

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-0878	Issue Date:	CBL: 029 N024002
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Location of Construction: 5 Commercial St	Owner Name: Erasmo Inc	Owner Address: 83 Bay St	Phone:
Business Name:	Contractor Name: Avery Services, Inc.	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:
Past Use: commercial	Proposed Use: commercial same footprint. Carrier replacing unit.	Permit Fee:	Cost of Work:
Proposed Project Description: commercial same footprint. Carrier replacing unit. <i>UNIT HANGING OFF THE REAR OF THE BUILDING</i>		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>N/A</i> Type: <i>9/26/04</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: 0612812004	Zoning Approval	

<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. 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.. 	Special Zone or Reviews <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"/> late:	Zoning Appeal <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 late:	Historic Preservation <input 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 late:
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CERTIFICATION

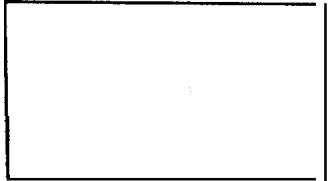
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, 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



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 109 West Use of Building RETAIL SPACE Date 6/22/04
 Name and address of owner of appliance The Finest Kind 9 Commercial St
Portland, ME 04101
 Installer's name and address Avery Services, Inc 7 Thomas Drive
Westbrook, ME 04092 Telephone 207-772-5657
FAX 207-772-0933

Location of appliance: (Attic)
 Basement Floor
 (Attic) Ceiling Roof

Type of Fuel:
 Gas Oil Solid

Appliance Name: Carrier
 U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:
 Master Plumber # _____
 Solid Fuel # _____
 Oil # _____
 Gas # PNT 1431
 Other _____

Type of Chimney: N/A
 Masonry Lined
 Factory built _____

Metal ✗
 Factory Built U.L. Listing # _____

Direct Vent
 Type _____ uL# _____

Type of Fuel Tank N/A
 Oil
 Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 8,150.00

Permit Fee: \$ 102.00

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: 2/22/04

See attached letter or requirement

Signature of Installer _____

Inspector's Signature _____

Date Approved _____

White - Inspection Yellow - File

Pink - Applicant's Copy (old - Assessor's Copy)

PROPOSAL 674

AVERY SERVICES, INC.
7 Thomas Drive
WESTBROOK, MAINE 04092
(207) 772-8687

FAX (207) 874-0933

TO: The Finest Kind
9 Commercial Street
Portland ME 04101

PHONE 772-2155	DATE 6/16/04
JOE NAME/ LOCATION Central A/C System	
JOB NUMBER MSD/	JOB PHONE

We hereby submit specifications and estimates for:

Avery Services, Inc. is pleased to submit a quote to perform the following work:

- Provide & install a Carrier 40FK Air Handler with a variable speed blower that uses 80% less electricity and is 12 times quieter than a standard unit
- Provide & install a Carrier 38TKB Condensing Unit (10 Seer) installed on a Polymer Pad on the roof
- Provide & install refrigerant lines between the two components.
- Provide & install a Carrier Themidistat **Control. Low** voltage wiring included.
- Provide & install a Carrier Mechanical Air Cleaner.
- Provide & install a galvanized duct trunk with eight (8) sidewall supplies and one return grille mounted on the return plenum.

EXCLUSIONS: Power Wiring, Roofing, Soffiting, Carpentry, Structural and Adequacy of Existing Systems.

We Propose hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of:
Eight Thousand One Hundred Fifty and 00/100 Dollars dollars (\$) **8,150.00** .

Payment to be made as follows:

25 % upon acceptance. Progress billing/net 10 days. All balances due upon completion.

If payment is not made as outlined above, a service charge of 2% per month on the overdue balance plus all reasonable costs of collection, including attorney's fee, will be paid.

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation insurance.

Authorized Signature

[Handwritten Signature]
Note: This proposal may be withdrawn by us if not accepted within 30 days.

