

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0502555

Insp Area: 4

Thos Bros: 277C2

Site Address: 3601 NORTH FREEWAY BL SAC

Parcel No: 225-0160-086

Sub-Type: NCOM

Housing (Y/N): N

CONTRACTOR  
SD DEACON  
7745 GREENBACK LN #250  
CITRUS HEIGHTS CA 95610

OWNER  
TARGET CORPORATION  
1000 NICOLETT MALL  
MINNEAPOLIS, MN 55403

ARCHITECT

Nature of Work: NEW 1-STORY 134,700 SF COMMERCIAL RETAIL TILT UP BLDG

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 760475 Date 8/26/05 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 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 abovementioned property for inspection purposes.

Date 8/26/05 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~~ 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 AMERICAN ZURICH INS CO Policy Number WC350459104 Exp Date 02/15/2006

(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 8/26/05 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.

# TARGET CORPORATION

Architecture / Engineering  
Memorandum

TO: City Building Official

FROM: Target Structural Engineering

DATE: August 10, 2004 (revision 1)  
March 23, 2004

SUBJECT: Seismic anchorage of sales floor and stock room fixtures to concrete slab

This Target Store has four basic types of fixtures: clothes racks and gondolas, which are on the sales floor, and light-duty shelving and pallet rack, which are in the stock room. The clothes rack fixtures are typically 5'-0" tall or less and are on casters that have locking wheels. The gondolas are cantilevered shelving units of varying heights. Over 90% of these units are 7'-11" tall or less. These units are located in the tiled areas of the store and do not require any anchorage. Even in our high seismic zones, units 7'-11" or less are not anchored, since the Building Code only regulates fixtures 8'-0" or higher. In units taller than 8'-0", the base foot is anchored to the concrete floor with 3/8" x 3" expansion bolts. Along the building perimeter, the vertical posts of these units are typically attached to wood blocking with 1/4" lag bolts at about 2/3rds height.

In the stock room, all of our light duty units have each post expansion bolted to the slab. Where units are placed back-to-back, just the exterior posts are anchored to the floor and the back-to-back posts are screwed together with self-tapping screws. Only one anchor is required per each base plate. Two holes are provided for bolt location flexibility, but only one anchor is required to be installed. The single anchor will be located in the hole that is the furthest distance from a floor slab joint or edge. One hole in the base plate will always be left open.

~~Each post of the standard pallet rack posts are anchored to the concrete floor with two 1/2" x 4 1/4"~~  
expansion bolts. On these units the anchor bolt holes are on either side of the post and both holes will be filled with a bolt.

At the pallet rack over the conveyor and open frame pallet rack ('no gut'), the posts are anchored with four 1/2" x 4 1/4" expansion anchors. Once again, the base plate has four holes and all the holes will be filled with expansion anchors.

All anchorage and framing capacities provided exceed building code requirements for the UBC Zone 4 (Near Source effect of 5 km from a Class B fault) and IBC Seismic Design Category D. Target directly employs a Structural Engineering consultant from California to design our fixtures for these seismic loadings. Sealed calculations attesting to this information have most likely been submitted to your main office for permitting, if originally required. In addition, Target has used these anchorage requirements nationwide for many years with out incidence.

We hope that this memorandum clarifies the anchorage of our fixtures. Please call with any questions or concerns.

Sincerely,

Brad Koland  
Structural Engineering Department  
Target Corporation  
1000 Nicollet Mall, TPN-1042  
Minneapolis, MN 55403  
(612) 761-7230 Phone

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Circle Business Center I  
4500 E. Pacific Coast Highway, Ste. 100  
Long Beach, California 90804  
Tel: (562) 985-3200  
Fax: (562) 985-1011

### LETTER OF TRANSMITTAL

To: SD Deacon  
7745 Greenback Lane Suite 250  
Citrus Heights, CA 95610  
  
Attn.: Rick Demshki

Date: February 7, 2006  
Project: Target Natomas  
  
Job No: 04554-00-1

WE ARE TRANSMITTING:

VIA:

- |   |  |   |  |   |                               |
|---|--|---|--|---|-------------------------------|
| <input type="checkbox"/> Originals                          | <input type="checkbox"/> Drawings        | <input type="checkbox"/> Shop Drawings  | <input type="checkbox"/> Federal Express         | <input type="checkbox"/> Calif. Overnight | <input type="checkbox"/> Mail |
| <input checked="" type="checkbox"/> Copies                  | <input type="checkbox"/> Calculations    | <input type="checkbox"/> Specifications | <input type="checkbox"/> UPS                     | <input type="checkbox"/> Your Messenger   | <input type="checkbox"/> Fax  |
| <input type="checkbox"/> Blue Prints                        | <input type="checkbox"/> Proposal/Report |   | <input checked="" type="checkbox"/> Golden State | <input type="checkbox"/> Our Messenger    |                               |
| <input type="checkbox"/> Other (CD, Plots, Diskette, etc.): |  |   | <input type="checkbox"/> Other:                  |   |                               |

QUANTITY		DESCRIPTION	CODE
Documents	Copies		
1	1	Copy of stamped detail.	b

THESE ARE TRANSMITTED:

- |  |   |   |   |  |
|--|---|---|---|--|
| <input checked="" type="checkbox"/> As Requested | <input type="checkbox"/> For Distribution | <input type="checkbox"/> For Review/Comment | <input type="checkbox"/> Approved As Submitted    | <input type="checkbox"/> For Bids Due: |
| <input type="checkbox"/> For Your Use            | <input type="checkbox"/> For Approval     | <input type="checkbox"/> Approved As Noted  | <input type="checkbox"/> Returned For Corrections | <input type="checkbox"/> Other:        |

REMARKS:

**RECEIVED**

FEB 08 2006

S.D. DEACON CORP.  
OF CALIFORNIA

Copies To:

From: Nimesh Parikh

If enclosures are not as noted, please notify our office.

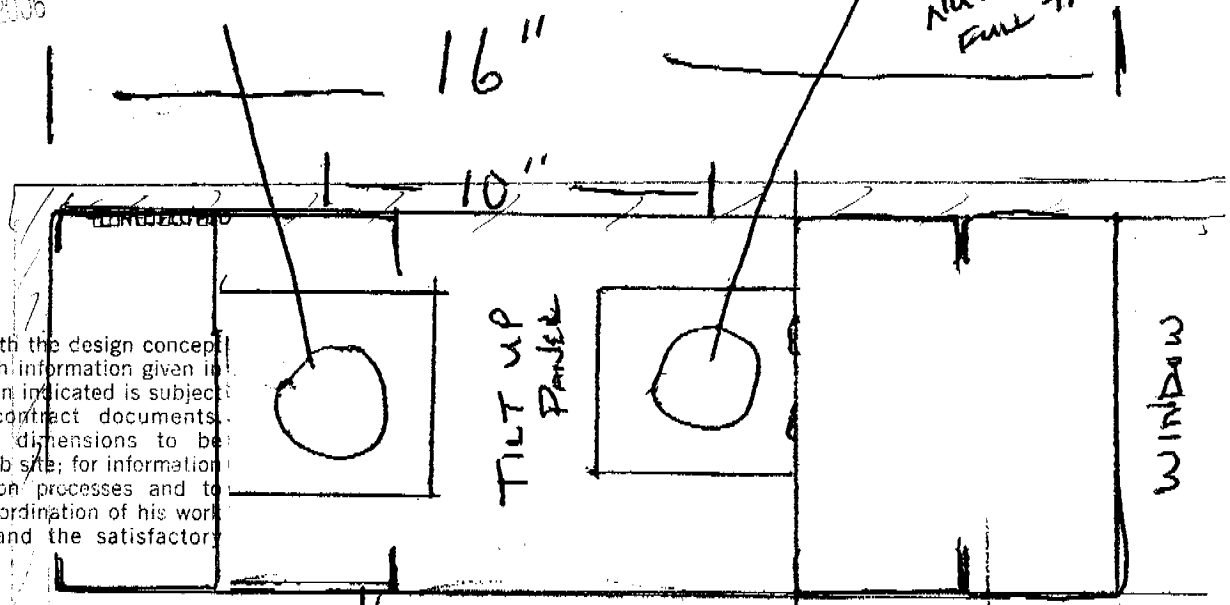
NIMESH Parikh

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1/8 Threaded Rod Not Threaded This Way All 3 Threads

