



Chartwells Kitchen Facility Cooler/ Freezer System Replacement Invitation for Bids # PSPW-20-12

General Information		
Project Cost Estimate	\$750,000.00	See Section 1.4
Evaluation of Proposals	Staff	See Section 1.8
Mandatory Pre-Bid Meeting	10:00 a.m. on November 4, 2020 Meeting location will start at the Public Works office located at 8300 S Palm Dr. Pembroke Pines, FL 33025.	See Section 1.9.1
Question Due Date	November 9, 2020	See Section 1.9
Proposals will be accepted until	2:00 p.m. on November 24, 2020	See Section 1.9
5% Proposal Security / Bid Bond	Required in the event that the proposal exceeds \$200,000	See Section 4.1
100% Payment and Performance Bonds	Required in the event that the proposal exceeds \$200,000	See Section 4.2

**THE CITY OF PEMBROKE PINES
PURCHASING DIVISION
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020**



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ATTACHMENTS

- Attachment A: Contact Information Form
- Attachment B: Non-Collusive Affidavit
- Attachment C: Proposer’s Qualifications Statement
- Attachment D: Sample Insurance Certificate
- Attachment E: Specimen Contract - **Construction Agreement**
- Attachment F: References Form
- Attachment G: Standard Release of Lien Form
- Attachment H: Kitchen Facility Cooler/ Freezer System Replacement Plans



SECTION 1 - INSTRUCTIONS

1.1 NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

IFB # PSPW-20-12 “Chartwells Kitchen Facility Cooler/ Freezer System Replacement”

Solicitations may be obtained from the City of Pembroke Pines website at <http://www.ppines.com/index.aspx?NID=667> and on the www.BidSync.com website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at purchasing@ppines.com. The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the “Ask a Question” option tab available on the BidSync website. Responses to the questions will be provided online at www.bidsync.com. Such request must be received by the “Question Due Date” stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Proposals will be accepted until 2:00 p.m., November 24, 2020. Proposals must be submitted electronically at www.BidSync.com. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk’s Office, in the City Hall Administration Building, 4th Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

1.1.1 VIRTUAL BID OPENING

At the time of writing of this notice, Florida Governor Ron DeSantis’ Executive Order No. 20-69 (extended by EO 20-150, EO 20-179, EO 20-193, and EO 20-246) on the Coronavirus health alert, is due to expire on November 1, 2020. If the executive order is not extended then meetings may be a combination of in-person and virtual, all as provided by law, or as otherwise entered via an executive order of the governor. **In any event, the public is encouraged to attend the bid opening process virtually in lieu of attending the meeting in person.**



In addition, at the time of writing this notice, the City will not be opening up the physical location for public access as **City offices are closed to the public**, due to the COVID-19 Coronavirus Pandemic.

Bid openings for this project will be live-streamed from the City Clerk's Office, in the City Hall Administration Building, 4th Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025 at **2:30 PM on the bid due date**.

While recognizing the importance of public accessibility to the bid openings, and considering public health concerns, in the abundance of caution, the City is requesting that interested parties utilize live streaming as a safe way for vendors and the public to view the bid opening process in lieu of attending the meeting in person.

The public is invited to attend the meeting virtually via the Cisco Webex Meetings platform.

- Cisco Webex Meeting Number: 717 019 586
- Join by Phone Number: +1-408-418-9388

The public may download the **Cisco Webex Meetings app** from <https://www.webex.com/downloads.html/>, to view and listen to the meeting, however please make sure to mute your phone/microphone/device's audio and camera as the **public may attend the meeting but will not be allowed to comment or participate in the proceedings.**

If any member of the public requires additional information about this meeting or has any questions about how to access the meeting, please contact:

Danny Benedit, Procurement Department
City of Pembroke Pines
8300 South Palm Drive,
Pembroke Pines, FL 33025
954-518-9022
purchasing@ppines.com

1.2 PURPOSE

The city of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the contractor for the Chartwells Kitchen Facility Cooler/ Freezer System Replacement.

- **8400 West Cypress Drive Pembroke Pines, FL 33025**
- **The City has attached plans for this project:** (Attachment H: Kitchen Facility Cooler/ Freezer System Replacement Plans)



1.3 SCOPE OF WORK

1.3.1 DEMOLITION

- Remove all water cooled remote refrigeration condensers, associated water chilling tower, pumps and piping. Seal tight any wall and ceiling penetration.
- Reclaim refrigerant and evacuate the refrigerant pipes by code approved method prior to cutting pipe. Demolish all existing refrigerant piping associated with this unit. Seal tight any wall and ceiling penetration.
- Demolish existing evaporator unit and associated condensing unit, temperature sensors and alarm devices. Seal tight any wall and ceiling penetration.
- Demolish existing condensate piping back to active drain. Temporarily cap condensate piping connection to active drain. Seal tight any wall and ceiling penetration.
- Demolish existing self-regulating heat trace and associated wiring back to source.
- Demolish existing ventilation grille and temporarily cover opening to space above cooler/freezer.
- Demolish existing ventilation grille and permanently patch and seal opening to match surroundings. Refer to architectural sheets for details.

