

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0011720
Insp Area: 2

Site Address: 792 PARKLIN AV SAC
Parcel No: 030-0082-012

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

CONTRACTOR

OWNER

ARCHITECT

WINNEKER SCOTT W/LAVONNA G
792 PARKLIN AV
SACRAMENTO CA 95831

Nature of Work: RE-SUPPORT GARAGE RAFTERS. REROOF 32 SQS. 45 YR. ASPHALT SHINGLES.

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: _____

Date 10/5/00 _____ 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 10/5/00 _____ Applicant/Agent 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 exempt Policy Number _____ Exp Date _____

_____, (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 10/5/00 _____ Applicant 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.

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/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 _____ Address _____

City _____ Telephone _____

Contractors License No. _____

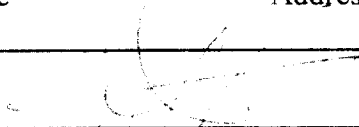
4. I plan to provide portions of the work, but I have hired the following person to coordinate, Supervise, and provide the major work.

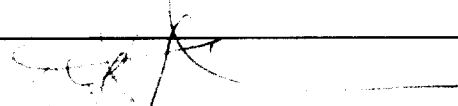
Name _____ Address _____

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:

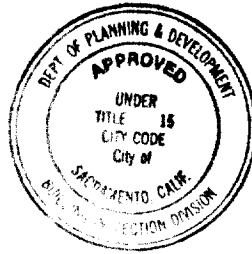
Name	Address	Phone	Type of work
			

Signed  _____

Job Address 1924 W. LINCOLN AVE

Permit No: _____

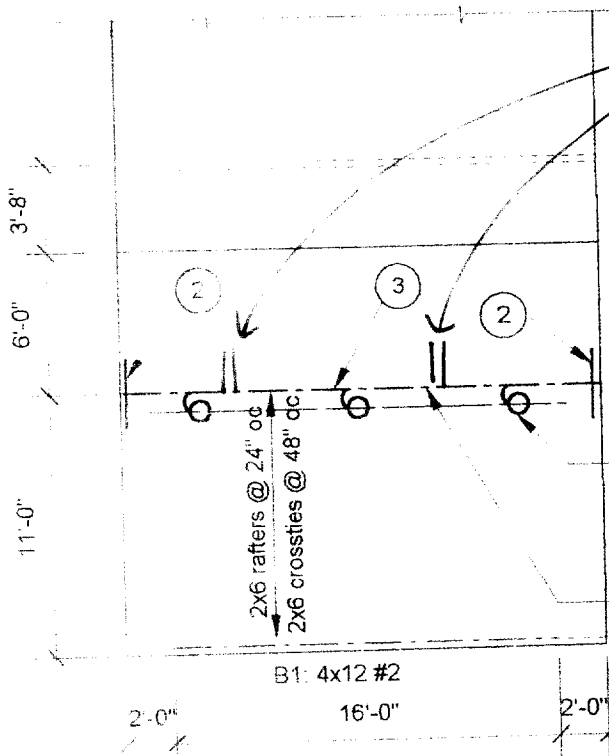
ADDRESS: 792 PARKLIN AVE
 PERMIT # 0011720R



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.

REVIEWED BY:
Paul Zacher
 10/12/00



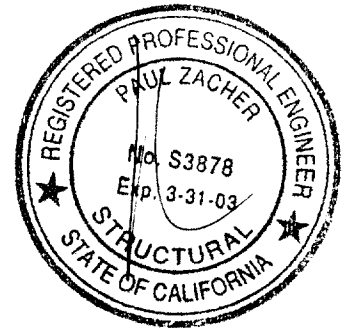
ADD BLKG BTWN LVL & ADJACENT FRAMING AT TOP & BOTTOM OF LVL AND AT ONE THIRD INTERVALS ALONG ITS LENGTH

Add 2x4 struts from the existing 2x6 purlin to the LVL below (total 3).

Add a 1 3/4" x 14" LVL (B2) beam. Cut and strap the existing cross ties as required. See detail 3.

Notes

- This is a reroof project. The new roofing material shall be a Composition Tile. The composition tile shall weigh less than or equal to 4.0 psf.



1

GARAGE ROOF PLAN - WINNEKER

Not to Scale

Winneker

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

TEL: (916) 961-3960
FAX: (916) 961-6552

October 5, 2000

Winneker
792 Parklin Avenue
Sacramento, CA 95831
TEL: (916) 395-3855
FAX: (916) 393-5340

Attn: Mr. Winneker

re: Job 2000307 Winneker residence located at 792 Parklin Avenue, Sacramento, CA

subject: Contract Change Order Number 2

The LVL to Ledger connection as shown on detail 1 on the following page may be used in lieu of the connection as shown on detail 2 of the report dated September 21, 2000.

