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AUG 05 2010

Bureau of Air Monitoring
& Mobile SourcesHUMAN CREMATORY
AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050(4)(o), F.A.C. (\$100 as of the effective date of this form)

0251325-002

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
 Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
 Continue operating the facility after a change of ownership.
 Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): ARMS No. 0251325-001
 No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Florida Cremation & Autopsy, LLC

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

Florida Cremation & Autopsy, LLC

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 12830 NW 42 avn

City: OpaLocka

County: Miami Dade

Zip Code:

33054-4434

Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)

September 15th 2010

Owner/Authorized Representative

<u>Name and Position Title</u> (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: Jorge A. Montero / Manager Member		
<u>Owner/Authorized Representative Mailing Address</u> Organization/Firm: Florida Cremation & Autopsy, LLC Street Address: 12830 NW 42aven. City: Opalocka County: Miami Dade Zip Code: 33054		
<u>Owner/Authorized Representative Telephone Numbers</u> Telephone: (305) 7732695 Fax: 786-427-1301 Cell phone (optional):		

Facility Contact (If different from Owner/Authorized Representative)

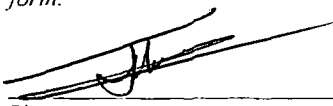
<u>Name and Position Title</u> (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title:		
<u>Facility Contact Mailing Address</u> Organization/Firm: Street Address: City: County: Zip Code:		
<u>Facility Contact Telephone Numbers</u> Telephone: Fax: Cell phone (optional):		

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.


Signature

07/29/10
Date

Design Calculations

If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees F.

- Manufacturer's' design calculations attached.
- Registration is not for proposed new human crematory unit(s).

Description of Facility

Below, or as an attachment to this form, provide a description of all crematory operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

Installation of new Super Power Pak III human crematory unit at existing facility.

See attached process flow diagram.

* See attached Air Emission Calculation Table for both machines.

Florida Cremation and Autopsy

AIR EMISSION CALCULATION TABLE

Data.-

Facility:	Florida Cremation and Autopsy		
Equipment:	Human Crematory Units		
Natural gas heat value*:	1,050 BTU/cu-ft		
Units max. heat input:			Heat output includes primary & secondary chambers and afterburners
Super Power Pak III	2.00 MMBTU/hr		
N-20AA	2.50 MMBTU/hr		
N-20AA	2.50 MMBTU/hr		
Total Heat Output:	7.00 MMBTU/hr		

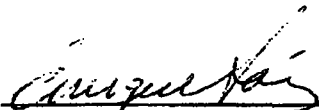
Emissions.-

	Emission Factors**: SCC 10300603	Actual Emission: lb/hr	Potential Emission***: ton/year
CO:	84	5.60E-01	2.4528
VOC:	5.5	3.67E-02	0.1606
NOx:	100	6.67E-01	2.9200
SO2:	0.6	4.00E-03	0.0175
PM10 (Total):	7.6	5.07E-02	0.2219

*From Chemical Engineers Handbook, Perry & Chilton, Fifth Edition, p. 9-12

**US EPA Fire 6.24; AP-42, lb/Million cu-ft of Natural Gas burned

***24 hr/day X 365 days/year = 8,760 hr/year


 Enrique Saez, P. E.
 (Seal)

06/02/2010
 Date

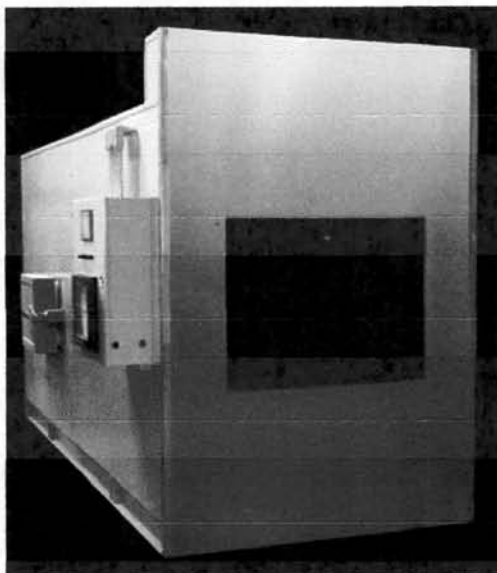
N20AA
information

Translation



Home	Human Crematories	Animal Crematories	Incinerators	Clients	Other
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N20AA Human Crematory



The B&L Cremation Systems, Inc. N20AA human crematory is our medium production system, with cremation times of 100 to 120 minutes

[Download Installation Manual](#)

Specification	U.S Standard	Metric System
Length:	150"	3.8m
Width:	66" (77" With Control Panel)	1.6m (00m with control panel)
Height::	96" (102" With Doorcap)	2.4m (00" With Doorcap)
Weight:	24,000 lbs.	10,886 Kg
Door Opening	40" W x 29" H	0.7m H x 1.0m W
Clean Out Door:	21.750" x 19.750"	
Gas Pressure:	Natural Gas 7" W.C. Propane Gas 11" W.C.	Natural Gas 1.7 kPa W.C. Propane 2.7 kPa W.C.
Power Requirements:	220V, Single Phase, 30 AMPS	
Cremation Rate:	150 lbs/hour	68 Kg/hour
Body Weight Capability:	500 lbs	226 Kg
Stack Height From Grade:	Minimum 18'	5.4m

Stack Sections:	30" O.D	0.7m O.D
Chamber Dimensions:	Length: 94"	2.3m
	Width: 40"	1.0m
	Height: 34.5"	0.8m
	75.0 Cubic Feet	1.84 Cubic Meters
Burner output:	Maximum Input Rating 1,500,000 BTU's per hour	Maximum Input Rating 1,582,500 KJ per hour
	Afterburner Maximum 1,000,000 BTU's per hour (Full Modulation 100%)	Afterburner Maximum 1,055,000 KJ per hour (Full Modulation 100%)
	Ignition Burner 300,000 BTU's per hour	Ignition Burner 316,500 KJ per hour
	Cremation Burner 500,000 BTU's per hour	Cremation Burner 527,500 KJ per hour
Air Requirements:	Outside air inlet louvers in the room located at or below burner height, capable of passing 2,500 CFM of free air.	Outside air inlet louvers in the room located at or below burner height, capable of passing 1.173 Cubic meters per second

Features to the above unit

FULLY AUTOMATIC CONTROL SEQUENCE. Operation is made simple by the fully automatic control sequence. A microprocessor temperature controller, with a digital readout, ensures optimum control while providing the lowest fuel consumption. Visual verification of each stage is provided on the control panel. Operator override is achieved at a turn of a switch for semi-manual control.

HOT HEARTH DESIGN. First introduced by B&L, this design allows for wasted afterburning heat to be recycled through the floor, eliminating fluid problems, lowering fuel consumption and extending the hearth life.

MULTI-CHAMBER AIR CONTROLLED DESIGN. The entire combustion process is completed within the air controlled chambers eliminating burning in the stack, allowing for 24 hour operation and providing for greater fuel efficiency over excess air designs.

POLLUTION MONITORING & CONTROL SYSTEM. This system constantly monitors the stack gases to prevent visible emissions. Integrated with the automatic system, this feature enables the unit to make all necessary adjustments automatically.

REFRACTORY LINED STACK. A three inch insulating liner is provided as a safety feature. While gases seldom exceed 1000°F, the liner reduces heat penetration under every condition, preventing the possibility of fire. A ten year warranty is offered on the stack liner.

LOW NOISE. The secondary combustion blower has been manufactured and installed to allow for low noise operation.

HYDRAULIC LOADING DOOR. Push button operated, this feature enables the operator to open the door to the desired height from the control panel, an important safety feature for busy installations, providing better fuel efficiency and longer refractory life.

STAINLESS STEEL FRONT.** More than just aesthetics. Stainless steel is easy to clean, while providing a professional finish to your equipment...an important feature when considering a viewing.