1.3.2 COOLER / FREEZER BOXES

- Furnish and install (provide) new walk in coolers/ freezer components as required by plan. All Walk-Ins must be EISA Compliant.
- Modular Panels to be connected with Cam Lock connectors. All walls, ceilings, and floor to use no wood unless otherwise noted.
- Insulation shall be 4" extruded polystyrene or 4" foamed in place polyurethane insulation. Panel insulation shall be extruded Polystyrene, manufactured in a HFC and CFC free process. Door insulation may be Polyurethane.
- Doors shall be self-closing, flush mount with magnetic gasket chrome latches and hinges. Vertical handle, safety release handle, automatic ELF closer.
- Lighting and thermometer shall be vapor proof.
- Floors shall be 22 GA Stainless Steel Extruded Polystyrene or .100 Aluminum foamed in place Polyurethane.
- The warranty shall be Limited 10 years on Panels and 1 year on parts.

1.3.3 MECHANICAL

- Contractor to furnish and install (provide) new Cold Zone Condensers, Evaporators, and all associated piping, ducting, insulation, and controls.
- Contractor shall provide new concrete pads for exterior equipment.
- Contractor shall provide an Independent Test and Balance report upon completion of installation.



1.3.4 ELECTRICAL

- All existing electrical wiring and disconnect means serving old refrigeration equipment shown on the mechanical drawings shall be disconnected from existing electrical branch circuit breakers and removed. Existing electrical circuit breakers serving equipment being removed shall remain in the electrical panels as spare for future use.
- Contractor shall furnish and install new wiring, branch circuits, and panels as required by plan.
- Contractor shall run control wiring in a separate conduit from power to each cooler or freezer to associated condensing unit equipment (refrigeration rack) as directed by the equipment provider.

1.3.5 GENERAL INFORMATION

- Contractors are responsible for and shall verify and coordinate all dimensions and details before proceeding with work. Any discrepancies shall be brought to the immediate attention of the architect, engineer and city's Project Manager.
- Contractor shall fully brace and otherwise protect all work in progress until the building is completed.
- All structural items for this project shall be designed in accordance with appropriate provisions of each of the following:
 - The Florida building code, (sixth edition) 2017.
 - Aci standard 318-14 building code requirements for reinforced concrete.
 - Aisc "specification for the design, fabrication and erection of structural steel for buildings" 360-10.
 - Asce 7-10 (with errata dated January 11, 2011) "minimum design loads for buildings and other structures".
 - North American specification for the design of cold-formed steel structural members, AISI S100.
- Contractor shall provide all testing, manufacturer warranties and certifications such as soil testing and special inspector, required for the permitting and construction of the project.
- The successful bidder shall employ a competent superintendent who shall be in attendance at the project site during the progress of the work. The superintendent shall be the primary representative for the bidder and all communications given to and all decisions made by the superintendent shall be binding to the bidder.
- Contractor will be required to schedule all work with the city's project manager.
- Contractor shall be required to provide all temporary fencing as applicable.
- Contractor shall be responsible for all debris removal and restoration to any existing areas. Site shall be made safe and clean of debris at the end of each workday.
- All precautions need to be taken for life safety and protection of people, vehicles, and all other structures on the site.



- The work must be performed Monday through Friday or as approved by the project manager.
- Contractor shall have a minimum 5 years of licensed local commercial refrigeration experience.

1.3.6 SHOP DRAWINGS

- No structural drawings shall be reproduced for use as shop drawings.
- All dimensional coordination shall be done by the contractor.
- Contractor shall check all architectural and mechanical drawings for all attachments, clips, openings, or duct work affecting structural members. All items shall be shown on shop drawings.
- There shall be no deviation from approved construction documents without prior approval from the City. If any changes are proposed by the contractor or the provider of the shop drawings, they should be clearly indicated, signed, and sealed drawings and calculations by a Florida professional engineer must be provided. Any changes without proper documentation indicated above will result in some revisions by the engineer of record and/or architect. The cost for these revisions including engineer and architectural fees shall be paid by the contractor.

1.3.7 USE OF PREMISES

- Contractor shall limit their use on the premises for work and storage, and to allow for owner's occupancy.
- Contractor shall coordinate use of premises under direction of owner representative, assume full responsibility for protection and safe keeping of products under this contract stored on site, and move any stored products under contractor's control which interfere with operations of the owners or separate contractor.

1.3.8 WARRANTIES

- Contractor shall provide a (2) year workmanship warranty. In the event that a defect occurs during this time, contractor shall perform such steps as required to remedy the defects. Contractor shall be responsible for any damages caused by defect to affected area or to interior structure. Warranty period shall commence upon issuance of Certificate of Occupancy by the regulating permitting agency, and the subsequent release of any performance or payment bonds, which may be required by the original bid document.

1.3.9 LIQUIDATED DAMAGES

- As a breach of the service provided by this agreement would cause serious and substantial damage to city properties, and the nature of this agreement would render it impracticable or extremely difficult to fix the actual damage sustained by city by such breach, it is agreed that, in case of breach of service wherein contractor fails to



maintain the properties, leaving the said properties in disrepair, city may elect to collect liquidated damages for each such breach, and contractor will pay city as liquidated damages, and not as penalty, **five hundred dollars (\$500.00)** for every day of such malfunction. This sum is the agreed upon amount by which city will be damaged by the breach of such service. An election to seek such remedies shall not be construed as a waiver of any legal remedies' city may have as to any subsequent breach of service under this agreement.

1.4 PROJECT COST ESTIMATE & TIMELINE

- Staff estimates this project to cost approximately **\$750,000.00** which does not include permit costs.
- The work shall be completed within **180** days from issuance of city's notice to proceed.