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

Sincerely,

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



1/2

Winneker

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

TEL: (916) 961-3960
FAX: (916) 961-6552

September 29, 2000

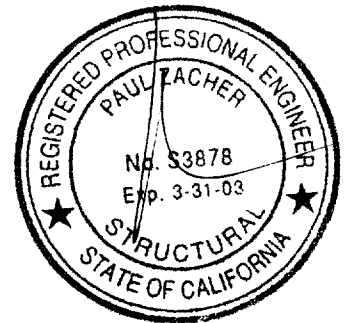
Winneker
792 Parklin Avenue
Sacramento, CA 95831
TEL: (916) 395-3855
FAX: (916) 393-5340

Attn: Mr. Winneker

re: Job 2000307: Winneker residence located at 792 Parklin Avenue, Sacramento, CA

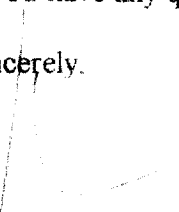
subject: Contract Change Order Number 1

A total of 11 wood screws may be used in lieu of the 16d nails to attach the 2x8 ledger to the wall per detail 2 of the report dated 9/21/2000. The wood screws shall be a minimum 10 gage (0.190" diameter) and a minimum of 3 1/2" long.



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

Sincerely,


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

Handwritten mark

WOOD SCREWS: (UBC 2339)

STANDARD DETAIL S-13

Thickness of side member, t_s	2 1/8 inches	
Wood screw gage, 6d etc	10d	
Diameter of screw, D	0.190 inches	
Length of screw, L	3.500 inches	
Main member width (perp. to side member)	1 1/2 inches	
Dowel bearing strength of side member, F_{es}	4,650 psi	Table 23-III-B13, Doug-fir Larch
Dowel bearing strength of main member, F_{em}	4,650 psi	Table 23-III-B13, Doug-fir Larch
Bending yield strength of wood screw, F_{yb}	80,000 psi	
Penetration factor, C_d	1.00	
Wood screw penetration p_{min}	0.76	
p_{max}	1.33	
Load duration factor, C_d	1.25	
Nominal lateral design values		
Z, MODE Is	978 lbs per screw	Bearing yield failure of side plate
Z, MODE IIIs	343 lbs per screw	Fastener yield and bearing yield of side of main member
Z, MODE IV	196 lbs per screw	Fastener yield
Total Load =	2070 lbs	
No. of Screws Required =	11	

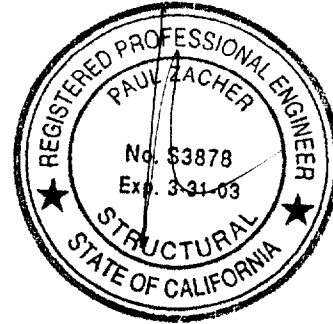
Winneker

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

TEL: 916.961.3960
FAX: 916.961.6552

September 21, 2000

Winneker
792 Parklin Avenue
Sacramento, CA 95831
TEL: (916) 395-3855
FAX: (916) 393-5340



Attn: Mr. Mr. Winneker,

re. Job 2000_307: WINNEKER

Subject: Strengthening of the Garage Roof of the Residence located at 792 Parklin Avenue, Sacramento, CA 95831

As requested by Mr. Mr. Winneker, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof.

The following is based on information provided to Paul Zacher by Mr. Winneker on 9/8/2000.

DESCRIPTION:

Type of Facility: Residential Garage.
No. of Stories: One.
Dimensions: Approximately 420 square feet.

CONSTRUCTION:

Roof:
The roof covering will consist of a Composition Tile over 1/2" solid sheathing. 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 garage lacks sufficient structural capacity for the applied live and dead loads.

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. Add a 1 3/4" x 14" LVL beam. 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 existing purlin to the LVL beam with 2x4 struts spaced at no more than 6'-0" oc. See details 1, 2 and 3.

