

**CITY OF SACRAMENTO**

**Permit No: 9810560**

**1231 I Street, Sacramento, CA 95814**

**Insp Area: 4**

**Site Address: 4201 NORWOOD AV SAC**

**Sub-Type: COM**

**Parcel No: 2370100030**

**Housing (Y/N): N**

**CONTRACTOR**

JIREH CONSTRUCTION  
PO BOX 643  
CARMICHAEL CA

95608

**OWNER**

HAPSMITH-NORWOOD PROPERTIES  
4950 PACIFIC AVE  
STOCKTON CA

95207

**ARCHITECT**

**Nature of Work: FIRE SUPPRESSION SYSTEM**

**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 A1B License Number 583246 Date 11/22/98 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 11/22/98 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 \_\_\_\_\_ 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 11/22/98 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.**

# Stockton Fire Equipment

2837 East Main St. ~ Stockton CA 95205  
Phone (209) 948-2628 ~ Fax (209) 948-4823

October 19, 1998

Jim Bonner  
4201 Norwood  
Sacramento, CA

← JOB SITE ADDRESS

Phone - (916) 952-4012  
Fax # - (916) 726-4022

Jobsite: Norwood & Interstate 80  
Sacramento, CA

ISSUED

OCT 22 1998

Sacramento Building Division

Dear Jim,

This quote is based on information provided by our conversation on October 19, 1998.

- 1-Pyro Chem 240 automatic fire suppression system installed to the U.L. 300 standard.
- This system will provide protection for one deep fryer. This system will also protect the duct and the plenum. It will also have chrome on exposed pipe.
- The above mentioned appliances produce grease laden vapors.

This system will have one automatic mechanical gas valve installed by you. We are not bidding any other equipment. Please be aware the U.L. 300 standard requires that any electrical outlets and or appliances under the hood must be wired so that they will automatically shut off if the system were to discharge and that if you have a fire alarm it goes into alarm mode. This wiring etc. is to be done by others that you contract with and they will be using a micro switch as part of their layout. The system will be equipped with a release so that they system could be manually activated. The system will pass inspection by the local fire department, when completed by us and your electrician if a micro switch is necessary.

The price for the above mentioned system will be \$1,475.00. You have indicated that you will acquire the permit that is required by the local jurisdiction. We are not responsible for any other permits or the fees associated with the permit. The price does include all required drawings for the fire department.

Payment is due upon completion. We ensure that your system will pass the local fire department requirements.

If you have any questions please call me at 948-2628.

Sincerely,

*Will Gilmore*

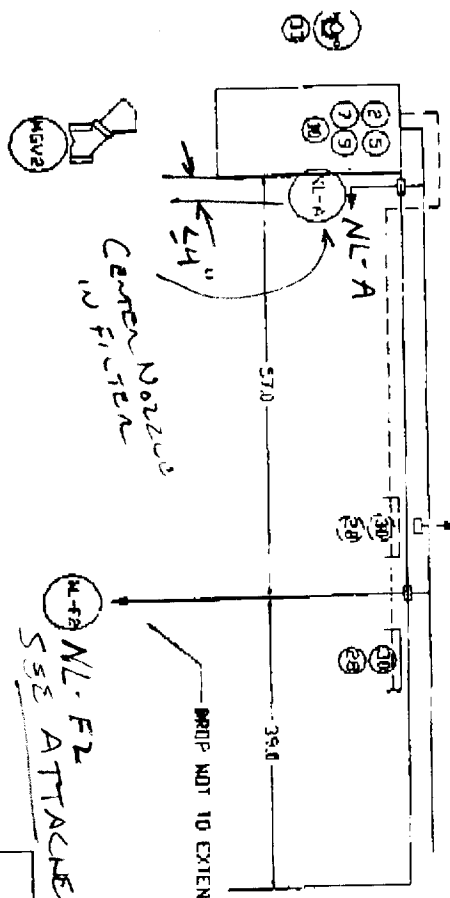
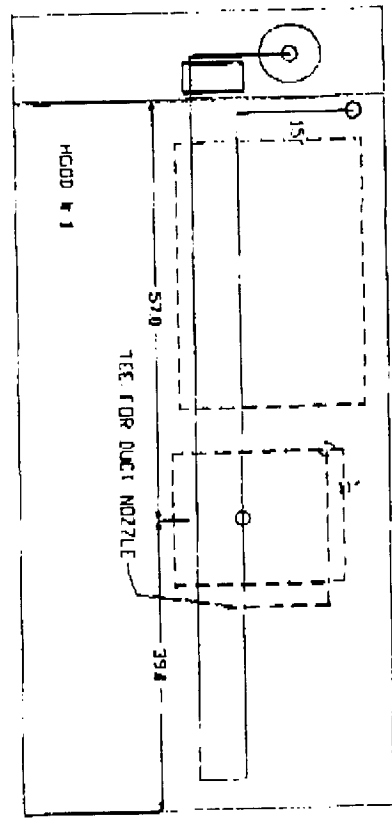
Will Gilmore  
Stockton Fire Equipment *u*



