



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

January 9, 2008

Mr. William J. Taylor, Vice President
Oak Hammock Crematory
250 Center Street
Jupiter, Florida 33458

Dear Mr. Taylor:

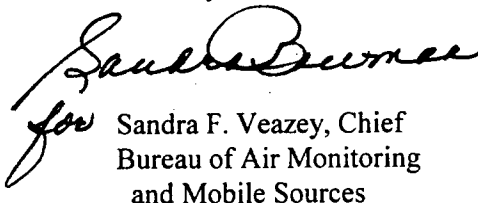
This is to acknowledge that your notification of intent to use the authority of Rule 62-210.310 to operate your facility was received on December 5, 2007. We have assigned ARMS # 0850150-001 to this facility.

As you know, pursuant to Florida Statutes section 403.814, authority to operate under general permits commences thirty days after receipt of the registration form unless you have been notified by this office that your facility has not shown entitlement to operate pursuant to the rule provisions.

For your information, authority to operate pursuant to Rule 62-210.310 expires after 5 years. Therefore, a new registration form must be received no later than 5 years after the date your notice was received as indicated above. If your general permit rule conditions require testing, such testing must be completed within the time frame specified in the rule.

If you have any additional questions, please contact Dickson Dibble at 850/921-9586.

Sincerely,


for Sandra F. Veazey, Chief
Bureau of Air Monitoring
and Mobile Sources

SFV/pg

cc: Mr. Lee Hoefert, Southeast District

HUMAN 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)

 Bureau of Air Monitoring
& Mobile Sources

DEC 11 2007

RECEIVED

0850150-001

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): _____
☒ 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.)

Taylor & Modeen Reality Company DBA Oak Hammock Crematory

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.)

Taylor & Modeen Reality Company, DBA Oak Hammock Crematory

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

Street Address: 16001 SW Carrier Street

City: Indiantown

County: Martin

Zip Code: 34956

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

June 2008

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: William J. Taylor, Vice President

Owner/Authorized Representative Mailing Address

Organization/Firm: Taylor & Modeen Realty Company, DBA Oak Hammock Crematory

Street Address: 250 Center Street

City: Jupiter

County: Palm Beach

Zip Code: 33458

Owner/Authorized Representative Telephone Numbers

Telephone: (561) 744-2030

Fax: (561) 744-0175

Cell phone (optional):

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title:

Facility Contact Mailing Address

Organization/Firm:

Street Address:

City:

County:

Zip Code:

Facility Contact Telephone Numbers

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

William J. Taylor

Date

11-30-07

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.

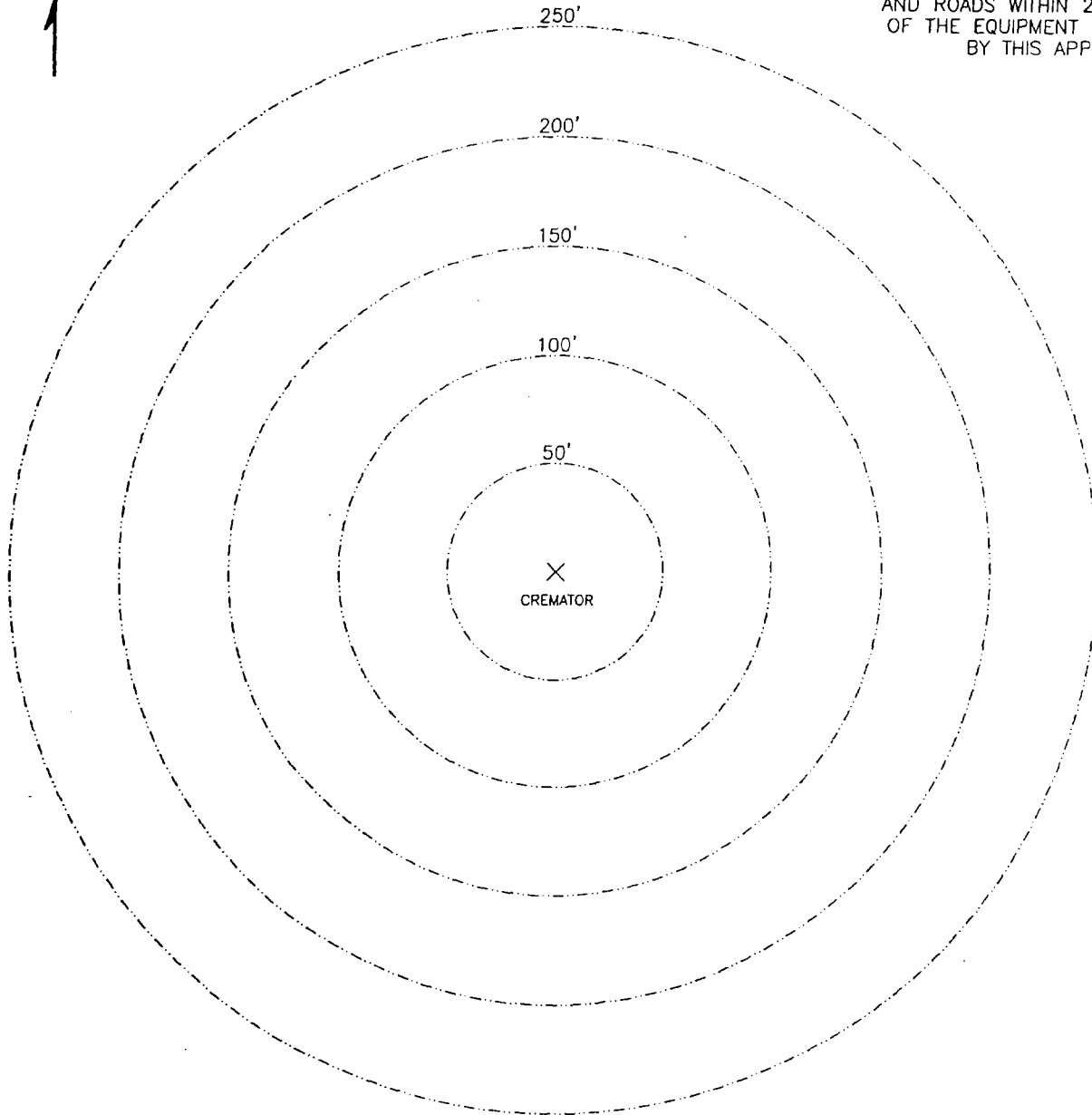
See attached Process flow diagram

PLOT PLAN

NORTH



SHOW ALL SURROUNDING BUILDINGS
AND ROADS WITHIN 250 FEET
OF THE EQUIPMENT COVERED
BY THIS APPLICATION.



INSTRUCTIONS

1. INDICATE LOCATION AND TYPE OF BUILDING BY THE USE OF SMALL NUMBERED CIRCLES WITH THE DESCRIPTION BELOW.
2. SHOW ROADS AS LINES REPRESENTING THE ROAD EDGES. INDICATE STREET NAMES AND HIGHWAY NUMBERS.
3. SHOW WOODED OR CLEARED AREA BY APPROXIMATE BOUNDARY LINES AND THE WORDS "WOODS," "CLEARED," "CORNFIELD," ETC.

STRUCTURE DESCRIPTION

- (1) See attached Site Map &
- (2) Aerial Quadrant View indicating
- (3) Streets & Wooded Areas
- (4)
- (5)
- (6)
- (7)
- (8)
- (9)
- (10)

Exhibit A

Taylor Crematorium Legal Description

RECEIVED

OCT 05 2007

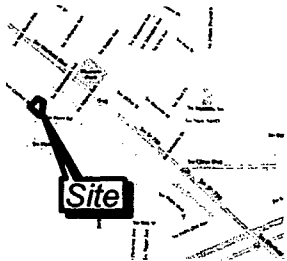
GROWTH MANAGEMENT
DEPARTMENT

LOTS 11 AND 12, BLOCK 3 OF THE UNRECORDED PLAT OF
INDIANTOWN INDUSTRIAL PARK, LOCATED IN SECTION 6,
TOWNSHIP 40 SOUTH, RANGE 39 EAST, MARTIN COUNTY,
FLORIDA, UNRECORDED PLAT PREPARED BY RADER AND
ASSOCIATES, MIAMI, FLORIDA, DATED SEPTEMBER 1959 AND
RECORDED IN OFFICIAL RECORDS BOOK 332, PAGE 2234,
PUBLIC RECORDS OF MARTIN COUNTY, FLORIDA.