1.5 PERMITS

Please note that the City will waive all City related permit, license, impact or inspection fees (including the Building Department and Engineering Department Permit Fees) related to this project. Any related State or County fees, for the aforementioned permits, will be paid by the City.

In addition, the City shall cover the cost for any other permit fees related to external entities through the City's Owner's Contingency for this project, **therefore proposers should not include permit costs in their total proposal price.**

1.5.1 PERMIT ALLOWANCE

With the exception of the City related permit, license, impact or inspection fees (including the Building Department and Engineering Department Permit Fees), which will be waived for this project, the City does not anticipate any additional permit, license, impact or inspection fees for this project.

1.6 PROPOSAL REQUIREMENTS

The www.bidsync.com website allows for vendors to complete, scan and upload their documents as part of the bidder's submittal on the website. Prospective proposers interested in responding to this solicitation are requested to provide all of the information listed in this section. Submittals that do not respond completely to all of requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged.

1.6.1 Attachment A: Contact Information Form

- Attached is contact information form (Attachment A) where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized



to represent the contractor. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal.

- b. The vendor must provide their pricing through the designated lines items listed on the BidSync website.
- c. Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.
- d. The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.
- e. Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
- f. Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

1.6.2 Attachment B: Non-Collusive Affidavit

1.6.3 Attachment C: Proposer's Qualifications Statement

1.6.4 Attachment F: References Form

- a. Complete **Attachment F: References Form**, preferably where the team was the same. References should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications.

1.6.5 Proposal Security (Bid Bond Form or Cashier's Check)

- a. Each Proposal should be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.



- b. Contingency is not to be counted in the total amount the proposal security is based on.
- c. Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync.
- d. Proposers should also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive.
- e. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSPW-20-12 "Chartwells Kitchen Facility Cooler/ Freezer System Replacement"**" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.
- f. Please see **SECTION 4 - SPECIAL TERMS & CONDITIONS** of this IFB for additional information.

1.7 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS

The City has implemented a new process that is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will require vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and re-submit the forms each time they bid on a City project.

Furthermore, please make sure to update this information on an as-needed basis so that all pertinent information is accurate, such as local business tax receipts, and any other relevant information.

These forms will be found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines. Please note that the BidSync website requires bidders to complete all of these qualifications prior to being able to submit questions on any bids, therefore, please make sure to complete this information as soon as possible.

The following documents can be completed prior to the bidding process through the BidSync website and do not need to be attached to your submittal as the BidSync website will automatically include it.

1.7.1 Vendor Information Form

1.7.2 Form W-9 (Rev. October 2018)



- a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

1.7.3 Sworn Statement on Public Entity Crimes Form

1.7.4 Local Vendor Preference Certification

- a. If claiming Local Pembroke Pines Vendor Preference, business must attach a current business tax receipt from the City of Pembroke Pines
- b. If claiming Local Broward County Vendor Preference, business must attach a current business tax receipt from Broward County or the city within Broward County where the business resides.
- c. The Local Vendor Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Local Vendor Preference based on their sub-contractors' qualifications.

1.7.5 Local Business Tax Receipts

1.7.6 Veteran Owned Small Business Preference Certification

- a. If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
- b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Veteran Owned Small Business Preference based on their sub-contractors' qualifications.

1.7.7 Equal Benefits Certification Form

1.7.8 Vendor Drug-Free Workplace Certification Form

1.7.9 Scrutinized Company Certification

1.8 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.



1.9 TENTATIVE SCHEDULE OF EVENTS

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	October 27, 2020
Mandatory Pre-Bid Meeting	10:00 a.m. on November 4, 2020
Question Due Date	November 9, 2020
Anticipated Date of Issuance for the Addenda with Questions and Answers	November 12, 2020
Proposals will be accepted until	2:00 p.m. on November 24, 2020
Proposals will be opened at	2:30 p.m. on November 24, 2020
Evaluation of Proposals by Staff	TBD
Recommendation of Contractor to City Commission award	TBD
Issuance of Notice to Proceed	TBD
Project Commencement	TBD
Project Completion	180 days from issuance of city's notice to proceed.

1.9.1 MANDATORY PRE-BID MEETING / SITE VISIT

There will be a mandatory scheduled pre-bid meeting on **November 4, 2020 at 10:00 a.m.** Meeting location will start at the Public Works office located at 8300 S Palm Dr. Pembroke Pines, FL 33025.

1.10 SUBMISSION REQUIREMENTS

Bids/proposals **must be submitted electronically** at www.bidsync.com on or before **2:00 p.m. on November 24, 2020.**

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their pricing through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. **Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.**

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.



PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked **“BID SECURITY - IFB # PSPW-20-12 “Chartwells Kitchen Facility Cooler/ Freezer System Replacement”** and sent to the City of Pembroke Pines, City Clerk’s Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

**CONTACT INFORMATION FORM**

IN ACCORDANCE WITH “PSPW-20-12” titled “Chartwells Kitchen Facility Cooler/ Freezer System Replacement” attached hereto as a part hereof, the undersigned submits the following:

A) Contact Information

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

COMPANY INFORMATION:

COMPANY: _____

STREET ADDRESS: _____

CITY, STATE & ZIP CODE: _____

PRIMARY CONTACT FOR THE PROJECT:

NAME: _____ TITLE: _____

E-MAIL: _____

TELEPHONE: _____ FAX: _____

AUTHORIZED APPROVER:

NAME: _____ TITLE: _____

E-MAIL: _____

TELEPHONE: _____ FAX: _____

SIGNATURE: _____

**B) Proposal Checklist**

Did you make sure to submit the following items, as stated in section 1.5 “Proposal Requirements” of the bid package?

