



**PASCO COUNTY BOARD OF COUNTY COMMISSIONERS
PURCHASING DEPARTMENT
8919 GOVERNMENT DRIVE
NEW PORT RICHEY, FLORIDA 34654**

TELEPHONE: (727) 847-8194
FACSIMILE: (727) 847-8065
pascocountyfl.net

INVITATION FOR BIDS

BID NO. 07-092D

AIR-HANDLING UNIT AND AIR-COOLED CONDENSING UNIT

SUMMARY OF WORK

It is the intent of this solicitation to contract with a vendor to provide an air-handling unit and an air-cooled condensing unit per the specifications.

The Pasco County Purchasing Department will receive sealed bids until 3:00 p.m., local time (our clock), on April 20, 2007, in the Pasco County Purchasing Department, 8919 Government Drive, New Port Richey, Florida. Bids received after this time will not be accepted. Bids will be publicly opened and read at the above-stated time and date. All interested parties are invited to attend. Bidders shall submit one (1) original bid form.

Please immediately advise of address changes or if you wish to have your firm removed from the vendor list. Vendors receiving this notice must submit either a bid/proposal or "NO BID" to remain on our vendor list for the specified commodity or service. A "NO BID" is provided on Page 2 for your convenience.

This cover is only intended to inform vendors of a pending Invitation for Bid or Request for Proposal. For complete details, please refer to the complete bid/proposal package.

Bid documents may be downloaded by visiting www.PascoCountyFL.net or by requesting copies from the Purchasing Department at no cost. Pasco County is not responsible for expenses incurred prior to award by the Board of County Commissioners (BCC).

Dawn D'Ascoli
Buyer



**PASCO COUNTY BOARD OF COUNTY COMMISSIONERS
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STATEMENT OF NO BID

We, the undersigned, have declined to submit a bid response to Invitation for Bid No. 07-092D for the following reason(s):

Please check all that apply.

1. ☐ Opening date does not allow sufficient time to complete bid response.
2. ☐ We do not offer the commodities or services requested.
3. ☐ Our schedule would not permit us to perform.
4. ☐ We are unable to meet the issued specification.
5. ☐ Specifications are restrictive (please explain below).
6. ☐ We are unable to meet the surety requirements.
7. ☐ Other: _____

Explanations: _____

We understand that if a "NO BID" is not returned, our firm will be removed from the bidders' list for the subject commodity.

Name: _____

Signature: _____

Company: _____

Address: _____

City/State/Zip: _____

Telephone: _____

Facsimile: _____

Fed. ID No.: _____

IMPORTANT!—PLEASE READ CAREFULLY BEFORE MAKING BID

GENERAL PROVISIONS

These general terms and conditions of the bid quotation and acceptance apply in like force to this inquiry and to any subsequent contract resulting therefrom.

ACKNOWLEDGMENT OF AMENDMENTS

Bidders shall acknowledge receipt of any amendment to the solicitation by identifying the amendment number in the space provided for this purpose on the bid form, by letter, or by returning a copy of the issued amendment with the submitted bid. The acknowledgment must be received by Pasco County by the time and at the place specified for the receipt of bids. Failure to acknowledge an issued amendment may result in bid rejection and disqualification.

ADDITIONAL INFORMATION

Questions concerning the contract or technical portions of the bid document must be submitted in writing to Scott P. Stromer, Purchasing Director, Pasco County Purchasing Department; 8919 Government Drive; New Port Richey, Florida 34654; facsimile (fax) machine number (727) 847-8065. Bidders are cautioned that any statements made by individuals, or employees of Pasco County, that materially change any portion of the bid document shall not be relied upon unless subsequently ratified by a formal written amendment to the bid document. No contractual or technical questions will be accepted after ten (10) days prior to the date set for bid opening.

