

**City of Portland, Maine - Building or Use Permit Application**  
 189 Congress Street, 04101 Tel: (207) 874-8700, Fax: (207) 874-8716

Permit No:	04 0395	STATUS:	PERMIT ISSUED
Location of Construction:	225 Douglas St	Owner Address:	225 Douglas St
Business Name:		Contractor Address:	CITY OF PORTLAND
Owner Name:	Durand Water Dist	Permit Type:	HVAC
Contractor Name:	Avery Services, Inc.	Zone:	IM

Proposed Project Description:	Extension of air conditioning installed for A/C
Proposed Use:	Office Building, wire and ducts installed for A/C

Permit Fee:	Cost of Work:	CEO District:
	\$0.00	3
BIRE DEPT:	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION:
APPROVED:	<i>[Signature]</i>	<i>[Signature]</i>
PRESTRIAN APPROVALS DISTRICT (PWA):	<input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	Signature: <i>[Signature]</i>

Permit Taken By:	Date Applied For:	<b>Zoning Approval</b>		
kwf	05/12/2004	Special Zone or Review:	Zoning Appeal:	IDB Staff Reviewer:
1. This permit application does not include the Applicant's best practice applicable State and Federal Rules.		<input type="checkbox"/> None	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not a District or Landmark
2. Building permits do not include plumbing, septic or electrical work.		<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Do Not Apply to Review
3. Building permits are void if work is not started within six (6) months of the date of issuance. For more information, see applicable building permit and stop of work.		<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Security Review
		<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretive	<input type="checkbox"/> Approval
		<input type="checkbox"/> Other	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
		Maj: <i>[Signature]</i>   Minor: <i>[Signature]</i>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
		Date: <i>5/14/04</i>		Date: <i>[Signature]</i>

**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 comply with 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 work permit.

SIGNATURE OF APPLICANT	ADDRESS	CITY	PHONE
RESPONSIBLE PERSON TO CONTACT WORK PERMIT		DATE	SIGNATURE



**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703 Fax: (207) 874-3716

Permit No: 14-1095	Date Applied For: 10/12/2014	CR#: 079-0008001
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Location of Construction: 225 Douglas St	Owner Name: Portland Water Dist	Owner Address: 225 Douglas St	Phone:
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Business Name:	Contractor Name: Avery Services, Inc.	Contractor Address: 7 Thomas Drive Westbrook	Phone: (207) 732-9087
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License/Owner Name:	Phone:	Permit Type: HVAC
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Proposed Use: Office Building w/external chills installed for A/C	Proposed Project Description: exterior chills installed for A/C
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Dept: Zoning	Status: Approved	Reviewer: Marge Schuchard	Approval Date: 05/14/2014
Note:			Ok to Issue: <input checked="" type="checkbox"/>

Dept: Building	Status: Approved	Reviewer: Mike Nugent	Approval Date: 10/12/2014
Note:			Ok to Issue: <input checked="" type="checkbox"/>

Dept: Fire	Status: Approved	Reviewer: T.J. MacDougal	Approval Date: 05/12/2014
Note:			Ok to Issue: <input checked="" type="checkbox"/>

# PROPOSAL

623

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

FAX (207) 874-0933

To: Portland Water District  
Attention: Richard Clark  
225 Douglas St.  
Portland ME 04104-3553

PHONE: 771-5961 Fax: 761-8387 DATE: 5/10/04

GENERAL LOCATION:  
Emergency Chiller Replacement  
Equipment Only

PROJECT NO: DCA/ WORK ORDER NO: 3056

We hereby submit special pricing and conditions for:

Avery Services, Inc. is pleased to quote as requested on supplying a replacement Chiller for the failed (15 year old) 60 ton Trane Chiller. Scope of Price to include:

A) Carrier 60 Ton Air Cooled Packaged Chiller

Supply a new Carrier 30 C/N (60 Ton) Packaged Air Cooled Chiller  
Price includes: Freight/Warranty (Reciprocating Compressor).

Price: \$36,217.00 Initial.

B) Trane 60 Ton Air Cooled Packaged Chiller

Supply a new Trane CGF1PC60L (60 Ton) Packaged Air Cooled Chiller.  
Price includes: freight/warranty (Scroll Compressor).

Price: \$42,807.00 Initial.

EXCLUSIONS: Installation, Disposal, and tax (copy of tax exempt certificate required).

We propose to fully furnish material and labor — complete in accordance with the above specifications for the sum of: \$79,024.00

Payment to be made as follows:

25% upon acceptance - All balances due upon delivery

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 fees will be paid.

All items to be guaranteed as per specifications. All work to be completed in a professional manner according to the specifications. Any work not completed in a professional manner will be reworked at no cost to the contractor. All materials and labor will be guaranteed for one year. All materials and labor will be guaranteed for one year. All materials and labor will be guaranteed for one year. All materials and labor will be guaranteed for one year.

