

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 9909183
Insp Area: 2

Site Address: 10 CLEAR RIVER CT SAC
Parcel No 031-0320-049

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

CONTRACTOR
YANCY BROS
525 ALPINE AV #D
SACRAMENTO CA 95826

OWNER
FRIEDLI RAYMOND D
10 CLEAR RIVER CT
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: 50SQ TEAR OFF AND REROOF WITH TILE/50 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.

X License Class B License Number 731709 Date 8-25-99 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 herefrom 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.

X Date 8-25-99 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 VILLANOVA INS CO Policy Number WC2-0983698 Exp Date 11/01/1999 [Signature]

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 8-25-99 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.

10 Clear River Ct
990983R

FRIEDLE



Paul Zacher - Structural Engineers
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960

July 2, 1999

Yancey Brothers Roofing
8250 Alpine Ave, Suite A
Sacramento, CA 95826
TEL: (916) 457-5113
FAX: (916) 457-5427

Attn.: Mr. Doug Homer,

re: Job 99148: FRIEDLE

This set of plans and specifications are prepared for the job at above and it is understood that no changes shall be made without written permission from the Building Inspection Division.

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



Subject: Structural Investigation Report of the Roof for the Residence located at 10 Clear River Court, Sacramento, CA 95831.

As requested by Mr. Doug Homer, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site July 2, 1999. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report is based on the 1997 Uniform Building Code.

The following is based on visual observations with no subsurface investigation being made.

DESCRIPTION:

Type of Facility:	Residence.	AUG 25 1999
Year Built:	Estimated 1970's vintage.	
Occupancy:	Residential.	
No. of Stories:	One.	
Dimensions:	Approximately 2500 square feet with a first story plate height of 8 feet.	

CONSTRUCTION:

Roof:

The roof covering will consist of Bartile Light Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 6'-0" on center by 2x4 struts bearing on walls below except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x6 rafters spaced at 24" on center supported at the ridge by a 6x beam. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.

CONCLUSIONS:

Roof:

The living area has sufficient structural capacity for the applied live and dead loads. The garage lacks sufficient structural capacity for the applied live and dead loads.

Reviewed by MGT P. 8/23/99
1/16 See structural work required.

10 CLEAR RIVER CT
SACRAMENTO, CA 95831
916-457-5113

FRIEDLE



Paul Zacher - Structural Engineers
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960

RECOMMENDATIONS:

If any of the following recommendations do not correspond to actual field conditions, the engineer of record shall be notified for further investigation and evaluation before continuing work.

Garage:

1. Scab a 1 3/4" x 11 7/8" microlam beam to the existing 2x6 crosstie and nail together with 16d's @ 12" oc. The end of the microlam may be clipped as required to meet the slope of the rafters. The support at the interior wall shall be a 2x8 x 2'-8" long ledger attached to the double top plate with 16d's @ 2" oc staggered. Support the ridge/ valley/ hip connection to the microlam beam or bearing wall below with 2x4 struts. The unbraced length of the struts shall not exceed 8'-0" and the minimum slope of the struts shall not be less than 45 degrees from the horizontal. See details 1 and 2.

It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and are not an indication of a structural hazard or failure.

It shall be noted that some deflection of the rafters may be evident after installation of the tile. The existing roof framing has deflected but this may not be readily evident due to the uneven nature of the existing roofing material. Concrete tile is a very consistent and uniform product and when installed in an even plane, even small deflections can become apparent. This is only a cosmetic issue and not a structural concern.

The inspection consisted of visual observation only, made solely to determine the structural capacity of the existing roof. Analysis does not determine any effects on the overall structure under lateral forces or effects on the foundation unless specifically noted in the calculations and in this document. No warranties, expressed or implied, are made or intended in conjunction with this report. The inspection was made only to the portions that were accessible. The specific items noted were those that were observable and there may be defects which are not observable, or are hidden by architectural and structural materials.

If you have any questions on the above, do not hesitate to call.

Sincerely,

Paul Zacher, P.E., S.E.
file

DESIGN LOADING:

Roof Pitch	8	in 12
Pitch Adjustment Factor	1.20	

LOCATION: ROOF

<u>MATERIAL</u>		<u>WEIGHT</u>	
Bartile Light Weight	7.00	psf	
Roofing felt	0.30	psf	
1x4 skip sht'g	1.09	psf	
1/2" OSB/ plywood	1.50	psf	
2x6 rafters @ 24" oc	<u>1.00</u>	psf	
	Load	10.9	psf
	Roof Pitch Adjustment	<u>2.20</u>	psf
	Total Load	13.1	psf

