

Pembroke Pines Parks – HVAC Replacement Re-bid

Invitation for Bids #RE-24-07

General Information		
Project Cost Estimate	\$242,000	See Section 1.4
Project Timeline	90 calendar days from NTP with an estimated start date of November 2024.	See Section 1.4
Evaluation of Proposals	Staff	See Section 1.7
Mandatory Pre-Bid Meeting	10:00 a.m. on August 20, 2024, at the Rose Price Park, located at 901 NW 208th Avenue, Pembroke Pines, FL 33029.	See Section 1.8
Question Due Date	August 26, 2024	See Section 1.8
Submissions will be accepted until	2:00 p.m. on September 10, 2024	See Section 1.8
Proposal Security / Bid Bond	<input type="checkbox"/> Not required. <input checked="" type="checkbox"/> Required only for bidders that have a total cumulative base proposal amount that exceeds \$200,000. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed. <input type="checkbox"/> Required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed. <input type="checkbox"/> Required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of \$10,000 or 5% of the total cumulative base amount proposed, whichever is less.	See Section 4.1
100% Payment and Performance Bonds	<input type="checkbox"/> Not required. <input type="checkbox"/> Required, regardless of the awarded contract amount. <input checked="" type="checkbox"/> Required in the event that the awarded contract, not including owner's contingency, exceeds \$200,000.	See Section 4.2
Grant or Federal Funding Information	Not Applicable.	See Section 1.2

THE CITY OF PEMBROKE PINES
PROCUREMENT DEPARTMENT
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020



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ATTACHMENTS

- Attachment A: Sample Insurance Certificate
- Attachment B: Standard Release of Lien Form
- Attachment C: Specimen Contract - **Construction Agreement**
- Attachment D: Rose Price Park - Plans / Drawings
- Attachment E: Town Gate Park - Plans / Drawings
- Attachment F: Club 19 - Plans / Drawings
- Attachment G: Golf Pro Shop - Plans / Drawings



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 # RE-24-07
Pembroke Pines Parks – HVAC Replacement Re-bid**

Solicitations may be obtained from the City of Pembroke Pines website at <https://www.ppin.es.com/667/Current-Bids> and on the <https://procurement.opengov.com/portal/pembrokepines> website.

If you have any problems downloading the solicitation, please contact OpenGov Support at <https://opengov.my.site.com/support/s/contactsupport>.

If additional information help is needed with downloading the solicitation package, please contact the Procurement Department at (954) 518-9020 or by email at purchasing@ppines.com. The Procurement Department 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 City's e-procurement Portal, located at <https://procurement.opengov.com/portal/pembrokepines>. Please note the deadline for submitting inquiries will be posted on each solicitation. All answers to inquiries will be posted on the City's e-Procurement Portal. Bidders may also click "Follow" on bids to receive email notifications when answers are posted. It is the responsibility of the bidder to check the website for answers to inquiries. Such request(s) must be received by the "Question Due Date" stated in the solicitation. The issuance of a response via OpenGov is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Submittals will be accepted until 2:00 p.m., Tuesday, September 10, 2024. Proposals must be **submitted electronically at** <https://procurement.opengov.com/portal/pembrokepines>. The sealed electronic submittals 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

The bid opening for this project will be held in the **City Clerk's Office Conference Room** located on the 4th Floor in the Charles F. Dodge City Center/City Hall Administration Building at 601 City Center Way, Pembroke Pines, Florida, 33025 at **2:30 PM on the bid due date.**



In light of public health concerns and to ensure accessibility for all, the City encourages interested parties, vendors, and the public to participate virtually via live streaming instead of attending the meeting in person. To virtually attend the bid opening, please use the Cisco Webex Meetings platform.

Virtual Meeting Details:

- **WebEx Meeting Link:** <https://ppines.webex.com/meet/purchasing>
- **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 ensure an efficient meeting process, participants are requested to mute their audio and camera during the meeting. While the public is welcome to attend the virtual bid opening, **please note that active participation and commenting will not be allowed during the proceedings.**

For further information about the bid opening or assistance in accessing the virtual meeting, please contact:

Danny Benedit or other Procurement Staff in the Procurement Department
City of Pembroke Pines
8300 South Palm Drive,
Pembroke Pines, FL 33025
954-518-9022 or 954-518-9020
purchasing@ppines.com

1.2 PURPOSE

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, to replace HVAC systems at several Pembroke Pines parks with Trane HVAC systems, in accordance with the terms, conditions, and specifications contained in this solicitation.

1.2.1 BACKGROUND / ABOUT THE CITY OF PEMBROKE PINES

Pembroke Pines, Florida, ranked as the eleventh largest city among the state's four hundred plus municipalities and the second largest in Broward County, maintains a welcoming small-town ambiance that resonates with its residents. Located conveniently in southwest Broward County, the city provides seamless access to major highways, employment centers, entertainment venues, parks, golf courses, and a diverse array of dining and shopping options.



With a population of approximately 170,000 residents spread across 32.68 square miles, Pembroke Pines is renowned as one of the best cities to live in America. The city boasts 28 superior parks, lush landscaping, and a distinctive South Florida charm that contributes to its natural beauty. Notably recognized as 2024's Best Place to Raise a Family in Florida, and 2014's Best City of Hispanic Entrepreneurs by WalletHub, Pembroke Pines also earned a place as the on-Money Magazine's esteemed Best Places to Live list in 2014, as the sole Florida representative, ranking in at #32 in the nation.

Incorporated in 1960, Pembroke Pines is celebrated as a safe and desirable community, having received accolades such as the All-America City designation. The city's commitment to arts and culture, exceptional schools, diverse population, numerous parks, and forward-thinking approach in an ever-evolving world make it a standout destination.

Pembroke Pines is also the home to the largest municipal-run charter school system in the nation, serving over 6,000 students across five separate campuses. The City's award-winning charter school system is located in the Broward County School District, which is the sixth largest school district in the nation.

1.3 SCOPE OF WORK

1.3.1 PROJECT DETAILS

- Contractor is responsible for removing existing HVAC systems and installing new HVAC systems to match existing systems specifications and ratings as per the attached drawings.
- Contractor shall provide any new condensate piping, electrical connections, curbs, ductwork, insulation, dryers, labor, and materials as necessary.
- Contractor shall provide any new CU and AHU disconnects as per attached drawings.
- Contractor is responsible for any supports or stands that the units may require.
- Contractor to provide submittals to the City's Project Manager for review and approval prior to installation.
- **A/C equipment shall be Trane.**
- Contractor to provide fully coated coils for extended life.
- New units shall be rated in accordance with AHRI standards and have proper labeling. Units to be stored and handled as per manufacturer's recommendations.
- **Contractor to provide full start up service by Trane Certified BAS tech to provide complete communication with city's Trane monitoring system.**
- Contractor shall inspect indoor refrigerant lines insulation and replace as needed.
- Contractor shall provide new insulation for outdoor refrigerant lines with UV protection coat.
- Contractor shall provide new drain pans for all units.
- Contractor to provide five (5) year warranty for all compressors and coils.



- Contractor to provide a full test and balance report for the building and all related equipment, at the completion of the project to assure proper system functioning.
- Contractor is responsible for acquiring all necessary permits for the job and required documentation for such. City will only provide the attached drawings.
- Contractor will not be required to pay permit fees as this is a City project.
- Contractor is responsible for all finishes to include drywall & concrete repair, painting, flooring, trim work associated with this work and shall leave all work areas in the same or better condition than they were originally.

1.3.2 GENERAL REQUIREMENTS

- Contractor should plan for possible weekend work, as necessary, due to scheduling complications with facility.
- The minimum experience required as a licensed General Contractor is five (5) years for these projects.
- Contractor shall provide all materials, labor, equipment, and any other necessary items required for complete turn-key installation.
- City shall provide the Contractor with permit ready plans. All other documents, plans, submittals, and NOA's required to obtain a permit are to be provided by the contractor.
- Contractor shall provide all testing, manufacturer warranties, contractor warranties, and certifications.
- All items must be installed as per all governing code requirements.
- The successful Bidder shall employ a competent English-speaking 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 responsible for all debris removal and restoration to any existing areas damaged by the contractor once the project is completed. Site shall be made safe as per OSHA standard, 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.
- Contractor is responsible for the removal and reinstallation of fencing, landscaping, concrete, and any other items as necessary to access the work areas. Contractor is allowed to set up temporary container for storage.
- Contractor is responsible for acquiring all necessary permits.
- The work must be performed Monday through Friday from 8am to 5pm or as approved by the Project Manager.



- Contractor shall provide weekly schedule/progress updates.

1.3.3 LOCATIONS

- **Rose Price Park**
901 NW 208th Avenue, Pembroke Pines, FL 33029
- **Town Gate Park**
901 NW 155th Avenue, Pembroke Pines, FL 33028
- **Club 19**
10500 Taft Street, Pembroke Pines, FL 33026
- **Golf Pro Shop**
10500 Taft Street, Pembroke Pines, FL 33026

1.3.4 WARRANTIES

- Contractor shall provide a minimum (1) year workmanship labor and material warranty.
- Upon completion of the project, and with their application instructions and specifications strictly adhered to, the contractor shall provide a written minimum (5) year product warranty from the manufacturer.

1.3.5 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.

1.4 PROJECT COST ESTIMATE & TIMELINE

Staff estimates this project to cost approximately \$242,000, which does not include permit costs.

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.**



The work shall be completed within 90 days from issuance of CITY's Notice to Proceed, with an estimated start date of November 2024.

In addition, please note the city's average time for a contractor to apply for and receive an approved permit is 30 days; delays in this timeline caused by the contractor's failure to actively monitor the permit process and submit all required documentation in a timely manner, will count against the project's contractual completion period.

1.4.1 PERMIT, LICENSE, IMPACT OR INSPECTION FEES

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.

1.4.2 LIQUIDATED DAMAGES

Liquidated damages for this project shall be \$500 per day.

1.5 PROPOSAL REQUIREMENTS

The <https://procurement.opengov.com/portal/pembrokepines> website allows for vendors to complete, scan and upload their documents as part of the proposer'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 the requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged.

1.5.1 PROJECT COST: PRICING / BID TABLE(S)

1. **Bid Table:** The vendor must provide their pricing through the designated lines items listed on the pricing table that is available on the OpenGov website. Please follow the instructions given in this package and the website to enter the information on the OpenGov website.
2. The bid tables includes a "Vendor Notes" column for any additional comments regarding the requested line item(s). A comment is preferred in the "Vendor Notes" column. If the vendor does not need to submit any comments, they may leave it blank or enter N/A or similar.
3. **Primary Responses:** The primary responses table is for the vendor's to submit the requested goods and/or services.



a. If the total cumulative base proposal amount does not exceed \$200,000 and a Payment and Performance Bond is not required, please enter “0” on the “If Applicable, Cost for Payment and Performance Bond” column for each line item.

b. Below is a sample of the “Primary Responses” tab of the Bid Table:

PRIMARY RESPONSES Export This Table ▾

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Vendor Notes
1.	Rose Price Park HVAC Replacement Project	1	lump sum				
2.	Town Gate Park HVAC Replacement Project	1	lump sum				
3.	Club 19 HVAC Replacement Project	1	lump sum				
4.	Golf Pro Shop HVAC Replacement Project	1	lump sum				
5.	Cost for Payment & Performance Bond	1	lump sum				
Total					\$0.00		

4. **Additional Responses:** This Bid Table allows for bidders to submit alternative options. Substitutions of brands or products must be submitted as an alternative for the City’s review and approval.

a. To submit an alternative, the vendor must list the name or part number of the proposed alternate in the respective part’s row under the “Vendor Notes” column.

b. We request vendors to identify the substitution of brands or products in the “Vendor Notes” column.

c. For additional information on uploading supporting documentation for the proposed alternative(s), please refer to **Section 1.5.2(3)**.

d. Below is a sample of the “Additional Responses” tab of the Bid Table:

ADDITIONAL RESPONSES Export This Table ▾

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Vendor Notes
1.	Rose Price Park HVAC Replacement Project	1	lump sum				
2.	Town Gate Park HVAC Replacement Project	1	lump sum				
3.	Club 19 HVAC Replacement Project	1	lump sum				
4.	Golf Pro Shop HVAC Replacement Project	1	lump sum				
5.	Cost for Payment & Performance Bond	1	lump sum				
Total					\$0.00		



1.5.2 SUBMITTAL DOCUMENTS

1. Project Documents

a. Proposer's Background Information

- b. **References Form:** Provide specific examples of similar contracts delivered by the proposed team members. Provide details on related projects (preferably where the team was the same). A minimum of 3 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. In this section you will have the ability to enter information for 5 different references including the Reference Contact Information and the specific Project Information.

In addition, the City recommends for proposers to list references that are not current City of Pembroke Pines employees as the City does not generally contact its own current employees for reference checks.

A) References Contact Information

- a. Name of Firm, City, County or Agency
- b. Address
- c. Contact Name
- d. Contact Title
- e. Contact E-mail Address
- f. Contact Telephone #

B) Project Information

- a. Name of Contractor Performing the work
- b. Name and location of the project
- c. Nature of the firm's responsibility on the project
- d. Project duration
- e. Completion (Anticipated) Date
- f. Size of project
- g. Cost of project
- h. Work for which staff was responsible

c. 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 OpenGov.
- 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 #RE-24-07 Pembroke Pines Parks – HVAC Replacement Re-bid**" 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 document for additional information.

2. Standard Documents

The following documents are standard documents that the City generally requires for every solicitation. As a result, we recommend vendors to keep these documents updated and readily available so that they can be easily uploaded for each project that the vendor would like to participate in. In the event that the City does not have one of the forms or documents listed below for your company, the City may reach out to your company after the bid has closed to obtain the document(s). Please upload the following documents to the SUBMITTAL DOCUMENTS section:

- a. Non-Collusive Affidavit**
- b. Sworn Statement on Public Entity Crimes Form**
- c. Equal Benefits Certification Form**
- d. Vendor Drug-Free Workplace Certification Form**
- e. Scrutinized Company Certification**



f. E-Verify System Certification Statement

- i. Effective January 1, 2021, pursuant to Section 448.095, Florida Statutes, the City may not enter into a contract with a vendor/contractor/subcontractor unless that vendor/contractor/subcontractor is registered with and uses the E-Verify system administered by the U.S. Department of Homeland Security (“DHS”).
- ii. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

g. Veteran Owned Small Business Preference Certification

- i. 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).
- ii. 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.

h. Local Vendor Preference Certification

i. Local Business Tax Receipts

j. Anti-Human Trafficking Affidavit

3. Optional Documentation

3.1. Trade Secrets

- a. The Proposer’s response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 (“Public Records Law”). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.



- b. Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.
- c. EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE OPENGOV WEBSITE AS A SEPARATE ATTACHMENT, IN THIS SECTION, CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.
- d. The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

3.2. Financial Documents

- a. The City is **not** requesting the vendor to submit any financial statements for this project and prefers if the vendor does not submit financial statements. In addition, if the City needs a copy of the vendor's financial statements, the City can contact the vendor after the bid due date to request those documents. However, if the vendor does submit the financial statements, they should be uploaded in this section.
- b. Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please



note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a “public works” project.

3.3. Alternatives

- a. If you are submitting an alternative product, please upload any related information in this section (such as specification sheets, etc.).
- b. In addition, pursuant to **Section 3.7 “Brand Names,”** if and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase “OR EQUAL” is added. However, if a product other than that specified is bid, Proposers shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the vendor’s responsibility to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

3.4. Additional Information

- a. Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.

1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

1.7.1 QUALIFYING & SELECTING FIRMS

1. 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 and references contained in the proposals as submitted.
2. Staff will make a recommendation to the City Commission for award of contract.

1.8 TENTATIVE SCHEDULE OF EVENTS



Event	Time &/or Date
Issuance of Solicitation (Posting Date)	August 7, 2024
Mandatory Pre-Bid Meeting	10:00 a.m. on August 20, 2024
Question Due Date	August 26, 2024
Anticipated Date of Issuance for the Addenda with Questions and Answers	August 29, 2024
Proposals will be accepted until	2:00 p.m. on September 10, 2024
Proposals will be opened at	2:30 p.m. on September 10, 2024
Evaluation of Proposals by Staff	TBD
Recommendation of Contractor to City Commission award	TBD
Issuance of Notice to Proceed	TBD
Project Commencement	Not later than 10 days after NTP
Project Completion	90 days after NTP

1.8.1 PRE-BID MEETING(S)

1. Mandatory Pre-Bid Meeting:

There will be a mandatory scheduled pre-bid meeting on **August 20, 2024, at 10:00 a.m.** Meeting location will be at the **Rose Price Park, located at 901 NW 208th Avenue, Pembroke Pines, FL 33029.** As part of the meeting, the City’s project manager will take the Contractors to the various sites:

- **Town Gate Park 901 NW 155th Avenue, Pembroke Pines, FL 33028**
- **Club 19 10500 Taft Street, Pembroke Pines, FL 33026**
- **Golf Pro Shop 10500 Taft Street, Pembroke Pines, FL 33026**

- a. **Follow-Up Meetings:** In the event that a contractor cannot attend the scheduled pre-bid meeting, or if a contractor would like a follow up visit to the site, they may request a site visit by contacting Phibe Wallace at 954-743-1434. We urge all contractors to attend the scheduled meeting, as a **separate or follow-up meeting may not be afforded** to the requester due to scheduling and availability of staff to assist with any additional meetings. In addition, if making a request for a separate or follow-up meeting, contractors are urged to make these requests as early as possible.
- b. **Proof of Attendance:** Contractors may be required to sign-in at any of the meetings to show proof of attendance. It is the vendor’s responsibility to make sure that they sign in at the meeting.

1.9 SUBMISSION REQUIREMENTS



Bids/proposals **must be submitted electronically** at <https://procurement.opengov.com/portal/pembrokepines> on or before 2:00 p.m. on September 10, 2024.

Please note vendors should be registered on OpenGov 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.

In addition, the vendor must complete any required fields and documents on the <https://procurement.opengov.com/portal/pembrokepines> website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded.

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 <https://procurement.opengov.com/portal/pembrokepines>. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. OpenGov 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 <https://opengov.my.site.com/support/s/contactsupport> 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 # RE-24-07 Pembroke Pines Parks – HVAC Replacement Re-bid**” and sent to the City of Pembroke Pines, City Clerk’s Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.



SECTION 2 - INSURANCE REQUIREMENTS

2.1 INDEMNIFICATION:

Yes No

2.1.1 General Indemnification: The CONTRACTOR shall indemnify and hold harmless the CITY and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the CITY or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the CONTRACTOR or its employees, agents, servants, partners, principals or subcontractors. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorneys' fees which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

Yes No

2.1.2 Indemnification for Design Professionals and Construction Contracts: The CONTRACTOR shall indemnify and hold harmless the CITY, its officers and employees from any and all liability, losses or damages, including reasonable attorneys' fees and costs of defense, which the CITY, its officers and employees, may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature to the extent such claims are caused by negligence, recklessness, or intentional wrongful conduct of the CONTRACTOR and other persons employed or utilized by CONTRACTOR during performance of this Agreement. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorneys' fees which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

2.2 CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on any subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.

2.3 Certificates of Insurance, reflecting evidence of the required insurance, shall be filed with the CITY's Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company



shall be rated no less than “A” as to management, and no less than “Class VI” as to financial strength according to the latest edition of Best’s Insurance Guide published by A.M. Best Company.

2.4 Certificates of Insurance shall provide for thirty (30) days’ prior written notice to the CITY in case of cancellation or material changes in the policy limits or coverage states. If the carrier cannot provide thirty (30) days’ notice of cancellation, either the CONTRACTOR or their Insurance Broker must agree to provide notice.

2.5 Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, the CONTRACTOR shall furnish, at least forty-five (45) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall neither commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

2.6 REQUIRED INSURANCE

CONTRACTOR shall be required to obtain all applicable insurance coverage, as indicated below, prior to commencing any work pursuant to this Agreement:

Yes No

✓ 2.6.1 Comprehensive General Liability Insurance written on an occurrence basis including, but not limited to: coverage for bodily injury and property damage, personal & advertising injury, products & completed operations, and contractual liability. Coverage must be written on an occurrence basis, with limits of liability no less than:

- 1. Each Occurrence Limit - \$1,000,000
- 2. Fire Damage Limit (Damage to rented premises) - \$100,000
- 3. Personal & Advertising Injury Limit - \$1,000,000
- 4. General Aggregate Limit - \$2,000,000
- 5. Products & Completed Operations Aggregate Limit - \$2,000,000

Products & Completed Operations Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement. *(For Construction projects: Increase to ten (10) years and include a Designated Construction Project(s) General Aggregate Limit)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.



Yes No

✓ 2.6.2 Workers' Compensation and Employers' Liability Insurance covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and all subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:

- 1. Workers' Compensation: Coverage A – Statutory
- 2. Employers Liability: Coverage B \$500,000 Each Accident
\$500,000 Disease – Policy Limit
\$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

Yes No

✓ 2.6.3 Comprehensive Auto Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the performance of work under this Agreement, with a combined single limit of liability for bodily injury and property damage no less than:

- 1. Any Auto (Symbol 1)
Combined Single Limit (Each Accident) - \$1,000,000
- 2. Hired Autos (Symbol 8)
Combined Single Limit (Each Accident) - \$1,000,000
- 3. Non-Owned Autos (Symbol 9)
Combined Single Limit (Each Accident) - \$1,000,000

If work under this Agreement includes transportation of hazardous materials, policy shall include pollution liability coverage equivalent to that provided by the latest version of the ISO pollution liability broadened endorsement for auto and the latest version of the ISO Motor Carrier Act endorsement, equivalents or broader language.

Yes No

2.6.3.1 If CONTRACTOR requests reduced limits under a Personal Auto Liability Policy and it is agreed to by the CITY, coverage shall include Bodily Injury limits of \$100,000 per person/\$300,000 per occurrence and Property Damage limits of \$300,000 per occurrence

Yes No

✓ 2.6.4 Umbrella/Excess Liability Insurance in the amount of **\$2,000,000.00** as determined appropriate by the CITY depending on the type of job and exposures contemplated. Coverage must be follow form of the General Liability, Auto Liability and Employer's



Liability. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

2.6.5 Environmental/Pollution Liability insurance shall be required with a limit of no less than \$1,000,000 per wrongful act. Coverage shall include: CONTRACTOR’s completed operations, sudden, accidental and gradual pollution conditions. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

2.6.6 Cyber Liability including Network Security and Privacy Liability with a limit of liability no less than \$1,000,000 per loss. Coverage shall include liability arising from: theft, dissemination and/or use of confidential information stored or transmitted in electronic form, unauthorized access to, use of, or tampering with computer systems, including hacker attacks or inability of an authorized third party to gain access to your services, including denial of service, and the introduction of a computer virus into, or otherwise causing damage to, a customer’s or third person’s computer, computer system, network, or similar computer-related property and the data, software and programs thereon. If vendor is collecting credit card information, it shall cover all PCI breach expenses. Coverage is to include the various state monitoring and state required remediation as well as meet the various state notification requirements. This coverage shall be maintained for a period of no less than the later of three (3) years after delivery of goods/services or final payment of the Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

2.6.7 Crime Coverage shall include employee dishonesty, forgery or alteration, and computer fraud in an amount of no less than \$1,000,000 per loss. If CONTRACTOR is physically located on CITY’s premises, a third-party fidelity coverage extension shall apply.



Yes No

- * 2.6.8 Garage Liability & Garage-keepers Legal Liability for those that manage parking lots for the CITY or service CITY vehicles. Coverage must be written on an occurrence basis, with limits of liability no less than \$1,000,000 per Occurrence, including products & completed operations. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

- * 2.6.9 Liquor Liability for those in the business of selling, serving or furnishing of any alcoholic beverages, whether licensed or not, shall carry a limit of liability of no less than \$1,000,000 per occurrence. Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

- * 2.6.10 Sexual Abuse & Molestation for any agreement involving a vulnerable population. Limits shall be no less than \$500,000 per occurrence. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed.)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

- * 2.6.11 Builder’s Risk Insurance shall be “All Risk” for one hundred percent (100%) of the completed value of the project that is the subject of this Agreement with a deductible of not more than five percent (5%) for Named Windstorm and \$20,000 per claim for all other perils. The Builder’s Risk Insurance shall include interests of the CITY, the CONTRACTOR and subcontractors of the project. The CONTRACTOR shall include a separate line item for all costs associated with the Builder’s Risk Insurance Coverage for the project. The CITY reserves the right at its sole discretion to utilize the CONTRACTOR’s Builder’s Risk Insurance or for the CITY to purchase its own Builder’s Risk Insurance for the Project. Prior to the CONTRACTOR purchasing the Builder’s Risk insurance for the project, the CONTRACTOR shall allow the CITY the opportunity to



analyze the CONTRACTOR’s coverage and determine who shall purchase the coverage. Should the CITY utilize the CONTRACTOR’s Builder’s Risk Insurance, the CONTRACTOR shall be responsible for all deductibles. If the CITY chooses to purchase the Builder’s Risk Coverage on the project, the CONTRACTOR shall provide the CITY with a change order deduct for all premiums and costs associated with the Builder’s Risk insurance in their schedule. Should the CITY choose to utilize the CITY’s Builder’s Risk Program, the CITY shall be responsible for the Named Windstorm Deductible and the CONTRACTOR shall be responsible for the All Other Perils Deductible.

If and when 100% is not available or reasonable, the CITY Risk Manager is to make the determination as to what limits are appropriate for the given project.

Yes No

2.6.12 Other Insurance

2.7 REQUIRED ENDORSEMENTS

- 2.7.1 The City of Pembroke Pines shall be named as an Additional Insured on each of the Liability Policies required herein.
- 2.7.2 Waiver of all Rights of Subrogation against the CITY.
- 2.7.3 Thirty (30) Day Notice of Cancellation or Non-Renewal to the CITY.
- 2.7.4 CONTRACTOR’s policies shall be Primary & Non-Contributory.
- 2.7.5 All policies shall contain a “severability of interest” or “cross liability” clause without obligation for premium payment of the CITY.
- 2.7.6 The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.

2.8 Any and all insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

2.9 The CITY reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Agreement.

2.10 The insurance requirements specified in this Agreement are minimum requirements and in no way reduce any liability the CONTRACTOR has assumed in the indemnification/hold harmless section(s) of this Agreement.



SECTION 3 - GENERAL TERMS & CONDITIONS

3.1 EXAMINATION OF CONTRACT DOCUMENTS

Before submitting a Proposal, each Proposer should (a) consider federal, state and local laws, ordinances, rules and regulations that may in any manner affect cost or performance of the work, (b) study and carefully correlate the Proposer's observations with the Proposal Documents; and (c) notify the Purchasing Manager of all conflicts, errors and discrepancies, if any, in the Proposal Documents.

The Proposer, by and through the submission of a Proposal, agrees that Proposer shall be held responsible for having familiarized themselves with the nature and extent of the work and any local conditions that may affect the work to be done and the services, equipment, materials, parts and labor required.

3.2 CONFLICT OF INSTRUCTIONS

If a conflict exists between the General Conditions and Instructions stated herein and specific conditions and instructions contained in specifications, the specifications shall govern.

3.3 ADDENDA or ADDENDUM

A formal solicitation may require an Addendum to be issued. An addendum in some way may clarify, correct or change the original solicitation (i.e. due date/time, specifications, terms, conditions, line item). Vendors submitting a proposal should check the OpenGov website for any addenda issued. Vendors are cautioned not to consider verbal modifications to the solicitation, as the addendum issued through OpenGov will be the only official method whereby changes will be made.

3.4 INTERPRETATIONS AND QUESTIONS

If the Proposer is in doubt as to the meaning of any of the Proposal Documents, is of the opinion that the Conditions and Specifications contain errors or contradictions or reflect omissions, or has any question concerning the conditions and specifications, the Proposer shall submit a question for interpretation or clarification.

The City requires all questions relating to the solicitation be submitted through the City's e-Procurement Portal on the <https://procurement.opengov.com/portal/pe/mbrokepines> website for the specific project. Please note the deadline for submitting inquiries. All answers to inquiries will be posted on the City's e-Procurement Portal. Bidders may also click "Follow" on this solicitation to receive an email notification(s) when answers are posted. It is the responsibility of the bidder to check the website for answers to inquiries. The issuance of a response via the e-Procurement Portal is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

OpenGov Support is also available to assist proposers with submitting their proposal and to ensure that proposers are submitting their proposals correctly. Proposers should ensure that they contact OpenGov support at <https://procurement.opengov.com/portal/pe/mbrokepines> with ample time before the bid closing date and time.

For all other questions related to this solicitation, please contact the Purchasing Department at purchasing@ppines.com.

3.5 RULES, REGULATIONS, LAWS, ORDINANCES and LICENSES

The awarded contractor shall observe and obey all laws, ordinances, rules, and regulations of the federal, state, and CITY, which may be applicable to the service being provided. The awarded firm shall have or be responsible for obtaining all necessary



permits or licenses required, if necessary, in order to provide this service.

Proposer warrants by submittal that prices quoted here are in conformity with the latest federal price guidelines, if any.

3.6 WARRANTIES FOR USAGE

Whenever a bid is sought, seeking a source of supply for a specified time for materials or service, the quantities or usage shown are estimated only. No guarantee or warranty is given or implied by the City as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for proposer's information only and will be used for tabulation and presentation of bid.

3.7 BRAND NAMES

If and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Proposers shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the **vendor's responsibility** to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

3.8 QUALITY

All materials used for the manufacture or construction of any supplies, materials, or equipment covered by this bid shall be new,

the latest model, of the best quality, and highest grade workmanship, unless otherwise noted.

3.9 SAMPLES

Samples, when requested, must be furnished before, or at the bid opening, unless otherwise specified, and delivered free of expense to the City and if not used in testing or destroyed, will upon request within thirty (30) days of bid award be returned at the proposer's expense.

3.10 ESTIMATED QUANTITIES

No guarantee is expressed or implied as to the total quantity of commodities/services to be purchased pursuant to this solicitation. Estimated quantities will be used for comparison and ranking purposes only. The City is not obligated to contract for a given amount of commodities/services subsequent to the award of this solicitation. The City reserves the right to issue separate purchase orders as needed, issue a blanket purchase order, and release partial quantities, or any combination of the preceding as deemed necessary by the City.

3.11 DEVELOPMENT COSTS

Neither the City nor its representatives shall be liable for any expenses incurred in connection with the preparation, submission or presentation of a Bid in response to this solicitation. All information in the Bid shall be provided at no cost to the City.

3.12 PRICING

Prices should be stated in units of quantity specified in the bidding specifications. In case of discrepancy in computing the amount of the bid, the unit prices quoted will govern.

Proposer warrants by virtue of bidding that prices, terms, and conditions quoted in his bid will be firm for acceptance for a period of ninety (90) days from date of bid opening



unless otherwise stated by the City or proposer.

3.13 DELIVERY POINT

All items shall be delivered F.O.B. destination, and delivery cost and charges included in the bid price. Failure to do so may be cause for rejection of bid.

3.14 TAX EXEMPT STATUS

The City is exempt from Florida Sales and Federal Excise taxes on direct purchase of tangible property.

3.15 CONTRACT TIME

By virtue of the submission of the Proposal, Proposer agrees and fully understands that the completion time of the work of the Contract is an essential and material condition of the Contract and that time is of the essence. The Successful Proposer agrees that all work shall be prosecuted regularly, diligently and uninterrupted at such rate of progress as will ensure full completion thereof within the time specified. Failure to complete the work within the time period specified shall be considered a default.

In addition, time will be of the essence for any orders placed as a result of this bid. Purchaser reserves the right to cancel such orders, or part thereof, without obligation if delivery is not made at the time(s) or place(s) specified.

3.16 COPYRIGHT OR PATENT RIGHTS

Proposer warrants that there have been no violations of copyrights or patent rights in manufacturing, producing, or selling other goods shipped or ordered as a result of this bid, and seller agrees to hold the purchaser harmless from any and all liability, loss or expense occasioned by such violation.

3.17 PUBLIC ENTITY CRIMES

“A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not

submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.”

The Public Entity Crime Affidavit Form, in the Vendor Registration module on the OpenGov website, includes documentation that shall be executed by an individual authorized to bind the Proposer. The Proposer further understands and accepts that any contract issued as a result of this solicitation shall be either voidable or subject to immediate termination by the City. In the event there is any misrepresentation or lack of compliance with the mandates of Section 287.133 or Section 287.134, respectively, Florida Statutes. The City in the event in such termination, shall not incur any liability to the Proposer for any goods, services or materials furnished.

3.18 CONFLICT OF INTEREST

The award of any contract hereunder is subject to the provisions of Chapter 112, Florida Statutes. Proposers must disclose with their Proposal the name of any officer, director, partner, proprietor, associate or agent who is also an officer or employee of CITY or any of its agencies. Further, all Proposers must disclose the name of any officer or employee of CITY who owns, directly or indirectly, an interest of five percent (5%) or more in the Proposer 's firm or any of its branches or affiliate companies.

3.19 FACILITIES



The City reserves the right to inspect the Proposer's facilities at any time with prior notice.

3.20 ENVIRONMENTAL REGULATIONS

CITY reserves the right to consider Proposer's history of citations and/or violations of environmental regulations in determining a Proposer's responsibility, and further reserves the right to declare a Proposer not responsible if the history of violations warrant such determination. Proposer shall submit with the Proposal, a complete history of all citations and/or violations, notices and dispositions thereof. The non-submission of any such documentation shall be deemed to be an affirmation by the Proposer that there are no citations or violations. Proposer shall notify CITY immediately of notice of any citation or violation that Proposer may receive after the Proposal opening date and during the time of performance of any contract awarded to Proposers.

3.21 SIGNATURE REQUIRED

All proposals must be signed with the firm name and by an officer or employee having authority to bind the company or firm by his signature. FAILURE TO PROPERLY SIGN PROPOSAL SHALL INVALIDATE SAME, AND IT MAY NOT BE CONSIDERED FOR AWARD.

The individual executing this Bid on behalf of the Company warrant to the City that the Company is authorized to do business in the State of Florida, is in good standing and that Company possesses all of the required licenses and certificates of competency required by the State of Florida and Broward County to provide the goods or perform the services herein described.

The signed bid shall be considered an offer on the part of the proposer or contractor, which offer shall be deemed accepted upon approval by the City Commission of the City of Pembroke Pines and in case of default on

the part of the proposer or contractor after such acceptance, the City of Pembroke Pines may take such action as it deems appropriate including legal action for damages or specific performance.

3.22 MANUFACTURER'S CERTIFICATION

The City of Pembroke Pines reserves the right to request from proposer separate manufacturer certification of all statements made in the proposal.

3.23 MODIFICATION OR WITHDRAWAL OF PROPOSAL

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 OpenGov website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals.

3.24 PUBLIC BID; BID OPENING AND GENERAL EXEMPTIONS

All submittals received by the deadline will be recorded, and will subsequently be publicly opened on the same business day at 2:30 p.m. at the office of the City Clerk, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

All Proposals received from Proposers in response to the solicitation will become the property of CITY and will not be returned to the Proposers. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of CITY. Proposers are requested to identify specifically any information contained in their Proposals which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, citing specifically the applicable exempting law.

Pursuant to Section 119.071 of the Florida Statutes, sealed bids, proposals, or replies received by a Florida public agency shall



remain exempt from disclosure until an intended decision is announced or until 30 days from the opening, whichever is earlier.

Therefore, proposers will not be able to procure a copy of their competitor's bids until an intended decision is reached or 30 days has elapsed since the time of the bid opening.

However, pursuant to Section 255.0518 of the Florida Statutes, when opening sealed bids that are received pursuant to a competitive solicitation for **construction or repairs on a public building or public work**, the entity shall:

- (a) Open the sealed bids at a public meeting.
- (b) Announce at that meeting the name of each bidder and the price submitted in the bid.
- (c) Make available upon request the name of each bidder and the price submitted in the bid.

For solicitations that are **not** for **“construction or repairs on a public building or public work”** the City shall not reveal the prices submitted in the bids until an intended decision is announced or until 30 days from the opening, whichever is earlier.

3.25 RESERVATIONS FOR REJECTION AND AWARD

The City of Pembroke Pines reserves the right to accept or reject any and all bids or parts of bids, to waive irregularities and technicalities, and to request rebids. The City also reserves the right to award a contract on such items(s) or service(s) the City deems will best serve its interests. All bids shall be awarded to the most responsive/responsible proposer, provided the (City) may for good cause reject any bid or part thereof. It further reserves the right to award a contract on a split order basis, or such combinations as shall best serve the interests of the City unless otherwise specified. No premiums, rebates or gratuities permitted, either with, prior to, or

after award. This practice shall result in the cancellation of said award and/or return of items (as applicable) and the recommended removal of proposer from bid list(s).

3.26 BID PROTEST

Any protests or challenges to this competitive procurement shall be governed by Section 35.38 of the City's Code of Ordinances.

3.27 INDEMNIFICATION

The Successful Proposer shall pay all claims, losses, liens, settlements or judgments of any nature whatsoever in connection with the subsequent indemnifications including, but not limited to, reasonable attorney's fees (including appellate attorney's fees) and costs.

CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of Successful Proposer under the indemnification agreement. Nothing contained herein is intended nor shall it be construed to waive City's rights and immunities under the common law or Florida Statute 768.28 as amended from time to time.

Additional indemnification requirements may be included under Special Terms and Conditions and/or as part of a specimen contract included in the solicitation package.

General Indemnification: To the fullest extent permitted by laws and regulations, Successful Proposer shall indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, harmless from any and all claims, damages, losses, liabilities and expenses, direct, indirect or consequential arising out of or in consequential arising out of or alleged to have arisen out of or in consequence of the products, goods or services furnished by or operations of the Successful Proposer or his subcontractors, agents, officers, employees



or independent contractors pursuant to or in the performance of the Contract.

Indemnification for Design Professionals and Construction Contracts: The Successful Proposer shall indemnify and hold harmless the CITY, its officers and employees, from any and all liability, losses or damages, including reasonable attorneys' fees and costs of defense, which the CITY, its officers and employees, may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature to the extent such claims are caused by the negligence, recklessness, or intentional wrongful conduct of the Successful Proposer and other persons employed or utilized by the Successful Proposer during performance of the resulting Agreement.

Patent and Copyright Indemnification: Successful Proposer agrees to indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, from all claims, damages, losses, liabilities and expenses arising out of any alleged infringement of copyrights, patent rights and/or the unauthorized or unlicensed use of any invention, process, material, property or other work manufactured or used in connection with the performance of the Contract, including its use by CITY.

3.28 DEFAULT PROVISION

In the case of default by the proposer or contractor, the City of Pembroke Pines may procure the articles or services from any other sources and hold the proposer or contractor responsible for any excess costs occasioned or incurred thereby.

The City shall be the sole judge of nonperformance, which shall include any failure on the part of the successful Proposer to accept the Award, to furnish required documents, and/or to fulfill any portion of the contract within the time stipulated. Upon default by the successful Proposer to meet any terms of this agreement, the City will notify the Proposer five (5) days (weekends

and holidays excluded) to remedy the default. Failure on the Contractor's part to correct the default within the required five (5) days shall result in the contract being terminated and upon the City notifying in writing the Contractor of its intentions and the effective date of the termination. The following shall constitute default:

- A. Failure to perform the Work required under the contract and/or within the time required or failing to use the subcontractor, entities and personnel as identified and set forth, and to the degree specified in the contract.
- B. Failure to begin the Work under this Bid within the time specified.
- C. Failure to perform the Work with sufficient Workers and equipment or with sufficient materials to ensure timely completion.
- D. Neglecting or refusing to remove materials or perform new Work where prior Work has been rejected as non-conforming with the terms of the contract.
- E. Becoming insolvent, being declared bankrupt, or committing act of bankruptcy or insolvency, or making an assignment renders the successful Proposer incapable of performing the Work in accordance with and as required by the contract.

F. Failure to comply with any of the terms of the contract in any material respect.

In the event of default of a contract, the successful Proposer shall pay all attorney's fees and court costs incurred in collecting any damages. The successful Proposer shall pay the City for any and all costs incurred in ensuing the completion of the project.

Additional provisions may be included in the specimen contract.

3.29 ACCEPTANCE OF MATERIAL

The material delivered under this proposal shall remain the property of the seller until a



physical inspection and actual usage of this material and/or services is made and thereafter accepted to the satisfaction of the City and must comply with the terms herein, and be fully in accord with specifications and of the highest quality. In the event the material and/or services supplied to the City are found to be defective or do not conform to specifications, the City reserves the right to cancel the order upon written notice to the seller and return product to seller at the sellers expense.

3.30 LOCAL GOVERNMENT PROMPT PAYMENT ACT

The City complies with Florida Statute 218.70, Local Government Prompt Payment Act.

3.31 SCRUTINIZED COMPANIES LIST

In accordance with Florida Statute 287.135, as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services of:

- (a) Any amount of, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725, or is engaged in a boycott of Israel; or
- (b) One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:
 - 1. Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473; or
 - 2. Is engaged in business operations in Syria.

By submitting a bid, proposal or response, the company, principals or owners certify that they are not listed on the Scrutinized Companies that boycott Israel List, Scrutinized Companies with activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or is engaged in business operations in Syria.

3.32 PUBLIC RECORDS; TRADE SECRET, PROPRIETARY AND CONFIDENTIAL SUBMITTALS

The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.

Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.



Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a “public works” project.

EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE OPENGOV WEBSITE AS A SEPARATE ATTACHMENT CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.

The city’s determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city’s officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city’s treatment of records as public records.

3.33 PURCHASING AGREEMENTS WITH OTHER GOVERNMENT AGENCIES

It is hereby made part of this solicitation that the submission of any bid response to this advertised request constitutes a bid made under the same or similar terms and conditions, for the same price, or better price, to other government agencies if agreeable by the proposer and the government agency.

