

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0415389

Insp Area: 3

Thos Bros:

Sub-Type: ACOM

Housing (Y/N): N

Site Address: 8251 ALPINE AV SAC

Parcel No: 061-0071-025

CONTRACTOR

KEARNEY CONSTRUCTION INC
PO BOX 478
LOOMIS CA 95650

OWNER

HOWARD JONES INVESTMENTS
8251 ALPINE AVE
SACRAMENTO, CA, A. 95826

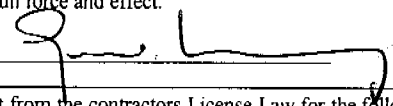
ARCHITECT

Nature of Work: 10,710 SF ADDITION, TILT-UP, MANUFACTURING/WAREHOUSE SHELL ONLY

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 636303 Date 4-8-05 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 Professions 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 or 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).

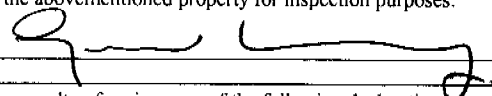
PAID
CITY OF SACRAMENTO
APR 13 2005
NORTH PERMIT
CENTER

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 a 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 4-8-05 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 STATE FUND Policy Number 1796647 Exp Date 08/01/2005

(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 4-8-05 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.



SCHETTER ELECTRIC, INC.
CONTRACTING AND ENGINEERING

0415389

September 30, 2005

Kearny Construction Company
P.O. Box 478
Loomis, CA 95650

Attention: Gerry Kearny

Reference: Foremost Building Addition
8251 Alpine Avenue, Sacramento, CA
SEI #162000

Subject: Short Circuit Analysis

Dear Gerry:

The SMUD Commitment Package for the above referenced project, indicates a maximum fault current of 44,200 amps symmetrical at the transformer secondary terminals for the new 1000 amp service.

We have performed a short circuit (fault) study to determine the maximum fault current at the new main switchboard by taking into account the 205' of secondary service conductors. The study shows that the maximum fault current at the new switchboard is reduced to 20,004 amps symmetrical. The new main switchboard is braced and rated at 42,000 amps of interrupting capacity.

Attached for your perusal is a copy of the complete short circuit study of the new electrical service. Please refer to the fault analysis summary for a quick comparison of short circuit values.

Please feel free to call if you have any questions.

Respectfully submitted,

Carlos E. Lora
Engineering Manager

***** PRE - FAULT VOLTAGE PROFILE *****

BUS#	NAME	BASE VOLTS	PU VOLTS	ANGLE (D)
	BUS-MSB	208.00	1.0000	0.
	BUS-TERM	208.00	1.0000	0.

***** FAULT ANALYSIS REPORT *****

FAULT TYPE: 3PH
MODEL INDUCTION MOTOR CONTRIBUTION: YES
MODEL TRANSFORMER TAPS: YES
MODEL TRANSFORMER PHASE SHIFT: YES

BUS-MSB VOLTAGE BASE LL: 208.0 (VOLTS)
INI. SYM. RMS FAULT CURRENT: 20004.6 / -64. (AMPS/DEG)
THEVENIN EQUIVALENT IMPEDANCE: 6.181 +j 12.423 (PU)
THEVENIN IMPEDANCE X/R RATIO: 2.010

ASYM RMS INTERRUPTING AMPS
1/2 CYCLES 2 CYCLES 3 CYCLES 5 CYCLES 8 CYCLES
20864.1 20004.6 20004.6 20004.6 20004.6

INI. SYM. RMS FAULTED BUS VOLTAGES (PU / DEG)
AT TIME = 0.5 CYCLES
---PHASE A--- ---PHASE B--- ---PHASE C---
0.0000 / 0.0 0.0000 / 0.0 0.0000 / 0.0

INI. RMS FAULTED CURRENT (AMPS / DEG)
AT TIME = 0.5 CYCLES
---PHASE A--- ---PHASE B--- ---PHASE C---
20004.6 / -63.5 20004.5 / 176.5 20004.6 / 56.5

BUS-MSB ===== INI. SYM. RMS SYSTEM BUS VOLTAGES (PU / DEG) =====
FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
---PHASE A--- ---PHASE B--- ---PHASE C---
BUS-TERM 208.0 0.5922 / -15. 0.5922 / -135. 0.5922 / 105.

BUS-MSB ===== INI. RMS SYSTEM BRANCH FLOWS (AMPS) =====
FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
BRANCH NAME VBASE LL -PHASE A- -PHASE B- -PH
BUS-TERM BUS-MSB CBL-SMUD 208. 20004.6/ -64. 20004.5/ 176. 20004

BUS-TERM

VOLTAGE BASE LL: 208.0 (VOLTS)
 INI. SYM. RMS FAULT CURRENT: 44200.0 / -83. (AMPS/DEG)
 THEVENIN EQUIVALENT IMPEDANCE: 0.779 +j 6.231 (PU)
 THEVENIN IMPEDANCE X/R RATIO: 8.000

ASYM	RMS	INTERRUPTING AMPS		
1/2 CYCLES	2 CYCLES	3 CYCLES	5 CYCLES	8 CYCLES
61115.6	46070.5	44595.3	44217.2	44200.2

INI. SYM. RMS FAULTED BUS VOLTAGES (PU / DEG)

AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 0.0000 / 0.0 0.0000 / 0.0 0.0000 / 0.0

INI. RMS FAULTED CURRENT (AMPS / DEG)

AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 44200.0 / -82.9 44200.0 / 157.1 44200.0 / 37.1

BUS-TERM

==== INI. SYM. RMS SYSTEM BUS VOLTAGES (PU / DEG) =====

FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 208.0 0.0000 / 0. 0.0000 / 0. 0.0000 / 0.