PARCEL ID#: 06-40-39-001-003-00110-0-000

Exhibit B

Location Map



Site Data

Total Site Area	(56,367 s.f.) 1.29 Ac.
Existing Land Use	Industrial
Existing Zoning	U
Proposed Use	Office/Warehouse
Maximum Height	30'
Proposed Height	16'-0"
Proposed Number of Stories	1
Maximum Building Coverage	
Maximum	50%
Proposed	8.5%

Total Proposed Building Footprint Coverage	4,800 s.f.
Total Proposed Building Size	4,800 s.f.
Min. Open Space Required	20%
Open Space Provided	61+/-%
Building Setbacks (Minimum)	
Front	15'
Side	10'
Rear	10'
Corner	15'

Parking Calculation

Crematorium	Required: 1 space per 300 SF	8 Spaces
Office	Required: 1 space per 300 SF	4 Spaces (for max. 1,200 SF) *
Warehouse	Required: 1 space per 1,000 SF	2 Spaces (for max. 1,800 SF) *
	1,800 SF / 1,000 SF (or 1.2 employees) *	
Total Parking Required		14 Spaces
Total Parking Provided (including 1 Handicapped Space Required and Provided)		14 Spaces
* Parking Provided allows for up to 1,200 SF of office or up to 8 employees for warehouse use		

Legal Description

LOTS 11 AND 12, BLOCK 3 OF THE UNRECORDED PLAT OF INDIANTOWN INDUSTRIAL PARK, LOCATED IN SECTION 6, TOWNSHIP 40 SOUTH, RANGE 39 EAST, MARTIN COUNTY, FLORIDA, UNRECORDED PLAT PREPARED BY RADER AND ASSOCIATES, MIAMI, FLORIDA, DATED SEPTEMBER 1969 AND RECORDED IN OFFICIAL RECORDS BOOK 332, PAGE 2234, PUBLIC RECORDS OF MARTIN COUNTY, FLORIDA.

PARCEL ID#: 06-40-39-001-003-00110-0-000

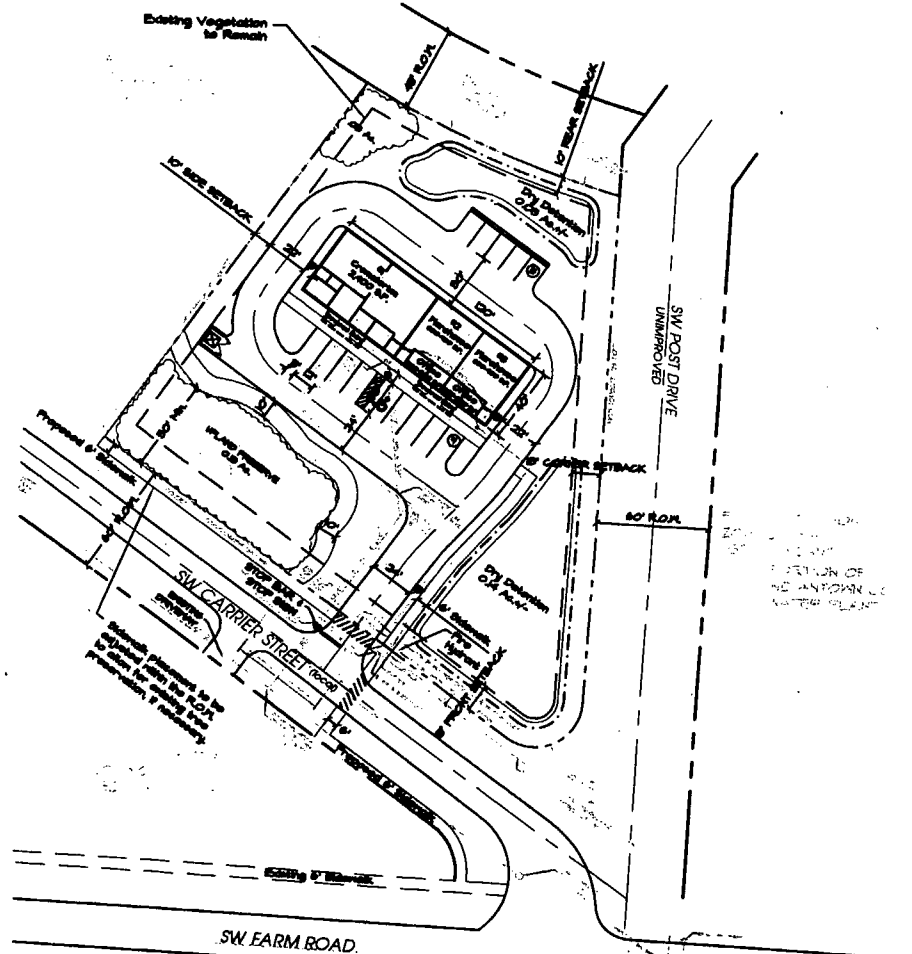
Proposed Area Calculation

Impervious Area	SF/Acres	%
Building Area	4,800/0.11	8.5
Concrete Walls	1,621/0.04	3.1
Paved Area	16,343/0.37	28.7
Sub-Total	22,764/0.52	40.3

Pervious Area	SF/Acres	%
Detentions	8,535/0.19	14.7
Upland Preserve	7,869/0.18	14.0
Other Open Space	17,399/0.40	31.0
Sub-Total	33,803/0.77	59.7
Total	56,367/1.29	100

Notes

1. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
2. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
3. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
4. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
5. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
6. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
7. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
8. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
9. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
10. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
11. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
12. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
13. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
14. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.
15. All existing vegetation to be removed except for the retention of a minimum of 10% of the existing vegetation.



Final Site Plan

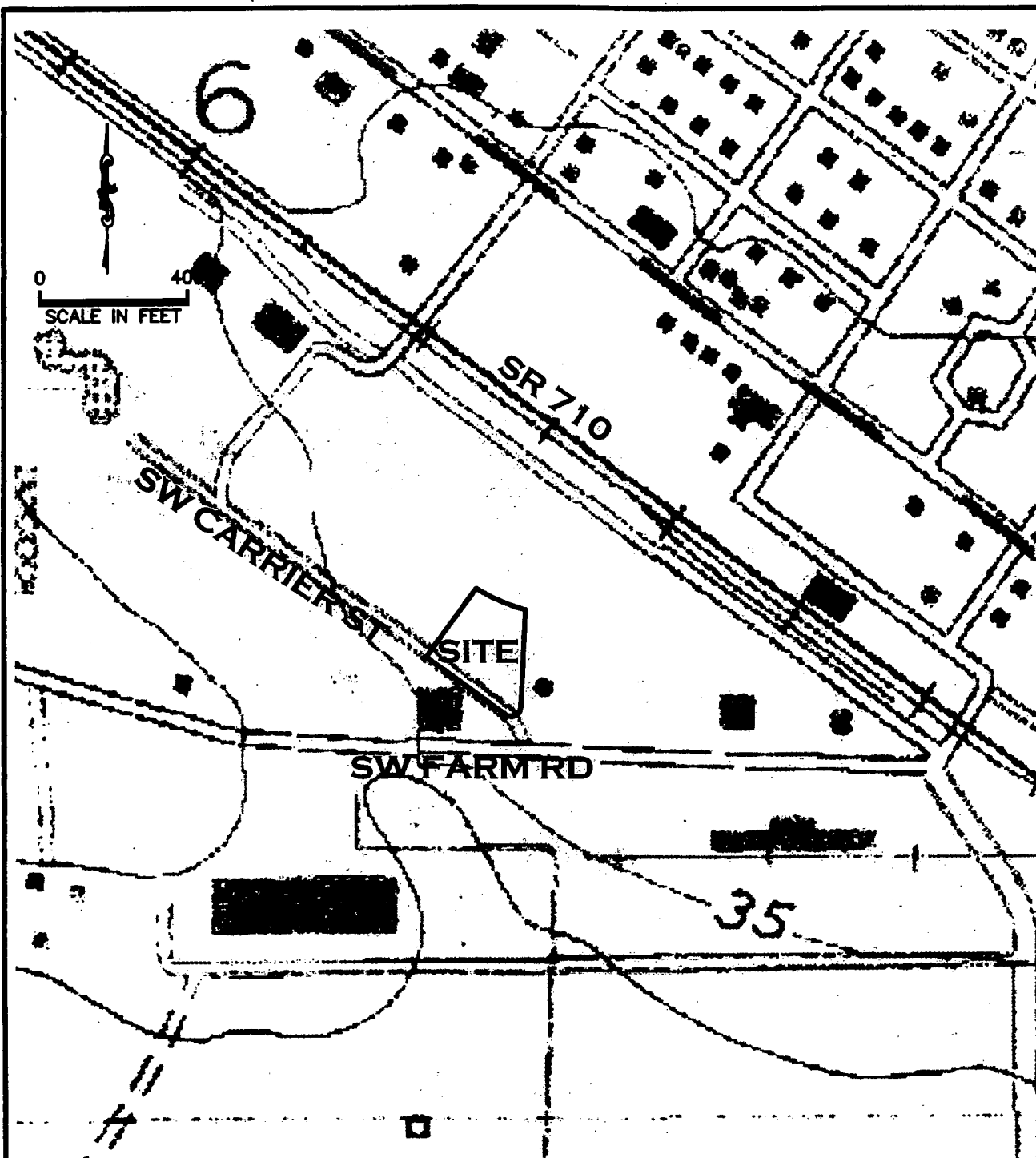
Scale 1"=30'