Winneker

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

TEL: 916.961.3960
FAX: 916.961.6552

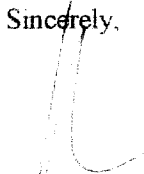
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls that are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and 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 that 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	4	in 12
Pitch Adjustment Factor	1.05	

LOCATION: ROOF

<u>MATERIAL</u>		<u>WEIGHT</u>	
Composition Tile	4.00	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	7.9	psf
	Roof Pitch Adjustment	<u>0.43</u>	psf
	Total Load	8.3	psf

P. K. Zacher S.E.

4701 Lakeside Way
Fair Oaks, CA 95628
TEL: (916) 961-3960
FAX: (916) 961-6552

Job # 11 457

Date: 9/2/00

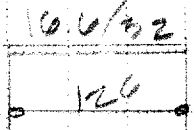
10013 JV

24 FT L

W - 3" DST x 5' : 1600#

W - 3" DST x 5' : 1600#

12x10 #2

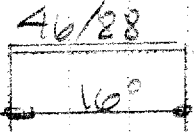


10014 JV

W - 3" DST x 5' : 4600#

W - 3" DST x 5' : 4600#

4x12 #2

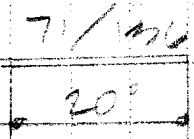


10015 JV

W - 3" DST x 5' : 7100#

W - 3" DST x 5' : 7100#

1/4" x 14" W/L



Paul Zacher - Structural Engineers
 4701 Lakeside Way
 Fair Oaks
 TEL: (916) 961-3960
 FAX: (916) 961-6552

Title :
 Dsgnr:
 Description :
 Scope :

Job #
 Date: 2:54PM, 21 SEP 00

Rev: 010304
 User: KW-0602844, ver: 6.1.1, 27 Jun 1999, Win32
 © 1983-99 ENERCALC

Timber Beam & Joist

c:\enercalc\test.ecw\Calculations

Description RAFTERS AND BEAMS

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

	rafter	B1	B2
Timber Section	2x6	4x12	LVL:1.750x
Beam Width	in: 1.500	3.500	1.750
Beam Depth	in: 5.500	11.250	14.000
Le - Unbraced Length	ft: 0.00	0.00	4.00
Timber Grade	Douglas Fir - Larch, Douglas Fir - Larch/russ Joist - MacMillan		
Fb - Basic Allow	psi: 875.0	875.0	2,600.0
Fv - Basic Allow	psi: 95.0	95.0	285.0
Elastic Modulus	ksi: 1,600.0	1,600.0	1,900.0
Load Duration Factor	1.250	1.250	1.250
Member Type	Sawn	Sawn	Manuf/Pine
Repetitive Status	Repetitive	No	No

Center Span Data

	ft	ft	ft
Span	12.50	16.00	20.00
Dead Load	#/ft: 16.60	46.00	71.00
Live Load	#/ft: 32.00	88.00	136.00

Results

Ratio = 0.9211 0.5793 0.9496

Mmax @ Center	in-k	11.39	51.46	124.20
@ X =	ft	6.25	8.00	10.00
fb Actual	psi	1,506.2	697.0	2,172.6
Fb - Allowable	psi	1,635.2	1,203.1	2,287.8
		Bending OK	Bending OK	Bending OK
fv Actual	psi	51.3	36.3	112.5
Fv - Allowable	psi	118.8	118.8	356.3
		Shear OK	Shear OK	Shear OK

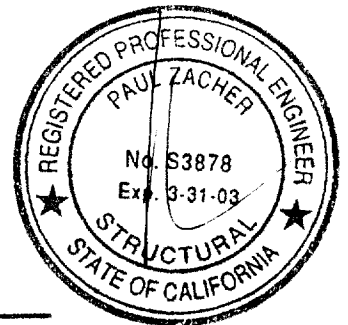
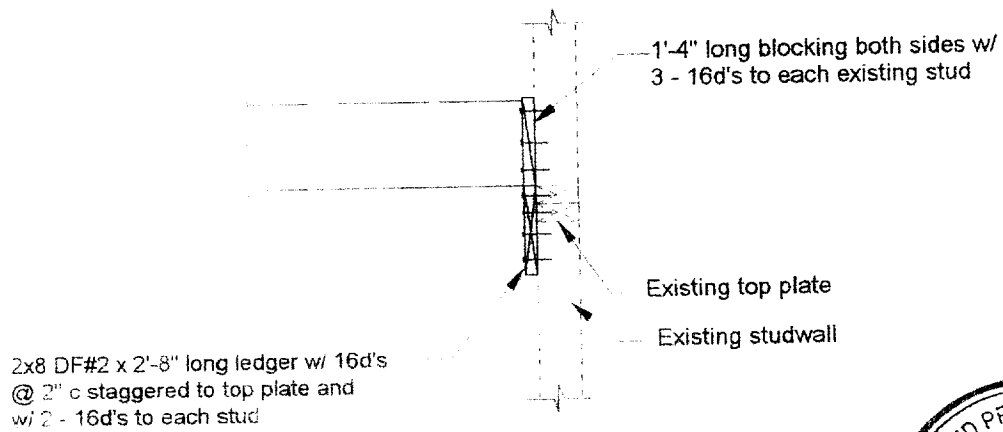
Reactions