ALTERNATIVE BIDS

The bidder **WILL NOT** be allowed to offer more than one (1) price (for the goods or services specified). If the said bidder should submit more than one (1) price on any item (or service), ALL prices will be rejected for that item. The bidders offering service delivery methods other than those permitted by the scope of work or specifications may submit a separate envelope clearly marked "Alternative Bid." Alternative bids will be deemed nonresponsive and will not be considered for award. All such responses will, however, be examined prior to award. Such examination may result in cancellation of all bids received to permit rewriting the scope of work or specifications to include the alternative method, or the alternative method may be considered for future requirements of Pasco County.

ANTITRUST

By entering into a contract, the contractor conveys, sells, assigns, and transfers to Pasco County all rights, titles, and interest it may now have or hereafter acquire under the antitrust laws of the United States and the State of Florida that relate to the particular goods or services purchased or acquired by Pasco County under the said contract.

APPLICABLE LAW

The contract shall be governed in all respects by the laws of the State of Florida, and any litigation with respect thereto shall be brought in the courts of Pasco County, Florida. The contractor shall comply with all applicable Federal, State, and local laws and regulations. Lack of knowledge by the bidder will in no way be a cause for relief from responsibility.

ASSIGNMENT

The contractor shall not assign, transfer, convey, sublet, or otherwise dispose of any award or any or all of its rights, title, or interest therein, or delegate the duties hereunder without the prior written consent of Pasco County.

AWARD

Consideration for award will be by proximity to specifications given, costs, and time of delivery. All purchases, leases, or contracts that are based on competitive bids will be awarded to the lowest, responsive, and responsible bidder. Complete and accurate responses to all items are necessary for the complete and fair evaluation of bids. Bid award, in addition to the above stated, will be based on compliance with the specified requirements as well as the "total-cost" or "life-cycle costing" concept, including the following: 1) Cost: A cost analysis will be conducted and will include all identifiable costs associated with acquisition, installation, maintenance, and operation of the bidder's offered equipment. The analysis will be based upon the bidder's proposal data and other costs which, in the judgment of the evaluators, will be incurred by Pasco County resulting from acceptance of the bidder's proposal; 2) Equipment: Evaluation of equipment will be based on compliance with the specifications, expected life of equipment, output, maintenance, consumption, disposal value, warranty, complexity of operation, required training, and other factors that may contribute to the overall cost of the specified item; and 3) Bidder's Reputation and Experience: Evaluation of the bidder's reputation, past performance, and experience shall be based on the nature and extent of company data furnished, references and financial responsibility of the bidder. Pasco County reserves the right to award by lowest total, whichever is deemed to be in Pasco County's best interest.

BID ACCEPTANCE PERIOD

Any bid submitted as a result of the solicitation shall be binding on the bidder for a minimum of ninety (90) calendar days following the bid opening date. Any bid for which the bidder specifies a shorter acceptance period may be rejected.

BID CLARIFICATIONS

If any party contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the plans, specifications, or other documents, he should submit a written request for an interpretation thereof to the Purchasing Director. The bidder's concerns, regarding clarification of specifications and/or discrepancies and/or omissions and/or changes to the attached specifications shall be made in writing and received by Pasco County no later than ten (10) calendar days prior to the bid opening date. The letter from the bidder shall state clearly, and in detail, the basis for such concern(s) or request(s). The letter shall be addressed to the Purchasing Director, and marked "PREBID QUESTION" on the face of the envelope. The Purchasing Director will respond in writing. An interpretation of the bid invitation document will be made only by addendum duly issued to each party receiving a bid invitation. All such addenda shall become part of the contract documents. Pasco County shall not be responsible for explanations or interpretations of bid invitation documents except as issued in accordance herewith. No oral interpretations will be made as to the meaning of specifications or any other contract documents. Failure to comply with this provision will result in the bidder waiving his/her right to dispute the bid specification.

BIDDER CERTIFICATION

The bidder agrees that submission of a signed bid form is certification that the bidder will accept an award made to it as a result of the submission.

