

CITY OF SACRAMENTO

Permit No: 9812130

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 6193 GREENHAVEN DR SAC
Parcel No: 0290311001 UNIT D

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

CONTRACTOR
CAPITOL RECONSTRUCTION
204 21ST ST
SACRAMENTO CA 95814

OWNER
ROBARTS ROBERT G/BETTY
ELK GROVE, CA 95759-0478

ARCHITECT

Nature of Work: REPAIR 3 ROOF TRUSS

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 522603 Date 12-9-98 Contractor Signature Robert Schmidt

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 above-mentioned property for inspection purposes.

Date 12-9-98 Applicant/Agent Signature Pamela Kennedy

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 SUPERIOR NAT'L INS CO Policy Number WPN60518F Exp Date 04/01/1999

(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 12-9-98 Applicant Signature Pam Kennedy

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.

PERMIT NO.

9812130

CITY OF SACRAMENTO
1231 I ST. ROOM 200
BUILDING INSPECTIONS DIVISION

AREA NO.

2

WHEN CORRECTIONS HAVE BEEN MADE, CALL 264-5191 FOR REINSPECTION OF WORK.

JOB LOCATION

693 D Greenhaves

INSPECTION REQUESTED

Fire 1

THE UNDERSIGNED BUILDING PLUMBING MECHANICAL ELECTRICAL
INSPECTOR THIS DAY INSPECTED THIS STRUCTURE FOR THE REQUESTED INSPECTION AND FOUND THE FOLLOWING VIOLATIONS OF CITY AND/OR STATE LAWS GOVERNING SAME:

0 Repair OK subject to Re-certification
by Engineer that repair was
done correctly. As per note on
trac of Permit

INSPECTOR

DATE

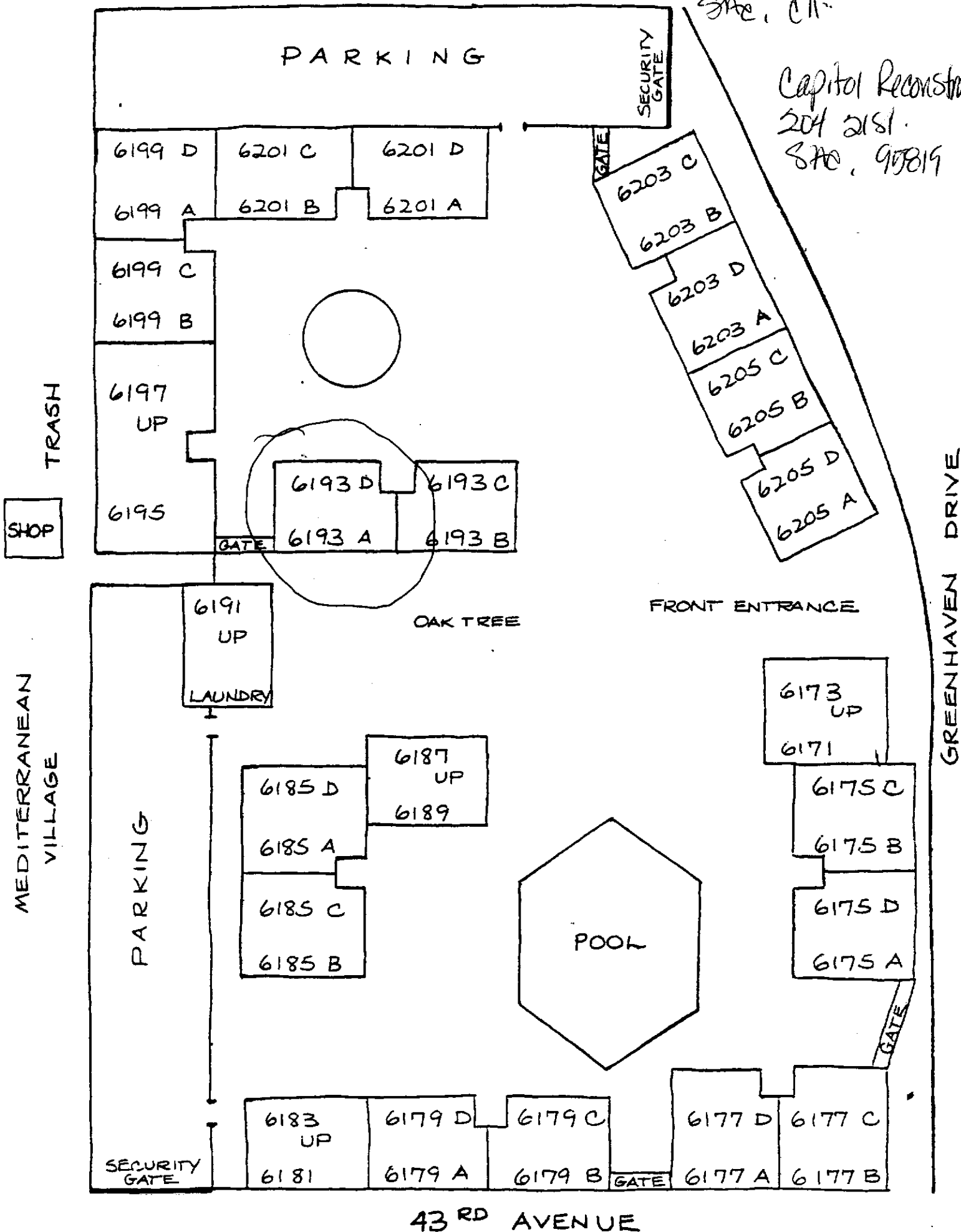
12/10/98

BUILDING INSPECTIONS 264-5716

INSPECTOR'S COPY

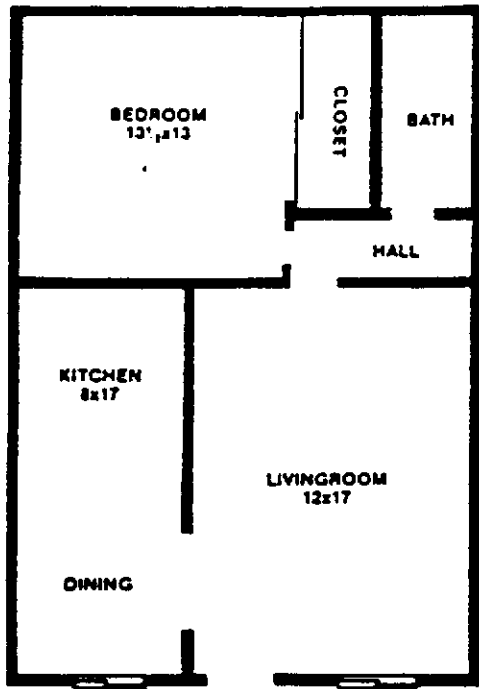
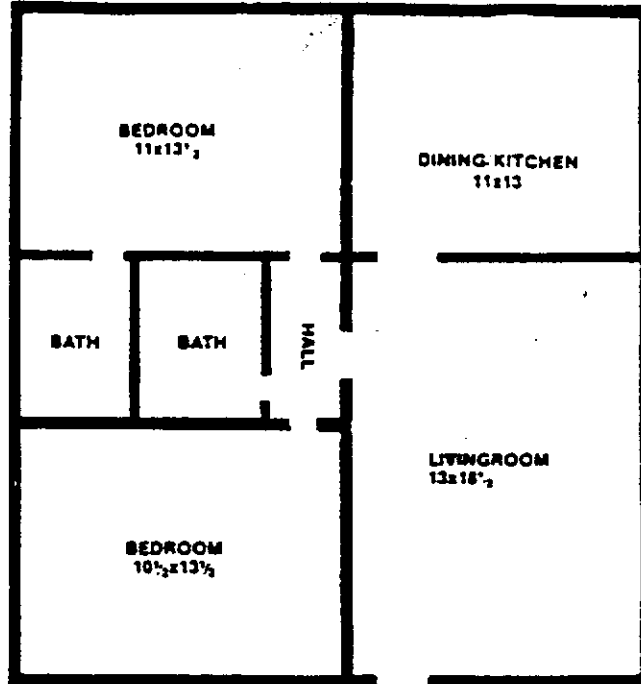
DOS ROBLES APARTMENTS - 6193D Greenhaven Dr. SFO, CA