Authorized Signature

Date: This proposal may be withdrawn if not accepted within 30 days.

30 days

Acceptance of Proposal -- To be signed by the contractor and the customer. The contractor shall be responsible for the cost of the proposal. Payment of the proposal shall be made as follows:

Signature

Signature

Date of Acceptance:

# PROPOSAL

626

**AVERY SERVICES, INC.**  
7 Thomas Drive  
WESTBROOK, MAINE 04092  
(207) 772-8887

FAX (207) 874-0933

TO: Portland Water District  
Attn: Richard Clark  
225 Douglas St.  
Portland ME 04104-3553

FROM: \_\_\_\_\_ DATE: \_\_\_\_\_  
774-5961 Fax 761-8307 5/30/04  
Subject: 04092  
Emergency Chiller Replacement  
Installation of New Chiller

PROJECT: \_\_\_\_\_ JOB NUMBER: \_\_\_\_\_  
DCA- \_\_\_\_\_ ext. 3056

We hereby certify that the above information is true and correct.

Avery Services, Inc. is pleased to quote as requested on the installation of the new 60 ton Chiller. Scope of work includes:

**A) Carrier Chiller**

Set new Chiller onto existing concrete pad, reconnect to existing systems.  
Price includes piping materials, welder, Crane Services, Labor, Licensed Electrician and disposal of existing unit.

Price: \$8764.00 Initial

**B) Trade Chiller**

Set new Chiller onto existing concrete pad, reconnect to existing systems.  
Price includes piping materials, welder, Crane Services, Labor, Licensed Electrician and disposal of existing unit.

Price: \$8564.00 Initial

**EXCLUSIONS:** Overtime Labor, Glycol, and adequacy of existing systems.

We Propose to use the best materials available — in partial accordance with the above specifications — for a total value of \_\_\_\_\_ dollars.

Payment schedule as follows:

25 % upon acceptance - all balances due at completion.

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

All proposals are subject to our approval. All work to be completed in a professional manner within the established schedule. Any alteration or deviation from above information must be in writing and approved in writing upon a written order. We will not be responsible for delays or cancellations due to the customer. All equipment, materials, supplies, and labor are subject to our approval. Control equipment, materials, and labor must be provided by the customer. All work will be done in accordance with the contract.

Accepted & dated \_\_\_\_\_

  
Note: This proposal may be considered void if not accepted within 30 days.

Acceptance of Proposal — The above price specifications and conditions are hereby accepted. See our order and work order for complete Agreement. All work to be done as indicated above.