Contractor's License # 202443

OCT 19 1998 03:48PM STOCKTON FIRE EQUIP

FIELD VERIFY  
IF DUCT IS 210 FT  
SPRINKLES ARE REQUIRED  
IN THE DUCT



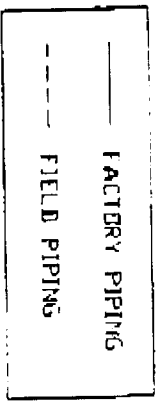
Oven  
36.00" L x 24.00" D

Fryer-M w/ Drip Board  
18.00" L x 22.00" H  
High Proximity

DRAWING NUMBER: J13JrJredot  
Job #: 20656  
Job Name: JARED CONSTRUCTION  
Street ATTN: SCOTT REID 1601 F ST  
City, State Zip: SACRAMENTO, CA 95816  
Drawn By: EJJG  
System Size: PCL-240 Tank System - Total System LP = 300  
Contact Name: SCOTT REID  
Contact Phone #: (916) 649-7250  
Hood # 1 8' 0" Long x 45" Wide x 24" High  
Duct # 1 Size: 12" x 15"

17 ps 3/8" P

- NOTES
- FIELD PIPE DROPS AS SHOWN
  - SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS
  - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SLEEVING, SALAMANDERS, ETC.
  - MAXIMUM 9 ELBOWS IN SUPPLY LINE.
  - MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
  - IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
  - FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.
  - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
  - THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revised and Resubmit

SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_

Your Title: \_\_\_\_\_

**APPROVED**  
2701 10/24/98  
SACRAMENTO  
FIRE DEPARTMENT

4TH DUCT  
4221 N. ...  
SALT ...  
William ...

### 3.1. Deep Fat Fryer Coverage.

The Model NL-F2 nozzle is a two (2) flow point nozzle that is used for the protection of a single vat of a deep fat fryer. The maximum area that can be protected by a single NL-F2 nozzle is:

1. Cooking Area: 18" x 18"
2. Integral Drip Board: 18" x 9.75"

The nozzle must be located within 11.875" of the center of the longest side, and within 7" of the center of the shortest side of the cooking surface and aimed at the center of the protected zone. The nozzle must be mounted 30" to 42" above the top surface of the deep fat fryer (see Figure 3-8.2).

The tip of the Model NL-F2 nozzle has two flat areas designed to assist aiming. The nozzle must be positioned so that these flat areas are parallel to the longest side of the protected zone. See Figure 3-8.1.

**NOTE**

Nozzle shall be located anywhere in the shaded area and aimed at the center of the protected zone.