LOCATION: VAULT

<u>MATERIAL</u>		<u>WEIGHT</u>	
Bartile Light Weight	7.00	psf	
Roofing felt	0.30	psf	
1/2" OSB/ plywood	1.50	psf	
1x4 skip sht'g	1.09	psf	
2x6 rafters @ 24" oc	1.00	psf	
Batt/blown insul	0.50	psf	
1/2" Gypboard	<u>2.50</u>	psf	
	Load	13.9	psf
	Roof Pitch Adjustment	<u>2.80</u>	psf
	Total Load	16.7	psf

Description RAFTERS AND BEAMS

Timber Member Information Calculations are designed to 1997 NDS and 1997 UBC Requirements

	rafter	patio	vault	vault support	microlam	garage hdr
Timber Section	2x6	4x14	6x12	4x14	LVL:1.750x	4x12
Beam Width	in: 1.500	3.500	5.500	3.500	1.750	3.500
Beam Depth	in: 5.500	13.250	11.500	13.250	11.875	11.250
Le: Unbraced Length	ft: 2.00	2.00	0.00	0.00	0.00	0.00
Timber Grade	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Truss Joist - MacMil	Douglas Fir - Larch
Fb - Basic Allow	psi: 875.0	875.0	1,350.0	875.0	2,600.0	875.0
Fv - Basic Allow	psi: 95.0	95.0	85.0	85.0	285.0	95.0
Elastic Modulus	ksi: 1,600.0	1,600.0	1,600.0	1,300.0	1,800.0	1,600.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Sawn	Sawn	Sawn	Manuff/Pine	Sawn
Repetitive Status	Repetitive	No	No	No	No	No

Center Span Data

Span	ft:	11.75	19.00	17.00	13.00	21.50	16.00
Dead Load	#/ft:	26.20	92.00	167.00			92.00
Live Load	#/ft:	32.00	112.00	160.00			112.00
Point #1 DL	lbs:				1,419.00	524.00	262.00
LL	lbs:				1,360.00	640.00	320.00
@ X	ft:				3.000	10.750	14.500

Results Ratio =

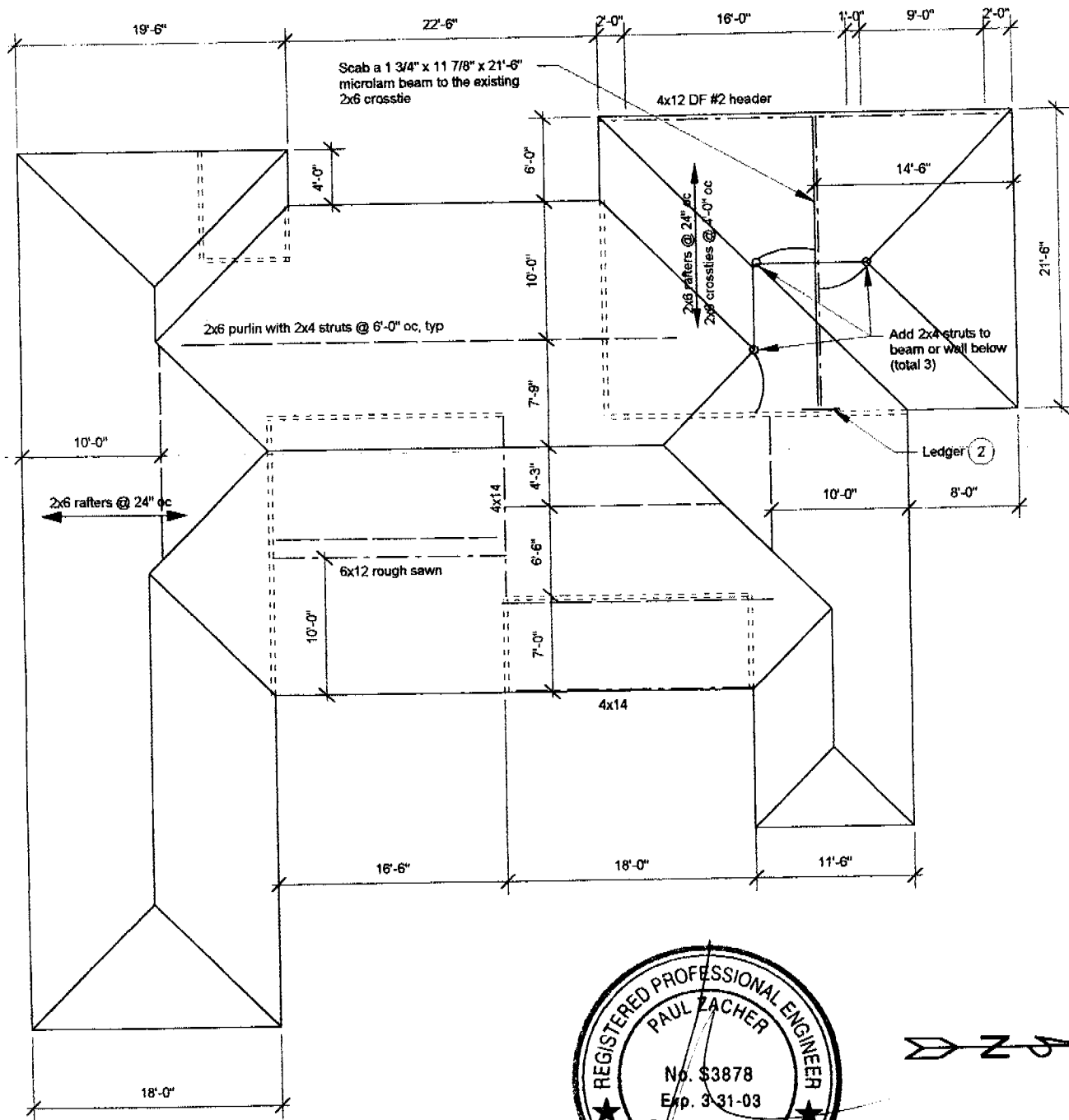
Ratio =		0.9933	0.9907	0.6929	0.6859	0.5617	0.9419
Mmax @ Center @ X =	in-k/ft:	12.05	110.47	141.75	76.83	75.08	83.66
	ft:	5.87	9.50	8.50	3.02	10.75	8.26
f _b : Actual	psi:	1,593.8	1,078.6	1,169.3	750.2	1,825.4	1,133.2
F _b : Allowable	psi:	1,604.5	1,088.8	1,687.5	1,093.8	3,250.0	1,203.1
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
f _v : Actual	psi:	57.7	55.7	58.5	69.1	42.0	75.3
F _v : Allowable	psi:	118.8	118.8	106.3	106.3	356.3	118.8
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End DL	lbs:	153.92	874.00	1,419.50	1,091.54	262.00	760.56
LL	lbs:	188.00	1,064.00	1,360.00	1,046.15	320.00	926.00
Max. DL+LL	lbs:	341.92	1,938.00	2,779.50	2,137.69	582.00	1,686.56
@ Right End DL	lbs:	153.92	874.00	1,419.50	327.46	262.00	973.44
LL	lbs:	188.00	1,064.00	1,360.00	313.85	320.00	1,186.00
Max. DL+LL	lbs:	341.92	1,938.00	2,779.50	641.31	582.00	2,159.44