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature

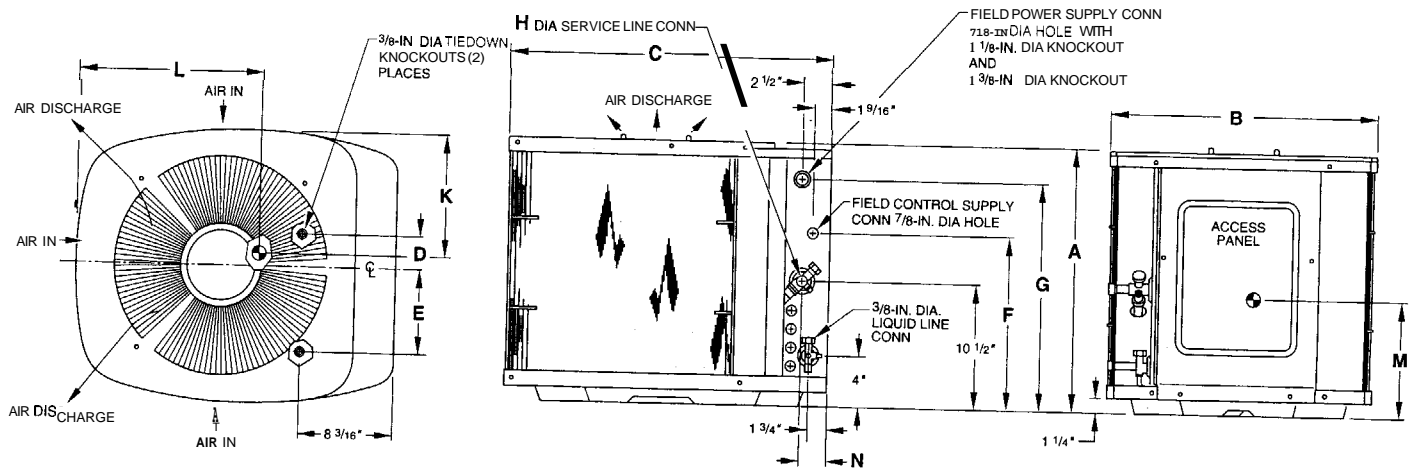
[Handwritten Signature]

Signature

Date of Acceptance: _____

NOTES:

1. Allow 30 in. clearance to service side of unit, 48 in. above unit, 6 in. on one side, 12 in. on remaining side, and 24 in. between units for proper airflow.
2. Minimum outdoor operating ambient in cooling mode is 55°F (unless low-ambient control is used) max 125°F.
3. Series designation is the 13th position of the unit model number.
4. Center of gravity



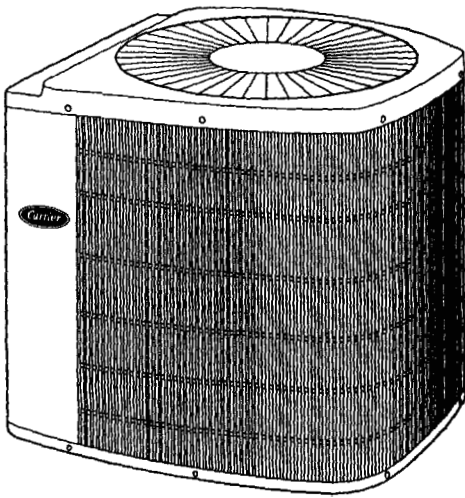
A97000

DIMENSIONS (IN.)