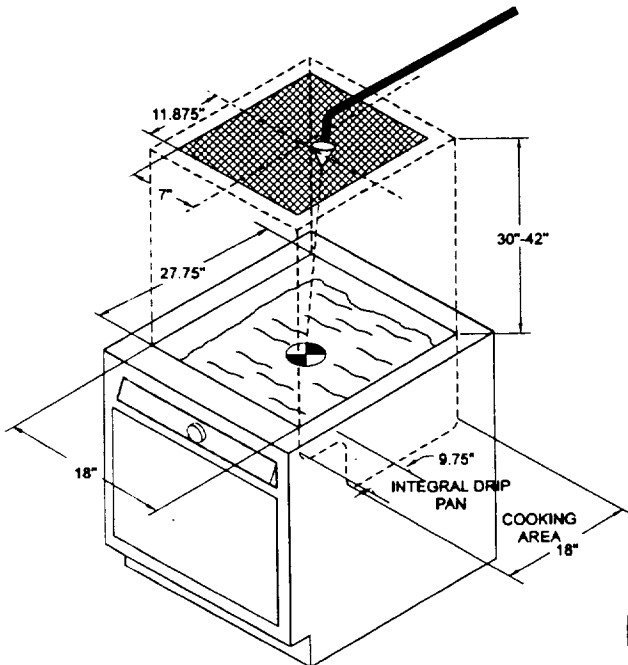


Figure 3-8.2. Model NL-F2 Nozzle Placement, Deep Fat Fryer.

**NOTE**

For installations that require the use of the Model NL-F2 or the Model NL-FL2 nozzle to protect a deep fat fryer in accordance with Deep Fat Fryer Coverage 3.1 and 3.2 shown here (See Figure 3-8.2 and Figure 3-8.3), the following additional restrictions apply to the main supply line piping before this nozzle:

1. Minimum length, linear: 8 feet
2. Minimum length, equivalent: 14.1 feet
3. Minimum system flow points: 4
4. Minimum branches (total): 3
5. Minimum Flow Points Before Nozzle: 2

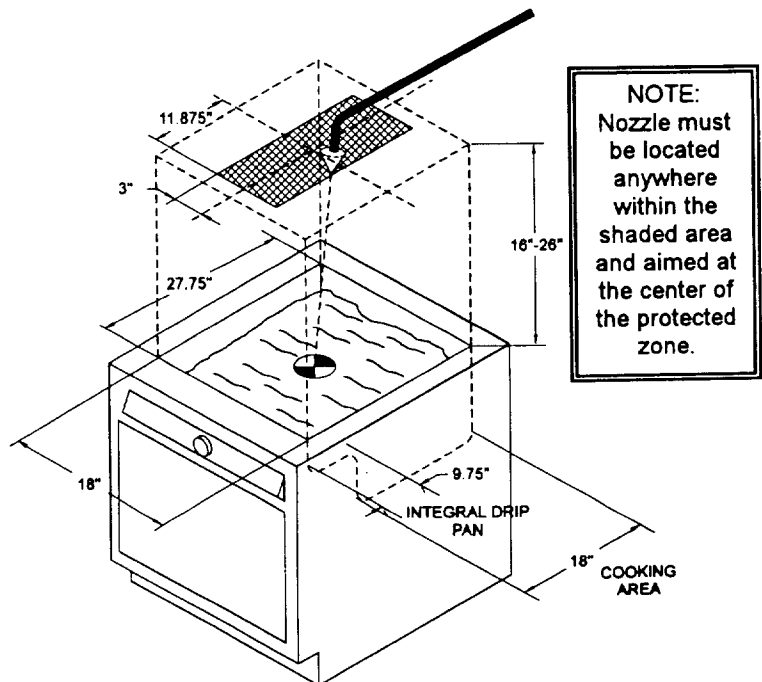
### 3.2. Deep Fat Fryer Coverage.

The Model NL-FL2 nozzle is a two (2) flow point nozzle that is used for the protection of a single vat of a deep fat fryer. The maximum area that can be protected by a single NL-FL2 nozzle is:

1. Cooking Area: 18" x 18"
2. Integral Drip Board: 18" x 9.75"

The nozzle must be located within 11.875" of the center of the longest side, and within 3" of the center of the shortest side of the cooking surface and aimed at the center of the protected zone. The nozzle must be mounted 16" to 26" above the top surface of the deep fat fryer (see Figure 3-8.3).

The tip of the Model NL-FL2 nozzle has two flat areas designed to assist aiming. The nozzle must be positioned so that these flat areas are parallel to the longest side of the protected zone. See Figure 3-8.1.



