

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING DEPARTMENT

Please Read Application And Notes, If Any, Attached

## PERMIT

Permit Number: 030113

This is to certify that Wright-ryan Real Estate Llc/ WRIGHT RYAN CONSTRUCTION  
has permission to Install paint mixing room and gray boot  
AT 276 Canco Rd 154 B047001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and work in progress must be reported before this building or part thereof is occupied or closed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

### OTHER REQUIRED APPROVALS

Fire Dept. [Signature]  
Health Dept. \_\_\_\_\_  
Appeal Board \_\_\_\_\_  
Other \_\_\_\_\_  
Department Name \_\_\_\_\_

[Signature] 2/19/03  
Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**City of Portland, Maine - Building or Use Permit Application**  
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-0113	Issue Date:	CBL: 154 B047001
-----------------------	-------------	---------------------

Location of Construction: 276 Canco Rd	Owner Name: Wright-ryan Real Estate Llc	Owner Address: 10 Danforth St	Phone: 773-3426
Business Name:	Contractor Name: WRIGHT RYAN CONSTRUCTIO	Contractor Address: 10 DANFORTH STREET Portland	Phone: 2077733625
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: I-M

Past Use: Millwork Shop	Proposed Use: Millwork Shop; replace spray booth and paint mixing room destroyed by fire.	Permit Fee: \$86.00	Cost of Work: \$9,000.00	CEO District: 2
Proposed Project Description: Install paint mixing room and spray booth		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: S-1 Type: 2B 2/19/03	
		Signature: <i>UAM</i>	Signature: <i>[Signature]</i>	

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	Signature: _____ Date: _____

Permit Taken By: gg	Date Applied For: 02/13/2003	<b>Zoning Approval</b>	
------------------------	---------------------------------	------------------------	--

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>2/12/03</i>	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
--	--	---	--

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

# All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>276 CANCO RD., PORTLAND, ME 04103</u>		
Total Square Footage of Proposed Structure <u>SPRAY BOOTH - 377 SQ. FT.</u> <u>PAINT MIX ROOM - 54 SQ. FT.</u>		Square Footage of <del>NEW</del> BUILDING: <u>6000 SQ.</u>
Tax Assessor's Chart, Block & Lot Chart#      Block#      Lot# <u>154-B-047</u>	Owner: <u>WRIGHT-RYAN CONSTRUCTION</u> <u>10 DANFORTH ST.</u> <u>Portland, ME 04101</u>	Telephone: <u>(207) 775-6965</u>
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: <u>(207) 775-6965</u> <u>WRIGHT-RYAN</u> <u>775-6965</u>	Cost Of Work: \$ <u>9000.00</u> Fee: \$ <u>86.00</u>
Current use: <u>MILLWORK SHOP</u>		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: <u>SPRAY BOOTH and Paint Mixing Room</u>		
Project description: <u>INSTALL SPRAY BOOTH AND PAINT MIXING ROOM.</u>		
Contractor's name, address & telephone: <u>Wright-Ryan Construction : (207) 773-3426</u> <u>10 DANFORTH ST. PORTLAND, ME 04101</u>		
Who should we contact when the permit is ready: <u>MARTIN SIMPSON</u>		
Mailing address: <u>276 CANCO RD., PORTLAND ME, 04103</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up.      PHONE: <u>(207) 775-6965</u>		

**IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.**

*I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.*

Signature of applicant: <u>Martin Simpson</u>	Date: <u>2/14/03</u>
---	----------------------

**This is NOT a permit, you may not commence ANY work until the permit is issued.  
If you are in a Historic District you may be subject to additional permitting and fees with the  
Planning Department on the 4<sup>th</sup> floor of City Hall**

---

# **NORRIS-WIENER, INC.**

---

## **BAY STATE SPRAY EQUIP.**

90 Chelmsford Road  
No. Billerica, MA 01862  
(978) 670-2501  
(800) 553-2501  
Fax (978) 670-5633  
[www.norriswiener.com](http://www.norriswiener.com)

Dear Sir/Madam,

I would like to introduce you to Norris-Wiener, Inc./Bay State Spray Equip. We are a leading distributor of **SPRAY FINISHING EQUIPMENT, INDUSTRIAL FLUID HANDLING EQUIPMENT and SPRAY BOOTH PRODUCTS.** Whether you need industrial spray guns (HVLP or conventional), pumps, pressure tanks, industrial or automotive spray booths, liquid or powder electrostatics, ovens, conveyors or a complete **TURN-KEY** finishing system. Norris-Wiener, Inc./ Bay State Spray Equip. has the expertise to help, our sales engineers can work directly with your personnel, architects, and subcontractors to make sure your selection is the right one.

Norris-Wiener, Inc./Bay State Spray Equip. has received many Outstanding Industrial Distributor Awards from ITW Finishing (DeVilbiss and Binks and Ransburg) for being one of their leading distributors in the United States. ITW Finishing and ITW Ransburg are the world leaders in Finishing Equipment, HVLP Guns and Liquid & Powder Electrostatic Equipment Norris-Wiener, Inc. / Bay State Spray Equip. has also been distinguished as a "Platinum Distributor" by Kremlin for our outstanding sales and support performance.

We have received many awards as a Kremlin Distributor of Distinction. Kremlin is a world leader in "Airmix" Technology and Finishing Systems which include, Plural Component Proportioning Pumps, Air Operated Pumps ranging from 0-5000 PSI, HVLP & Electrostatic Spray Guns. . We also represent Team Blowtherm (Industrial and Automotive Spray Booth Products-Booths, Prep Stations, Paint Mixing Rooms, etc.) the leader in the industry!

Norris-Wiener, Inc./Bay State Spray Equip. is committed to technological developments in finishing that have a positive environmental impact. All of our vendor's improvements are centered on enhancing finish quality and transfer efficiency...*because better efficiency not only results in cost savings, increased productivity and safety, but also is the key to meeting or exceeding stringent environmental codes.*

Norris-Wiener, Inc. / Bay State Spray Equip. has been serving their New England customers faithfully since 1952. To better service you, we have a full time parts and service department, offering a full spectrum of service for all of your equipment. Our prompt ship program is geared for same day shipment, to avoid costly delays.

The other premier equipment manufacturers that we represent are indicated on the enclosed line card. Please review the line card carefully and remember, whether its one item or a TURN-KEY System, **Norris-Wiener, Inc. / Bay State Spray Equip. can help!**

Visit our web site at [www.norriswiener.com](http://www.norriswiener.com).

Sincerely,

Jack Bransfield  
Norris-Wiener, Inc. / Bay State Spray Equip.