REMAINS REMOVAL SYSTEM.** A separate remains removal door, located on the side of the unit, is included to enable the operator to push the remains to the rear of the chamber, reducing heat loss and thermal shock as the loading door needs only to be opened 6"- 8" for removal. A stainless steel cooling pan is located on the outside of the unit to prevent fluid contamination.

** Optional on N-20 & N-20SA

© 2009 B&L Cremation Systems, Inc.
 7205 114th Avenue North, Largo, Florida 33773
[Sitemap](#)
 1-800-622-5411

ELECTRICAL SPECIFICATION SHEET

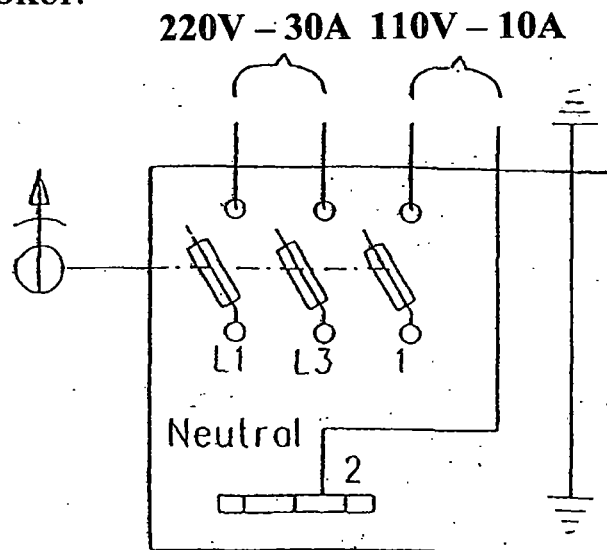
The N-20AA retort requires the following electrical service:

220 Volts Single Phase
60 Cycle, 30 AMP Service & 110 Volts Single Phase
60 Cycle, 10 AMP Service

Remove packing from retort and open door to disconnect box on side of control cabinet (see drawing #8) and proceed as follows:

- (1) Connect 220V single phase to lugs at top of fuse block in disconnect (30 AMP service)
- (2) Connect 110V Hot to lug of fuseblock in disconnect (10 AMP)
- (3) Connect neutral to neutral busbar in disconnect (White)
- (4) Connect ground to ground lug in disconnect (Green)
- (5) All wiring must be suitable for 30 AMP service as specified by N.E.C. Standards and/or local codes, whichever is applicable.

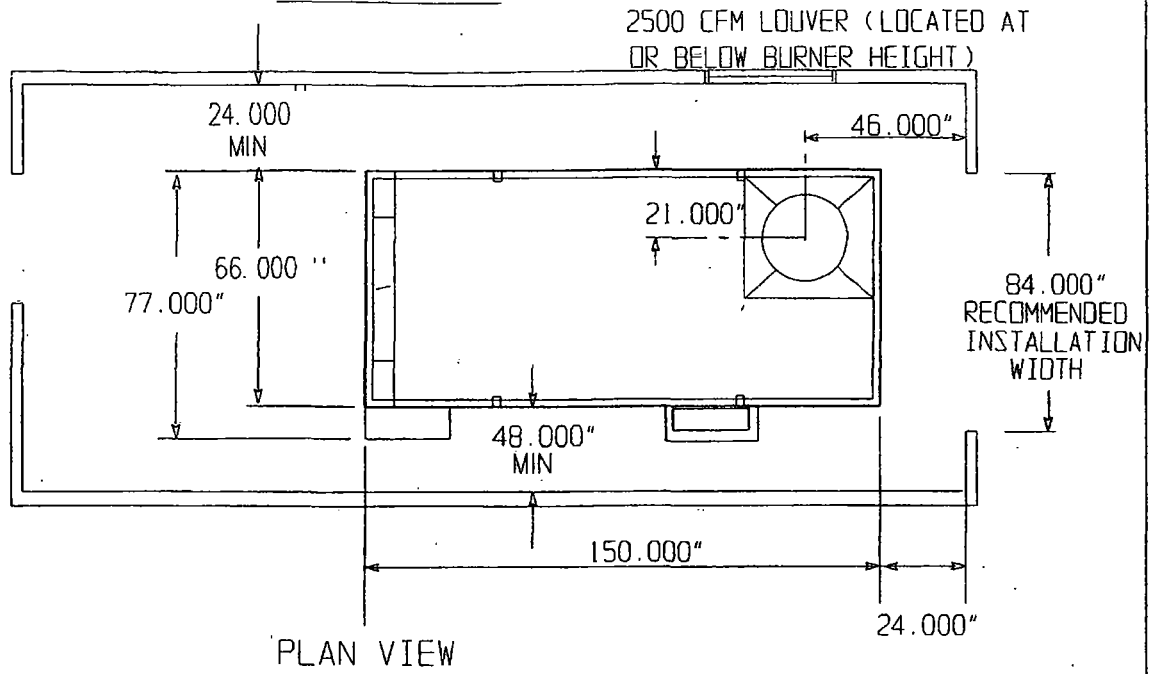
DO NOT ATTEMPT TO OPERATE THE RETORT AFTER COMPLETING THE ELECTRICAL HOOKUP.



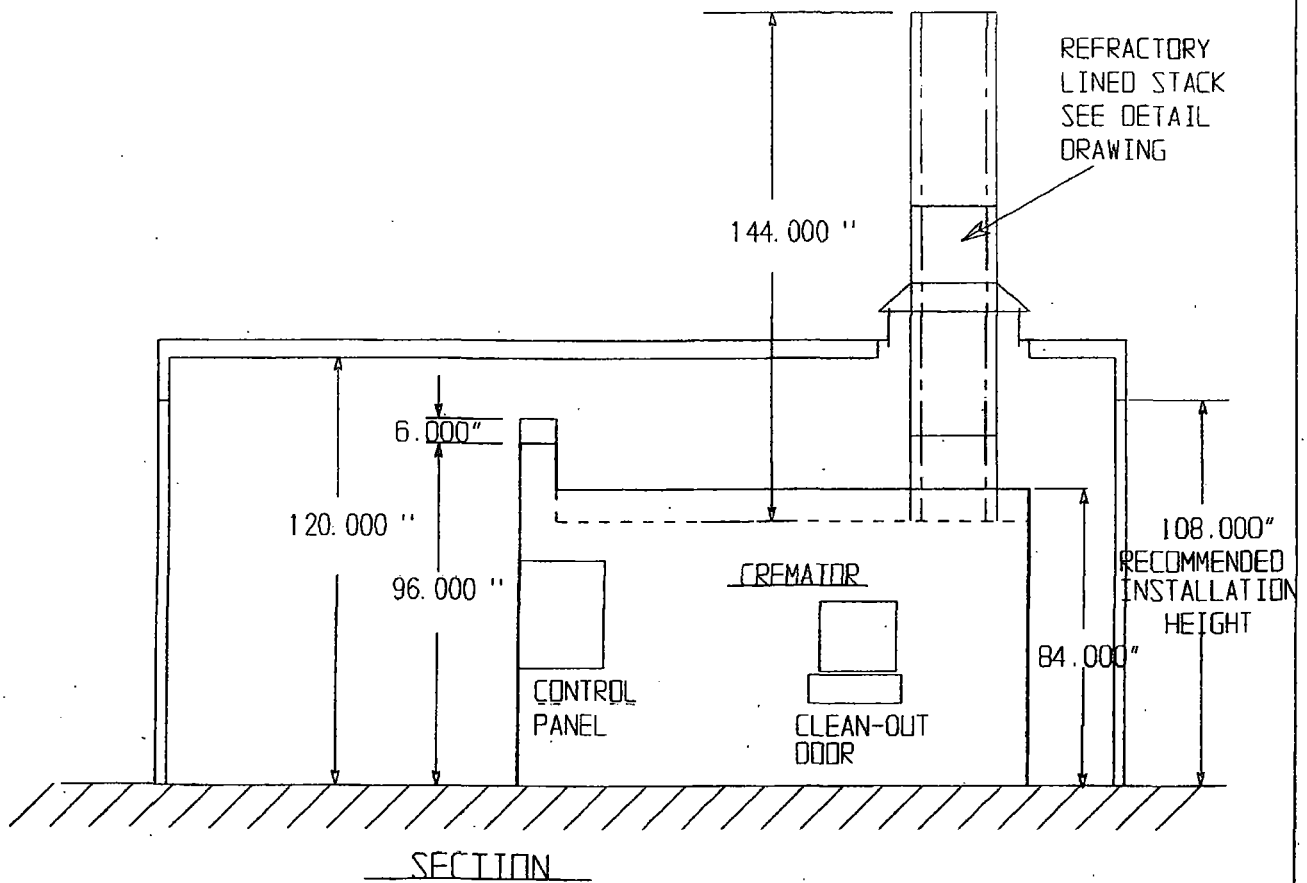
NOTE: A PRIME GROUND MUST BE RUN TO UNIT.