2400 SE Federal Highway
Suite 310
Stuart, Florida 34994
772.551.5228
772.551.8780
www.hgdesign.com

Taylor Crematorium
Martin County
Florida
Final Site Plan

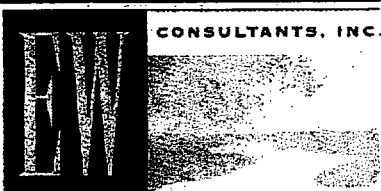
Job No.	1001
Drawn By	1001
Checked By	1001
Approved By	1001
Submitted Date	10-10-07
Revision Date	
Sheet Number	1 of 1



USGS QUAD MAP "INDIANTOWN", SECTIONS 6, TOWNSHIP 40 SOUTH, RANGE 39 EAST, MARTIN COUNTY, FLORIDA, LAT. 27°01'11", LONG. 80°28'16"

LOCATION MAP

INDIANTOWN CREMATORIUM



CONSULTANTS, INC.

EW CONSULTANTS, INC.

2081 SE OCEAN BOULEVARD, SUITE 2B

STUART, FLORIDA 34996

772-287-8771 FAX 772-287-2988

WWW.EWCONSULTANTS.COM

DEC 05

FIGURE

1

TOWN CREMATORIUM BASE.dwg AERIAL



MARTIN COUNTY AERIAL DATED JULY 13, 2005

AERIAL MAP

INDIANTOWN CREMATORIUM



CONSULTANTS, INC. EW CONSULTANTS, INC.
2081 SE. OCEAN BOULEVARD, SUITE 2B
STUART, FLORIDA 34996
772-287-8771 FAX 772-287-2988
WWW.EWCONSULTANTS.COM

DEC 05
FIGURE
2



MARTIN COUNTY AERIAL DATED
SPRING 2005

LEGEND

427/428 - CABBAGE PALM/ LAURAL OAK (0.2 AC)
437 - AUSTRALIAN PINE (0.1 AC)
740 - DISTURBED LANDS (1.0 AC)

INDIANTOWN CREMATORIUM FLUCCS MAP

CONSULTANTS, INC.

EW CONSULTANTS, INC.

2081 SE OCEAN BOULEVARD, SUITE 2B
STUART, FLORIDA 34996

772-287-8771 FAX 772-287-2988

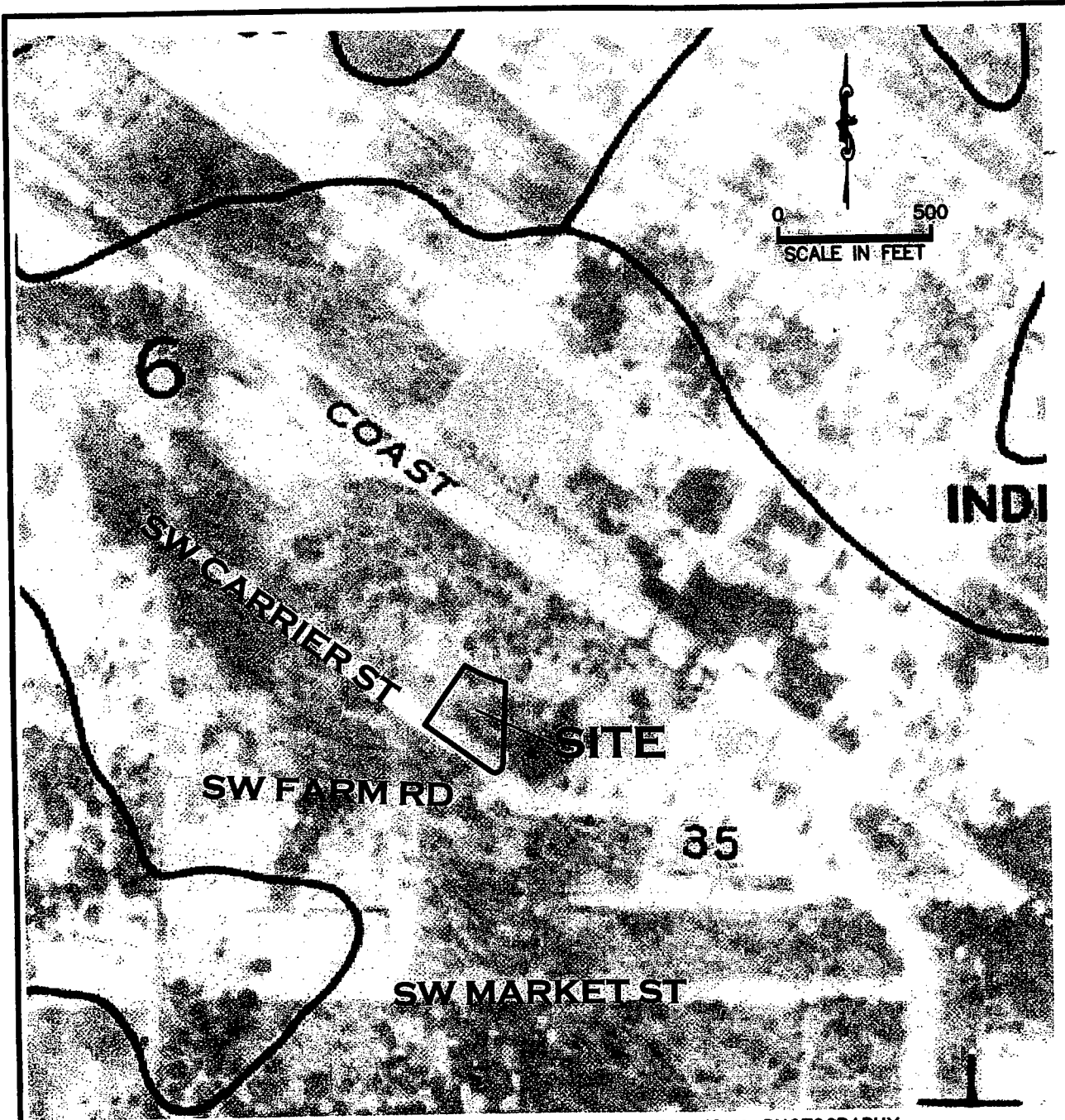
WWW.EWCONSULTANTS.COM

SEP 06

FIGURE

3

INDIANTOWN CREMATORIUM.dwg FLUCCS



USDA SOIL SURVEY OF MARTIN COUNTY AREA, FLORIDA USING 1972 AERIAL PHOTOGRAPHY

LEGEND
35- SALERNO SAND
SOILS MAP

INDIANTOWN CERMATORIUM



CONSULTANTS, INC.

EW CONSULTANTS, INC.

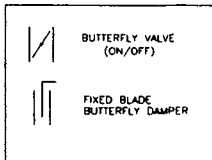
2081 SE OCEAN BOULEVARD, SUITE 2B
STUART, FLORIDA 34996
772-287-8771 FAX 772-287-2988
WWW.EWCONSULTANTS.COM