NEW ENGLAND LEADER FOR SPRAY EQUIPMENT • INDUSTRIAL FLUID HANDLING PRODUCTS • FINISHING SYSTEMS  
TEAM BLOWTHERM SPRAY BOOTH PRODUCTS • INSTALLATION AND SERVICE  
YOUR COMPLETE SOURCE FOR MEETING OR EXCEEDING STRINGENT ENVIRONMENTAL CODES

**Proudly Servicing N.E. Since 1952**

# NORRIS-WIENER, INC. BAY STATE SPRAY EQUIPMENT

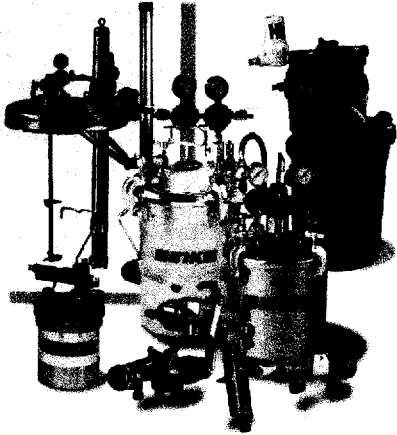
New England Distributor Since 1948

[www.norriswiener.com](http://www.norriswiener.com)

Industrial Spray Painting Equipment • Complete Turnkey Industrial Finishing Systems

## **BINKS**

Guns, Pressure Tanks, Pumps (Air & Airless), Hoses and Fittings,  
Manual and Automatic Equipment, Plural Component Systems,

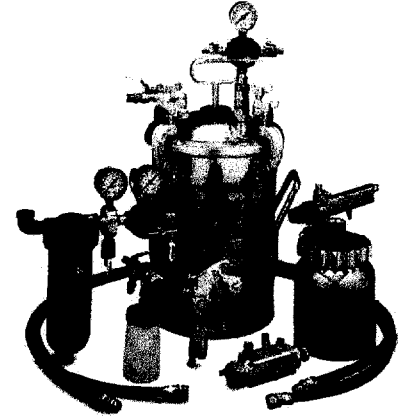


## **DeVILBISS**

Guns, Tanks, Air and Fluid Regulators

## **RANSBURG**

Electrostatic Equipment, Manual & Automatic,  
2K Equipment, Process Controls



## **KREMLIN**

Air-Mix- Airless Plural Component

## **NORDSON & WAGNER**

Powder Equipment

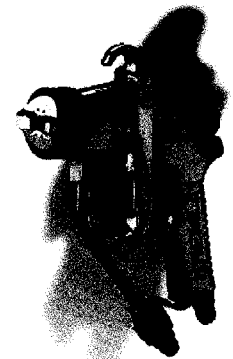


## **TEAM BLOWTHERM & COL-MET**

Industrial Spray Booths

## **MISC. RELATED ITEMS**

Booth Coating, Booth Filters, Booth Additive for Waterwash Booths,  
All Types Hoses, Fittings, Tack Rags and Accessories.



## **SUPERIOR CUSTOMER SERVICE**

## **FULL TIME SERVICE DEPARTMENT**

## **SAME DAY SHIPMENTS**

*Leaders in Spraying & Pumping Equipment,  
Supplies & Finishing Systems*

**1-800-553-2501**

TEL: (978) 670-2501 • FAX: (978) 670-5633

90 Chelmsford Road • No. Billerica, MA 01862-1399

Your Complete Source for Meeting or Exceeding  
Stringent Environmental Codes



# COLMET

# spray booths

## EZ-26 CLASSIC CROSSDRAFT AUTOMOTIVE BOOTHS

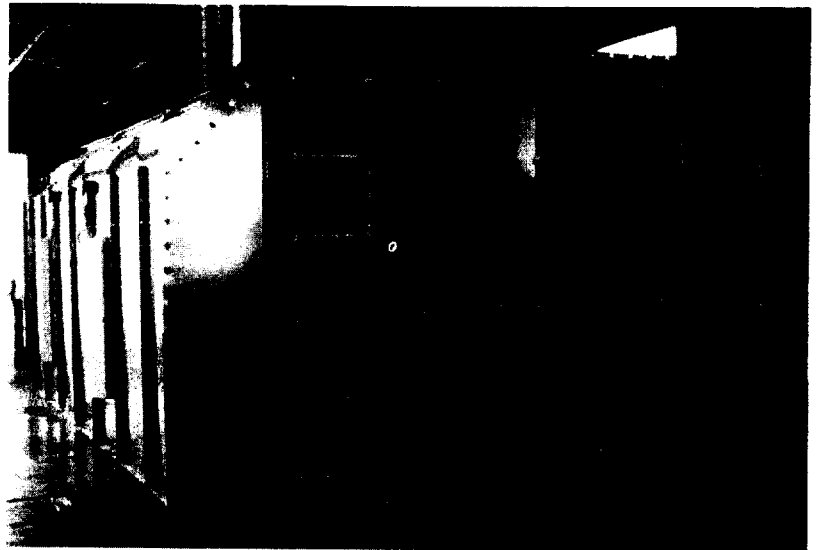
**EZ** TO QUICK SHIP

**EZ** TO INSTALL

**EZ** TO OPERATE

**EZ** TO MAINTAIN

The Col-Met Classic Crossdraft Booth intakes fresh air through filters in the product doors. The clean filtered air is drawn through the booth and exhausted through a filter system at the other end. This type of spray booth makes efficient use of shop space and is available in solid back, drive through and reverse flow designs. Reverse flow booths intake air through filters in the back wall. The solid faced product access doors are at the exhaust end of the booth. This provides cleaner intake filtering and better control of shop dust that might be tracked in at the vehicle entrance.



### CONSTRUCTION FEATURES AND QUALITY STANDARDS

All booth and plenum sections are made with 18-gauge steel. All product and personnel access doors are pre-hung in heavy gauge galvanized frames for easy installation. Brixon latches are provided for each door opening.

The exhaust system is driven by a 30" diameter fan with a 3HP motor.

All hardware, filters and sealants needed for the booth installation are included. The control panel and other electrical components are to be supplied by others.

**Col-Met Spray Booth products comply with all NEC, OSHA and NFPA regulations.**

### LIGHTING FEATURES

Bright full booth illumination is provided by ten four-tube, 48", 32-watt, fluorescent light fixtures in the angled ceiling panels and side walls. Each is sealed behind clear tempered safety glass. All fixtures are UL listed and approved for their intended use and placement. The light tubes are not furnished with the fixtures.

### EZ-26 CLASSIC CROSSDRAFT AUTOMOTIVE BOOTHS

Model Number	Interior Dimensions			Exterior Dimensions			Access Doors	Nominal Door Opening			Lights Open	Air Flow SCFM	Fan Spec.		Filters	
	Width	Height	Length	Width	Height	Length		Width	Height	Qty. Type			Dia.	HP	Int.	Ext.
ECC-26SB	14'-0"	9'-0"	26'-0"	14'-4"	9'-2"	26'-4"	1	9'-4"	8'-10½"	1 Filter	10	12,600	30"	3HP	20	16
ECC-26RF	14'-0"	9'-0"	26'-0"	14'-4"	9'-2"	26'-4"	1	9'-4"	8'-10½"	1 Solid	10	12,600	30"	3HP	20	16
ECC-26DT	14'-0"	9'-0"	26'-0"	14'-4"	9'-2"	26'-4"	1	9'-4"	8'-10½"	2 1 of ea.	10	12,600	30"	3HP	20	16



**UNIFIED BUILDING SCIENCES & ENGINEERING, INC.**  
405 INTERNATIONAL PARKWAY, SUITE 209 • RICHARDSON, TEXAS 75081  
(972) 783-8683 • FAX: (972) 783-8684

## PAINT SPRAY BOOTH CERTIFICATION

**MAKE:** Col-Met

**MODEL:** 1409-26-100-01-01

**MANUFACTURER'S NAME AND ADDRESS:**

Col-Met Spray Booths, Inc.  
2114 Sherwin Street  
Garland, Texas 75041

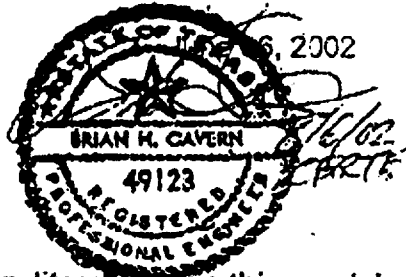
The undersigned hereby certifies that the above Paint Spray Booth complies with NFPA 33.

**SIGNATURE OF PROFESSIONAL ENGINEER:**

**ADDRESS:** 4311 Middleton Road  
Dallas, Texas 75041

**DATE:** 6/6/02

**SEAL:**



Back-up literature for this model showing design and specifications are contained in the current Col-Met catalogue in effect on this date.