Capitol Reconstruction
204 21st St.
SFO, 94109



43 RD AVENUE

Two bedroom two bath



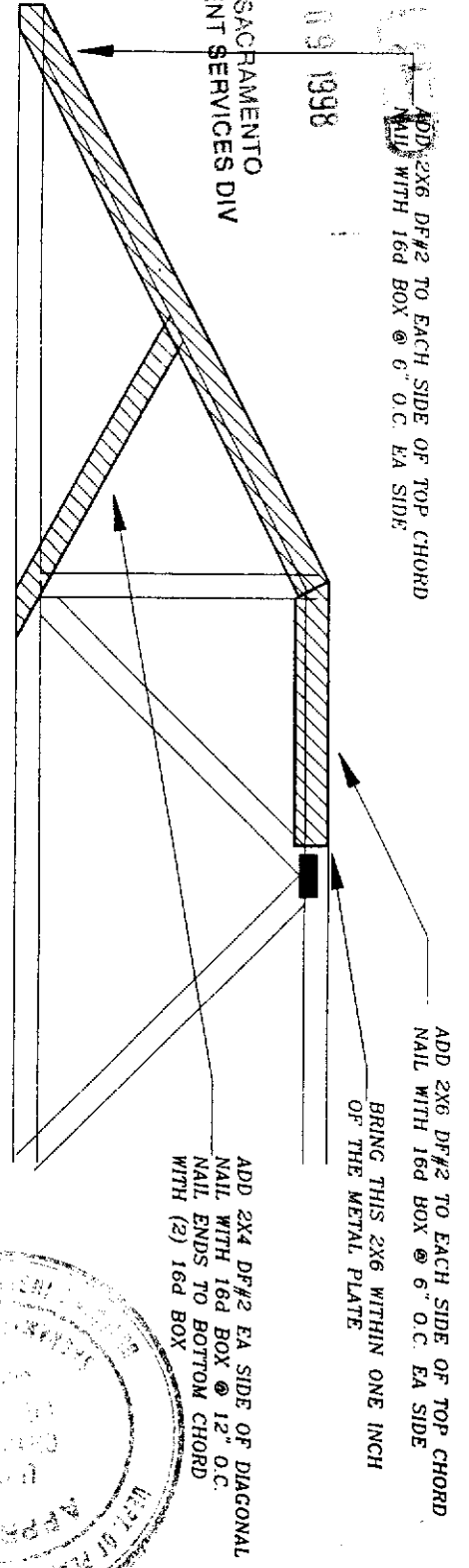
One bedroom one bath

Capitol Reconstruction
204 21st Street
Sac. 95814

1536
 ADD 2X6 DF#2 TO EACH SIDE OF TOP CHORD
 NAIL WITH 16d BOX @ 6" O.C. EA SIDE

DEC 09 1998

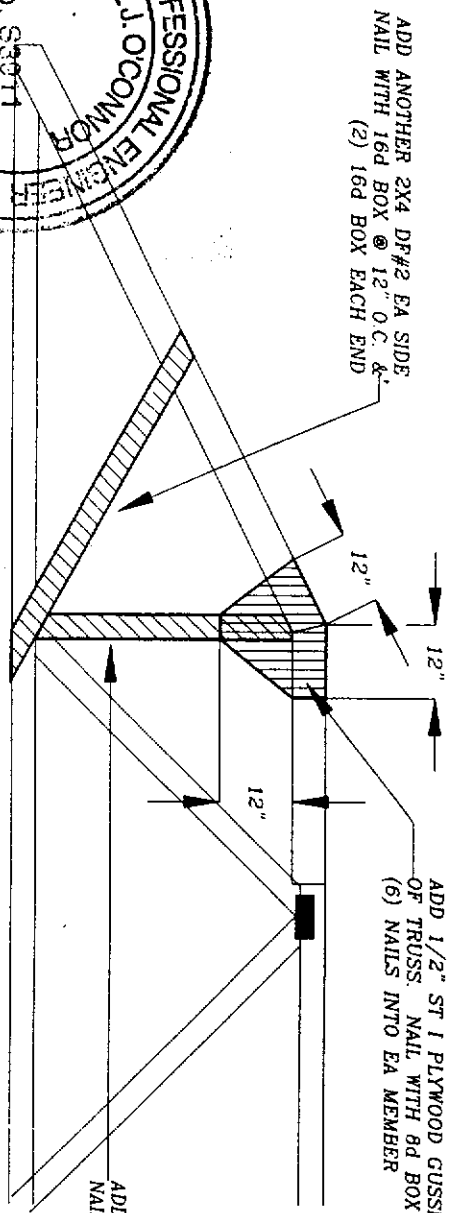
CITY OF SACRAMENTO
 DEVELOPMENT SERVICES DIV