**NOTE:**

Nozzle must be located anywhere within the shaded area and aimed at the center of the protected zone.

Figure 3-8.3. Model NL-FL2 Nozzle Placement, Deep Fat Fryer.

supply line must be balanced to within +/-10% on either side of the splitting tee. The difference in flow points on each side of the splitting tee cannot exceed one flow point.

## 2. Branch Line Piping.

Branch piping is used to connect the discharge nozzles to the main supply line. This piping is connected to the side outlet of main supply line tees. The last branch is connected to an elbow at the end of the main supply line. There are seven (7) types of branch piping:

1. One (1) Nozzle Duct Branch.
2. Two (2) Nozzle Duct Branch.
3. One (1) Nozzle Plenum Branch.
4. One (1) Nozzle Appliance Branch.
5. Two (2) Nozzle Appliance Branch.
6. Three (3) Nozzle Appliance Branch.
7. Four (4) Nozzle Range Branch.

## UNDERSTANDING EQUIVALENT PIPING

Piping limitations in this chapter are given in both linear and equivalent lengths.

Linear piping is the actual length of straight pipe used on either the main supply line or a branch.

Equivalent piping is equal to the total linear pipe used on either the main supply line or a branch plus the equivalent length of any fittings used on either the main supply line or a branch. See **Figure 3-15**.

**Equivalent Piping** = (Linear Piping) +  
(Total Equivalent Length of Fittings Used)

All pipe fittings develop a pressure loss which can be equated to the loss through a specific length of straight pipe. This loss is the equivalent length of the fitting. See **Table 3-1**.

PIPE SIZE	45° ELBOW	90° ELBOW	TEE FLOW THROUGH	TEE SIDE OUTLET	UNION OR COUPLINGS
3/8"	0.6	1.3	0.8	2.7	0.3
1/2"	0.8	1.7	1.0	3.4	0.4

**Table 3-1. Pipe Fitting Equivalent Lengths In Feet.**

An example of the total equivalent piping calculation for a typical branch is illustrated by **Figure 3-15**.

**NOTE**

The only acceptable types of piping which can be used with the Pyro Chem System are black pipe, stainless steel, or chrome plated pipe. Galvanized pipe cannot be used.

## MAIN SUPPLY LINE PIPING LIMITATIONS

### 1. Model PCL-240.

Main supply line piping limitations for the PCL-240 are given by **Table 3-2**. The maximum length of main supply line between the first and last branch tee is 16 feet. Examples of acceptable piping configurations are shown in **Figure 3-16**.

SECTION	PIPE DIA.	MAX. FLOW POINTS	MAX. LENGTHS FEET		MIN. LENGTHS FEET		MAX. VERTICAL RISE
			LINEAR	EQUIV.	LINEAR	EQUIV.	
Main Supply Line	3/8"	8	21	36	3	7	8'

**Table 3-2. Model PCL-240. Main Supply Line Piping Limitations.**

**NOTE**

For installations that require the use of the Model NL-F1.25 nozzle, the following additional restrictions apply:

1. Minimum length, linear: 5.5 feet
2. Minimum length, equivalent: 12 feet
3. Minimum system flow points: 3
4. Minimum branches (total): 3

### 2. Model PCL-350.

Main supply line piping limitations for the PCL-350 are given by **Table 3-3**. The maximum length of main supply line between the first and last branch tee is 30 feet. Examples of acceptable piping configurations are shown in **Figure 3-17**.

SECTION	PIPE DIA.	MAX. FLOW POINTS	MAX. LENGTHS FEET		MIN. LENGTHS FEET		MAX. VERTICAL RISE
			LINEAR	EQUIV.	LINEAR	EQUIV.	
Main Supply Line	3/8" 1/2"	13	35	63	3	7	8'

**Table 3-3. Model PCL-350. Main Supply Line Piping Limitations.**

**NOTE**

For installations that require the use of the Model NL-F1.25 nozzle, the following additional restrictions apply:

1. Minimum length, linear: 5.5 feet
2. Minimum length, equivalent: 12 feet
3. Minimum system flow points: 3
4. Minimum branches (total): 3

### 3. Model PCL-550.

Main supply line piping limitations for the PCL-550 are given by **Table 3-4**. The maximum length of main supply line between the first and last branch tee is 35 feet. Examples of acceptable piping configurations are shown in **Figure 3-18**.