@ Left End	DL	lbs	103.75	368.00	710.00
	LL	lbs	200.00	704.00	1,360.00
	Max. DL+LL	lbs	303.75	1,072.00	2,070.00
@ Right End	DL	lbs	103.75	368.00	710.00
	LL	lbs	200.00	704.00	1,360.00
	Max. DL+LL	lbs	303.75	1,072.00	2,070.00

Deflections

Ratio OK Deflection OK Deflection OK

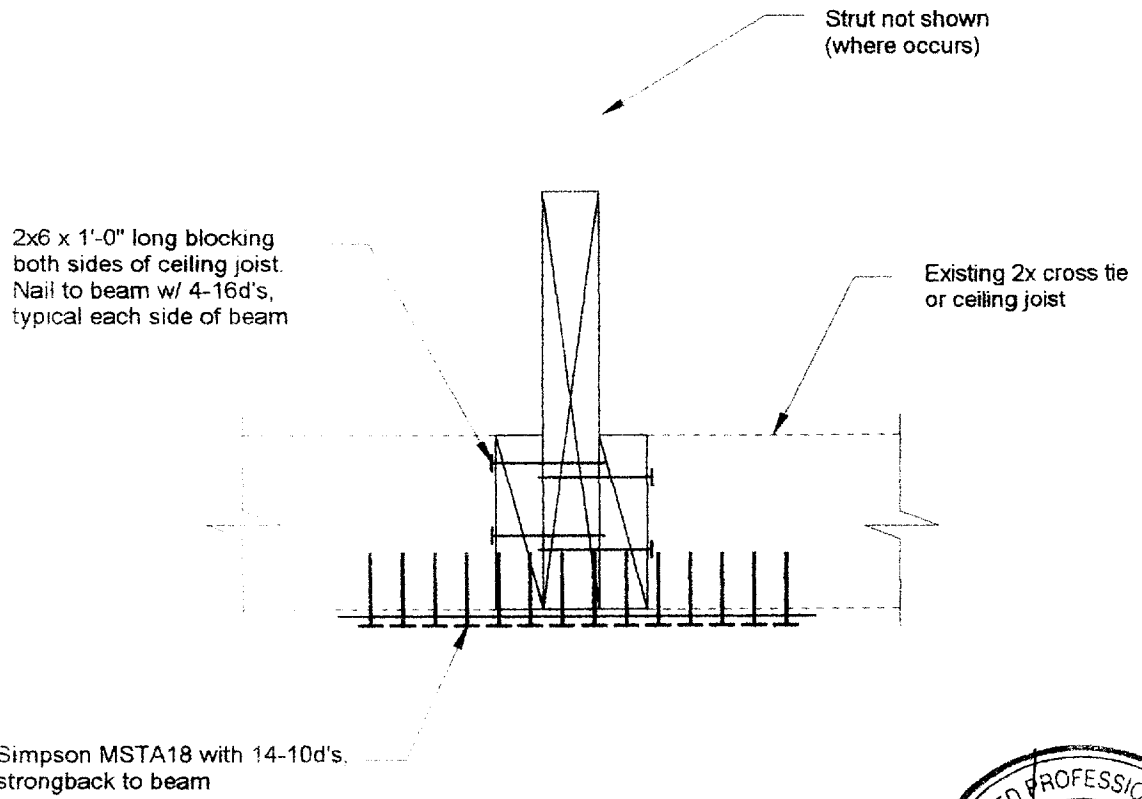
Center DL Defl	in	-0.274	-0.102	-0.336
L/Defl Ratio		547.4	1,880.9	713.9
Center LL Defl	in	-0.528	-0.195	-0.644
L/Defl Ratio		284.0	983.2	372.7
Center Total Defl	in	-0.802	-0.297	-0.980
Location	ft	6.250	8.000	10.000
L/Defl Ratio		187.0	645.7	244.9



2

LEDGER CONNECTION

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



3

STRONGBACK DETAIL

No scale

Winneker:



September 29 2000

Winneker
792 Parklin Avenue
Sacramento, CA 95831

TEL: (916) 395-3855

FAX: (916) 393-5340

Attn: Mr. Winneker

re: Job 2000307: Winneker residence located at 792 Parklin Avenue, Sacramento, CA

subject: Contract Change Order Number 1

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

Sincerely,

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

CITY OF SACRAMENTO
PERMIT ASSISTANCE

OCT 02 2000

RECEIVED

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