

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0102532

Insp Area: 2

Thos Bros: 317C1

Site Address: 1407 11TH AV SAC

Parcel No: 012-0362-019

Sub-Type: AOTHR

Housing (Y/N): N

CONTRACTOR

PAUL MENARD ASSOCIATES
PO BOX 1005
CARMICHEAL CA 95609

OWNER

STEEER RICHARD WGAY
1407 11TH AV
SACRAMENTO CA 95818

ARCHITECT

Nature of Work: EXTEND EXISTING CARPORT 4' (+80 SF) TO WITHIN 12" OF SIDE PROPERTY LINE W/ RECORDED NON-BUILDABLE EASEMENT ON ADJACENT PROPERTY.

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 B License Number 638300 Date 11-26-01 Contractor Signature Paul

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: NOT 26 2001

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 11-26-01 Applicant/Agent Signature Paul

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 FUND Policy Number 692-01 UNIT 0002567 Exp Date 10/01/2002

(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 11-26-01 Applicant Signature Paul

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.

Date of Request: _____

By: _____

CITY OF SACRAMENTO DEVELOPMENT SERVICES DIVISION
PLANNING AND ZONING INFORMATION REQUEST

X Project Address: 1407 11th Ave -

Assessor's Parcel Number: 012-0362-019

Previous Use: sf w/ det. gar.

X Description of Request/Proposed Use: extend existing attached carport to within 1' of side property line

Is This a Change of Use? No

Zoning Designation: (R-1)

Prior Applications for Project Site(P#, Z#, DRPB#): Z01-010

Comments: See Z01-010 upon approval (hearing date scheduled for 3-7-01). Do not issue permit until/unless Z# approval of Z01-010 (wait til appeal period expires). Compare

Are There Any Planning Issues?: (circle one) (YES) NO

* Staff Site Plan Check Required? (Circle one) (YES) NO

* Field Inspection Required? (Circle one) (YES) NO

* Design Review/Preservation Required?: (Circle one) YES (NO)

Planning Review by/Date: On May 2-27-01

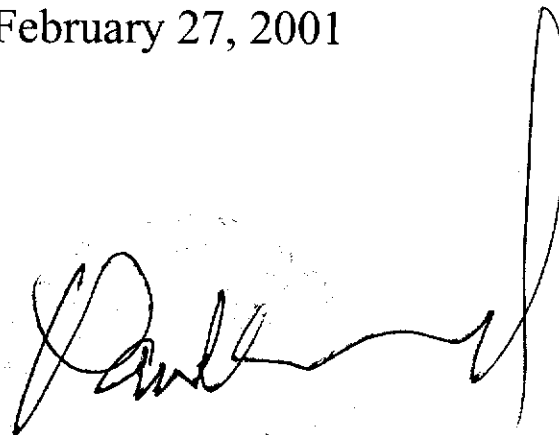
submittal to Z01-010 approval and conditions for conformance

A list of items that must be reviewed by Planning is provided on the reverse side of this form.

MICROFILM AFTER FINAL

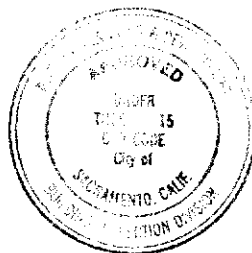
Steere Residence
Carport Extension
1407 11th Avenue
Sacramento, CA 95818

Structural Calculations
February 27, 2001



30-SEP-01

Paul Menard Associates, AIA
4629 Whitney Avenue, Suite 3
Sacramento, CA 95821



The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

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Multi-Loaded Beam [97 UBC (91 NDS)] StruCalc 4.06
 By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001

Project: 00230 - Location: CARPORT EAVE

Summary:

(2) 1.75 IN x 11.875 IN x 14.5 FT / 1.9E Microllam - TRUS JOIST-MACMILLAN

Section Adequate By: 38.6% Controlling Factor: Section Modulus / Depth Required 10.54 In

Deflections:

Dead Load:	DLD=	0.22	IN
Live Load:	LLD=	0.28	IN = L/611
Total Load:	TLD=	0.51	IN = L/343

End Reactions(Left Side):

Live Load:	RL1=	1513	LB
Dead Load:	RD1=	1125	LB
Total Load:	RT1=	2638	LB

End Reactions(Right Side):

Live Load:	RL2=	2087	LB
Dead Load:	RD2=	1656	LB
Total Load:	RT2=	3743	LB
Bearing Length Req.(Left) :	BL1=	1.00	IN
Bearing Length Req.(Right):	BL2=	1.43	IN

Beam Data:

Span:	L=	14.5	FT
Maximum Unbraced Span:	Lu=	0.0	FT
Live Load Duration Factor:	Cd=	1.00	
Live Load Deflect. Criteria:	L/	360	
Total Load Deflect. Criteria:	L/	240	

Uniform Load:

Live Load:	wL=	160	PLF
Dead Load:	wD=	100	PLF
Beam Self Weight:	BSW=	10	PLF
Total Load:	wT=	270	PLF

Concentrated Load P1:

Live Load:	PL1=	1280	LB
Dead Load:	PD1=	1184	LB
Total Load:	PT1=	2464	LB
Location:	X1=	10.5	FT

Properties For: 1.9E Microllam- TRUS JOIST-MACMILLAN

Bending Stress:	Fb=	2600	PSI
Shear Stress:	Fv=	285	PSI
Modulus of Elasticity:	E=	1900000	PSI
Stress Perpendicular to Grain:	Fc_perp=	750	PSI

Adjusted Properties:

Fb' (Tension):	Fb'=	2604	PSI
Adjustment Factors: Cd=1.00 Cf=1.00			
Fv':	Fv'=	285	PSI
Adjustment Factors: Cd=1.00			

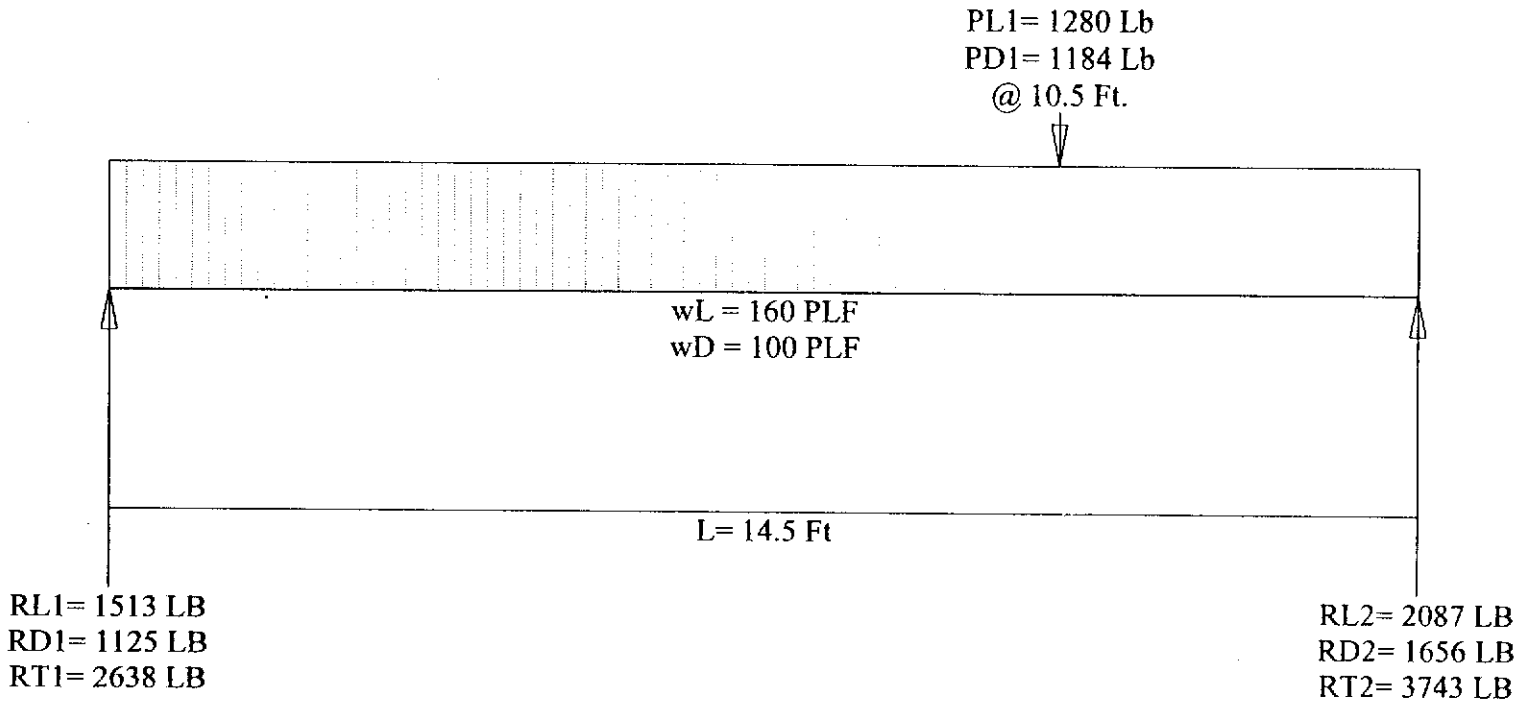
Design Requirements:

