@ Left 0.18 k
Max Negative Moment	0.00 k-ft	at 0.000 ft		@ Right 0.18 k
Max @ Left Support	0.00 k-ft		Camber:	@ Left 0.000 in
Max @ Right Support	0.00 k-ft			@ Center 0.981 in
Max M allow	0.86			@ Right 0.000 in
f _b	1,469.39 psi	f _v	25.61 psi	Reactions...
F _b	1,687.50 psi	F _v	118.75 psi	Left DL 0.11 k
				Right DL 0.11 k
				Max 0.18 k
				Max 0.18 k

Deflections

Center Span...	<u>Dead Load</u>	<u>Total Load</u>	Left Cantilever...	<u>Dead Load</u>	<u>Total Load</u>
Deflection	-0.654 in	-1.016 in	Deflection	0.000 in	0.000 in
...Location	6.000 ft	6.000 ft	...Length/Defl	0.0	0.0
Length/Defl	220.2	141.79	Right Cantilever...		
			Deflection	0.000 in	0.000 in
			...Length/Defl	0.0	0.0

Stress Calcs

Bending Analysis

C _k	30.585	L _e	0.000 ft	S _{xx}	6.125 in ³	Area	10.500 in ²
C _f	1.500	R _b	0.000	C _I	0.000		
@ Center		Max Moment	0.75 k-ft	S _{xx} Req'd	5.33 in ³	Allowable f _b	1,687.50 psi
@ Left Support			0.00 k-ft		0.00 in ³		1,687.50 psi
@ Right Support			0.00 k-ft		0.00 in ³		1,687.50 psi

Shear Analysis

Design Shear	0.27 k	@ Right Support	0.27 k
Area Required	2.264 in ²		2.264 in ²
F _v Allowable	118.75 psi		118.75 psi

Bearing @ Supports

Max Left Reaction	0.18 k	Bearing Length Req'd	0.099 in
Max Right Reaction	0.18 k	Bearing Length Req'd	0.099 in

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Job #
Date: 12:22PM, 9 JUL 99

Scope :

Rev: 510300
Jser: KVN-0901009, Ver 5 1.3, 22-Jun-1999, Win32
(c) 1983-99 ENERCALC

General Timber Beam

Page 2

Description Gallardo hvac support

c:\enercalc\hvac.ecw:Calculations

Query Values

M, V, & D @ Specified Locations

		Moment	Shear	Deflection
@ Center Span Location =	0.00 ft	0.00 k-ft	0.18 k	0.0000 in
@ Right Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in
@ Left Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in