Attachment A - Contact Information Form	Yes_____
Attachment B - Non-Collusive Affidavit	Yes_____
Attachment C - Proposer’s Completed Qualification Statement	Yes_____
Attachment F - References Form	Yes_____
Does your proposal exceed \$200,000 for this construction project? If so, please include a Proposal Security (Bid Bond or Cashier’s Check) along with a line item to provide a Payment and Performance Bond. (See Package for details)	Yes_____

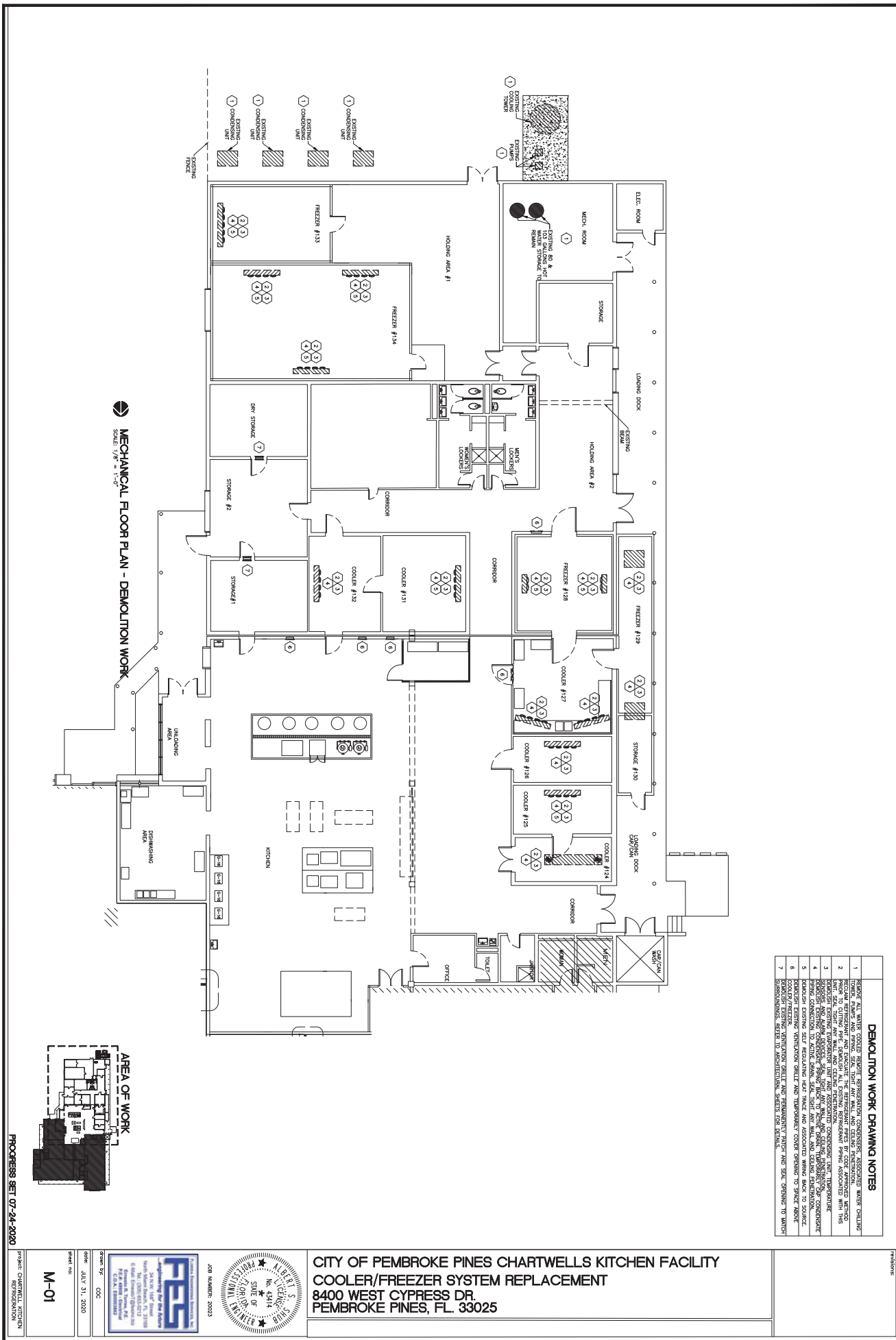
Did you make sure to update the following documents found under the “Vendor Registration” group of “Qualifications” on the BidSync website for the City of Pembroke Pines?