1/8 Threaded Rod Nut Full Thread

JAN 13 2006

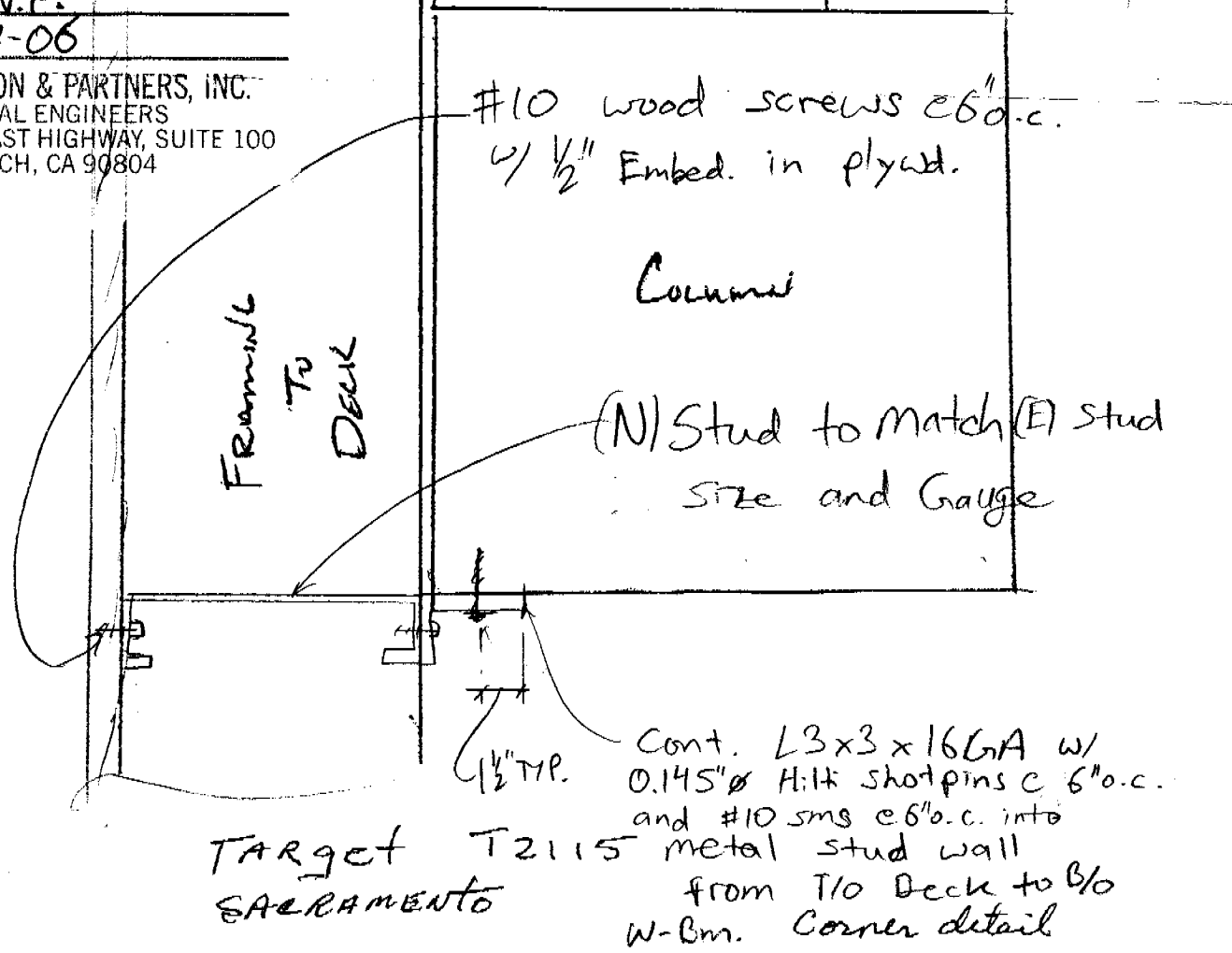


- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

Review is only for conformance with the design concept of the project and compliance with information given in the contract documents. Any action indicated is subject to the requirements of the contract documents. Contractor is responsible for: dimensions to be confirmed and correlated at the job site; for information that pertains solely to fabrication processes and techniques of construction; for coordination of his work with that of all other trades and the satisfactory performance of his work.