At the option of the vendor/contractor, the use of the contract resulting from this

solicitation may be extended to other governmental agencies, including the State of Florida, its agencies, political subdivisions, counties, and cities.

Each governmental agency allowed by the vendor/contractor to use this contract shall do so independently of any other governmental entity. Each agency shall be responsible for its own purchases and shall be liable only for goods or services ordered, received, and accepted. No agency receives any liability by virtue of this bid and subsequent contract award.

3.34 CONE OF SILENCE

Prohibited Communication: In accordance with the Cone of Silence Ordinance, Section 35.40 of the City’s Code of Ordinances, during the course of a sealed competitive solicitation, a cone of silence shall be in effect between:

(1) Any person or entity that seeks a contract, contract amendment, award, recommendation, or approval related to a sealed competitive solicitation or that is subject to being evaluated or having its response evaluated in connection with a sealed competitive solicitation, including a person or entity’s representative; and

(2) The City Manager or any person or group of persons appointed or designated by the City Commission or the City Manager to evaluate, select, or make a recommendation to the City Commission or the City Manager regarding a sealed competitive solicitation, including any member of the selection/evaluation committee.

Effective Dates: A cone of silence shall be in effect during a sealed competitive solicitation process beginning upon the advertisement for the sealed competitive solicitation or during such other procurement activities as declared by the City Commission, and shall terminate at the time the City Commission takes final action or gives final approval of a contract, rejects all bids or responses to the sealed competitive



solicitation, or takes other action which ends the sealed competitive solicitation process.

Permitted Communication: The cone of silence shall not apply to:

(1) Written or oral communications with legal counsel for the city, the Procurement Department staff for the city, and the person or persons designated in the sealed competitive solicitation as the contact person for clarification or information related to the sealed competitive solicitation.

(2) Public presentations, asking questions, or providing feedback at pre-bid meetings, site visits or conferences or at a selection, evaluation or negotiation meeting related to the sealed competitive solicitation.

(3) Contract negotiations with the selected entity.

Violations: Any action in violation of this section shall be cause for disqualification of the bid or the proposal.

3.35 E-VERIFY

Contractor certifies that it is aware of and complies with the requirements of Section 448.095, Florida Statutes, as may be amended from time to time and briefly described herein below.

1) Definitions for this Section:

a) "Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

b) "Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

c) "E-Verify system" means an Internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

2) Registration Requirement; Termination:

Pursuant to Section 448.095, Florida Statutes, effective January 1, 2021, Contractors, shall register with and use the E-verify system in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a) All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b) All persons (including subvendors / subconsultants / subcontractors) assigned by Contractor to perform work pursuant to the contract with the City of Pembroke Pines. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of Pembroke Pines; and

c) The Contractor shall comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes, but is not limited to registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract. Failure to comply



will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination. Termination of this Contract under this Section is not a breach of contract and may not be considered as such. If this contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

3.36 JESSICA LUNSFORD ACT

Background screening requirements for Contractor's performing services for or at City's Charter Schools. (1) Except as provided in §§1012.467 or 1012.468, Florida Statutes, non-instructional school employees or contractual personnel who (i) are permitted access on school grounds when students are present, (ii) who have direct contact with students or, (iii) who have access to or control of school funds must meet level 2 screening requirements as described in §1012.32, Florida Statutes. Contractual personnel shall include any Contractor, individual, or entity under contract with the City engaged to perform services for or at City's Charter Schools.

(2) Every 5 years following employment or entry into a resulting contract in a capacity described in subsection (1), each person who is so employed or under contract with the City must meet level 2 screening requirements as described in §1012.32, Florida Statutes, at which time the City shall request the Department of Law Enforcement to forward the fingerprints to the Federal Bureau of Investigation for the level 2 screening. If, for any reason following employment or entry into a resulting

contract in a capacity described in subsection (1), the fingerprints of a person who is so employed or under contract with the City are not retained by the Department of Law Enforcement under §1012.32(3)(a) and (b), Florida Statutes, the person must file a complete set of fingerprints with the City. Upon submission of fingerprints for this purpose, the City shall request the Department of Law Enforcement to forward the fingerprints to the Federal Bureau of Investigation for the level 2 screening, and the fingerprints shall be retained by the Department of Law Enforcement under §1012.32(3)(a) and (b), Florida Statutes. The cost of the state and federal criminal history check required by level 2 screening shall be borne by the Contractor, or the person fingerprinted. Under penalty of perjury, each person who is employed or engaged to perform a resulting contract in a capacity described in subsection (1) must agree to inform his or her employer or the party with whom he or she is under contract within 48 hours if convicted of any disqualifying offense while he or she is employed or under a resulting contract in that capacity. (3) If it is found that a person who is employed or under contract in a capacity described in subsection (1) does not meet the level 2 requirements, the person shall be immediately suspended from working in that capacity and shall remain suspended until final resolution of any appeals.

3.37 PROHIBITION AGAINST CONSIDERING SOCIAL, POLITICAL OR IDEOLOGICAL INTERESTS IN GOVERNMENT CONTRACTING

Bidders are hereby notified of the provisions of section 287.05701, Florida Statutes, as amended, that the City will not request documentation of or consider a Bidder's social, political, or ideological interests when determining if the Bidder is a responsible Bidder. Bidders are further notified that the City's governing body may not give



preference to a Bidder based on the Bidder's social, political, or ideological interests.



SECTION 4 - SPECIAL TERMS & CONDITIONS

4.1 PROPOSAL SECURITY

Proposal Security Amount:

Yes No

x A Proposal Security shall not be required for this project.

Yes No

A Proposal Security shall be required, only for bidders that have a total cumulative base proposal amount that exceeds \$200,000. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed.

Yes No

x A Proposal Security shall be required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of 5% of the total cumulative base amount proposed.

Yes No

x A Proposal Security shall be required for every bidder, regardless of proposal amount. Proposal Security shall be in the amount of \$10,000 or 5% of the total cumulative base amount proposed, whichever is less.

Note - Contingency is not to be counted in the total amount the proposal security is based on.

Proposal Security Requirements: For projects in which Proposal Securities are required, each Proposal must 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. The agent or attorney in fact or other officer who signs a Bid Bond

for a surety company must file with such bond a certified copy of their power of attorney authorizing them to do so.

Scanned Proposal Security: For projects in which Proposal Securities are required, Proposers must submit a scanned copy of their Proposal Security (certified check, cashier's check or a Bid Bond) with their bid submittal through OpenGov.

Physical Proposal Security: For projects in which Proposal Securities are required, Proposers should also submit their original Proposal Security (certified check, cashier's check or a Bid Bond) at time of the bid due date, or they may be deemed as non-responsive. The original Proposal Security should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # RE-24-07 Pembroke Pines Parks - HVAC Replacement Re-bid**" and sent to the:

City of Pembroke Pines,
City Clerk's Office, 4th Floor,
601 City Center Way,
Pembroke Pines, Florida, 33025.

Opportunity to Cure: In the event that the proposer fails to submit the scanned and/or the physical proposal security, in the City's sole discretion, the City may allow the proposer to furnish the proposal security within 3 days of written notice of deficiency.

Successful Proposer: The Proposal Security of the Successful Proposer will be retained until such Proposer has executed the Contract and furnished the required insurance, payment and performance bonds, whereupon the Proposal Security will be returned. If the Successful Proposer fails to execute and deliver the Contract and furnish the required insurance and bonds within fifteen (15) calendar days of the Notice of Award, CITY may annul the Notice of Award and the entire sum of the Proposal Security shall be forfeited.



Three Lowest Proposers: The Proposal Security of the three (3) lowest Proposers will be returned within seven (7) calendar days after CITY and the Successful Proposer have executed the written Contract or if no such written Contract is executed within ninety (90) calendar days after the date of the Proposal opening, upon the demand of any Proposer at any time thereafter, provided that the Proposer has not been notified of the acceptance of their Proposal.

All Other Proposers: Proposal Security of all other Proposer will be returned within seven (7) calendar days after the proposal opening.

4.2 PAYMENT AND PERFORMANCE BONDS

Payment and Performance Bond Amount:

Yes No

* Payment and Performance Bonds shall not be required for this project.

Yes No

* Regardless of the awarded contract amount, two (2) separate bonds (Payment and Performance Bonds) are required, and both must be approved by the City. The penal sum stated in each bond shall be 100% of the contract price.

Yes No

In the event that the awarded contract exceeds \$200,000, two (2) separate bonds (Payment & Performance Bonds) are required, and both must be approved by the City. The penal sum stated in each bond shall be 100% of the contract price.

Note - Contingency is not to be counted in the total amount the payment and performance bonds are based on.

Coverage Period: The surety company shall only cover the period of performance /

construction and not the labor warranty nor the manufacturer's warranty periods.

Successful Proposer: Within fifteen (15) calendar days after Notice of Award and in any event prior to commencing work, the Contractor shall execute and furnish to City a performance bond and a payment bond.

Minimum Requirements of Surety: Each bond shall be written by a corporate surety, having a resident agent in the State of Florida and having been in business with a record of successful continuous operation for at least five (5) years. The surety shall hold a current certificate of authority from the Secretary of Treasury of the United States as an acceptable surety on federal bonds in accordance with United States Department of Treasury Circular No. 570. If the amount of the Bond exceeds the underwriting limitation set forth in the circular, in order to qualify, the net retention of the surety company shall not exceed the underwriting limitation in the circular and the excess risks must be protected by coinsurance, reinsurance, or other methods, in accordance with Treasury Circular 297, revised September 1, 1978 (31DFR, Section 223.10, Section 223.11). Further, the surety company shall provide City with evidence satisfactory to City, that such excess risk has been protected in an acceptable manner. The surety company shall have at least the following minimum qualification in accordance with the latest edition of A.M. Best's Insurance Guide, published by Alfred M. Best Company, Inc., Ambest Road, Oldwick, New Jersey 08858:

B+ to A+

Performance Bond: The performance bond shall be conditioned that the Contractor performs the contract in the time and manner prescribed in the contract.

Payment Bond: The payment bond shall be conditioned that the Contractor promptly make payments to all persons who supply the Contractor with labor, materials and



supplies used directly or indirectly by the Contractor in the prosecution of the work provided for in the Contract and shall provide that the surety shall pay the same in the amount not exceeding the sum provided in such bonds, together with interest at the maximum rate allowed by law; and that they shall indemnify and save harmless the City to the extent of any and all payments in connection with the carrying out of said Contract which the City may be required to make under the law.

Recordation of Bonds with the County: Pursuant to the requirements of Section 255.05(1)(a), Florida Statutes, it shall be the duty of the Contractor to record the aforesaid payment and performance bonds in the public records of Broward County, with the Contractor to pay all recording costs.

4.3 OWNER'S CONTINGENCY

While the specifications contained in this solicitation and any ensuing Purchase Orders or contracts have incorporated all anticipated work to be accomplished, there may be unanticipated work required of the vendor in conjunction with a specific project. For this reason, the City Commission may award a project with an "Owner's Contingency". This contingency or allowance authorizes the City execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. The Owner's Contingency is usually based on a specified percent of the proposed project amount and is established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. It is hereby understood and agreed that the vendor shall not expend any dollars in connection with the Owner's Contingency without the expressed prior approval of the City's authorized representative. Any Owner's Contingency

funds that have not been utilized at the end of the project will remain with the Owner, the contractor shall only be paid for the proposed project cost as approved by the City Commission along with any Owner Contingency expenses that were approved by the City's authorized representative.

4.4 TAX SAVER PROGRAM

The Contractor shall cooperate on certain projects to allow the City to avail itself of a sales tax savings program.

4.5 RELEASE OF LIEN

Contractor must provide an executed Partial/Final Release of Lien utilizing the City's standard Release of Lien Form in order for the City to release any payments to the Contractor.

4.6 SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS COLLECTION AND DISPOSAL REQUIREMENTS

The City of Pembroke Pines has an exclusive solid waste franchise agreement with Waste Pro of Florida, Inc. for the collection and disposal of all solid waste including construction and demolition (C & D) debris. All applicants for bids to perform construction work for the City of Pembroke Pines shall be subject to the requirements found in the City's exclusive solid waste franchise agreement and must contract Waste Pro of Florida, Inc. for the collection and disposal of all construction and demolition debris generated at such construction job sites.

For the current applicable rates and fees for Waste Pro of Florida, Inc. dumpsters, roll-off containers, and other related solid waste service equipment needs, please contact David Perez, Waste Pro's Pembroke Pines Sales Representative at (954) 967-4200 or dperez@wasteprousa.com.



For further information related to the solid waste franchise requirements, please contact Rose Colombo, Solid Waste Franchise Agreement Contract Manager, at (954) 518-9011 or rcolombo@ppines.com.

For solid waste franchise enforcement questions, please contact the City of Pembroke Pines Code Compliance Unit at (954) 431-4466.

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD[YY])

PRODUCER

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED

YOUR COMPANY NAME HERE

INSURER A:
INSURER B.
INSURER C.
INSURER D.
INSURER E.

Companies providing coverage

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DDYY)	POLICY EXPIRATION DATE (MM/DDYY)	LIMITS		
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> policy <input type="checkbox"/> project <input type="checkbox"/> loc	Must Include General Liability			EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$		
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	SAMPLE CERTIFICATE					
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$		
	EXCESS LIABILITY OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$		
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				<table border="1"> <tr> <td>WC STATU-TORY LIMITS</td> <td>OTH-ER</td> </tr> </table> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$	WC STATU-TORY LIMITS	OTH-ER
WC STATU-TORY LIMITS	OTH-ER						
	OTHER						

Certificate must contain wording similar to what appears below

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCL

"THE CERTIFICATE HOLDER IS NAMED AS ADDITIONALLY INSURED WITH REGARD TO GENERAL LIABILITY"

CERTIFICATE HOLDER

ADDITIONAL INSURED; INSURER LETTER:

CANCELLATION

City of Pembroke Pines
601 City Center Way
Pembroke Pines FL 33025

City Must Be Named as Certificate Holder

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE, THE CANCELLATION SHALL BE IN WRITING AND SHALL BE RECEIVED BY THE INSURED AT LEAST 30 DAYS WRITTEN LEFT.

AUTHORIZED REPRESENTATIVE



FINAL/PARTIAL RELEASE OF LIEN

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, for and in consideration of the payment of the sum of \$ [Payment Amount] and other valuable consideration, paid by **City of Pembroke Pines**, receipt of which is hereby acknowledge, hereby releases and quit claims to the said [Contractor Name] its successors and assigns, and

City of Pembroke Pines

The owner, all liens, lien rights, claims and demands of any kind whatsoever, which the undersigned now has or might have against the building on premises legally described as:

[Description]
PO #: [PO #]

Invoice #: [Invoice #]

On account of labor performed and/or material furnished for the construction of any improvements thereon. That all labor and materials used by the undersigned in the erection of said improvements have been fully paid for:

Witnesses: _____ _____ Print Name _____ _____ Print Name	<u>CONTRACTOR</u> <u>[NAME OF CONTRACTOR]</u> BY: _____ Print Name: _____ Title: _____
--	--

STATE OF FLORIDA)
) ss:
COUNTY OF BROWARD)

ON THIS _____ day of _____, 20____, before me, the undersigned notary public, personally appeared [Contractor's Representative] as [Job Title] of [Name of Contractor], personally known to me, or who has produced _____ as identification, and is the person who subscribed to the foregoing instrument and who acknowledged that (s)he executed the same and that (s)he was duly authorized to do so.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

NOTARY PUBLIC

Print or Type Name

My Commission Expires:



CONSTRUCTION AGREEMENT
BETWEEN THE CITY OF PEMBROKE PINES
AND {---Company Name---}

THIS AGREEMENT (“Agreement”), dated _____, is entered into by and between:

CITY OF PEMBROKE PINES, a municipal corporation of the State of Florida with a business address of **601 City Center Way, Pembroke Pines, Florida 33025** hereinafter referred to as "CITY",

and

{---Company Name---}, {---Corporation Type---}, as listed with the Florida Division of Corporations, authorized to do business in the State of Florida, and with a business address of {---Street1---} {---Street2---}, {---City---}, {---State/Province---} {---Postal Code---} (hereinafter referred to as the “CONTRACTOR”). CITY and CONTRACTOR may hereinafter be referred to collectively as the "Parties."

WITNESSETH:

In consideration of the mutual terms and conditions, promises, covenants and payments hereinafter set forth, CITY and CONTRACTOR agree as follows:

ARTICLE 1
PREAMBLE

In order to establish the background, context and form of reference for this Agreement, and to generally express the objectives and intentions of the respective Parties herein, the following statements, representations, and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions which follow, and may be relied upon by the Parties as essential elements of the mutual considerations upon which this Agreement is based.

1.1 On {---Solicitation Advertisement Date---}, the CITY advertised its notice to bidders of the CITY's desire to hire a firm to {---Solicitation Service Description---} as more particularly described in **Exhibit "A"** attached hereto and by this reference made a part hereof, for the said bid entitled:

{---Solicitation Type Abbreviation---} # {---Solicitation Number---}
“{---Solicitation Title---}”

1.2 On {---Bid Opening Date---}, the bids were opened at the offices of the City Clerk.



1.3 On _____, the CITY awarded the bid to CONTRACTOR and authorized the proper CITY officials to negotiate and enter into an agreement with CONTRACTOR to render the services more particularly described herein below.

1.4 Negotiations pertaining to the services to be performed by the CONTRACTOR were undertaken and this Agreement incorporates the results of such negotiation.

ARTICLE 2

SERVICES AND RESPONSIBILITIES

2.1 CONTRACTOR hereby agrees to perform the services for the {---**Solicitation Service Description**---}, at {---**Location Address**---} ("Property") as more particularly described in, and in accordance with the CITY's "{---**Solicitation Type Abbreviation**---} # {---**Solicitation Number**---}", attached hereto and made a part hereof as **Exhibit "A"** and CONTRACTOR's response thereto, attached hereto and made a part hereof as **Exhibit "B"**. CONTRACTOR agrees to perform all services required pursuant to this Agreement, the Sealed Bid Package, Addenda to this Agreement, and Commission award complete with proposal form.

2.2 CONTRACTOR shall furnish all services, labor, equipment, and materials necessary and as may be required in the performance of this Agreement, except as otherwise specifically provided for herein, and all work performed under this Agreement shall be done in a professional manner.

2.3 CONTRACTOR shall supervise the work force to ensure that all workers conduct themselves and perform their work in a safe and professional manner. CONTRACTOR shall comply with all OSHA safety rules and regulations in the operation of equipment and in the performance of the work. CONTRACTOR shall at all times have a competent field supervisor available to enforce these policies and procedures at the CONTRACTOR's expense.

2.4 CONTRACTOR shall provide CITY with seventy-two (72) hours written notice prior to the beginning of work under this Agreement and prior to any schedule change with the exception of changes caused by inclement weather.

2.5 CONTRACTOR hereby represents to CITY, with full knowledge that CITY is relying upon these representations when entering into this Agreement with CONTRACTOR, that CONTRACTOR has the professional expertise, experience and manpower to perform the services to be provided by CONTRACTOR pursuant to the terms of this Agreement.

2.6 CONTRACTOR hereby represents to CITY that CONTRACTOR is properly licensed by the applicable federal, state, and local agencies to provide the services under this Agreement. Furthermore, CONTRACTOR agrees to maintain such licenses during the term of this Agreement. If CONTRACTOR's license is revoked, suspended, or terminated for any reason by any governmental agency, CONTRACTOR shall notify the CITY immediately.

2.7 CONTRACTOR shall comply with any and all Federal, State, and local laws and regulations now in effect, or hereinafter enacted during the term of this Agreement, which are applicable to CONTRACTOR, its employees, agents or subcontractors, if any, with respect to the



work and services described herein. A violation of any federal, state, or local law or regulation may be cause for breach, allowing the CITY to terminate this Agreement.

2.8 CONTRACTOR shall gain prior written approval from the CITY prior to engaging any subconsultants, subcontractors, or other professional associates to perform in connection with this Agreement. Any subcontract with a subcontractor or subconsultant shall afford to the CONTRACTOR rights against the subcontractor or subconsultant which correspond to those rights afforded to the CITY against the CONTRACTOR herein, including but not limited to those rights of termination as set forth herein. No reimbursement shall be made to the CONTRACTOR for any subconsultants that have not been previously approved by the CITY for use by the CONTRACTOR.

2.9 **Return of Keys.** Upon completion of services rendered or termination of this agreement, CONTRACTOR must promptly return to CITY all CITY keys and/or access cards. By agreeing herein, CONTRACTOR understands that any loss or failure to return a CITY key shall subject CONTRACTOR to the costs associated with key replacement and/or re-keying. For keys unlocking several doors, replacement and re-keying costs can be substantial. In case of failure to return a key and failure to pay for key replacement and/or lock re-keying, CONTRACTOR understands that CITY shall enforce by all legal means its right to repayment for all costs incident to key replacement and/or lock re-keying.

ARTICLE 3

TIME OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

3.1 The work to be performed under this Agreement shall be commenced after CITY execution of the Agreement and not later than ten (10) days after the date that CONTRACTOR receives CITY's Notice to Proceed. The work shall be completed within {---Number of Days to Complete Project in Words---} {---Number of Days to Complete Project---} calendar days from issuance of CITY's Notice to Proceed, subject to any permitted extensions of time pursuant to this Agreement and any amendments and/or addenda thereto. For the purposes of this Agreement, the term "completion" shall mean the satisfactory completion and final inspection of the Property by the CITY.

3.2 During the pre-construction portion of the work hereunder, the Parties agree to work diligently and in good faith in performing their obligations hereunder, so that all required permits for the construction portion of the work may be obtained. In the event that any delays in the pre-construction or construction portion of the work occur, despite the diligent efforts of the Parties hereto, and such delays are the result of force majeure or are otherwise outside of the control of either party hereto, then the Parties shall agree on an equitable extension of the time for substantial completion hereunder and any resulting increase in general condition costs.

3.3 In the event that CONTRACTOR abandons this Agreement or causes it to be terminated, CONTRACTOR shall indemnify CITY against any loss pertaining to this termination up to a maximum of the full contracted fee amount. All finished or unfinished documents, data, studies, surveys, and reports prepared by CONTRACTOR shall become the property of CITY and shall be delivered by CONTRACTOR to CITY.



3.4 **Termination for Convenience.** This Agreement may be terminated by CITY for convenience, upon providing **{---Termination for Convenience---** of written notice to CONTRACTOR for such termination in which event CONTRACTOR shall be paid its compensation for services performed to termination date, including services reasonably related to termination. In the event that CONTRACTOR abandons this Agreement or causes it to be terminated, CONTRACTOR shall indemnify CITY against loss pertaining to this termination.

3.5 **Default by CONTRACTOR.** In addition to all other remedies available to CITY, this Agreement shall be subject to cancellation by CITY for cause, should CONTRACTOR neglect or fail to perform or observe any of the terms, provisions, conditions, or requirements herein contained, if such neglect or failure shall continue for a period of **thirty (30) calendar days** after receipt by CONTRACTOR of written notice of such neglect or failure.

ARTICLE 4 **COMPENSATION AND METHOD OF PAYMENT**

4.1 CITY agrees to compensate CONTRACTOR for all services performed under this Agreement by CONTRACTOR for work that has been completed, inspected and properly invoiced. The total compensation for all services shall not exceed **{---Request Amount Written---** (**{---Request Amount Numerical---**) which includes an owner's contingency fee in the amount of **{---Contingency Fee in Words---** (**{---Contingency Fee Amount---**) and an amount towards the payment and performance bond equal to _____.

4.1.1 This contingency or allowance authorizes the CITY to execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. In addition, CITY shall utilize the owner's contingency to reimburse CONTRACTOR for the related permit, license, impact or inspection fees. Payments will be made to CONTRACTOR based on the actual cost of permits upon submission of paid permit receipts. **It is hereby understood and agreed that the CONTRACTOR shall not expend any dollars in connection with the owner's contingency or allowance without the expressed prior written approval of the CITY's authorized representative.** Any owner's contingency funds or allowance that have not been utilized at the end of the project will remain with the CITY, the CONTRACTOR shall only be paid for the proposed project cost as approved by the City Commission along with any owner contingency expenses or allowances that were approved by the CITY's authorized representative. If the permit fees exceed the Owner's Contingency indicated, CITY will reimburse the contractor the actual amount of the permit fees required for project completion.

4.1.2 The total compensation amount may not be exceeded without a written amendment to this Agreement. A retainage of five percent (5%) will be deducted from monthly payments until the project is complete. Retainage monies will be released upon satisfactory completion and final inspection of the work. Invoices must bear the project name, project number, bid number and purchase order number. CITY has up to thirty (30) days to review, approve and pay all invoices after receipt. CONTRACTOR shall invoice CITY and provide a written request to CITY to commence the one (1) year warranty period. All necessary Releases and



Affidavits and approval of final payments shall be processed before the warranty period begins.

4.2 **Prompt Payment Act.** All payments shall be governed by the Local Government Prompt Payment Act, as set forth in Part VII, Chapter 218, Florida Statutes.

4.3 **Method of Billing and Payment.** The CITY shall within thirty (30) calendar days, from the date the CITY's Authorized Representative approves the Application for Payment, pay the CONTRACTOR the amount approved by the CITY's Authorized Representative or his/her assignees. Invoices submitted by CONTRACTOR shall include the date of service, services performed, hours spent, location of services, description of the assignment/project, date of completion and any other information reasonable required by the CITY.

Payment will be made to CONTRACTOR at:

{---Company Name---}
{---Payment Street 1---}, {---Payment Street 2---}
{---Payment City---}, {---Payment State/Province---} {---Payment Postal Code---}

ARTICLE 5 WAIVER OF LIENS

Prior to final payment of the amount due under the terms of this Agreement, a final waiver of lien shall be submitted by the CONTRACTOR as well as all suppliers and subcontractors who worked on the project that is the subject of this Agreement. Payment of the invoice and acceptance of such payment by CONTRACTOR shall release CITY from all claims of liability by CONTRACTOR in connection with this Agreement.

ARTICLE 6 WARRANTY

CONTRACTOR warrants the work against defect for a period of one (1) year from the date of completion of work. In the event that 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. The one (1) year warranty period does not begin until substantial completion of the entire project, and the subsequent release of any Performance or Payment Bonds, which may be required by the original bid document.

ARTICLE 7 CHANGES IN SCOPE OF WORK

7.1 CITY or CONTRACTOR may request changes that would increase, decrease, or otherwise modify the scope of work, as more specifically described herein. These changes may affect the monthly compensation accordingly. Such changes or additional services must be in accordance with the provisions of the Code of Ordinances of the CITY, and must be contained in a written change order or amendment, executed by the Parties hereto, with the same formality, equality and



dignity herewith prior to any deviation from the terms of this Agreement, including the initiation of any additional or extra work. In no event will the CONTRACTOR be compensated for any work which has not been described either herein or in a separate written change order, amendment or agreement executed by the Parties hereto.

7.2 While requesting changes that would increase, decrease, or otherwise modify the scope of work, CONTRACTOR shall continue work, however, in no event will CONTRACTOR be compensated for any work that has not been described either herein, or by a change order, written amendment or separate written agreement, executed by the parties hereto, with the same formality, equality, and dignity herewith.

ARTICLE 8

PAYMENT & PERFORMANCE BONDS

8.1 Within fifteen (15) calendar days after Notice of Award and in any event prior to commencing work, the CONTRACTOR shall execute and furnish to CITY a Payment Bond and a Performance Bond, each written by a corporate surety, having a resident agent in the State of Florida and having been in business with a record of successful continuous operation for at least five (5) years. The surety shall hold a current certificate of authority from the Secretary of Treasury of the United States as an acceptable surety on federal bonds in accordance with United States Department of Treasury Circular No. 570. If the amount of the bonds exceeds the underwriting limitation set forth in the circular, in order to qualify, the net retention of the surety company shall not exceed the underwriting limitation in the circular and the excess risks must be protected by coinsurance, reinsurance, or other methods, in accordance with Treasury Circular 297, revised September 1, 1978 (31DFR, Section 223.10, Section 223.11). Further, the surety company shall provide CITY with evidence satisfactory to CITY, that such excess risk has been protected in an acceptable manner. The surety company shall have at least the following minimum qualification in accordance with the latest edition of A.M. Best's Insurance Guide, published by Alfred M. Best Company, Inc., Ambest Road, Oldwick, New Jersey 08858:

B+ to A+

8.2 Two (2) separate bonds are required and both must be approved by the CITY. **The penal sum stated in each bond shall be 100% of the project value.** The Performance Bond shall be conditioned upon the CONTRACTOR's performance of the work in the time and manner prescribed in the Agreement. The Payment Bond shall be conditioned upon the CONTRACTOR's promptly making payments to all persons who supply the CONTRACTOR with labor, materials and supplies used directly or indirectly by the CONTRACTOR in the prosecution of the work provided for in this Agreement and shall provide that the surety shall pay the same in the amount not exceeding the sum provided in such bonds, together with interest at the maximum rate allowed by law; and that they shall indemnify and save harmless the CITY to the extent of any and all payments in connection with the carrying out of said Agreement which the CITY may be required to make under the law.

8.3 Pursuant to the requirements of Section 255.05(1)(a), Florida Statutes, it shall be the duty of the CONTRACTOR to record the aforesaid Payment Bond and Performance Bond in the public records of Broward County, and CONTRACTOR shall be responsible for payment of all recording costs.



ARTICLE 9
INDEMNIFICATION

9.1 CONTRACTOR shall indemnify and hold harmless the CITY, its officers, agents, assigns, employees, consultants, separate contractors, any of their subcontractors, and sub-subcontractors from and against claims, demands, or causes of action whatsoever, and the resulting losses, damages, costs and expenses, including but not limited to attorney's fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY arising out of or resulting from performance of this Agreement, the failure of CONTRACTOR to take out and maintain insurance as required under this Agreement, and any negligent act or omission of CONTRACTOR, its employees, agents, partners, principals, subcontractors, and officers. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorneys' fees which may issue thereon.

9.2 Upon completion of all services, obligations and duties provided for in this Agreement, or in the event of termination of this Agreement for any reason, the terms and conditions of this Article shall survive indefinitely.

9.3 CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of CONTRACTOR.

9.4 CONTRACTOR shall be liable for any accident, loss, injury or damages to persons and/or property arising out of and/or resulting from CONTRACTOR's performance of the work required by this Agreement.

9.5 Nothing contained herein is intended nor shall be construed to waive CITY's rights and immunities under the common law or Section 768.28, Florida Statutes, as may be amended from time to time.

ARTICLE 10
INSURANCE

10.1 CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein required.

10.2 CONTRACTOR AND ALL SUBCONTRACTORS, SHALL NOT BE ALLOWED TO commence work under this AGREEMENT until the CONTRACTOR has obtained all insurance required by this Insurance Section, including the purchase of a Policy of Insurance naming the City of Pembroke Pines as an Additional Named Insured, which Insurance Policy and its terms must be agreed to and approved in writing by the Risk Manager for the City of Pembroke Pines



, nor shall any SUBCONTRACTOR be allowed to commence work under this AGREEMENT until the SUBCONTRACTOR complies with the Insurance requirements required by this Insurance Section, including the duty to purchase a Policy of Insurance which names the City of Pembroke Pines as an Additional Named Insured, which Insurance Policy and its terms are agreed to and approved in writing by the Risk Manager for the City of Pembroke Pines.

10.3 Certificates of Insurance, reflecting evidence of the required insurance, shall be filed with the CITY’s Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company shall be rated no less than “A” as to management, and no less than “Class VI” as to financial strength according to the latest edition of Best’s Insurance Guide published by A.M. Best Company.

10.4 Certificates of Insurance shall provide for thirty (30) calendar days’ prior written notice to the CITY in case of cancellation or material changes in the policy limits or coverage states. If the carrier cannot provide thirty (30) calendar days’ notice of cancellation, either the CONTRACTOR or their Insurance Broker must agree to provide notice.

10.5 Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, the CONTRACTOR shall furnish, at least forty-five (45) calendar days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall neither commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

10.6 REQUIRED INSURANCE

CONTRACTOR shall be required to obtain all applicable insurance coverage, as indicated below, prior to commencing any work pursuant to this Agreement:

Yes No

10.6.1 Comprehensive General Liability Insurance written on an occurrence basis including, but not limited to: coverage for bodily injury and property damage, personal & advertising injury, products & completed operations, and contractual liability. Coverage must be written on an occurrence basis, with limits of liability no less than:

1. Each Occurrence Limit - \$1,000,000
2. Fire Damage Limit (Damage to rented premises) - \$100,000
3. Personal & Advertising Injury Limit - \$1,000,000
4. General Aggregate Limit - \$2,000,000
5. Products & Completed Operations Aggregate Limit - \$2,000,000

Aggregate Reduction: CONTRACTOR shall advise the CITY in the event any aggregate limits are reduced below the required per-occurrence limit. At its own expense, the



CONTRACTOR will reinstate the aggregate limits to comply with the minimum requirements and shall furnish the CITY with a new certificate of insurance showing such coverage is in force.

Products & Completed Operations Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement. (For Construction projects: Increase to ten (10) years and include a Designated Construction Project(s) General Aggregate Limit) **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.**

Yes No

10.6.2 Workers' Compensation and Employers' Liability Insurance covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and all subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:

- 1. Workers' Compensation: Coverage A – Statutory
- 2. Employers Liability: Coverage B \$500,000 Each Accident
\$500,000 Disease – Policy Limit
\$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption for CITY to exempt CONTRACTOR.

Yes No

10.6.3 Comprehensive Auto Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the performance of work under this Agreement, with a combined single limit of liability for bodily injury and property damage no less than:

- 1. Any Auto (Symbol 1)
Combined Single Limit (Each Accident) - \$1,000,000
- 2. Hired Autos (Symbol 8)
Combined Single Limit (Each Accident) - \$1,000,000
- 3. Non-Owned Autos (Symbol 9)
Combined Single Limit (Each Accident) - \$1,000,000

If work under this Agreement includes transportation of hazardous materials, policy shall include pollution liability coverage equivalent to that provided by the latest version of the ISO pollution liability broadened endorsement for auto and the latest version of the ISO Motor Carrier Act endorsement, equivalents or broader language.

Yes No

10.6.3.1 If CONTRACTOR requests reduced limits under a Personal Auto



Liability Policy and it is agreed to by the CITY, coverage shall include Bodily Injury limits of \$100,000 per person/\$300,000 per occurrence and Property Damage limits of \$300,000 per occurrence

Yes No

10.6.4 Umbrella/Excess Liability Insurance in the amount of \$ _____ as determined appropriate by the CITY depending on the type of job and exposures contemplated. Coverage must be follow form of the General Liability, Auto Liability and Employer’s Liability. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement. **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.**

Yes No

10.6.5 Professional Liability/Errors & Omissions Insurance with a limit of liability no less than \$1,000,000 per wrongful or negligent act. This coverage shall be maintained for a period of no less than three (3) years after the delivery of goods/services final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first calendar day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years.)*

Yes No

10.6.6 Environmental/Pollution Liability insurance shall be required with a limit of no less than \$1,000,000 per wrongful act. Coverage shall include: CONTRACTOR’s completed operations, sudden, accidental and gradual pollution conditions. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first calendar day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years).* **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.**

Yes No

10.6.7 Cyber Liability including Network Security and Privacy Liability with a limit of liability no less than \$1,000,000 per loss. Coverage shall include liability arising from: theft, dissemination and/or use of confidential information stored or transmitted in electronic form, unauthorized access to, use of, or tampering with computer systems, including hacker attacks or inability of an authorized third party to gain access to your services, including denial of service, and the introduction of a computer virus into, or otherwise causing damage to, a customer’s or third person’s computer, computer system, network, or similar computer-related property and the data, software and programs thereon. If vendor is collecting credit card information, it shall cover all PCI breach expenses. Coverage is to include the various state monitoring and state required remediation as well as meet the various state notification requirements. This coverage shall be maintained for a period of no less than the later of three (3) years after delivery of goods/services or final payment of the Agreement. Retroactive date, if any, to be no later than the first calendar day of service to the CITY. **The City of Pembroke Pines must be shown as an additional**



insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

10.6.8 Crime Coverage shall include employee dishonesty, forgery or alteration, and computer fraud in an amount of no less than \$1,000,000 per loss. If CONTRACTOR is physically located on CITY’s premises, a third-party fidelity coverage extension shall apply.

Yes No

10.6.9 Garage Liability & Garage-keepers Legal Liability for those that manage parking lots for the CITY or service CITY vehicles. Coverage must be written on an occurrence basis, with limits of liability no less than \$1,000,000 per Occurrence, including products & completed operations. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement. **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.**

Yes No

10.6.10 Liquor Liability for those in the business of selling, serving or furnishing of any alcoholic beverages, whether licensed or not, shall carry a limit of liability of no less than \$1,000,000 per occurrence. Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement. **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.**

Yes No

10.6.11 Sexual Abuse & Molestation for any agreement involving a vulnerable population. Limits shall be no less than \$500,000 per occurrence. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement. Retroactive date, if any, to be no later than the first calendar day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed.)* **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY’s additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.**

Yes No

10.6.12 Builder’s Risk Insurance shall be “All Risk” for one hundred percent (100%) of the completed value of the project that is the subject of this Agreement with a deductible of not more than five percent (5%) for Named Windstorm and \$20,000 per claim for all other perils. The Builder’s Risk Insurance shall include interests of the CITY, the CONTRACTOR and subcontractors of the project. The CONTRACTOR shall include a separate line item for all costs associated with the Builder’s Risk Insurance Coverage for the project. The CITY reserves the right at its sole discretion to utilize the CONTRACTOR’s Builder’s Risk Insurance or for the CITY to purchase its own Builder’s Risk Insurance for the Project. Prior to the CONTRACTOR purchasing the Builder’s Risk insurance for the project, the CONTRACTOR shall allow the CITY the opportunity to analyze the CONTRACTOR’s coverage and determine who shall purchase the coverage.



Should the CITY utilize the CONTRACTOR’s Builder’s Risk Insurance, the CONTRACTOR shall be responsible for all deductibles. If the CITY chooses to purchase the Builder’s Risk Coverage on the project, the CONTRACTOR shall provide the CITY with a change order deduct for all premiums and costs associated with the Builder’s Risk insurance in their schedule. Should the CITY choose to utilize the CITY’s Builder’s Risk Program, the CITY shall be responsible for the Named Windstorm Deductible and the CONTRACTOR shall be responsible for the All Other Perils Deductible.

If and when 100% is not available or reasonable, the CITY Risk Manager is to make the determination as to what limits are appropriate for the given project.

Yes No

10.6.13 Other Insurance

10.7 REQUIRED ENDORSEMENTS

- 10.7.1 The City of Pembroke Pines shall be named as an Additional Insured on each of the Liability Policies required herein.
- 10.7.2 Waiver of all Rights of Subrogation against the CITY.
- 10.7.3 Thirty (30) calendar day Notice of Cancellation or Non-Renewal to the CITY.
- 10.7.4 CONTRACTOR’s policies shall be Primary & Non-Contributory.
- 10.7.5 All policies shall contain a “severability of interest” or “cross liability” clause without obligation for premium payment of the CITY.
- 10.7.6 The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.

10.8 Any and all insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

10.9 The CITY reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Agreement.



10.10 The insurance requirements specified in this Agreement are minimum requirements and in no way reduce any liability the CONTRACTOR has assumed in the indemnification/hold harmless section(s) of this Agreement.

ARTICLE 11
NON-DISCRIMINATION & EQUAL OPPORTUNITY EMPLOYMENT

During the performance of the Agreement, neither the CONTRACTOR nor any subcontractors shall discriminate against any employee or applicant for employment because of race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. CONTRACTOR will take affirmative action to ensure that employees are treated during employment, without regard to their race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. Such actions must include, but not be limited to, the following: employment, promotion, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. CONTRACTOR shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause. CONTRACTOR further agrees that CONTRACTOR will ensure that subcontractors, if any, will be made aware of and will comply with this nondiscrimination clause.

ARTICLE 12
INDEPENDENT CONTRACTOR

This Agreement does not create an employee/employer relationship between the Parties. It is the intent of the Parties that the CONTRACTOR is an independent contractor under this Agreement and not the CITY's employee for all purposes, including but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the State Workers' Compensation Act, and the State unemployment insurance law. The CONTRACTOR shall retain sole and absolute discretion in the judgment of the manner and means of carrying out CONTRACTOR's activities and responsibilities hereunder provided, further that administrative procedures applicable to services rendered under this Agreement shall be those of CONTRACTOR, which policies of CONTRACTOR shall not conflict with CITY, State, Federal, or United States policies, rules or regulations relating to the use of CONTRACTOR's funds provided for herein. The CONTRACTOR agrees that it is a separate and independent enterprise from the CITY, that it has full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This Agreement shall not be construed as creating any joint employment relationship between the CONTRACTOR and the CITY and the CITY will not be liable for any obligation incurred by CONTRACTOR, including but not limited to unpaid minimum wages and/or overtime premiums.

ARTICLE 13
RESERVED



ARTICLE 14
AGREEMENT SUBJECT TO FUNDING

This Agreement shall remain in full force and effect only as long as the expenditures provided for in the Agreement have been appropriated by the City Commission of the City of Pembroke Pines in the annual budget for each fiscal year of this Agreement, and is subject to termination based on lack of funding.

ARTICLE 15
UNCONTROLLABLE FORCES

15.1 Neither CITY nor CONTRACTOR shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to fire, flood, earthquakes, storms, lightning, epidemic, pandemic, acts of God, war, riot, civil disturbance, sabotage, and governmental actions.

15.2 Neither party shall, however, be excused from performance if nonperformance is due to forces, which are preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

ARTICLE 16
GOVERNING LAW AND VENUE

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida as now and hereafter in force. The venue for any and all actions or claims arising out of or related to this Agreement shall be in Broward County, Florida.