FIRST STAGE OF REPAIR

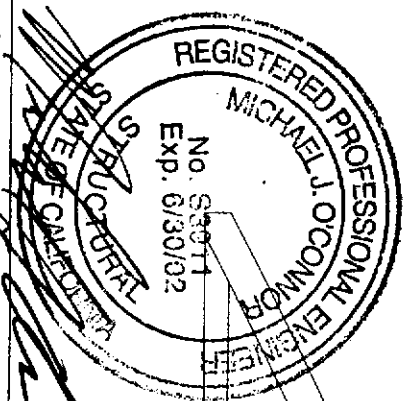
ADD ANOTHER 2X4 DF#2 EA SIDE
 NAIL WITH 16d BOX @ 12" O.C. &
 (2) 16d BOX EACH END

ADD 1/2" ST 1 PLYWOOD GUSSET EA SIDE
 OF TRUSS. NAIL WITH 6d BOX NAILS.
 (6) NAILS INTO EA MEMBER



SECOND STAGE OF REPAIR

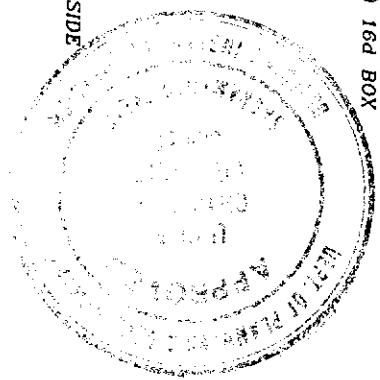
... and specifications must be
 ... of alterations from the
 ... of the State Law.
 ... and approval of the
 ... of the State Law.

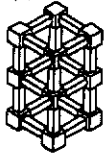


O'CONNOR ENGINEERS, INC.
 P.O. BOX 986
 EL DORADO, CA 95623-0986
 800.341-5721

REPAIR PLAN

Technician:	O'CONNOR	Job:	MED VILLAGE
Date:	11/15/98	Job Number:	981039





O'Connor Engineers, Inc.

Civil, Structural, Electrical & Forensic Engineering

November 17, 1998

Tami McLarty
Sequoia Insurance
8801 Folsom Blvd
Suite 190
Sacramento, CA 95826

CONTRACTOR
COPY # 1

COPY

CAPITOL RECONSTRUCTION

Re: Truss Damage Repair

Insured: Robert Robarts, dba Mediterranean Village
Claim Number: 98-02936
Date of Loss: 10/26/98
Loss Location: 920 43rd Avenue, Sacramento, CA 95814
Date of Assignment: 10/28/98
Date of Inspection: 10/30/98
Our File: 981039

Dear Ms. McLarty:

Assignment

You assigned O'Connor Engineers, Inc. to inspect the damaged roof structure at the above captioned loss. You wanted us to prepare a plan to repair the damaged roof.

Observations

The roof in question covered an apartment building. The roof was covered with a combination of tile (on the sloped portion) and built up roof (on the flat portion). The roof was framed with engineered wooden trusses. The trusses spanned 32 feet. The trusses were spaced at 24 inches on center. The bottom chord of the trusses supported a sheetrocked ceiling for the living spaces below.