By N.P.  
DATE 2-07-06

MYERS, HOUGHTON & PARTNERS, INC.  
STRUCTURAL ENGINEERS  
4500 E. PACIFIC COAST HIGHWAY, SUITE 100  
LONG BEACH, CA 90804



TARGET  
SACRAMENTO

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February 22, 2006  
File: 59905

Mr. Chris Brown  
Target Corporation  
1000 Nicollett Mall, TPN  
Minneapolis, MN 55403

**Subject: Final Report  
Special Inspection and Testing  
Target Store, Store #2115  
3601 Freeway Blvd.  
Sacramento, CA**

**City of Sacramento Permit Number 0509160**

Dear Mr. Brown:

During construction of the subject project, personnel of our firm provided special inspection services in general conformance with Section 1701 of the Uniform Building Code. These construction observation services were performed from July 26, 2005 through January 25, 2006. The scope of our services consisted of testing and observation for the following items:

1. **Cast-In-Place Concrete**
2. **Field Structural Welding**
3. **Reinforcing Steel Welding**
4. **High Strength Bolting**
5. **Structural Masonry**
6. **Epoxied Anchors**
7. **Expansion Anchors**

Based on the construction observations and testing of our representatives, it is our opinion the work observed requiring special inspection was, to the best of our inspector's knowledge, in conformance with the approved plans and specifications. Our services did not include architectural detailing observations such as dimensioning, color, fit, or finish.

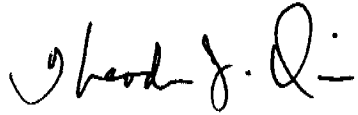
We have performed our services in a manner consistent with the level of care and skill ordinarily exercised by inspection firms practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended. Our services have been completed within the responsibilities, authority, and legal protection of an agency Deputy Inspector.

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If you have any questions regarding the contents of this report or require additional information, please contact this office.

Sincerely,

**KLEINFELDER, INC.**



Theodore Oien  
Manager, Construction Materials Testing

CC: City of Sacramento, Building Department  
Rick Demshki, SD Deacon

59905/SAC6L047  
Copyright 2006 Kleinfelder, Inc.

KLEINFELDER 3077 Fite Circle, Sacramento, CA 95827-1815 (916) 366-1701 (916) 366-7013 fax

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An employee owned company

February 22, 2006  
File: 59905

Mr. Chris Brown  
Target Corporation  
1000 Nicollett Mall, TPN  
Minneapolis, MN 55403

**Subject: Final Report  
Special Inspection and Testing  
Target Store, Store #2115  
3601 Freeway Blvd.  
Sacramento, CA**

**City of Sacramento Permit Number 0502555**

Dear Mr. Brown:

During construction of the subject project, personnel of our firm provided special inspection services in general conformance with Section 1701 of the Uniform Building Code. These construction observation services were performed from July 26, 2005 through January 25, 2006. The scope of our services consisted of testing and observation for the following items:

1. **Cast-In-Place Concrete**
2. **Field Structural Welding**
3. **Reinforcing Steel Welding**
4. **High Strength Bolting**

Based on the construction observations and testing of our representatives, it is our opinion the work observed requiring special inspection was, to the best of our inspector's knowledge, in conformance with the approved plans and specifications. Our services did not include architectural detailing observations such as dimensioning, color, fit, or finish.

We have performed our services in a manner consistent with the level of care and skill ordinarily exercised by inspection firms practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended. Our services have been completed within the responsibilities, authority, and legal protection of an agency Deputy Inspector.

59905/SAC6L047  
Copyright 2006 Kleinfelder, Inc.

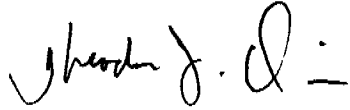
KLEINFELDER 3077 Fite Circle, Sacramento, CA 95827-1815 (916) 366-1701 (916) 366-7013 fax

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If you have any questions regarding the contents of this report or require additional information, please contact this office.