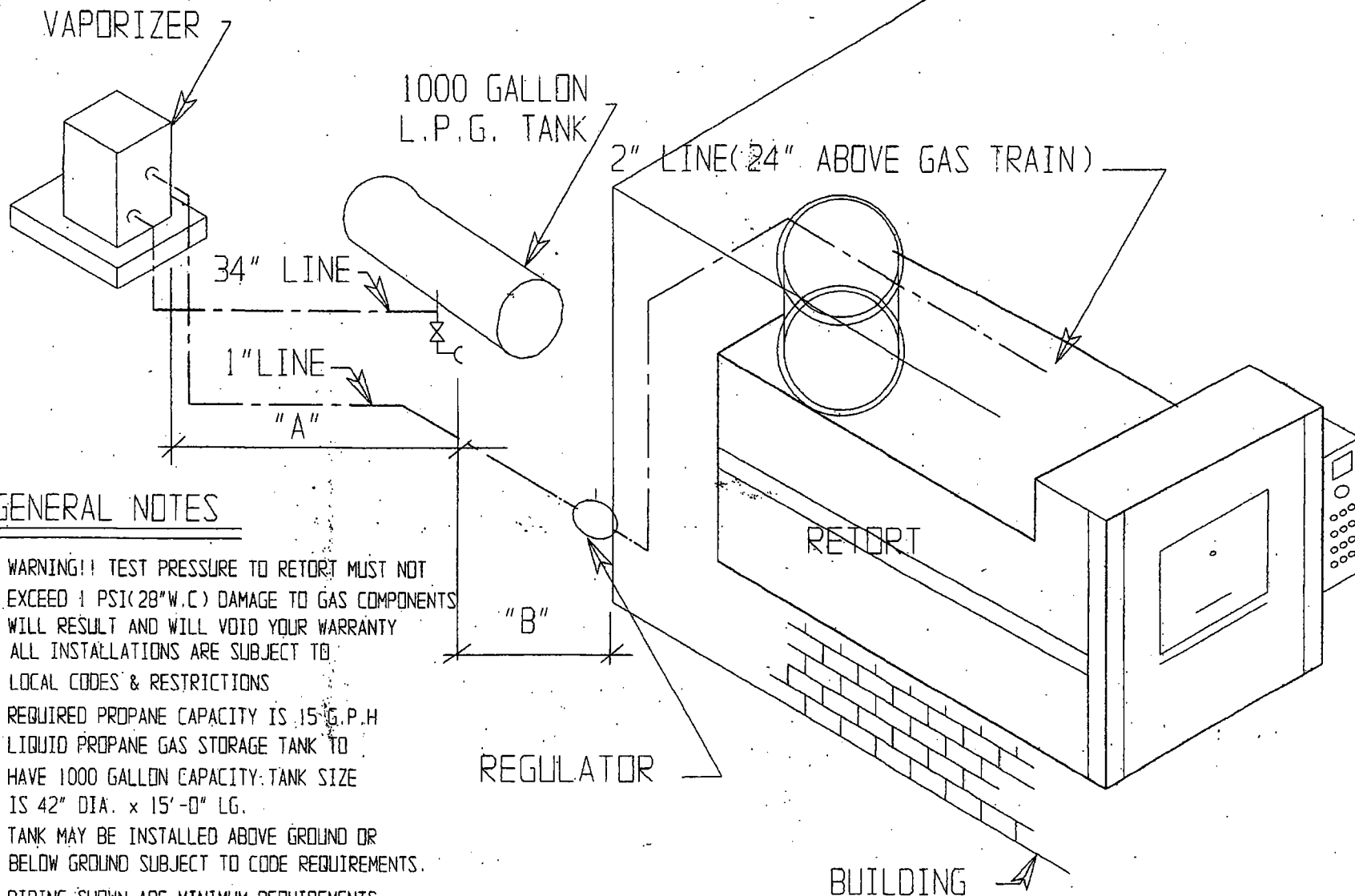
DRAWING #3

N20AA



FOR SIZES ONLY
ORIENTATION MAY CHANGE





GENERAL NOTES

- 1 WARNING!! TEST PRESSURE TO RETORT MUST NOT EXCEED 1 PSI (28" W.C) DAMAGE TO GAS COMPONENTS WILL RESULT AND WILL VOID YOUR WARRANTY
- 2 ALL INSTALLATIONS ARE SUBJECT TO LOCAL CODES & RESTRICTIONS
- 3 REQUIRED PROPANE CAPACITY IS 15 G.P.H
- 4 LIQUID PROPANE GAS STORAGE TANK TO HAVE 1000 GALLON CAPACITY: TANK SIZE IS 42" DIA. x 15'-0" LG.
- 5 TANK MAY BE INSTALLED ABOVE GROUND OR BELOW GROUND SUBJECT TO CODE REQUIREMENTS.
- 6 PIPING SHOWN ARE MINIMUM REQUIREMENTS.
- 7 VAPORIZER IS REQUIRED WHEN AMBIENT TEMPERATURE REMAINS BELOW 40 DEG F FOR MORE THAN 24 HOURS.
- 8 "A" AND "B" DIMENSIONS ARE SUBJECT TO LOCAL CODES.

PROPANE GAS INSTALLATION

DRAWING# 4

2" LINE (24" ABOVE GAS TRAIN)

GAS METER

GENERAL NOTES

- 1 WARNING!! TEST PRESSURE TO RETORT MUST NOT EXCEED 1 PSI (28" W.C.) DAMAGE TO GAS COMPONENTS WILL RESULT AND WILL VOID YOUR WARRANTY
- 2 ALL INSTALLATIONS ARE SUBJECT TO LOCAL CODES & RESTRICTIONS
- 3 2" GAS LINE REQUIRED FROM REGULATOR TO RETORT
- 4 STATIC GAS PRESSURE OF 9" TO 12" W.C. REQUIRED AT RETORT
- 5 OPERATING GAS PRESSURE OF 7" TO 10" W.C. REQUIRED AT RETORT
- 6 FLOW RATE OF 1500 CFH REQUIRED (ACTUAL CONSUMPTION RATE IS 1300 CFH)
- 7 LOW PRESSURE REGULATOR WITH RANGE OF 5" TO 12" W.C. RECOMMENDED