DEC 05

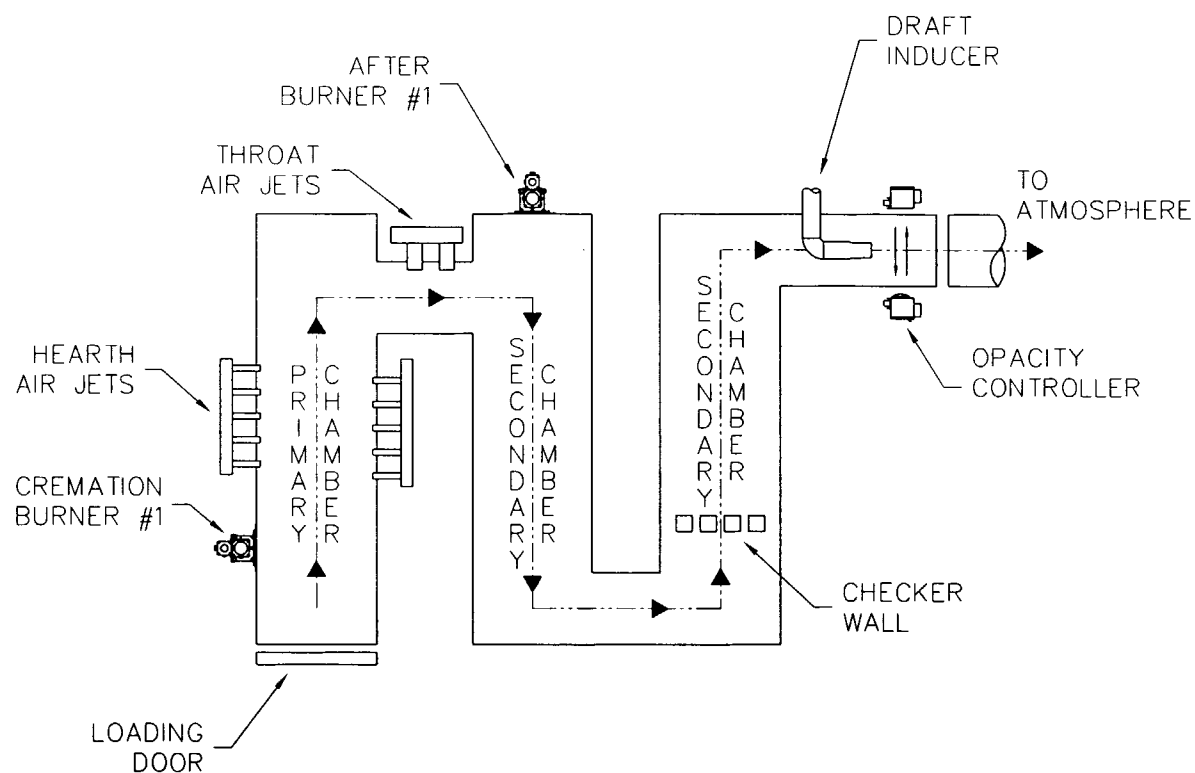
FIGURE

4

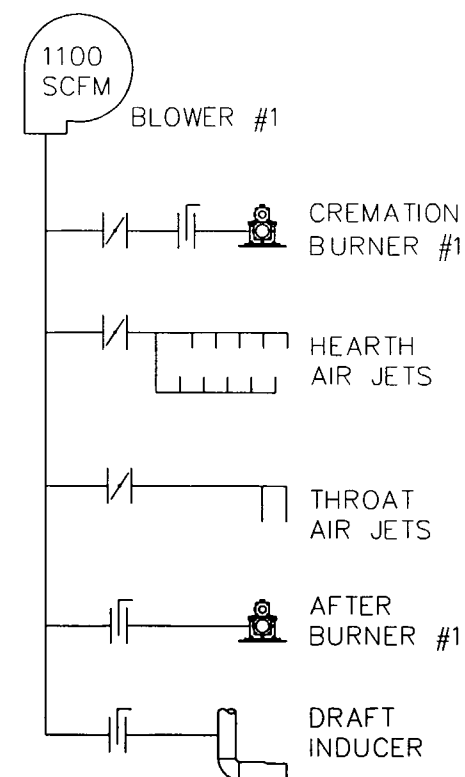
LEGEND OF SYMBOLS



FLOW DIAGRAM



AIR SCHEMATIC

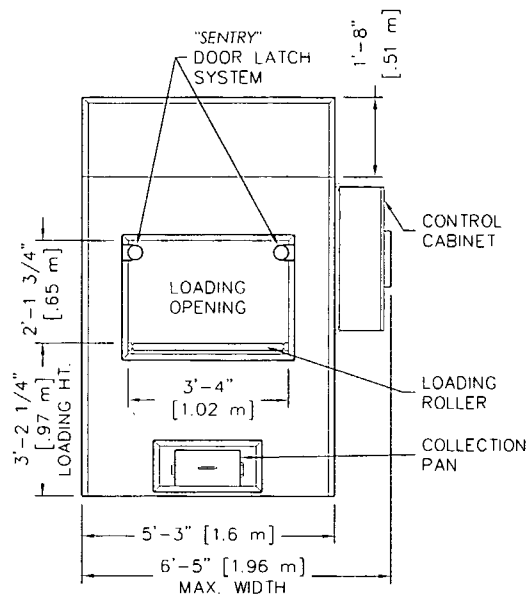


2045 Sprint Boulevard
Apopka, Florida 32703
USA

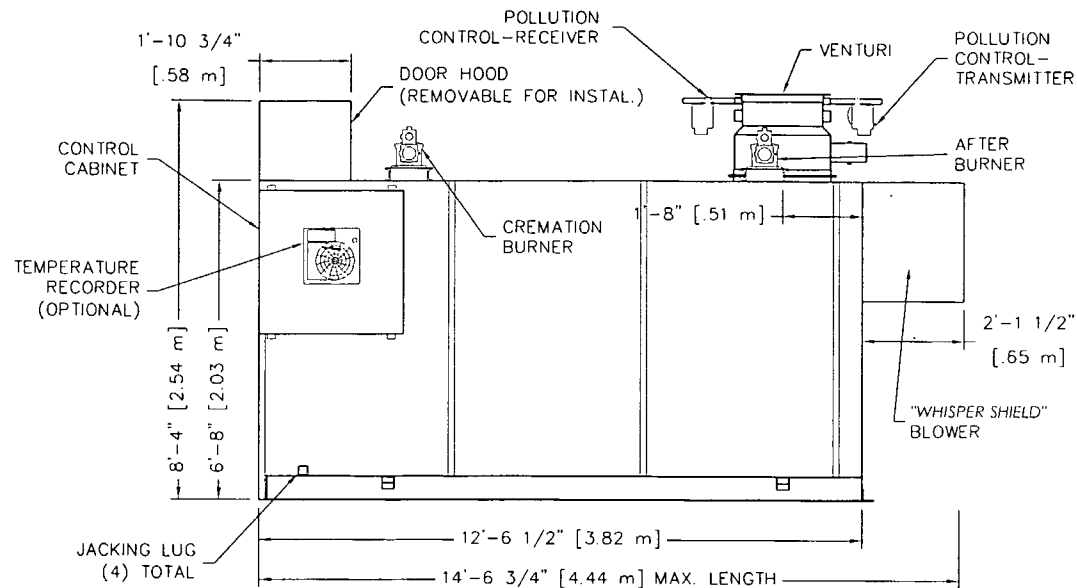
POWER PAK II

FLOW DIAGRAM
& AIR SCHEMATIC

DATE: 08-05-05	SCALE: 1/4"=1'
DRAWN: JG	PLOT SCALE: 1:48
APRVD:	SHEET: 1 OF: 1
DWG FILE: PPIFlowDiaAirSchem	
DWG #:	0000523



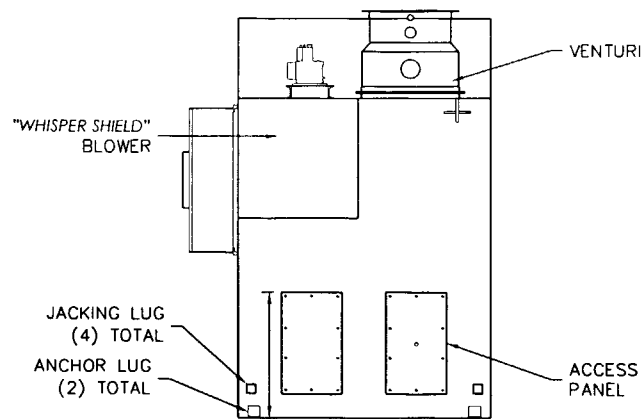
FRONT
ELEVATION



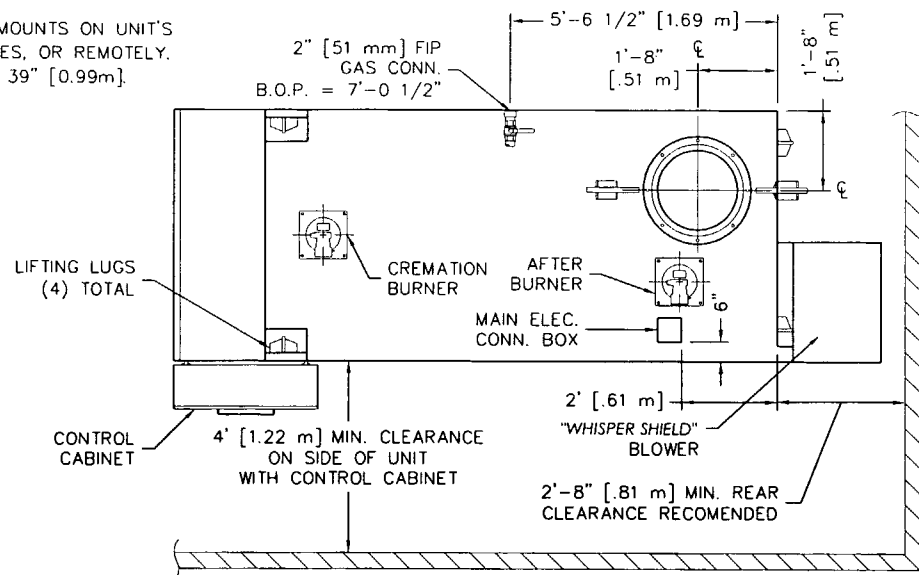
RIGHT SIDE
ELEVATION

NOTES:

- 1) CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY.
- 2) CHAMBER WIDTH IS 39" [0.99m].