Sincerely,

**KLEINFELDER, INC.**



Theodore Oien  
Manager, Construction Materials Testing

CC: City of Sacramento, Building Department  
Rick Demshki, SD Deacon

59905/SAC6L047

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KLEINFELDER 3077 Fite Circle, Sacramento, CA 95827-1815 (916) 366-1701 (916) 366-7013 fax



CITY OF SACRAMENTO

**CERTIFICATE OF OCCUPANCY**

For Information Contact (916) 808-5716

Building Address:	<u>3601 NORTH FREEWAY BLVD.</u>	Permit No.:	<u>0502555</u>
Building Use:	<u>RETAIL DBA: TARGET</u>	Occupancy:	<u>M</u>
Building Owner:	<u>TARGET CORPORATION</u>	Construction Type:	<u>111-N</u>
Owner Address:	<u>MINNEAPOLIS, MN. 55403</u>	Sprinkled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Portion of Building Occupied:	<u>ENTIRE</u>	Area:	<u>134,700</u> Sq. Ft.
02/27/2006	<u>Tom Oyley</u>	<b>RON BEEHLER</b>	
Date	By: (Print) Sign	CHIEF BUILDING OFFICIAL	

[ Finaled By: JBB, MSK, MCM, GRS ]

*This Certificate, issued pursuant to the requirements of Section 109 of the Uniform Building Code, certifies that at time of issuance the described portion of the building has been inspected for compliance with the Uniform Building Code, as adopted per Title 15 of the Sacramento City Code for the group and division of occupancy and use for which the proposed occupancy is classified. Issuance of this certificate shall not be construed as an approval of a violation of any Codes, or Federal, State and City Laws or Ordinances. Certificates presuming to give authority to such violation shall not be valid. This certificate shall be posted in a conspicuous place on the premises and shall not be removed except by the Chief Building Official. No changes shall be made in the character of occupancy or use without approval of the Chief Building Official.*

**POST IN A CONSPICUOUS PLACE**

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Final

**MECHANICAL  
TEST & BALANCE**

January 24, 2006

Chris Brown  
TARGET STORE T-2115  
3601 North Freeway Blvd.  
Sacramento, CA 95834

***Subject: Kitchen Hood Exhaust***

**March 2006 Cycle**

Dear Chris:

The Kitchen Exhaust Hood does not have a separate MUA (Make-up Air) unit. The make-up air is provided by the RTU's (Roof Top Units) throughout the store. RTU #4 serves the Kitchen Area and has a minimum outdoor air volume of 250 CFM. The Kitchen hood exhaust was measured at 1,467 CFM (This keeps the Kitchen area negative relative to the store.). The remaining 1,217 CFM is made up from the remaining RTU's. On the following page is a list of the RTU's minimum outdoor air/all store exhaust/building balance.

In the above balanced condition, the building pressure was measured at .05 inches of water column relative to the outdoors. Sufficient make-up air is being induced into the store to meet all fresh air and make-up air requirements.

Mechanical Test and Balance is a true, independent test and balance company and a certified member of the Associated Air Balance Council (AABC) under Certification Number 99-04-23.

If you have any questions, please feel free to contact me.

Yours truly,  
MECHANICAL TEST AND BALANCE

*Frank S. Arone*  
Frank S. Arone  
FSA/py

Cc: MTB File No. 06-104

# MECHANICAL TEST & BALANCE

Chris Brown  
 TARGET STORE T-2115  
**Subject: Kitchen Hood Exhaust**  
 January 24, 2006  
 Page 2

ROOF TOP UNITS			
RTU #	Design CFM	Design Minimum O.A. CFM	Actual Minimum O.A. CFM
1	1,640	200	210
2	7,650	0	0
3	4,220	1,200	1,275
4	2,240	250	240
5	4,900	750	770
6	5,400	2,065	2,000
7	5,000	2,340	2,250
8	6,000	2,265	2,300
9	5,400	2,350	2,275
10	5,000	2,350	2,318
11	5,000	2,350	2,310
12	6,000	2,455	2,479
13	6,000	2,185	2,090
14	5,000	2,350	2,242
15	5,000	2,350	2,284
16	6,000	2,350	2,317
17	2,400	930	942
18	5,800	380	372
TOTAL	88,650	29,120	28,674