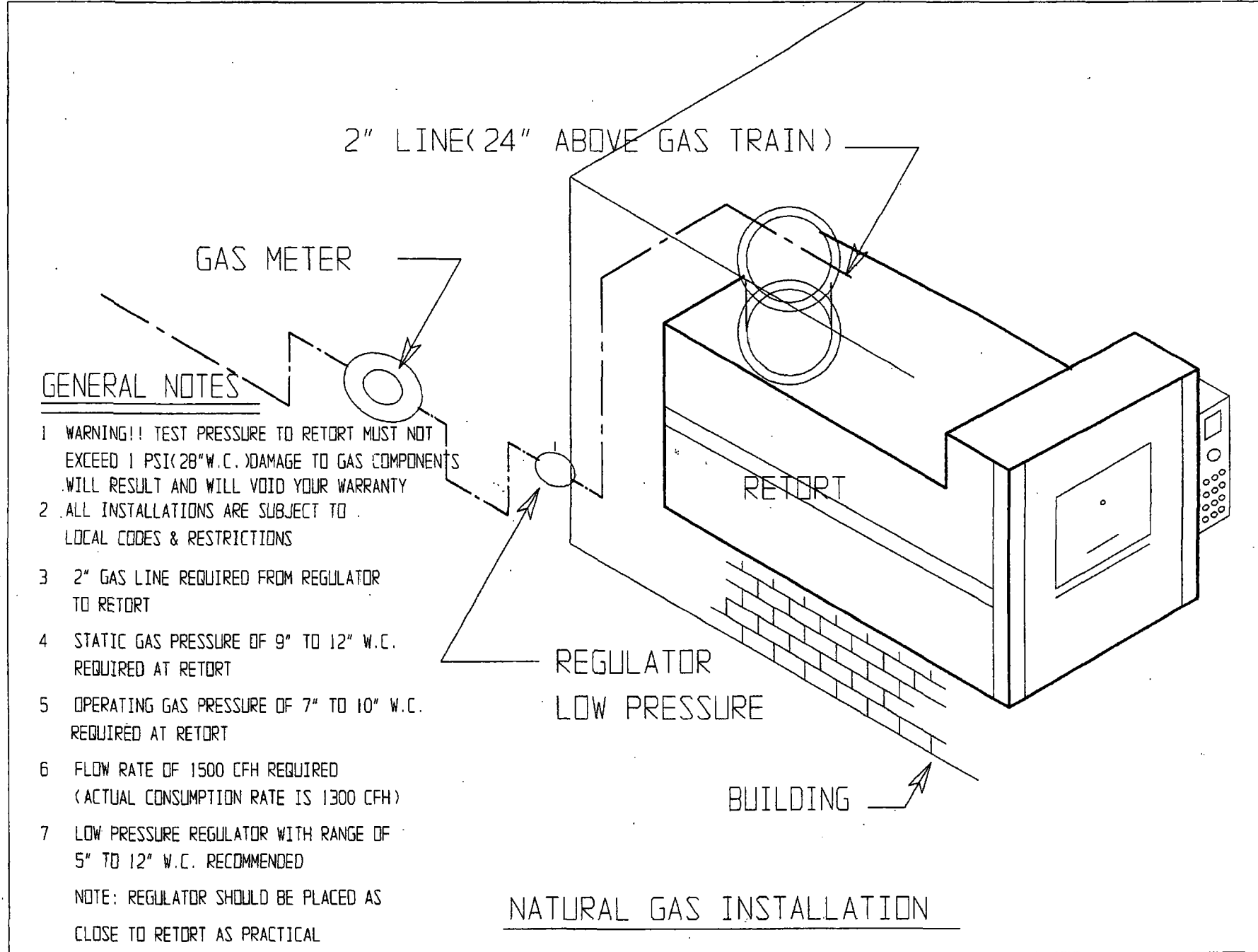
NOTE: REGULATOR SHOULD BE PLACED AS CLOSE TO RETORT AS PRACTICAL

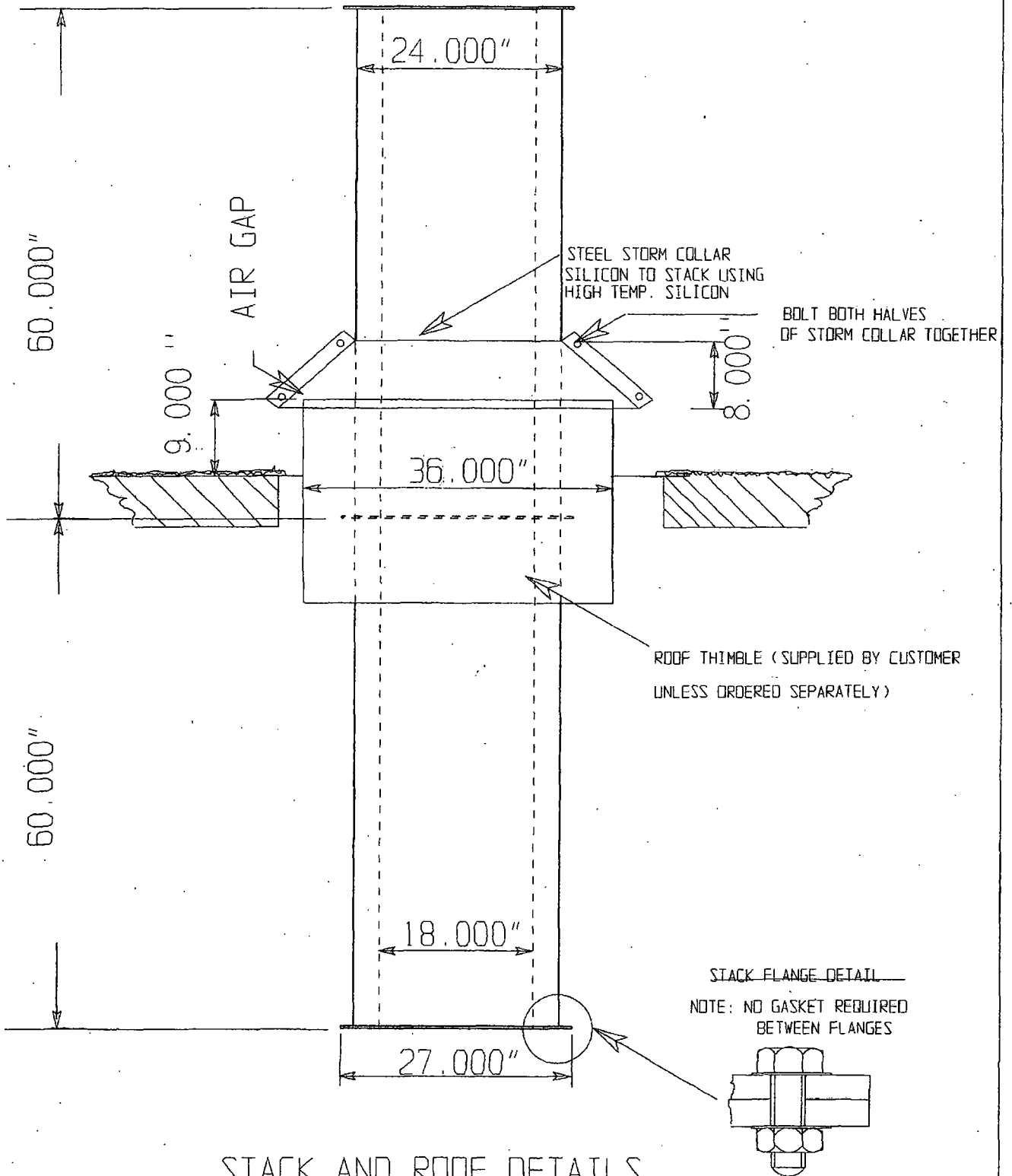
REGULATOR
LOW PRESSURE

BUILDING

NATURAL GAS INSTALLATION

DRAWING #5

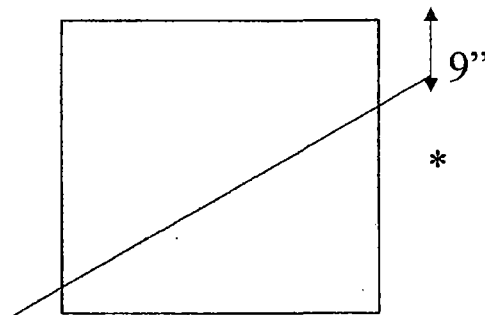
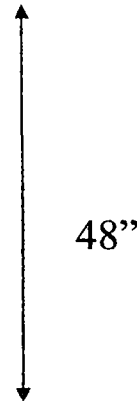
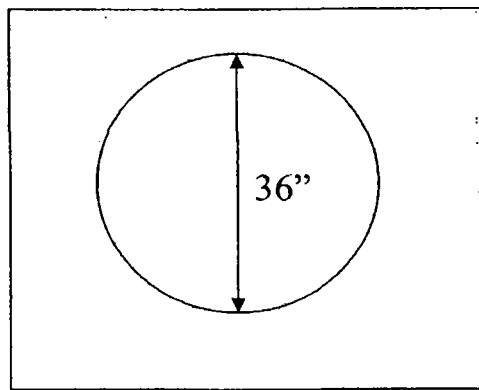