REAR
ELEVATION



PLAN
VIEW



2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK II

PLAN & ELEVATIONS INCL: CLEARANCES,
REQUIREMENTS & RECOMENDATIONS

DATE:	10-26-06	SCALE:	1/4"=1'
DRAWN:	JG	PLOT SCALE:	1:48
APRVD:		SHEET:	1 OF 2
DWG FILE:	PPII-MarketingPlanElevS1R4		
DWG #:	0000140		

CREMATOR CLEARANCES

RECOMMENDED

MINIMUM

TOP: ②	2 FEET	[610 mm]	6 INCHES	[152 mm]
CABINET SIDE:	4 FEET	[1.22 m]	4 FEET	[1.22 m]
OTHER SIDE:	2 FEET	[610 mm]	6 INCHES	[152 mm]
FRONT:	9 FEET	[2.74 m]	8 FEET	[2.44 m]
REAR:	3 FEET	[0.91 m]	32 INCHES	[812 mm]
STACK:	6 INCHES	[152 mm]	6 INCHES	[152 mm]

- FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- FROM HIGHEST POINT ON UNIT.
- CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).
- REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW, SHEET 1).

CREMATOR REQUIREMENTS

FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 7" [178 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

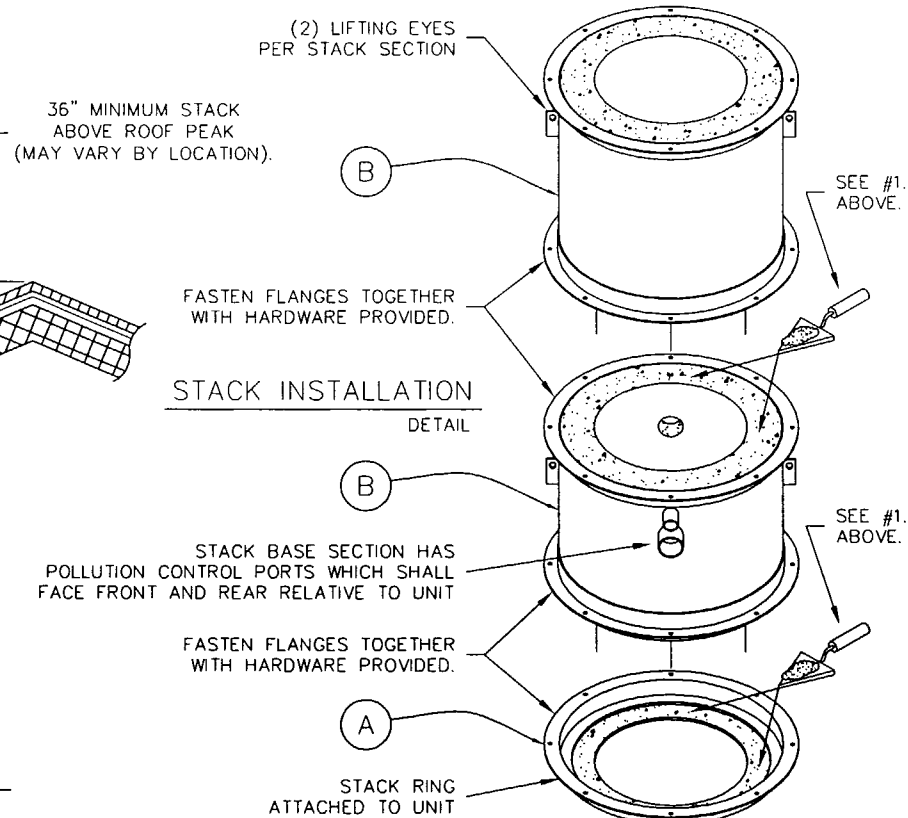
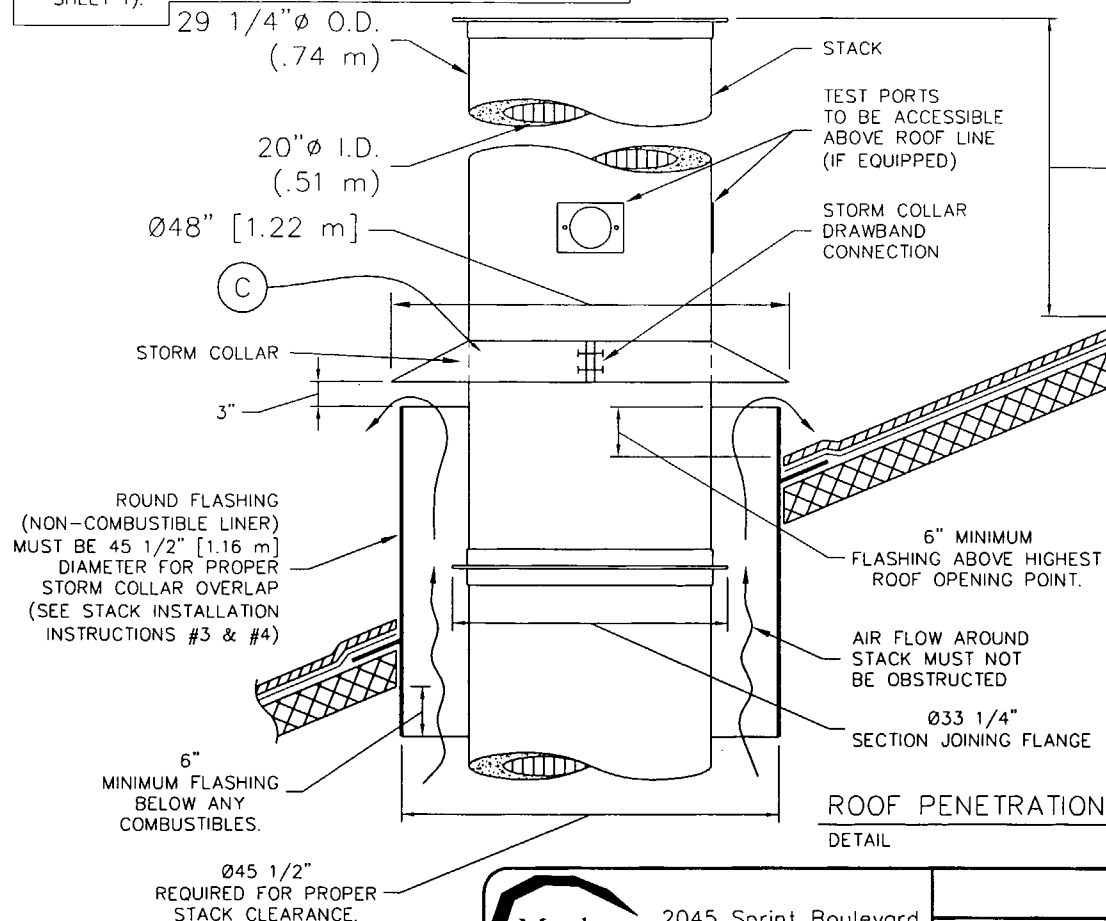
CAPACITY: RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJOULES/HR] DEPENDING UPON AMOUNT OF BURNERS.

ELECTRICAL: 230 VOLT, 3Ø, (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT, 1Ø, (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

AIR: LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

STACK INSTALLATION INSTRUCTIONS

- APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
- INSTALL STORM COLLAR ON STACK, 3" [76 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).
- STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
- RAIN CAP NOT REQUIRED.



2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK II

STACK DETAILS, CLEARANCES &
INSTALLATION INSTRUCTIONS.
REFRACTORY STACK DETAIL

DATE:	08-18-05	SCALE:	1/2"=1'
DRAWN:	JG	PLOT SCALE:	1:24
APRVD:		SHEET:	2 OF: 2
DWG FILE:	PPII-MarketingStackRefS2R2		
DWG #:	0000140		

EMISSIONS TESTING REPORT

PERMIT NO. 0950126-005-AG

**IE43-PPII, POWER-PAK II
CREMATOR**

PREPARED FOR:

BALDWIN FAIRCHILD

ORLANDO, FLORIDA

MAY 5, 2005

PREPARED BY:

ATC



AIR TESTING & CONSULTING, INC.