**NORRIS-WIENER, INC.**  
**BAY STATE SPRAY EQUIP.**

90 CHELMSFORD ROAD, NORTH BILLERICA, MA 01862  
978-670-2501 • 800-553-2501 • FAX 978-670-5633

[www.norriswiener.com](http://www.norriswiener.com)

**UL Listings and Approvals on Col-Met Spray Booth Components**

- **Motor:** Manufactured by Baldor Motors and Drives. Motor: General Duty A.C., ODP type enclosure. UL file number: E47479.
- **Spray Booth Fan:** Manufactured by ACME Fan Co., Inc. Manufactured in accordance to A.M.C.A. specifications. Fan is tube-axial type and equipped with non-sparking, non-ferrous aluminum blade. Motor is mounted outside of the airflow.
- **Motor Starter:** Manufactured by Allen Bradley Industrial Controls. Starter is a general duty I.E.C. motor starter with over-load relay. UL file number: E3125.
- **Light Fixture:** Manufactured by LDPI, Inc. is a fluorescent fixture 120 volt. Light is mounted on the exterior of the Spray Booth and sealed with tempered safety glass. UL file number: E107621
- **Tempered Safety Glass:** Manufactured by Guardian Glass Co. Glass is fully tempered clear glass manufactured and tempered to meet the requirements of ANSI Z97.1 Standard and Federal Standard CPSC 16 CFR 1201. Meets NFPA 33 requirements.
- **Exhaust Filters:** Manufactured by: Viledon Filter is a paint arrestor filter rated at 98% efficiency for removal of paint over-spray. UL file number: R11507.
- **Intake Filters:** Manufactured by: Viledon Filter is an air intake filter rated at 95% efficiency at 10 microns. UL file number: R13314(N)
- **Caulking:** Manufactured by CR Laurence Co., Inc. Meets ASTM-C-838 specifications. Materials are non-hazardous and non-flammable.
- **Limit switch:** Manufactured by Square D. Limit switch is rated for 15 amps 120 volt. UL file number: E42259.
- **Air Solenoid Valve:** Manufactured by ASCO. Valve operates on 120 volt A.C. power. Valve is normally closed one way. UL File number: MH90115
- **Manometer Draft Gage:** Manufactured by Dwyer Instruments to meet NFPA 33 requirements.
- **Galvanized Steel:** Manufactured by: Wierton Steel Industries, 18 ga. Prime G-90 lock forming quality-mill flat. Meets ASTM-A653 specifications. Steel is galvanized in the hot-dipped process with a zinc coating. Meets NFPA 33 requirements.



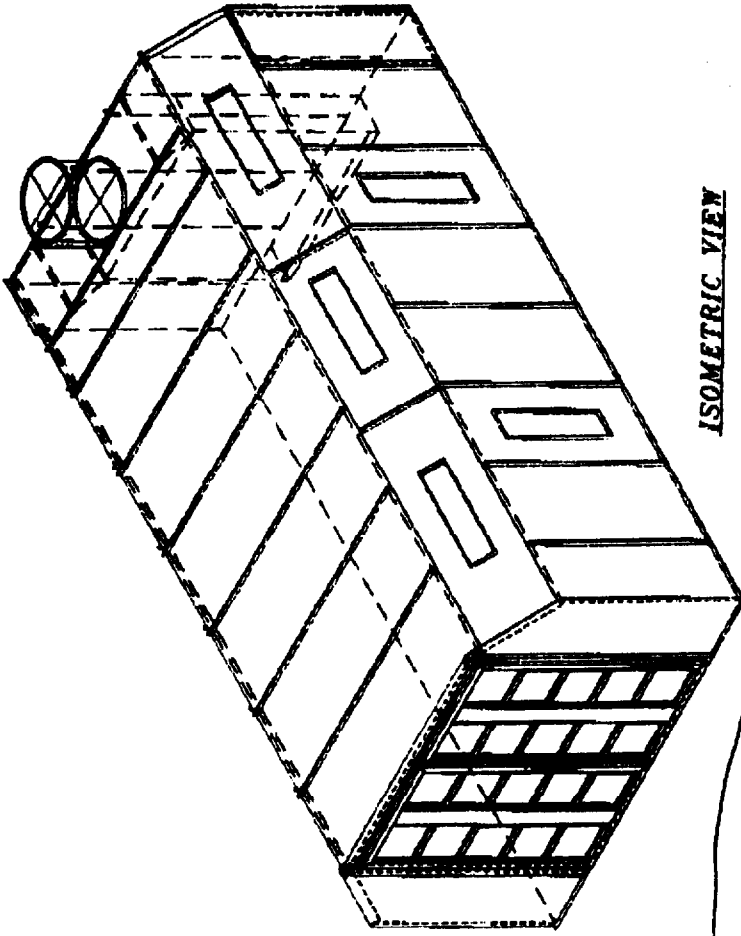
**Eric Jones**  
**Vice President COL-MET Spray Booths**



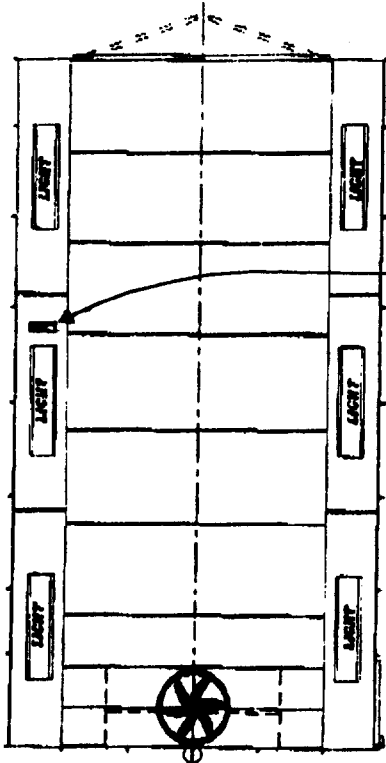
\* NOTE: 7" x 19" STEEL SUPPORT COLUMN CLAD WITH 2 LAYERS 5/8" FIRE RATED GYPSUM BOARD.