Deflections

Center DL Defl	in:	-0.338	-0.248	-0.281	-0.083	-0.426	-0.220
L/Defl Ratio		417.6	917.5	725.0	1,873.0	604.9	871.3
Center LL Defl	in:	-0.412	-0.303	-0.270	-0.080	-0.521	-0.268
L/Defl Ratio		341.9	753.7	756.7	1,954.3	495.3	715.6
Center Total Defl	in:	-0.750	-0.551	-0.551	-0.163	-0.947	-0.489
Location	ft:	5.875	9.500	8.500	5.720	10.750	8.064
L/Defl Ratio		188.0	413.8	370.3	956.4	272.3	392.9



Notes:

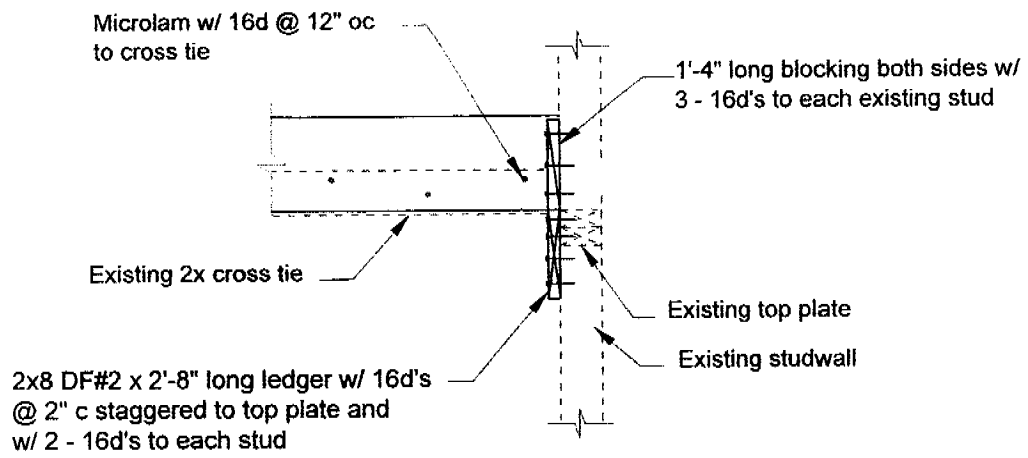
1. This is a reroof project. The new roofing material shall be a Bartile Light Weight Concrete Tile.
2. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
3. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2326.12 "Roof and Ceiling Framing" unless otherwise shown.