**333 FALKENBURG ROAD, SUITE B-214
TAMPA, FLORIDA 33619**

CREMATOR MASS BALANCE

Matthews International Cremation Division

Industrial Equipment & Engineering Co.

Model IE43-PPII (Power-Pak II) Crematory Incinerator, Fired on Natural Gas

8-Oct-07

THESE CALCULATIONS HAVE BEEN PREPARED TO EVALUATE THE COMBUSTION
PROCESS IN THE POWER-PAK II CREMATORY INCINERATOR

Firing Rate 100 lb/hr = 100 % of 100 lbs/hr Rated Capacity)

Excess Air 66 %

THE INCINERATOR INSTITUTE OF AMERICA HAS PUBLISHED THE FOLLOWING SPECIFICATIONS
COVERING AVERAGE WASTES.

WASTE TYPE	TYPE 0	TYPE 4
BTU PER POUND	8500	1000
POUND ASH PER POUND WASTE	0.05	0.05
POUND MOISTURE PER POUND WASTE	0.1	0.85
POUND COMBUSTIBLES PER POUND WASTE	0.85	0.1
HOURLY CONSUMPTION OF WASTE (LBS)	11.0	89.0

SPECIFICATIONS		
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.45	0.7 MMBTU /HR UL RATING
PRIMARY CHAMBER VOLUME (CU.FT)	64	
HEARTH AREA (SQ.FT)	26.4	
SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.4	
ADDITIONAL COMBUSTION AIR SUPPLIED		
THROAT AIR (SCFM)	233	
HEARTH AIR (SCFM)	133	
SEC. CHAMBER OPERATING TEMPERATURE (°F)	1800	
SECONDARY CHAMBER VOLUME (CU. FT)	33	
SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	2.7	
FLAME PORT AREA (SQ. FT)	2.8	
MIXING BAFFLES AREA (SQ. FT)	1.4	

1. TOTAL FLUE PRODUCTS

A. PRIMARY BURNER NATURAL GAS USAGE

$$450000 \text{ BTU/HR} \times \frac{0.045 \text{ LBS/CF}}{1000 \text{ BTU/CF}} = 20 \text{ LBS/HR}$$

B. COMBUSTION AIR FOR PRIMARY BURNER

(66 % Excess Air)

$$\frac{450000 \text{ BTU/HR}}{100 \text{ BTU/SCF AIR}} \times 1.66 \times 0.075 \text{ LB/CF AIR} = 560 \text{ LBS/HR}$$

C. SECONDARY BURNER NATURAL GAS USAGE

$$400000 \text{ BTU/HR} \times \frac{0.045 \text{ LBS/CF}}{1000 \text{ BTU/CF}} = 18 \text{ LBS/HOUR}$$

D. COMBUSTION AIR FOR SECONDARY BURNER

(66 % Excess Air)

$$\frac{400000 \text{ BTU/HR}}{100 \text{ BTU/SCF AIR}} \times 1.66 \times 0.075 \text{ LB/CF AIR} = 498 \text{ LBS/HOUR}$$

E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)

$$0.95 \text{ LBS/LB BURNED} \quad \times \quad 11 \text{ LB/HR BURN RATE} \quad = \quad 10 \text{ LBS/HOUR}$$

F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)

$$0.95 \text{ LBS/LB WASTE} \quad \times \quad 89 \text{ LB/HR BURN RATE} \quad = \quad 85 \text{ LBS/HOUR}$$

G. ADDITIONAL COMBUSTION AIR (HEARTH & THROAT AIR)

$$\begin{aligned} 13980 \text{ SCF/HR} & \quad \times \quad 0.075 \text{ LB/CF AIR} & = & 1049 \text{ LBS/HOUR} \\ 7980 \text{ SCF/HR} & \quad \times \quad 0.075 \text{ LB/CF AIR} & = & 599 \text{ LBS/HR} \\ & & = & 824 \text{ LBS/HR/CREMATION} \end{aligned}$$

H. TOTAL FLUE PRODUCTS

$$= \underline{\underline{2015 \text{ LBS/HOUR}}}$$

2. VELOCITY AND TIME CALCULATIONS

A. SCFM CALCULATION (PRODUCTS ASSUMED TO HAVE DENSITY CLOSE TO AIR)

$$2015 \text{ LBS/HR} \quad \times \quad \frac{13.35 \text{ STD. CU. FT/LB}}{60 \text{ MIN/HR}} \quad = \quad 448 \text{ SCFM}$$

B. TOTAL PRODUCTS ACFM @ 1800 °F

$$\frac{2260 \text{ °RANKINE}}{530 \text{ °RANKINE}} \quad \times \quad 448.3 \text{ CFM} \quad = \quad 1912 \text{ ACFM}$$

C. RETENTION TIME

$$\frac{33 \text{ CU. FT}}{1912 \text{ ACFM}} \quad \times \quad \frac{60 \text{ SECONDS}}{1 \text{ MINUTE}} \quad = \quad 1.0 \text{ SECONDS}$$

D. VELOCITY IN FLAME PORT

$$\frac{1912 \text{ ACFM}}{2.8 \text{ SQ. FT}} \quad \times \quad \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} \quad = \quad 11.4 \text{ FEET/SECOND}$$

E. VELOCITY AT MIXING BAFFLES

$$\frac{1912 \text{ ACFM}}{1.4 \text{ SQ. FT}} \quad \times \quad \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} \quad = \quad 22.8 \text{ FEET/SECOND}$$

F. VELOCITY IN SECONDARY CHAMBER

$$\frac{1912 \text{ ACFM}}{2.7 \text{ SQ. FT}} \quad \times \quad \frac{1 \text{ MINUTE}}{60 \text{ SECONDS}} \quad = \quad 11.8 \text{ FEET/SECOND}$$

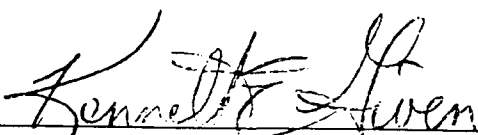
ATC



AIR TESTING & CONSULTING, INC.

333 FALKENBURG ROAD, SUITE B-214
TAMPA, FLORIDA 33619

To the best of my knowledge, all field and analytical procedures comply with Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.


Kenneth E. Given, P.E.
5-10-05

Date

1.0 INTRODUCTION

On May 5, 2005, Air Testing & Consulting, Inc., conducted the following tests on Baldwin Fairchild's Human Crematory Incinerator located at 301 N. Ivanhoe Blvd. in Orlando, Florida:

- (1) *Particulate Emission (EPA Methods 1 – 5)*
- (2) *Carbon Monoxide (EPA Method 10)*
- (3) *Visible Emissions (EPA Method 9)*
- (4) *Oxygen (EPA Method 3A)*

These tests were performed at the request of Mathews Cremation Division to prove compliance on the Power Pak II crematory incinerator. Orange County, Environmental Protection Division, representatives, Gregory Bryant, Ilka Bundy and John Casper audited the test.

2.0 SUMMARY OF RESULTS

The results of the emission testing are presented in the Test Summary. The Particulate emissions averaged 0.0549 grains per dry standard cubic foot (gr/dscf) and CO emissions averaged 2.2 parts per million (ppmv), each corrected to 7% O₂. Opacity, highest six-minute average, on the stack, was 0%.