BIDDER INVESTIGATIONS

Before submitting a bid, each bidder shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by Pasco County upon which the bidder will rely. If the bidder receives an award as a result of its bid submission, failure to have made such investigations and examinations will in no way relieve the bidder from its obligation to comply in every detail with all provisions and requirements of the contract documents, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

BIDDERS' LIST

Failure to submit a bid for the item(s) specified will result in removal from the bidders' list for such (an) item(s). If a bid is not submitted, a "NO BID" response must be submitted to remain on the Pasco County's bidders' list for such items. A form for submitting a "NO BID" is provided on Page 2 for your convenience.

BID ENVELOPES

Envelopes containing bids must be sealed and marked in the lower left-hand corner with the invitation number, commodity, and date and hour of opening of bids. Failure to do so may cause bid not to be considered. Express Company or Express Mail envelopes containing a sealed bid shall also be sealed and marked in the lower left-hand corner with the invitation number, commodity, and date and hour of opening of bids.

BID FORM SUBMISSION

Bids shall be submitted on the attached forms. Bids concerning separate bid invitations must not be combined on the same form or placed in the same envelope. Bids submitted in violation of this provision shall not be considered. All bids must be signed, in ink, in order to be considered. Erasures are not acceptable on bids; if necessary to make a change, strike out or draw a line through incorrect item and type the correction above, and initial the correction in ink. If the bidder is a firm or corporation, the bidder must show the title of the individual executing the bid, and if the individual is not an officer of the firm or corporation, the bidder must submit proof that the individual has the authority to obligate the firm or corporation. **BIDS MAY NOT BE ALTERED OR AMENDED AFTER THE BID CLOSING.**

BID RECEIPT AND OPENING

Pasco County will receive sealed bid proposals until date and time indicated on bid cover. Bids must be delivered, by hand or mail, to the Pasco County Purchasing Department, located at 8919 Government Drive, New Port Richey, Florida, where they will be opened at the stated time. Bids must be time stamped in the Purchasing Department before or on the hour and date indicated on the cover sheet (Invitation for Bid) for the bid opening. Bids received after the date and time of the bid opening will be received, date stamped, and returned to the bidder unopened. It is the responsibility of the bidder to ensure that bids arrive at the designated opening place on time. Late or nondelivery due to mail or express delivery company failure will not be considered adequate reason for consideration of late bids. **FAXED BIDS WILL NOT BE ACCEPTED AND SHALL NOT BE CONSIDERED FOR EVALUATION OR AWARD.** Notes may be taken at the public reading of the bid(s) at the specified time and date of the opening or a personal inspection may be made of the bid(s) after award has been made and documents are placed in central and public files.

BID WITHDRAWAL

Bids may not be changed after the bid closing time.

To withdraw a bid that includes a clerical error after bid opening, the bidder must give notice in writing to Pasco County of claim or right to withdraw a bid. Within two (2) business days after the bid opening, the bidder requesting withdrawal must provide to Pasco County all original work papers, documents, and other materials used in the preparation of the bid. A bidder may also withdraw a bid prior to the time set for the opening of bids by simply making a request in writing to Pasco County; no explanation is required. No bidder who is permitted to withdraw a bid shall, for compensation, supply any material or labor to or perform any subcontract or other work for the person to whom the contract is awarded or otherwise benefit from the contract. No partial withdrawals of a bid are permitted after the time and date set for the bid opening; only complete withdrawals are permitted. The decision to allow or disallow bid withdrawal remains solely with Pasco County.

BRAND NAMES

Any catalog, brand name, or manufacturer's reference used in the specifications is intended to be descriptive and not restrictive, and is used **only** to indicate type and quality desired. Any article, equipment, or material, which shall conform to the standards and excellence, so established, and is of equal merit, strength, durability, and appearance to perform the desired function, is deemed eligible for offer as a substitute. The qualifications of the offering shall be judged as to their conformance with these specifications. Any equipment offered other than herein specified shall be subject to a competitive demonstration and evaluation by Pasco County. The determination as to whether any alternate product or service is or is not equal shall be made by Pasco County, and such determination(s) shall be final and binding upon all bidders.