SECTION	PIPE DIA.	MAX. FLOW POINTS	MAX. LENGTHS FEET		MIN. LENGTHS FEET		MAX. VERTICAL RISE
			LINEAR	EQUIV.	LINEAR	EQUIV.	
Main Supply Line	1/2"	20	45	80	3	7	8'

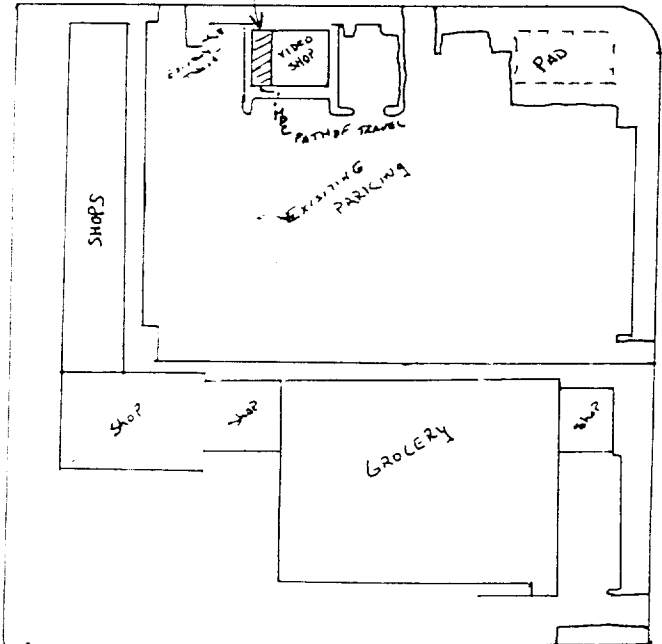
**Table 3-4. Model PCL-550. Main Supply Line Piping Limitations.**

I have shown and approved the plan  
 06/10/1988  
 Henry Soto

TITLE PAGE + SITE PLAN

7 + H + 1

1-20-88  
 1000000  
 [Signature]  
 [Signature]  
 AC

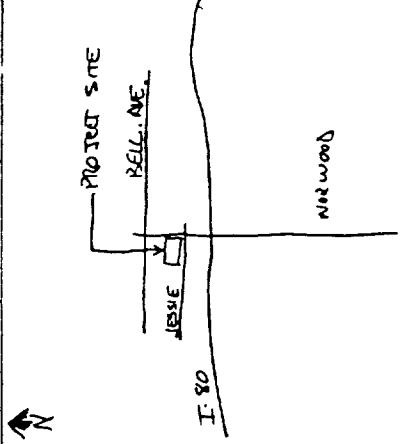


PROPOSED  
 2' x 4' DONUT  
 T.I.

NORWOOD AVE.

PROJECT INFORMATION:  
 1200 SQ FT RETAIL DONUT SHOP  
 EXISTING ONE STORY TYPE U-N FULLY SPRINKLER  
 OCCUPANCY B-2 RETAIL  
 LAST USE "BASKIN ROBBIN ICECREAM"  
 NORWOOD CENTER  
 NORWOOD + JESSIE AVE.  
 SACRAMENTO, CA