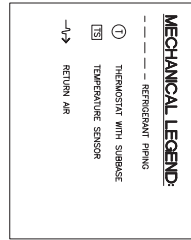
Vendor Information Form	Yes_____
Form W-9 (Rev. October 2018)	Yes_____
Sworn Statement on Public Entity Crimes Form	Yes_____
Local Vendor Preference Certification	Yes_____
Local Business Tax Receipts	Yes_____
Veteran Owned Small Business Preference Certification	Yes_____
Equal Benefits Certification Form	Yes_____
Vendor Drug-Free Workplace Certification Form	Yes_____
Scrutinized Company Certification	Yes_____

C) Sample Proposal Form

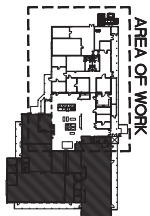
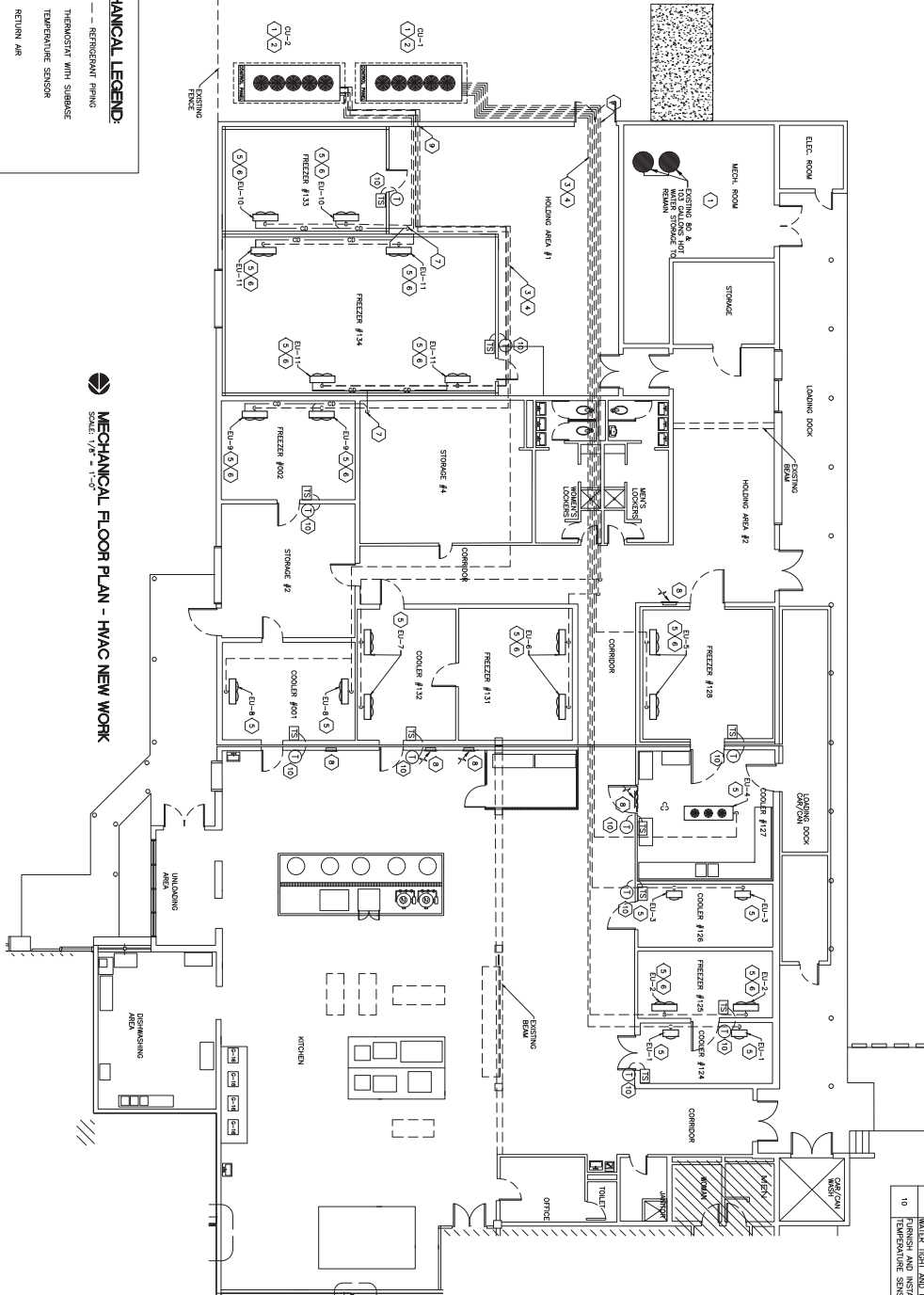
The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

#	Location	Total Coast
1	Chartwells Kitchen Facility Cooler/ Freezer System Replacement Project Cost	Price to be Submitted Via BidSync
2	Cost to Provide Payment and Performance Bond for the project, in the form of a percent	Percent to be Submitted Via BidSync





MECHANICAL FLOOR PLAN - HVAC NEW WORK
SCALE: 1/8" = 1'-0"