3.0 SUMMARY OF TEST DATA

PLANT : BALDWIN

UNIT : POWER-PACK II

RUN NUMBERS : 1, 2, 3

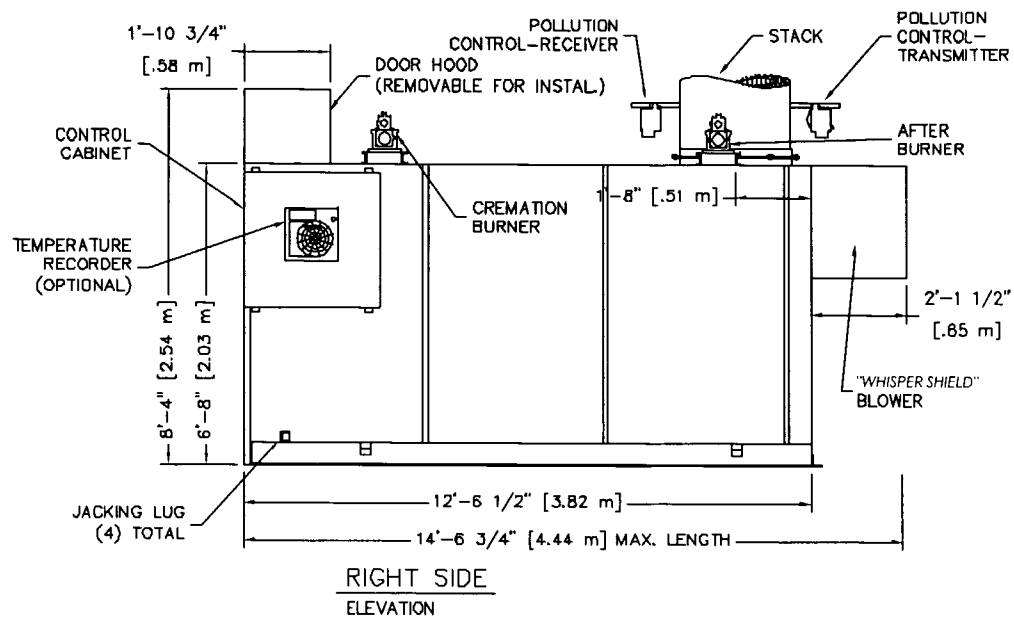
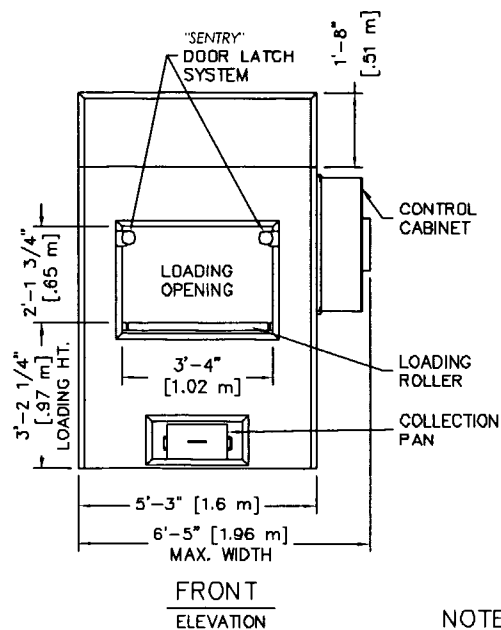
TEST DATE : 5/5/05	#1	#2	#3	AVERAGES
DATE	5/5/05	5/5/05	5/5/05	
START TIME	10:32	13:05	15:27	
END TIME	11:50	14:09	16:29	
STACK DIAMETER (INCHES)	19.5	19.5	19.5	
NOZZLE DIAMETER (INCHES)	0.550	0.550	0.550	
TEST TIME (MINUTES)	60	60	60	
NUMBER OF TEST POINTS PER RUN	24	24	24	
STACK GAS TEMPERATURE (°F)	850.0	991.8	1128	989.9
STACK GAS MOISTURE (%)	12.51	9.76	6.56	
STACK GAS MOLECULAR WEIGHT	28.50	28.83	29.21	
STACK GAS VOLUME SAMPLED (CUBIC FEET)	34.375	36.840	40.110	37.108
VOLUME SAMPLED (SCF @ 68°F)	34.585	37.020	40.270	37.292
STACK GAS VELOCITY (FEET PER SECOND)	18.14	17.30	19.75	18.39
STACK GAS FLOW RATE (ACFM)	2257.0	2152.2	2457.7	2288.9
STACK GAS FLOW RATE (DSCFM @ 68°F)	801.7	711.5	769.2	760.8
OXYGEN, %	16.0	14.0	14.5	
PARTICULATE CONC (GR/DSCF) @7% O ₂	0.0359	0.1122	0.0165	0.0549
PARTICULATE MASS RATE (LBS/HOUR)	0.0871	0.3396	0.0500	0.1589
CO CONC @ 7% O ₂ , ppmv	1.42	2.01	3.26	2.23
CO MASS RATE (LBS/HOUR)	0.00175	0.00310	0.00503	0.0033
ISOKINETIC SAMPLING RATE, %I	90.4	109.0	109.7	

FIELD DATA AND SAMPLES UNDER THE CONTROL OF:

TIM CAPELLE

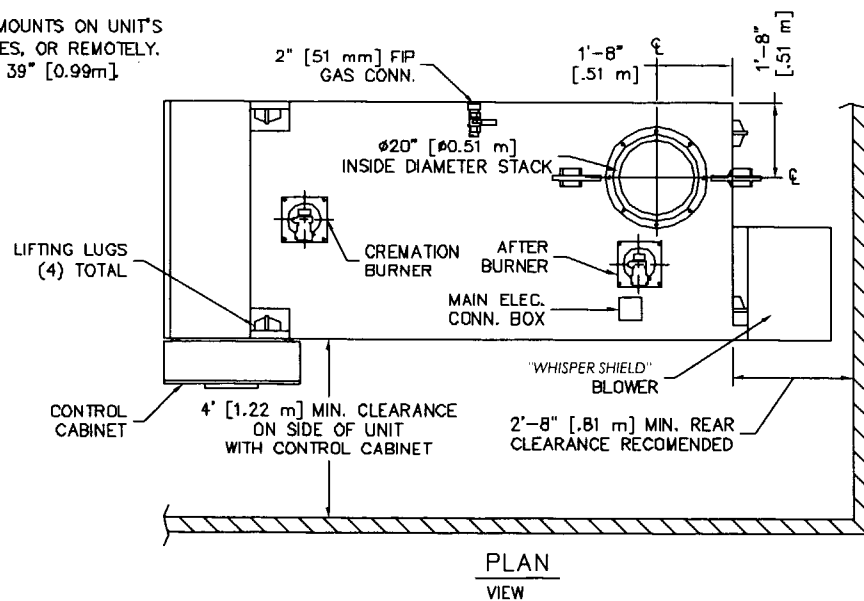
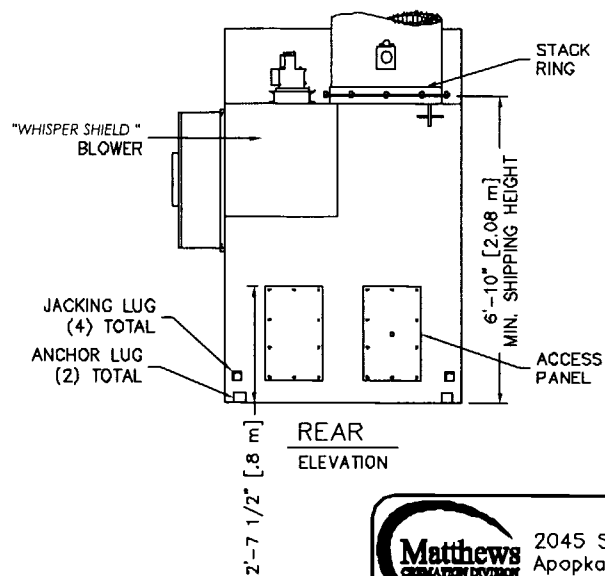
LABORATORY ANALYSIS UNDER THE CONTROL OF:

ATC



NOTES:

- 1) CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY.
- 2) CHAMBER WIDTH IS 39" [0.99m]



2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK II

PLAN & ELEVATIONS INCL: CLEARANCES,
REQUIREMENTS & RECOMENDATIONS

DATE:	10-26-06	SCALE:	1/4"=1'
DRAWN:	JG	PLOT SCALE:	1:48
APRVD:		SHEET:	1 OF: 2
DWG FILE:	PPII-MarketingPlanElevS1R4		
DWG #:	0000140		

CREMATOR CLEARANCES

RECOMMENDED

MINIMUM

TOP: ②	2 FEET [610 mm]	6 INCHES [152 mm]
CABINET SIDE:	4 FEET [1.22 m]	4 FEET [1.22 m]
OTHER SIDE:	2 FEET [610 mm]	6 INCHES [152 mm]
FRONT:	9 FEET [2.74 m]	8 FEET [2.44 m]
REAR:	3 FEET [0.91 m]	32 INCHES [812 mm]
STACK:	6 INCHES [152 mm]	6 INCHES [152 mm]

- FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- FROM HIGHEST POINT ON UNIT.
- CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).
- REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW, SHEET 1).