VICINITY MAP



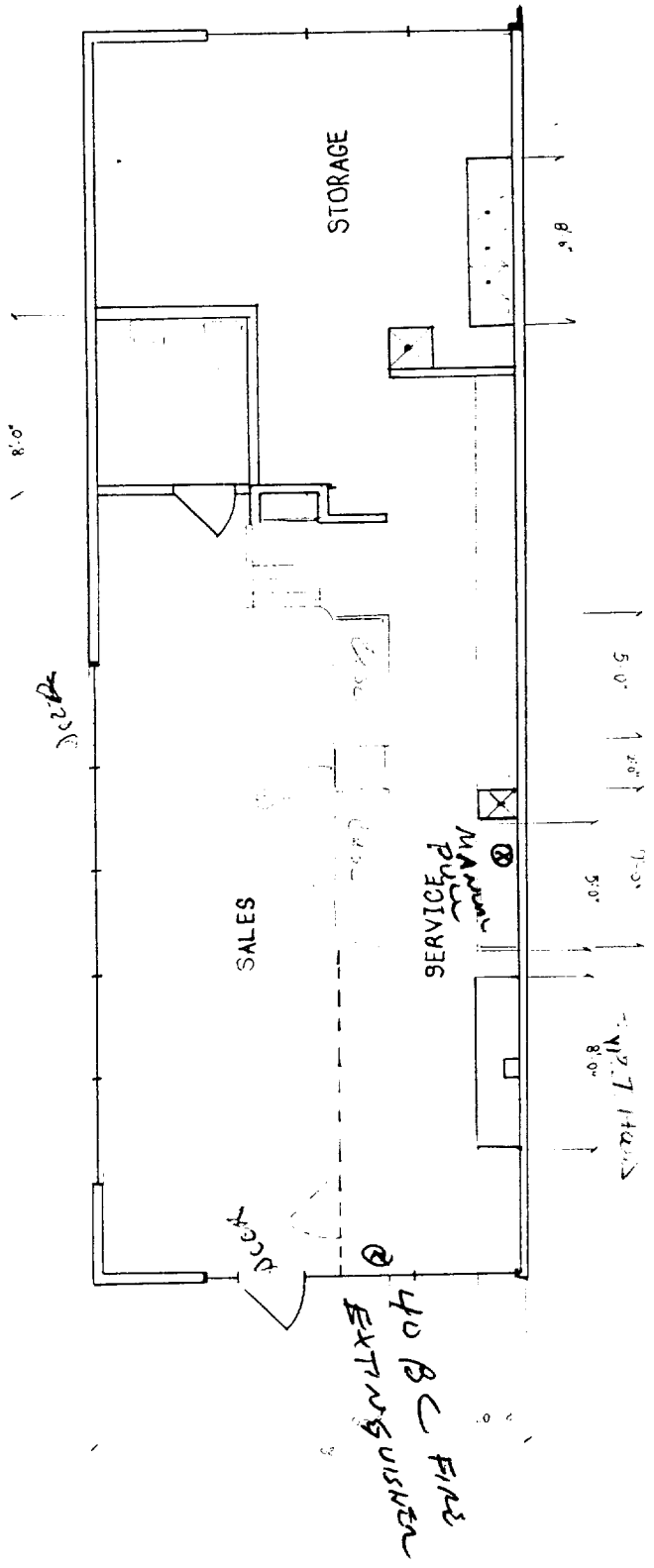
SHEET INDEX

- AO.1 TITLE SHEET + SITE PLAN
- AO.2 FLOOR PLAN EXISTING/MODIFIED
- ME.1 REFLECTIVE CEILING / HOOD
- PE.1 EXISTING / NEW ELECTRICAL
- DE.1 DETAILS IMPROVEMENTS EQUIPMENT

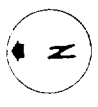
SCOPE OF WORK

1. MOBILITY COUNTER TOPS TO ACCEPT ALL DISHWASHER
2. REMOVE 2-TUB SINK AND INSTALL 3-TUB SINK
3. INSTALL NEW 8' COOKING HOOD WITH FANS.
4. REPAIR EXISTING WALL + INSTALL NEW 3' x 6' DOOR
5. INSTALL COOKING EQUIPMENT W/IN HOOD.
6. PAINT TO MATCH AS CLOSE AS POSSIBLE.
7. INSTALL EXTERIOR SIGN LETTERS FOR SIGN.