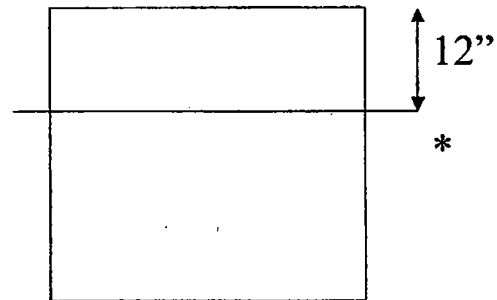
STACK AND ROOF DETAILS

Drawing #7

ROOF THIMBLE DETAIL FOR STANDARD 24" STACK



*

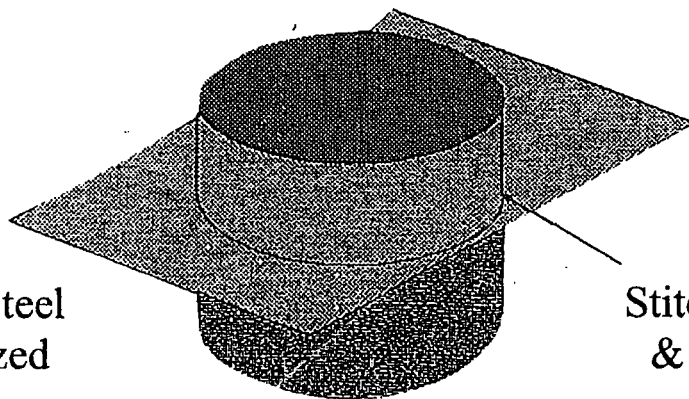


*

Pitched

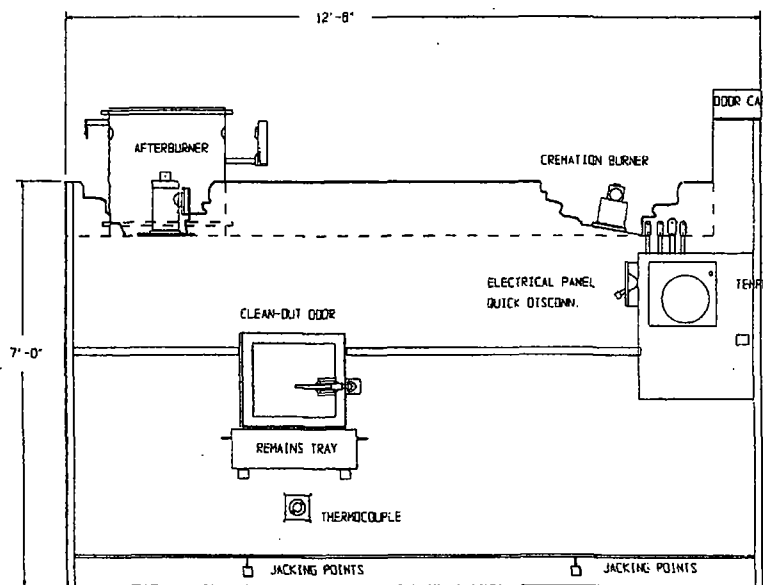
Flat

16-Ga. Steel
Galvanized

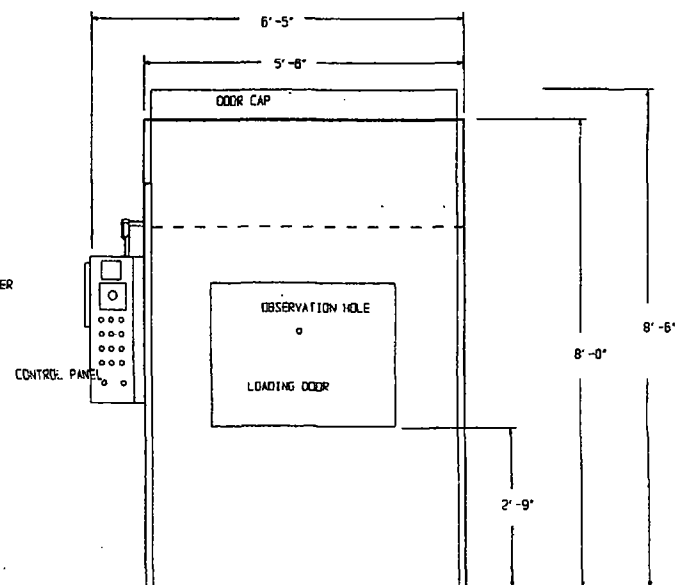


Stitch Welded
& Siliconed

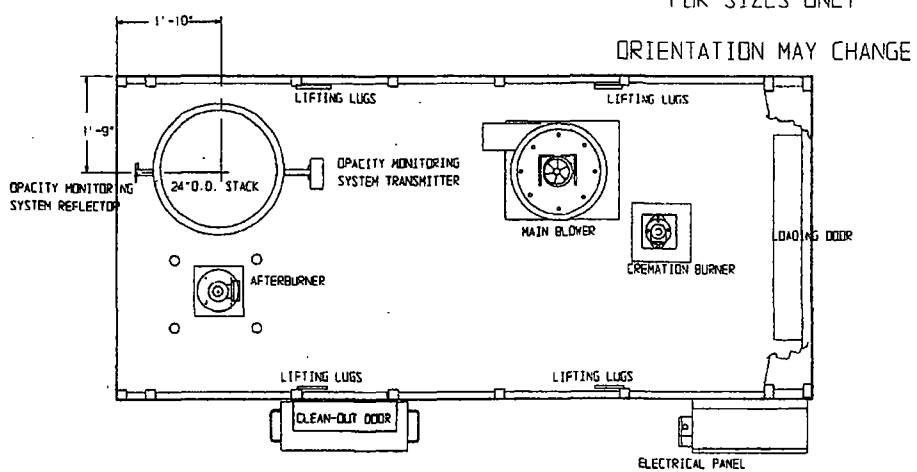
24" * = To Be Determined By Roof Thickness