NEW WORK DRAWING NOTES	
1	PROVIDE 3.5 FT. CLEARANCE ON ALL SIDS OF NEW CONDENSING UNIT RACK.
2	REMOVE CONCRETE AND SET DETAIL IN SHEET M-4-03 FOR FURTHER SPECIFICATIONS.
3	EXTEND REFRIGERANT PIPING FROM CONDENSING UNIT THROUGH EXISTING EXTERIOR WALL TO BUILDING CEILING SPACE. SUPPORT PIPING FROM CEILING STRUCTURE AS REQUIRED. INSULATE PIPING PER SPECIFICATION. TURNISH AND PROVIDE WALL COORDINATE FIRE RATING WITH MANUFACTURER'S RECOMMENDATION. SEAL WALL PENETRATIONS WITH GROUT TO NEW COOLER/FREEZER BOX. MAINTAIN CLEARANCES AS PER MANUFACTURER'S RECOMMENDATION. TAKE WITH THERMISTAT 7-POINTS PER LINEAR FOOT ON CONDENSATE DRAIN PIPE LOCATED IN FREEZER. COORDINATE INSULATION WITH FREEZER/FREEZER WITH A SEPARATE COORDINATE PROVIDE DRAINAGE IN FLOOR AND ROUTE CONDENSATE DISCHARGE DRAIN TO GRADE WITHIN CHASE SPACE.
4	REMOVE NEW SIRE WALL UNLESS AS PER SPECIFICATIONS.
5	REMOVE EXISTING CONDENSING UNIT RACKS AND COOLERS WHERE NOTED.
6	COORDINATE PRE-SIZING WITH MANUFACTURER'S RECOMMENDATION. SEAL PENETRATIONS WITH GROUT TO NEW COOLER/FREEZER WITH A SEPARATE COORDINATE PROVIDE DRAINAGE IN FLOOR AND ROUTE CONDENSATE DISCHARGE DRAIN TO GRADE WITHIN CHASE SPACE.
7	REMOVE EXISTING CONDENSING UNIT RACKS AND COOLERS WHERE NOTED.
8	COORDINATE PRE-SIZING WITH MANUFACTURER'S RECOMMENDATION. SEAL PENETRATIONS WITH GROUT TO NEW COOLER/FREEZER WITH A SEPARATE COORDINATE PROVIDE DRAINAGE IN FLOOR AND ROUTE CONDENSATE DISCHARGE DRAIN TO GRADE WITHIN CHASE SPACE.
9	REMOVE EXISTING CONDENSING UNIT RACKS AND COOLERS WHERE NOTED.
10	COORDINATE PRE-SIZING WITH MANUFACTURER'S RECOMMENDATION. SEAL PENETRATIONS WITH GROUT TO NEW COOLER/FREEZER WITH A SEPARATE COORDINATE PROVIDE DRAINAGE IN FLOOR AND ROUTE CONDENSATE DISCHARGE DRAIN TO GRADE WITHIN CHASE SPACE.

PROGRESS SET 07-24-2020

City of Pembroke Pines
Engineering & Design
8400 West Cypress Dr.
Pembroke Pines, FL 33025
Phone: (305) 833-1234
Fax: (305) 833-1235
www.pembrokepines.com

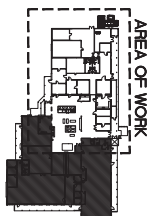
STATE OF FLORIDA
No. 43414
JULY 31, 2020
C.E.A. Engineering

PROFESSIONAL ENGINEER
No. 12345
JULY 31, 2020
C.E.A. Engineering

Drawn by: DCS
Date: JULY 31, 2020
Sheet no: M-02

Project: CHARTWELL'S KITCHEN
Refrigeration

CITY OF PEMBROKE PINES CHARTWELL'S KITCHEN FACILITY
COOLER/FREEZER SYSTEM REPLACEMENT
8400 WEST CYPRESS DR.
PEMBROKE PINES, FL. 33025



NEW WORK DRAINING NOTES

1. DRAINAGE OF PARAPETS SHALL BE PROVIDED BY THE TRAP FROM SINK OR TUB AND SHALL DRAIN FROM THE EXTERIOR OF THE BUILDING. THE DRAIN SHALL BE INSTALLED TO THE EXTERIOR OF THE BUILDING.
2. DRAINAGE OF ROOFS SHALL BE PROVIDED BY THE TRAP FROM SINK OR TUB AND SHALL DRAIN FROM THE EXTERIOR OF THE BUILDING. THE DRAIN SHALL BE INSTALLED TO THE EXTERIOR OF THE BUILDING.
3. DRAINAGE OF FLOORS SHALL BE PROVIDED BY THE TRAP FROM SINK OR TUB AND SHALL DRAIN FROM THE EXTERIOR OF THE BUILDING. THE DRAIN SHALL BE INSTALLED TO THE EXTERIOR OF THE BUILDING.

revision

JOB NUMBER: 2002

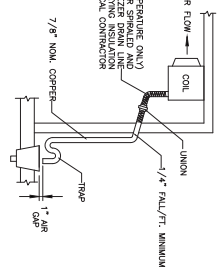
FES
—engineering for the future—
34 New 160th Street
North Miami Beach, FL 33168
Tel: (305) 653-0212
E-Mail: Emailed@fescorp.biz
Ernesto R. Torres, P.E.
P.E.# 49994 / Electrical
C.O.A.# EB0003882

own by:

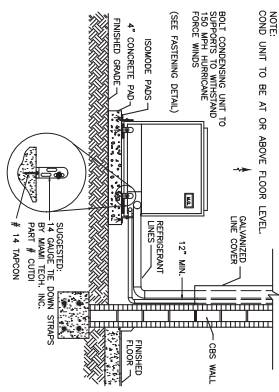
Sheet no:

MI-03


PROGRESS SET 07-24-2020



EVAPORATOR UNIT INSTALLATION DETAIL



CONDENSING UNIT INSTALLATION DETAIL

AIR DISTRIBUTION SCHEDULE						
SYMBOL	DESCRIPTION	SERIAL	MANUFACTURER	MODEL NUMBER	MATERIAL	REMARKS
	REGISTER		AIR GUIDE	WHOB	ALUMINUM	1-2

REMARKS:

1. EACH REGISTER, REGISTER, COLORS, ETC. SHALL BE COORDINATED WITH ARCHITECT AND INTERIOR DESIGNER
2. DOUBLE DEFLECTION WITH ORB.