CREMATOR REQUIREMENTS

FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 7" [178 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

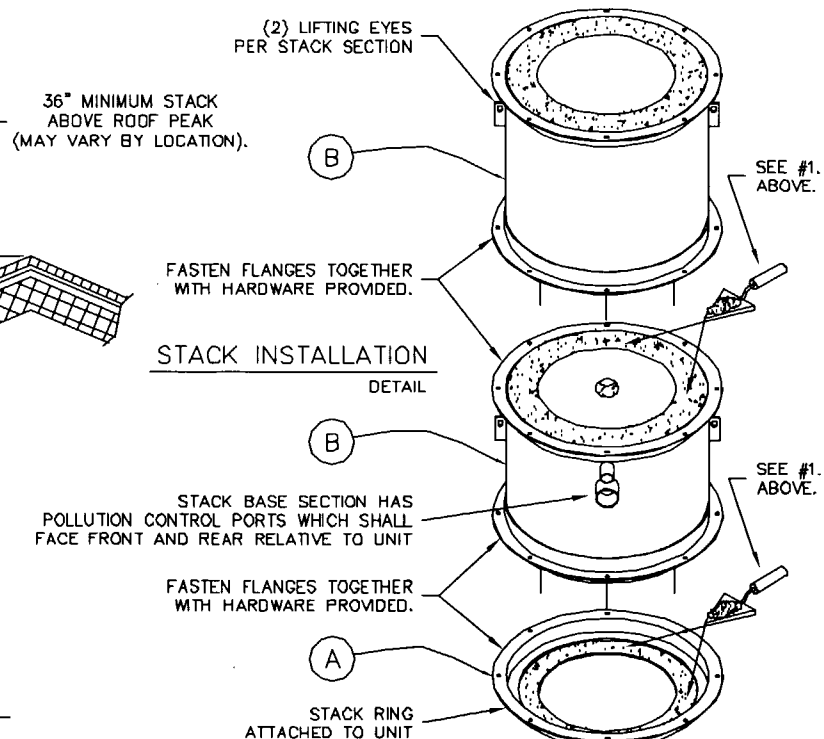
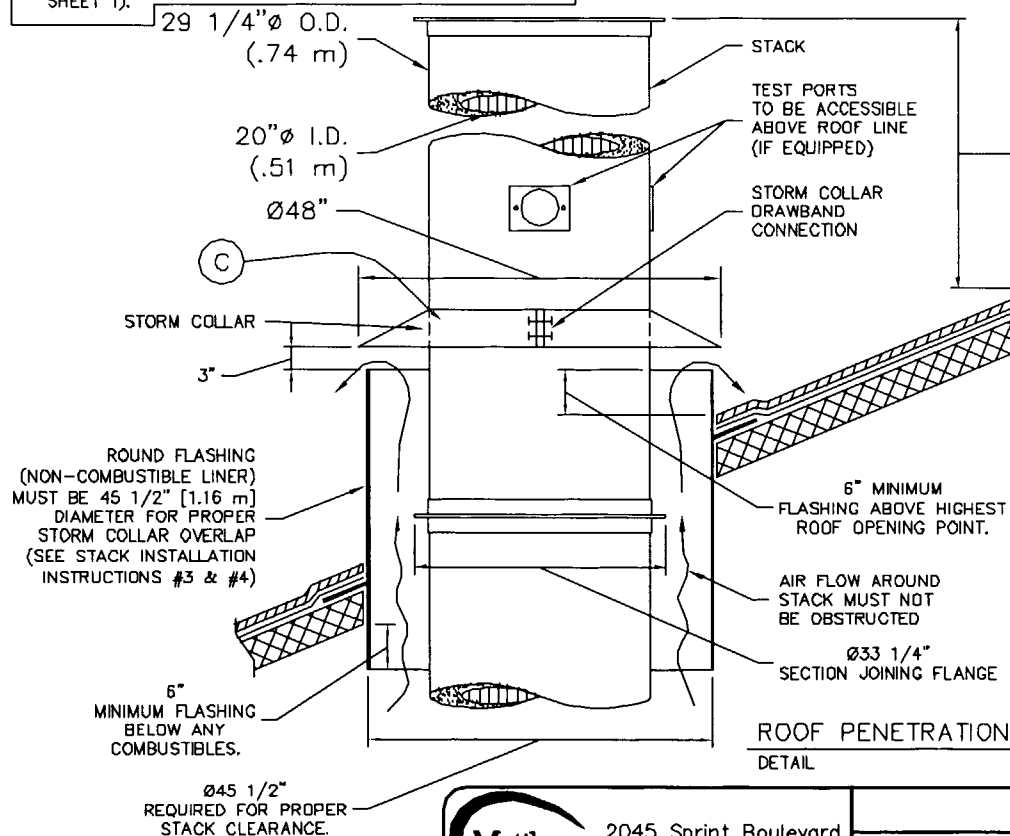
CAPACITY: RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJOULES/HR] DEPENDING UPON AMOUNT OF BURNERS.

ELECTRICAL: 230 VOLT, 3Ø, (40A BREAKER) AND 115v (10A BREAKER). QB 230 VOLT, 1Ø, (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

AIR: LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

STACK INSTALLATION INSTRUCTIONS

- APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
- INSTALL STORM COLLAR ON STACK, 3" [76 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).
- STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
- RAIN CAP NOT REQUIRED.



2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK II

STACK DETAILS, CLEARANCES &
INSTALLATION INSTRUCTIONS.
REFRACTORY STACK DETAIL

DATE:	08-18-05	SCALE:	1/2"=1'
DRAWN:	JG	PLOT SCALE:	1:24
APRVD:		SHEET:	2 OF: 2
DWG FILE:	PPII-MarketingStackRefS2R2		
DWG #:	0000140		

TAYLOR & MODEEN
Funeral Home
Family Owned & Operated
Since 1909

RECEIVED

November 29, 2007

DEC 03 2007

DEPT of ENV PROTECTION
WEST PALM BEACH


Southeast District Air Program
400 North Congress Ave., Suite 200
West Palm Beach, FL 33401

Dear Sirs/Madams:

Enclosed please find application for air pollution permit and the initial application payment fee in the amount of \$100.00 (One Hundred Dollars) to cover the air pollution permit. Any additional remittance required send to Taylor & Modeen Realty Company, DBA, Oak Hammock Crematory 250 Center Street, Jupiter, FL 33458 or any question please contact, William J. Taylor, Vice President at (561) 744-2030.

Thank you for your prompt attention to this matter.

Respectfully,



William J. Taylor, Vice President
Taylor & Modeen Realty, DBA Oak Hammock Crematory
250 Center Street
Jupiter, FL 33458

WJT/kdk

FLORIDA DEPARTMENT OF
2007 DEC -5 PM 1:30
TAYLOR & MODEEN
REVENUE

Enclosure



Cremation Division

RECEIVED

DEC 03 2007

DEPT of ENV PROTECTION
WEST PALM BEACH

10/08/07

Taylor & Modeen Funeral Home
250 Center Street
Jupiter, FL 33458

Dear Mr. King,

Enclosed are your permit application forms and additional information for the permit to install your new Power-Pak II cremator. The highlighted areas are those for which information is needed by you. Also, you will need to attach a site plan of your property. Please note the approximate location of the cremator stack on the plan.

Once completed, please make two copies one of which you will keep for your records. The other two must be sent to:

Southeast District Air Program

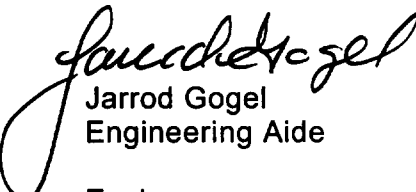
400 N. Congress Avenue, Suite 200
West Palm Beach, FL 33401

Include a check for \$100 for the application fee. Also include a brief cover letter indicating that you are planning on adding a crematory at your facility.

In addition to obtaining the air pollution permit, you should be aware that approvals might also be required from other authorities. Permit(s) from your local building, gas, and electrical authorities may be necessary. Your contractor should obtain these.

When you receive the final construction permit please send me a copy.

Sincerely,


Jarrod Gogel
Engineering Aide

Enclosures



Florida Department of Environmental Protection
Cash Receiving Application (CRA)
Cashlisting by Deposit #: 281324 thru 281324
Printed: 12/6/2007 4:28:17 PM - Page 12

Cashlisting: 65495 Cashlist Area: 3755 Description: DIV OF AIR RESOURCES MGMT.
Deposit No: 281324 Date Deposited: 12/06/2007 Contact: PATTY ADAMS

Object	Transmittal	Dep DDN	Receipt Number	Pre- Numbered Receipt	Name	Check Number	Payment Amount	Reference Account	Payment Number	Remittance Number	Fund
✓ 002272	45981		608774		TAYLOR & MODEEN REALTY	1009	\$100.00	12/18/07 - HC 0850150-001	851942	757806	PFTF
Object Code 002272 Subtotal:							\$100.00				
Cashlisting 65495 Total:							\$100.00				