ARTICLE 17
SIGNATORY AUTHORITY

Upon CITY's request, CONTRACTOR shall provide CITY with copies of requisite documentation evidencing that the signatory for CONTRACTOR has the authority to enter into this Agreement.

ARTICLE 18
DEFAULT OF CONTRACT & REMEDIES

18.1 **Damages.** CITY reserves the right to recover any ascertainable actual damages incurred as a result of the failure of CONTRACTOR to perform in accordance with the requirements of this



Agreement, or for losses sustained by CITY resultant from CONTRACTOR's failure to perform in accordance with the requirements of this Agreement.

18.2 **Liquidated Damages.** As a breach of the service provided by this Agreement would cause serious and substantial damage to CITY Property, 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 Property, leaving the said property 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, {---**Liquidated Damages Amount Written---**} (**-\${---Liquidated Damages Amount---**}) 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.

18.3 **Correction of Work.** If, in the judgment of CITY, work provided by CONTRACTOR does not conform to the requirements of this Agreement, or if the work exhibits poor workmanship, CITY reserves the right to require that CONTRACTOR correct all deficiencies in the work to bring the work into conformance without additional cost to CITY, and/or replace any personnel who fail to perform in accordance with the requirements of this Agreement. CITY shall be the sole judge of non-conformance and the quality of workmanship.

18.4 **Default of Contract.** The occurrence of any one or more of the following events shall constitute a default and breach of this Agreement by CONTRACTOR:

18.4.1 The abandonment of the Property by CONTRACTOR for a period of more than seven (7) business days.

18.4.2 The abandonment, unnecessary delay, refusal of, or failure to comply with any of the terms of this Agreement or neglect, or refusal to comply with the instructions of the CITY's Authorized Representative relative thereto.

18.4.3 The failure by CONTRACTOR to observe or perform any of the terms, covenants, or conditions of this Agreement to be observed or performed by CONTRACTOR, where such failure shall continue for a period of seven (7) calendar days after written notice thereof by CITY to CONTRACTOR; provided, however, that if the nature of CONTRACTOR's default is such that more than seven (7) calendar days are reasonably required for its cure, then CONTRACTOR shall not be deemed to be in default if CONTRACTOR commences such cure within said seven (7) calendar day period and thereafter diligently prosecutes such cure to completion.

18.4.4 The assignment and/or transfer of this Agreement or execution or attachment thereon by CONTRACTOR or any other party in a manner not expressly permitted hereunder.

18.4.5 The making by CONTRACTOR of any general assignment or general arrangement for the benefit of creditors, or the filing by or against CONTRACTOR of a petition to have



CONTRACTOR adjudged a bankruptcy, or a petition for reorganization or arrangement under any law relating to bankruptcy (unless, in the case of a petition filed against CONTRACTOR, the same is dismissed within sixty (60) calendar days); or the appointment of a trustee or a receiver to take possession of substantially all of CONTRACTOR's assets, or for CONTRACTOR's interest in this Agreement, where possession is not restored to CONTRACTOR within thirty (30) calendar days; for attachment, execution or other judicial seizure of substantially all of CONTRACTOR's assets, or for CONTRACTOR's interest in this Agreement, where such seizure is not discharged within thirty (30) calendar days.

18.5 **Remedies in Default.** In case of default by CONTRACTOR, CITY shall notify CONTRACTOR, in writing, of such abandonment, delay, refusal, failure, neglect, or default and direct CONTRACTOR to comply with all provisions of this Agreement. A copy of such written notice shall be mailed to the Surety on the Performance Bond. If the abandonment, delay, refusal, failure, neglect or default is not cured within seven (7) calendar days of when notice was sent by CITY, CITY may declare a default of the Agreement and notify CONTRACTOR of such declaration of default and terminate the Agreement. The Surety on the Performance Bond shall within ten (10) days of such declaration of default, rectify or cause to be rectified any mismanagement or breach of service in the Agreement and assume the work of CONTRACTOR and proceed to perform services under the Agreement, at its own cost and expense.

18.5.1 Upon such declaration of default, all payments remaining due CONTRACTOR at the time of default, less all sums due CITY for damages suffered, or expenses incurred by reason of default, shall be due and payable to Surety. Thereafter the Surety shall receive monthly payments equal to those that would have been paid by the CONTRACTOR had the CONTRACTOR continued to perform the services under the Agreement.

18.5.2 CITY may complete the Agreement, or any part thereof, either by day labor or re-letting a contract for the same, and procure the equipment and the facilities necessary for the completion of the Agreement, and charge the cost of same to CONTRACTOR and/or the Surety together with the costs incident thereto to such default. CITY reserves the right to assign any remaining work at any Property location to another vendor as may be necessary to complete the Scope of Work.

18.5.3 In the event CITY completes the Agreement at a lesser cost than would have been payable to CONTRACTOR under this Agreement, if the same had been fulfilled by CONTRACTOR, CITY shall retain such differences. Should such cost to CITY be greater, CONTRACTOR shall pay the amount of such excess to the CITY.

18.5.4 Notwithstanding the other provisions in this Article, CITY reserves the right to terminate the Agreement at any time, whenever the service provided by CONTRACTOR fails to meet reasonable standards of the trade after CITY gives written notice to the CONTRACTOR of the deficiencies as set forth in the written notice within fourteen (14) calendar days of the receipt by CONTRACTOR of such notice from CITY.

ARTICLE 19



BANKRUPTCY

It is agreed that if CONTRACTOR is adjudged bankrupt, either voluntarily or involuntarily, then this Agreement shall terminate effective on the date and at the time the bankruptcy petition is filed.

ARTICLE 20 **MERGER; AMENDMENT**

This Agreement constitutes the entire Agreement between CONTRACTOR and CITY, and all negotiations and oral understandings between the Parties are merged herein. This Agreement can be supplemented or amended only by a written document executed by both CONTRACTOR and CITY with the same formality and equal dignity herewith.

ARTICLE 21 **DISPUTE RESOLUTION**

In the event that a dispute, if any, arises between CITY and CONTRACTOR relating to this Agreement, performance or compensation hereunder, CONTRACTOR shall continue to render service in full compliance with all terms and conditions of this Agreement as interpreted by CITY regardless of such dispute. CONTRACTOR expressly recognizes the paramount right and duty of CITY to provide adequate maintenance of CITY's Property, and further agrees, in consideration for the execution of this Agreement, that in the event of such a dispute, if any, it will not seek injunctive relief in any court, but will negotiate with CITY for an adjustment on the matter or matters in dispute and, upon failure of said negotiations to resolve the dispute, may present the matter to a court of competent jurisdiction in an appropriate suit therefore instituted by it or by CITY.

ARTICLE 22 **PUBLIC RECORDS**

22.1 The City of Pembroke Pines is public agency subject to Chapter 119, Florida Statutes. The CONTRACTOR shall comply with Florida's Public Records Law. Specifically, the CONTRACTOR shall:

22.1.1 Keep and maintain public records required by the CITY to perform the service;

22.1.2 Upon request from the CITY's custodian of public records, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law;

22.1.3 Ensure that public records that are exempt or that are confidential and exempt from public record disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and, following completion of the Agreement, CONTRACTOR shall destroy all copies of such confidential and exempt records remaining



in its possession after the CONTRACTOR transfers the records in its possession to the CITY; and

22.1.4 Upon completion of the Agreement, CONTRACTOR shall transfer to the CITY, at no cost to the CITY, all public records in CONTRACTOR's possession. All records stored electronically by the CONTRACTOR must be provided to the CITY, upon request from the CITY's custodian of public records, in a format that is compatible with the information technology systems of the CITY.

22.2 The failure of CONTRACTOR to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement and the CITY shall enforce the Default in accordance with this Agreement.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

**CITY CLERK
601 CITY CENTER WAY, 4th FLOOR
PEMBROKE PINES, FL 33025
(954) 450-1050
drogers@ppines.com**

ARTICLE 23
SCRUTINIZED COMPANIES

23.1 CONTRACTOR, its principals or owners, certify that they are not listed on the Scrutinized Companies that Boycott Israel List, Scrutinized Companies with Activities in Sudan List, Scrutinized Companies with Activities in Iran Terrorism Sectors List, or is engaged in business operations with Syria. In accordance with Section 287.135, Florida Statutes, as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with any agency or local governmental entity for goods or services of:

23.1.1 Any amount if, at the time bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel; or

23.1.2 One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:



23.1.2.1 Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in Iran Terrorism Sectors List, created pursuant to Section 215.473, Florida Statutes; or

23.1.2.2 Is engaged in business operations in Syria.

ARTICLE 24

EQUAL BENEFITS FOR EMPLOYEES

24.1 CONTRACTOR certifies that it is aware of the requirements of Section 35.39 of the CITY's Code of Ordinances and certifies that it is aware of the requirements of Section 35.39 of the CITY's Code of Ordinances and certifies that (**check only one box below**):

- CONTRACTOR currently complies with the requirements of Section 35.39 of the CITY's Code of Ordinances; or
- CONTRACTOR will comply with the conditions of Section 35.39 of the CITY's Code of Ordinances; or
- CONTRACTOR will not comply with the conditions of Section 35.39 of the CITY's Code of Ordinances; or
- CONTRACTOR does not comply with the conditions of Section 35.39 of the CITY's Code of Ordinances because of the following allowable exemption (**check only box below**):
 - CONTRACTOR does not provide benefits to employees' spouses in traditional marriages; or
 - CONTRACTOR provides an employee the cash equivalent of benefits because CONTRACTOR is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, CONTRACTOR shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state the efforts taken to provide such benefits and the amount of the cash equivalent. Case equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The case equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse; or
 - CONTRACTOR is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated, supervised, or controlled by or in conjunction with a religious organization, association, or society; or
 - CONTRACTOR is a governmental agency.

24.2 Except where federal or state law mandates to the contrary, a contractor awarded a contract pursuant to a competitive solicitation shall provide benefits to Domestic Partners and spouses of



its employees, irrespective of gender, on the same basis as it provides benefits to employees' spouses in traditional marriages.

24.3 CONTRACTOR shall provide the City Manager and his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this Article, and upon request shall provide evidence that the CONTRACTOR is in compliance with the provisions of this Article upon the renewal of this AGREEMENT or when the City Manager or his/her designee receives a complaint or has reason to believe CONTRACTOR may not be in compliance with the provisions of this Article. Records shall include but not be limited to providing the City Manager and his/her designee with certified copies of CONTRACTOR's records pertaining to its benefits policies and its employment policies and practices.

24.4 CONTRACTOR must conspicuously make available to all employees and applicants for employment the following statement:

“During the performance of a contract with the City of Pembroke Pines, Florida, the CONTRACTOR will provide Equal Benefits to its employees with spouses, as defined by Section 35.39 of the City of Pembroke Pines Code of Ordinances, and its employees with Domestic Partners and all Married Couples”.

If CONTRACTOR has questions regarding the application of Section 35.39 of the City of Pembroke Pines Code of Ordinances to CONTRACTOR's duties pursuant to this Agreement, contact Human Resources at (954) 392-2092 or drotstein@ppines.com.

24.5 By executing this Agreement, CONTRACTOR certifies that it agrees to comply with the above and Section 35.39 of the City of Pembroke Pines Code of Ordinances, as may be amended from time to time.

ARTICLE 25

EMPLOYMENT ELIGIBILITY

25.1 **E-Verify.** CONTRACTOR certifies that it is aware of and complies with the requirements of Section 448.095, Florida Statutes, as may be amended from time to time and briefly described herein below.

25.1.1 Definitions for this Section.

25.1.1.1 “Contractor” means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration.

25.1.1.2 “Contractor” includes, but is not limited to, a vendor or consultant.

25.1.1.3 “Subcontractor” means a person or entity that provides labor,



supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

25.1.1.4 “E-Verify system” means an Internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

25.2 **Registration Requirement; Termination.** Pursuant to Section 448.095, Florida Statutes, effective January 1, 2021, Contractors, shall register with and use the E-verify system in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security’s E-Verify System to verify the employment eligibility of:

25.2.1 All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

25.2.2 All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with the City of Pembroke Pines. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security’s E-Verify System during the term of the contract is a condition of the contract with the City of Pembroke Pines; and

25.2.3 The Contractor shall comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes, but is not limited to registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination. Termination of this Contract under this Section is not a breach of contract and may not be considered as such. If this contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

ARTICLE 26

FEDERAL REQUIREMENTS

Notwithstanding anything to the contrary set forth herein, CONTRACTOR shall comply with the applicable federal requirements set forth in 2 C.F.R. Part 200, as may be applicable. In the event of any conflicts, the provisions of 2 C.F.R. Part 200 shall prevail. Any reference made to CONTRACTOR in this section shall also apply to any subcontractor under the terms of this Agreement. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses:



26.1 **Equal Employment Opportunity**. During the performance of this contract, CONTRACTOR agrees as follows:

26.1.1 CONTRACTOR will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. CONTRACTOR will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

26.1.2 CONTRACTOR will, in all solicitations or advertisements for employees placed by or on behalf of CONTRACTOR, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

26.1.3 CONTRACTOR will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with CONTRACTOR's legal duty to furnish information.

26.1.4 CONTRACTOR will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of CONTRACTOR's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

26.1.5 CONTRACTOR will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

26.1.6 CONTRACTOR will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary



of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

26.1.7 In the event of CONTRACTOR's non-compliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this Agreement may be canceled, terminated or suspended in whole or in part and CONTRACTOR may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

26.1.8 CONTRACTOR will include the provisions of paragraphs **(26.1.1)** through **(26.1.8)** in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. CONTRACTOR will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: *Provided*, however, that in the event CONTRACTOR becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, CONTRACTOR may request the United States to enter into such litigation to protect the interests of the United States.

The CITY further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, that if the CITY so participating is a state or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The CITY further agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The CITY further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the CITY agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or



all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the CITY under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such CITY; and refer the case to the Department of Justice for appropriate legal proceedings.

26.2 **Davis-Bacon Act.** CONTRACTOR shall comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented by Department of Labor Regulations (29 CFR Part 5). In accordance with the statute, CONTRACTOR must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, CONTRACTOR must be required to pay wages not less than once a week.

26.3 **Copeland “Anti-Kickback” Act.** CONTRACTOR shall comply with the Copeland “Anti-Kickback” Act, (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). CONTRACTOR must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. CITY must report all suspected or reported violations to the Federal awarding agency.

26.4 **Contract Work Hours and Safety Standards Act (40 U.S.C. 3701- 3708).** Where applicable, pursuant to 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5) CONTRACTOR must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous.

26.4.1 **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

26.4.2 **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (25.4.1) of this section the CONTRACTOR and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in



violation of the clause set forth in paragraph (25.4.1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (25.4.1) of this section.

26.4.3 **Withholding for unpaid wages and liquidated damages.** CITY shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by CONTRACTOR or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (25.4.2) of this section.

26.4.4 **Subcontracts.** CONTRACTOR or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (25.4.1) through (25.4.4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (25.4.1) through (25.4.4) of this section.

26.5 CONTRACTOR agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401- 7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251- 1387). CITY will report violations to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

26.5.1 **Clean Air Act.** CONTRACTOR agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. CONTRACTOR agrees to report each violation to CITY and understands and agrees that the CITY will, in turn, report each violation as required to assure notification to the State, Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office. CONTRACTOR agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance.

26.5.2 **Federal Water Pollution Control Act.** CONTRACTOR agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. CONTRACTOR agrees to report each violation to the CITY and understands and agrees that the CITY will, in turn, report each violation as required to assure notification to the State, Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office. CONTRACTOR agrees to include these requirements in each subcontract exceeding one hundred fifty thousand dollars (\$150,000) financed in whole or in part with Federal assistance.



26.6 **Suspension and Debarment.** This Agreement is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000, as such CONTRACTOR is required to verify that none of the contractor's agents, principals (defined at 2 C.F.R. § 180.995), or affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

26.6.1 CONTRACTOR must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into. This certification is a material representation of fact relied upon by CITY. If it is later determined that CONTRACTOR did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to State and CITY, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

26.6.2 The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

26.7 **Byrd Anti-Lobbying Amendment, as amended (31 U.S.C. § 1352).** CONTRACTOR shall file the required certification pursuant to 31 U.S.C. 1352. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.

26.8 **Compliance with State Energy Policy and Conservation Act.** CONTRACTOR shall comply with all mandatory standards and policies relating to energy efficiency contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

26.9 **Procurement of Recovered Materials.** The CITY and CONTRACTOR must comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

26.10 **Reporting.** Pursuant to 44 CFR 13.36(i)(7), CONTRACTOR shall comply with federal requirements and regulations pertaining to reporting, including but not limited to those set forth at



44 CFR 40 and 41, if applicable. Furthermore, both parties shall provide the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representative access to any books, documents, papers, and records of CONTRACTOR which are directly pertinent to this contract for the purpose of making audits, examinations, excerpts, and transcriptions. Also, both Parties agree to provide FEMA Administrator or his authorized representative access to construction or other work sites pertaining to the work being completed under the Agreement.

26.11 **Rights to Inventions.** CONTRACTOR agrees that if this Agreement results in any copyrightable materials or inventions, the Federal Government reserves a royalty-free, nonexclusive and irrevocable license to reproduce, publish or otherwise use the copyright of said materials or inventions for Federal Government purposes.

26.12 **No Obligation by the Federal Government.** The federal government is not a party to this contract and is not subject to any obligations or liabilities to the non-federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

26.13 **DHS Seal, Logo, and Flags.** CONTRACTOR shall not use DHS(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific federal pre-approval.

26.14 **Compliance with Federal Law, Regulations, and Executive Orders.** This is an acknowledgement that federal financial assistance will be used to fund the Agreement only. CONTRACTOR will comply with all applicable federal law, regulations, executive orders, policies, procedures, and directives.

26.15 **Fraudulent Statements.** CONTRACTOR acknowledges that 31 U.S.C. Chap. 38 applies to CONTRACTOR's actions pertaining to this Agreement.

26.16 **Prohibition on Contracting for Covered Telecommunications Equipment or Services.** As used in this clause, the terms backhaul; covered foreign country; covered telecommunications equipment or services; interconnection arrangements; roaming; substantial or essential component; and telecommunications equipment or services have the meaning as defined in FEMA Policy 405-143-1, Prohibitions on Expending FEMA Award Funds for Covered Telecommunications Equipment or Services (Interim), as used in this clause.

26.16.1 **Prohibitions.**

26.16.1.1 Section 889(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. No. 115-232, and 2 C.F.R. § 200.216 prohibit the head of an executive agency on or after Aug. 13, 2020, from obligating or expending grant, cooperative agreement, loan, or loan guarantee funds on certain telecommunications products or from certain entities for national security reasons.

26.16.1.2 Unless an exception in paragraph 25.16.3 of this clause applies, the CONTRACTOR and its subcontractors may not use grant, cooperative agreement, loan, or loan guarantee funds from the Federal Emergency Management Agency to:



26.16.1.2.1 Procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;

26.16.1.2.2 Enter into, extend, or renew a contract to procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;

26.16.1.2.3 Enter into, extend, or renew contracts with entities that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system; or

26.16.1.2.4 Provide, as part of its performance of this contract, subcontract, or other contractual instrument, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.

26.16.2 **Exceptions.**

26.16.2.1 This clause does not prohibit CONTRACTOR from providing: (i) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or (ii) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

26.16.2.2 By necessary implication and regulation, the prohibitions also do not apply to: (i) Covered telecommunications equipment or services that: i. Are not used as a substantial or essential component of any system; and ii. Are not used as critical technology of any system. (ii) Other telecommunications equipment or services that are not considered covered telecommunications equipment or services.

26.16.3 **Reporting requirement.**

26.16.3.1 In the event CONTRACTOR identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the contractor is notified of such by a subcontractor at any tier or by any other source, the contractor shall report the information in paragraph 25.16.3.2 of this clause to the recipient or subrecipient, unless elsewhere in this contract are established procedures for reporting the information.



26.16.3.2 The CONTRACTOR shall report the following information pursuant to paragraph 25.16.3.1 of this clause: (i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended. (ii) Within ten (10) business days of submitting the information in paragraph 25.16.3.1 of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services. The CONTRACTOR shall insert the substance of this clause, including this in all subcontracts and other contractual instruments.

26.17 **Domestic Preference for Procurements.** As appropriate, and to the extent consistent with law, the CONTRACTOR should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States. This includes, but is not limited to iron, aluminum, steel, cement, and other manufactured products. For purposes of this clause: *Produced in the United States* means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States. *Manufactured products* mean items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

26.18 **Affirmative Socioeconomic Steps.** If subcontracts are to be let, CONTRACTOR is required to take all necessary steps identified in 2 C.F.R. § 200.321(b)(1)-(5) to ensure that small and minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

26.19 **License and Delivery of Works Subject to Copyright and Data Rights.** If applicable, the CONTRACTOR grants to CITY, a paid-up, royalty-free, nonexclusive, irrevocable, worldwide license in data first produced in the performance of this contract to reproduce, publish, or otherwise use, including prepare derivative works, distribute copies to the public, and perform publicly and display publicly such data. For data required by the contract but not first produced in the performance of this contract, CONTRACTOR will identify such data and grant to the CITY or acquires on its behalf a license of the same scope as for data first produced in the performance of this contract. Data, as used herein, shall include any work subject to copyright under 17 U.S.C. § 102, for example, any written reports or literary works, software and/or source code, music, choreography, pictures or images, graphics, sculptures, videos, motion pictures or other audiovisual works, sound and/or video recordings, and architectural works. Upon or before the completion of this contract, CONTRACTOR will deliver to the CONTRACTOR data first



produced in the performance of this contract and data required by the contract but not first produced in the performance of this contract in formats acceptable by CONTRACTOR.

ARTICLE 27 **MISCELLANEOUS**

27.1 **Ownership of Documents.** Reports, surveys, studies, and other data provided in connection with this Agreement are and shall remain the property of CITY, whether or not the project for which they are made is completed.

27.2 **Legal Representation.** It is acknowledged that each party to this Agreement had the opportunity to be represented by counsel in the preparation of this Agreement, and accordingly, the rule that a contract shall be interpreted strictly against the party preparing same shall not apply herein due to the joint contributions of both Parties.

27.3 **Records.** CONTRACTOR shall keep such records and accounts and require any and all subcontractors to keep records and accounts as may be necessary in order to record complete and correct entries as to personnel hours charged to this engagement, and any expenses for which CONTRACTOR expects to be reimbursed. Such books and records will be available at all reasonable times for examination and audit by CITY and shall be kept for a period of ten (10) years after the completion of all work to be performed pursuant to this Agreement. Incomplete or incorrect entries in such books and records will be grounds for disallowance by CITY of any fees or expenses based upon such entries. All records shall be maintained and available for disclosure, as appropriate, in accordance with Chapter 119, Florida Statutes.

27.4 **Assignments; Amendments.** This Agreement, and any interests herein, shall not be assigned, transferred or otherwise encumbered, under any circumstances, by CONTRACTOR without the prior written consent of CITY. For purposes of this Agreement, any change of ownership of CONTRACTOR shall constitute an assignment which requires CITY approval. However, this Agreement shall run to the benefit of CITY and its successors and assigns. It is further agreed that no modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

27.5 **No Contingent Fees.** CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for CONTRACTOR any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, CITY shall have the right to terminate the Agreement without liability at its discretion, to deduct from the contract price, or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.

27.6 **Notice.** Whenever any party desires to give notice unto any other party, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the party for whom it is intended and the remaining party, at the places last specified, and the places for



giving of notice shall remain such until they shall have been changed by written notice in compliance with the provisions of this section. For the present, CONTRACTOR and CITY designate the following as the respective places for giving of notice:

CITY Charles F. Dodge, City Manager
City of Pembroke Pines
601 City Center Way, 4th Floor
Pembroke Pines, Florida 33025
Telephone No. (954) 450-1040

Copy To: Samuel S. Goren, City Attorney
Goren, Cherof, Doody & Ezrol, P.A.
3099 East Commercial Boulevard, Suite 200
Fort Lauderdale, Florida 33308
Telephone No. (954) 771-4500
Facsimile No. (954) 771-4923

CONTRACTOR {--Primary Contact Name---}, {---Primary Contact Title---}
{--Company Name---}
{--Street1---}, {---Street2---}
{--City---}, {--State/Province---} ---Postal Code---
E-mail: {--E-mail---}
Telephone No: {--Phone---}
Cell phone No: {--Primary Contact Cell Phone Number---}
Facsimile No: {--Fax---}

27.7 **Binding Authority.** Each person signing this Agreement on behalf of either party individually warrants that he or she has full legal power to execute this Agreement on behalf of the party for whom he or she is signing, and to bind and obligate such party with respect to all provisions contained in this Agreement.

27.8 **Headings.** Headings herein are for the convenience of reference only and shall not be considered in any interpretation of this Agreement.

27.9 **Exhibits.** Each exhibit referred to in this Agreement forms an essential part of this Agreement. The exhibits, if not physically attached, should be treated as part of this Agreement and are incorporated herein by reference.

27.10 **Severability.** If any provision of this Agreement or application thereof to any person or situation shall to any extent, be held invalid or unenforceable, the remainder of this Agreement, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable, shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.



27.11 **Entire Agreement and Conflicts.** This Agreement is intended by the parties hereto to be final expression of this Agreement, and it constitutes the full and entire understanding between the parties with respect to the subject hereof, notwithstanding any representations, statements, or agreements to the contrary heretofore made. In the event of a conflict between this Agreement, Exhibit “A”, and Exhibit “B”, this Agreement shall prevail, followed by Exhibit “A”, and then Exhibit “B”.

27.12 **Waiver.** Failure of CITY to insist upon strict performance of any provision or condition of this Agreement, or to execute any right therein contained, shall not be construed as a waiver or relinquishment for the future of any such provision, condition, or right, but the same shall remain in full force and effect.

27.13 **Attorneys’ Fees.** In the event that either party brings suit for enforcement of this Agreement, each party shall bear its own attorney's fees and court costs, except as otherwise provided under the indemnification provisions set forth herein above.

27.14 **Protection of CITY Property.** At all times during the performance of this Agreement, CONTRACTOR shall protect CITY's property from all damage whatsoever on account of the work being carried on under this Agreement.

27.15 **Counterparts and Execution.** This Agreement may be executed by hand or electronically in multiple originals or counterparts, each of which shall be deemed to be an original and together shall constitute one and the same agreement. Execution and delivery of this Agreement by the Parties shall be legally binding, valid and effective upon delivery of the executed documents to the other party through facsimile transmission, email, or other electronic delivery.

27.16 **Compliance with Statutes.** It shall be the CONTRACTOR’s responsibility to be aware of and comply with all statutes, ordinances, rules, orders, regulations and requirements of all local, City, state, and federal agencies as applicable.

27.16.1 **Services to be Performed at CITY Schools.** CONTRACTOR shall comply with Chapter 1012, Florida Statutes, which requires Level II background screening for individuals whom are vendors performing services at a Florida public school or district, if applicable.

27.16.2 **Background Screening.** CONTRACTOR shall comply with all requirements of Sections 1012.32 and 1012.465, Florida Statutes, and for the purpose of on-site services, all of its personnel who are to be permitted access to school grounds when students are present, will successfully complete the background screening required by the referenced statutes and meet the standards established by the statutes. This background screening will be conducted by CONTRACTOR in advance of personnel providing any services under the conditions described in the previous sentence. CONTRACTOR respectively shall bear the cost of acquiring the background screening required by Section 1012.32, Florida Statutes, and any fee imposed by the Florida Department of Law Enforcement. The failure of CONTRACTOR to perform any of the duties described in this section shall constitute a material breach of Agreement. CONTRACTOR agrees to indemnify and hold harmless CITY, its elected and



appointed officials, officers, employees, and agents from any liability in the form of physical or mental injury, death, or property damage resulting from the CONTRACTOR's failure to comply with the requirements of this Section or with Sections 1012.32 and 1012.465, Florida Statutes.

SIGNATURE PAGE FOLLOWS



IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written above.

CITY:

CITY OF PEMBROKE PINES, FLORIDA

APPROVED AS TO FORM:

BY: _____

Print Name: _____
OFFICE OF THE CITY ATTORNEY

MAYOR ANGELO CASTILLO

ATTEST:

BY: _____

CHARLES F. DODGE, CITY MANAGER

DEBRA E. ROGERS, CITY CLERK

CONTRACTOR:

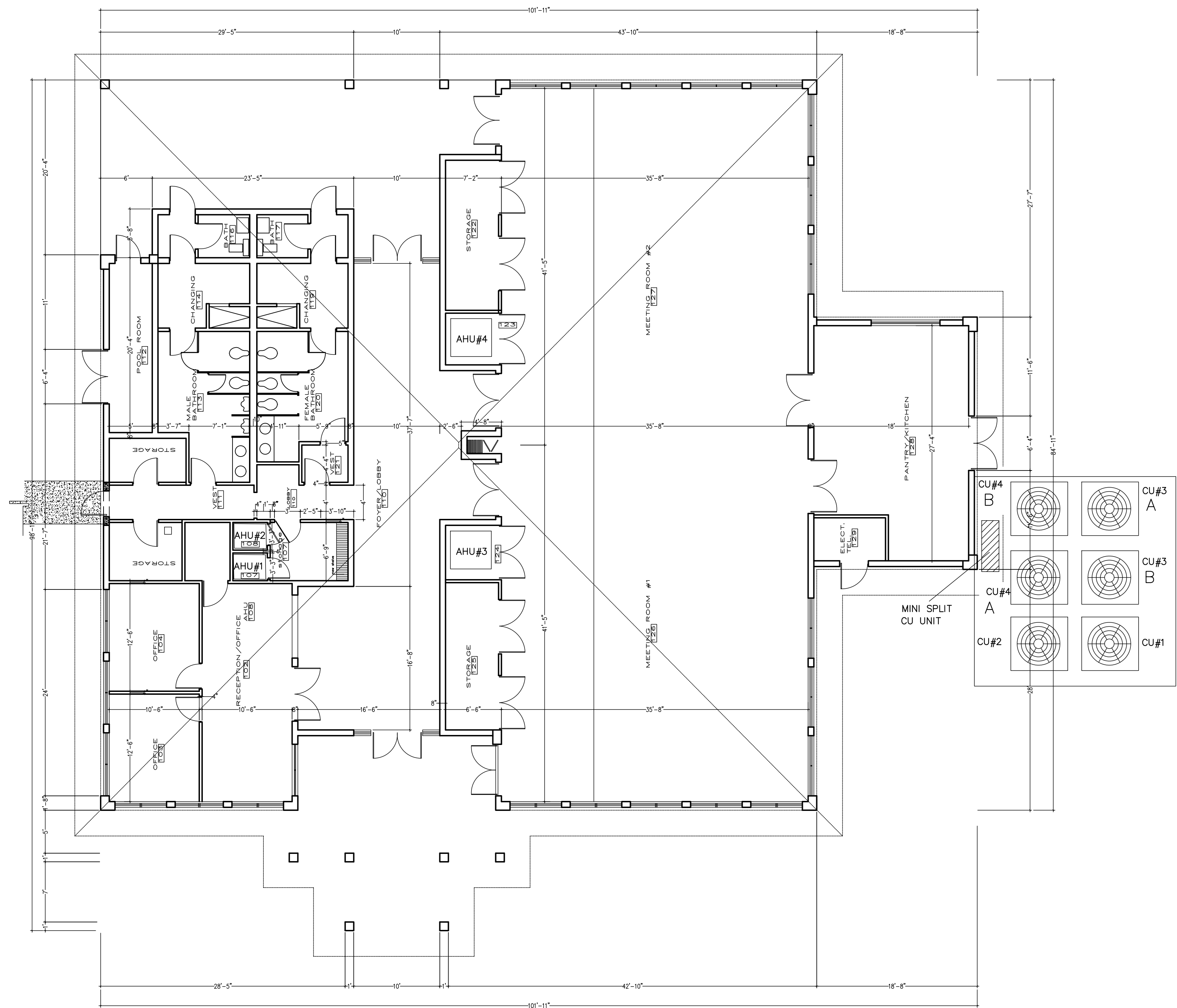
{---Company Name---}

Signed By: _____

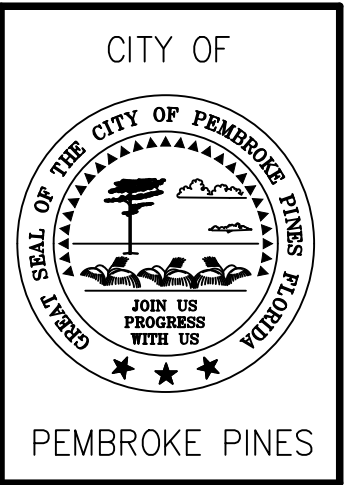
Printed Name: _____

Title: _____

Attachment E: Rose Price Park - Plans / Drawings



FLOOR PLAN SCALE: 1/8" = 1'-0"



REVISIONS	BY
△	--
△	--

LICENSE NO.

SEAL

PROJECT
AC ROSE PRICE PARK

AS IND

DRAWN BY:

A. NUNEZ

DESCRIPTION

AC



34 N.W. 168th Street
 North Miami Beach, FL 33169
 Telephone: (305) 653-0212
 Fax: (305) 653-0232
 e-mail: fesmain@bellsouth.net

April 22, 2024

CITY OF PEMBROKE PINES – HVAC EQUIPMENT REPLACEMENT PROJECT

To: All Bidders

Facility Name: **Rose Price Park**

Address: 901 NW 208th Avenue, Pembroke Pines, Florida

Basic Scope of Work – Replacement of (4) – existing Split Systems

- (1) - Existing AHU-1 MFG/Model # - TRANE/TWV048B, CU-1 RHEEM/13ACA48A01757 (Not a rated combination)
- (1) – Existing AHU-2 MFG/Model # - TRANE/TWE060A (Split Coil), CU-2 LUXAIRE (Faded tag) 2 circuit/2 compressor. 1 circuit has underground leak.
- (1) – Existing AHU-3 MFG/Model # - TRANE/TWE120B (Split Coil), (1) CU-3A TRANE/TTA0603A + (1) CU-3B TRANE/TTA0603A
- (1) – Existing AHU-4 MFG/Model # - TRANE/TWE0120B (Split Coil), (1) CU-4A TRANE /TTA04830 + (1) CU-4B TRANE /TTA0603000A

New Equipment Schedule:

Condensing Unit Tag	CU-1	CU-2	CU-3A	CU-3B	CU-4A	CU-4B
Manufacturer	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
Nominal Tons	4.0	5.0	5.0	5.0	5.0	5.0
EER / IEER or SEER2	15.0	12.0/16.0	14.25	Existing system to remain in service. Not part of scope.	14.25	14.25
Refrigerant	R410a	R410a	R410a		R410a	R410a
Condenser Model	4TTA4048A3	4TTR6060N1	4TTA4060A3		4TTA4060A3	4TTA4060A3
Total Capacity - MBH	49.0	57.6	61		61	61
Sensible Capacity - MBH	37.0	44.4	43		43	43
Compressor - Qty-Type	1	1	1		1	1
Compressor - RLA-LRA	13.8 – 83.0	1 – 32.1	15.9-110		15.9-110	15.9-110
Condenser Fan - HP-FLA	1/5 – 1.05	0.25 – 1.3	1/8-1.05		1/8-1.05	1/8-1.05
Voltage	208-3-60	208-1-60	208-3-60		208-3-60	208-3-60
MCA	18	35	21		21	21
MOCP	30	60	35		35	35
Dimensions - W x D x H (in.)	37.2x25x29.1	34.2x37.2x45.1	37.2x25x37.1		37.2x25x37.1	37.2x25x37.1
Weight - lbs	189	275	211		211	211
Circuits	1	1	1		1	1
Liquid Line	3/8	3/8	3/8		3/8	3/8
Suction Line	7/8	1-1/8	7/8		7/8	7/8
AHU Tag	AHU-1	AHU-2	AHU-3	AHU-4		
AHU Model	TEM6A0C48H41	TEM6B0C60H51	TWE120B3 (Split Coil)	TWE120B3 (Split Coil)		
Entering Air - DB/WB	80/67	80/67	80/67	80/67		
CFM	1600	2000	4000	4000		
ESP	0.5	0.5	1.0	1.0		
Leaving Air - DB/WB	58/56.9	57.5/56.9	59.5/57.9	59.5/57.9		
Blower Motor - HP/FLA	¾ / 6.8	0.75 / 6.8	3 / 10.0	3 / 10.0		
Electric Heater Kw	7.2	7.2	11.25	11.25		
Voltage	208-1-60	208-1-60	208-3-60	208-3-60		
MCA	52	36	38	38		
MOCP	60	40	60	60		
Filters - Qty-Size	See MFG Specs	See MFG Specs	See MFG Specs	See MFG Specs		
Dimensions - W x D x H (in.)	23.5x21.1x57.4	23.5x21.1x57.1	63.5x25.5x54.1	63.5x25.5x54.1		
Weight - lbs	144	174	393	393		

AHU-3,4 Notes: Provide single piece horizontal AHU with factory installed belt driven motor, noncorrosive composite drain pan, single point power connection, factory installed thermal expansion valve, field installed electric heat, OEM programmable thermostat.

CU-1, 3A, 4A, 4B Notes: Provide single stage condensing unit with factory installed composite base, aluminum condenser coil, field installed OEM programmable thermostat.

AHU-1 Notes: Provide field installed filtered return, factory installed PSC motor, noncorrosive drain pan, aluminum evaporator coil with thermal expansion valve.

AHU-2 Notes: Provide field installed filtered return, factory installed EC motor (variable speed), noncorrosive drain pan, aluminum evaporator coil with electronic expansion valve, control wiring to CU-2 to allow for 2-stage operation.

CU-2 Notes: Provide 2 stage compressor, spine fin coil.

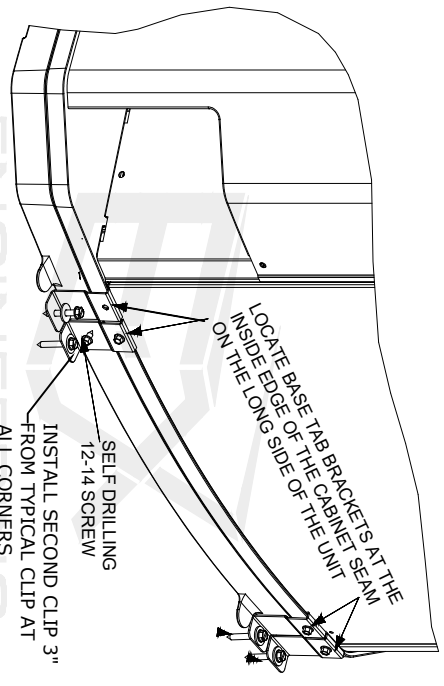
Instructions to bidders:

- Visit project site and become familiar with existing equipment, accessories, and conditions prior to submitting bid documents.
- Follow City of Pembroke Pines Bidding Instructions.
- Legally remove and dispose of existing equipment slated for replacement.
- All existing refrigerant piping is to be re-used. Refrigerant piping serving R22 systems is to be fully flushed free oil using approved chemicals and procedures.
- Provide new refrigerant piping line set (1-1/8" vapor, 3/8" liquid) for CU-2, Type "L" or type "ACR" copper. New line set to be installed in existing attic space. Vapor line to be fully insulated with ¾" elastomeric insulation. Existing line sets to be capped and abandoned in place.
- Provide new 60A circuit breaker (at existing panel) and 60A disconnect switch for CU-2.
- Existing disconnect switches and circuit breakers to be replaced as needed by new equipment.
- New air handler to be connected to existing condensate drain line. Provide new condensate trap as required by equipment manufacturer.
- Install new fresh air intake dampers in existing fresh air intake duct. Location of duct to be verified in field. Diameter/size to be measured in field. The damper to have 24V actuator wired to AHU control block. Damper to be open when condensing unit is on, closed when condensing unit is off.
- Existing duct detectors to be re-used and wired to shut off the new air handlers upon detection of smoke, etc. per existing fire alarm sequence of operations.
- New AHUs to be set on new aluminum stand, provided with new internal float switch.
- Condensing unit to be tied down to existing concrete pads in accordance with the manufacturer's engineered tie down system.
- Existing disconnect switch serving CUs to be replaced with new disconnect switch with manufacturer recommended amperage.
- Exposed refrigerant pipe insulation that is damaged shall be replaced with ¾" elastomeric insulation, painted per manufacturer's recommendations.
- Corroded exterior refrigerant pipe supports shall be replaced like for like.
- Technical questions may be emailed to alberts@fesinc.biz.

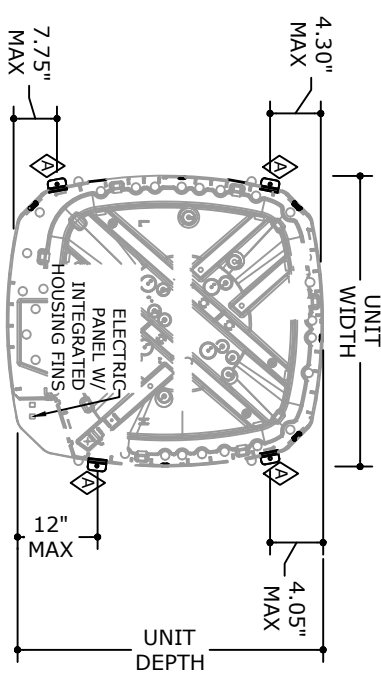
Thank you.

Sincerely,
 FES, Inc.