**COL-MET SPRAY BOOTHS  
ECC 26 SB**

Permit Drawing

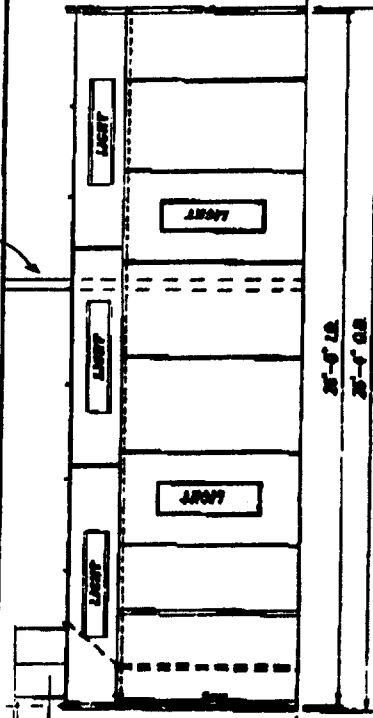


ISOMETRIC VIEW

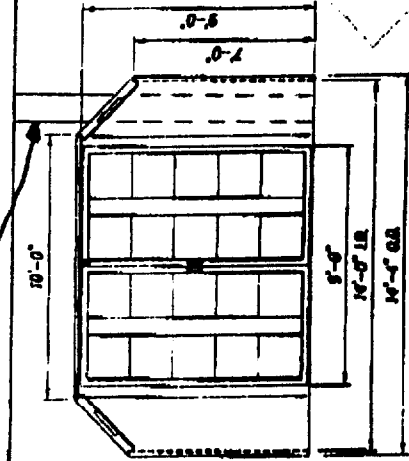


TOP VIEW

\* STEEL SUPPORT COLUMN



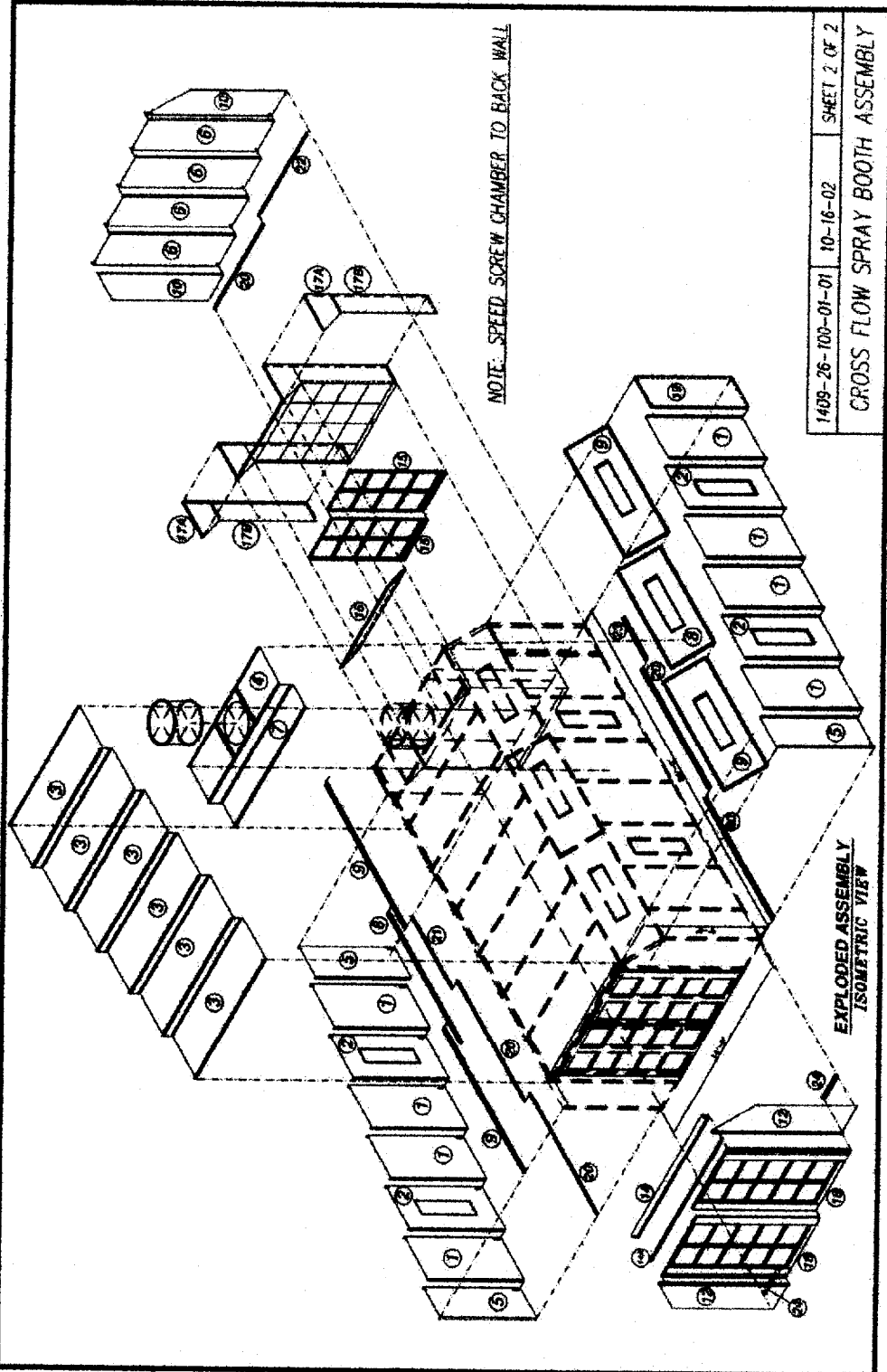
SIDE VIEW



FRONT VIEW

NORRIS-WIENER, INC.  
BAY STATE SPRAY EQUIP.  
90 CHELMSFORD ROAD, NORTH BILLERICA, MA 01862  
978-670-2501 • 800-553-2501 • FAX 978-670-5633  
WWW.NORTISWIENER.COM





1409-26-100-01-01 10-16-02 SHEET 2 OF 2  
 CROSS FLOW SPRAY BOOTH ASSEMBLY

DOORS	F17	150LF		FOAM TAPE GASKET		
	F16	2		6" DOOR PULLS		
	F15	ONE		P-2 DOOR LATCH	WITH BOLTS	
LIGHTS	F14	60		SPRING LIGHT CLIPS	6 PER LIGHT	
	F13	10		3/16" TEMPERED GLASS		14 1/2" X 48"
	F12	10	#229	LIGHT FIXTURES	OPEN TYPE	
FILTER	F11	16		FILTER GRIDS	WIRE MESH	20" X 20"
	F10	16		EXHAUST FILTERS	FIBERGLASS	20" X 20" X 2"
FAN	F9	ONE		MANOMETER		
	F8	6		TUBES OF CAULK		
	F7	100		SPEED SCREWS		
	F6	1200		5/16"-#-HEX NUTS		
	F5	1200		5/16"-#-BOLTS		
	F4	ONE	A-58	BELT		
	F3	ONE	MA48-1 1/8	SHEAVE		
	F2	ONE		3 HP MOTOR		
	F1	ONE	HA-30	30" TUBEAXIAL FAN		
	24	2	TC-024	TIE CHANNELS	18 GA. GALV.	X 24"
	23	ONE	TC-042	TIE CHANNEL	18 GA. GALV.	X 42"
	22	2	TC-084	TIE CHANNELS	18 GA. GALV.	X 84"
	21	ONE	TC-072	TIE CHANNEL	18 GA. GALV.	X 72"
	20	4	TC-120	TIE CHANNELS	18 GA. GALV.	X 120"
	19	ONE	AD-3084	ACCESS DOOR		30" X 84"
	18	1 SET	SEE DETAIL	FILTER DOOR ASSEMBLY	SEE LISTING	10'-0" X 9'-0"
	17B	1L-1R	SEE DETAIL	LOWER FILTER CHAMBERS	18 GA. GALV.	18" X 84"
	17A	1L-1R	SEE DETAIL	UPPER FILTER CHAMBERS	18 GA. GALV.	24" X 36"
	16	ONE	SEE DETAIL	TOP FILTER PANEL	18 GA. GALV.	30" X 80"
	15	2	SEE DETAIL	FILTER RACKS	18 GA. GALV.	40" X 84"
	14A	ONE	SEE DETAIL	DOOR STOP	# 14 GA. GALV.	X 120"
	14	ONE	SEE DETAIL	DOOR HEADER	18 GA. GALV.	6" X 120"
	13			NOT USED		
	12	1L/1R	SEE DETAIL	PANELS	18 GA. GALV.	26" X 114"
	11			NOT USED		
	10	1L/1R	SEE DETAIL	END WALL PANELS	18 GA. GALV.	26" X 110"
	9	4	34AAE108-1	HIP LIGHT (229) PANELS	18 GA. GALV.	34" X 108"
	8	2	34AAE96-1	HIP LIGHT (229) PANELS	18 GA. GALV.	34" X 96"
	7	ONE	24GAGA120-0	ROOF PANEL	18 GA. GALV.	24" X 120"
	6	4	30GAGA110-0	END WALL PANELS	18 GA. GALV.	30" X 110"
	5	3	30GAGA84-0	WALL PANELS	18 GA. GALV.	30" X 84"
	4A	2	C-035	PANEL STIFFENERS	18 GA. GALV.	X 35
	4	ONE	36GAGA120-4	ROOF FAN PANEL	18 GA. GALV.	36" X 120"
	3	6	42GAGA120-0	ROOF PANELS	18 GA. GALV.	42" X 120"
	2	4	42GAGA84-1	WALL LIGHT (229) PANELS	18 GA. GALV.	42" X 84"
	1	8	42GAGA84-0	WALL PANELS	18 GA. GALV.	42" X 84"
	ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WXL

BILL of MATERIALS FOR FRONT FLOW 1409-26-100-01-01



**COL-MET**  
**Spray Booths**

**< Installation Directions >**

## **GENERAL:**

This instruction manual is a guide for installing a variety of paint booths. The assembly drawings enclosed are specifically for the paint booth you have purchased. This drawing is an exploded isometric showing the relationship of each panel or part to the next one. A packing list of all components is provided and should be used in addition to the drawing when uncrating your booth to correctly identify all components.