FLOOR DRAIN SCHEDULE						
MARK	OUTLET (IN.)	BOOT	STRAINER	MODEL NUMBER	MODEL NUMBER	REMARKS
FD-1	3	CAST IRON	6" INCH BRONZE	TURN	2415B	1-2

FLOOR DRAIN SCHEDULE

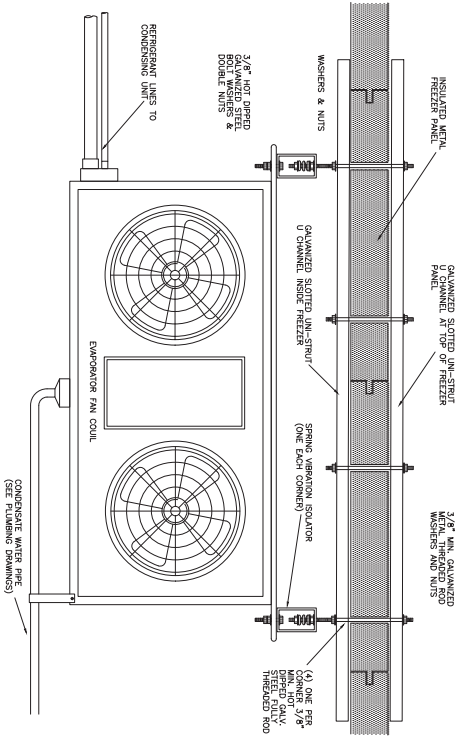
FLOOR DRAIN SCHEDULE						
MARK	OUTLET (IN.)	BODY	STRAINER	MODEL NUMBER	MODEL NUMBER	REMARKS
FD-1	3	CAST IRON	6" NICKEL BRONZE	ZURN	Z415B	1-2

EVAPORATOR UNIT SCHEDULE																				
UNIT MARK	UNIT QTY.	ARG. SERVED	SYSTEM CIRCUIT	REFRIGERANT			DESIGN CONDITIONS			ELECTRICAL DATA				APPROX. WEIGHT (LBS)		BASIS OF DESIGN		REMARKS		
				TYPE	LIQUID (°F)	SUCTION (°F)	LIQUID (°F)	SUCTION (°F)	COND. INCH.	V	φ	Hz	BAL.	WOL.	WOPF	WU/FAC/REF.	MODEL			
EU-1	2	COOLER #134	SYSTEM A	R-448A	35	25	1/2	7/8	3/4 x 1/4	NPT	120	1	60	0.6	15	20	47	CO2/DOME	CL460604DEL	1-4
EU-2	2	PREHEATER #135	SYSTEM B	R-448A	-10	-20	1/2	7/8	3/4 x 1/4	NPT	206	1	60	0.14	15	20	52	CO2/DOME	CL460604DEL	1-4
EU-3	2	COOLER #136	SYSTEM C	R-448A	35	25	1/2	7/8	3/4 x 1/4	NPT	206	1	60	0.14	15	20	47	CO2/DOME	CL460604DEL	1-4
EU-4	1	COOLER #137	SYSTEM D	R-448A	55	40	1/2	1-1/8	3/4 x 1/4	NPT	120	1	60	2.4	15	20	100	CO2/DOME	CW412004A	1-4
EU-5	1	PREHEATER #138	SYSTEM E	R-448A	-10	-20	1/2	1-1/8	3/4 x 1/4	NPT	206	1	60	1.4	15	20	62	CO2/DOME	CL460604DEL	1-4
EU-6	2	PREHEATER #131	SYSTEM F	R-448A	-10	-20	1/2	1-1/8	3/4 x 1/4	NPT	206	1	60	11.4	15	20	52	CO2/DOME	CL460604DEL	1-4
EU-7	2	COOLER #132	SYSTEM G	R-448A	35	25	1/2	1-1/8	3/4 x 1/4	NPT	206	1	60	1.6	15	20	52	CO2/DOME	CL460704DEL	1-4
EU-8	2	COOLER #101	SYSTEM H	R-448A	35	25	1/2	1-1/8	3/4 x 1/4	NPT	206	1	60	1.6	15	20	58	CO2/DOME	CL461170DEL	1-4
EU-9	2	PREHEATER #102	SYSTEM I	R-448A	-10	-20	1/2	1-1/8	3/4 x 1/4	NPT	206	1	60	11.4	15	20	58	CO2/DOME	CL460904DEL	1-4
EU-10	2	PREHEATER #133	SYSTEM J	R-448A	-10	-20	1/2	1-1/8	3/4 x 1/4	NPT	206	1	60	11.4	15	20	58	CO2/DOME	CL460904DEL	1-4
EU-11	4	PREHEATER #134	SYSTEM L	R-448A	-10	-20	1/2	1-3/8	3/4 x 1/4	NPT	206	1	60	11.4	15	20	62	CO2/DOME	CL461050DEL	1-4