UNIT SIZE	UNIT DIMENSIONS													MINIMUM MOUNTING PAD DIMENSIONS
	SERIES	A	B	C	D	E	F	G	H	K	L	M	N	
018	33	21-7/8	22-1/2	27-1/2	2-13/16	6-15/16	13-3/8	17-7/8	5/8	12-3/16	14-1/2	10-3/8	2-3/8	20 x 27
024	33	21-7/8	22-1/2	27-1/2	2-13/16	6-15/16	13-3/8	17-7/8	5/8	12-3/16	14-1/2	10-3/8	2-3/8	20 x 27
030	33	25-7/8	22-1/2	27-1/2	2-13/16	6-15/16	15-1/2	21-7/8	3/4	12-3/16	14-3/4	12-9/16	2-3/8	20 x 27
036	34	31-7/8	22-1/2	27-1/2	2-13/16	6-15/16	21-1/2	27-7/8	3/4	12-3/16	14-3/4	12-9/16	2-3/8	20 x 27
042	33	25-7/8	30	34-15/16	4	9-3/4	15-1/2	21-7/8	7/8	15-3/4	19	12-13/16	2-15/16	26 x 32
048	37	31-7/8	30	34-15/16	4	9-3/4	21-1/2	27-7/8	7/8	15-3/4	19	14-1/16	2-15/16	26 x 32
060	35	37-7/8	30	34-15/16	4	9-3/4	27-1/2	33-7/8	7/8	15-3/4	19	17-1/16	2-15/16	26 x 32

DELUXE 10 SEER SPLIT-SYSTEM AIR CONDITIONER

The model 38TKB Air Conditioner is available in nominal cooling sizes **018** through **060**. The unit features a copper tube, enhanced aluminum fin coil for a compact, low profile appearance with vertical air discharge. Consult **PDD** for performance ratings.



STANDARD FEATURES

- SEER up to 12.0 with specified Carrier equipment
- Copper tube aluminum fin coil
- Totally enclosed PSC fan motor
- External back seating brass service valves with sweat connections
- AccuRater® piston
- WeatherArmor Condenser coil grille
- Compressor internal pressure relief valve and overloads
- Compressor terminal plug (Sizes **018-042**)
- Heat pump style base pan
- Accumulator (Sizes **048** and **060**)

LIMITED WARRANTY

- **5-year** parts only warranty on entire unit
- **10-year** parts limited warranty on compressor



REGISTERED QUALITY SYSTEM

ODS CATALOG ORDERING NO.	NOMINAL COOLING SIZE	VOLTS-PHASE (60 HZ)	OPERATING VOLTAGE RANGE	PACKAGED DIMENSIONS (IN.) H X W X D* †	APPROX	
					SHIP. WT (LB) ‡	PRICE
38TKB018---3	18	208-230-1	197-253	24 X 29 X 23	143-148	839
38TKB024---3	24	208-230-1	197-253	24 X 29 X 23	145-158	882
38TKB030---3	30	208-230-1	197-253	34 X 29 X 23	163-168	1048
38TKB036---3	36	208-230-1	197-253	34 X 29 X 23	164-173	1217
38TKB042---3	42	208-230-1	197-253	34 X 36 X 31	235-242	1313
38TKB048---3	48	208-230-1	197-253	34 X 36 X 31	246	1535
38TKB060---3	60	208-230-1	197-253	40 X 36 X 31	203	1802

	Net Price
OPTIONAL EXTENDED WARRANTIES	
Parts Only (excludes compressor, includes condenser coil) - 6 th through 10 th yr	<i>See Optional</i>
Labor Only (excludes compressor parts, includes compressor labor and condenser coil) - 2 nd through 5 th yr	<i>Warranty</i>
2 nd through 10 th yr Labor w/ 6 th - 10 th Parts	<i>Price Section</i>
Eligible Carrier Thermostat, <i>Electronic</i> Air Cleaner, Humidifier, Strip Heater, and TXV covered under <i>the</i> above warranties at NO	
	<i>See Optional</i>

SUPERSEDES DATE NEW

PC101
CATALOG NO. '03BOOK

PAGE 1
EFFECTIVE DATE 12/30/2002

ALEXANDER HUTCHEON ASSOCIATES
ENGINEERS

July 22, 2004

519 CONGRESS STREET
PORTLAND, MAINE 04101
TELEPHONE 297 774-0484

Mr. Art Banister
The Finest Kind
9 Commercial Street
Portland, Maine 04101

Re: Capacity of roof framing to support HVAC equipment
9 Commercial Street building

Dear Mr. Banister:

At your request, I have analyzed the roof framing of the westerly building at 9 Commercial Street, to determine whether the roof can support a proposed rooftop condensing unit, a suspended air handling unit, and the ductwork associated with this equipment.