A tree limb broke free and fell onto building on October 26, 1998. The limb impacted the sloped roof area adjacent to the chimney on the west slope of the roof near the NW corner. The tree limb broke through the plywood deck in some areas, broke one truss, and caused cosmetic damage to the overhang and gutter. See the attached photographs. The tree limb also caused cosmetic damage to the ceiling and walls of the dwelling below the area of impact.

We inspected the broken truss in the attic area. See photo 14. That truss had a broken top chord. The break in the chord was due to the tree limb impact. Our assigned task was to prepare a repair scheme for the broken truss.

Calculations

We first had to analyze the broken truss in order to calculate the internal forces on the truss members. Once that was done, we could develop a scheme to repair the truss in place. The following design assumptions were made during the analysis:

Roof live load on the sloped roof:	Lls = 16 psf
Roof live load on the flat roof:	Llf = 20 psf
Dead load on the sloped roof:	tile..... 9 psf
	Plywood..... 1.5
	Insulation..... 1.0
	Sheetrock..... 2.5
	Framing..... 3.0
	Misc..... 1.0
	Total..... 18 psf
Dead Load on the flat roof:	BUR..... 3 psf
	Plywood..... 1.5
	Insulation..... 1.0
	Sheetrock..... 2.5
	Framing..... 3.0
	Misc..... 1.0
	Total..... 12 psf

Wood framing: assume DF #2, E = 1.6 million psi, Fv = 95 psi, Fb = 900 psi, Cd = 1.25

The analysis showed that the broken truss chord was subject to the following loads and stresses:

Maximum axial compression = 2,210 pounds

Maximum bending moment = 90 ft-lbs

Maximum compression stress = 420 psi

Maximum bending stress = 360 psi

Maximum shear stress = 26 psi

The analysis showed that a 2x4 could easily resist all of the imposed loads under regular service.

The diagonal member that supported the mid-point of the chord was subject to 330 pounds of compression load and no bending. Again, a 2x4 could easily resist that load.

We determined that the broken chord could be left in place after jacking the member back into position. Once back into position, the top chord should be reinforced with a 2x6 DF#2 on each side.

The diagonal member should be built out with an additional 2x4 on each side, then reinforced with a 2x6 on each side of that. Nailing was figured with 16 penny box nails. Each nail has a rated load of 103 pounds with 1-1/2 inch side members. The rated load can be increased by 1.25 for duration of loading.

Number of nails required for diagonal load transfer = $330 \text{ pounds} / 103 \times 1.25 \times 2 \text{ sides} = 2 \text{ nails}$
Therefore, nail each side member with 2-16d at each end.

Number of nails required for load transfer to chord = $2,210 \text{ pounds} / 103 \times 1.25 \times 2 \text{ sides} = 9 \text{ nails}$
Therefore, nail each side member with 16d @ 6" o.c. This yields 9 nails at each end.

See the attached plan for the repair scheme in graphic form.

Conclusions

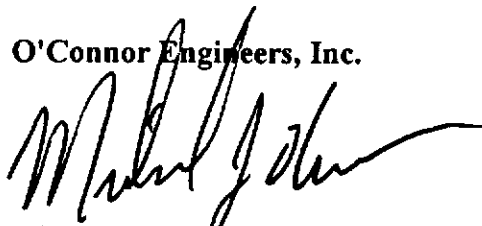
Only one truss was damaged by the tree limb. That truss can be repaired in place per the attached repair scheme. Once the repair is completed, the contractor shall contact the engineer for a framing inspection prior to close-in.

Other repairs shall include replacement of all damaged roof deck. The contractor shall nail new roof deck using the same nailing pattern as exists now. Appropriate repairs to gutters, overhang deck, sheetrock, and other cosmetic items shall also be included.

Thank you for calling O'Connor Engineers, Inc. If you have any questions about this report, please call me.

Sincerely,

O'Connor Engineers, Inc.