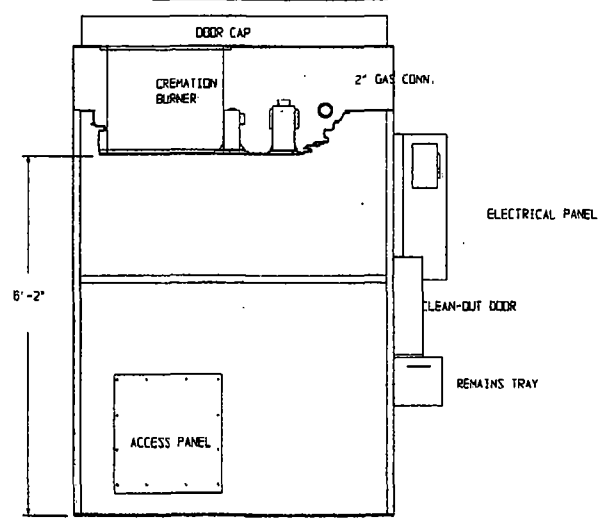
SIDE ELEVATION



FRONT ELEVATION



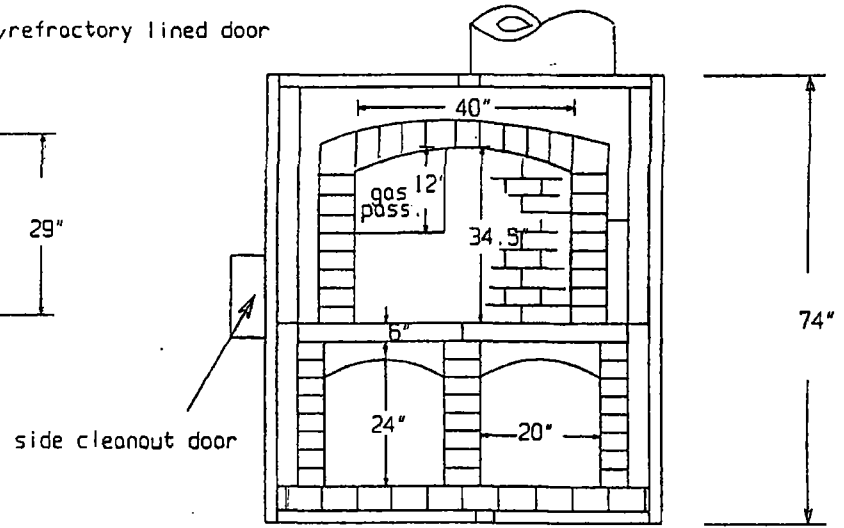
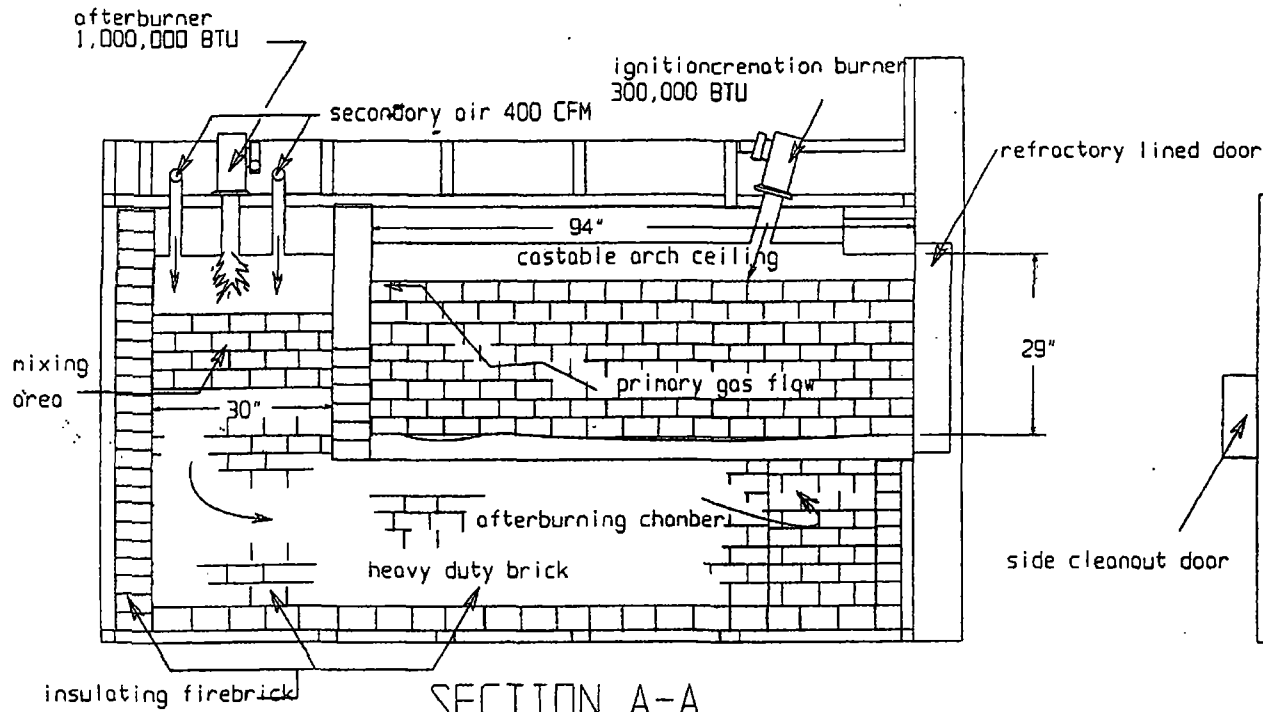
PLAN VIEW



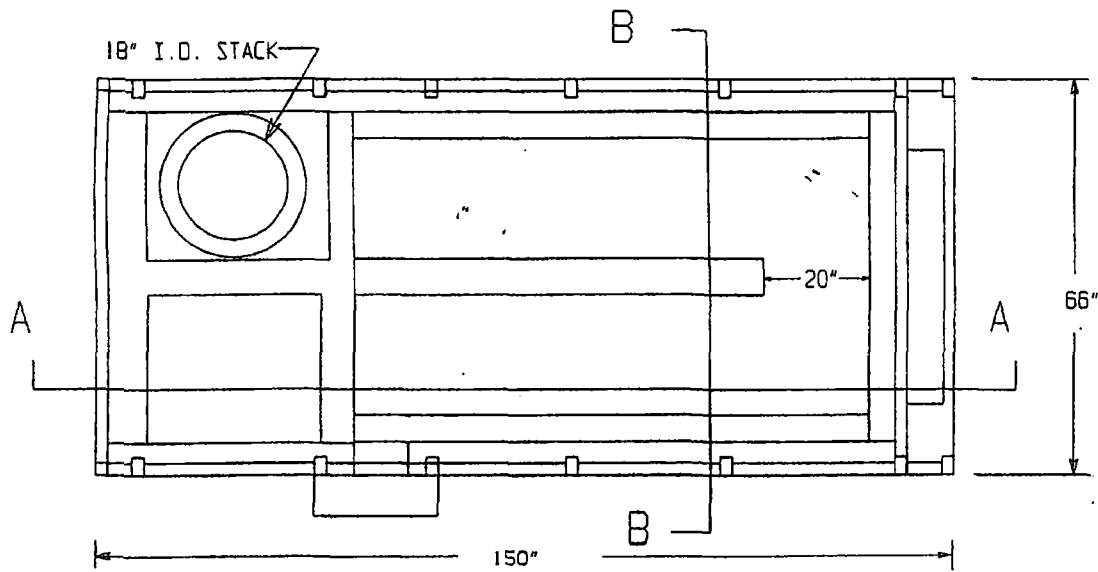
REAR ELEVATION

N20AA

DRAWING #8



SECTION B-B



ALL COMPONENTS U.L. ANDR A.G.A. APPROVED
C.S.A.-C.G.A

N20AA REFRACTORY

MAKE-UP AIR LOUVER

Every installation must have a make-up air louver to supply the unit with fresh air. The recommended size is 24" x 24". In warm climates the air louver can be fixed open with a bug screen. In cold climates a motorized damper should be used, have local electrician run a power, neutral, and ground wire from louver motor to control panel on retort and leave about three feet of wire in panel, technician will hook up at start up. A limit proving switch may be required to ensure the system opens.

Some local codes require a proving circuit for motorized dampers; please consult B&L Systems. Do not modify this control system or install such circuits without consulting B&L as incorrect operation may occur as well as possible voiding of your warranty.

All louvers must be installed at or below burner height - (under 6' from the floor).

Some local codes may require 2 louvers, please contact your local building department.

B & L Cremation Systems, Inc. can supply these louvers for your facility, please contact the factory for prices and additional information.