As shown on the enclosed calculation sheet, the roof joists are adequate for a superimposed live load of about 62 lbs. per sq. ft. (psf.), but the girders, which are inverted queen-post trussed beams, are adequate for only a superimposed, uniform load of about 2 psf. This capacity is adequate for the distributed load of the ductwork, diffusers and hangers, plus the existing collateral load of lighting and miscellaneous fixtures.

The air handler and condenser will impose a concentrated load, which must be doubled to equal a uniformly distributed load to the girder. Since there is no reserve capacity in the girder for such an additional uniform load, it will be necessary to mount the condenser on the ground, outside the building, and it will be necessary to mount the air handler on the floor, with a vertical supply duct to the overhead ductwork.

Your questions and comments regarding this report are welcome.

Very truly yours,

ALEXANDER HUTCHEON Associates,
Engineers



Alexander Hutcheon, P.E.
President



Enclosures: Calculation sheet

AVERY SERVICES INC

Fax (207)874-0933 Phone (207)772-8687

Just the Fax

FROM: Michael Darling

DATE: 7-22-04

of pages to follow: _____

ATTENTION: Mike Nugent

RE: Finest kind
at 9 commercial

Thanks
Mike

ENGINEERS

SHT. 1 of 1

519 CONGRESS ST
PORTLAND, ME 04111
TEL 207-774-0411

7/22/04

$2 \times 8 @ 2'$

$S = \frac{1}{8}(2)(7.63)^2 = 19.406$

SAY $F_b = 1100$

$M = 19.406(1100)/12 = 1778.8$

$W = 8(1778.8)/(110)^2 = 142.31$

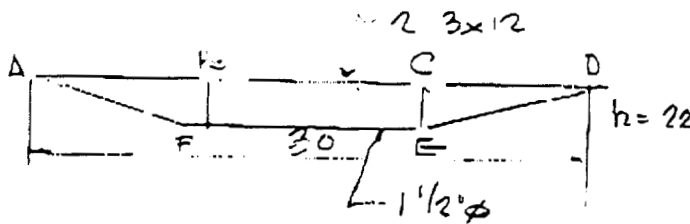
UNIF LL: $\left. \begin{array}{l} \text{DECK } 1.5 \\ \text{ROOF } 6 \\ \text{OIST } 1.5 \end{array} \right\} 9.0 \text{ PSF PL}$

$LL = \frac{142.3}{2} - 9 = 62.16$



Alexander Hutcheon
7/22/04

TRUSSED GIRDER



SAY $W = 10(60) = 600$

$W = 600(30) = 18000$

TENSION IN FE = $\frac{1}{30}(30 \times 12)(18000)/22 = 36000$ (Hook & Lanes: Stress, Vol. 1, CONNECTIONS, P 394)

FOR $1\frac{1}{2}$ " BAR, $A = 1.767 \text{ IN}^2$

$F_t = 36000/1.767 = 20,371.8 > 18000$

FOR $w = 42 + 9 + 2 = 53$

$f_t = 20,371.8(53/60) = 17,995 \text{ PSI} < 18000 \text{ OK}$

TOP CHORD BRACING

$M = .125(530)(10^2) = 6625$

$S = \frac{1}{6}(3)(11.625)^2(2) = 135.41$

$f_b = 6625(12)/135.41 = 588.3 \text{ PSI}$

COMPRESSION

$P-T = 36000(53/60) = 31,800$

$f_c = 31800/(3 \times 11.0)(2) = 460.9 \text{ PSI}$

#1 Trans. Fil.
(norm)

$F_b = 1300 \quad F_c = 925 \text{ PSI}$

CSI: $\frac{662.5}{1300} + \frac{460.9}{925} = 0.51 + 0.498 = 1.009 \quad 2.97\% \text{ OVER}$