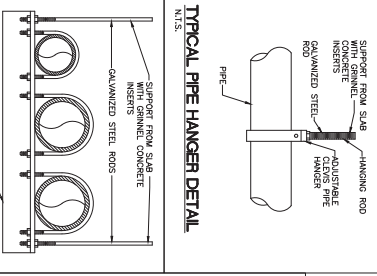
PRICE/CYANT	EVAPORATOR UNIT SCHEDULE
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AIR COOLED REFRIGERATION PACK SCHEDULE												
UNIT IDENTIFICATION	EVAPORATOR SYSTEM OR SERVICE	TOTAL LOAD (tonn)	COMPRESSOR	V	φ	HZ	R/A	MOA	MOCP	APPROX OPERATING WEIGHT (LBS)	DATE OF DESIGN	REMARKS
CU-1	SYSTEM A	15.0	ZS19K4E									
	SYSTEM B	15.1	ZT19K4E									
	SYSTEM C	15.0	ZS19K4E									
	SYSTEM D	22.5	ZS19K4E	208	3	60	126.4	13.4	150	3,793	COLLOZONE	ET-5H
	SYSTEM E	22.8	ZT25K4E									
CU-2	SYSTEM F	22.8	ZT25K4E									
	SYSTEM G	17.8	ZS19K4E									
	SYSTEM H	26.0	ZS21K4E									
	SYSTEM J	18.4	ZT19K4E									
	SYSTEM K	22.8	ZT25K4E	208	3	60	126.7	13.7	150	3,891	COLLOZONE	ET-5H
	SYSTEM L	22.7	ZMA278K4E									

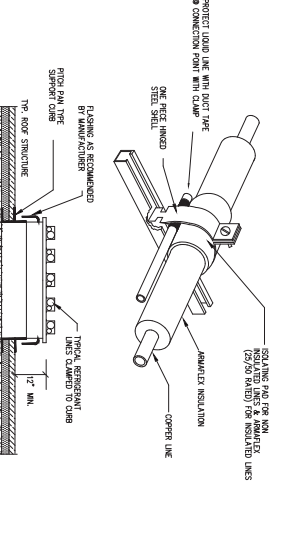
AIR COOLED REFRIGERATION PACK SCHEDULE



EVAPORATOR FAN COIL INSIDE FREEZER TYPICAL MOUNTING DETAIL
N.T.S.



TYPICAL PIPE HANGER DETAIL
N.T.S.



REFRIGERANT LINE SUPPORT DETAIL

1. THESE DRAWINGS ARE INTENDED TO COMPLY WITH: SEE ADDITIONAL COMPLIANCE NOTES.
2. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE OF THE MINOR ITEMS, UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITING

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BUILDING DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BUILDING DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BUILDING DURING THE CONSTRUCTION PERIOD.

1. THESE ENGINEERING DOCUMENTS AND THE RESULTING INSTALLATION OF THE DEPICTED HVAC SYSTEMS FOR THE PROJECT ARE INTENDED TO CONFORM TO THE FOLLOWING CODES AND STANDARDS:

1. FLOOR BUILDING CODE (MCCMACH, 1ST EDITION (2017))
 2. FLOOR BUILDING CODE (MCCMACH, 2ND EDITION (2017))
 3. FLOOR BUILDING CODE (MCCMACH, 3RD EDITION (2017))
 4. ASHRAE 62-1 2009 – RESIDENTIAL, DUCT SYSTEMS
 5. ASHRAE 62-1 2010 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
 6. ASHRAE 55-2010 THERMAL ENVIRONMENT FOR HUMAN OCCUPANCY
 7. ASHRAE 90-1 – LEAD SAFETY CODE CONSTRUCTION AND VENTILATION SYSTEMS
 8. ASHRAE 90-1.1 – LEAD SAFETY CODE CONSTRUCTION AND VENTILATION SYSTEMS
 9. SMACNA 011 FIBROUS GLASS CONSTRUCTION STANDARDS METAL AND THERMAFLEX
 10. UL181 2006 FIBROUS GLASS DUCTS AND AIR CONTAINERS
- IF WORK IS LAB OUT, MODIFIED OR SPECIFIED IS COMPARISON TO THE LISTED CODES AND STANDARDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHOWN A LETTER OF EQUIVALENCY TO THE BUILDING OFFICER. THE BUILDING OFFICER SHALL BE REQUIRED TO USE THE MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, AND MAINTENANCE PROCEDURES TO BE FOLLOWED BY THE CONTRACTOR. THE BUILDING OFFICER SHALL BE REQUIRED TO USE THE MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, AND MAINTENANCE PROCEDURES TO BE FOLLOWED BY THE CONTRACTOR. THE BUILDING OFFICER SHALL BE REQUIRED TO USE THE MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, AND MAINTENANCE PROCEDURES TO BE FOLLOWED BY THE CONTRACTOR.

1.0. GENERAL

A. ALL EQUIPMENT AND MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

- [illegible]

1.10. EVAPORATOR UNIT COOLER
A. EVAPORATOR UNIT COOLER SHALL BE THE PURCHASER THERE. FLOW UNIT COOLER
FOR UNIFORM CONDENSER REFRIGERANT PRESSURES ABOVE 265 PSIG AND OF
WHEN PRESSURE DROPS BELOW 140 PSIG FOR OPERATION TO -10 DEGREES F.

- [illegible]

E. MINIMUM CLEARANCES ON DRAWING SHEET M101, NOTES 9, 10 & 11 SHALL BE:

- [illegible]