Maximum Moment:	M=	12882	FT-LB
9.767 FT From Left Support			
Shear (@ d from beam end):	V=	3475	LB

Comparisons With Required Sections:

Section Modulus:	Sreq=	59.4	IN3
	S=	82.2	IN3
Area:	Areq=	18.3	IN2
	A=	41.5	IN2
Moment of Inertia:	Ireq=	341.9	IN4
	I=	488.4	IN4

Multi-Loaded Beam[97 UBC (91 NDS)] Ver. V4052502
By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001
1.9E Microllam / TRUS JOIST-MACMILLAN / Laminated Veneer Lumber
Project: 00230 - Location: CARPORT EAVE



Roof Beam| 97 UBC (91 NDS) | StruCalc 4.06

By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001

Project: 00230 - Location: CARPORT GABLE END - EXISTING

Summary:

3.125 IN x 12.00 IN x 20.0 FT / 24F-V4 - VISUALLY GRADED WESTERN SPS - Dry Use
 Section Adequate By: 21.7% Controlling Factor: Moment of Inertia / Depth Required 11.24 In

Deflections:

Dead Load: DLD= 0.53 IN
 Live Load: LLD= 0.57 IN = L/422
 Total Load: TLD= 1.10 IN = L/219

Reactions (Each End):

Live Load: RL= 1280 LB
 Dead Load: RD= 1184 LB
 Total Load: RT= 2464 LB
 Bearing Length Req'd.: BL= 1.21 IN
 Camber Req'd.: C= 0.53 IN

Beam Data:

Span: L= 20.0 FT
 Maximum Unbraced Span: Lu= 0.0 FT
 Pitch Of Roof: RP= 4.00 : 12
 Live Load Deflect. Criteria: L/ 240
 Total Load Deflect. Criteria: L/ 180
 Camber Adjustment Factor: CAF= 1.0 X DLD

Beam Loading:

Live Load: LL= 16 PSF
 Roof Loaded Area: RLA= 160 SF
 Roof Live Load Method: 1
 Side One: Roof Dead Load: DL1= 10 PSF
 Roof Rafter Tributary Width: TW1= 6.0 FT
 Side Two: Roof Dead Load: DL2= 10 PSF
 Roof Rafter Tributary Width: TW2= 2.0 FT
 Roof Duration Factor: Cd= 1.15
 Wall Load: WALL= 25 PLF

Slope Adjusted Lengths and Loads:

Adjusted Beam Length: Ladj= 20.0 FT
 Beam Live Load W/ Slope Red'n: wL= 128 PLF
 Beam Self Weight: BSW= 9 PLF
 Beam Total Dead Load: wD= 118 PLF
 Total Maximum Load: wT= 246 PLF
 Controlling Total Design Load: wTcont= 246 PLF

Properties For: 24F-V4- VISUALLY GRADED WESTERN SPS

Bending Stress: Fb= 2400 PSI
 Shear Stress: Fv= 190 PSI
 Modulus of Elasticity: Ex= 1800000 PSI
 Ey= 1600000 PSI
 Stress Perpendicular to Grain: Fc_perp= 650 PSI

Adjusted Properties:

Fb' (Tension): Fb'= 2760 PSI
 Adjustment Factors: Cd=1.15
 Fv': Fv'= 219 PSI
 Adjustment Factors: Cd=1.15

Design Requirements:

Maximum Moment: M= 12322 FT-LB
 Shear (@ d from beam end): V= 2218 LB

Comparisons With Required Sections:

Section Modulus: Sreq= 53.6 IN3
 S= 75.0 IN3
 Area: Areq= 15.3 IN2
 A= 37.5 IN2

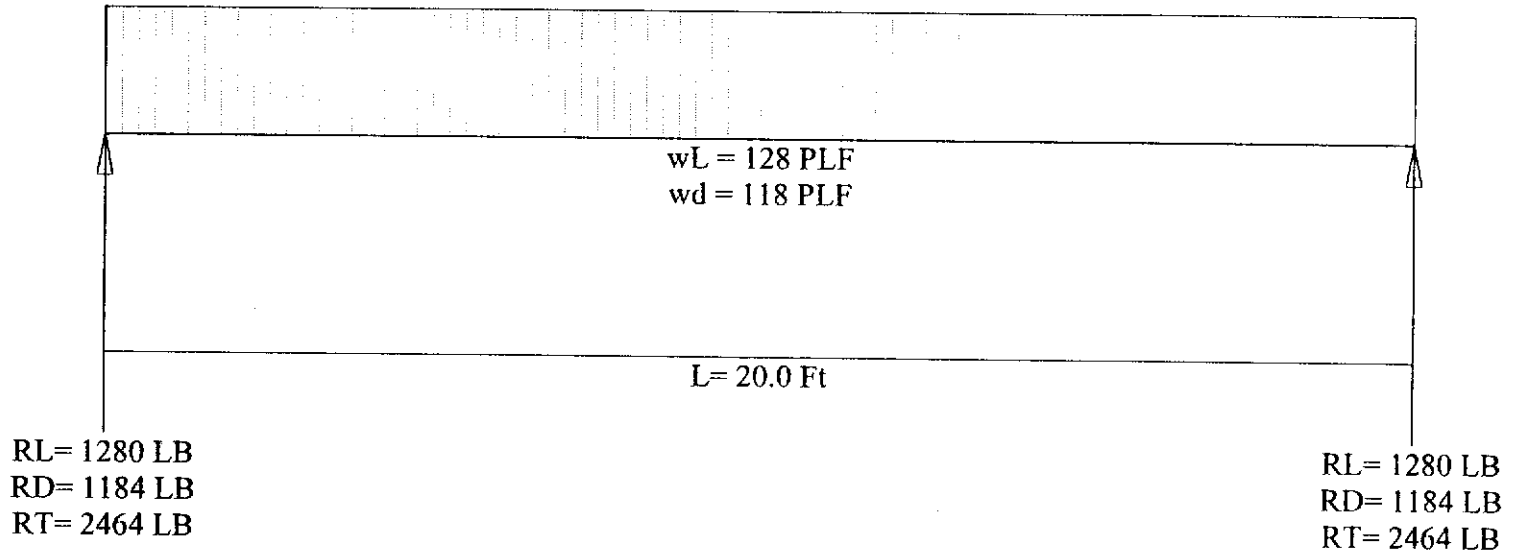
Roof Beam[97 UBC (91 NDS)] StruCalc 4.06