DIMENSIONS - FIG. 1

	A	B	C	OPENING REQ'D SQUARE
	27"	24½"	24"	25"

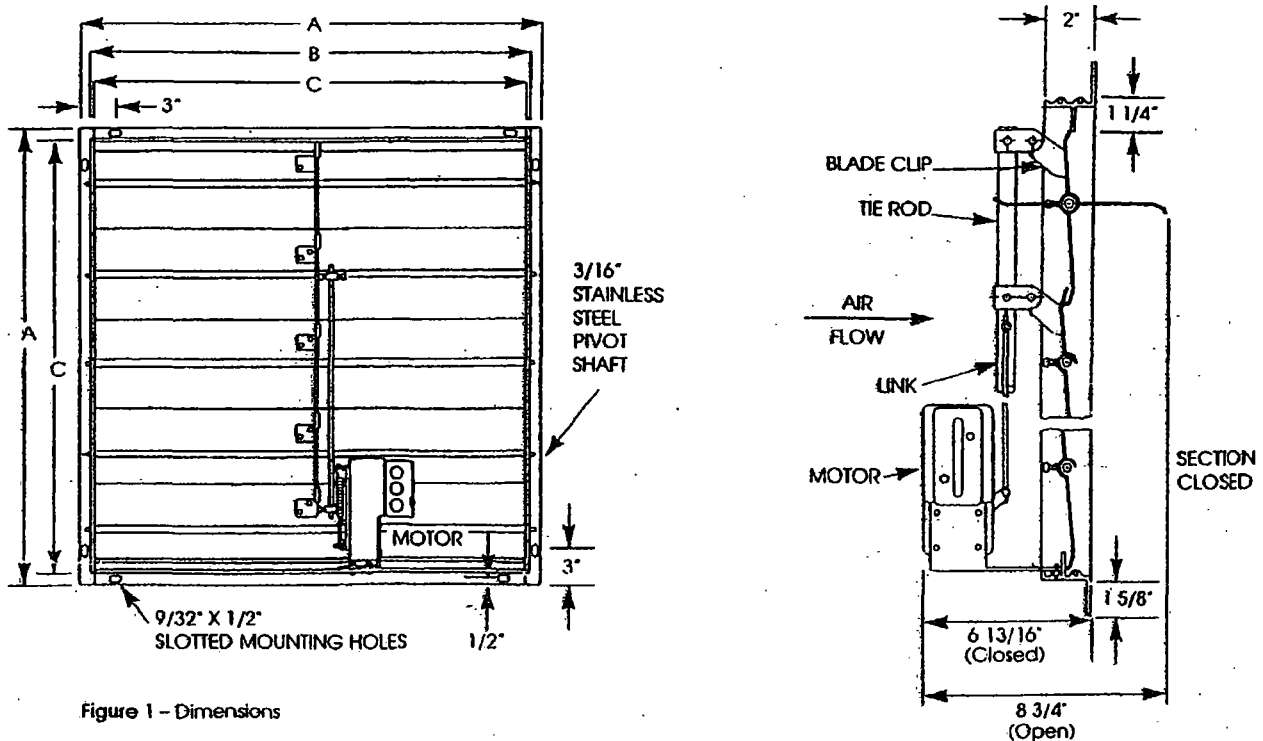


Figure 1 - Dimensions

**GENERAL GUIDELINES FOR INSTALLATION
OF
B & L CREMATION SYSTEMS, INC.
N-20AA CREMATION RETORT**

AMENDED 6/09

Your new B & L Systems Cremation / Incineration Equipment will arrive on a flat bed truck. After the tarp and hold down straps have been removed, please inspect your unit for any damage that might have occurred during shipment. If any damage is found, please contact the factory at once. **DO NOT unload or sign Bill of Lading.**

1. UNLOADING OF YOUR EQUIPMENT BY CRANE

See equipment specifications for size and weight.

Upon arrival of the crane, have the rigger locate the four (4) lifting lugs (see drawing #1), located on top of the unit, and install shackles or other such devices, to enable the crane to lift the unit from the flat bed truck. This unit can also be lifted by placing slings under the unit if preferred.

NOTE: Spreader bars should be used to prevent pinching the top of the unit.

The unit should be raised from the truck bed and the truck should pull forward from the load. **Immediately lower to a close proximity to the ground**, in order to decrease the distance to ground, in case the shackles or rigging should fail.

The crane may now maneuver the unit as close to the building opening as feasibly possible. Tank dollies or equipment rollers should then be placed under the upright side supports to the unit. The crane can now lower the unit onto the rollers and the rigger may now disengage the crane. The unit should then be physically pushed into its final position.

If your state requires permits, they must be in hand prior to shipping the unit to your location. B & L Cremation Systems submits only for the environmental permit, any other permits that may be needed are your responsibility. Please check with your local authorities.

NOTE: Pipe or solid round stock can also be used.

Locate the four jack points (see drawing #1). Toe jacks or a similar apparatus may now be used to raise the unit, in order to remove the equipment rollers or tank dollies. The unit may now be lowered into its final position and the toe jacks can be removed. The unit should be as level as possible and any unevenness in the floor should be compensated with metal shims (see drawing #2). The rigger may now proceed in the bolting together of the stack sections (no gasket is required). The crane can now lift the stack into place and the rigger will bolt the flange on the bottom of the stack to the stack section on the top of the unit. The crane and flat bed truck may now depart. The unit comes with two tie downs on the back of the unit so it can be secured to concrete pad. Your contractor needs to drill lag bolts in slab to anchor unit to slab in final position. (½" dia. hole in tie downs for anchoring purposes)

The retort will be shipped on a flat bed trailer complete with two 5' sections of lined stack. Additional stack may be included if required for your installation. The retort has been packaged prior to shipment. **DO NOT REMOVE PACKING UNTIL THE UNIT IS IN PLACE.**

SHIPPING INFORMATION
N-20AA SERIES

RETORT

Height	8' - 0" (8'-6" with door cap)
Width	5' - 6" (6' -5" with control panel)
Length	12' - 6"
Weight	24,000 lbs.

STACK SECTIONS

Height	5' 0" (each section)
Width	24" O.D.
Weight	575 lbs. (each section)

CLEARANCES

	<u>Minimum Clearance To A Combustible</u>	<u>Recommended Working Clearance</u>
Top of machine to ceiling:	Minimum 6"	Minimum 24"
Side of machine to wall:	Minimum 6"	Minimum 6"
Back of machine to wall with clean out:	Minimum 18"	Minimum 48"
Front of machine to wall:	Minimum 48"	Minimum 8'
Stack to roof:	Minimum 6" with thimble	
Thermocouple Location:	Minimum 6"	Minimum 24"

Floor must be noncombustible

**THIS UNIT IS UL (UNDERWRITERS LABORATORIES INC.) LISTED
46YF SPECIAL TYPE INCINERATOR**



LISTED
SPECIAL TYPE INCINERATOR
46YF

2. UNLOADING OF YOUR EQUIPMENT BY FORK TRUCK

Lift retort to clear trailer bed after determining the balance point (**Note:** forks should be fully extended sideways to ensure stable lift). Once raised, the truck can drive forward from under the load. Lower unit onto rollers and push into building to its final position.
SEE CRANE INSTRUCTIONS FOR FINAL SETTING (pg. 1)

A qualified electrician may now bring the required power to the control panel (see specifications for voltage requirements page 5). Check with the factory if this is a remote installation. Your local utility company or plumber can hook the gas line to the unit and test for leaks (for pipe size information see drawings #4 & #5).

Upon completion of all of the above, contact the factory for a start-up date. Please allow for a minimum of two weeks notice.