PROPOSAL

674

AVERY SERVICES, INC.
7 Thomas Drive
WESTBROOK, MAINE 04092
(207) 772-8687

FAX (207) 874-0933

TO: The Finest Kind
9 Commercial Street
Portland ME 04101

JUL 26 2004

BEVE

PHONE	DATE
JOB NUMBER MSD/	JOB PHONE

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- Provide & install refrigerant lines between the two components.
- Provide & install a Carrier Themidistat Control. **Low voltage** wiring included.
- Provide & install a Carrier Mechanical Air Cleaner.
- Provide & **install** a galvanized duct trunk with eight (8) sidewall supplies **and** one **return grille** mounted on the return plenum.

EXCLUSIONS: Power Wiring, Roofing, Soffiting, Carpentry, Structural and Adequacy of Existing Systems.

We Propose hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of:

~~Eight Thousand One Hundred Fifty and 00/100 Dollars~~

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All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tomado, and other necessary insurance. Our workers are fully covered by Worker's Compensation insurance.

Authorized Signature

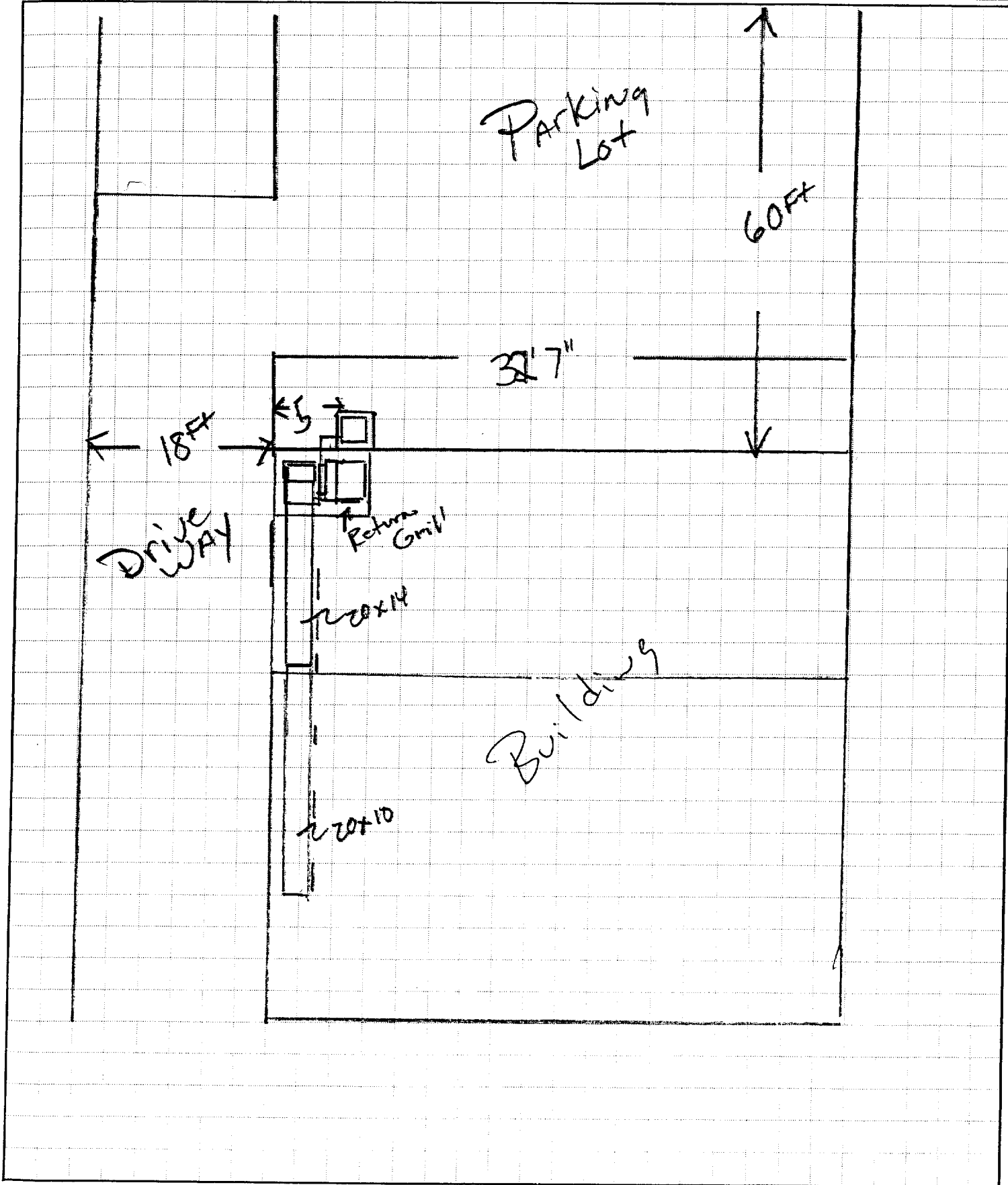
Ba Uey, President
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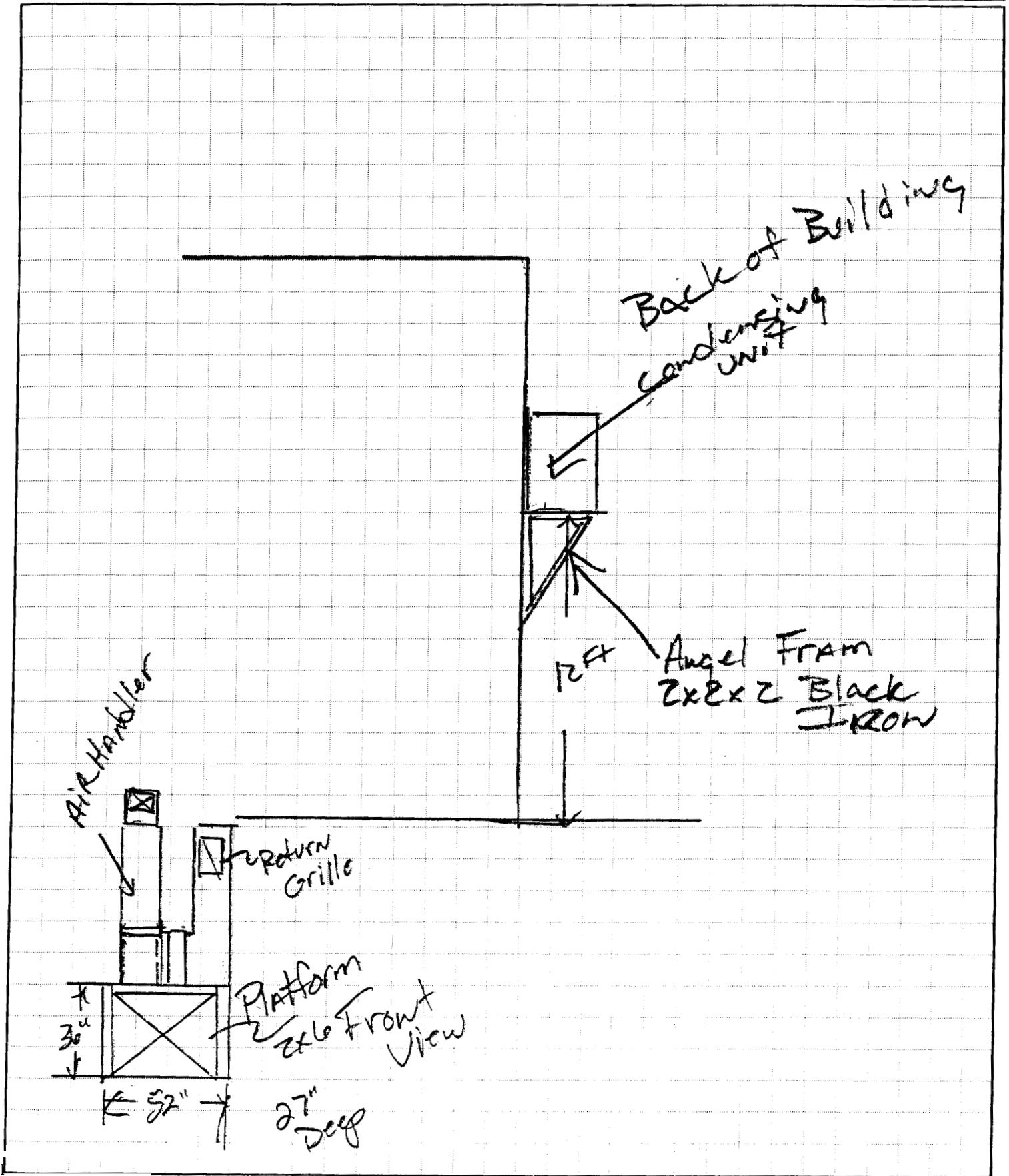
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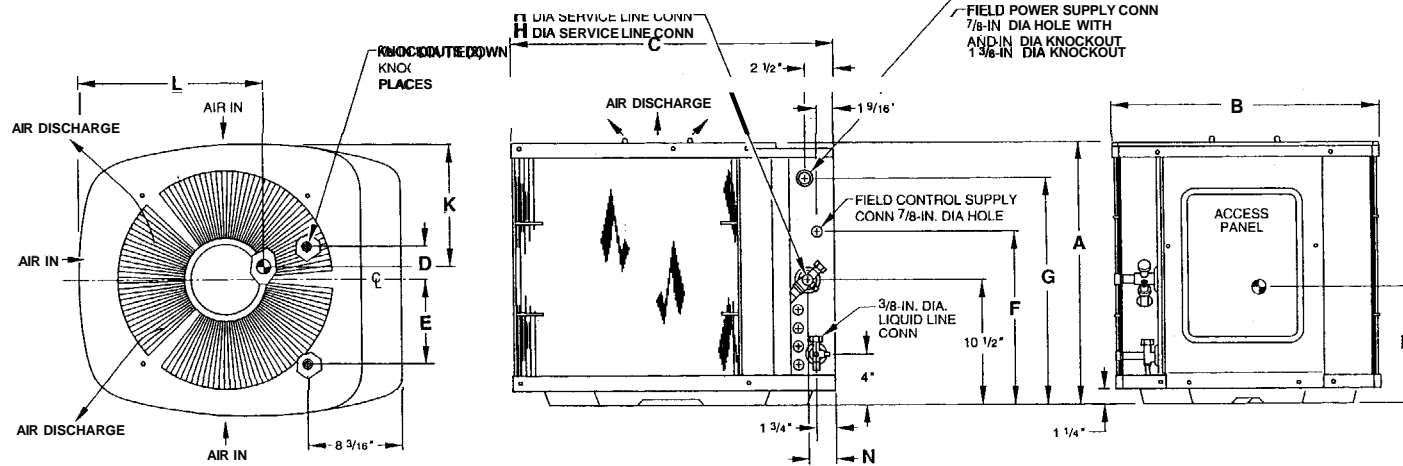
Date of Acceptance: _____