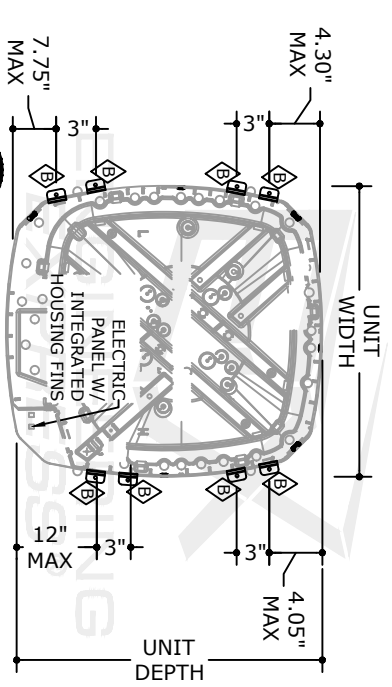
Albert Shub, P.E. LEED AP
 President, Engineer of Record



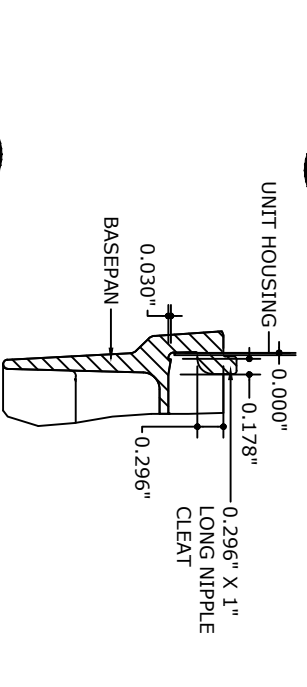
1 (2) BASE CLIPS PER CORNER
SCALE: N.T.S. ISOM.



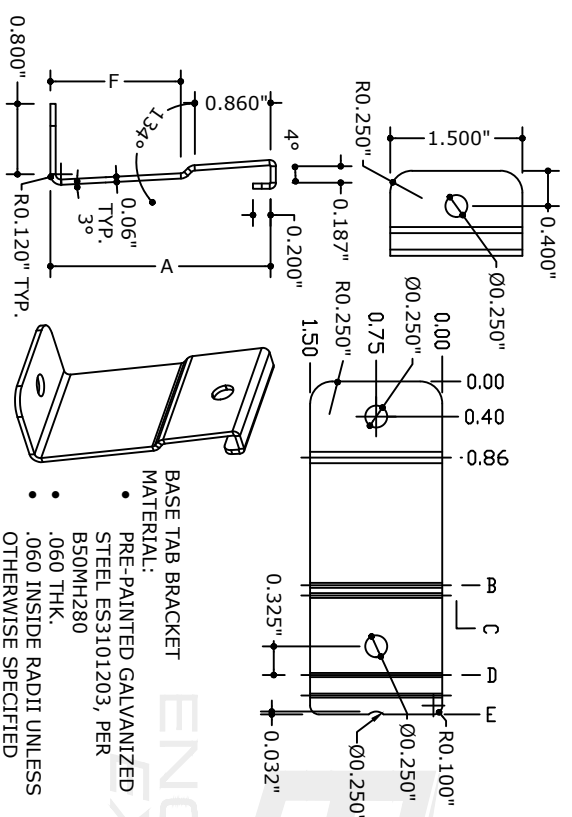
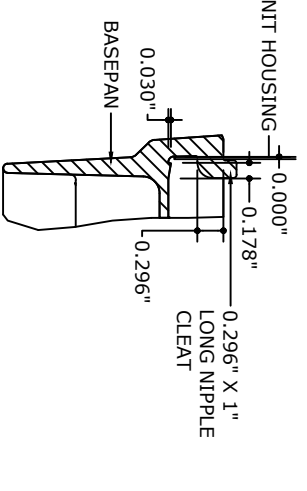
4 CONNECTION LAYOUT A
SCALE: N.T.S. PLAN VIEW



5 CONNECTION LAYOUT B
SCALE: N.T.S. PLAN VIEW



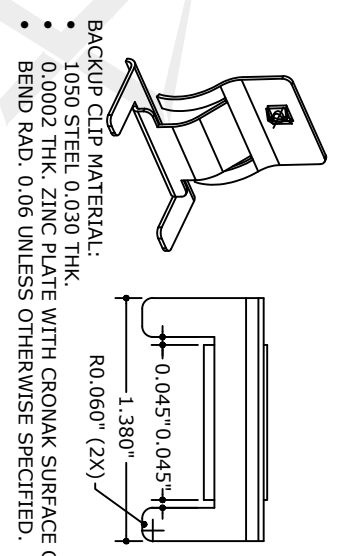
6 A/C HOUSING CLEAT
SCALE: N.T.S. SECTION



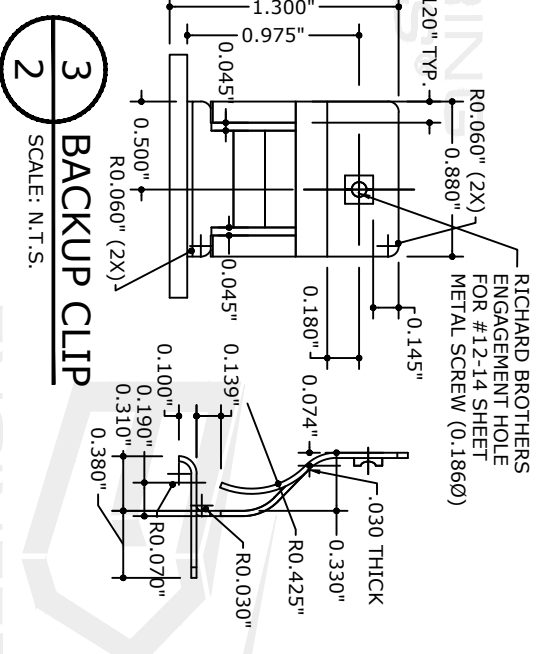
PART NO.	A	B	C	D	E	F	USE WITH LAYOUT
DIS3086P01	250	232	243	333	378	148	B
DIS3086P02	210	191	203	293	338	108	A

2 BASE TAB BRACKETS
SCALE: N.T.S.

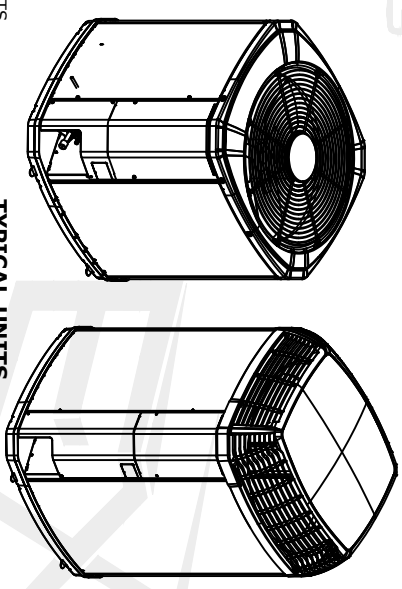
BASE TAB BRACKET MATERIAL:
 • PRE-PAINTED GALVANIZED STEEL ES3101203, PER B50MH280
 • .060 THK.
 • .060 INSIDE RADIUS UNLESS OTHERWISE SPECIFIED



BACKUP CLIP MATERIAL:
 • 1050 STEEL 0.030 THK.
 • 0.0002 THK. ZINC PLATE WITH CRONAK SURFACE CONVERSION.
 • BEND RAD. 0.06 UNLESS OTHERWISE SPECIFIED.



3 BACKUP CLIP
SCALE: N.T.S.



UNIT MODELS

FRAME UNITS

TYPICAL UNITS

DESIGNATION	UNIT WIDTH	UNIT DEPTH	UNIT HEIGHT	ALLOWABLE WIND PRESSURE RATING	APPLICABLE ANCHOR TYPES: SEE ANCHOR NOTES FOR A DESCRIPTION OF ANCHOR TYPE #1 OR #2	LAYOUT OF BASE TAB BRACKETS:
TYPE XB / XR / XV	25.69 IN	28.42 IN	32.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	25.69 IN	28.42 IN	25.60 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	29.69 IN	32.65 IN	40.70 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	29.69 IN	32.65 IN	28.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV*	34.29 IN	37.29 IN	45.17 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	34.29 IN	37.29 IN	29.18 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XL / XV**	34.29 IN	37.29 IN	53.86 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT B
TYPE XL / XV	29.69 IN	32.65 IN	48.00 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT B
TYPE XL / XV	34.29 IN	37.29 IN	41.88 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XL / XV	29.69 IN	32.65 IN	39.94 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A

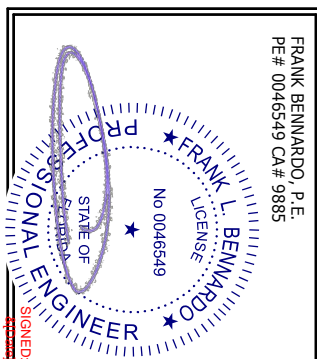
ANCHOR NOTES:

- SEE ISOMETRIC BASE LAYOUTS (DETAILS 2/1 AND 1/2) FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. UTILIZE 0.625" O.D. x 0.280" I.D. x 0.059" THICK WASHER @ BASE CLIP.
- ANCHOR TYPE #1: CONSIDERS HILLTI KWIK-CON II+ CARBON STEEL TAPCONS OR EQUIVALENT W/ 1-3/4" MIN EMBED, 2-1/2" MIN EDGE DISTANCE AND 3" MIN SPACING (UNLESS NOTED OTHERWISE), FASTENED TO MINIMUM 3,000 PSI EXISTING CONCRETE AS VERIFIED BY OTHERS.
- ANCHOR TYPE #2: CONSIDERS SHEET METAL SCREWS (SMS) AS SPECIFIED HEREIN SHALL BE MINIMUM - SAE GRADE 5 ASTM A449 - SPACED THREAD W/ MIN (5) PITCHES PAST THREAD PLANE, INTO MINIMUM 1/8" THICK A36 STEEL. USE #14-14 SMS SCREWS WITH 5/8" EDGE DISTANCE FOR STEEL HOST STRUCTURE.
- MINIMUM EMBEDMENT SHALL BE AS NOTED. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, INSULATION, AND OTHER FINISHES.

TABLE DIRECTIONS:

- SELECT DESIRED UNIT SIZE.
- SELECT APPLICABLE ANCHOR TYPE UNDER CONSIDERATION AS VERIFIED BY OTHERS.
- MATCH UNIT SIZE WITH THE INTENDED HOST STRUCTURE AND OBSERVE MAXIMUM ALLOWABLE WIND PRESSURE FOR THE SYSTEM, SITE-SPECIFIC REQUIRED WIND PRESSURES PER SEPARATE CERTIFICATION OR BY OTHERS.
- UTILIZE LAYOUT AS LISTED IN TABLE.

*UNIT WEIGHT = 245 LB
 **UNIT WEIGHT = 302 LB (DEFAULT UNIT WEIGHT = 120 LB)
 †-DOWN CONFIGURATIONS REQUIRE (1) OR (2) BRACKETS PER CORNER. SEE 4/2 OR 5/2 FOR ILLUSTRATION.



FRANK BENMARRO, P.E.
 PE# 0046549 CA# 9885

FL

FL 19588.3

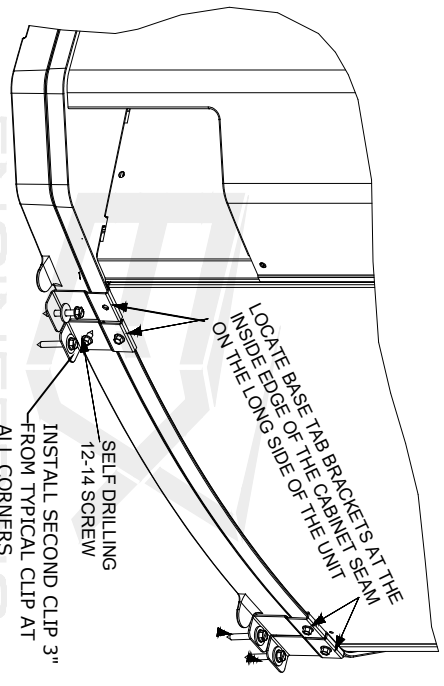
ENGINEERING EXPRESS
 POSTAL ADDRESS:
 2234 NORTH FEDERAL HWY # 7664
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TRANE TECHNOLOGIES
 6200 TROUP HWY
 TYLER, TX 75707
 PHONE: (903) 730-4602
 TRANE CONDENSER (GROUND MOUNTED)
 FLORIDA BUILDING CODE EIGHTH EDITION (2023)
 FLORIDA STATEWIDE APPROVAL (FSA)

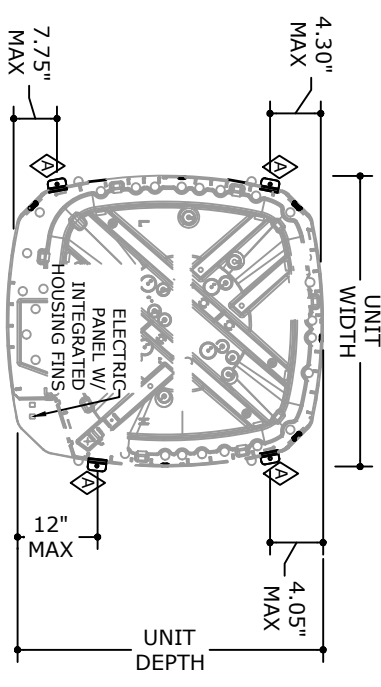
REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28643)	CCB	RWN	07/08/20
2023 FBC UPDATE	EPR	RWN	10/23/23

SCALE: N.T.S. UNLESS NOTED
 23-68290
 2 OF 2

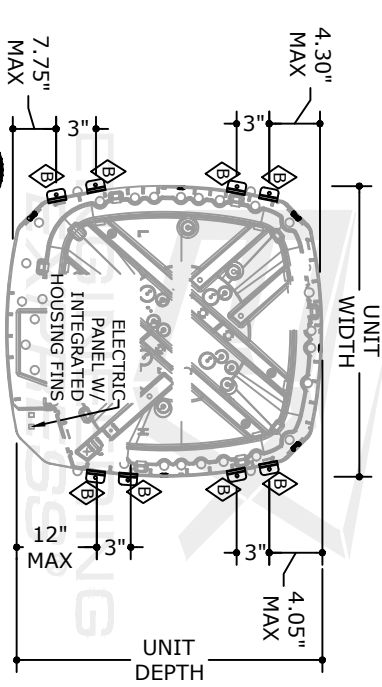
OCTOBER 19, 2023



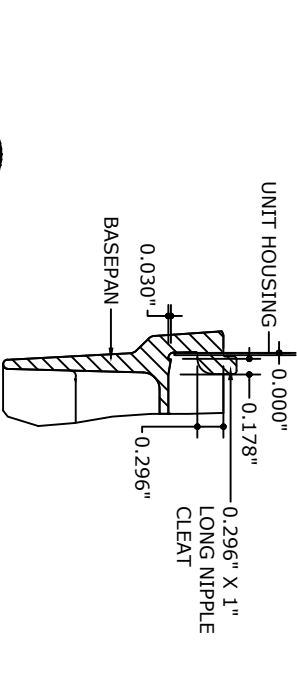
1 (2) BASE CLIPS PER CORNER
SCALE: N.T.S. ISOM.



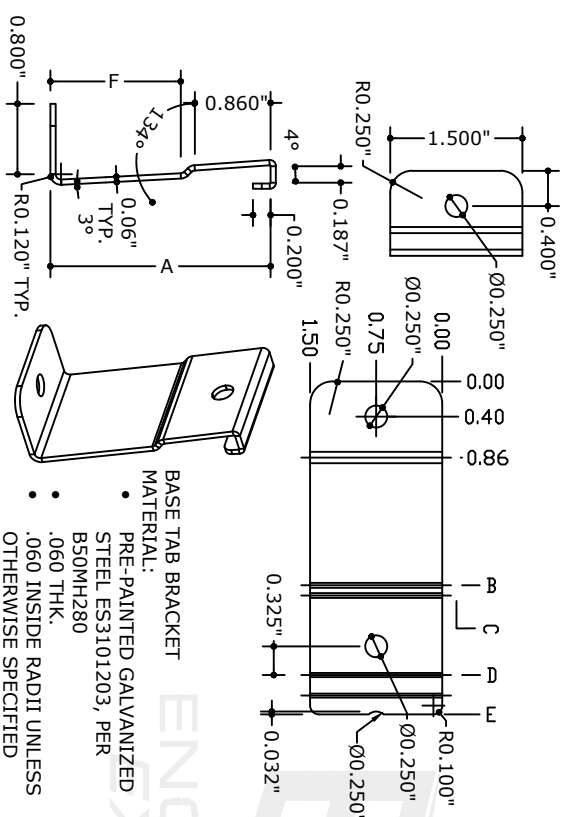
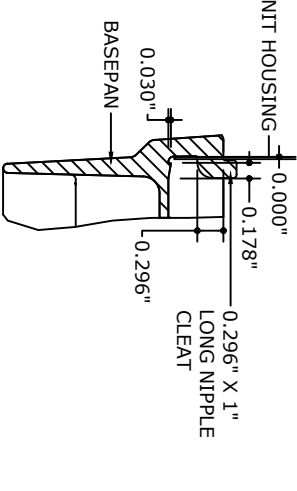
4 CONNECTION LAYOUT A
SCALE: N.T.S. PLAN VIEW



5 CONNECTION LAYOUT B
SCALE: N.T.S. PLAN VIEW



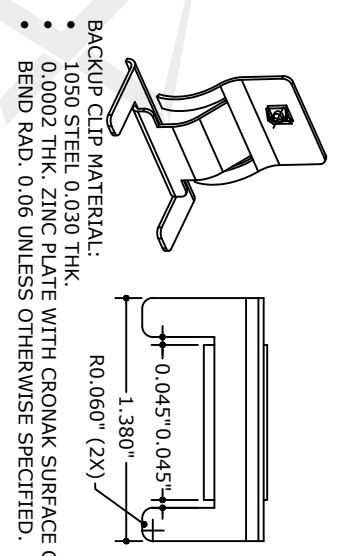
6 A/C HOUSING CLEAT
SCALE: N.T.S. SECTION



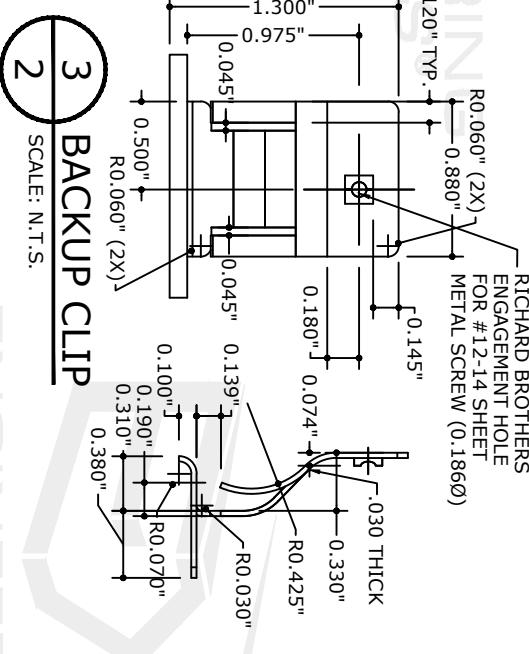
PART NO.	A	B	C	D	E	F	USE WITH LAYOUT
DIS3086P01	250	232	243	333	378	148	B
DIS3086P02	210	191	203	293	338	108	A

2 BASE TAB BRACKETS
SCALE: N.T.S.

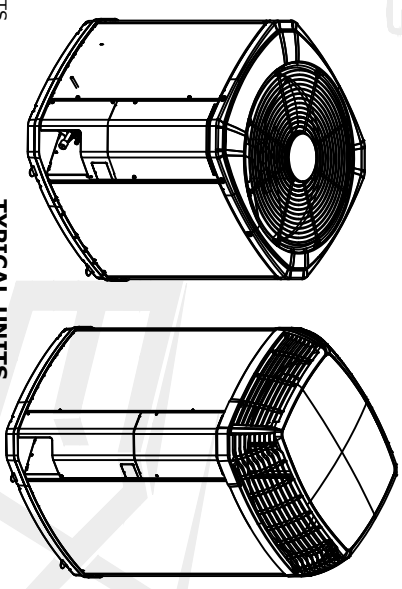
BASE TAB BRACKET MATERIAL:
 • PRE-PAINTED GALVANIZED STEEL ES3101203, PER B50MH280
 • .060 THK.
 • .060 INSIDE RADIUS UNLESS OTHERWISE SPECIFIED



BACKUP CLIP MATERIAL:
 • 1050 STEEL 0.030 THK.
 • 0.0002 THK. ZINC PLATE WITH CRONAK SURFACE CONVERSION.
 • BEND RAD. 0.06 UNLESS OTHERWISE SPECIFIED.



3 BACKUP CLIP
SCALE: N.T.S.



TYPICAL UNITS

DESIGNATION	UNIT WIDTH	UNIT DEPTH	UNIT HEIGHT	ALLOWABLE WIND PRESSURE RATING	APPLICABLE ANCHOR TYPES: SEE ANCHOR NOTES FOR A DESCRIPTION OF ANCHOR TYPE #1 OR #2	LAYOUT OF BASE TAB BRACKETS:
TYPE XB / XR / XV	25.69 IN	28.42 IN	32.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	25.69 IN	28.42 IN	25.60 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	29.69 IN	32.65 IN	40.70 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	29.69 IN	32.65 IN	28.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV*	34.29 IN	37.29 IN	45.17 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	34.29 IN	37.29 IN	29.18 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XL / XV**	34.29 IN	37.29 IN	53.86 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT B
TYPE XL / XV	29.69 IN	32.65 IN	48.00 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT B
TYPE XL / XV	34.29 IN	37.29 IN	41.88 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XL / XV	29.69 IN	32.65 IN	39.94 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A

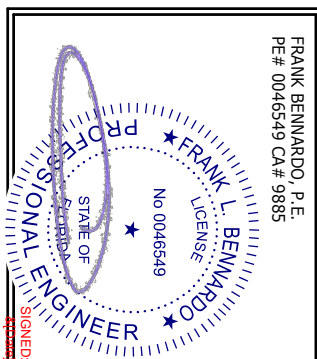
ANCHOR NOTES:

- SEE ISOMETRIC BASE LAYOUTS (DETAILS 2/1 AND 1/2) FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. UTILIZE 0.625" O.D. x 0.280" I.D. x 0.059" THICK WASHER @ BASE CLIP.
- ANCHOR TYPE #1: CONSIDERS HILLTI KWIK-CON II+ CARBON STEEL TAPCONS OR EQUIVALENT W/ 1-3/4" MIN EMBED, 2-1/2" MIN EDGE DISTANCE AND 3" MIN SPACING (UNLESS NOTED OTHERWISE), FASTENED TO MINIMUM 3,000 PSI EXISTING CONCRETE AS VERIFIED BY OTHERS.
- ANCHOR TYPE #2: CONSIDERS SHEET METAL SCREWS (SMS) AS SPECIFIED HEREIN SHALL BE MINIMUM - SAE GRADE 5 ASTM A449 - SPACED THREAD W/ MIN (5) PITCHES PAST THREAD PLANE, INTO MINIMUM 1/8" THICK A36 STEEL. USE #14-14 SMS SCREWS WITH 5/8" EDGE DISTANCE FOR STEEL HOST STRUCTURE.
- MINIMUM EMBEDMENT SHALL BE AS NOTED. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, INSULATION, AND OTHER FINISHES.

TABLE DIRECTIONS:

- SELECT DESIRED UNIT SIZE.
- SELECT APPLICABLE ANCHOR TYPE UNDER CONSIDERATION AS VERIFIED BY OTHERS.
- MATCH UNIT SIZE WITH THE INTENDED HOST STRUCTURE AND OBSERVE MAXIMUM ALLOWABLE WIND PRESSURE FOR THE SYSTEM, SITE-SPECIFIC REQUIRED WIND PRESSURES PER SEPARATE CERTIFICATION OR BY OTHERS.
- UTILIZE LAYOUT AS LISTED IN TABLE.

*UNIT WEIGHT = 245 LB
 **UNIT WEIGHT = 302 LB (DEFAULT UNIT WEIGHT = 120 LB)
 †E-DOWN CONFIGURATIONS REQUIRE (1) OR (2) BRACKETS PER CORNER. SEE 4/2 OR 5/2 FOR ILLUSTRATION.



SIGNED: _____

FL 19588.3

ENGINEERING EXPRESS
 POSTAL ADDRESS:
 2234 NORTH FEDERAL HWY # 7664
 BOCA RATON, FL 33431
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REMARKS	DRWN	CHKD	DATE
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SCALE: N.T.S. UNLESS NOTED
23-68290
 2 OF 2

ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

October 19, 2023

Application Number: FL 19588.3
EX Project Number: 23-68290

Product Manufacturer: Trane Technologies
Manufacturer Address: 6200 Troup Hwy
Tyler, TX 75707, USA

Product Name & Description: Trane Condenser (Ground Mounted)

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-68290 titled "TRANE CONDENSER (GROUND MOUNTED)", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 2.

- **TEST REPORTS**

The product has been tested per the following:

Test Lab	Test Report #	Test Standard	Test Description	Signed & Sealed By:
American Test Lab of South Florida	0708.01-15	ASTM E330, TAS 202	Uniform Static Wind Loading	Stephen Warter, P.E.

Trane Technologies – Trane Condenser (Ground Mounted)

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Minimum Allowable Unit Width
2. Maximum Allowable Unit Height
3. Minimum Unit Weight
4. Maximum Allowable Unit Surface Area
5. Clip Configuration and Anchor Spacing
6. Anchor Capacity for Various Substrates

Impact Resistance:

Impact Resistance has not been demonstrated.

Wind Load Resistance:

This product has been designed to resist wind loads as indicated on its respective Performance Evaluation document (i.e. engineering document).

Installation:

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions that are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

Frank Bennardo, P.E.
ENGINEERING EXPRESS®
#PE0046549 | Cert. Auth. 9885



Certificate of Product Ratings

AHRI Certified Reference Number : 9131852 Date : 04-17-2024 Model Status : Production Stopped

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Series : XR14

Outdoor Unit Brand Name : TRANE

Outdoor Unit Model Number (Condenser or Single Package) : 4TTA4048A4

Indoor Unit Model Number (Evaporator and/or Air Handler) : TEM6A0C48H41+TDR+UF/HRZ

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 48000

SEER : 15.00

EER (A2) - Single or High Stage (95F) : 13.00



†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

133578389004048387



Certificate of Product Ratings

AHRI Certified Reference Number : 208155418 Date : 04-17-2024 Model Status : Active

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Outdoor Unit Brand Name : TRANE

Outdoor Unit Model Number (Condenser or Single Package) : 4TTR4060N1

Indoor Unit Model Number (Evaporator and/or Air Handler) : TEM6B0C60H51+TDR

Region : All (AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, ID, IL, IA, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WV, WI, WY, U.S. Territories)

Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 56000

SEER2 : 14.60

EER2 (A_{Full}) – Single or High Stage (95F) : 12.00



†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRI.net.org for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

133578392237402331

Air System Sizing Summary for AHU-1 Offices

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:20PM

Air System Information

Air System Name: **AHU-1 Offices**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **710.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	3.9 Tons	Load occurs at:	Jul 1600
Total coil load:	46.9 MBH	OA DB / WB:	91.7/78.9 F
Sensible coil load:	35.6 MBH	Entering DB / WB:	77.2/64.6 F
Coil airflow:	1483 CFM	Leaving DB / WB:	54.9/53.8 F
Sensible heat ratio:	0.760	Coil ADP:	52.4 F
Area per unit load:	181.8 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	66.0 BTU/(hr-sqft)	Resulting RH:	49 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	16.3 MBH	Load occurs at:	Des Htg
Coil airflow:	1483 CFM	Ent DB / Lvg DB:	67.6/77.8 F
Load per unit area:	23.0 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	1483 CFM	Fan motor BHP:	0.43 BHP
Standard airflow:	1482 CFM	Fan motor kW:	0.32 kW
Actual max airflow per unit area:	2.09 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	160 CFM	Airflow per person:	20.00 CFM/person
Airflow per unit floor area:	0.23 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-1 Offices	32.0	1483	Jul 1600	12.8	710.0	2.09

System Design Load Summary for AHU-1 Offices

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:20PM

	DESIGN COOLING			DESIGN HEATING		
	Jul 1600			Design Heating Day		
	OA DB / WB 91.7 F / 78.9 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	366 sqft	14625	-	366 sqft	-	-
Wall Transmission	210 sqft	513	-	210 sqft	564	-
Roof Transmission	710 sqft	1824	-	710 sqft	1534	-
Window Transmission	366 sqft	5710	-	366 sqft	9223	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	0 sqft	0	-	0 sqft	0	-
Floor Transmission	710 sqft	0	-	710 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	660 W	2253	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	829	2029	-	1492	1
Miscellaneous	-	3000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	32018	4189	-	12814	1
Thermostat and Pulldown Adjustment	-	-302	0	-	448	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	160 CFM	2805	7049	160 CFM	4182	0
Supply Fan Load	1483 CFM	1099	-	1483 CFM	-1099	-
>> Total System Loads	-	35620	11238	-	16344	1
Central Cooling Coil	-	35620	11242	-	0	0
Central Heating Coil	-	0	-	-	16344	-
>> Total Coil Loads	-	35620	11242	-	16344	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-1 Offices

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:20PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	366 sqft	14221	-	366 sqft	-	-
Wall Transmission	210 sqft	508	-	210 sqft	564	-
Roof Transmission	710 sqft	1764	-	710 sqft	1534	-
Window Transmission	366 sqft	5748	-	366 sqft	9223	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	0 sqft	0	-	0 sqft	0	-
Floor Transmission	710 sqft	0	-	710 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	660 W	2253	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	846	2016	-	1492	1
Miscellaneous	-	3000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	31604	4176	-	12814	1

Air System Sizing Summary for AHU-2 Foyer/Baths

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:28PM

Air System Information

Air System Name: **AHU-2 Foyer/Baths**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **1550.9** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	4.8 Tons	Load occurs at:	Jul 1500
Total coil load:	57.9 MBH	OA DB / WB:	92.0/79.0 F
Sensible coil load:	35.8 MBH	Entering DB / WB:	80.5/68.6 F
Coil airflow:	1302 CFM	Leaving DB / WB:	55.0/54.1 F
Sensible heat ratio:	0.618	Coil ADP:	52.2 F
Area per unit load:	321.3 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	37.4 BTU/(hr-sqft)	Resulting RH:	51 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	24.2 MBH	Load occurs at:	Des Htg
Coil airflow:	1302 CFM	Ent DB / Lvg DB:	62.5/79.7 F
Load per unit area:	15.6 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	1302 CFM	Fan motor BHP:	0.38 BHP
Standard airflow:	1301 CFM	Fan motor kW:	0.28 kW
Actual max airflow per unit area:	0.84 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	400 CFM	Airflow per person:	50.00 CFM/person
Airflow per unit floor area:	0.26 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-2 Foyer/Baths	28.1	1302	Jul 1600	15.0	1550.9	0.84

System Design Load Summary for AHU-2 Foyer/Baths

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:28PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	120 sqft	1974	-	120 sqft	-	-
Wall Transmission	597 sqft	1335	-	597 sqft	1605	-
Roof Transmission	1551 sqft	3854	-	1551 sqft	3350	-
Window Transmission	120 sqft	1885	-	120 sqft	3024	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	192 sqft	5714	-	192 sqft	4686	-
Floor Transmission	1551 sqft	0	-	1551 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	1039 W	3545	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	1335	3066	-	2355	1
Miscellaneous	-	5000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	27905	5226	-	15019	1
Thermostat and Pulldown Adjustment	-	-205	0	-	-132	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	400 CFM	7158	16877	400 CFM	10296	0
Supply Fan Load	1302 CFM	965	-	1302 CFM	-965	-
>> Total System Loads	-	35823	22103	-	24218	1
Central Cooling Coil	-	35823	22106	-	0	0
Central Heating Coil	-	0	-	-	24218	-
>> Total Coil Loads	-	35823	22106	-	24218	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-2 Foyer/Baths

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:28PM

	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	120 sqft	1974	-	120 sqft	-	-
Wall Transmission	597 sqft	1335	-	597 sqft	1605	-
Roof Transmission	1551 sqft	3854	-	1551 sqft	3350	-
Window Transmission	120 sqft	1885	-	120 sqft	3024	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	192 sqft	5714	-	192 sqft	4686	-
Floor Transmission	1551 sqft	0	-	1551 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	1039 W	3545	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	1335	3066	-	2355	1
Miscellaneous	-	5000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	27905	5226	-	15019	1

Air System Sizing Summary for AHU-3-Meeting Room #1

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:40PM

Air System Information

Air System Name: **AHU-3-Meeting Room #1**
 Air System Type: **Single Zone CAV**

Number of zones: **1**
 Floor Area: **2090.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**

Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load: **9.7** Tons
 Total coil load: **116.9** MBH
 Sensible coil load: **71.7** MBH
 Coil airflow: **2896** CFM
 Sensible heat ratio: **0.613**
 Area per unit load: **214.5** sqft/Ton
 Load per unit area: **56.0** BTU/(hr-sqft)

Load occurs at: **Aug 1400**
 OA DB / WB: **91.7/78.9** F
 Entering DB / WB: **79.2/68.4** F
 Leaving DB / WB: **56.3/55.4** F
 Coil ADP: **53.7** F
 Bypass Factor: **0.100**
 Resulting RH: **56** %
 Design supply temp: **55.0** F

Central Heating Coil Sizing Data

Max coil load: **43.4** MBH
 Coil airflow: **2896** CFM
 Load per unit area: **20.8** BTU/(hr-sqft)

Load occurs at: **Des Htg**
 Ent DB / Lvg DB: **64.2/78.1** F

Supply Fan Sizing Data

Actual max airflow: **2896** CFM
 Standard airflow: **2894** CFM
 Actual max airflow per unit area: **1.39** CFM/sqft

Fan motor BHP: **0.84** BHP
 Fan motor kW: **0.63** kW
 Fan static: **1.00** in wg

Outdoor Ventilation Air Data

Design airflow: **700** CFM
 Airflow per unit floor area: **0.33** CFM/sqft

Airflow per person: **20.00** CFM/person

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-3-Meeting Room #1	62.5	2896	Oct 1300	27.2	2090.0	1.39

System Design Load Summary for AHU-3-Meeting Room #1

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:40PM

	DESIGN COOLING			DESIGN HEATING		
	Aug 1400			Design Heating Day		
	OA DB / WB 91.7 F / 78.9 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	17470	-	641 sqft	-	-
Wall Transmission	266 sqft	592	-	266 sqft	716	-
Roof Transmission	2090 sqft	4769	-	2090 sqft	4514	-
Window Transmission	641 sqft	9816	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	3849	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1489	3101	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	56963	19026	-	27183	1
Thermostat and Pulldown Adjustment	-	148	0	-	215	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	700 CFM	12414	26239	700 CFM	18150	0
Supply Fan Load	2896 CFM	2147	-	2896 CFM	-2147	-
>> Total System Loads	-	71672	45265	-	43402	1
Central Cooling Coil	-	71672	45265	-	0	0
Central Heating Coil	-	0	-	-	43402	-
>> Total Coil Loads	-	71672	45265	-	43402	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-3-Meeting Room #1

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:40PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	15215	-	641 sqft	-	-
Wall Transmission	266 sqft	553	-	266 sqft	716	-
Roof Transmission	2090 sqft	5193	-	2090 sqft	4514	-
Window Transmission	641 sqft	10064	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	3975	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1519	2998	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	55498	18923	-	27183	1

Air System Sizing Summary for AHU-3-Meeting Room #2

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:41PM

Air System Information

Air System Name: **AHU-3-Meeting Room #2**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **2090.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	9.8 Tons	Load occurs at:	Jul 1500
Total coil load:	117.9 MBH	OA DB / WB:	92.0/79.0 F
Sensible coil load:	71.2 MBH	Entering DB / WB:	79.8/68.5 F
Coil airflow:	2616 CFM	Leaving DB / WB:	54.6/53.7 F
Sensible heat ratio:	0.603	Coil ADP:	51.8 F
Area per unit load:	212.7 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	56.4 BTU/(hr-sqft)	Resulting RH:	54 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	43.3 MBH	Load occurs at:	Des Htg
Coil airflow:	2616 CFM	Ent DB / Lvg DB:	63.5/78.8 F
Load per unit area:	20.7 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	2616 CFM	Fan motor BHP:	0.76 BHP
Standard airflow:	2615 CFM	Fan motor kW:	0.57 kW
Actual max airflow per unit area:	1.25 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	700 CFM	Airflow per person:	20.00 CFM/person
Airflow per unit floor area:	0.33 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-3-Meeting Room #2	56.5	2616	Jul 1500	27.2	2090.0	1.25

System Design Load Summary for AHU-3-Meeting Room #2

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:41PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	16124	-	641 sqft	-	-
Wall Transmission	266 sqft	587	-	266 sqft	716	-
Roof Transmission	2090 sqft	5193	-	2090 sqft	4514	-
Window Transmission	641 sqft	10064	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	4010	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1519	3260	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	56476	19185	-	27183	1
Thermostat and Pulldown Adjustment	-	109	0	-	-56	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	700 CFM	12630	27583	700 CFM	18071	0
Supply Fan Load	2616 CFM	1939	-	2616 CFM	-1939	-
>> Total System Loads	-	71154	46769	-	43259	1
Central Cooling Coil	-	71154	46777	-	0	0
Central Heating Coil	-	0	-	-	43259	-
>> Total Coil Loads	-	71154	46777	-	43259	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-3-Meeting Room #2

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:41PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	16124	-	641 sqft	-	-
Wall Transmission	266 sqft	587	-	266 sqft	716	-
Roof Transmission	2090 sqft	5193	-	2090 sqft	4514	-
Window Transmission	641 sqft	10064	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	4010	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1519	3260	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	56476	19185	-	27183	1

Attachment F: Town Gate Park - Plans / Drawings

REVISIONS	BY
△	---
△	---

LICENSE NO.

SEAL

PROJECT
 AC TOWNGATE CLUB BLDG

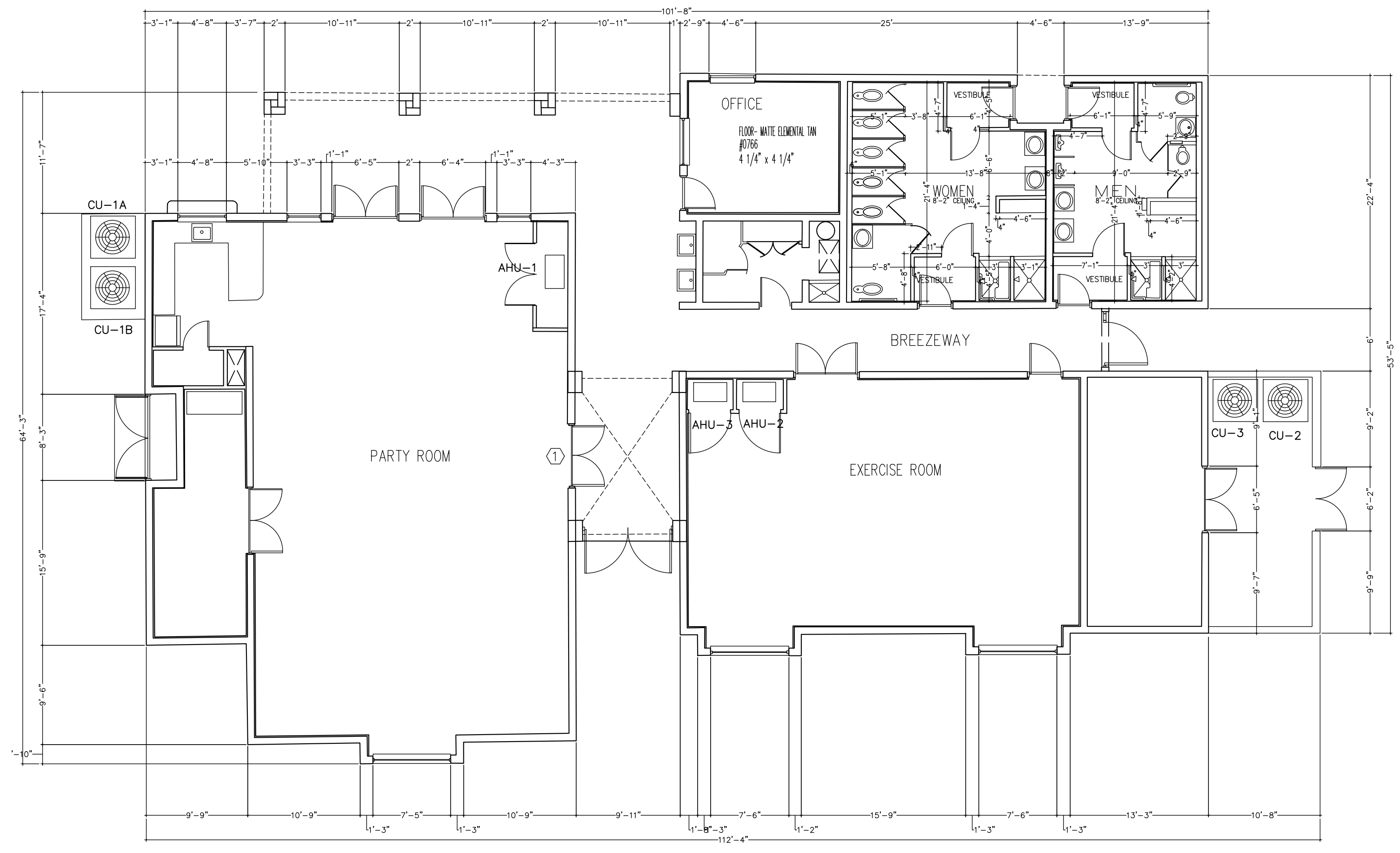
AS IND

DRAWN BY:

A. NUNEZ

DESCRIPTION

AC



FLOOR PLAN SCALE: 1/4"=1'-0"



34 N.W. 168th Street
 North Miami Beach, FL 33169
 Telephone: (305) 653-0212
 Fax: (305) 653-0232
 e-mail: fesmain@bellsouth.net

April 22, 2024

CITY OF PEMBROKE PINES – HVAC EQUIPMENT REPLACEMENT PROJECT

To: All Bidders

Facility Name: **Towngate Club Building**

Address: 901 NW 155th Avenue, Pembroke Pines, Florida 33028

Basic Scope of Work – Replacement of (3) – existing split systems

- (1) - Existing AHU-1 MFG/Model # - TRANE/TWE0120A (split coil), (1) – CU TRANE/2TTA060A + (1) – CU 2TTA072C300A (Not an AHRI listed combination)
- (1) - Existing AHU-2 MFG/Model # - THERMAL ZONE/TZHSL-3017JA, CU-2 THERMAL ZONE/TZAL030
- (1) - Existing AHU-3 MFG/Model # - TRANE/TWE090A, CU-3 TRANE/2TTA072A300

New Equipment Schedule:

Condensing Unit Tag	CU-1A	CU-1B	CU-2	CU-3
Manufacturer	Trane	Trane	Trane	Trane
Nominal Tons	5.0	5.0	2.5	6.0
EER / IEER or SEER2	11.5 / 14.8	11.5 / 14.8	14.3	11.5/13.10
Refrigerant	R410a	R410a	R410a	R410a
Condenser Model	4TTA046043D	4TTA06043D	4TTR4030N	TTA07243D
Total Capacity - MBH	57.0	57.0	30.0	77.0
Sensible Capacity - MBH	43.0	43.0	23.0	61.0
Compressor - Qty-Type	1-Scroll	1-Scroll	1-Scroll	1-Scroll
Compressor - RLA-LRA	15.9 – 110	15.9 – 110	12.2 – 80.1	19.6 A
Condenser Fan - HP-FLA	1/5 – 1.05	1/5 – 1.05	1/8 – 0.77	-2.3 A
Voltage	208/3/60	208/3/60	208-1-60	208-3-60
MCA	21.0	21.0	16	27
MOCP	35	35	25	45
Dimensions - W x D x H (in.)	42 x 36 x 39	42 x 36 x 39	32.6 x 29.7 x 32.75	42 x 36 x 39
Weight - lbs	211	211	156	324
Circuits	1	1	1	1
Liquid Line	3/8	3/8	3/8	½
Suction Line	7/8	7/8	¾	1-1/8
AHU Tag	AHU-1		AHU-2	AHU-3
AHU Model	TWE1204B (Split Coil)		TEM4A0B31	TWE09043A
Entering Air - DB/WB	80/67		80/67	80/67
CFM	4000		1000	2400
ESP	1.0"		0.40"	1.0"
Leaving Air - DB/WB	59.5/57.9		58.8/56.2	57.6/56.7
Blower Motor - HP/FLA	3 – 10.0		0.33 – 2.8	2-5.3
Electric Heater Kw	11.2 (Flanged)		3.6	9.9
Voltage	208/3/60		208-1-60	208-3-60
MCA	38		25	37
MOCP (EXISTING TO REMAIN)	60		30	40
Filters - Qty-Size	See MFG specs		See MFG specs	See MFG specs
Dimensions - W x D x H in.)	63.5 x 25.5 x 54.06		18.5 x 21.13 x 46.77	47.5 x 25.5 x 54.06
Weight - lbs	393		138	360

AHU-1,3 Notes:

Provide single piece horizontal AHU with factory installed belt driven motor, noncorrosive composite drain pan, single point power connection, factory installed thermal expansion valve, field installed electric heat, OEM programmable thermostat.