**All DAMAGES MUST be reported within 24 hours of receipt and a freight claim filed with the carrier.**

## **PRELIMINARY:**

COL-MET booths are manufactured in accordance with NFPA 33, UFC 45 and NEC 516. However, local codes and regulations may apply to the installation and use of this product. It is recommended that all permits and approvals be obtained prior to installation and use of the spray booth.

### 1. Tools needed:

- Pry Bar
- Claw Hammer
- Drift Pin
- Assorted Wrenches (pneumatic tools are more efficient)
- Drill with 3/8" bit
- Screw Driver
- 2" x 4" Studs (or other suitable support method) for Supporting walls and gables during installation.
- 2 Ladders (8' – 10')
- *Hint: A Drywall Lift can be rented inexpensively and will Save time.*

2. Uncrate and inventory all spray booth components to ensure all of the parts are accounted for. Each component is numbered on the exploded view. Stack all common panels together.
3. The floor surface of the booth must be non-combustible material of such character as to facilitate the safe cleaning and removal of residues. The floor surface of the booth must be flat and level to avoid problems with erection and alignment of panels.
4. Using a chalk line, mark the dimensional outline of the booth on the floor.
5. Follow the step-by-step instructions provided.

## **Planning Ahead**

While planning the exact location of your new paint booth, keep the following specifications in mind, as they are **Your Responsibility**:

- A.) *Clearances between other work areas and combustible storage areas must be held as follows:*
  - 1.) *3 ft. minimum clearance at all sides and sealed entry ways (i.e., door ways).*
  - 2.) *5 ft. minimum clearance at all non-sealed entry ways (i.e., the open face of the IB booth or a silhouette openings).*
  
- B.) *A minimum of a 10 ft. clearance must be held between the exhaust stack of the booth and the intake of another apparatus. NFPA 33 dictates a minimum discharge clearance of 5' from the nearest combustible material; however, stack height requirements vary with individual states and can be up to 1½ times the building's roof height from grade.*
  
- C.) *A minimum of a 10 ft. clearance must be held between the intake of this booth and the exhaust of any other apparatus.*
  
- E.) *Permits are not included. It is the responsibility of the end user to acquire all permits to install a booth.*
  
- F.) *A fire suppression system is not included with the booth. Generally this is supplied and installed by a licensed local installer.*
  
- G.) *The fan, motor, & drive are included; however, the motor starter, wiring, conduit, and light switches are not. (The electrician wiring the booth normally supplies these items)*
  
- H.) *Don't forget to verify the electrical current available. All fans on Col-Met paint booths with electrical motors larger than 1 horsepower will require three phase electricity as standard power unless the single phase option is ordered.*

**Please Read:**

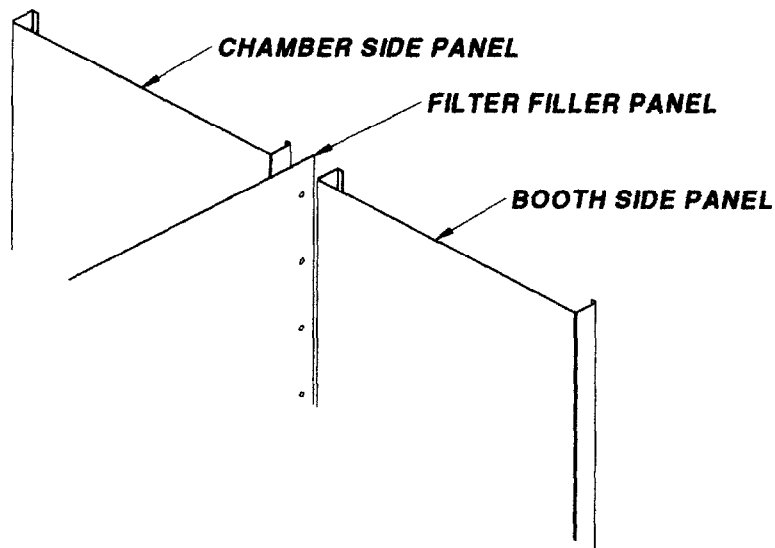
*Under no circumstances shall this booth be considered a load bearing structure... DO NOT walk on, stand on or use the spray booth as a support structure before, during, or after installation.*

**Hints:** *When assembling the booth, you should leave the bolts FINGER TIGHT ONLY until each section is assembled. All flanges should face outward. The nut end of the bolt should protrude outward (bolt heads inside the booth). Use a drift pin to align panel holes when two or more panels are difficult to align by hand. Floor anchors should be used at a minimum of every 12 inches apart.*

Following your chalk line, lay out all floor channel for the exhaust chamber and all the walls. As you attach the wall panels together, they will also bolt to the floor channel.

Starting with the exhaust chamber at either rear corner, bolt one corner panel and one rear wall corner panel together. Bolt opposite rear sidewall panel to rear wall panel. Bolt all rear wall panels in place. Once you have assembled the rear and sidewalls of the chamber, bolt the tie channel along the top edge of these panels.

Place exhaust fan panel above the side and rear wall panels and bolt in place. Bolt (sandwich) filter filler panels between the sidewall and roof panels and the exhaust chamber.





Following the exploded view drawings, continue alternately assembling wall panels and roof panels to each other until you reach the front end of the booth. Finish off the roof section by attaching the fire curtain if needed. If booth has front doors, no fire curtain is needed.

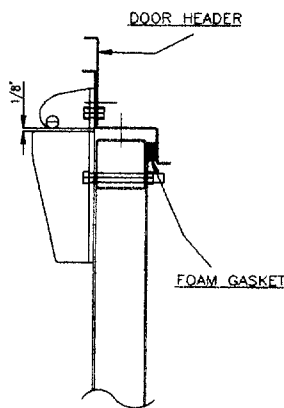
While assembling the work area of the booth, if an I-Beam is encountered, make sure the booth has been assembled accurately before anchoring.

Roof and gabled ends should be installed so the rest of the booth can support them.

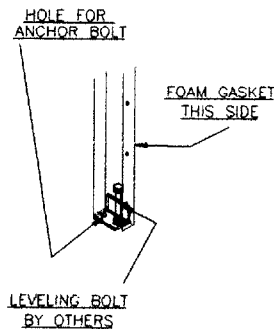
The remaining bolts that are not tight should be tightened now. Be sure the walls are plumb and true to your chalk-line before tightening. ALL bolts should be double checked to ensure that the main structure is tightly assembled.

Caulk all panel joints inside the booth with the caulk provided. Note: do not use a silicone caulk as this can cause finishing problems later.

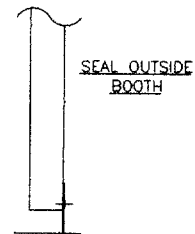
If your booth is supplied with a Personnel Door or Front Filter Doors, apply foam gasket to perimeter of all door openings. Attach all door hardware and adjust latches. Level door with doors off, then re-attach doors to hinges.