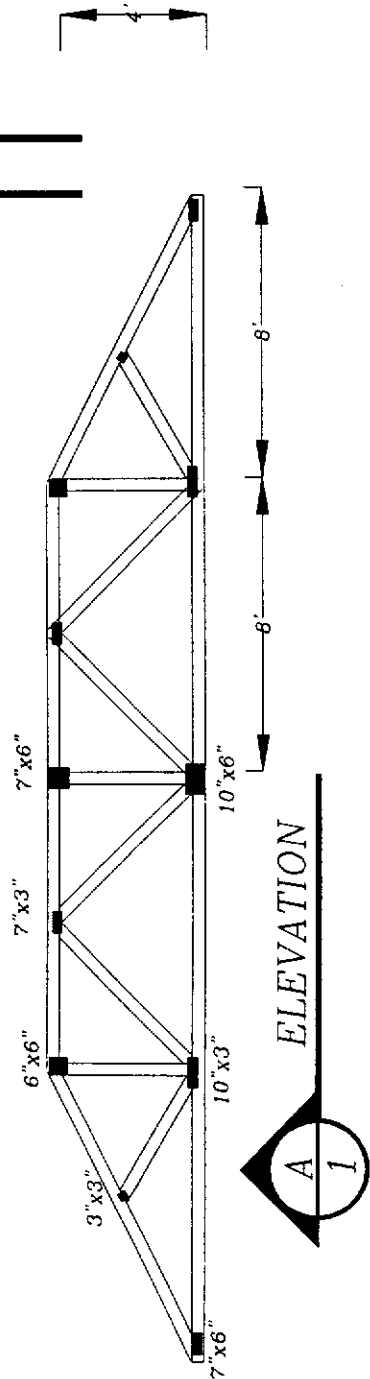
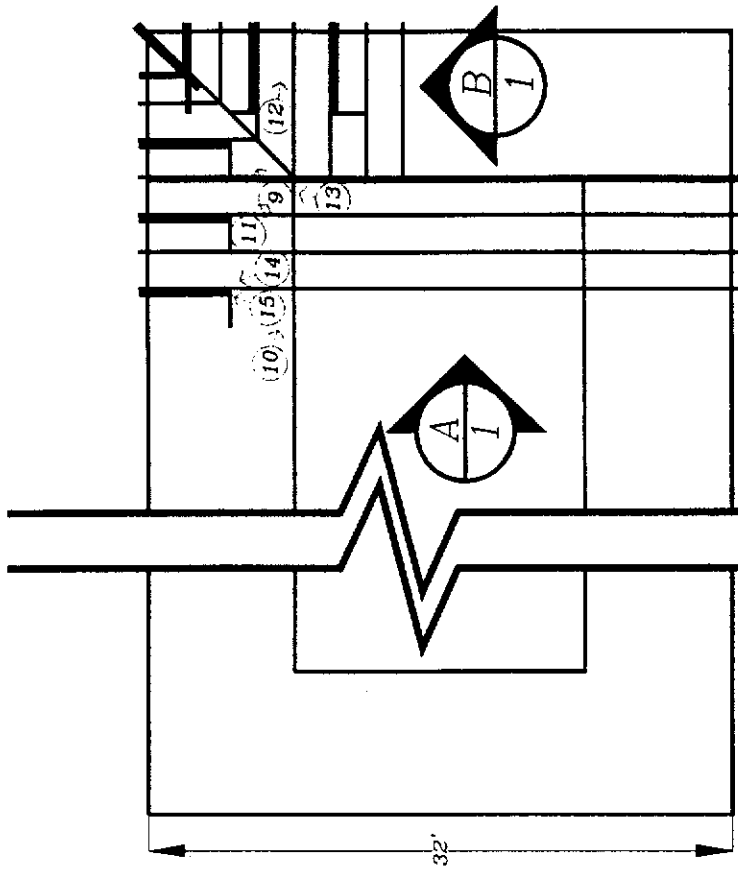
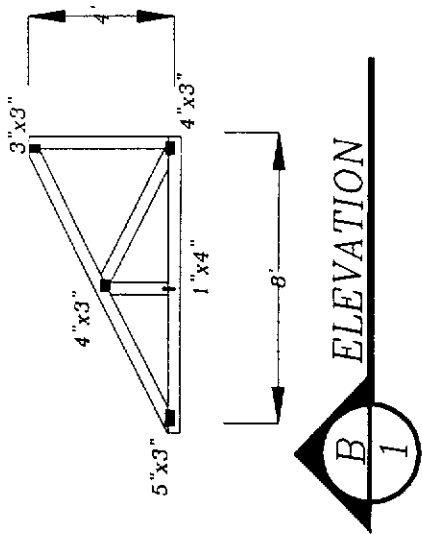


Michael J. O'Connor, P.E.