CU-3 Notes:

Provide factory installed crank case heater, phase monitor, copper tube aluminum fin condenser coil.

AHU-2 Notes:

Provide field installed filtered return, factory installed PSC motor, noncorrosive drain pan, aluminum evaporator coil with thermal expansion valve.

CU-2 Notes:

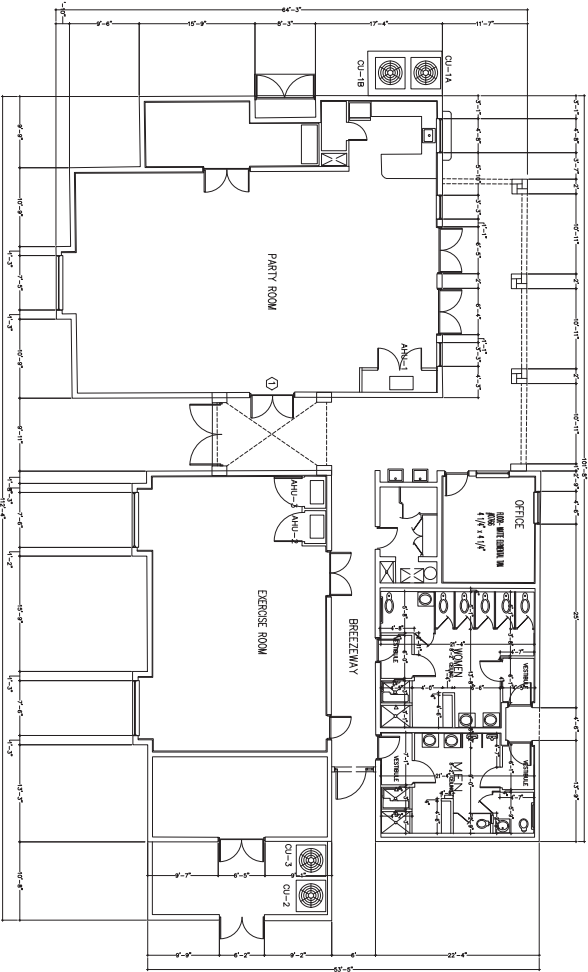
Provide single stage condensing unit with factory installed composite base, aluminum condenser coil, field installed OEM programmable thermostat.

Instructions to bidders:

- Visit project site and become familiar with existing equipment, accessories, and conditions prior to submitting bid documents.
- Follow City of Pembroke Pines Bidding Instructions.
- Check existing AC closet dimensions, prior to ordering new equipment, to ensure the new air handler will adequately fit.
- Legally remove and dispose of existing equipment slated for replacement.
- All existing refrigerant piping is to be re-used. Refrigerant piping serving R22 systems is to be fully flushed free oil using approved chemicals and procedures.
- New air handler to be connected to existing condensate drain line. Provide new condensate trap as required by equipment manufacturer.
- Install new fresh air intake dampers in existing fresh air intake duct. Diameter/size to be measured in field. The damper to have 24V actuator wired to AHU control block. Damper to be open when condensing unit is on, closed when condensing unit is off.
- Existing duct detectors to be re-used and wired to shut off the new air handlers upon detection of smoke, etc. per existing fire alarm sequence of operations.
- New AHU-1,3 to be set on new aluminum stands.
- New AHU-2 to be set on new insulated sheet metal plenum with extension to accept connection to return air duct.
- Return air duct in closet serving AHU-2 to be extend down to new plenum below AHU-2.
- Provide AHU-1,2,3 with new, internal condensate float switch.
- Condensing units to be tied down to existing concrete pads in accordance with the manufacturer's engineered tie down system.
- Exposed refrigerant pipe insulation that is damaged shall be replaced with ¾" elastomeric insulation, painted per manufacturer's recommendations.
- Corroded refrigerant pipe supports shall be replaced like for like.
- Provide new split systems with new OEM programmable thermostat.
- Existing disconnect switch serving CU-1A,1B,2,3 to be replaced with new disconnect switch with manufacturer recommended amperage.
- Technical questions may be emailed to alberts@fesinc.biz.

Sincerely,
 FES, Inc.

Albert Shub, P.E. LEED AP
 President, Engineer of Record



FLOOR PLAN SCALE: 1/4" = 1'-0"

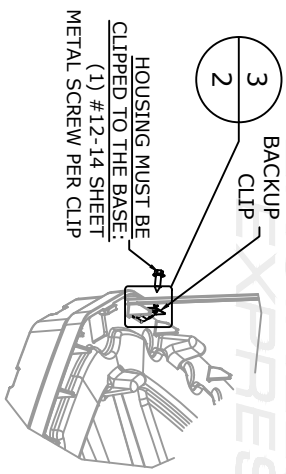
AC	DESCRIPTION ----- ----- -----	AS IND ----- ----- -----	DRAWN BY: A. NUNEZ	PROJECT AC TOWNGATE CLUB BLDG	SEAL ----- ----- -----	LICENSE NO. ----- ----- -----	REVISIONS BY ----- ----- -----	PEABODICE PINES 	CITY OF 
----	--	-----------------------------------	-----------------------	----------------------------------	---------------------------------	--	---	--	--

TRANE TECHNOLOGIES

TRANE CONDENSER (GROUND MOUNTED)
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

NOTE: THIS EVALUATION CERTIFIES BOTH UNIT INTEGRITY AND ANCHORAGE TO HOST STRUCTURE FOR WIND RESISTANCE (FOR AT-GRADE USE ONLY). SEE LIMITATIONS HEREIN.

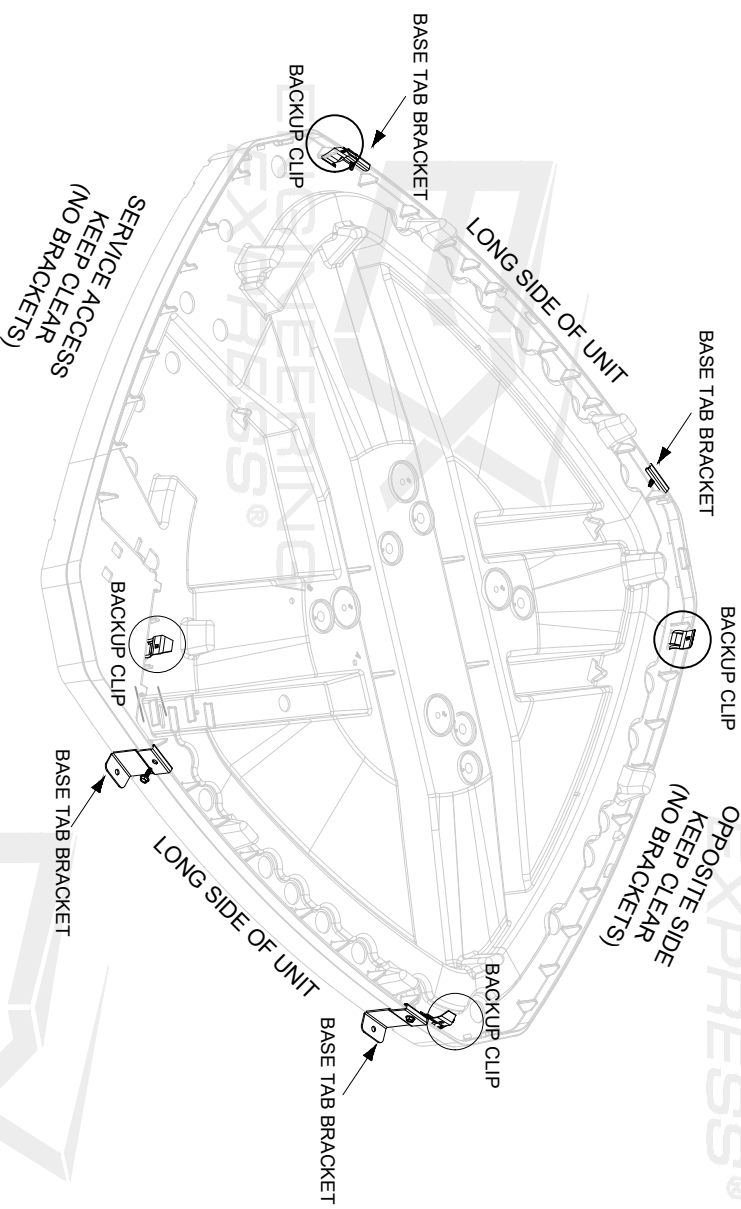


HOUSING MUST BE CLIPPED TO THE BASE:
(1) #12-14 SHEET METAL SCREW PER CLIP

NOTE: SEE NEXT PAGE FOR ADDITIONAL PRODUCT INSTALLATION DETAILS AND ANCHOR SCHEDULE TABLE.

1 "BACKUP CLIP" ATTACHMENT

SCALE: N.T.S. ISOM.



2 (1) BASE CLIP PER CORNER

SCALE: N.T.S. ISOM.

LAYOUT A

GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) & ASCE 7-22. THIS SYSTEM MAY BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). THIS DESIGN IS NOT INTENDED TO CERTIFY IMPACT RESISTANCE OF THE MECHANICAL UNIT CABINERY.
- DESIGN & CERTIFICATION OF THE UNIT CABINERY IS APPROVED THROUGH TEST REPORT #0708.01-15 BY AMERICAN TEST LAB OF SOUTH FLORIDA. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY 1.5 SAFETY FACTOR. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS AND THE MINIMUM WEIGHT OF MECHANICAL UNIT SHALL CONFORM TO LIMITATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 1.3.7.2 BY THE ALUMINUM ASSOCIATION INC., AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ON-SITE DESIGN PROFESSIONAL, AND IS NOT INCLUDED IN THIS CERTIFICATION.
- BASEPANEL MATERIAL CHOPPED FIBER LAMINATE W/ Fy=15 KSI. PLASTIC COMPONENTS USED WITHIN THE HVHZ MUST MEET ALL APPLICABLE FIRE/SMOKE/UV PERFORMANCE REQUIREMENTS AS SET FORTH IN THE ABOVE-NOTED BUILDING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
- ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, AT ALL INDUSTRIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPEAL FEES RESULTING FROM MATERIAL FABRICATION SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, AND OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ADDT." FOR "ADDITIONAL", "AHD" FOR "AUTHORITY HAVING JURISDICTION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "BO" FOR "BUILD-OUT", "CS" FOR "CARBON STEEL", "EA." FOR "EACH", "E.D." FOR "EDGE DIST.", "FOR" FOR "EDGE DISTANCE", "ELEV" FOR "ELEVATION", "EMBED" FOR "EMBEDMENT", "EQ"/"EQUIV." FOR "EQUIVALENT", "EXT" FOR "EXTENSOR", "FBC" FOR "FLORIDA BUILDING CODE", "ft" OR " " FOR "FEET", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GALV" FOR "GALVANIZED", "GFB" FOR "GROUT-FILLED BLOCK", "GR" FOR "GRADE", "HOLLOW" FOR "HOLLOW BLOCK", "HORIZ" FOR "HORIZONTAL", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "IN" OR " " FOR "INCHES", "INT" FOR "INTERIOR", "KSI" FOR "1,000 lb / in²", "L" FOR "LENGTH", "lb" FOR "POUND", "MAX" FOR "MAXIMUM", "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "P.E." FOR "PROFESSIONAL ENGINEER", "PERP" FOR "PERPENDICULAR", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "PSI" FOR "POUNDS PER SQUARE INCH (lb/in²)", "QTY" FOR "QUANTITY", "REF." FOR "REFERENCE", "SCHD." FOR "SCHEDULE", "SDS" FOR "SELF-DRILLING SCREWS", "SMS" FOR "SHEET METAL SCREWS", "SPCS" FOR "SPECIFICATIONS", "SS" FOR "STAINLESS STEEL", "SUB" FOR "SUBMITTAL", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP" FOR "TYPICAL", "ULT" FOR "ULTIMATE LOADS", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "UTS" OR "Fu" FOR "ULTIMATE TENSILE STRENGTH/STRESS", "VERT" FOR "VERTICAL", "WLL" FOR "WORKING LOAD LIMIT", "W/" FOR "WITH", "W/O" FOR "WITHOUT", "Ys" FOR "YIELD STRENGTH", "#" FOR "NUMBER", "&" FOR "AND", AND "Ø" FOR "DIAMETER".

VISIT [EGALC.IO/GLOSSARY](http://EGALC.IO/TRANE) OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

VISIT EGALC.IO/TRANE
FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE
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PAGE INDEX:

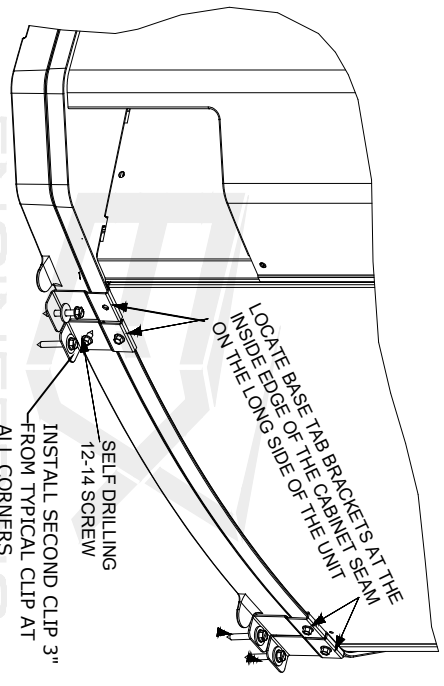
DESCRIPTION	PAGE #
COVER PAGE & GENERAL NOTES	01
PRODUCT INSTALLATION & ANCHOR SCHEDULE	02

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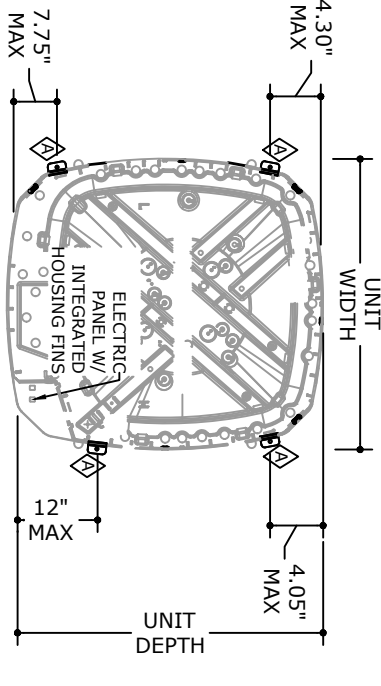
TRANE TECHNOLOGIES
6200 TROUP HWY
TYLER, TX 75707
PHONE: (903) 730-4602
TRANE CONDENSER (GROUND MOUNTED)
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28643)	CCB	RWN	07/08/20
2023 FBC UPDATE	EPR	RWN	10/23/23

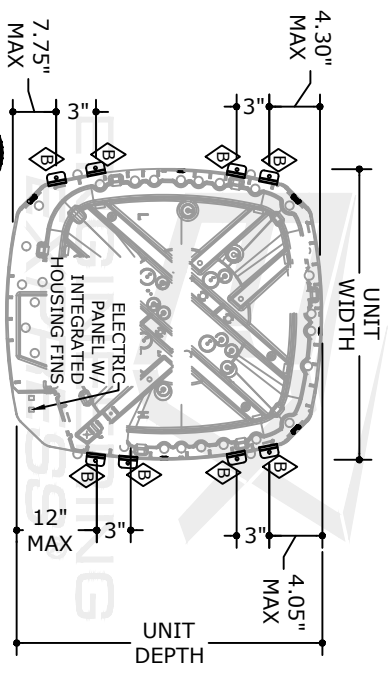
SCALE: N.T.S. UNLESS NOTED
23-68290
OF 2



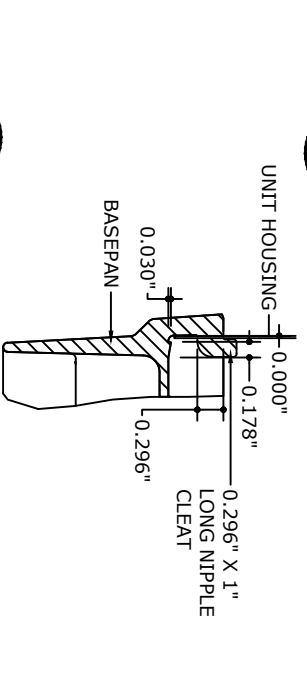
1 (2) BASE CLIPS PER CORNER
SCALE: N.T.S. ISOM.



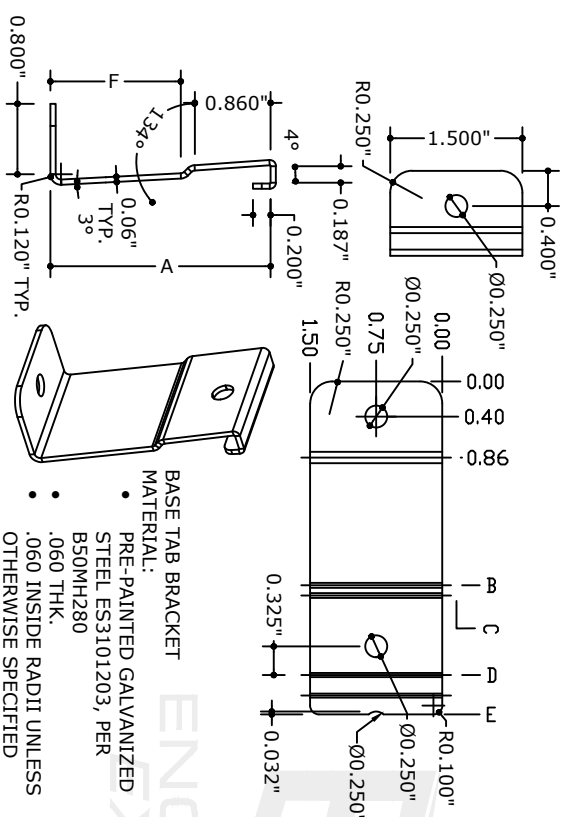
4 CONNECTION LAYOUT A
SCALE: N.T.S. PLAN VIEW



5 CONNECTION LAYOUT B
SCALE: N.T.S. PLAN VIEW



6 A/C HOUSING CLEAT
SCALE: N.T.S. SECTION

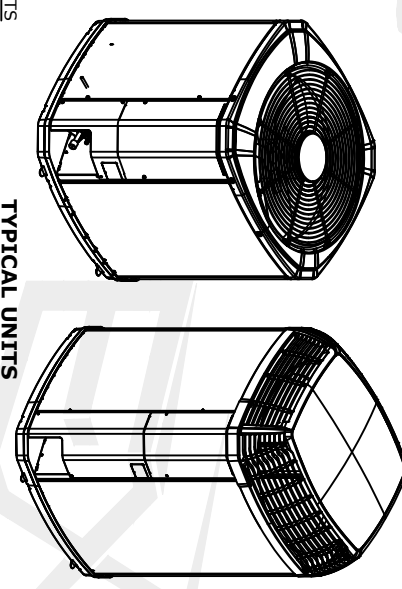


PART NO.	A	B	C	D	E	F	USE WITH LAYOUT
DIS3086P01	250	232	243	333	378	148	B
DIS3086P02	210	191	203	293	338	108	A

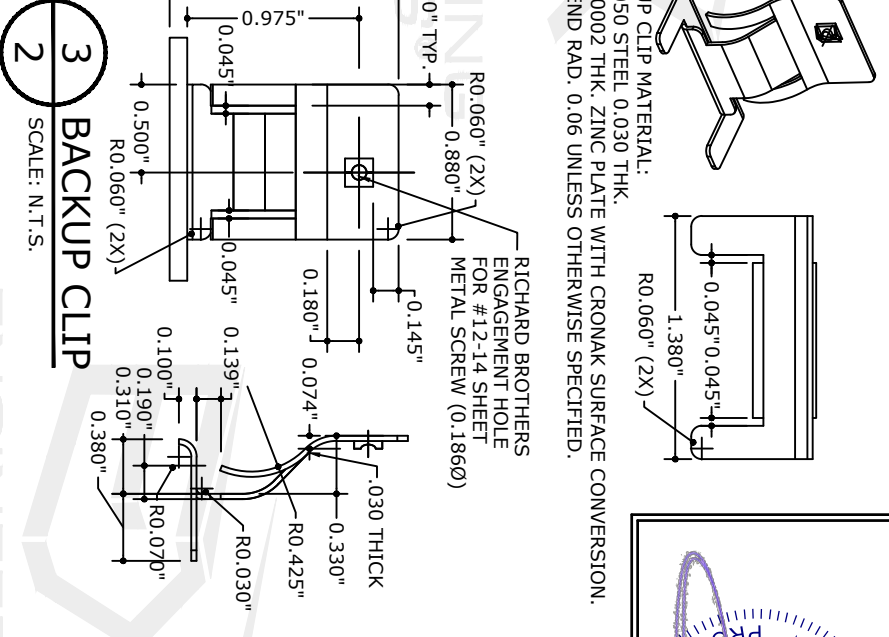
2 BASE TAB BRACKETS
SCALE: N.T.S.

BASE TAB BRACKET MATERIAL:

- PRE-PAINTED GALVANIZED STEEL ES3101203, PER B50MH280
- .060 THK.
- .060 INSIDE RADIUS UNLESS OTHERWISE SPECIFIED



UNIT MODELS



3 BACKUP CLIP
SCALE: N.T.S.

BACKUP CLIP MATERIAL:

- 1050 STEEL 0.030 THK.
- 0.0002 THK. ZINC PLATE WITH CRONAK SURFACE CONVERSION.
- BEND RAD. 0.06 UNLESS OTHERWISE SPECIFIED.

RICHARD BROTHERS ENGAGEMENT HOLE FOR #12-14 SHEET METAL SCREW (0.1860)

DESIGNATION	UNIT WIDTH	UNIT DEPTH	UNIT HEIGHT	ALLOWABLE WIND PRESSURE RATING	APPLICABLE ANCHOR TYPES: SEE ANCHOR NOTES FOR A DESCRIPTION OF ANCHOR TYPE #1 OR #2	LAYOUT OF BASE TAB BRACKETS:
TYPE XB / XR / XV	25.69 IN	28.42 IN	32.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	25.69 IN	28.42 IN	25.60 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	29.69 IN	32.65 IN	40.70 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	29.69 IN	32.65 IN	28.77 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV*	34.29 IN	37.29 IN	45.17 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XB / XR / XV	34.29 IN	37.29 IN	29.18 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XL / XV**	34.29 IN	37.29 IN	53.86 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT B
TYPE XL / XV	29.69 IN	32.65 IN	48.00 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT B
TYPE XL / XV	34.29 IN	37.29 IN	41.88 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A
TYPE XL / XV	29.69 IN	32.65 IN	39.94 IN	60 PSF	TYPE 1 & TYPE 2	LAYOUT A

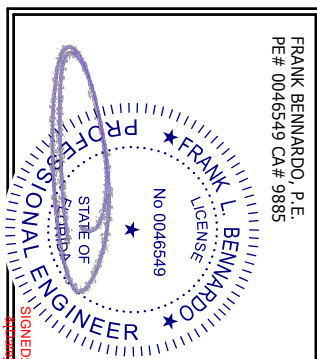
ANCHOR NOTES:

- SEE ISOMETRIC BASE LAYOUTS (DETAILS 2/1 AND 1/2) FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. UTILIZE 0.625" O.D. x 0.280" I.D. x 0.059" THICK WASHER @ BASE CLIP.
- ANCHOR TYPE #1: CONSIDERS HILLTI KWIK-CON II+ CARBON STEEL TAPCONS OR EQUIVALENT W/ 1-3/4" MIN EMBED, 2-1/2" MIN EDGE DISTANCE AND 3" MIN SPACING (UNLESS NOTED OTHERWISE), FASTENED TO MINIMUM 3,000 PSI EXISTING CONCRETE AS VERIFIED BY OTHERS.
- ANCHOR TYPE #2: CONSIDERS SHEET METAL SCREWS (SMS) AS SPECIFIED HEREIN SHALL BE MINIMUM - SAE GRADE 5 ASTM A449 - SPACED THREAD W/ MIN (5) PITCHES PAST THREAD PLANE, INTO MINIMUM 1/8" THICK A36 STEEL. USE #14-14 SMS SCREWS WITH 5/8" EDGE DISTANCE FOR STEEL HOST STRUCTURE.
- MINIMUM EMBEDMENT SHALL BE AS NOTED. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, INSULATION, AND OTHER FINISHES.

TABLE DIRECTIONS:

- SELECT DESIRED UNIT SIZE.
- SELECT APPLICABLE ANCHOR TYPE UNDER CONSIDERATION AS VERIFIED BY OTHERS.
- MATCH UNIT SIZE WITH THE INTENDED HOST STRUCTURE AND OBSERVE MAXIMUM ALLOWABLE WIND PRESSURE FOR THE SYSTEM, SITE-SPECIFIC REQUIRED WIND PRESSURES PER SEPARATE CERTIFICATION OR BY OTHERS.
- UTILIZE LAYOUT AS LISTED IN TABLE.

*UNIT WEIGHT = 245 LB
 **UNIT WEIGHT = 302 LB
 (DEFAULT UNIT WEIGHT = 120 LB)
 †-DOWN CONFIGURATIONS REQUIRE (1) OR (2) BRACKETS PER CORNER. SEE 4/2 OR 5/2 FOR ILLUSTRATION.



REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28643)	CCB	RWN	07/08/20
2023 FBC UPDATE	EPR	RWN	10/23/23

ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

October 19, 2023

Application Number: FL 19588.3
EX Project Number: 23-68290

Product Manufacturer: Trane Technologies
Manufacturer Address: 6200 Troup Hwy
Tyler, TX 75707, USA

Product Name & Description: Trane Condenser (Ground Mounted)

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-68290 titled "TRANE CONDENSER (GROUND MOUNTED)", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 2.

- **TEST REPORTS**

The product has been tested per the following:

Test Lab	Test Report #	Test Standard	Test Description	Signed & Sealed By:
American Test Lab of South Florida	0708.01-15	ASTM E330, TAS 202	Uniform Static Wind Loading	Stephen Warter, P.E.

Trane Technologies – Trane Condenser (Ground Mounted)

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Minimum Allowable Unit Width
2. Maximum Allowable Unit Height
3. Minimum Unit Weight
4. Maximum Allowable Unit Surface Area
5. Clip Configuration and Anchor Spacing
6. Anchor Capacity for Various Substrates

Impact Resistance:

Impact Resistance has not been demonstrated.

Wind Load Resistance:

This product has been designed to resist wind loads as indicated on its respective Performance Evaluation document (i.e. engineering document).

Installation:

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions that are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

Frank Bennardo, P.E.
ENGINEERING EXPRESS®
#PE0046549 | Cert. Auth. 9885



Certificate of Product Ratings

AHRI Certified Reference Number : 207820798 Date : 04-17-2024 Model Status : Production Stopped

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Series : XR14

Outdoor Unit Brand Name : TRANE

Outdoor Unit Model Number (Condenser or Single Package) : 4TTA4060A3

Indoor Unit Model Number (Evaporator and/or Air Handler) : TEM6B0C60H51+TDR

Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 57000

SEER : 14.25

EER (A2) - Single or High Stage (95F) : 11.70



†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

133578390130325028

Certificate of Product Ratings

AHRI Certified Reference Number : 209067865 Date : 04-17-2024 Model Status : Active

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Outdoor Unit Brand Name : TRANE

Outdoor Unit Model Number (Condenser or Single Package) : 4TTR4030N1

Indoor Unit Model Number (Evaporator and/or Air Handler) : TEM4A0B31M31+TDR

Region : All (AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, ID, IL, IA, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WV, WI, WY, U.S. Territories)

Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 32000

SEER2 : 14.30

EER2 (A_{Full}) – Single or High Stage (95F) : 11.70



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Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRI.net.org for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

133578381757294253

Certificate of Product Ratings

AHRI Certified Reference Number : 209921869 Date : 04-17-2024 Model Status : Active

Brand Name : TRANE

Model Number : TTA0724(3,4,W)AA***BS*

Indoor Unit Model Number : TWE0904(3,4,W)AA***BD*

Series Name : ODYSSEY

AHRI Type : RCU-A-CB

Refrigerant Type : R-410A

Hertz : 60

Sold In? : USA, Canada

Rated as follows in accordance with the following test procedures and subject to verification of rating accuracy by AHRI-sponsored, independent, third-party testing:

- AHRI Standard 340/360-2022, Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment
- AHRI Standard 365-2009, Commercial and Industrial Unitary Air-Conditioning Condensing Units

Cooling Capacity 95F/Cooling Capacity 95F at 230v : 76000/76000

EER 95F/EER 95F at 230v : 11.50/11.50

IEER/IEER at 230v : 14.8/14.8

The following data is for reference only and is not certified by AHRI

Full Load Indoor Coil Air Quantity (scfm) : 2400

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Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

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CERTIFICATE NO.:

133578366527563597



ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

October 19, 2023

Application Number: FL 19588.3
EX Project Number: 23-68290
Product Manufacturer: Trane Technologies
Manufacturer Address: 6200 Troup Hwy
Tyler, TX 75707, USA

Product Name & Description: Trane Condenser (Ground Mounted)

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

- PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-68290 titled "TRANE CONDENSER (GROUND MOUNTED)", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 2.

- TEST REPORTS**

The product has been tested per the following:

Test Lab	Test Report #	Test Standard	Test Description	Signed & Sealed By:
American Test Lab of South Florida	0708.01-15	ASTM E330, TAS 202	Uniform Static Wind Loading	Stephen Warter, P.E.

Trane Technologies – Trane Condenser (Ground Mounted)

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Minimum Allowable Unit Width
2. Maximum Allowable Unit Height
3. Minimum Unit Weight
4. Maximum Allowable Unit Surface Area
5. Clip Configuration and Anchor Spacing
6. Anchor Capacity for Various Substrates

Impact Resistance:

Impact Resistance has not been demonstrated.

Wind Load Resistance:

This product has been designed to resist wind loads as indicated on its respective Performance Evaluation document (i.e. engineering document).

Installation:

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions that are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

Frank Bennardo, P.E.
ENGINEERING EXPRESS®
#PE0046549 | Cert. Auth. 9885

Air System Sizing Summary for AHU-1 Party Room

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 01:34PM

Air System Information

Air System Name: **AHU-1 Party Room**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **2037.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	9.4 Tons	Load occurs at:	Jul 1500
Total coil load:	112.2 MBH	OA DB / WB:	92.0/79.0 F
Sensible coil load:	61.2 MBH	Entering DB / WB:	81.6/70.9 F
Coil airflow:	2116 CFM	Leaving DB / WB:	54.8/54.1 F
Sensible heat ratio:	0.545	Coil ADP:	51.8 F
Area per unit load:	217.8 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	55.1 BTU/(hr-sqft)	Resulting RH:	59 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	39.4 MBH	Load occurs at:	Des Htg
Coil airflow:	2116 CFM	Ent DB / Lvg DB:	60.8/78.1 F
Load per unit area:	19.4 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	2116 CFM	Fan motor BHP:	0.62 BHP
Standard airflow:	2115 CFM	Fan motor kW:	0.46 kW
Actual max airflow per unit area:	1.04 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	800 CFM	Airflow per person:	20.00 CFM/person
Airflow per unit floor area:	0.39 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-1 Party Room	45.7	2116	Oct 1400	20.6	2037.0	1.04

System Design Load Summary for AHU-1 Party Room

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 01:34PM

	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	113 sqft	1834	-	113 sqft	-	-
Wall Transmission	1371 sqft	3303	-	1371 sqft	3684	-
Roof Transmission	2037 sqft	5061	-	2037 sqft	4400	-
Window Transmission	113 sqft	1781	-	113 sqft	2858	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	208 sqft	9404	-	208 sqft	5236	-
Floor Transmission	2037 sqft	0	-	2037 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2180 W	7437	-	0 W	0	-
Electric Equipment	400 W	1365	-	0 W	0	-
People	40	11800	18200	0	0	0
Infiltration	-	2484	4751	-	4384	2
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	44469	22951	-	20562	2
Thermostat and Pulldown Adjustment	-	635	0	-	-174	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	800 CFM	14498	28107	800 CFM	20613	0
Supply Fan Load	2116 CFM	1569	-	2116 CFM	-1569	-
>> Total System Loads	-	61170	51057	-	39431	2
Central Cooling Coil	-	61170	51063	-	0	0
Central Heating Coil	-	0	-	-	39431	-
>> Total Coil Loads	-	61170	51063	-	39431	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-1 Party Room

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 01:34PM

	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	113 sqft	1834	-	113 sqft	-	-
Wall Transmission	1371 sqft	3303	-	1371 sqft	3684	-
Roof Transmission	2037 sqft	5061	-	2037 sqft	4400	-
Window Transmission	113 sqft	1781	-	113 sqft	2858	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	208 sqft	9404	-	208 sqft	5236	-
Floor Transmission	2037 sqft	0	-	2037 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2180 W	7437	-	0 W	0	-
Electric Equipment	400 W	1365	-	0 W	0	-
People	40	11800	18200	0	0	0
Infiltration	-	2484	4751	-	4384	2
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	44469	22951	-	20562	2

Air System Sizing Summary for AHU-2 Office and Bathrooms

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:01PM

Air System Information

Air System Name: **AHU-2 Office and Bathrooms**
 Air System Type: **Single Zone CAV**

Number of zones: **1**
 Floor Area: **1173.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**

Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load: **2.4** Tons
 Total coil load: **28.5** MBH
 Sensible coil load: **21.9** MBH
 Coil airflow: **971** CFM
 Sensible heat ratio: **0.769**
 Area per unit load: **493.9** sqft/Ton
 Load per unit area: **24.3** BTU/(hr-sqft)

Load occurs at: **Oct 1500**
 OA DB / WB: **88.0/77.0** F
 Entering DB / WB: **75.9/64.0** F
 Leaving DB / WB: **55.0/53.9** F
 Coil ADP: **52.7** F
 Bypass Factor: **0.100**
 Resulting RH: **52** %
 Design supply temp: **55.0** F

Central Heating Coil Sizing Data

Max coil load: **10.0** MBH
 Coil airflow: **971** CFM
 Load per unit area: **8.5** BTU/(hr-sqft)

Load occurs at: **Des Htg**
 Ent DB / Lvg DB: **69.2/78.7** F

Supply Fan Sizing Data

Actual max airflow: **971** CFM
 Standard airflow: **971** CFM
 Actual max airflow per unit area: **0.83** CFM/sqft

Fan motor BHP: **0.28** BHP
 Fan motor kW: **0.21** kW
 Fan static: **1.00** in wg

Outdoor Ventilation Air Data

Design airflow: **35** CFM
 Airflow per unit floor area: **0.03** CFM/sqft

Airflow per person: **5.83** CFM/person

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-2 Office and Baths	21.0	971	Oct 1400	9.4	1173.0	0.83

System Design Load Summary for AHU-2 Office and Bathrooms

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:01PM

	DESIGN COOLING			DESIGN HEATING		
	Oct 1500			Design Heating Day		
	OA DB / WB 88 F / 77 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	29 sqft	1485	-	29 sqft	-	-
Wall Transmission	772 sqft	1798	-	772 sqft	2076	-
Roof Transmission	1173 sqft	1891	-	1173 sqft	2534	-
Window Transmission	29 sqft	331	-	29 sqft	726	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	72 sqft	4490	-	72 sqft	1810	-
Floor Transmission	1173 sqft	0	-	1173 sqft	0	-
Partitions/Ceilings	460 sqft	0	-	460 sqft	0	-
Overhead Lighting	1091 W	3722	-	0 W	0	-
Electric Equipment	400 W	1365	-	0 W	0	-
People	6	1770	2730	0	0	0
Infiltration	-	980	2566	-	2262	1
Miscellaneous	-	3000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	20832	5296	-	9407	1
Thermostat and Pulldown Adjustment	-	-113	0	-	361	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	35 CFM	475	1287	35 CFM	909	0
Supply Fan Load	971 CFM	720	-	971 CFM	-720	-
>> Total System Loads	-	21915	6582	-	9957	1
Central Cooling Coil	-	21915	6587	-	0	0
Central Heating Coil	-	0	-	-	9957	-
>> Total Coil Loads	-	21915	6587	-	9957	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-2 Office and Bathrooms

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:01PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	29 sqft	435	-	29 sqft	-	-
Wall Transmission	772 sqft	1754	-	772 sqft	2076	-
Roof Transmission	1173 sqft	2915	-	1173 sqft	2534	-
Window Transmission	29 sqft	452	-	29 sqft	726	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	72 sqft	3158	-	72 sqft	1810	-
Floor Transmission	1173 sqft	0	-	1173 sqft	0	-
Partitions/Ceilings	460 sqft	0	-	460 sqft	0	-
Overhead Lighting	1091 W	3722	-	0 W	0	-
Electric Equipment	400 W	1365	-	0 W	0	-
People	6	1770	2730	0	0	0
Infiltration	-	1282	2745	-	2262	1
Miscellaneous	-	3000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	19853	5475	-	9407	1

Air System Sizing Summary for AHU-3 Exercises Room

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:09PM

Air System Information

Air System Name: **AHU-3 Exercises Room**
 Air System Type: **Single Zone CAV**

Number of zones: **1**
 Floor Area: **1026.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**

Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load: **7.4** Tons
 Total coil load: **88.7** MBH
 Sensible coil load: **43.8** MBH
 Coil airflow: **1445** CFM
 Sensible heat ratio: **0.494**
 Area per unit load: **138.7** sqft/Ton
 Load per unit area: **86.5** BTU/(hr-sqft)

Load occurs at: **Jun 1500**
 OA DB / WB: **91.0/79.0** F
 Entering DB / WB: **82.4/73.0** F
 Leaving DB / WB: **54.3/53.8** F
 Coil ADP: **51.2** F
 Bypass Factor: **0.100**
 Resulting RH: **.66** %
 Design supply temp: **55.0** F

Central Heating Coil Sizing Data

Max coil load: **21.3** MBH
 Coil airflow: **1445** CFM
 Load per unit area: **20.8** BTU/(hr-sqft)

Load occurs at: **Des Htg**
 Ent DB / Lvg DB: **58.8/72.5** F

Supply Fan Sizing Data

Actual max airflow: **1445** CFM
 Standard airflow: **1444** CFM
 Actual max airflow per unit area: **1.41** CFM/sqft

Fan motor BHP: **0.42** BHP
 Fan motor kW: **0.31** kW
 Fan static: **1.00** in wg

Outdoor Ventilation Air Data

Design airflow: **660** CFM
 Airflow per unit floor area: **0.64** CFM/sqft

Airflow per person: **30.00** CFM/person

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-3 Exercises Room	31.2	1445	Jun 1600	6.5	1026.0	1.41

System Design Load Summary for AHU-3 Exercises Room

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:09PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jun 1500			Design Heating Day		
	OA DB / WB 91 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	90 sqft	1835	-	90 sqft	-	-
Wall Transmission	342 sqft	754	-	342 sqft	919	-
Roof Transmission	1026 sqft	2506	-	1026 sqft	2216	-
Window Transmission	90 sqft	1319	-	90 sqft	2268	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	0 sqft	0	-	0 sqft	0	-
Floor Transmission	1026 sqft	0	-	1026 sqft	0	-
Partitions/Ceilings	900 sqft	0	-	900 sqft	0	-
Overhead Lighting	698 W	2380	-	0 W	0	-
Electric Equipment	600 W	2047	-	0 W	0	-
People	22	11550	20350	0	0	0
Infiltration	-	597	1023	-	1119	0
Miscellaneous	-	8000	4000	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	30988	25373	-	6523	0
Thermostat and Pulldown Adjustment	-	472	0	-	-916	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	660 CFM	11276	19559	660 CFM	16807	0
Supply Fan Load	1445 CFM	1071	-	1445 CFM	-1071	-
>> Total System Loads	-	43806	44932	-	21342	0
Central Cooling Coil	-	43806	44934	-	0	0
Central Heating Coil	-	0	-	-	21342	-
>> Total Coil Loads	-	43806	44934	-	21342	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-3 Exercises Room

Project Name: AC Towngate Club Bldg
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:09PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	90 sqft	1601	-	90 sqft	-	-
Wall Transmission	342 sqft	756	-	342 sqft	919	-
Roof Transmission	1026 sqft	2549	-	1026 sqft	2216	-
Window Transmission	90 sqft	1414	-	90 sqft	2268	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	0 sqft	0	-	0 sqft	0	-
Floor Transmission	1026 sqft	0	-	1026 sqft	0	-
Partitions/Ceilings	900 sqft	0	-	900 sqft	0	-
Overhead Lighting	698 W	2380	-	0 W	0	-
Electric Equipment	600 W	2047	-	0 W	0	-
People	22	11550	20350	0	0	0
Infiltration	-	634	924	-	1119	0
Miscellaneous	-	8000	4000	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	30932	25274	-	6523	0



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 e-mail: fesmain@bellsouth.net

April 22, 2024

CITY OF PEMBROKE PINES – HVAC EQUIPMENT REPLACEMENT PROJECT

To: All Bidders

Facility Name: **Towngate Club Building**

Address: 901 NW 155th Avenue, Pembroke Pines, Florida 33028

Basic Scope of Work – Replacement of (3) – existing split systems

- (1) - Existing AHU-1 MFG/Model # - TRANE/TWE0120A (split coil), (1) – CU TRANE/2TTA060A + (1) – CU 2TTA072C300A (Not an AHRI listed combination)
- (1) - Existing AHU-2 MFG/Model # - THERMAL ZONE/TZHSL-3017JA, CU-2 THERMAL ZONE/TZAL030
- (1) - Existing AHU-3 MFG/Model # - TRANE/TWE090A, CU-3 TRANE/2TTA072A300

New Equipment Schedule:

Condensing Unit Tag	CU-1A	CU-1B	CU-2	CU-3
Manufacturer	Trane	Trane	Trane	Trane
Nominal Tons	5.0	5.0	2.5	6.0
EER / IEER or SEER2	11.5 / 14.8	11.5 / 14.8	14.3	11.5/13.10
Refrigerant	R410a	R410a	R410a	R410a
Condenser Model	4TTA046043D	4TTA046043D	4TTR4030N	TTA07243D
Total Capacity - MBH	57.0	57.0	30.0	77.0
Sensible Capacity - MBH	43.0	43.0	23.0	61.0
Compressor - Qty-Type	1-Scroll	1-Scroll	1-Scroll	1-Scroll
Compressor - RLA-LRA	15.9 – 110	15.9 – 110	12.2 – 80.1	19.6 A
Condenser Fan - HP-FLA	1/5 – 1.05	1/5 – 1.05	1/8 – 0.77	-2.3 A
Voltage	208/3/60	208/3/60	208-1-60	208-3-60
MCA	21.0	21.0	16	27
MOCP	35	35	25	45
Dimensions - W x D x H (in.)	42 x 36 x 39	42 x 36 x 39	32.6 x 29.7 x 32.75	42 x 36 x 39
Weight - lbs	211	211	156	324
Circuits	1	1	1	1
Liquid Line	3/8	3/8	3/8	½
Suction Line	7/8	7/8	¾	1-1/8
AHU Tag	AHU-1		AHU-2	AHU-3
AHU Model	TWE1204B (Split Coil)		TEM4A0B31	TWE09043A
Entering Air - DB/WB	80/67		80/67	80/67
CFM	4000		1000	2400
ESP	1.0"		0.40"	1.0"
Leaving Air - DB/WB	59.5/57.9		58.8/56.2	57.6/56.7
Blower Motor - HP/FLA	3 – 10.0		0.33 – 2.8	2-5.3
Electric Heater Kw	11.2 (Flanged)		3.6	9.9
Voltage	208/3/60		208-1-60	208-3-60
MCA	38		25	37
MOCP (EXISTING TO REMAIN)	60		30	40
Filters - Qty-Size	See MFG specs		See MFG specs	See MFG specs
Dimensions - W x D x H in.)	63.5 x 25.5 x 54.06		18.5 x 21.13 x 46.77	47.5 x 25.5 x 54.06
Weight - lbs	393		138	360

AHU-1,3 Notes:

Provide single piece horizontal AHU with factory installed belt driven motor, noncorrosive composite drain pan, single point power connection, factory installed thermal expansion valve, field installed electric heat, OEM programmable thermostat.