EXHAUST AIR		
Fan #	Design CFM	Actual CFM
PRV #1	1,400	1,467
PRV #2	1,230	1,265
PRV #3	190	205
PRV #4	200	211
PRV #7	900	964
PRV #8	450	471
TOTAL	4,370	4,593

TARGET STORE T-2115  
Sacramento, California  
January 24, 2006

Kitchen Exhaust Hood Test  
PRV-1

### GREASE FILTER DATA

NO.	GREASE FILTER MANUFACTURER	FILTER SIZE	NET AREA
1	Kleen-Gard (Research Products)	19 5/8" x 15 5/8"	18" x 14" = 1.75
2	Kleen-Gard (Research Products)	19 5/8" x 19 5/8"	18" x 18" = 2.25
3	Kleen-Gard (Research Products)	19 5/8" x 15 5/8"	18" x 14" = 1.75
4	Kleen-Gard (Research Products)	19 5/8" x 19 5/8"	18" x 18" = 2.25

### GREASE FILTER AIR MEASUREMENTS

NO.	SIZE	FILTER MEASUREMENT READINGS								TOTAL	AVERAGE	CFM
1	18"x14"	180	190	190	175	170	180			1085	181	317
2	18"x18"	190	185	190	190	195	185			1125	188	423
3	18"x14"	190	170	180	180	190	190			1100	183	320
4	18"x18"	170	185	180	180	180	190			1085	181	407
5												
6												
7												
8												

### COMMERCIAL COOKING HOOD & SYSTEM SPECIFICATIONS

Hood Open Sides: (2)	3.8 Ft.	+	5.75 Ft.	+	Ft.	+	Ft.	=	9.55	Feet (P)			
Distance From Hood to Cooking Surface =	2.3 Feet								2.3	Feet (D)			
Hood Width	3.8 Ft.	X	Hood Length	5.75 Ft.	=					21.85	SQ. Feet		
Formulas:	#1 Q= 300A/200A	#2 Q= 150A/100A	#3 Q= 100A/75A	#4 Q= 75A/50A							32.78	Formula	
Alternate Formulas:	#1 Q= 100PD	#2 Q= 100PD	#3 Q= 50PD	#4 Q= 50PD							1635	Alt.Form.	
(Q)	32.78	X	(A)	21.85							716	Req. CFM	
(Q)	32.78	X	(P)	9.55	X	(D)	2.3	=				720	Req. CFM
Noncanopy Type Hood: 300 CFM	X	Linear Feet =								---	Req. CFM		
#1 Duct Size	10 IN.	X	10 IN.	div. by 144	=					0.694	SQ. Feet		
#2 Duct Size	IN.	X	IN.	div. by 144	=					---	SQ. Feet		
#3 Duct Size	IN.	X	IN.	div. by 144	=					---	SQ. Feet		
Largest Duct Size	10 IN.	X	10 IN.	div. by 144	=					0.694	SQ. Feet		
Exhaust Air Volume through Filters	1,467 CFM / Duct Size .694 SQ. FT. =								2114	F.P.M.			

### COMMERCIAL COOKING VENTILATION SYSTEM SUMMARY

TOTAL HOOD EXHAUST AIR VOLUME	1,467	CFM
GREASE DUCT SIZE	0.694	SQ.FT.
VELOCITY WITHIN GREASE DUCT SYSTEM	2114	FPM

INSPECTOR:  Approved  Failed Date:

Testing  
by  
MECHANICAL TEST AND BALANCE  
AABC Certified



TO: 901



SACRAMENTO MUNICIPAL UTILITY DISTRICT  
The Power To Do More.™

P.O. Box 15830, Sacramento, CA 95852-1830; 1-888-742-SMUD (7683)

February 7, 2005

OPUS WEST  
ATTENTION: FRED BARNUM  
8880 WEST CAL CENTER DR.  
#360 SACRAMENTO, CA 95825

Order # 30036841

**SMUD COMMITMENT LETTER**

Thank you for submitting your plans for **PROMENADE @ NATOMAS** for an electric service commitment. Your cooperation enables us to give you the best service possible, as well as provide for your future requirements.