DOOR LATCH AND SEAL DETAIL



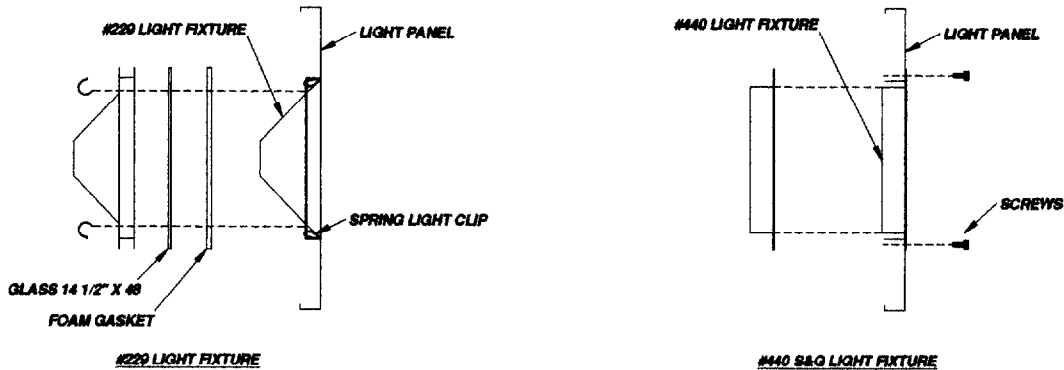
DOOR FRAME BASE DETAIL



THRESHOLD SEAL DETAIL

## Light installation

Most industrial booths are supplied with a Class I Division II light fixture that bolts in place. If your booth is supplied with open-type light fixture, apply foam gasket material around all window frame openings. Place glass against the gasket, then place the light fixture over the glass and use the provided springs to secure the fixture. (It is best to have assistance with this procedure). The bulbs required for the fixtures are T-8 (32watts).



The fan and motor assembly will bolt to the exhaust roof panel. Use the fan as a template and drill 3/8" diameter holes corresponding with the fan flange to attach the fan to the booth. Don't forget to install fan panel stiffeners (if they are supplied) after you know where to position your fan.

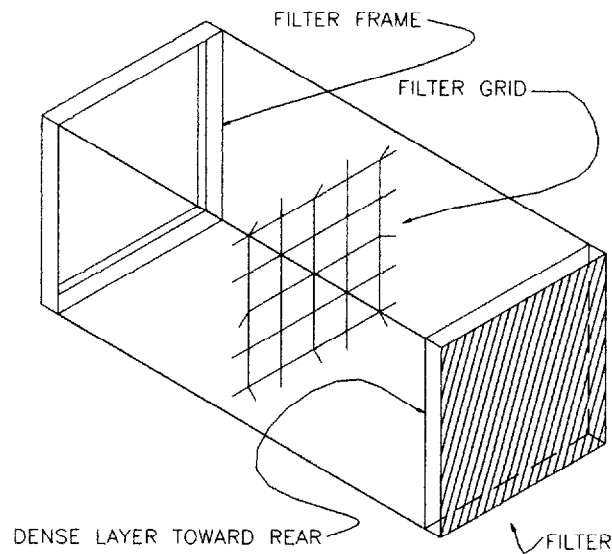
**It is recommended that you have a licensed electrician wire the fan motor, air solenoid valve and lights.**

Manometer is installed near the exhaust chamber. One side of the manometer tubing installs in the interior of the booth and the other tube installs in the exhaust chamber. Mount unit on the outside of exhaust chamber approximately 5' above floor level. Carefully read follow the installation instructions that come with the Manometer.

Initial calibration of manometer is made with booth totally shut down; adjust knob until gauge reads "0" inches. (Knob is on bottom left hand corner of manometer.) Install all new, clean exhaust filters; turn on all exhaust fans, close all doors and mark the gauge reading as "clean" (green arrow supplied with manometer), then turn exhaust fans off. Using cardboard, cover up every other exhaust filter, until 50% of all exhaust filters are covered up. Turn on all exhaust fans, close all doors and mark the gauge reading as "dirty" (red arrow supplied with manometer). This procedure simulates the filters loaded with paint, and establishes a base line for future filter replacement.

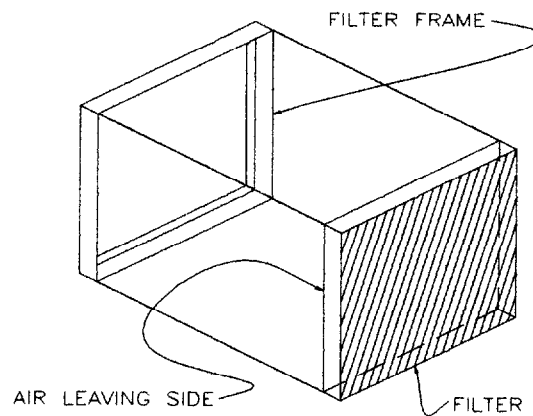
**Exhaust filter installation.**

Install one wire grid in each filter cell with the prongs facing into the booth; the exhaust filters will be attached to the prongs.



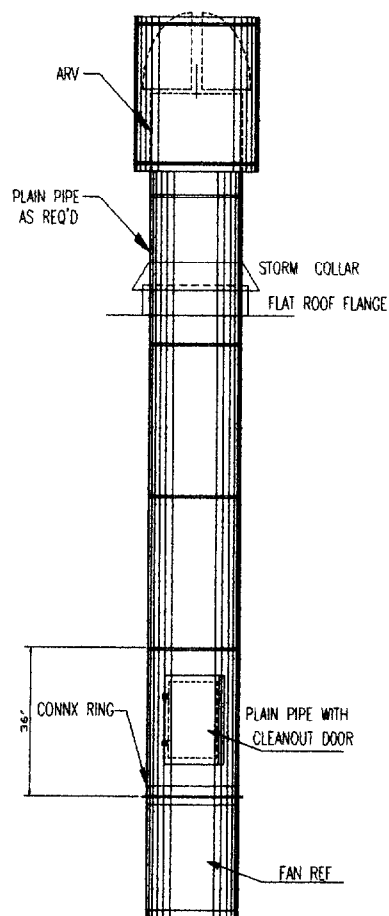
**Intake filter installation.**

If your booth has an intake plenum; simply insert the intake filter into the filter grid. The side that states "Air Leaving Side" on filter goes toward the inside of the booth.



## **exhaust duct.**

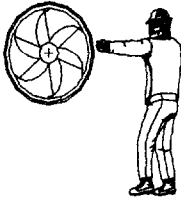

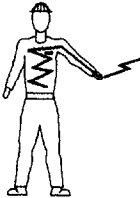
If you purchased the optional exhaust ductwork; we suggest you have the flashing professionally installed as this entails cutting a hole in the roof of your building. To assemble the ductwork, first bolt the pipe with connecting ring to the exhaust fan, the rest of the ductwork is crimped on one end to interlock with the next section. Your ARV (Automatic Damper) will be mounted on top. The storm collar will attach to the duct above the flashing to make it weather proof.



Where more than 25' of piping is required, the static pressure (resistance) is increased and the air flow may be hindered when using the standard exhaust unit recommended for use with the booth. Where a piping arrangement of an unusual nature is employed or where two or more elbows are used, a similar condition may exist. Therefore, if either of these situations arises, contact the booth manufacturer's engineering department for correct recommendations. We recommend exhaust piping, including the canopy (if used), should extend a minimum of 6' above the highest point of the building. There should be an access door just above the exhaust unit and another just below each elbow.