CU-3 Notes:

Provide factory installed crank case heater, phase monitor, copper tube aluminum fin condenser coil.

AHU-2 Notes:

Provide field installed filtered return, factory installed PSC motor, noncorrosive drain pan, aluminum evaporator coil with thermal expansion valve.

CU-2 Notes:

Provide single stage condensing unit with factory installed composite base, aluminum condenser coil, field installed OEM programmable thermostat.

Instructions to bidders:

- Visit project site and become familiar with existing equipment, accessories, and conditions prior to submitting bid documents.
- Follow City of Pembroke Pines Bidding Instructions.
- Check existing AC closet dimensions, prior to ordering new equipment, to ensure the new air handler will adequately fit.
- Legally remove and dispose of existing equipment slated for replacement.
- All existing refrigerant piping is to be re-used. Refrigerant piping serving R22 systems is to be fully flushed free oil using approved chemicals and procedures.
- New air handler to be connected to existing condensate drain line. Provide new condensate trap as required by equipment manufacturer.
- Install new fresh air intake dampers in existing fresh air intake duct. Diameter/size to be measured in field. The damper to have 24V actuator wired to AHU control block. Damper to be open when condensing unit is on, closed when condensing unit is off.
- Existing duct detectors to be re-used and wired to shut off the new air handlers upon detection of smoke, etc. per existing fire alarm sequence of operations.
- New AHU-1,3 to be set on new aluminum stands.
- New AHU-2 to be set on new insulated sheet metal plenum with extension to accept connection to return air duct.
- Return air duct in closet serving AHU-2 to be extend down to new plenum below AHU-2.
- Provide AHU-1,2,3 with new, internal condensate float switch.
- Condensing units to be tied down to existing concrete pads in accordance with the manufacturer's engineered tie down system.
- Exposed refrigerant pipe insulation that is damaged shall be replaced with ¾" elastomeric insulation, painted per manufacturer's recommendations.
- Corroded refrigerant pipe supports shall be replaced like for like.
- Provide new split systems with new OEM programmable thermostat.
- Existing disconnect switch serving CU-1A,1B,2,3 to be replaced with new disconnect switch with manufacturer recommended amperage.
- Technical questions may be emailed to alberts@fesinc.biz.

Sincerely,
 FES, Inc.

Albert Shub, P.E. LEED AP
 President, Engineer of Record

Attachment G: Club 19 - Plans / Drawings



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 North Miami Beach, FL 33169
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April 22, 2024

CITY OF PEMBROKE PINES – HVAC EQUIPMENT REPLACEMENT PROJECT

To: All Bidders

Facility Name: **CLUB 19 GOLF CLUB BUILDING**

Address: 10500 Taft Street, Pembroke Pines, Florida

Basic Scope of Work – Replacement of (6) – existing Split Systems

- (1) - Existing AHU-1 MFG/Model # - TRANE/TWE120B (Split Coil, Ceiling Hung), (1) CU-1A TRANE/TTA07243A (This CU remains in service, not part of scope) + (1) CU-1B THERMAL ZONE/TZAA-348-CC757
- (1) - Existing AHU-2 MFG/Model # - TRANE/TWE062E13FA (Split Coil, Ceiling Hung), (1) CU-2A TTN030D100A0 + (1) CU-2B THERMAL ZONE/TZAA-324-2C757 (2 ton CU to be replaced with 2.5 ton CU)
- (1) - Existing AHU-3 MFG/Model # - TRANE/TWE120B (Split Coil, Ceiling Hung), (1) CU-3A TRANE/TTA07243A + (1) CU-1B TRANE/TTA072D300A
- (1) - Existing AHU-4 MFG/Model # - TRANE/TWE090B (Split Coil, Ceiling Hung), (1) CU-4A THERMAL ZONE/TZAA342-2C757 + (1) CU-4B TRANE /TTR042D100B0
- (1) - Existing AHU-5 MFG/Model # - TRANE/TWE065E13FA (Ceiling Hung), (1) - CU-5 RHEEM /13AJA60CO1757
- (1) - Existing AHU-6 MFG/Model # - TRANE/TWE180B (Split Coil, Ceiling Hung), (1) CU-6A TRANE/TTA090A300DA + (1) CU-1B TRANE/TTA09043AA (This CU remains in service, not part of scope).

New Equipment Schedule:

Condensing Unit Tag	CU-1A	CU-1B	CU-2A	CU-2B	CU-3A	CU-3B	CU-4A	CU-4B	CU-5	CU-6A	CU-6B	
Manufacturer	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	
Nominal Tons	6.0	6.0	2.5	2.5	6.0	6.0	3.5	3.5	5.0	7.5	7.5	
EER / IEER or SEER2	Existing system to remain in service. Not part of scope.	11.5/14.8	14.3	14.3	11.5/14.8	11.5/14.8	14.3	14.3	14.3	This piece of equipment will be provided by the City of Pembroke Pines and installed by the mechanical contractor	Existing system to remain in service. Not part of scope.	
Refrigerant		R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a			R410a
Condenser Model		TTA07243A	4TTR4030N	4TTR4030N	TTA07243A	TTA07243A	4TTR4042N	4TTR4042N	4TTR4060N			
Total Capacity - MBH		75.0	29	29	75.0	75.0	37.7	37.7	58.0			
Sensible Capacity - MBH		59.0	26	26	59.0	59.0	33.5	33.5	35.0			
Compressor - Qty-Type		1-SCROLL	1 - CLIMATUFF	1 - CLIMATUFF	1-SCROLL	1-SCROLL	1 - CLIMATUFF	1 - CLIMATUFF	1 - CLIMATUFF			
Compressor - RLA-LRA		19.6 A	12.2 - 80.1	12.2 - 80.1	19.6 A	19.6 A	15.4 - 92.1	15.4 - 92.1	21.9 - 118.7			
Condenser Fan - HP-FLA		2.3 A	1/8 - 0.77	1/8 - 0.77	2.3 A	2.3 A	1/5 - 1.05	1/5 - 1.05	1/5 - 0.97			
Voltage		208-3-60	208-1-60	208-1-60	208-3-60	208-3-60	208-1-60	208-1-60	208-1-60			
MCA		27	16	16	27	27	20	20	28			
MOCP		45	25	25	45	45	35	35	50			
Dimensions - W x D x H (in.)		41.9x36.3x39.1	32.6x29.7x32.7	32.6x29.7x32.7	41.9x36.3x39.1	41.9x36.3x39.1	37.2x34.2x37.1	37.2x34.2x37.1	37.2x34.2x45.1			
Weight - lbs		324	156	156	324	324	212	212	277			
Circuits		1	1	1	1	1	1	1	1			
Liquid Line	½	3/8	3/8	½	½	3/8	3/8	3/8				
Suction Line	1-1/8	¾	¾	1-1/8	1-1/8	7/8	7/8	1-1/8				
AHU Tag	AHU-1	AHU-2		AHU-3		AHU-4		AHU-5	AHU-6			
AHU Model	TWE1504B (SPLIT COIL)	TWE0604BD (SPLIT COIL)		TWE1504BD (SPLIT COIL)		TWE09043BD (SPLIT COIL)		TEM48B0C60	TWE1504B (SPLIT COIL)			
Entering Air - DB/WB	80/67	80/67		80/67		80/67		80/67	80/67			
CFM	5000	2000		5000		2800		1800	5000			
ESP	1.0	1.0		1.0		1.0		0.40	1.0			
Leaving Air - DB/WB	59.0/57.0			59.0/57.0		57.6/56.7		57.6/56.2	59.0/57.0			
Blower Motor - HP/FLA	5-15.1			5 - 15.1		2.0 - 5.3		0.75 - 6.0	5-15.1			
Electric Heater Kw	15 (flanged)	7.5 (flanged)		15 (flanged)		9.97		7.2	15 (flanged)			
Voltage	208-3-60	208-3-60		208-3-60		208-3-60		208-1-60	208-3-60			
MCA	71			71		37		51	71			
MOCP	80			80		40		60	80			
Filters - Qty-Size	See MFG Specs	See MFG Specs		See MFG Specs		See MFG Specs		See MFG specs	See MFG Specs			
Dimensions - W x D x H in.)	79.56 x 29.06 x 69.06			79.56 x 29.06 x 69.06		45.1 x 47.5 x 25.5		23.5x21.1x57.4	79.56 x 29.06 x 69.06			
Weight - lbs	676			676		360		174	676			

AHU-1,2,3,4,6 Notes:

Provide single piece horizontal AHU with factory installed belt driven motor, noncorrosive composite drain pan, single point power connection, factory installed thermal expansion valve, field installed electric heat, OEM programmable thermostat.

CU-1B, 3A, 3B Notes:

Provide factory installed crank case heater, phase monitor, copper tube aluminum fin condenser coil.

AHU-5 Notes:

Provide field installed filtered return, factory installed PSC motor, noncorrosive drain pan, aluminum evaporator coil with thermal expansion valve.

CU-2A, 2B, 4A, 4B, 5 Notes:

Provide single stage condensing unit with factory installed composite base, aluminum condenser coil, field installed OEM programmable thermostat.

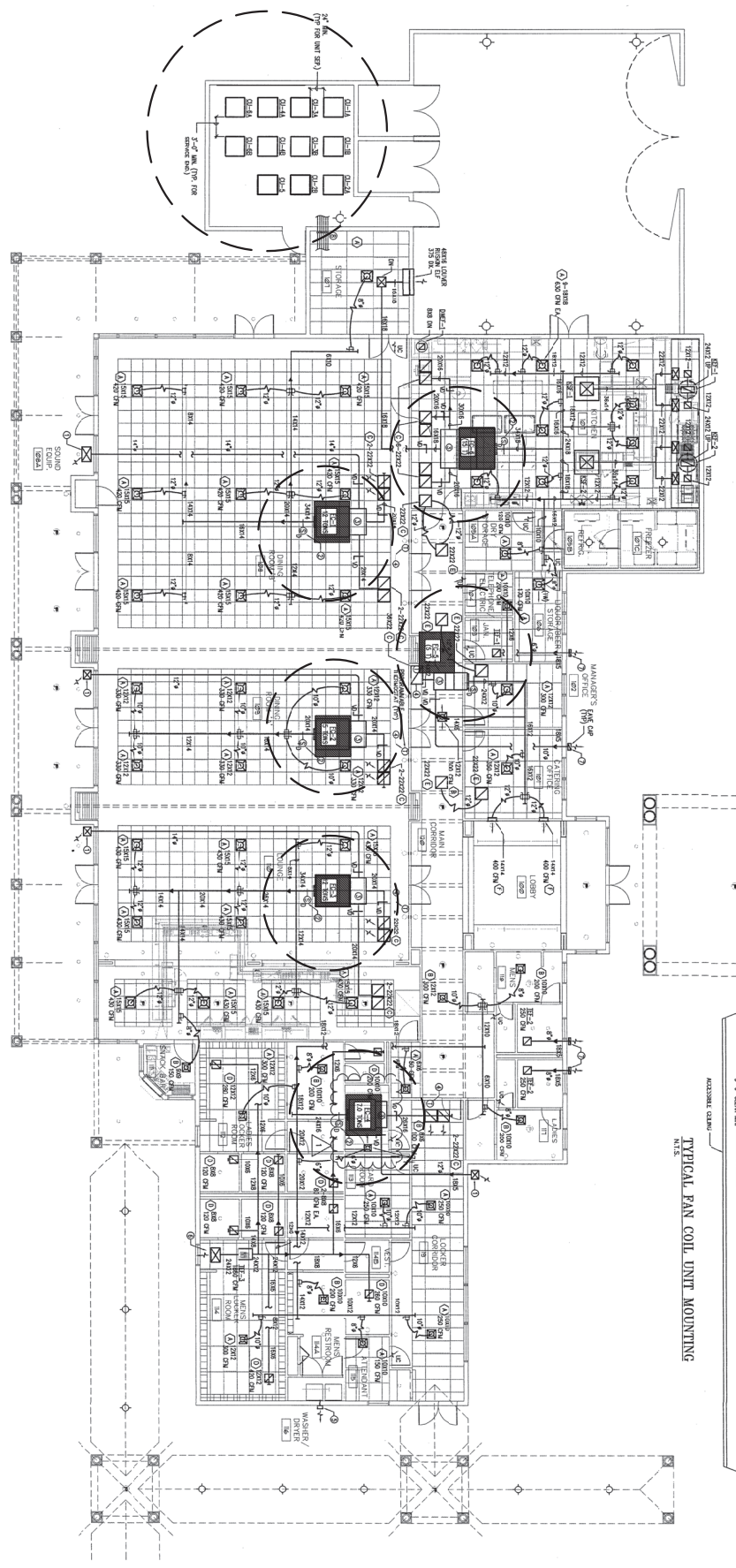
Instructions to bidders:

- Visit project site and become familiar with existing equipment, accessories, and conditions prior to submitting bid documents.
- Follow City of Pembroke Pines Bidding Instructions.
- All existing air handlers have horizontal cabinet configuration and are installed above ceilings. AHU-5 is installed in attic space within an insulated room. Exact model numbers of all existing AHUs to be verified on site.
- Legally remove and dispose of existing equipment slated for replacement.
- All existing refrigerant piping is to be re-used. Refrigerant piping serving R22 systems is to be fully flushed free oil using approved chemicals and procedures.
- New air handler to be connected to existing condensate drain line. Provide new condensate trap as required by equipment manufacturer.
- Install new fresh air intake dampers in existing fresh air intake duct. Location of duct to be verified in field. Diameter/size to be measured in field. The damper to have 24V actuator wired to AHU control block. Damper to be open when condensing unit is on, closed when condensing unit is off.
- Existing duct detectors to be re-used and wired to shut off the new air handlers upon detection of smoke, etc. per existing fire alarm sequence of operations.
- Provide AHUs with new, internal condensate float switch.
- Condensing units to be tied down to existing concrete pads in accordance with the manufacturer's engineered tie down system.
- Existing disconnect switch serving CUs to be replaced with new disconnect switch with manufacturer recommended amperage.
- All exposed refrigerant pipe insulation shall be replaced with ¾" elastomeric insulation, painted per manufacturer's recommendations.
- All exterior refrigerant pipe supports shall be replaced like for like.
- Technical questions may be emailed to alberts@fesinc.biz.

Thank you.

Sincerely,
 FES, Inc.

Albert Shub, P.E. LEED AP
 President, Engineer of Record



FLOOR PLAN SCALE: 1/8" = 1'-0"

TYPICAL FAN COIL UNIT MOUNTING
N.T.S.

	REVISIONS BY _____	LICENSE NO. _____	PROJECT CLUB 19 GOLF CLUB	AS IND _____	DRAWN BY: A. NUNEZ	DESCRIPTION AC
	SEAL _____	_____	_____	_____	_____	_____

ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

October 19, 2023

Application Number: FL 19588.3
EX Project Number: 23-68290

Product Manufacturer: Trane Technologies
Manufacturer Address: 6200 Troup Hwy
Tyler, TX 75707, USA

Product Name & Description: Trane Condenser (Ground Mounted)

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-68290 titled "TRANE CONDENSER (GROUND MOUNTED)", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 2.

- **TEST REPORTS**

The product has been tested per the following:

Test Lab	Test Report #	Test Standard	Test Description	Signed & Sealed By:
American Test Lab of South Florida	0708.01-15	ASTM E330, TAS 202	Uniform Static Wind Loading	Stephen Warter, P.E.

Trane Technologies – Trane Condenser (Ground Mounted)

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Minimum Allowable Unit Width
2. Maximum Allowable Unit Height
3. Minimum Unit Weight
4. Maximum Allowable Unit Surface Area
5. Clip Configuration and Anchor Spacing
6. Anchor Capacity for Various Substrates

Impact Resistance:

Impact Resistance has not been demonstrated.

Wind Load Resistance:

This product has been designed to resist wind loads as indicated on its respective Performance Evaluation document (i.e. engineering document).

Installation:

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions that are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

Frank Bennardo, P.E.
ENGINEERING EXPRESS®
#PE0046549 | Cert. Auth. 9885



Certificate of Product Ratings

AHRI Certified Reference Number : 9131852 Date : 04-17-2024 Model Status : Production Stopped

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Series : XR14

Outdoor Unit Brand Name : TRANE

Outdoor Unit Model Number (Condenser or Single Package) : 4TTA4048A4

Indoor Unit Model Number (Evaporator and/or Air Handler) : TEM6A0C48H41+TDR+UF/HRZ

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 48000

SEER : 15.00

EER (A2) - Single or High Stage (95F) : 13.00



†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRI.net.org for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

133578389004048387



Certificate of Product Ratings

AHRI Certified Reference Number : 208155418 Date : 04-17-2024 Model Status : Active

AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)

Outdoor Unit Brand Name : TRANE

Outdoor Unit Model Number (Condenser or Single Package) : 4TTR4060N1

Indoor Unit Model Number (Evaporator and/or Air Handler) : TEM6B0C60H51+TDR

Region : All (AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, ID, IL, IA, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WV, WI, WY, U.S. Territories)

Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.

The manufacturer of this TRANE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 56000

SEER2 : 14.60

EER2 (A_{Full}) – Single or High Stage (95F) : 12.00



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Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRI.net for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

133578392237402331

Air System Sizing Summary for AHU-1 Offices

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:20PM

Air System Information

Air System Name: **AHU-1 Offices**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **710.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	3.9 Tons	Load occurs at:	Jul 1600
Total coil load:	46.9 MBH	OA DB / WB:	91.7/78.9 F
Sensible coil load:	35.6 MBH	Entering DB / WB:	77.2/64.6 F
Coil airflow:	1483 CFM	Leaving DB / WB:	54.9/53.8 F
Sensible heat ratio:	0.760	Coil ADP:	52.4 F
Area per unit load:	181.8 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	66.0 BTU/(hr-sqft)	Resulting RH:	49 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	16.3 MBH	Load occurs at:	Des Htg
Coil airflow:	1483 CFM	Ent DB / Lvg DB:	67.6/77.8 F
Load per unit area:	23.0 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	1483 CFM	Fan motor BHP:	0.43 BHP
Standard airflow:	1482 CFM	Fan motor kW:	0.32 kW
Actual max airflow per unit area:	2.09 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	160 CFM	Airflow per person:	20.00 CFM/person
Airflow per unit floor area:	0.23 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-1 Offices	32.0	1483	Jul 1600	12.8	710.0	2.09

System Design Load Summary for AHU-1 Offices

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:20PM

	DESIGN COOLING			DESIGN HEATING		
	Jul 1600			Design Heating Day		
	OA DB / WB 91.7 F / 78.9 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	366 sqft	14625	-	366 sqft	-	-
Wall Transmission	210 sqft	513	-	210 sqft	564	-
Roof Transmission	710 sqft	1824	-	710 sqft	1534	-
Window Transmission	366 sqft	5710	-	366 sqft	9223	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	0 sqft	0	-	0 sqft	0	-
Floor Transmission	710 sqft	0	-	710 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	660 W	2253	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	829	2029	-	1492	1
Miscellaneous	-	3000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	32018	4189	-	12814	1
Thermostat and Pulldown Adjustment	-	-302	0	-	448	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	160 CFM	2805	7049	160 CFM	4182	0
Supply Fan Load	1483 CFM	1099	-	1483 CFM	-1099	-
>> Total System Loads	-	35620	11238	-	16344	1
Central Cooling Coil	-	35620	11242	-	0	0
Central Heating Coil	-	0	-	-	16344	-
>> Total Coil Loads	-	35620	11242	-	16344	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-1 Offices

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:20PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	366 sqft	14221	-	366 sqft	-	-
Wall Transmission	210 sqft	508	-	210 sqft	564	-
Roof Transmission	710 sqft	1764	-	710 sqft	1534	-
Window Transmission	366 sqft	5748	-	366 sqft	9223	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	0 sqft	0	-	0 sqft	0	-
Floor Transmission	710 sqft	0	-	710 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	660 W	2253	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	846	2016	-	1492	1
Miscellaneous	-	3000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	31604	4176	-	12814	1

Air System Sizing Summary for AHU-2 Foyer/Baths

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:28PM

Air System Information

Air System Name: **AHU-2 Foyer/Baths**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **1550.9** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	4.8 Tons	Load occurs at:	Jul 1500
Total coil load:	57.9 MBH	OA DB / WB:	92.0/79.0 F
Sensible coil load:	35.8 MBH	Entering DB / WB:	80.5/68.6 F
Coil airflow:	1302 CFM	Leaving DB / WB:	55.0/54.1 F
Sensible heat ratio:	0.618	Coil ADP:	52.2 F
Area per unit load:	321.3 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	37.4 BTU/(hr-sqft)	Resulting RH:	51 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	24.2 MBH	Load occurs at:	Des Htg
Coil airflow:	1302 CFM	Ent DB / Lvg DB:	62.5/79.7 F
Load per unit area:	15.6 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	1302 CFM	Fan motor BHP:	0.38 BHP
Standard airflow:	1301 CFM	Fan motor kW:	0.28 kW
Actual max airflow per unit area:	0.84 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	400 CFM	Airflow per person:	50.00 CFM/person
Airflow per unit floor area:	0.26 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-2 Foyer/Baths	28.1	1302	Jul 1600	15.0	1550.9	0.84

System Design Load Summary for AHU-2 Foyer/Baths

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:28PM

	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	120 sqft	1974	-	120 sqft	-	-
Wall Transmission	597 sqft	1335	-	597 sqft	1605	-
Roof Transmission	1551 sqft	3854	-	1551 sqft	3350	-
Window Transmission	120 sqft	1885	-	120 sqft	3024	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	192 sqft	5714	-	192 sqft	4686	-
Floor Transmission	1551 sqft	0	-	1551 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	1039 W	3545	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	1335	3066	-	2355	1
Miscellaneous	-	5000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	27905	5226	-	15019	1
Thermostat and Pulldown Adjustment	-	-205	0	-	-132	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	400 CFM	7158	16877	400 CFM	10296	0
Supply Fan Load	1302 CFM	965	-	1302 CFM	-965	-
>> Total System Loads	-	35823	22103	-	24218	1
Central Cooling Coil	-	35823	22106	-	0	0
Central Heating Coil	-	0	-	-	24218	-
>> Total Coil Loads	-	35823	22106	-	24218	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-2 Foyer/Baths

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:28PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	120 sqft	1974	-	120 sqft	-	-
Wall Transmission	597 sqft	1335	-	597 sqft	1605	-
Roof Transmission	1551 sqft	3854	-	1551 sqft	3350	-
Window Transmission	120 sqft	1885	-	120 sqft	3024	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	192 sqft	5714	-	192 sqft	4686	-
Floor Transmission	1551 sqft	0	-	1551 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	1039 W	3545	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	8	2240	2160	0	0	0
Infiltration	-	1335	3066	-	2355	1
Miscellaneous	-	5000	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	27905	5226	-	15019	1

Air System Sizing Summary for AHU-3-Meeting Room #1

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:40PM

Air System Information

Air System Name: **AHU-3-Meeting Room #1**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **2090.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	9.7	Tons	Load occurs at:	Aug 1400
Total coil load:	116.9	MBH	OA DB / WB:	91.7/78.9 F
Sensible coil load:	71.7	MBH	Entering DB / WB:	79.2/68.4 F
Coil airflow:	2896	CFM	Leaving DB / WB:	56.3/55.4 F
Sensible heat ratio:	0.613		Coil ADP:	53.7 F
Area per unit load:	214.5	sqft/Ton	Bypass Factor:	0.100
Load per unit area:	56.0	BTU/(hr-sqft)	Resulting RH:	56 %
			Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	43.4	MBH	Load occurs at:	Des Htg
Coil airflow:	2896	CFM	Ent DB / Lvg DB:	64.2/78.1 F
Load per unit area:	20.8	BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	2896	CFM	Fan motor BHP:	0.84	BHP
Standard airflow:	2894	CFM	Fan motor kW:	0.63	kW
Actual max airflow per unit area:	1.39	CFM/sqft	Fan static:	1.00	in wg

Outdoor Ventilation Air Data

Design airflow:	700	CFM	Airflow per person:	20.00	CFM/person
Airflow per unit floor area:	0.33	CFM/sqft			

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-3-Meeting Room #1	62.5	2896	Oct 1300	27.2	2090.0	1.39

System Design Load Summary for AHU-3-Meeting Room #1

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:40PM

	DESIGN COOLING			DESIGN HEATING		
	Aug 1400			Design Heating Day		
	OA DB / WB 91.7 F / 78.9 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	17470	-	641 sqft	-	-
Wall Transmission	266 sqft	592	-	266 sqft	716	-
Roof Transmission	2090 sqft	4769	-	2090 sqft	4514	-
Window Transmission	641 sqft	9816	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	3849	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1489	3101	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	56963	19026	-	27183	1
Thermostat and Pulldown Adjustment	-	148	0	-	215	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	700 CFM	12414	26239	700 CFM	18150	0
Supply Fan Load	2896 CFM	2147	-	2896 CFM	-2147	-
>> Total System Loads	-	71672	45265	-	43402	1
Central Cooling Coil	-	71672	45265	-	0	0
Central Heating Coil	-	0	-	-	43402	-
>> Total Coil Loads	-	71672	45265	-	43402	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-3-Meeting Room #1

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:40PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	15215	-	641 sqft	-	-
Wall Transmission	266 sqft	553	-	266 sqft	716	-
Roof Transmission	2090 sqft	5193	-	2090 sqft	4514	-
Window Transmission	641 sqft	10064	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	3975	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1519	2998	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	55498	18923	-	27183	1

Air System Sizing Summary for AHU-3-Meeting Room #2

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:41PM

Air System Information

Air System Name: **AHU-3-Meeting Room #2**
 Air System Type: **Single Zone CAV**
 Number of zones: **1**
 Floor Area: **2090.0** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**
 Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load:	9.8 Tons	Load occurs at:	Jul 1500
Total coil load:	117.9 MBH	OA DB / WB:	92.0/79.0 F
Sensible coil load:	71.2 MBH	Entering DB / WB:	79.8/68.5 F
Coil airflow:	2616 CFM	Leaving DB / WB:	54.6/53.7 F
Sensible heat ratio:	0.603	Coil ADP:	51.8 F
Area per unit load:	212.7 sqft/Ton	Bypass Factor:	0.100
Load per unit area:	56.4 BTU/(hr-sqft)	Resulting RH:	54 %
		Design supply temp:	55.0 F

Central Heating Coil Sizing Data

Max coil load:	43.3 MBH	Load occurs at:	Des Htg
Coil airflow:	2616 CFM	Ent DB / Lvg DB:	63.5/78.8 F
Load per unit area:	20.7 BTU/(hr-sqft)		

Supply Fan Sizing Data

Actual max airflow:	2616 CFM	Fan motor BHP:	0.76 BHP
Standard airflow:	2615 CFM	Fan motor kW:	0.57 kW
Actual max airflow per unit area:	1.25 CFM/sqft	Fan static:	1.00 in wg

Outdoor Ventilation Air Data

Design airflow:	700 CFM	Airflow per person:	20.00 CFM/person
Airflow per unit floor area:	0.33 CFM/sqft		

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-3-Meeting Room #2	56.5	2616	Jul 1500	27.2	2090.0	1.25

System Design Load Summary for AHU-3-Meeting Room #2

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:41PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	16124	-	641 sqft	-	-
Wall Transmission	266 sqft	587	-	266 sqft	716	-
Roof Transmission	2090 sqft	5193	-	2090 sqft	4514	-
Window Transmission	641 sqft	10064	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	4010	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1519	3260	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	56476	19185	-	27183	1
Thermostat and Pulldown Adjustment	-	109	0	-	-56	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	700 CFM	12630	27583	700 CFM	18071	0
Supply Fan Load	2616 CFM	1939	-	2616 CFM	-1939	-
>> Total System Loads	-	71154	46769	-	43259	1
Central Cooling Coil	-	71154	46777	-	0	0
Central Heating Coil	-	0	-	-	43259	-
>> Total Coil Loads	-	71154	46777	-	43259	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

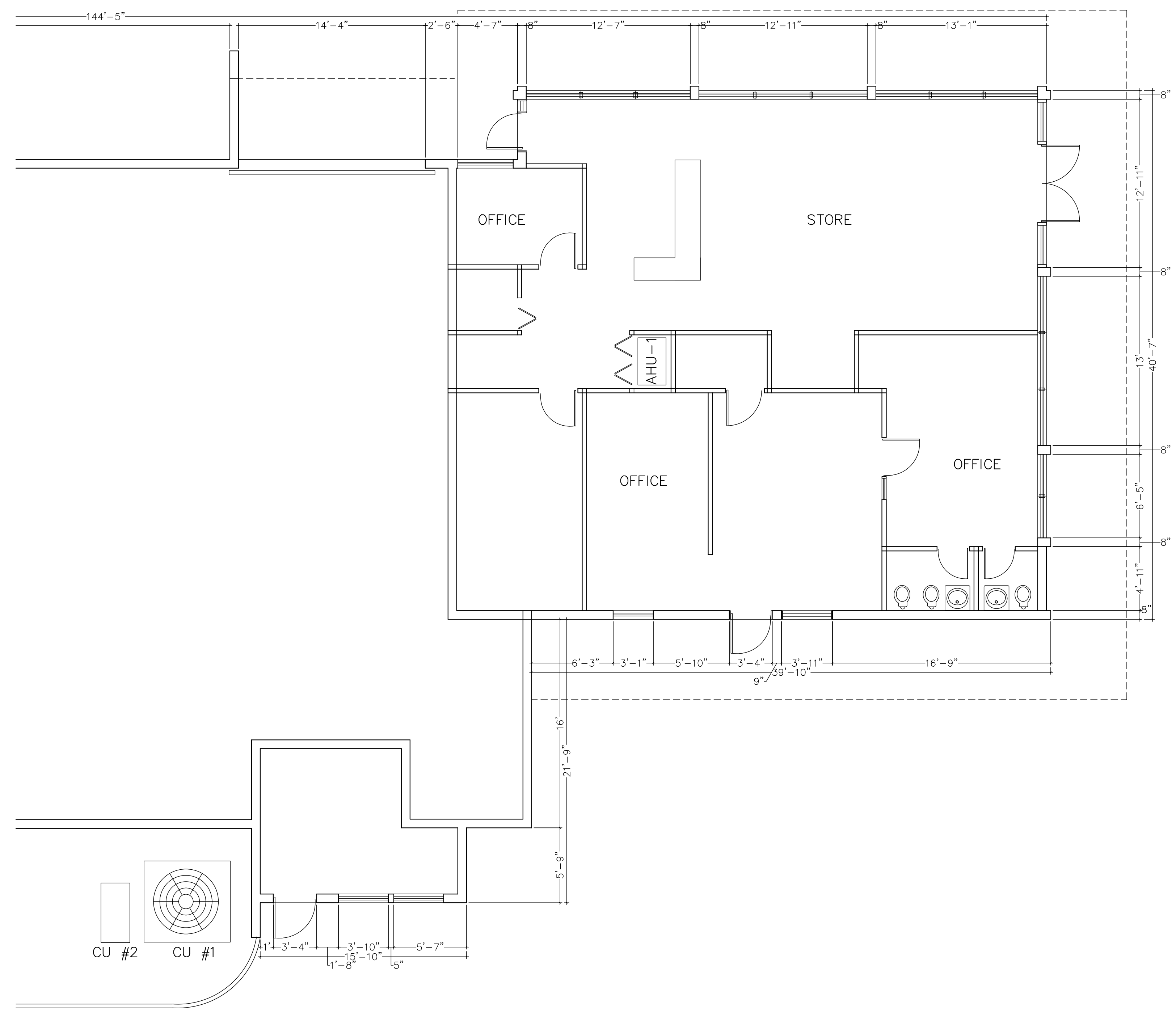
Zone Design Load Summary for AHU-3-Meeting Room #2

Project Name: AC ROSE PRICE PARK
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 03:41PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	641 sqft	16124	-	641 sqft	-	-
Wall Transmission	266 sqft	587	-	266 sqft	716	-
Roof Transmission	2090 sqft	5193	-	2090 sqft	4514	-
Window Transmission	641 sqft	10064	-	641 sqft	16148	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	128 sqft	4010	-	128 sqft	3124	-
Floor Transmission	2090 sqft	0	-	2090 sqft	0	-
Partitions/Ceilings	0 sqft	0	-	0 sqft	0	-
Overhead Lighting	2236 W	7630	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	35	10325	15925	0	0	0
Infiltration	-	1519	3260	-	2681	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	56476	19185	-	27183	1

Attachment H: Golf Pro Shop - Plans / Drawings



FLOOR PLAN SCALE: 3/16"=1'-0"

REVISIONS	BY
△	---
△	---

LICENSE NO.

SEAL

PROJECT
 AC CLUB 19 PRO-SHOP BLDG

AS IND

 DRAWN BY:
 A. NUNEZ

DESCRIPTION

AC



34 N.W. 168th Street
 North Miami Beach, FL 33169
 Telephone: (305) 653-0212
 Fax: (305) 653-0232
 e-mail: fesmain@bellsouth.net

April 15, 2024

CITY OF PEMBROKE PINES – HVAC EQUIPMENT REPLACEMENT PROJECT

To: All Bidders

Facility Name: **CLUB 19 PRO SHOP BUILDING**

Address: 10500 Taft Street, Pembroke Pines, Florida

Basic Scope of Work – Replacement of (1) – existing Split Systems

- (1) - Existing AHU-1 MFG/Model # - RHEEM/RHGE075, (1) – CU RHEEM/RAWD076AZ

New Equipment Schedule:

Condensing Unit Tag	CU-1
Manufacturer	Trane
Nominal Tons	6.0
EER / IEER or SEER2	11.5/13.10
Refrigerant	R410a
Condenser Model	TTA07243D
Total Capacity - MBH	77.0
Sensible Capacity - MBH	61.0
Compressor - Qty-Type	1-Scroll
Compressor - RLA-LRA	19.6 A
Condenser Fan - HP-FLA	2.3 A
Voltage	208-3-60
MCA	27
MOCP	45
Dimensions - W x D x H (in.)	42 x 36 x 39
Weight - lbs	324
Circuits	1
Liquid Line	½
Suction Line	1-1/8
AHU Tag	AHU-1
AHU Model	TWE09043A
Entering Air - DB/WB	80/67
CFM	2400
ESP	1.0"
Leaving Air - DB/WB	57.6/56.7
Blower Motor - HP/FLA	2-5.3
Electric Heater Kw	9.9
Voltage	208-3-60
MCA	Per MFG specs for heater/fan.
MOCP	
Filters - Qty-Size	See MFG specs
Dimensions - W x D x H in.)	47.5 x 25.5 x 54.06
Weight - lbs	360

AHU-1 Notes:

Provide single piece horizontal AHU with factory installed belt driven motor, noncorrosive composite drain pan, single point power connection, factory installed thermal expansion valve, field installed electric heat, OEM programmable thermostat.

CU-1 Notes:

Provide factory installed crank case heater, phase monitor, copper tube aluminum fin condenser coil.

Instructions to bidders:

- Visit project site and become familiar with existing equipment, accessories, and conditions prior to submitting bid documents.
- Follow City of Pembroke Pines Bidding Instructions.
- Existing A/C closet will be enlarged (by others) to fit new AHU. The existing water heater below the current AHU will be relocated (by others).
- Legally remove and dispose of existing equipment slated for replacement.
- All existing refrigerant piping is to be re-used. Refrigerant piping serving R22 systems is to be fully flushed free oil using approved chemicals and procedures.
- New AHU-1 and flanged electric heater to be provided separate electrical connections. Existing circuit breakers to be replaced as needed by new equipment.
- New air handler to be connected to existing condensate drain line. Provide new condensate trap as required by equipment manufacturer.
- Install new fresh air intake dampers in existing fresh air intake duct. Location of duct to be verified in field. Diameter/size to be measured in field. The damper to have 24V actuator wired to AHU control block. Damper to be open when condensing unit is on, closed when condensing unit is off.
- Existing duct detectors to be re-used and wired to shut off the new air handlers upon detection of smoke, etc. per existing fire alarm sequence of operations.
- New AHU-1 to be set on new aluminum stand.
- Provide AHU-1 with new, internal condensate float switch.
- Condensing unit to be tied down to existing concrete pads in accordance with the manufacturer's engineered tie down system.
- Existing disconnect switch serving CU-1 to be replaced with new disconnect switch with manufacturer recommended amperage.
- Exposed refrigerant pipe insulation that is damaged shall be replaced with ¾" elastomeric insulation, painted per manufacturer's recommendations.
- Corroded refrigerant pipe supports shall be replaced like for like.
- Technical questions may be emailed to alberts@fesinc.biz.