We are returning one copy of your plans indicating the service location and other requirements checked below. Our commitment is subject to changing conditions and, as a result, may not be valid after twelve months.

Please contact the Designer if additional information is desired.

Designer: JERRY CUNNINGHAM

Telephone (916) 732-5692

Service will be: Overhead  Underground

Volts: SEE ATTACHED SHEETS Phase: THREE Wire: 4 Type: STAR

(Street light service voltage will be the same as above.)

- Transformer pad required: Yes  No  SMUD Dwg. UVD 2.3 & 2.2
- Conduit required: Yes  No  (see sketch)
- Right-of-way required: Yes  No
- Transformer protection required: Yes  No  see sketch and SMUD Dwg. UVD 2.5
- Primary pull box required: Yes  No  SMUD Dwg. UVC 1.2 & 1.2.2
- Service box required: Yes  No  SMUD Dwg. UVC 1.7 & UVD 5.4
- Switchgear pad required: Yes  No  SMUD Dwg. UVC 1.4 & UGA 2.5
- Street light service box required: Yes  No  (see sketch)

Other requirements: See enclosed Booklet  Prints

\*A maximum fault current of SEE ATTACHED SHEETS <sup>57,600</sup> amps symmetrical is based on the largest transformer that could be needed to serve the Single  Combined  main sizes of N/A amps.

The meter(s) shall be located on the exterior of the building. When it is absolutely necessary to locate meters in locked rooms, cabinets, or fenced enclosures, consult SMUD's Field Metering at (916) 732-5390.

\*If future load growth necessitates increasing the main switch size, the available fault current should be recalculated.

**NOTE:** This commitment letter may be required by local inspection authority as part of its plan check requirements.

To BE SCANNED

3601 N. Freeway

0502555



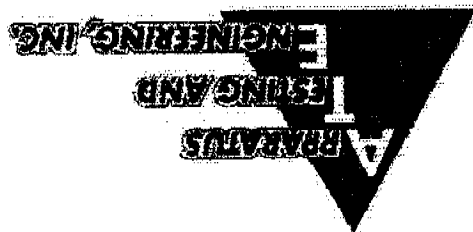
SACRAMENTO (916) 853-6280 • LIVERMORE (925) 454-1363



FULL MEMBER

**GROUND FAULT SYSTEM TEST REPORT-1**

CUSTOMER:		LOCATION:		JOB NO.:	S-7447
REX MOORE ELECTRICAL CONTRACTORS		TARGET		DATE:	11/18/05
SWG. PNL IDENTIFICATION: MAIN SWITCHBOARD MDS		TEST EQUIPMENT USED: MULTI-AMP MS-2, AVO MEGGER		TESTED BY:	JG
GROUND FAULT INFORMATION				ELECTRICAL TEST DATA	
MFG:	SDD	TYPE:	MICROLOGIC 60A	956:	AMPS
RANGE:	500-1200	AMPS:	0.1-0.4 I/0	0.28	SECONDS
				0.27	SECONDS
SYSTEM CONFIGURATION					
X	RESIDUAL	ZERO SEQ.	RELAY TRIP AT 57% CONTROL VOLTS	ACCEPTABLE	NOT ACCEPTABLE
			NEUTRAL INSULATION RESISTANCE	(1) ACCEPTABLE	NOT ACCEPTABLE
			MONITOR PANEL OPERATION	ACCEPTABLE	NOT ACCEPTABLE
			NEUTRAL SENSOR POLARITY	ACCEPTABLE	NOT ACCEPTABLE
BREAKER INFORMATION					
MFR:	SDD	TYPE:	POWER PACT		
STYLE NO.:	RJ 2000				
RATING:	2000	AMPS:	480	VISUAL INSPECTION	
				NEUTRAL GROUND LOCATION	X ACCEPTABLE
				NEUTRAL LINK ACCESSIBILITY	X ACCEPTABLE
				SENSOR MOUNTING	X ACCEPTABLE
GROUND FAULT SYSTEM SETTINGS					
CURRENT:	960	AMPS:			
TIME DELAY:	0.3	SECONDS:			
f-T	IN	OUT	X	N/A	
REMARKS:					
(1) NOT ALL NEUTRAL CONNECTORS WERE TERMINATED AT THE TIME OF TESTING					