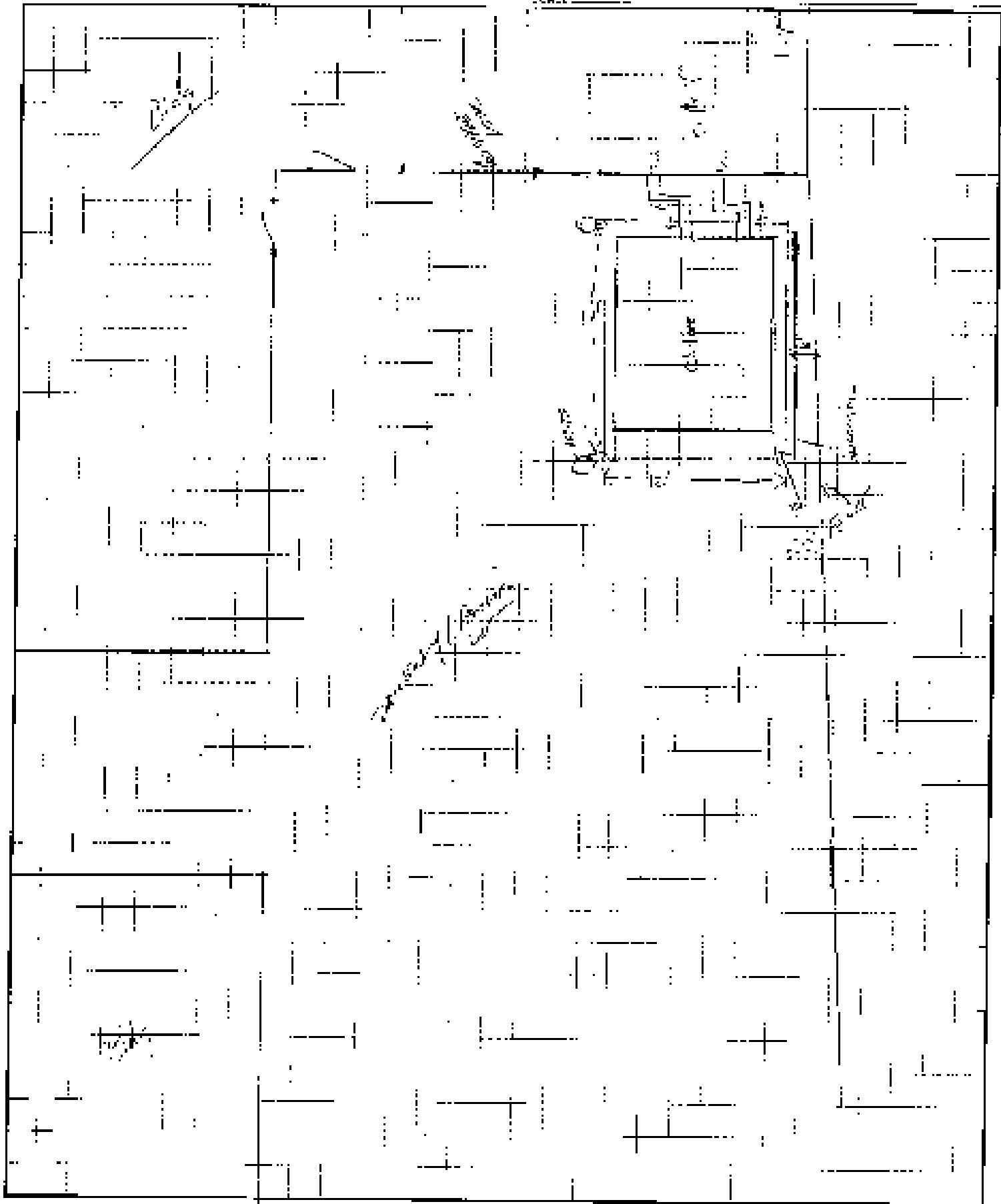
Accepted

Accepted

Accepted on \_\_\_\_\_

**AVERY SERVICES, INC.**  
7 Thomas Drive  
WESTBROOK, MAINE 04092  
(207) 772-8687  
FAX (207) 874-0993

JOB System Wiring District  
ADDRESS 231 Eudora St  
SCHEDULE NO. \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
SCALE 1/4" = 1'-0"









# 20-60 Ton Packaged Air-Cooled Chiller

## Job Information

Portland Water District



**TRANE**

## Model Description

Tag	CH-1
Unit type	CGAF
Model number	CGAF060
Nominal Capacity	80 ton
Power Supply	200/60/3
Factory input	
Design sequence	
Leaving Water Setpoint	48-50 F - eq. loc
Agency approval	
Min operating weight	4885.0 lb
Max operating weight	5820.0 lb

*Existing Chiller*

## Entering Conditions

Ent evaporator temp	54.00 F
Lvg evaporator temp	44.00 F
Evaporator flow rate	130.34 gpm
Evaporator fouling factor	0.00010 hr-sq ft-deg F/Btu
Ambient temperature	95.00 F
Fluid type	Water
Fluid concentration	
Evolution	

## Cooling Performance

Total cooling capacity	54.48 tons
Cooling fluid PID	5.87 ft H <sub>2</sub> O
Saturated suction temp	38.00 F
Fluid freeze pt	32.00 F
IPLV @ ARI	15.0 IPLV

## Part Load

<b>Step 1</b>	
Part load step 1	25.00 %
Capacity at step 1	16.81 tons
Ambient at step 1	95.00 F
Unit power at step 1	11.30 kW
EER @ design at step 1	
<b>Step 2</b>	
Part load step 2	50.00 %
Capacity at step 2	35.02 tons
Ambient at step 2	95.00 F
Unit power at step 2	25.18 kW
EER @ design at step 2	
<b>Step 3</b>	
Part load step 3	75.00 %
Capacity at step 3	48.03 tons
Ambient at step 3	90.00 F
Unit power at step 3	43.38 kW
EER @ design at step 3	

## Electrical Data

Power Supply	200/60/3
Compressor power	82.16 kW
Fan power	6.40 kW
System power	87.56 kW
EER @ design	
Min circuit ampacity	270.00 A
Max fuse size	300.00 A
Recommended dual element	300.00 A
<b>Circuit 1</b>	
Circuit 1 compressor 1 RLA	56.90 A
Circuit 1 compressor 2 RLA	56.90 A
Circuit 1 compressor 1 LRA	409.00 A
Circuit 1 compressor 2 LRA	409.00 A
<b>Circuit 2</b>	
Circuit 2 compressor 1 RLA	56.90 A
Circuit 2 compressor 2 RLA	56.90 A
Circuit 2 compressor 1 LRA	409.00 A
Circuit 2 compressor 2 LRA	409.00 A
FLA per fan	4.10 A
Fan quantity	8.00 Each

Electrical values provided are estimated only and are subject to change without notice and may differ from nameplate values.