Thank you.

Sincerely,
 FES, Inc.

Albert Shub, P.E. LEED AP
 President, Engineer of Record

Douglas Ruggiano, P.E., P.A.

10059 SW 156th Avenue

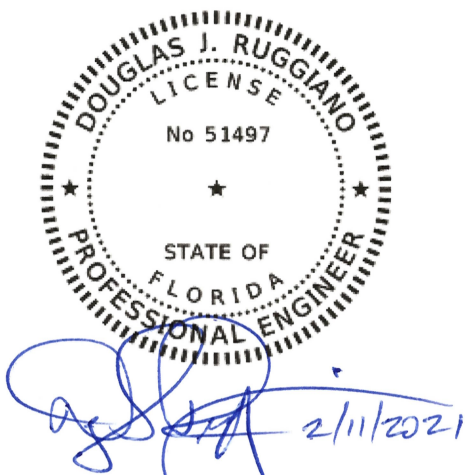
Miami, FL. 33196

786-210-0881

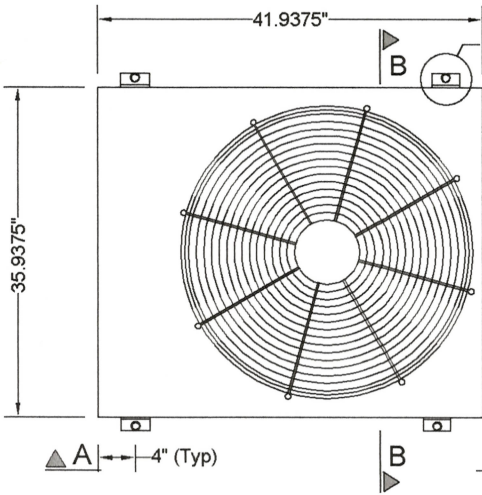
Reference: **Product Certification Statement**
Rooftop Mounted Mechanical Equipment
TRANE ODYSSEY SERIES
6 to 7.5 Ton Condensing Unit Chassis
Model Nos.:
TTA0724*A, TTA0724*D, TTA0904*A, TTA0904*D

Based on the manufacturers cut sheets for the referenced rooftop equipment, I have performed a wind load analysis to determine compliance with wind load criteria set forth by the 2020 Florida Building Code (7th Edition) - Mechanical Section 301.15, Florida Building Code - Building Chapter 16 and ASCE 7-16. Analysis results show that the equipment is structurally adequate to withstand wind loads at the specified mounting heights and Exposure Categories identified in Table 1 and may be tied down to host structure with Tie Down Clips as specified in the in the attached A/C mounting plans. For analysis results, refer to **Summary of Analysis Results** at the end of the structures report for this certification.

TABLE 1			
Design Wind Speed	Max Mounting Height above Natural Grade (ft)		Kz
	Exposure C	Exposure D	
120	500	500	2.79
130	500	500	2.37
140	500	500	2.05
150	500	350	1.78
160	275	170	1.57
170	160	80	1.39
175	120	60	1.31
180	90	45	1.24
186	69	30	1.16
190	55	24	1.11
200	30	20	1.00

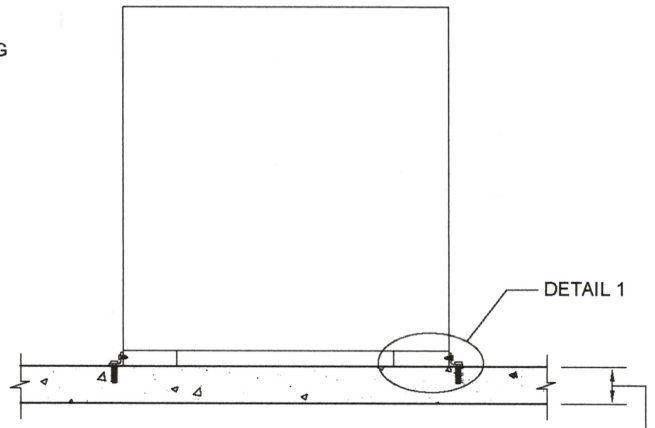


Douglas J. Ruggiano, P.E.
Florida License No. 51497



PLAN

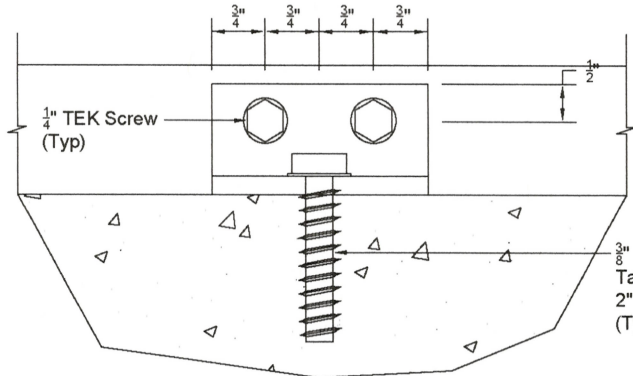
Tie Down Bracket
 Alum L 1 1/2" x 1 1/2" x 1/2" x 0'-3" LG
 (Typ of 4)



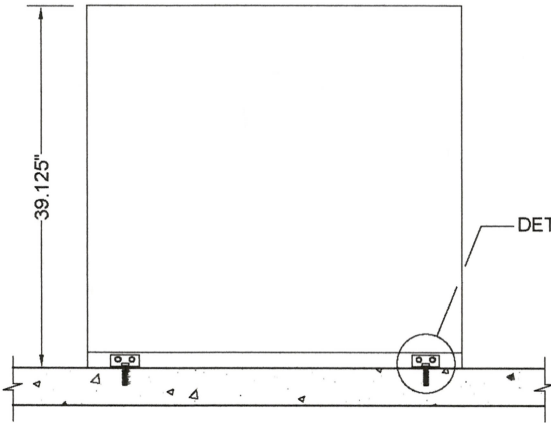
SECTION B-B

Conc Substrate
 4" Min Thickness
 f_c (Min) = 2,000 psi

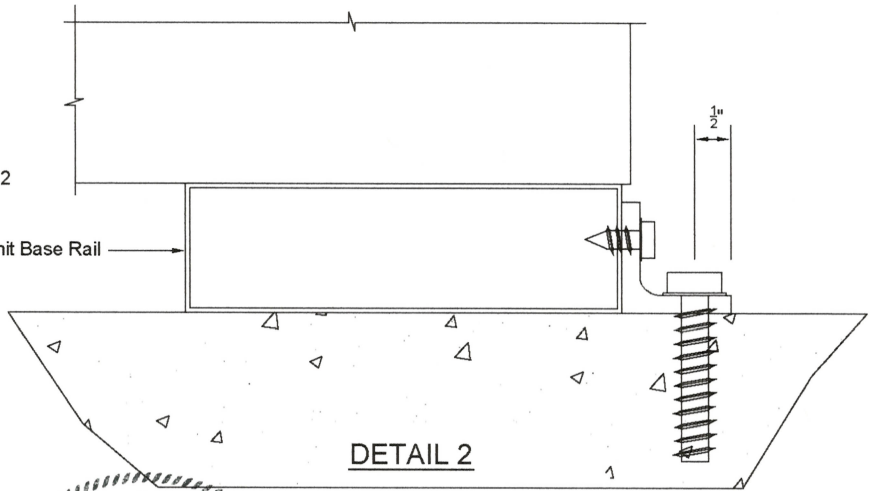
Note: This Tie Down Design is applicable for the Design Wind Speed & Mounting Height as specified in the Wind Certification Statement for the referenced Model.



DETAIL 1



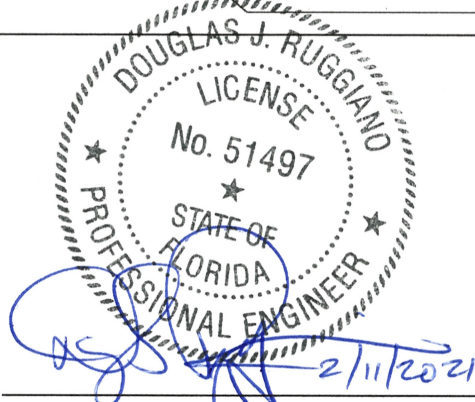
ELEVATION VIEW A-A



DETAIL 2

**TRANE
 ODYSSEY SERIES
 6 - 7.5 TON CHASIS**

MODEL Nos.:
 TTA0724*A, TTA0724*D
 TTA0724*A, TTA0724*D



Douglas Ruggiano, P.E.
 FL Lice. No. 51497

**CONDENSING
 UNIT TIE DOWN
 DETAIL**

SHEET 1 OF 1

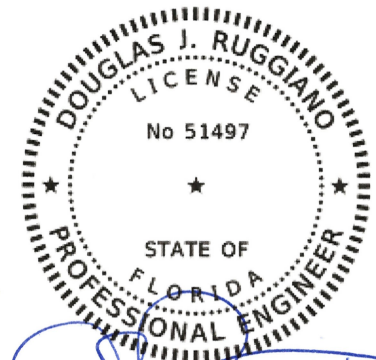
WIND LOAD ANALYSIS AND STRUCTURAL CALCULATIONS
FOR
FASTENING AND TIE DOWN REQUIREMENTS
OF
MECHANICAL EQUIPMENT
TRANE ODYSSEY SERIES CONDENSING UNIT
GROUP I – 6 TO 7.5 TONS

MODEL NOS:

TTA0724*A, TTA0724*D
TTA0904*A, TTA0904*D

Table of Contents

<u>Section</u>	<u>Description</u>	<u>Pages</u>
1	Wind Analysis & Equipment Tie Down Design	1 thru 14
Appendix	Equipment Cut Sheets	1 thru 4



Prepared By:

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Miami, FL. 33196
786-210-0881

[Handwritten signature] 2/11/2021

FEBRUARY 2021

Section 1

Wind Load Analysis for Rooftop Mounted Equipment
Equipment: TRANE - ODYSSEY - Group 1 - 6 To 7.5 Ton
(For Equipment Data Refer to Cut Sheets in the Appendix)

Approximate Weight of Unit (w_{unit}):

$$w_{unit} := 240 \text{ lbf}$$

Length of Unit (L_e):

$$L_e := 42 \text{ in}$$

Width of Unit (W_e):

$$W_e := 36 \text{ in}$$

Height of Unit (H_e):

$$H_e := 39.1875 \text{ in}$$

Corner Weight at Point A (Rd_{A_c}):

$$Rd_A := \frac{w_{unit}}{4} = 60 \text{ lbf}$$

Corner Weight at Point B (Rd_{B_c}):

$$Rd_B := \frac{w_{unit}}{4} = 60 \text{ lbf}$$

Corner Weight at Point C (Rd_{C_c}):

$$Rd_C := \frac{w_{unit}}{4} = 60 \text{ lbf}$$

Corner Weight at Point D (Rd_{D_c}):

$$Rd_D := \frac{w_{unit}}{4} = 60 \text{ lbf}$$

Material Data:

Ultimate Tensile Strength of Cold Formed Sheet Metal Casing in Contact with Screw Head (Fu_{casing}):

$$Fu_{casing} := 45 \text{ ksi}$$

Ultimate Tensile Strength of Cold Formed Sheet Metal Casing Not in Contact with Screw Head (Fu_{casing}):

$$Fu_{casing} := 45 \text{ ksi}$$

Ultimate Strength of Metal Fasteners (Fu_{fast}):

$$Fu_{fast} := 60 \text{ ksi}$$

Calculate Wind Load (Per ASCE 7-16)

Design Wind Speed (V):

$$V := 186 \text{ mph}$$

Mounting Height above Grade (H):

$$H := 30 \text{ ft}$$

Velocity pressure coefficient for specified Exposure at height from ground to Centroid of Equipment (K_z):

$$\text{ExpCat} := \text{"D"}$$

$$K_z := 1.16$$

Topographic Factor (K_{zt}):

$$K_{zt} := 1.0$$

Directionality Factor From Table 6-4 (Similar Structures) (K_d):

$$K_d := 0.90$$

Ultimate Design Velocity Pressure Evaluated at height z of the Centroid of the Effective Area (q_{zULT}):

$$q_{zULT} := 0.00256 \cdot K_z \cdot K_{zt} \cdot K_d \cdot V^2 \cdot \text{psf} \quad q_{zULT} = 92.5 \text{ psf}$$

Allowable Design Velocity Pressure Evaluated at height z of the Centroid of the Effective Area (q_z):

$$q_z := q_{zULT} \cdot 0.6 \quad q_z = 55.5 \text{ psf}$$

Latent Pressure Coefficient

$$GC_{f,lat} := 1.9$$

Uplift Pressure Coefficient

$$GC_{f,upl} := 1.5$$

Latent Wind Pressure (P_{lat}):

$$P_{lat} := q_z \cdot GC_{f,lat} \quad P_{lat} = 105.4 \text{ psf}$$

Uplift Wind Pressure (P_{upl}):

$$P_{upl} := q_z \cdot GC_{f,upl} \quad P_{upl} = 83.2 \text{ psf}$$

Projected Area Normal to Wind (A_n):

$$A_n := L_e \cdot H_e \quad A_n = 11.4 \text{ ft}^2$$

Projected Area Parallel to Wind (A_p):

$$A_p := L_e \cdot W_e \quad A_p = 10.5 \text{ ft}^2$$

Calculate the Wind Load Reactions at Unit to Host Structure (Refer to Figure I)

$$F_h := P_{lat} \cdot A_h$$

$$F_{up} := P_{upl} \cdot A_p$$

$$Rwl_A := \frac{F_h}{2} \cdot \frac{H_e}{2 \cdot W_c} - \frac{F_{up}}{4}$$

$$Rwl_B := \frac{F_h}{2} \cdot \frac{H_e}{2 \cdot W_c} - \frac{F_{up}}{4}$$

$$Rwl_C := \frac{F_h}{2} \cdot \frac{H_e}{2 \cdot W_c} + \frac{F_{up}}{4}$$

$$Rwl_D := \frac{F_h}{2} \cdot \frac{H_e}{2 \cdot W_c} + \frac{F_{up}}{4}$$

$F_h = 1.2 \text{ kip}$
 $F_{up} = 0.9 \text{ kip}$
 $Rwl_A = 0.1 \text{ kip}$ (Downward)
 $Rwl_B = 0.1 \text{ kip}$ (Downward)
 $Rwl_C = 0.5 \text{ kip}$ (Upward)
 $Rwl_D = 0.5 \text{ kip}$ (Upward)

Calculate Combined Reactions at each Anchorage Location (Dead + Wind x FStab):

Vertical Reactions:

$$R_{totA} := 0.6R_{dlA} + Rwl_A$$

$$R_{totB} := 0.6R_{dlB} + Rwl_B$$

$$R_{totC} := 0.6R_{dlC} - Rwl_C$$

$$R_{totD} := 0.6R_{dlD} - Rwl_D$$

$R_{totA} = 0.1 \text{ kip}$
 $R_{totB} = 0.1 \text{ kip}$
 $R_{totC} = -0.5 \text{ kip}$
 $R_{totD} = -0.5 \text{ kip}$

Horizontal Reactions:

$$R_{hor} := \frac{F_h}{4}$$

$R_{hor} = 0.3 \text{ kip}$

Therefore, with the assumption of 4 anchor points (1 at each corner of the unit), each anchorage to curb and corresponding building support components must be designed to withstand the Uplift Reaction of $R_{totC} = -0.5 \text{ kip}$ and a Horizontal Shear Reaction of $R_{hor} = 0.3 \text{ kip}$.

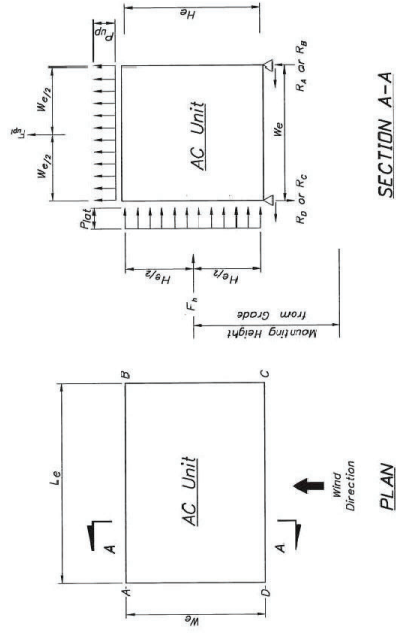


FIGURE I

Calculate No. of Fasteners Req'd for Panel No. 1 (Top Panel)

Attachment Data:

Nominal Screw Diameter (ϕ_{screw}):

$$\phi_{screw} := 0.216 \text{ in}$$

Thread Series, threads per in (unc):

$$unc := 14$$

Effective Shear Stress Area of Screw (A_v):

$$A_v := \frac{\pi}{4} \left(\frac{\phi_{screw}}{\text{in}} - \frac{1.2269}{unc} \right)^2 \cdot \text{in}^2$$

$$A_v := 0.0129 \text{ in}^2$$

Thickness of Metal Casing in Contact with Screw Head (t1):

$$t1 := 0.0359 \text{ in}$$

Thickness of Metal Casing Not in Contact with Screw Head (t2):

$$t2 := 0.0359 \text{ in}$$

Casing Thickness Ratio (rc):

$$rc := \frac{t2}{t1}$$

Panel Length (L_{pan}):

$$L_{pan} := L_c = 42 \text{ in}$$

Panel Width (W_{pan}):

$$W_{pan} := W_e = 36 \text{ in}$$

Calculate Nominal Shear per Fastener Based on Bearing for $rc \leq 1.0$ ($Pns_{c,case}$):

$$Pns1 := 4.2 \cdot \sqrt{t1^3 \cdot \phi_{screw} \cdot Fu1_{case}}$$

$$Pns1 := 0.597 \text{ kip}$$

$$Pns2 := 2.7 \cdot t1 \cdot \phi_{screw} \cdot Fu1_{case}$$

$$Pns2 := 0.942 \text{ kip}$$

$$Pns3 := 2.7 \cdot t2 \cdot \phi_{screw} \cdot Fu2_{case}$$

$$Pns3 := 0.942 \text{ kip}$$

$Pns_{case} := \text{if}(Pns1 \leq Pns2, \text{if}(Pns1 \leq Pns3), Pns3), \text{if}(Pns2 \leq Pns3, Pns2, Pns3))$

$Pns_{case} = 0.597 \text{ kip}$

Calculate Nominal Shear per Fastener Based on Shear Capacity of Screw (Pns_{screw}):

$$Pns_{screw} := Fu_{fas} \cdot A_v$$

$$Pns_{screw} = 0.776 \text{ kip}$$

Calculate Allowable Shear per Fastener (Pas):

$$\Omega_{brg} := 3.0$$

$$Pas1 := \frac{Pns_{case}}{\Omega_{brg}}$$

$$Pas1 = 0.199 \text{ kip}$$

$$\Omega_{screw} := \frac{\sqrt{3}}{0.40}$$

$$Pas2 := \frac{Pns_{screw}}{\Omega_{screw}}$$

$$Pas2 = 0.179 \text{ kip}$$

$Pas := \text{if}(Pas1 \leq Pas2, Pas1, Pas2)$

$$Pas = 0.179 \text{ kip}$$

Calculate Total Uplift on Panel (F_{upl}):

$$F_{upl} := P_{upl} \cdot L_{pan} \cdot W_{pan}$$

$$F_{upl} = 0.9 \text{ kip}$$

Calculate Total No. of Screws Required ($No_{screws1}$):

$$No_{screws1} := \text{ceil} \left(\frac{F_{upl}}{Pas} \right)$$

$$No_{screws1} = 5$$

Calculate No. of Fasteners Req'd for Panel No. 2 (Service Panel)

Designer Note:

Panel is secured to unit with screws along bottom and support flange/lip along top. The support flange/lip is checked for the remainder of load not taken by the bottom screws.

Attachment Data:

Nominal Screw Diameter (ϕ_{screw}):

$$\phi_{screw} := 0.216 \text{ in}$$

$$\phi_{head} := 0.52 \text{ in}$$

Thread Series, threads per in (unc):

$$unc := 14$$

Effective Tensile Stress Area of Screw (A_t):

$$A_t := \frac{\pi}{4} \left(\frac{\phi_{screw}}{\text{in}} - \frac{0.9743}{unc} \right)^2 \cdot \text{in}^2$$

$$A_t = 0.0168 \text{ in}^2$$

Thickness of Metal Casing in Contact with Screw Head (t1):

$$t1 := 0.0359 \text{ in}$$

Thickness of Metal Casing Not in Contact with Screw Head (t2):

$$t2 := 0.0478 \text{ in}$$

Casing Thickness Ratio (rc):

$$rc := \frac{t2}{t1}$$

Panel Length (L_{pan}):

$$L_{pan} := H_c = 39.2 \text{ in}$$

Panel Width (W_{pan}):

$$W_{pan} := W_e = 4 \text{ in} = 32 \text{ in}$$

Calculate Nominal Tension or Pullout per Fastener Based on Bearing ($Pnt_{c,case}$):

$$Pnt1 := 0.85 \cdot t2 \cdot \phi_{screw} \cdot Fu2_{case}$$

$$Pnt1 = 0.395 \text{ kip}$$

$$Pnt2 := 1.5 \cdot t1 \cdot \phi_{head} \cdot Fu1_{case}$$

$$Pnt2 = 1.26 \text{ kip}$$

$$Pnt_{case} := \text{if}(Pnt1 \leq Pnt2, Pnt1, Pnt2)$$

$$Pnt_{case} = 0.395 \text{ kip}$$

Calculate Nominal Tensile or Pullout per Fastener Based on Tensile Capacity of Screw (Pnt_{screw}):

$$Pnt_{screw} := Fu_{fas} \cdot A_t$$

$$Pnt_{screw} = 1.010 \text{ kip}$$

Calculate Allowable Pullout per Fastener (Pat):

$$\Omega_{brg} := 3.0$$

$$Pat1 := \frac{Pnt_{case}}{\Omega_{brg}}$$

$$Pat1 = 0.132 \text{ kip}$$

$$\Omega_{screw} := \frac{1}{0.40}$$

$$Pat2 := \frac{Pnt_{screw}}{\Omega_{screw}}$$

$$Pat2 = 0.404 \text{ kip}$$

$Pat := \text{if}(Pat1 \leq Pat2, Pat1, Pat2)$

$$Pat = 0.132 \text{ kip}$$

Calculate Total Horizontal Force on Panel (F_{horiz}):

Contribution Area (% of Tributary Area Taken by Screws):

$$F_{horiz} := P_{at} \cdot L_{pan} \cdot W_{pan} \cdot \%_{cont}$$

$$\%_{cont} := 40\%$$

$$F_{horiz} = 0.367 \text{ kip}$$

Calculate Total No. of Screws Required ($No_{screws2}$):

$$No_{screws2} := \text{ceil} \left(\frac{F_{horiz}}{Pat} \right)$$

$$No_{screws2} = 3$$

Calculate Fastening Requirements for Panel No. 2 (Con't)

Designer Note:

The panel flange is checked to resist bending and shear from the remainder reaction

Flange Data:

Width of flange: $b_{flange} := 0.25 \text{ in}$
 Flange Thickness: $t_{flange} := t1 = 0.036 \text{ in}$
 Flange Length: $L_{flange} := W_{pan} = 32 \text{ in}$
 Yield Strength of Cold Formed Metal (Fy): $Fy := 24 \text{ ksi}$
 Cross Sectional Area of Flange (A_{X_{pan}}): $Ax := 1.149 \text{ in}^2$
 Section Modulus of Flange: $Sx := \frac{L_{flange} \cdot t_{flange}^2}{6}$
 $Ax := t_{flange} \cdot L_{flange}$
 $Sx := 0.007 \text{ in}^3$

Calculate Total Force per Latch (F_{latch}):

$F_{latch} := P_{lat} \cdot L_{pan} \cdot W_{pan} \cdot (1 - \%cont)$

$F_{flange} = 0.551 \text{ kip}$

Calculate Forces on Flange:

Moment: $M_{flange} := F_{flange} \cdot \frac{b_{flange}}{2}$
 $M_{flange} = 0.069 \text{ kip-in}$
 Shear: $V_{flange} := F_{flange}$
 $V_{flange} = 0.551 \text{ kip}$

Check Stresses:

Bending: $fb_{flange} := \frac{M_{flange}}{Sx}$
 $fb_{flange} = 10 \text{ ksi}$

check_{bending} := if (fb_{flange} ≤ 0.6 · Fy · 1, "OK", "NG")
 check_{bending} = "OK"

Shear (f_{v_{flange}}): $fv_{flange} := \frac{V_{flange}}{Ax}$
 $fv_{flange} = 0.479 \text{ ksi}$

check_{shear} := if (fv_{flange} ≤ 0.4 · Fy · 1, "OK", "NG")
 check_{shear} = "OK"

Check_{flange} := if (fb_{flange} ≤ 0.6 · Fy, if (fv_{flange} ≤ 0.4 · Fy, "OK", "NG"), "NG")
 Check_{flange} = "OK"

Tie Down Clip Design

Clip Data:

Number of Clips Each Long Side of Unit

$N_{oclips} := 2$

$t_{clip} := \frac{1}{16} \text{ in}$

$b_{clip} := 1.5 \text{ in}$

$N_{oholes} := 3$

$\phi_{hole} := \frac{3}{16} \text{ in}$

No of Holes at Critical Section

Diameter of Holes

Net Area at Critical Section:

$A_{net} := b_{clip} \cdot t_{clip} - \phi_{hole} \cdot t_{clip} \cdot N_{oholes} = 0.059 \text{ in}^2$

Tensile Capacity of Tie Down Clip:

$T_{ALLOW} := F_{ul_tens} \cdot A_{net} \cdot 0.33 = 0.87 \text{ kip}$

Calculate Total Uplift on Each Clip (F_{upl}):

$F_{upl} := \frac{[R_{otc} + R_{otd}]}{N_{oclips}}$
 $F_{upl} = 0.5 \text{ kip}$

Tension Per Clip:

$T_{des} := F_{upl} = 510.3 \text{ lbf}$

Demand Capacity Ratio

$DC_{anchor} := \frac{T_{des}}{T_{ALLOW}} = 0.586$

Check_{anchor} := if (DC_{anchor} ≤ 1.0, "OK", "NG") = "OK"

Calculate No. of Fasteners Req'd for Each Tie Down Clip

Attachment Data:

Nominal Screw Diameter (ϕ_{screw}):

Thread Series, threads per in (unc):

Effective Shear Area of Screw (A_v):

$$A_v := \frac{\pi}{4} \left(\frac{\phi_{clip,screw} - 1.2269}{unc} \right)^2 \cdot in^2$$

Thickness of Metal Casing in Contact with Screw Head (t1):

Thickness of Metal Casing Not in Contact with Screw Head (t2):

$$rc := \frac{t2}{t1}$$

Casing Thickness Ratio (rc):

Calculate Nominal Shear per Fastener Based on Bearing for $rc \leq 1.0$ (Pns_{case}):

$$Pns1 := 4.2 \cdot \sqrt{t1^3 \cdot \phi_{clip,screw} \cdot Fu1_{case}}$$

$$Pns2 := 2.7 \cdot t1 \cdot \phi_{clip,screw} \cdot Fu1_{case}$$

$$Pns3 := 2.7 \cdot t2 \cdot \phi_{clip,screw} \cdot Fu2_{case}$$

$$Pns_{case} := \text{if}(Pns1 \leq Pns2, \text{if}(Pns1 \leq Pns3, Pns1, Pns3), \text{if}(Pns2 \leq Pns3, Pns2, Pns3))$$

$$Pns_{case} = 1.452 \cdot kip$$

Calculate Nominal Shear per Fastener Based on Shear Capacity of Screw (Pns_{screw}):

$$Pns_{screw} := Fu_{tens} \cdot A_v$$

$$Pns_{screw} = 1.242 \cdot kip$$

Calculate Allowable Shear per Fastener (Pas):

$$\Omega_{brg} := 3.0 \quad Pas1 := \frac{Pns_{case}}{\Omega_{brg}}$$

$$\Omega_{screw} := \frac{\sqrt{3}}{0.40} \quad Pas2 := \frac{Pns_{screw}}{\Omega_{screw}}$$

$$Pas := \text{if}(Pas1 \leq Pas2, Pas1, Pas2)$$

Calculate Total No. of Screws Required (No_{screws}):

$$No_{clip,screw} := \text{ceil} \left(\frac{F_{up1}}{Pas} \right)$$

$$No_{clip,screw} = 2$$

$$\phi_{clip,screw} := 0.25 \cdot in$$

$$unc := 14$$

$$A_v := 0.0207 \cdot in^2$$

$$t1 := 0.0625 \cdot in$$

$$t2 := 0.0478 \cdot in$$

$$rc = 0.8$$

$$Pns1 = 1.477 \cdot kip$$

$$Pns2 = 1.898 \cdot kip$$

$$Pns3 = 1.898 \cdot kip$$

$$Pns_{screw} = 1.242 \cdot kip$$

$$Pas1 = 0.484 \cdot kip$$

$$Pas2 = 0.287 \cdot kip$$

$$Pas = 0.287 \cdot kip$$

$$No_{clip,screw} = 2$$

Concrete Anchor Design

Anchor Type: Large Diameter Tapcon

Anchor_Conc_Type := "Large Diameter Tapcon"

Anchor Diameter:

$$\phi_{anchor,conc} := 0.375 \cdot in$$

Number of Anchors Per Clip

$$No_{conc,anchor} := 1$$

Anchor Edge Distance:

$$Anchor_{edge} := 2.0 \cdot in$$

Anchor Spacing:

$$Anchor_{spa} := 3.0 \cdot in$$

Minimum Edge Distance to Attain Max Ultimate Load

$$Min_{edge} := 2 \cdot in$$

Absolute Minimum Edge Distance:

$$AbsMin_{edge} := 1.75 \cdot in$$

Minimum Anchor Spacing to Attain Max Ultimate Load

$$Min_{spa} := 6 \cdot in$$

Absolute Minimum Anchor Spacing:

$$AbsMin_{spa} := 3 \cdot in$$

Edge Distance Reduction Factor

$$Edge_{factor} := 0.7$$

Spacing Edge Factor

$$Spa_{factor} := 0.44$$

Concrete Compressive Strength:

$$f_c := 2000 \cdot psi$$

Enter 0 for Normal Concrete and 1 for Lightweight Concrete:

$$LW_{conc} := 0$$

Ultimate Tension Value

$$T_{ULT} := 1336 \cdot lbf$$

Ultimate Shear Value

$$V_{ULT} := 2108 \cdot lbf$$

Calculate Capacity Reduction Factors

$$\Omega_{edge} := \begin{cases} 0 & \text{if } Anchor_{edge} < AbsMin_{edge} \\ 1.0 & \text{if } Anchor_{edge} \geq Min_{edge} \end{cases}$$

$$\Omega_{spacing} := \begin{cases} 1.0 & \text{if } Anchor_{spa} < AbsMin_{spa} \\ 1.0 & \text{if } Anchor_{spa} \geq Min_{spa} \end{cases}$$

$$\Omega_{edge} := \begin{cases} 1.00 & \\ \left[Edge_{factor} + \frac{(1 - Edge_{factor})}{Min_{edge} - AbsMin_{edge}} (Anchor_{edge} - AbsMin_{edge}) \right] & \text{if } Anchor_{edge} < Min_{edge} \end{cases}$$

$$\Omega_{edge} = 1.00$$

$$\Omega_{spacing} := \begin{cases} 0 & \text{if } Anchor_{spa} < AbsMin_{spa} \\ 1.0 & \text{if } Anchor_{spa} \geq Min_{spa} \end{cases}$$

$$\Omega_{conc} := \text{if}(LW_{conc} > 0, 0.75, 1.0) = 1.00$$

$$T_{ALLOW} := T_{ULT} \cdot \Omega_{edge} \cdot \Omega_{spacing} \cdot \Omega_{conc} \cdot 0.6 = 801.6 \cdot lbf$$

$$V_{ALLOW} := V_{ULT} \cdot \Omega_{edge} \cdot \Omega_{spacing} \cdot \Omega_{conc} \cdot 0.6 = 1264.8 \cdot lbf$$

$$\Omega_{spacing} = 1.00$$

$$\Omega_{conc} := \text{if}(LW_{conc} > 0, 0.75, 1.0) = 1.00$$

$$T_{ALLOW} := T_{ULT} \cdot \Omega_{edge} \cdot \Omega_{spacing} \cdot \Omega_{conc} \cdot 0.6 = 801.6 \cdot lbf$$

$$V_{ALLOW} := V_{ULT} \cdot \Omega_{edge} \cdot \Omega_{spacing} \cdot \Omega_{conc} \cdot 0.6 = 1264.8 \cdot lbf$$

Concrete Anchor Design (Con't)

Tension Per Anchor:

$$T_{des} := \frac{F_{upl}}{No_{conc.anchor}} = 510.3 \text{ lbf}$$

Shear Per Anchor:

$$V_{des} := \frac{F_h}{No_{clips} \cdot 2} = 301.2 \text{ lbf}$$

Demand Capacity Ratio

$$DC_{anchor} := \frac{T_{des}}{T_{ALLOW}} + \frac{V_{des}}{V_{ALLOW}} = 0.9$$

$$Check_{anchor} := \text{if}(DC_{anchor} \leq 1.0, \text{"OK"}, \text{"NG"}) = \text{"OK"}$$

Steel Anchor Design

Anchor Material: ASTM A593 Stainless Steel or Greater

Anchor_Steel_Type := "Stainless Steel"

$\phi_{anchor.steel} := 0.375 \text{ in}$

$No_{steel.anchor} := 1$

$F_u := 65 \text{ ksi}$

$F_t := 0.33 \cdot F_u = 21.5 \text{ ksi}$

$F_v := 0.17 \cdot F_u = 11.1 \text{ ksi}$

Ultimate Tensile Strength of Bolt Material

Minimum Tensile Strength of Bolt Material

Minimum Shear Strength of Bolt Material

Bolt Area

$$A_{bolt} := \frac{\pi \cdot \phi_{anchor.steel}^2}{4} = 0.11 \text{ in}^2$$

$T_{ALLOW} := A_{bolt} \cdot F_t = 2.4 \text{ kip}$

$V_{ALLOW} := A_{bolt} \cdot F_v = 1.2 \text{ kip}$

Tension Per Anchor:

$$T_{des} := \frac{F_{upl}}{No_{steel.anchor}} = 510.3 \text{ lbf}$$

Shear Per Anchor:

$$V_{des} := \frac{F_h}{No_{clips} \cdot 2} = 301.2 \text{ lbf}$$

Demand Capacity Ratio

$$DC_{anchor} := \frac{T_{des}}{T_{ALLOW}} + \frac{V_{des}}{V_{ALLOW}} = 0.5$$

$$Check_{anchor} := \text{if}(DC_{anchor} \leq 1.0, \text{"OK"}, \text{"NG"}) = \text{"OK"}$$

Wood Anchor Design

Anchor Type: Lag Screw

Anchor Diameter: $\phi_{\text{anchor,wood}} := 0.375 \text{ in}$
 Number of Anchors Per Clip: $N_{\text{wood,anchor}} := 1$
 Specific Gravity of Wood Species: $G := 0.42$
 Lateral Load Coefficient (Table 7-4): $K := 3820 \text{ (in-lbf)}$
 Thread Embedment: $t_{\text{emb}} := 1.5 \text{ (in)}$

$$D := \frac{\phi_{\text{anchor,wood}}}{\text{in}} = 0.375$$

$$T_{\text{ALLOW}} := 8100 \cdot G^{1.5} \cdot D^{0.75} \cdot t_{\text{emb}} \cdot \text{lbf} = 1584.8 \text{ lbf}$$

$$V_{\text{ALLOW}} := 1.6K \cdot D^2 \cdot \text{lbf} = 859.5 \text{ lbf}$$

Tension Per Anchor:

$$T_{\text{des}} := \frac{F_{\text{upl}}}{N_{\text{wood,anchor}}} = 510.3 \text{ lbf}$$

Shear Per Anchor:

$$V_{\text{des}} := \frac{F_{\text{h}}}{N_{\text{clips} \cdot 2}} = 301.2 \text{ lbf}$$

Demand Capacity Ratio

$$DC_{\text{anchor}} := \frac{T_{\text{des}}}{T_{\text{ALLOW}}} + \frac{V_{\text{des}}}{V_{\text{ALLOW}}} = 0.7$$

Check_anchor := if(DC_anchor ≤ 1.0, "OK", "NG") = "OK"

Summary of Results:

DesignWindSpeed := V_mph = 186-mph MountingHeight := H = 30-ft ExposureCategory := ExpCat = "D"

Number of Panel Fasteners Provided By Manufacturer: Number of Panel Fasteners Required By Analysis:

Panel No. 1: No_screws_std1 := 16 Panel No. 1: No_screws_1 = 5

Panel No. 2: No_screws_std2 := 3 Panel No. 2: No_screws_2 = 3

Panel Fastening Check:

check_panel1 := if(No_screws_std1 ≥ No_screws_1, "OK", "NG") = "OK"

check_panel2 := if(No_screws_std2 ≥ No_screws_2, "OK", "NG") = "OK"

Check_range = "OK"

Equipment Tie Down to Tie Down Clip:

Total_No_TieDown_Clips := NoClips_2 = 4

Dia_Metal_Fasteners := $\phi_{\text{clip,screw}} = 0.25 \text{ in}$

No_Metal_Fasteners_Per_Clip := No_clip_screw = 2

Equipment Tie Down to Host Structure:

Concrete Substrate

Min_Concrete_Strength := $f_c = 2000 \text{ psi}$

Anchor_Conc_Type = "Large Diameter Tapcon"

$\phi_{\text{anchor,conc}} = 0.375 \text{ in}$

Number_Conc_Anchors_Per_Clip := No_conc_anchor = 1

Min_Anchor_Embedment := Anchor_Conc_Emb = 2-in

Steel Substrate

Min_Ultimate_Tensile_Strength := $F_u = 65000 \text{ psi}$

Anchor_Steel_Type = "Stainless Steel"

$\phi_{\text{anchor,steel}} = 0.375 \text{ in}$

Number_Steel_Anchors_Per_Clip := No_steel_anchor = 1

Wood Substrate

Specific_Gravity_Wood := $G = 0.42$

Anchor_Wood_Type = "Lag Screw"

$\phi_{\text{anchor,wood}} = 0.375 \text{ in}$

Number_Wood_Anchors_Per_Clip := No_wood_anchor = 1

Min_Anchor_Embedment := $t_{\text{emb,in}} = 1.5 \text{ in}$

Appendix



Product Catalog

Split System Air Conditioners Odyssey™

Cooling Condenser — 6 to 25 Tons — 60 Hz
Air Handler — 5 to 25 Tons — 60 Hz



September 2019

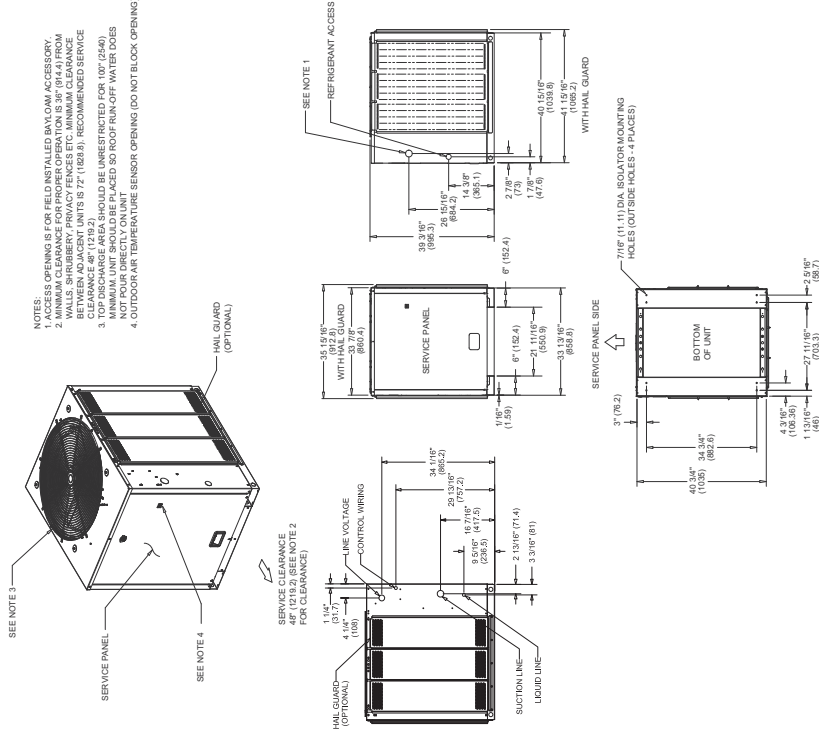
SS-PRC028T-EN



Dimensional Data

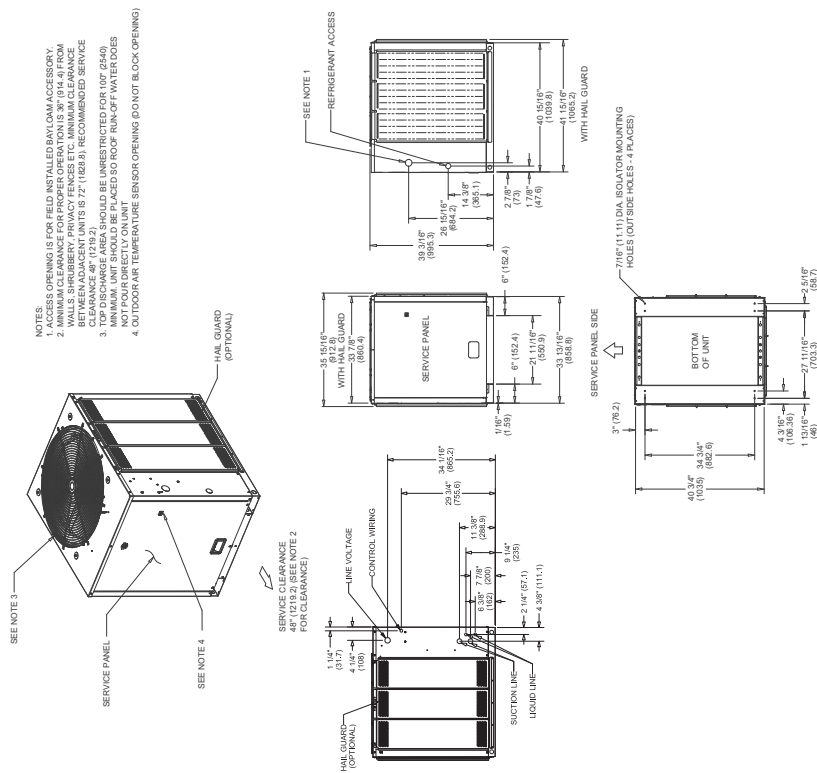
Cooling Condenser

Figure 27. 6-7.5 ton condensing unit, single compressor, microchannel



TRANE
Dimensional Data

Figure 28. 6. 7.5 ton condensing unit, dual compressor, microchannel



Weights
Cooling Condenser

Table 90. TTA unit and corner weights — lbs (60 Hz)