By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001

Project: 00230 - Location: CARPORT GABLE END - EXISTING
Moment of Inertia:

Ireq=	369.7	IN4
I=	450.0	IN4

Roof Beam[97 UBC (91 NDS)] Ver. V4052502
By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001
24F-V4 / VISUALLY GRADED WESTERN SPS / Glulam
Project: 00230 - Location: CARPORT GABLE END - EXISTING



Roof Beam[97 UBC (91 NDS) | StruCalc 4.06

By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001

Project: 00230 - Location: CARPORT GABLE END - NEW

Summary:

3.125 IN x 12.00 IN x 20.0 FT / 24F-V4 - VISUALLY GRADED WESTERN SPS - Dry Use
 Section Adequate By: 163.8% Controlling Factor: Moment of Inertia / Depth Required 8.69 In

Deflections:

Dead Load: DLD= 0.29 IN
 Live Load: LLD= 0.21 IN = L/1125
 Total Load: TLD= 0.51 IN = L/475

Reactions (Each End):

Live Load: RL= 480 LB
 Dead Load: RD= 657 LB
 Total Load: RT= 1137 LB
 Bearing Length Req'd.: BL= 0.56 IN
 Camber Req'd.: C= 0.29 IN

Beam Data:

Span: L= 20.0 FT
 Maximum Unbraced Span: Lu= 0.0 FT
 Pitch Of Roof: RP= 4.00 : 12
 Live Load Deflect. Criteria: L/ 240
 Total Load Deflect. Criteria: L/ 180
 Camber Adjustment Factor: CAF= 1.0 X DLD

Beam Loading:

Live Load: LL= 16 PSF
 Roof Loaded Area: RLA= 60 SF
 Roof Live Load Method: 1
 Side One: Roof Dead Load: DL1= 10 PSF
 Roof Rafter Tributary Width: TW1= 2.0 FT
 Side Two: Roof Dead Load: DL2= 10 PSF
 Roof Rafter Tributary Width: TW2= 1.0 FT
 Roof Duration Factor: Cd= 1.15
 Wall Load: WALL= 25 PLF

Slope Adjusted Lengths and Loads:

Adjusted Beam Length: Ladj= 20.0 FT
 Beam Live Load W/ Slope Red'n: wL= 48 PLF
 Beam Self Weight: BSW= 9 PLF
 Beam Total Dead Load: wD= 66 PLF
 Total Maximum Load: wT= 114 PLF
 Controlling Total Design Load: wTcont= 114 PLF

Properties For: 24F-V4- VISUALLY GRADED WESTERN SPS

Bending Stress: Fb= 2400 PSI
 Shear Stress: Fv= 190 PSI
 Modulus of Elasticity: Ex= 1800000 PSI
 Ev= 1600000 PSI
 Stress Perpendicular to Grain: Fc_perp= 650 PSI

Adjusted Properties:

Fb' (Tension): Fb'= 2760 PSI
 Adjustment Factors: Cd=1.15
 Fv': Fv'= 219 PSI
 Adjustment Factors: Cd=1.15

Design Requirements:

Maximum Moment: M= 5687 FT-LB
 Shear (@ d from beam end): V= 1024 LB

Comparisons With Required Sections:

Section Modulus: Sreq= 24.8 IN3
 S= 75.0 IN3
 Area: Areq= 7.1 IN2
 A= 37.5 IN2

Roof Beam [97 UBC (91 NDS)] StruCalc 4.06

By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001

Project: 00230 - Location: CARPORT GABLE END - NEW

Moment of Inertia:

I _{req} =	170.7	IN ⁴
I=	450.0	IN ⁴

Roof Beam[97 UBC (91 NDS)] Ver. V4052502
By: Paul Menard, Paul Menard Associates, AIA on: 02-27-2001
24F-V4 / VISUALLY GRADED WESTERN SPS / Glulam
Project: 00230 - Location: CARPORT GABLE END - NEW