1

ROOF PLAN - FRIEDLE

Not to Scale

5



2

LEDGER CONNECTION

scale: 1/2" = 1'-0"

φ



DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1231 I STREET
ROOM 200
SACRAMENTO, CA
95814-2998

Permit Services
916-264-7619
FAX 916-264-7046

TILE ROOF WORKSHEET

This worksheet must be filled out whenever any type of tile roof is applied for.

If the answer to question #5 is yes, a written engineering report from a registered engineer must be provided with each application.

1. BRAND AND MODEL OF TILE Bartile Slit Timber
2. TILE WEIGHT PER SQUARE See Attach
3. WEIGHT OF ROOF SYSTEM PER SQUARE _____
4. TOTAL WEIGHT OF ROOF SYSTEM _____
5. DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
6. ROOF SLOPE _____

PLEASE PROVIDE A SEPARATE WORKSHEET FOR EACH APPLICATION INVOLVING A TILE ROOF.

P
YANCEY BROTHERS ROOFING

Friedle

Paul Zacher - Structural Engineer
4701 Lakeside Way
Fair Oaks, CA 95628

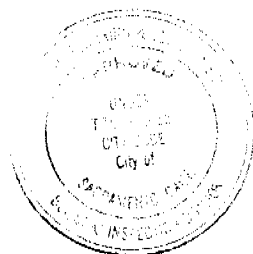
TEL: (916) 961-3960
FAX: (916) 961-3960

July 25, 1999

Yancey Brothers Roofing
8250 Alpine Ave, Suite A
Sacramento, CA 95826

TEL: 916) 457-5113
FAX: (916) 457-5427

Attn.: Doug Homer



This set of plans and specifications must be kept on the job at all times and it is understood that any changes or additions to the plans must be approved in writing by the Building Department City of Sacramento.
The approval of this plan by the Building Department SHALL NOT be held to prevent or excuse the violation of any City Ordinance or State Law.

re: Job 99148: Friedle residence located at 10 Clear River Court, Sacramento, CA

subject: Contract Change Order Number 1

The microlam beam in the garage may be attached to the garage header and to the interior wall per the attached detail #1.

ISSUED

AUG 25 1999

CITY OF SACRAMENTO
DEVELOPMENT DEPARTMENT

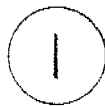
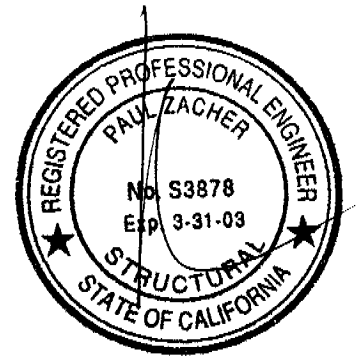
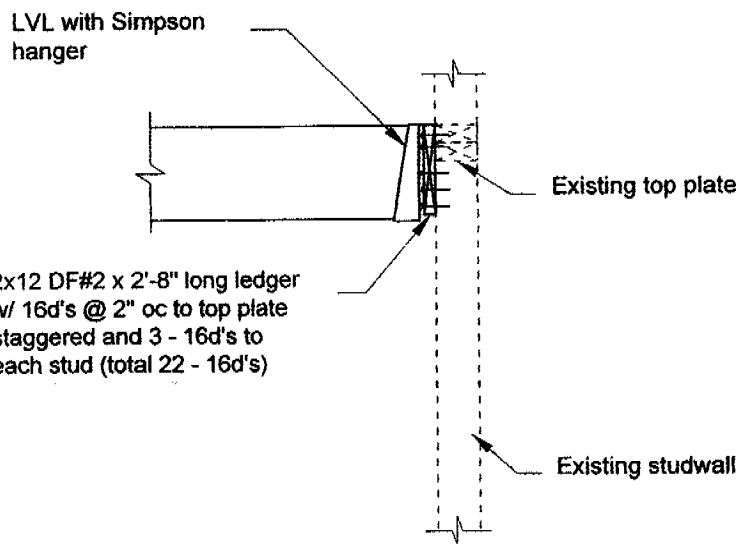


If you have any questions on the above, do not hesitate to call.

Sincerely,

Paul Zacher, P.E., S.E.

1/2



LEDGER CONNECTION

scale: 1/2" = 1'-0"

2