Check the following items prior to start up:

- 1.) Motors wired for proper voltage.
- 2.) All fans and motors turn freely.
- 3.) Lubricate all bearings. (Motor, Fan etc...)
- 4.) Check installation of exhaust fan for proper airflow direction. Generally airflow is out of booth.
- 5.) Listen for excessive or unusual noise when booth is operating.
- 6.) With booth operating, open any door for 30 seconds and see if paint air gun will shut down. This will verify proper safety operation of the booth.

<p><u>AREA</u></p> <p>Indicates where hazards can occur.</p>	<p><u>Hazard</u></p> <p>Indicates what can happen if precautions are not observed.</p>	<p><u>Safeguards</u></p> <p>Indicates how to avoid the hazard and what special protective clothing, equipment and precautions will be used</p>
<p><u>MOVING PARTS</u></p> 	<p>Loose items, or parts of the body may get caught and cause serious injury or damage.</p>	<p>Keep hands and all items away from the fan blades. A guard is NOT placed over the fan housing. A mesh type guard will act as an accumulation point for combustible residues and become a fire hazard.</p>
<p><u>HOT PARTS</u></p> 	<p>Motors get hot when running. Serious burns may result if touched.</p>	<p>Never touch the motor during, or immediately after operation of the fan.</p>
<p><u>ELECTRICAL HAZARD</u></p> 	<p>Electrical currents can cause serious injuries.</p>	<p>Always turn electricity OFF before attempting repair or maintenance of the fan or motor.</p>



**WRIGHT-RYAN CONSTRUCTION - MILLWORK DIVISION**

February 13, 2003

Department of Building Inspections  
389 Congress St.  
Portland, ME 04101

**RE: Permit for Wright-Ryan Construction Spray Booth**

To Whom It May Concern,

We recently had a fire in our existing spray finishing booth at our Millwork Shop at 276 Canco Rd. We are currently operating without a spray finishing facility, which is costing thousands of dollars in lost work and delay of millwork projects. Your expedient review of this application would be most appreciated.

This application is for a self contained, NFPA and OSHA approved, galvanized steel spray booth. I have included the site plan of our existing Millwork Shop building, a plan showing the location of the new booth in our building, and specifications on the booth itself, filters, and all other parts, which are also U.L. listed. Also included is information on the type of finishing equipment we currently are using and the fire suppression system we will be installing. All electrical and duct-work will be performed by certified licensed contractors, John Perry Electric and HVAC Services, who will be pulling their own permits for work performed.

We have done extensive research on the installation of this type of spray booth and would be happy to answer any questions you may have. I can be reached at the telephone and fax number listed below.

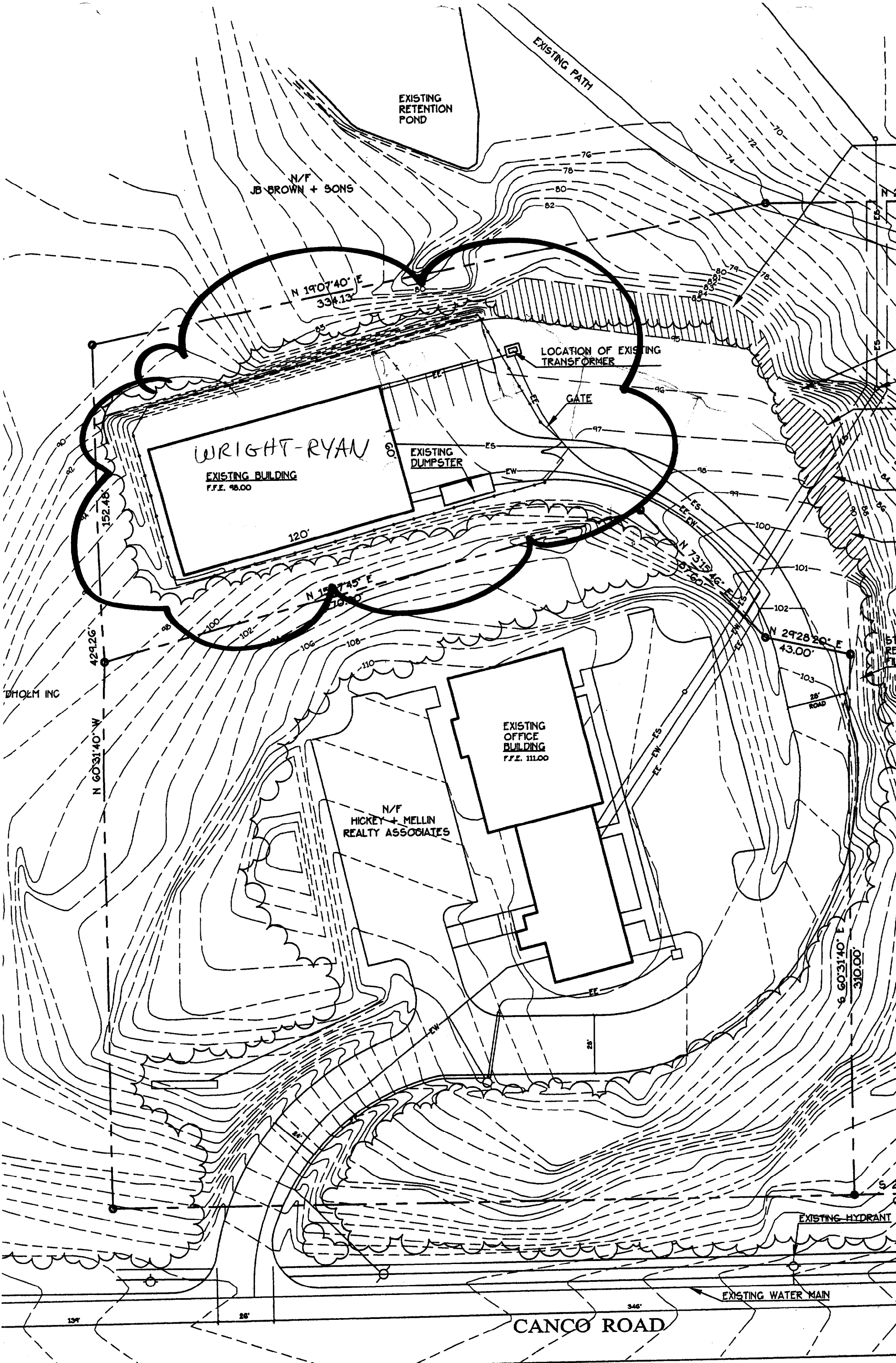
Once again, anything you can do to expedite our Permit Application will be greatly appreciated.

Thank You

Sincerely,

Martin Simpson  
Millwork Division Manager  
Wright-Ryan Construction  
E-mail: [m.simpson@rcn.com](mailto:m.simpson@rcn.com)