FULL MEMBER

Sacramento • Livermore

November 21, 2005

Rex Moore Electrical Contractors

3601 Parkway Place

P.O. Box 980010

West Sacramento, CA 95798

Attention:

Jeff Corell / Ted Crow

Subject:

Ground Fault System Certification Performed at Target - Sacramento, CA

A.T.E. Reference:

S-7447

We wish to thank you for giving Apparatus Testing & Engineering, Inc. the opportunity to serve your testing needs on the above project. This letter and the attached Field Test Report constitute the Report for the Project.

Please review the Results and Recommendations section of this report for items, if any, requiring further action.

We appreciate your business and look forward to meeting your testing needs again in the future. Please do not hesitate to contact us if you require further information.

Very truly yours,

APPARATUS TESTING & ENGINEERING, INC.

Joshua Galaz

Field Technician

NETA Certification #: 05-2-13479

JG:dkm

Attachment

People Doing Business With People®

Sacramento • Phone (916) 853-6280 • Fax (916) 853-6258  
Livermore • Phone (925) 454-1363 • Fax (925) 454-1499  
P.O. Box 984 Folsom, CA 95763-0984

A REPORT  
ON THE  
GROUND SYSTEM  
CERTIFICATION  
PERFORMED AT  
TARGET  
SACRAMENTO, CA

FOR

REX MOORE ELECTRICAL CONTRACTORS

BY

APPARATUS TESTING AND ENGINEERING

P.O. BOX 984

FOLSOM, CA 95763-0984

(916) 853-6280

Submitted by:

Joshua Galaz

NETA Certification #: 05-2-13479

November 21, 2005

Certified by:

Jim Lawler

NETA Certification: # 98-4-1599

A.T.E. Reference: S-7447



- A. Neutral-ground connection inspected to verify connection ahead of ground fault sensor and neutral disconnect link.
- B. Neutral-ground conductor checked for correct size and clearance from exposed, energized conductors.
- C. Polarity of neutral current sensors checked to verify correct connection in relation to phase current sensors.
- D. Minimum ground fault current required to operate protective device determined; current recorded as ground fault pickup current.
- E. Ground fault current applied to system at minimum of two values in excess of pickup current to verify ground fault time operation is within parameters of manufacturer's time-current curves.
- F. Neutral insulation resistance checked to verify that no additional ground paths exist in system.

**III. TEST PROCEDURES**

Apparatus Testing and Engineering, Inc. was contracted by Rex Moore Electrical Contractors to perform a Ground Fault System Certification at Target located at 3601 N. Freeway Blvd. in Sacramento, CA. The test was conducted on November 18, 2005, by Joshua Galaz, NETA Certification # 05-2-13479, of Apparatus Testing and Engineering, Inc.

**II. SUMMARY**

The purpose of the Ground Fault System Certification is to ensure that the components within the system and the system as a whole are installed in accordance with "National Electric Code 230-95" and are fully operational. Through such tests, the contractor is assured that his installation is correct and will provide protection against arcing ground faults.

**I. PURPOSE**

**PROJECT REPORT**

**IV. RESULTS AND RECOMMENDATIONS**

- A. The ground fault system tested satisfactorily as installed and is operational and acceptable for service.
- B. In the absence of engineered settings, pickup current and time delay settings were temporarily made for service energization. Apparatus Testing & Engineering, Inc. accepts no liability for these settings. The as left settings are 960 amps pickup, 0.3 seconds time delay. The design engineer should be contacted for final settings.
- C. Not all neutral conductors were installed at the time the test was performed.
- 1. Apparatus Testing and Engineering, Inc. recommends that the contractor verify the neutral insulation resistance when the wiring is completed. No re-test of the ground fault system is required.

**SHEET**

**TEST**

**DATA**