I have drawn a rough sketch of the plan  
 06/08/98  
 King Site



40 BC FINE  
 EXTENSIVE USE



FLOOR PLAN

Revision  
 1 04/09/98  
 2 21/05/98 1/2  
 3 01/01/99

John Bunker

James Bunker

A.02

Plan

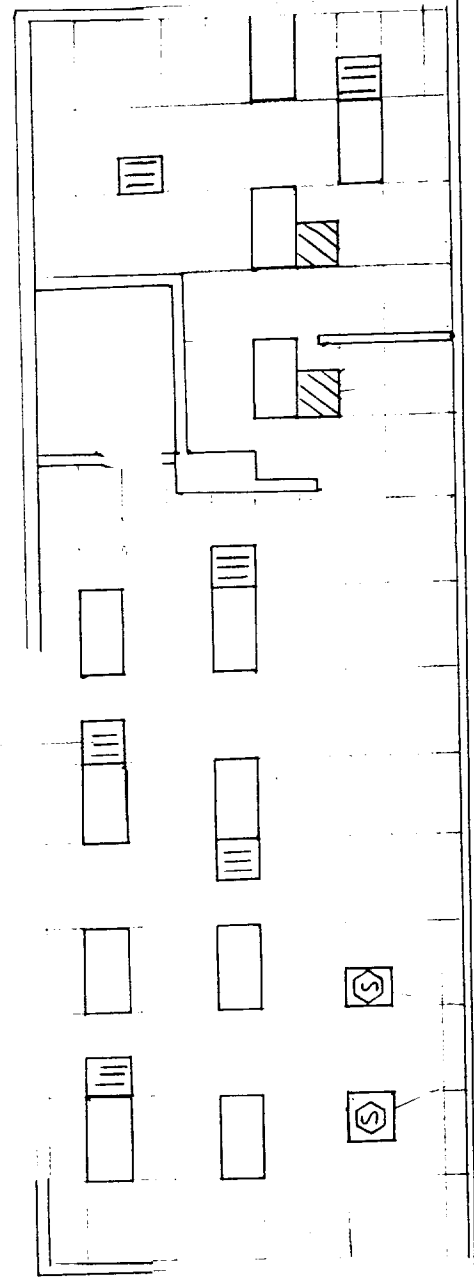
I have seen and approved  
06/05/98  
Craig Sisk

Room 1901  
5/19/98  
5/19/98  
2. Revised 6/2/98  
J.W.S.