REGISTERED STRUCTURAL ENGINEER NO. 3911
REGISTERED CIVIL ENGINEER NO. 33404
REGISTERED ELECTRICAL ENGINEER NO. 12719



enclosures: photos, sketches, calculations



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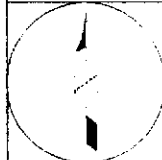
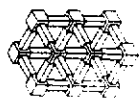


Photo Number
Two, Arrow
Indicates Angle.

(2)

PROFESSIONAL ARCHITECTURE INC.
P.O. BOX 986
EL DORADO, CA 95623-0986
800-341-5721



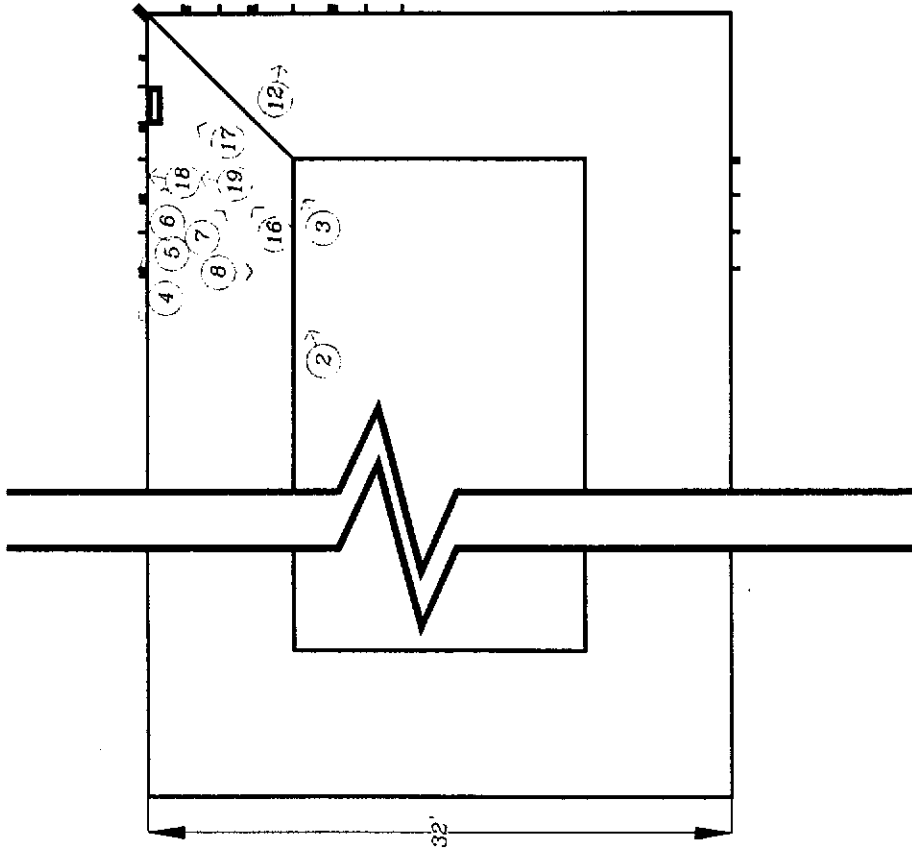
Technician: VERGARA

Job: MED VILLAGE

Date: 10/30/98

Job Number: 981039

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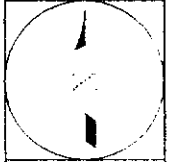


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Two. Arrow
Indicates Angle.

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LEND
P.O. BOX 986
EL DORADO, CA 95623-0986
800-341-5721

Technician: VERGARA

Job: MED VILLAGE

Date: 10/30/98

Job Number: 981039