Tons	Model No.	Shipping Max (lbs)	Net Max (lbs)	Corner Weights			
				1	2	3	4
6	TTA0724*A	324	240	68	72	35	65
	TTA0724*D	342	275	86	82	54	53
	TTA0904*A	342	294	80	96	51	67
7.5	TTA0904*D	380	311	95	91	63	62
	TTA1204*A	415	339	113	89	60	77
	TTA1204*D	436	379	111	130	72	66
10	TTA1204*C	473	416	109	168	87	52
	TTA1504*D	504	447	117	155	76	99
	TTA1804*D	806	691	135	255	101	200
15	TTA1804*C	806	691	135	255	101	200
	TTA2404*D	872	706	155	240	122	190
	TTA2404*C	879	761	239	217	149	156
25	TTA3004*C	1013	853	286	239	216	111

Figure 52. TTA072, 090, 120, 150

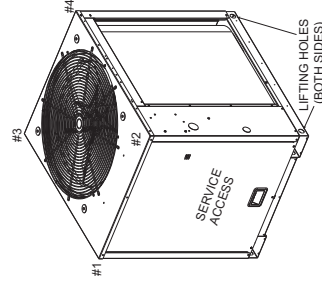
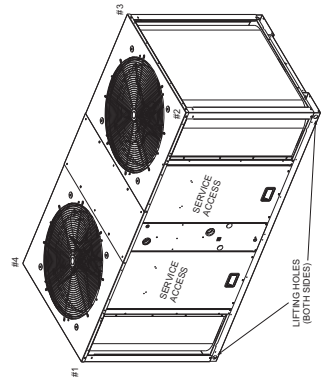


Figure 53. TTA180, 240, 300



Certificate of Product Ratings

AHRI Certified Reference Number : 209921869 Date : 04-17-2024 Model Status : Active

Brand Name : TRANE

Model Number : TTA0724(3,4,W)AA***BS*

Indoor Unit Model Number : TWE0904(3,4,W)AA***BD*

Series Name : ODYSSEY

AHRI Type : RCU-A-CB

Refrigerant Type : R-410A

Hertz : 60

Sold In? : USA, Canada

Rated as follows in accordance with the following test procedures and subject to verification of rating accuracy by AHRI-sponsored, independent, third-party testing:

- AHRI Standard 340/360-2022, Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment
- AHRI Standard 365-2009, Commercial and Industrial Unitary Air-Conditioning Condensing Units

Cooling Capacity 95F/Cooling Capacity 95F at 230v : 76000/76000

EER 95F/EER 95F at 230v : 11.50/11.50

IEER/IEER at 230v : 14.8/14.8

The following data is for reference only and is not certified by AHRI

Full Load Indoor Coil Air Quantity (scfm) : 2400

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†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.
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CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

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we make life better™

CERTIFICATE NO.:

133578366527563597

Air System Sizing Summary for AHU-1 Club 19 - Pro Shop

Project Name: Club 19
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:46PM

Air System Information

Air System Name: **AHU-1 Club 19 - Pro Shop**
 Air System Type: **Single Zone CAV**

Number of zones: **1**
 Floor Area: **1839.6** sqft
 Location: **Miami, Florida**

Sizing Calculation Information

Calculation Months: **Jan to Dec**

Calculation method: **Transfer Function Method**

Central Cooling Coil Sizing Data

Total coil load: **5.8** Tons
 Total coil load: **69.5** MBH
 Sensible coil load: **59.1** MBH
 Coil airflow: **2620** CFM
 Sensible heat ratio: **0.851**
 Area per unit load: **317.8** sqft/Ton
 Load per unit area: **37.8** BTU/(hr-sqft)

Load occurs at: **Oct 1400**
 OA DB / WB: **87.7/76.9** F
 Entering DB / WB: **76.0/63.2** F
 Leaving DB / WB: **55.1/53.9** F
 Coil ADP: **52.8** F
 Bypass Factor: **0.100**
 Resulting RH: **.48** %
 Design supply temp: **55.0** F

Central Heating Coil Sizing Data

Max coil load: **27.1** MBH
 Coil airflow: **2620** CFM
 Load per unit area: **14.7** BTU/(hr-sqft)

Load occurs at: **Des Htg**
 Ent DB / Lvg DB: **68.8/78.4** F

Supply Fan Sizing Data

Actual max airflow: **2620** CFM
 Standard airflow: **2618** CFM
 Actual max airflow per unit area: **1.42** CFM/sqft

Fan motor BHP: **0.76** BHP
 Fan motor kW: **0.57** kW
 Fan static: **1.00** in wg

Outdoor Ventilation Air Data

Design airflow: **120** CFM
 Airflow per unit floor area: **0.07** CFM/sqft

Airflow per person: **20.00** CFM/person

Space Sizing Data

Space Name	Maximum Cooling Sensible MBH	Design Airflow CFM	Time of Peak Load	Maximum Heating Load MBH	Space Floor Area sqft	Space CFM/sqft
AHU-1 Club 19 -Offices	56.6	2620	Oct 1400	26.3	1839.6	1.42

System Design Load Summary for AHU-1 Club 19 -Offices

Project Name: Club 19
Prepared by: Florida Engineering Services, Inc.

12/09/2023
02:46PM

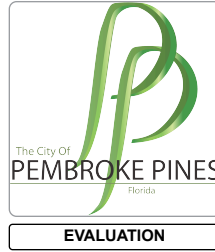
	DESIGN COOLING			DESIGN HEATING		
	Oct 1400			Design Heating Day		
	OA DB / WB 87.7 F / 76.9 F			OA DB / WB 46 F / 38.6 F		
Zone Loads based on TFM	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	679 sqft	33826	-	679 sqft	-	-
Wall Transmission	522 sqft	700	-	522 sqft	1403	-
Roof Transmission	1839 sqft	2808	-	1839 sqft	3972	-
Window Transmission	679 sqft	7549	-	679 sqft	17110	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	24 sqft	916	-	24 sqft	603	-
Floor Transmission	1839 sqft	0	-	1839 sqft	0	-
Partitions/Ceilings	330 sqft	0	-	330 sqft	0	-
Overhead Lighting	1968 W	6716	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	6	1680	1620	0	0	0
Infiltration	-	1339	3932	-	3173	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>>Total Zone Loads	-	56557	5552	-	26262	1
Thermostat and Pulldown Adjustment	-	-982	0	-	-302	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	120 CFM	1577	4818	120 CFM	3098	0
Supply Fan Load	2620 CFM	1942	-	2620 CFM	-1942	-
>> Total System Loads	-	59093	10370	-	27116	1
Central Cooling Coil	-	59093	10376	-	0	0
Central Heating Coil	-	0	-	-	27116	-
>> Total Coil Loads	-	59093	10376	-	27116	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for AHU-1 Club 19 -Offices

Project Name: Club 19
 Prepared by: Florida Engineering Services, Inc.

12/09/2023
 02:46PM

Zone Loads based on TFM	DESIGN COOLING			DESIGN HEATING		
	Jul 1500			Design Heating Day		
	OA DB / WB 92 F / 79 F			OA DB / WB 46 F / 38.6 F		
	Thermostat Setpoint 75.0 F			Thermostat Setpoint 70.0 F		
	Details	Sensible BTU/hr	Latent BTU/hr	Details	Sensible BTU/hr	Latent BTU/hr
Window and Skylight Solar Loads	679 sqft	21826	-	679 sqft	-	-
Wall Transmission	522 sqft	1078	-	522 sqft	1403	-
Roof Transmission	1839 sqft	4569	-	1839 sqft	3972	-
Window Transmission	679 sqft	10663	-	679 sqft	17110	-
Skylight Transmission	0 sqft	0	-	0 sqft	0	-
Door Loads	24 sqft	1174	-	24 sqft	603	-
Floor Transmission	1839 sqft	0	-	1839 sqft	0	-
Partitions/Ceilings	330 sqft	0	-	330 sqft	0	-
Overhead Lighting	1968 W	6716	-	0 W	0	-
Electric Equipment	300 W	1024	-	0 W	0	-
People	6	1680	1620	0	0	0
Infiltration	-	1798	3996	-	3173	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	50528	5616	-	26262	1



Pembroke Pines Parks - HVAC Replacement Re-Bid

📄 Invitation For Bid

🏛️ Recreation & Cultural Arts

📞 03167, 91450, 96702

Project ID: RE-24-07

Release Date: Wednesday, August 7, 2024

Due Date: Tuesday, September 10, 2024 2:00pm

📅 Posted 📅 Thursday, August 8, 2024 4:04pm

📧 Bid Unsealed Tuesday, September 10, 2024 2:35pm by Debra Rogers

📧 Pricing Unsealed Tuesday, September 10, 2024 2:35pm by Debra Rogers

All dates & times in Eastern Time

1. Introduction

1.1. Summary

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, to replace HVAC systems at several Pembroke Pines parks with Trane HVAC systems, in accordance with the terms, conditions, and specifications contained in this solicitation.

1.2. Timeline

Release Project Date:	August 7, 2024
Pre-Proposal Meeting (Mandatory):	August 20, 2024, 10:00am Rose Price Park, located at 901 NW 208th Avenue, Pembroke Pines, FL 33029
Question Submission Deadline:	August 26, 2024, 11:30pm
Proposal Submission Deadline:	September 10, 2024, 2:00pm

1.3. Procurement Contact

Phibe Wallace

Procurement Specialist

8300 South Palm Drive

Pembroke Pines, FL 33026

Email: pwallace@ppines.com

Phone: (954) 743-1434

2. Project Details

2.1. Important Instructions for Electronic Submittals

The City of Pembroke Pines is accepting electronic bid submissions. Bidders shall create a FREE account with OpenGov Procurement by signing up at <https://procurement.opengov.com/signup>. Once you have completed account registration, browse back to this page, click on "Draft Response", and follow the instructions to submit the electronic bid.

2.2. Scope of Work or Project Details

Please see the Attachments section for specifications and attachments.

3. Pricing Proposal

Primary Responses

Line Item	Description	Unit of Measure	Unit Cost	No Bid
1.	Rose Price Park HVAC Replacement Project	Lump Sum		
2.	Town Gate Park HVAC Replacement Project	Lump Sum		
3.	Club 19 HVAC Replacement Project	Lump Sum		
4.	Golf Pro Shop HVAC Replacement Project	Lump Sum		
5.	Cost for Payment & Performance Bond	Lump Sum		

Additional Responses

Line Item	Description	Unit of Measure	Unit Cost	No Bid
1.	Rose Price Park HVAC Replacement Project	Lump Sum		
2.	Town Gate Park HVAC Replacement Project	Lump Sum		
3.	Club 19 HVAC Replacement Project	Lump Sum		
4.	Golf Pro Shop HVAC Replacement Project	Lump Sum		
5.	Cost for Payment & Performance Bond	Lump Sum		

4. Submittal Documents

1. I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.*

Please confirm

*Response required

2. Project Documents

2.1. Proposers Background Information Form*

Please download the below documents, complete, and upload.

[Proposers_Background_Information_Form.xlsx](#)

*Response required

2.2. References Form*

Please download the below documents, complete, and upload.

[References_Form.pdf](#)

*Response required

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

3. Standard Documents

The following documents are standard documents that the City generally requires for every solicitation. As a result, we recommend vendors to keep these documents updated and readily available so that they can be easily uploaded for each project that the vendor would like to participate in. In the event that the City does not have one of the forms or documents listed below for your company, the City may reach out to your company after the bid has closed to obtain the document(s).

3.1. Non-Collusive Affidavit*

Please download the below documents, complete, and upload.

[Non-Collusive_Affidavit.pdf](#)

*Response required

3.2. Sworn Statement on Public Entity Crimes*

Please download the below documents, complete, and upload.

[Sworn_Statement_on_Public_Entity_Crimes.pdf](#)

*Response required

3.3. Equal Benefits Certification Form*

Please download the below documents, complete, and upload.

[Equal_Benefits_Certification_Form.pdf](#)

*Response required

3.4. Vendor Drug-Free Workplace Certification Form*

Please download the below documents, complete, and upload.

[Vendor_Drug-Free_Workplace_Certification_Form.pdf](#)

*Response required

3.5. Scrutinized Company Certification*

Please download the below documents, complete, and upload.

[Scrutinized_Company_Certification.pdf](#)

*Response required

3.6. E-Verify System Certification Statement*

Please download the below documents, complete, and upload.

[E-Verify_System_Certification_Statement.pdf](#)

*Response required

3.7. Veteran Owned Small Business (VOSB) Preference Certification*

Please download the below documents, complete, and upload.

[Veteran_Owned_Small_Business_\(VOSB\)_Preference_Certification.pdf](#)

*Response required

3.8. Determination Letter from the United States Department of Veteran Affairs Center

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).

3.9. Local Vendor Preference Certification*

Please download the below documents, complete, and upload.

[Local_Vendor_Preference_Certification.pdf](#)

*Response required

3.10. Local Business Tax Receipts**3.11. Anti-Human Trafficking Affidavit***

Please download the below documents, complete, and upload.

[Anti-Human_Trafficking_Affidavit.pdf](#)

*Response required

4. Optional Documentation**4.1. Trade Secrets**

- a. The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.
- b. Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.
- c. EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE OPENGOV WEBSITE AS A SEPARATE ATTACHMENT, IN THIS SECTION, CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.
- d. The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

4.2. Financial Statements

- a. The City is not requesting the vendor to submit any financial statements for this project and prefers if the vendor does not submit financial statements. In addition, if the City needs a copy of the vendor's financial statements, the City can contact the vendor after the bid due date to request those documents. However, if the vendor does submit the financial statements, they should be uploaded in this section.
- b. Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

4.3. Alternatives

- a. If you are submitting an alternative product, please upload any related information in this section (such as specification sheets, etc.).
- b. In addition, pursuant to **Section 3.7 "Brand Names,"** if and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Proposers shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the vendor's responsibility to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

4.4. Additional Information

Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.

4.5. Professional Licenses**5. Vendor Classification****5.1. Is your firm a Minority-Owned Business Enterprise (MBE)?***

Select all that apply

- No, not a Minority Business Enterprise
- Yes, an African-American MBE
- Yes, an Asian-American MBE

- Yes, a Hispanic-American MBE
- Yes, a Native-American MBE
- Yes, other option not listed above

*Response required

5.2. Is your firm a Woman-Owned Business Enterprise (WBE)?*

- Yes
- No

*Response required

5.3. Is your firm a HubZone Business / Labor Surplus Area Firm?*

- Yes
- No

*Response required

5.4. If you selected "yes" to any of the above questions, please provide current certificates from the agency(ies) that certified your vendor classification.

6. Federal Documents


6.1. Certification Regarding Lobbying; Debarment, Suspension and Other Responsibility Matters for Expenditure of Federal Funds

A. Lobbying:

- a. As required by 7 CFR Part 3018, for persons entering into a contract, grant or cooperative agreement over **\$100,000** involving the expenditure of Federal funds, the Contractor must complete the **Certification Regarding Lobbying**.
- b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress, in connection with this Federal contract, grant, loan, or cooperative agreement, the Contractor shall also complete and submit the **Standard Form - LLL, "Disclosure Form to Report Lobbying,"** in accordance with its instructions.


B. Debarment, Suspension and Other Responsibility Matters:

- a. Where the Contractor is unable to certify to any of the statements in the certification for **Debarment, Suspension and Other Responsibility Matters**, he or she shall **provide an explanation**.


 [Federal Certification for Lobbying and Debarment and Form LLL.pdf](#)


5. Attachments


Main Documents

 [IFB RE-24-07 Pembroke Plnes Parks - HVAC Replacement Re-Bid](#)


Supporting Attachments


 [A - Sample Insurance Certificate](#)

 [B - Standard Release of Lien](#)

 [C - Specimen Contract - Construction Agreement](#)

 [D - Rose Price Park - Plans / Drawings](#)

 [E - Town Gate Park - Plans / Drawings](#)

 [F - Club 19 - Plans / Drawings](#)

 [G - Golf Pro Shop - Plans / Drawings](#)



QUESTION & ANSWER REPORT
IFB No. RE-24-07
Pembroke Pines Parks - HVAC Replacement Re-Bid

RESPONSE DEADLINE: September 10, 2024 at 2:00 pm

Approved, Unanswered Questions

Approved, Answers Provided

1. Equipment Manufacturer

Aug 12, 2024 8:26 AM

Question: Is Trane the only acceptable manufacturer or will others be equally considered as well?

Aug 12, 2024 8:26 AM

Answered by Phibe Wallace: Trane is the preferred brand. Contractor can submit a bid with Trane equipment and an alternate bid with a comparable brand.

Aug 12, 2024 8:32 AM

2. Purchasing Cooperatives

Aug 12, 2024 9:56 AM

Question: Is the City of Pembroke Pines interested in using any purchasing cooperatives such as Sourcewell, Omnia, or any others that the city may already be partnered with?

Aug 12, 2024 9:56 AM

Answered by Phibe Wallace: Vendors can submit bids utilizing cooperative pricing. However, the City will still be following the sealed competitive bidding procurement procedure.

Aug 12, 2024 10:12 AM

3. qualifications

QUESTION & ANSWER REPORT

IFB No. RE-24-07

Pembroke Pines Parks - HVAC Replacement Re-Bid

Aug 13, 2024 8:56 PM

Question: In the main document it states that you need to be a general contractor to participate in this project. I would like to know if, since this is a project to replace AC units, an HVAC-A contractor would allow it?

Aug 13, 2024 8:56 PM

Answered by Phibe Wallace: Yes, HVAC-A contractors are allowed to submit a bid but need to consider that they are responsible for the management and completion of the full scope of work outlined in the bid package.

Aug 14, 2024 9:28 AM

4. HVAC REPLACEMENT

Aug 14, 2024 9:34 AM

Question: In the scope of work, will the Hvac ducts be replaced aswell or just the Hvac unit?

Aug 14, 2024 9:34 AM

Answered by Emmanuel Acosta: The City is looking to replace the HVAC units but contractors shall replace any ductwork as instructed on the bid documents.

Aug 29, 2024 1:42 PM

5. Weekday vs Weekend

Aug 14, 2024 10:07 AM

Question: Within the IFB, it states "The work must be performed Monday through Friday from 8am to 5pm or as approved by the Project Manager" but also states "Contractor should plan for possible weekend work, as necessary, due to scheduling complications with facility." Should the estimates be based on M-F 8am-5pm and if weekend work is required, the additional cost for OT would be brought up as necessary during the planning phase?

Aug 14, 2024 10:07 AM

Answered by Emmanuel Acosta: As stated in section 1.3.2 General Requirements "The work must be performed Monday through Friday from 8am to 5pm or as approved by the Project Manager. Contractor should plan for possible weekend work, as necessary, due to scheduling complications with facility." Contractor shall account for work to be completed during both weekdays and weekends. Contractors are to bid as a lump sum price and will not be compensated for overtime costs.

Aug 29, 2024 1:42 PM

6. Fire Sprinklers at Club 19

Aug 26, 2024 4:58 PM

QUESTION & ANSWER REPORT

IFB No. RE-24-07

Pembroke Pines Parks - HVAC Replacement Re-Bid

Question: Can information on the fire sprinkler system at Club 19 be provided?

Aug 26, 2024 4:58 PM

Answered by Emmanuel Acosta: The company that services the fire sprinklers at Club 19 is Sentinel Fire Protection and Service Company.

Aug 29, 2024 4:04 PM



City of Pembroke Pines

Procurement

Mark Gomes, Procurement Director
601 City Center Way, Pembroke Pines, FL 33025
(954) 431-4884

ADDENDA & NOTICES

IFB No. RE-24-07

Pembroke Pines Parks - HVAC Replacement Re-Bid

RESPONSE DEADLINE: September 10, 2024 at 2:00 pm

ADDENDA ISSUED:

No Addenda issued.

NOTICES ISSUED:

Notice #1

Aug 21, 2024 5:10 PM

Notice of Pre-Bid Meeting Visit 8.20.24

Attachments:

· [IFB #RE-24-07 Pembroke Pines Parks - HVAC Replacement Site Visits Sign-In Sheet 8.20.24](#)

Notice #2

Aug 26, 2024 10:29 AM

Notice of Pre-Bid Meeting 8.22.24

Notice #3

Aug 29, 2024 4:03 PM

Club 19 HVAC Unit 1

Attachments:

· [Unit 1 Pictures](#)

Notice #4

Aug 29, 2024 4:04 PM

Club 19 HVAC Unit 2

Attachments:

· [Unit 2 Pictures](#)

IFB # RE-24-07 Pembroke Pines Park - HVAC Replacement Re-bid

Date: 8/20/2024 Meeting Location: Rose Price Park, located at 901 NW 208th Avenue, Pembroke Pines, FL 33029 @ 10AM

PRE-BID ATTENDANCE SHEET

	Company Name:	Address:	Representative Printed Name:	Signature	E-mail:	Phone Number:
1)	Comerics	5440 NW 33rd Ct Ft Lauderdale	Mario Bernudez		Mario.bernudez@comerics.com	305-978-4232
2)	BAM ADVENTURES, INC	5100 NW 107th St MIAMI LAKES	Cecilia M. BAWAU		ceciawattei@bawattentriessplus.com	904-682-3325
3)	INTEG MIA INC	1001 NW 50th St, Suite 107 Sunrise FL 33351			caulvogal@integca.com	954 338 9889
4)	Correct Hearing & Air	5014 US 1 N Palmto, Fl. 34221			awildasid@conec-A.com	941-720-1535
5)	Air Mechanical & Svc Corp.	3153 Ave A, Big Pine, FL.	Blaine Byers		blaine@amsc0-ac.com	941-234-2197
6)	LEGO CONSTRUCTION	1011 SUNNYBROOK RD, MIAMI	SUYASH BARKHAL		sbarkhal@lego.c.com	352-871-3135
7)	Green Alliance, Inc	14916 SW 20th Terrace Davie FL	Ramona Sghre		info@greenalliancecorp.com	786-315-7023
8)	Advanced Air Systems	2100 NW 81st Ave Ft. Lauderdale, FL 33311	Virat Borkh		Viratb@advancedair.com	219-663-1696

WAIVER AND RELEASE OF LIABILITY

As a participant and by signing this PRE-BID ATTENDANCE SHEET, I hereby waive, release, and indemnify the City of Pembroke Pines, its officers, agents, employees, commission, insurers and volunteers (collectively, the "City") from any and all claims, liability, injury, causes of action, suits, demands and/or damage of whatever kind, (collectively, "claims") made by myself or any party on my behalf whether caused in whole or in part by any negligence of the City, or otherwise, in connection with my participation in the above-referenced program/activity. I hereby further hold the City harmless from any and all claims that may be incurred in connection with my participation in the above-referenced site visit for the above mentioned project. By signing this form and as a participant in this PRE-BID MEETING / SITE VISIT, I affirm that I am physically able to participate in the City of Pembroke Pines's PRE-BID MEETING / SITE VISIT. By signing this form I understand and recognize there are risks and hazards associated with said activity and that I am waiving and releasing the claims described above. This Waiver and Release shall be binding upon myself, and my respective successors, heirs, assigns, executors, administrators, spouse and next of kin. I affirm that I am aware of the current recommendations from the CDC, the State of Florida, Broward County, and the City related to Covid-19 and agree to abide by those recommendations as applicable to any activity related to this site visit.

IFB # RE-24-07 Pembroke Pines Park - HVAC Replacement Re-bid

Date: 8/20/2024 Meeting Location: Rose Price Park, located at 901 NW 208th Avenue, Pembroke Pines, FL 33029 @ 10AM

PRE-BID ATTENDANCE SHEET

1) ✓	Company Name: <u>CARRISON Mechanical</u> Address: <u>20851 John St Ste 108</u>	Representative Printed Name: <u>Tim Yoern</u> Signature: <u>[Signature]</u>	E-mail: <u>tim.yoern@carriison-mechanical.com</u> Phone Number: <u>954-541-7000</u>
2)	Company Name: <u>Smyker AC</u> Address: <u>18550 NW 39th Ave Coral Springs</u>	Representative Printed Name: <u>Joseph Mulkowski</u> Signature: <u>[Signature]</u>	E-mail: <u>joseph@jmulkowski.com</u> Phone Number: <u>954-552-0449</u>
3) ✓	Company Name: <u>Cooling Genius</u> Address: <u>15504 SW 110 Terrace</u>	Representative Printed Name: <u>Daver Cruz</u> Signature: <u>[Signature]</u>	E-mail: <u>DCRUZ2@coolinggenius.com</u> Phone Number: <u>786-309-9194</u>
4) ✓	Company Name: <u>Nov Interactive</u> Address: _____	Representative Printed Name: <u>Angel Respeto</u> Signature: <u>[Signature]</u>	E-mail: <u>angel@novinteractives.com</u> Phone Number: <u>786-504-4223</u>
5) ✓	Company Name: <u>Rom Quality Group</u> Address: <u>2028 SW 126th Ave</u>	Representative Printed Name: <u>Roberto Ariles</u> Signature: <u>[Signature]</u>	E-mail: <u>romqualitygroup@gmail.com</u> Phone Number: <u>786-539-9000</u>
6) ✓	Company Name: <u>Quantum Construction</u> Address: <u>2281 Vista Parkway Unit K5</u>	Representative Printed Name: <u>Daren Gordon</u> Signature: <u>[Signature]</u>	E-mail: <u>daren@quantumconstruct.com</u> Phone Number: <u>786-340-4224</u>
7) ✓	Company Name: <u>Maric's Painting and Services</u> Address: <u>911 NW 209 Ave Suite 104</u>	Representative Printed Name: <u>JASON VERA</u> Signature: <u>[Signature]</u>	E-mail: <u>Info@maricpaint.com</u> Phone Number: <u>954-515-6198</u>
8) ✓	Company Name: <u>Allcom Mechanical Services</u> Address: <u>8868 NW 113 St Hialeah Gardens FL 33018</u>	Representative Printed Name: <u>LEWIS BOYD</u> Signature: <u>[Signature]</u>	E-mail: <u>allcommechanical@gmail.com</u> Phone Number: <u>786-439-4046</u>

WAIVER AND RELEASE OF LIABILITY

As a participant and by signing this PRE-BID ATTENDANCE SHEET, I hereby waive, release, and indemnify the City of Pembroke Pines, its officers, agents, employees, commission, insurers and volunteers (collectively, the "City") from any and all claims, liability, injury, causes of action, suits, demands and/or damage of whatever kind, (collectively, "Claims") made by myself or any party on my behalf whether caused in whole or in part by any negligence of the City, or otherwise, in connection with my participation in the above-referenced program/activity. I hereby further hold the City harmless from any and all Claims that may be incurred in connection with my participation in the above-referenced site visit for the above mentioned project. By signing this form and as a participant in this PRE-BID MEETING / SITE VISIT, I affirm that I am physically able to participate in the City of Pembroke Pines' s PRE-BID MEETING / SITE VISIT. By signing this form I affirm that I understand and recognize there are risks and hazards associated with said activity and that I am waiving and releasing the Claims described above. This Waiver and Release shall be binding upon myself, and my respective successors, heirs, assigns, executors, administrators, spouse and next of kin. I affirm that I am aware of the current recommendations from the CDC, the State of Florida, Broward County, and the City related to Covid-19 and agree to abide by those recommendations as applicable to any activity related to this site visit.

IFB # RE-24-07 Pembroke Pines Park - HVAC Replacement Re-bid

Date: 8/20/2024 Meeting Location: Rose Price Park, located at 901 NW 208th Avenue, Pembroke Pines, FL 33029 @ 10AM

PRE-BID ATTENDANCE SHEET

1) <input checked="" type="checkbox"/>	Company Name: ICR MECHANICAL CONTRACTOR Address: 3520 W 74TH ST, PALM BEACH, FL	Representative Printed Name: Tyler Roberts	Email: OFFICE@ICRMECHANICALCONTRACTOR.COM
2) <input checked="" type="checkbox"/>	Company Name: Quantum Mechanical Address:	Representative Printed Name: John Richards	Phone Number: 786-970-9855 Email: Sondra87@gmail.com
3) <input checked="" type="checkbox"/>	Company Name: Abercrombie & Fitch Inc Address: 3441 NW 34th Street Land Lakes	Signature: Obery Ambrose	Phone Number: 954 793-8610 Email: Acrep@abcf.com
4)	Company Name: Address:	Signature: Representative Printed Name:	Phone Number: Email:
5)	Company Name: Address:	Signature: Representative Printed Name:	Phone Number: Email:
6)	Company Name: Address:	Signature: Representative Printed Name:	Phone Number: Email:
7)	Company Name: Address:	Signature: Representative Printed Name:	Phone Number: Email:
8)	Company Name: Address:	Signature:	Phone Number:

WAIVER AND RELEASE OF LIABILITY

As a participant and by signing this PRE-BID ATTENDANCE SHEET, I hereby waive, release, and indemnify the City of Pembroke Pines, its officers, agents, employees, commission, insurers and volunteers (collectively, the "City") from any and all claims, liability, injury, causes of action, suits, demands and/or damage of whatever kind, (collectively, "Claims") made by myself or any party on my behalf whether caused in whole or in part by any negligence of the City, or otherwise, in connection with my participation in the above-referenced program/activity; I hereby further hold the City harmless from any and all Claims that may be incurred in connection with my participation in the above-referenced site visit for the above mentioned project. By signing this form and as a participant in this PRE-BID MEETING / SITE VISIT, I affirm that I am physically able to participate in the City of Pembroke Pines's PRE-BID MEETING / SITE VISIT. By signing this form I affirm that I understand and recognize there are risks and hazards associated with said activity and that I am waiving and releasing the Claims described above. This Waiver and Release shall be binding upon myself, and my respective successors, heirs, assigns, executors, administrators, spouse and next of kin. I affirm that I am aware of the current recommendations from the CDC, the State of Florida, Broward County, and the City related to Covid-19 and agree to abide by those recommendations as applicable to any activity related to this site visit.







Sent from my iPhone










Project View Count









1630











Vendor Funnel









 Followers	66
 Downloaders	92
 Applicants	24
 No Bids	14
 Submissions	5











Vendors








Vendor	Followed	Downloaded	Applied	No Bid	Submitted
ADVANCED ROOFING, INC.  <i>debbieg@advancedroofing.com</i>	✓	✓	✓		✓
AJM SERVICES GROUP CORP <i>yeseniabedoya5@gmail.com</i>	✓	✓			
AMB Contracting LLC <i>avabowles2000@icloud.com</i>	✓				
ATS Waypoint <i>jansenf@atswaypoint.com</i>		✓			
Adler Charles Services inc  No <i>adler@adlercharlesservices.com</i>	✓	✓			
Advanced Integrated Services / A <i>laura@aisairmatic.com</i>	✓	✓			
Advanced Structural Engineering, <i>karen.ratliff@advancedstructuraleng.</i>			✓	✓	
Air Mechanical & Service Corp. <i>blaine@amsco-ac.com</i>	✓	✓			
Airmatic Controls, Inc.  No Rev <i>laura@airmaticac.com</i>		✓			










Alex Goodwin Electric  No Rev <i>estimatingage@gmail.com</i>			✓	✓	
Alex Goodwin Electric  No Rev <i>johnbmayhle@gmail.com</i>			✓	✓	
All Seasons Air Conditioning  No Rev <i>leeannreeves@gmail.com</i>	✓	✓			
Amador Roofing Co.  No Review <i>hpacheco@amadorroofing.com</i>	✓				
American Efficiency Services, LLC <i>aesportals@americanefficiency.com</i>			✓	✓	
Anew Establishment Corporation <i>juliettvernon@yahoo.com</i>	✓	✓			
BAM Adventures, Inc <i>cecilia.mattei@batteriesplus.com</i>	✓	✓			
Bella Fiore Landscaping LLC  <i>b.fiorelandscaping@gmail.com</i>	✓	✓			
Black Girl with a Hammer, LLC <i>stephanieofl@gmail.com</i>		✓			
Blizzard Air Conditioning  No Review <i>info@blizzardairfl.com</i>	✓	✓			
Bray Commercial Valves <i>mike.muglia@bray.com</i>		✓			
Bridge Enterprise Solutions <i>andriedacosta@gmail.com</i>	✓	✓			
CREATIVE INDUSTRIAL SOLUTIONS <i>admin@creativeindustrialsolutions.com</i>	✓	✓			
Caliste Construction LLC <i>ljones@calisteconstruction.com</i>	✓	✓			
Carrier <i>mario.bermudez@carrier.com</i>	✓	✓			
Cedars Electro Mechanical Inc.  <i>johnc@cedarsinc.com</i>	✓	✓			
Cedars Electro Mechanical Inc.  <i>johnc@cedarsinc.com</i>	✓	✓			

<i>angela@cedarsinc.com</i>					
Centerline Services Group, Inc.  <i>centerlineservicesgroup@gmail.com</i>	✓	✓			
Coast 2 Coast Promotional Marke <i>c2coast310@gmail.com</i>	✓	✓			
Coltec Engineering, Inc. <i>lfernandez@coltecengineering.com</i>	✓	✓			
Construct Estimates <i>james@constructestimates.com</i>	✓	✓			
ConstructConnect  <i>content@constructconnect.com</i>	✓	✓			
Construction Bid Source  <i>projects@constructionbidsource.com</i>		✓			
Cool Air Techs <i>coolairtechs@yahoo.com</i>	✓	✓			
Core Solutions Group LLC  <i>billie.welchman@coresolutionsgrp.cc</i>		✓			
Cortez Heating & Air  <i>ronsowards@cortez-ac.com</i>	✓	✓			
Cortez Heating & Air  <i>cjwildasin@cortez-ac.com</i>	✓	✓	✓		✓
Dodge Data And Analytics  <i>jayalakshmil@construction.com</i>		✓			
Dodgedocs <i>dodge.bidding@construction.com</i>		✓			
EER SERVICE LLC  <i>eeair2010@gmail.com</i>	✓	✓			
Earth Green LLC  <i>info@earthgreenllc.com</i>			✓	✓	
Elite Engineering Group <i>davidg@eliteengineering.group</i>		✓			
Energy Air, Inc.  <i>cmbids@energyair.com</i>			✓	✓	

Evo-Air <i>chris@evo-air.com</i>	✓	✓			
Fahrenheit AC <i>oa365sllc@gmail.com</i>	✓	✓			
Filterbuy Incorporated  No Rev <i>bids@filterbuy.com</i>			✓	✓	
Fisher Scientific  <i>john.bailey@thermofisher.com</i>			✓	✓	
Fitness Superstore, Inc.  No Re <i>bids.alerts@fitnesssuperstore.com</i>			✓	✓	
Florida Surety Bonds, Inc.  No <i>sarah@floridasuretybonds.com</i>	✓				
Frantz Global Solutions LLC <i>mail@frantzstaffingsolution.com</i>		✓			
GBGM Consulting, LLC.  No R <i>gbgmconsulting@gmail.com</i>		✓			
GENERATOR SOURCE  No R <i>oliver@generatorsource.com</i>	✓	✓			
GETTEN GIRL MASTER TOUCH <i>gettengirls@gmail.com</i>		✓			
Goliath Drywall Installation & Finis <i>goliathdrywall@gmail.com</i>	✓	✓			
Grand Slam Air Conditioning <i>grandslamcooling@gmail.com</i>	✓	✓			
Graphics Units Inc <i>manager.graphicsunit@gmail.com</i>	✓	✓			
Green Alliance Inc.  No Review <i>rduarte@greenalliancecorp.com</i>	✓	✓	✓		
HLK Pro Services LLC <i>douglasflorida@hotmail.com</i>	✓	✓			
HORIZON ATM LLC  No Review <i>thompson3parish@yahoo.com</i>	✓	✓			
Honesty AC and Mechanical Serv	✓	✓			

<i>honestyacandmechanicalservices@</i>						
I.T. Kreative Inc  No Reviews <i>itkreativeinc@gmail.com</i>	✓	✓				
IMS  No Reviews <i>ims_bids@construction.com</i>		✓				
IMTech LLC <i>isaac.maya@gmail.com</i>		✓				
INFINIGUARD Miami LLC <i>info@infiniguard.com</i>		✓				
INTEG MIAMI LLC  No Review: <i>czuluaga@integca.com</i>	✓	✓	✓			✓
JACARANDA AIR CONST INC  <i>jacbids@jacarandaconst.com</i>	✓	✓				
JCR Mechanical Contractor  No <i>office@jcrmechanicalcontractor.com</i>	✓	✓	✓			✓
JK Flenory & Company LLC  No <i>recruiter@jkfcompany.com</i>		✓				
JNB Contracting, LLC  No Revi <i>waleed.jnbconstruction@gmail.com</i>		✓				
Kimley-Horn and Associates, Inc. <i>florida.marketing@kimley-horn.com</i>		✓				
Lego Construction Co  No Revi <i>rs@legocc.com</i>	✓	✓				
Lincoln Surety Group <i>mark@lincolnsuretygroup.com</i>	✓	✓				
Mario's Painting and Services, Inc <i>info@mariospaint.com</i>	✓	✓	✓			✓
Mark Master Inc  No Reviews <i>phorton@markmasterinc.com</i>			✓	✓		
Master Mechanical Services Inc <i>info@mastermechanicalservices.com</i>	✓	✓				
Minneapolis LLC  No Reviews <i>ari@minneapolisbuilders.com</i>	✓	✓				

Morgan Transport & Logistics LLC <i>morgancarriers@outlook.com</i>	✓				
NEWSON CONSTRUCTION & C <i>ronnewson@icloud.com</i>	✓	✓			
NOW Interactives  No Reviews <i>vendor@nowinteractives.com</i>	✓	✓			
Network Craze  No Reviews <i>mfeatherstone@networkcraze.com</i>			✓	✓	
New Era Electric Inc  No Review <i>dmartinez@neweraelectric.net</i>		✓			
North America Procurement Cour <i>notifications@napc.me</i>		✓			
Parking Guidance Systems, LLC <i>mvalera@parkingguidancesystems.c</i>		✓			
Pipeline <i>chloensena@gmail.com</i>		✓			
PointsTek LLC  No Reviews <i>midiel.rodriguez@pointstek.com</i>		✓			
Quality air solutions <i>wtaylor.qas@gmail.com</i>	✓	✓			
Quantum Consultancy, LLC <i>katie@qc-team.com</i>		✓			
Quantum Mechanical, LLC <i>scott@quantummechanical.com</i>	✓	✓			
R J Wilder LLC <i>rjwilder@live.com</i>		✓			
RAB Secure Entry <i>mbell.ringabell@gmail.com</i>		✓			
RAMMAR ENTERPRISES LLC  No Reviews <i>rrc@cfbrotherservicescorp.com</i>	✓	✓	✓		
RZ Service Group LLC  No Re <i>support@rzservicegroup.com</i>	✓				
Richie Rich Services, LLC.  No <i>richierich@richierich.com</i>	✓	✓	✓		

office@richierichservice.com					
Ridgemax Roofing bryan@ridgemaxroofers.com		✓			
SSPARCO INC  No Reviews soto@ssparco.com	✓				
SYNERGY HEATING AND COOL synhvac@gmail.com	✓	✓			
Sheikera Coutain, P.A. realtor@gingersellsluxure.com	✓	✓	✓		
Snyder Air America joseph@jlmankowski.com	✓	✓			
Tau Restoration LLC  No Review gabi@taurestoration.com	✓	✓			
Textbook Warehouse, LLC  4.8 bids@textbookwarehouse.com			✓	✓	
ThermaServe Mechanical Inc.  mcox@thermaserve.com	✓		✓		
ThermaServe Mechanical Inc.  sroyer@thermaserve.com		✓			
Trevid Group LLC dave@trevidgroup.com		✓			
Trove 360 LLC  No Reviews melvin.ascott.360@outlook.com	✓	✓			
Unique Photo  No Reviews alanb@uniquephoto.com			✓	✓	
Unlimited Maintenance Services I umsteam@yahoo.com		✓			
Vasani Consulting  No Reviews jrubio@vasaniconsulting.com		✓			
Venergy Group  No Reviews mnajour@venergygroup.com	✓	✓			
Vereen Incorporated LLC najivereen@vereen-inc.com	✓	✓			

Video Visions, Inc.  No Reviews <i>portals@video-visions.com</i>			✓	✓	
Visual <i>visualbidalerts@gmail.com</i>			✓		
n/a <i>footbaall2000@gmail.com</i>			✓		
supreme builders group LLC <i>4supremebuilders@att.net</i>	✓		✓		
www.garrisonmechanical.com <i>lynn.tedim@garrisonmechanical.com</i>	✓		✓		