276 Canco Rd, Portland, Maine 04103 Phone (207) 775-6965 Fax (207) 842-0164



EXISTING  
RETENTION  
POND

N/F  
JB BROWN + SONS

WRIGHT-RYAN  
EXISTING BUILDING  
F.F.E. 98.00

LOCATION OF EXISTING  
TRANSFORMER

GATE

EXISTING  
DUMPSTER

EXISTING  
OFFICE  
BUILDING  
F.F.E. 111.00

N/F  
HICKEY + MELLIN  
REALTY ASSOCIATES

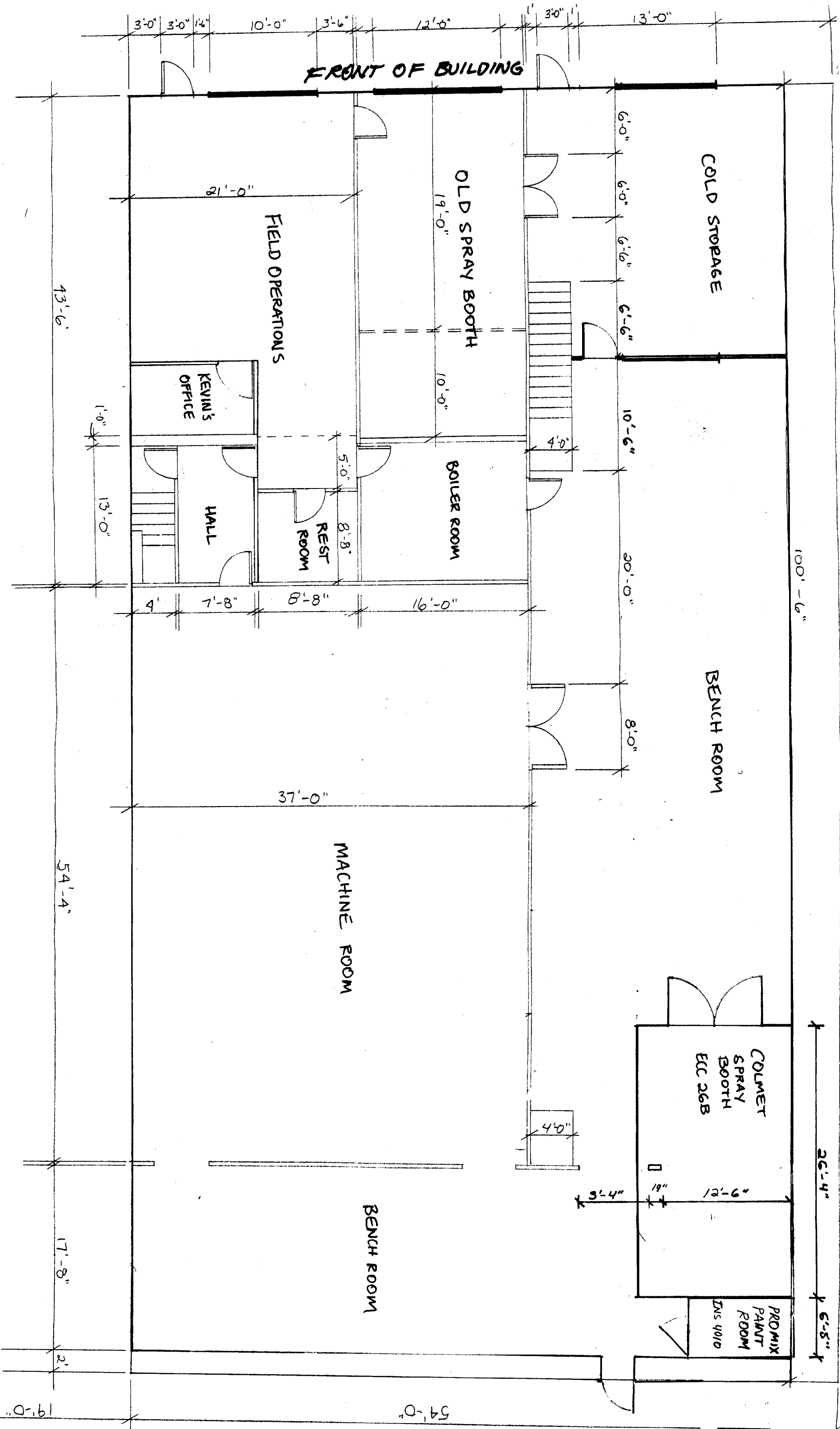
EXISTING HYDRANT

EXISTING WATER MAIN

CANCO ROAD

WJHOLM INC

5' TYP.  
RES. FL.



WR MILLWORK DIVISION - FIRST FLOOR PLAN  
 SCALE: 1/8" = 1'-0"

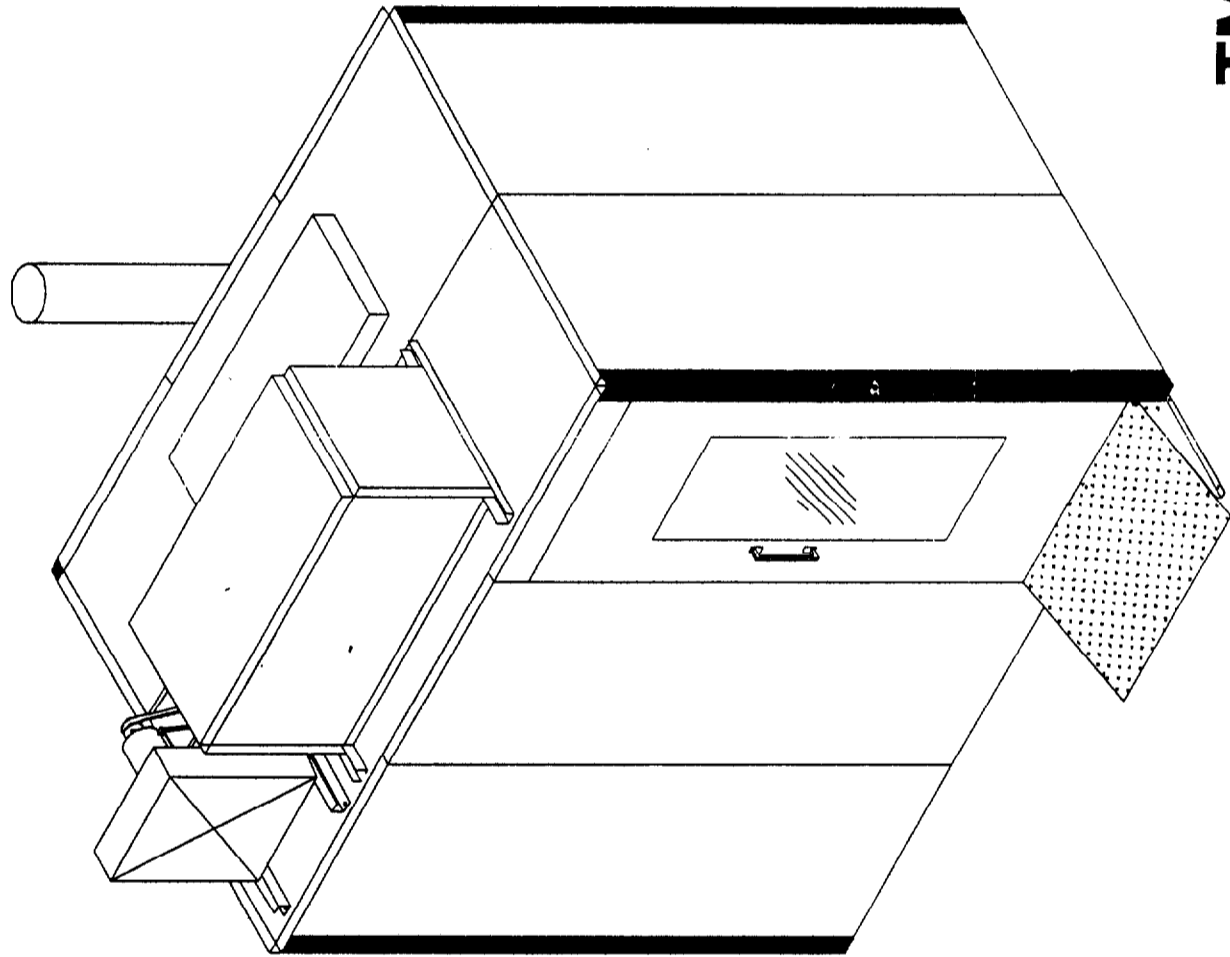
FENCE ↘

FENCE ↘



# DEWBIBS

AI-PMR  
PCN: 12110/12112  
DATE: 02/02/98  
REV: E



# PRO-MIX<sup>TM</sup>

INSTALLATION INSTRUCTIONS  
AI-PMR