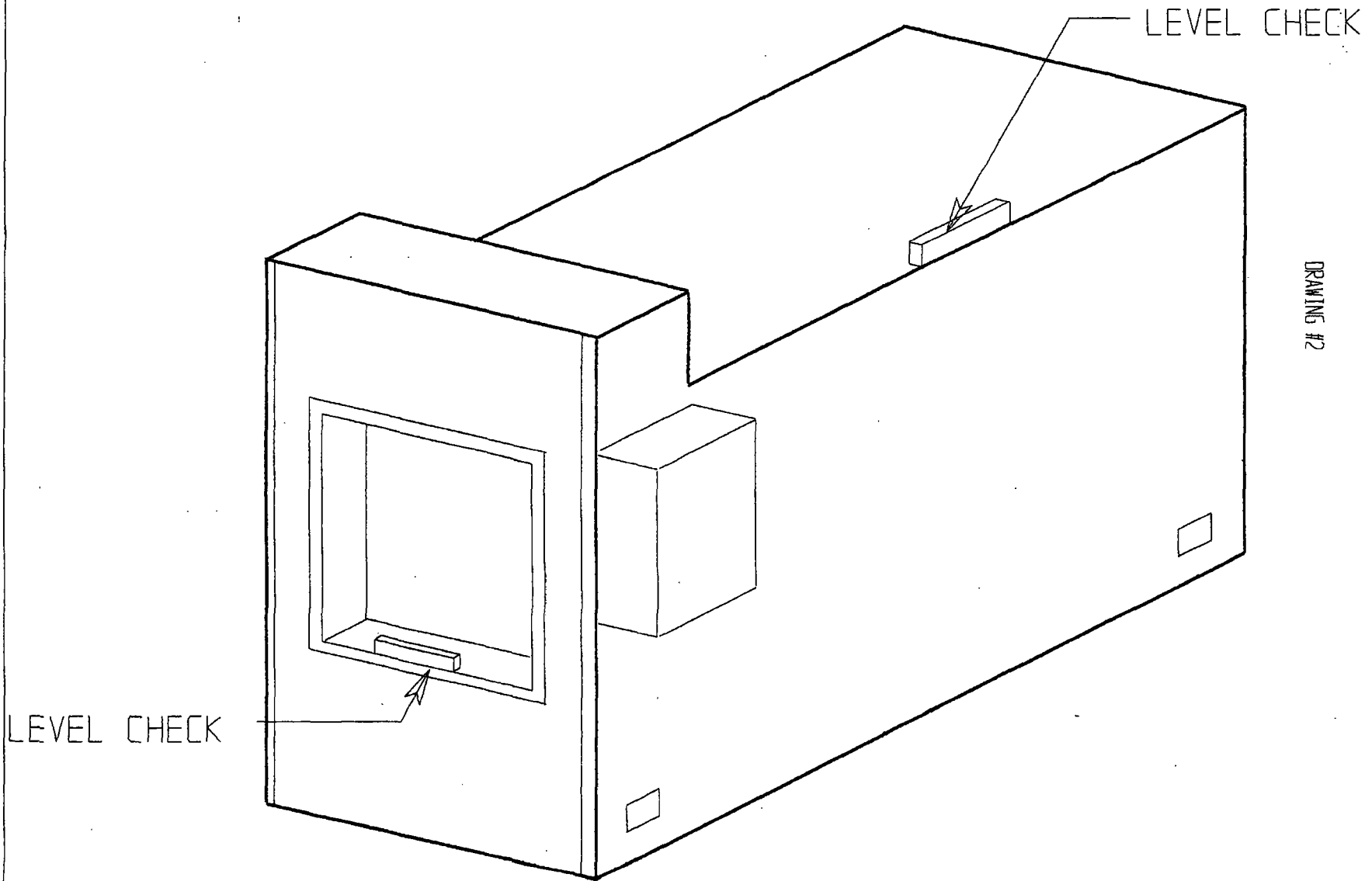
NOTE: The above mentioned procedures are to be used only as a guide. Your own installers may wish to differ from these guidelines as they see fit.

SITE SPECIFICATIONS

The concrete pad should be at least 4" thick (6" if possible) and the building and clearances should meet all local and federal codes (see drawings #3 & #8).

The roof hole size should be approximately 36" diameter with no combustibles closer than 18" from the stack or 6" from stack with a stack thimble (see stack and roof detail drawing #6 and roof thimble detail drawing #7). Please see applicable local codes.

The roof flashing is supplied by the customer, unless otherwise arranged.



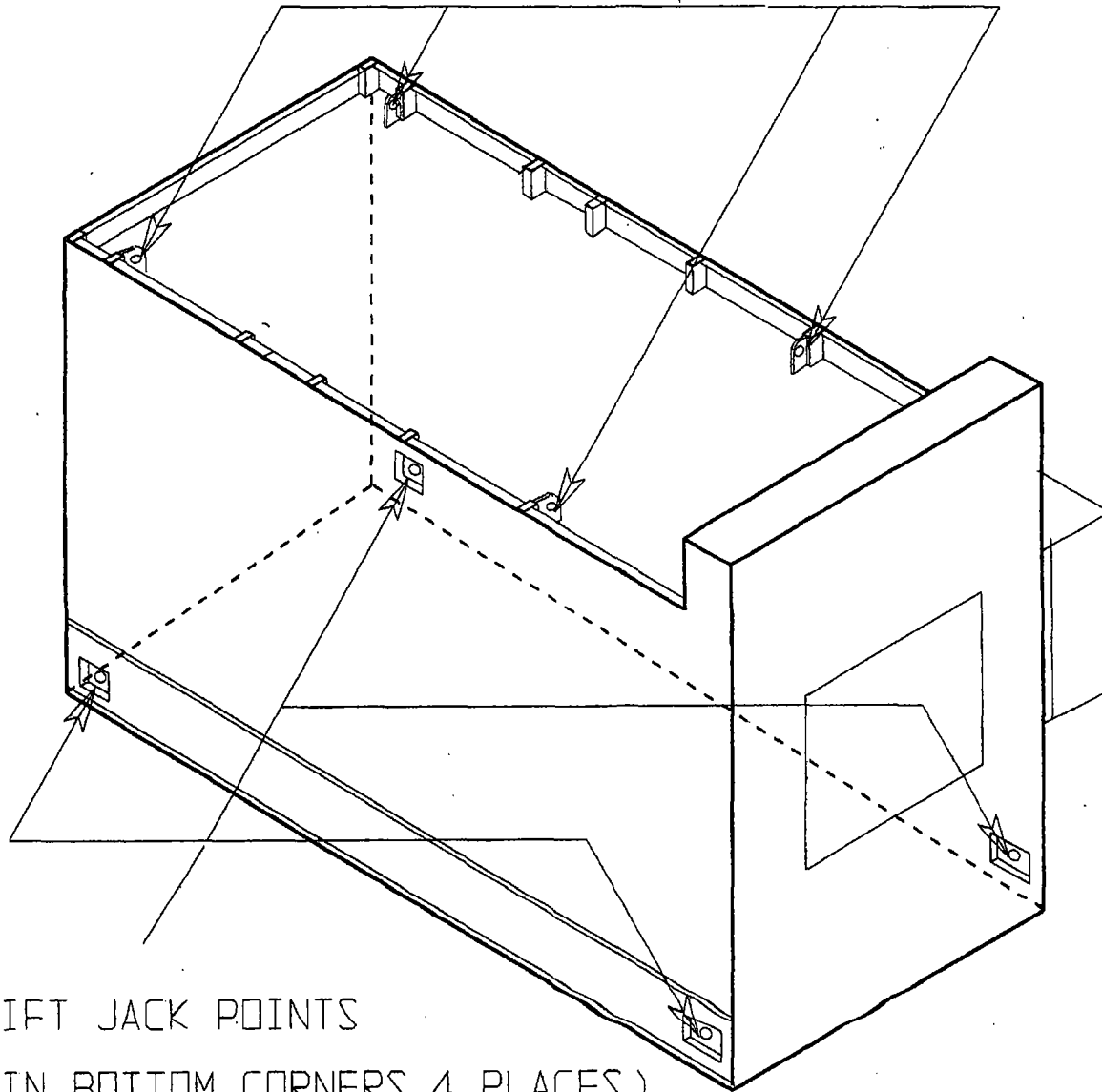
LEVEL CHECK

LEVEL CHECK

DRAWING #2

CRANE LIFTING LUGS

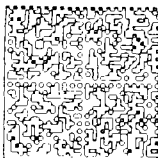
(LOCATED ON TOP OF MACHINE 4 PLACES)



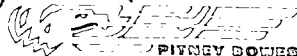
FORKLIFT JACK POINTS

(LOCATED IN BOTTOM CORNERS 4 PLACES)

DRAWING #1



UNITED STATES POSTAGE



PITNEY BOWES

02 1P

\$ 001.56⁰⁰

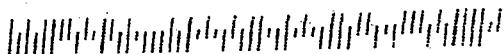
0004187554 JUL 31 2010

MAILED FROM ZIP CODE 33178

USA . Combustion Services

8325 NW 115ct

Doral FL 33178



FDED Receipts

P.O. Box 3070

Tallahassee, FL 32315-3070