NOTES:

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4. Center of gravity



A97000

DIMENSIONS (IN.)

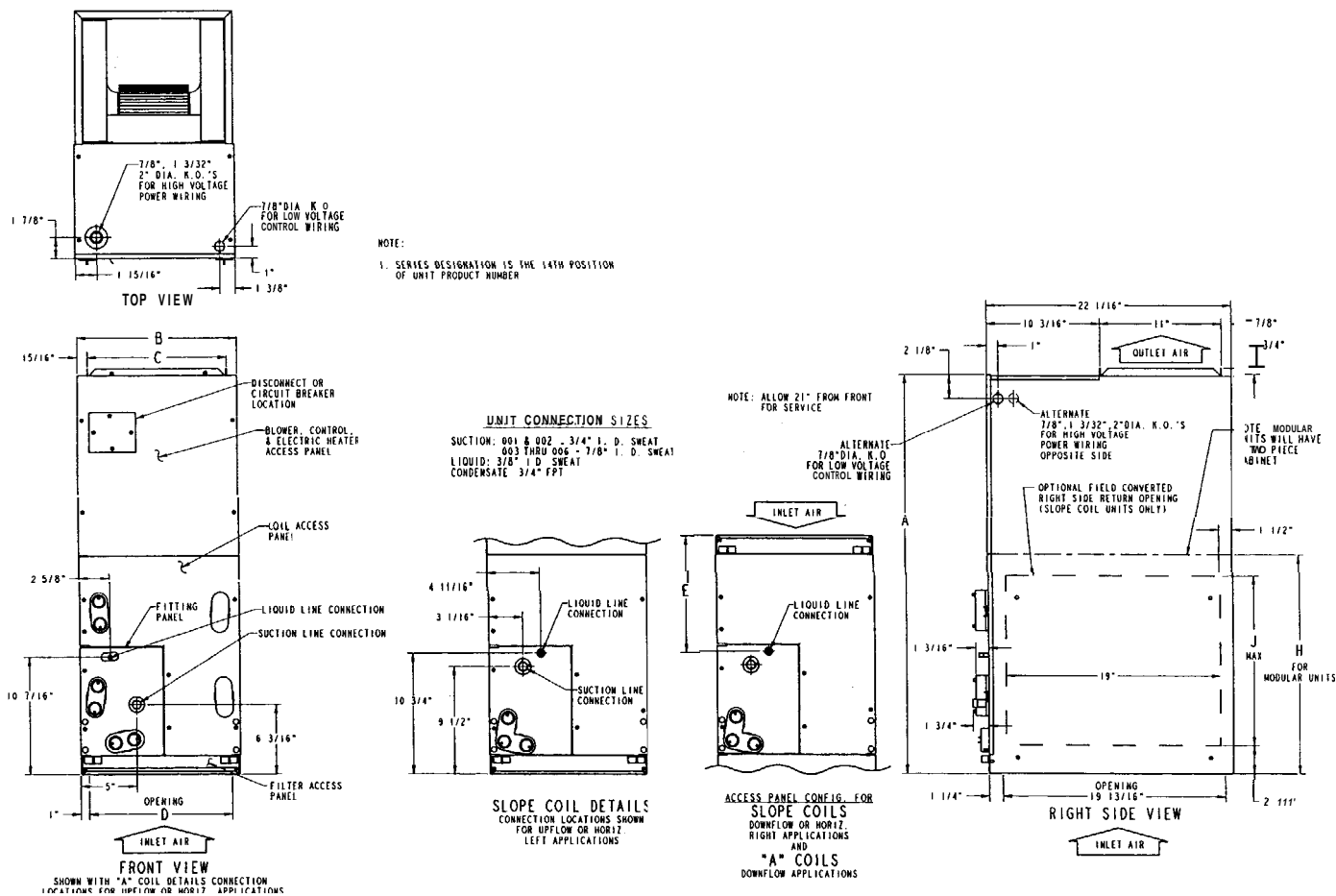
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		A	B	C	D	E	F	G	H	K	L	M		N
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024	33	21-7/8	22-1/2	27-1/2	2-13/16	6-15/16	13-3/8	17-7/8	5/8	12-3/16	14-11/2	10-3/8	2-3/8	20 x 27
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684

unit weight 203 lbs.

RESIDENTIAL HVAC

4 Dimensions



A02302

UNIT	SIZE	A in.	B in.	C in.	D in.	E in.	H in.	J in.
FK4D	001	47-5/8	17-5/8	15-3/4	15-5/8	15-3/8	—	17
	002	42-11/16	17-5/8	15-3/4	15-5/8	10-3/4	—	—
	003	53-7/16	21-1/8	19-1/4	19-1/8	19-3/16	—	19
	005	53-7/16	21-1/8	19-1/4	19-1/8	19-1/2	—	—
	006	59-3/16	24-11/16	22-3/4	22-11/16	25-1/4	34-1/16	—

unit weight 204 lbs

A95536