BUS-MSB

BUS-TERM

===== INI. RMS SYSTEM BRANCH FLOWS (AMPS) =====

FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
 BRANCH NAME VBASE LL -PHASE A- -PHASE B- -PH
 208. 44200.0/ -83. 44200.0/ 157. 44200
 208. 0.0/ 0. 0.0/ 0. 0

UTIL-SMUD

BUS-TERM

BUS-TERM

BUS-MSB

CBL-SMUD

***** FAULT ANALYSIS REPORT *****

FAULT TYPE: SLG
 MODEL INDUCTION MOTOR CONTRIBUTION: YES
 MODEL TRANSFORMER TAPS: YES
 MODEL TRANSFORMER PHASE SHIFT: YES

BUS-MSB VOLTAGE BASE LL: 208.0 (VOLTS)
 INI. SYM. RMS FAULT CURRENT: 0.1 / -45. (AMPS/DEG)
 THEVENIN EQUIVALENT IMPEDANCE: INFINITE
 THEVENIN IMPEDANCE X/R RATIO: 1.000
 SEQUENCE EQUIVALENT IMPEDANCE Z1: 6.181 +j 12.423 (PU)
 Z2: 6.181 +j 12.423 (PU)
 Z0: INFINITE

ASYM	RMS	INTERRUPTING AMPS				
1/2 CYCLES	2 CYCLES	3 CYCLES	5 CYCLES	8 CYCLES		
0.1	0.1	0.1	0.1	0.1	0.1	0.1

INI. SYM. RMS FAULTED BUS VOLTAGES (PU / DEG)
 AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 0.0000 / 0.0 1.7320 / -150.0 1.7320 / 150.0

INI. RMS FAULTED CURRENT (AMPS / DEG)
 AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 0.1 / 0.0 0.0 / 0.0 0.0 / 0.0

BUS-MSB ===== INI. SYM. RMS SYSTEM BUS VOLTAGES (PU / DEG) =====
 FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 BUS-TERM 208.0 0.0000 / 10. 1.7320 / -150. 1.7320 / 150.

BUS-MSB ===== INI. RMS SYSTEM BRANCH FLOWS (AMPS) =====
 FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
 BRANCH NAME VBASE LL -PHASE A- -PHASE B- -PH
 BUS-TERM BUS-MSB CBL-SMUD 208. 0.1 / -45. 0.0 / 0. 0

BUS-TERM VOLTAGE BASE LL: 208.0 (VOLTS)
 INI. SYM. RMS FAULT CURRENT: 0.1 / -45. (AMPS/DEG)
 THEVENIN EQUIVALENT IMPEDANCE: INFINITE
 THEVENIN IMPEDANCE X/R RATIO: 1.000
 SEQUENCE EQUIVALENT IMPEDANCE Z1: 0.779 +j 6.231 (PU)
 Z2: 0.779 +j 6.231 (PU)
 Z0: INFINITE

ASYM	RMS	INTERRUPTING AMPS				
1/2 CYCLES	2 CYCLES	3 CYCLES	5 CYCLES	8 CYCLES		
0.1	0.1	0.1	0.1	0.1	0.1	

INI. SYM. RMS FAULTED BUS VOLTAGES (PU / DEG)
 AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 0.0000 / 0.0 1.7320 / -150.0 1.7321 / 150.0

INI. RMS FAULTED CURRENT (AMPS / DEG)
 AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 0.1 / 0.0 0.0 / 0.0 0.0 / 0.0

BUS-TERM ===== INI. SYM. RMS SYSTEM BUS VOLTAGES (PU / DEG) =====
 FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
 ---PHASE A--- ---PHASE B--- ---PHASE C---
 BUS-MSB 208.0 0.0000 / 0. 1.7320 /-150. 1.7321 / 150.

BUS-TERM ===== INI. RMS SYSTEM BRANCH FLOWS (AMPS) =====
 FIRST BUS FROM FAULT AT TIME = 0.5 CYCLES
 BRANCH NAME VBASE LL -PHASE A- -PHASE B- -PH
 UTIL-SMUD BUS-TERM 208. 0.1/ -45. 0.0/ 0. 0
 BUS-TERM BUS-MSB CBL-SMUD 208. 0.0/ 0. 0.0/ 0. 0

***** FAULT ANALYSIS SUMMARY *****

BUS NAME	VOLTAGE	AVAILABLE	FAULT CURRENT		
	L-L	3 PHASE	X/R	LINE/GRND	X/R
BUS-MSB	208.	20004.6	2.0	0.06	1.0
BUS-TERM	208.	44200.0	8.0	0.06	1.0

***** FAULT ANALYSIS REPORT COMPLETED *****