Jim Gamm  
J. Gamm

M1

REFLECTED CEILING PLAN

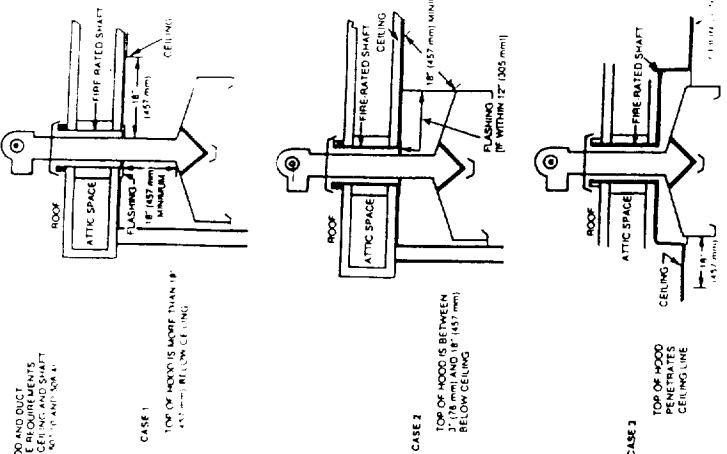


REFLECTED

MINIMUM  
SAMPLE



TYPE HOOD AND DUCT CLEARANCE REQUIREMENTS, SEE SECTION 501.10.1 AND SHAF T SECTION 501.10.2

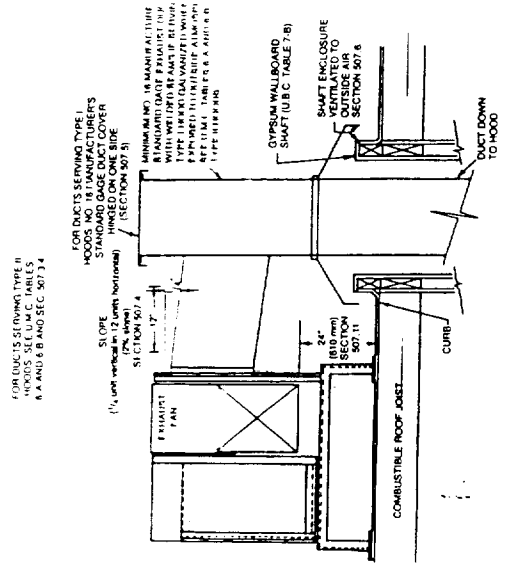


CASE 1  
TOP OF HOOD IS MORE THAN 18\"/>

CASE 2  
TOP OF HOOD IS BETWEEN 12\"/>

CASE 3  
TOP OF HOOD PENETRATES CEILING LINE

SCHEMATIC DIAGRAM—DO NOT USE FOR CONSTRUCTION



TYPICAL DETAILS—OTHER EXHAUST SYSTEMS

Figure 57

Figure 58

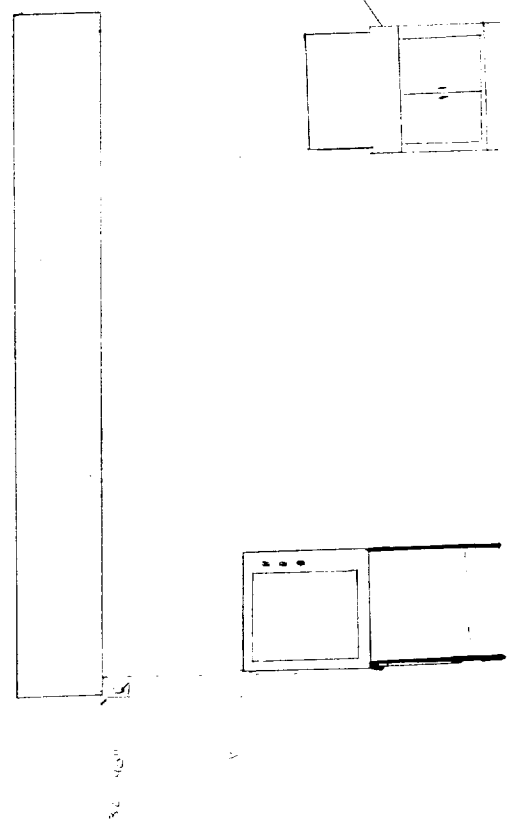
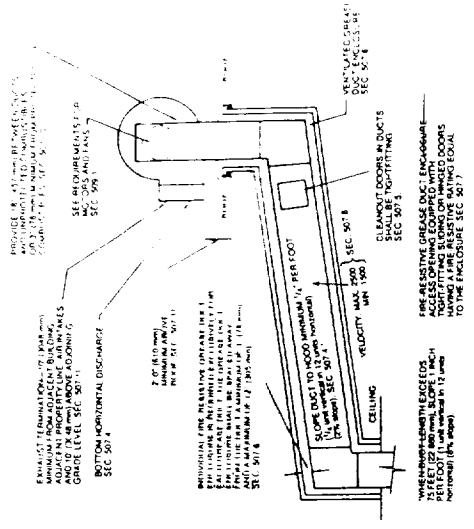


Figure 58

MINIMUM CLEARANCE TO EXHAUST SYSTEM



- GENERAL
1. ALL HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>
  2. ALL HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>
  3. HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>
  4. HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>
  5. HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>
  6. HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>
  7. HOODS AND DUCTS SHALL BE CONSTRUCTED OF AT LEAST 1/4\"/>

Figure 58

*I have seen and approved  
the plan 06/05/98  
Jing*

# MEMORANDUM

*Sacramento Fire Department*

To: BUILDING DEPARTMENT

Date: 11-23-98

From: Gordon Duncan,  
Fire Marshal

Subject: **FIRE SYSTEM INSPECTION**

A final inspection of the newly installed fire system at:

4201 NORWOOD AVENUE

has been conducted by Inspector K. Lee

on 11-20-98.

98-10560-C

Permit Number

N/A

Square Footage

KIT HOOD

Type Inspection

The system is acceptable by this department.

R. Woodman

By: Ross L. Woodman,  
Fire Prevention Officer II

98-261

F. D. Reference Number