CANCELLATION

Pasco County reserves the right to cancel a resulting contract, without cause, by giving thirty (30) days' prior written notice to the contractor of the intention to cancel, or with cause if at any time the contractor fails to fulfill or abide by any of the terms or conditions specified. Failure of the contractor to comply with any of the provisions of a resulting contract shall be considered a material breach of contract and shall be cause for immediate termination of the contract at the sole discretion of Pasco County. In addition to all other legal remedies available to Pasco County, Pasco County reserves the right to cancel and obtain from another source, any services which have not been provided within the required period of time or, if no such time is stated, within a reasonable period of time from the date of order or request, as determined by Pasco County.

CERTIFICATION OF INDEPENDENT PRICE DETERMINATION

The bidder certifies that the prices submitted in response to the solicitation have been arrived at independently and without—for the purpose of restricting competition—any consultation, communication, or agreement with any other bidder or competitor relating to those prices, the intention to submit a bid, or the methods or factors used to calculate the prices bid.

CHANGE IN SCOPE OF WORK

Pasco County may order changes in the work consisting of additions, deletions, or other revisions within the general scope of the contract. No claims may be made by the contractor that the scope of the project or of the contractor's services has been changed, requiring changes to the amount of compensation to the contractor or other adjustments to the contract, unless such changes or adjustments have been made by written amendment to the contract or

purchase order signed by Purchasing Director. If the contractor believes that any particular work is not within the scope of the project, is a material change, or will otherwise require more compensation to the contractor, the contractor must immediately notify Pasco County in writing of this belief. If Pasco County believes that the particular work is within the scope of the contract as written, the contractor will be ordered to and shall continue with the work as changed and at the cost stated for the work within the scope.

COLLUSION AMONG BIDDERS

Each bidder, by submitting a bid, certifies that it is not a party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any or all bids shall be rejected if there is any reason for believing that collusion exists among the bidders. Pasco County may or may not, at its discretion, accept future bids for the same work from participants in such collusion. More than one (1) bid from an individual, firm, partnership, cooperation, or association under the same or different names may be rejected. Reasonable grounds for believing that a bidder has interest in more than one (1) bid for the work being bid may result in rejection of all bids in which the bidder is believed to have interest. Nothing in this clause shall preclude a firm acting as a subcontractor to be included as a subcontractor for two (2) or more primary contractors submitting a bid for the work.

CONFLICT OF INTEREST

The contractor, by submission of its proposal, certifies that to the best of his/her knowledge or belief, no elected/appointed official or employee of Pasco County is financially interested, directly or indirectly, in the offer of goods or services specified in this invitation.

DEBARMENT

By submitting a bid, the bidder certifies that it is not currently debarred from submitting bids for contracts issued by any political subdivision or agency of the State of Florida and that it is not an agent of a person or entity that is currently debarred from submitting bids for contracts issued by any subdivision or agency of the State of Florida.

ERRORS IN EXTENSIONS

If the unit price and the extension price are at variance, the unit price shall prevail.

ETHICS IN PUBLIC PROCUREMENT

The contract shall incorporate by reference, but shall not be limited to, the provisions of law contained in Chapter 112, Florida Statutes. 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 or 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, Florida Statutes, for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. The bidder certifies that its bid was made without collusion or fraud; that it has not offered or received any kickbacks or inducements from any other bidder, supplier, manufacturer, or subcontractor in connection with this bid; and that it has not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services, or anything of value.

EXCEPTIONS

Bidders taking exception to any part or section of the solicitation shall indicate such exceptions on the bid form or appendix. Failure to indicate any exception will be interpreted as the bidder's intent to comply fully with the requirements as written. Conditional or qualified bids, unless specifically allowed, shall be subject to rejection in whole or in part.

EXPENSES INCURRED IN PREPARING BID

Pasco County accepts no responsibility for any expense incurred by the bidder in the preparation and presentation of a bid. Such expenses shall be borne exclusively by the bidder.

FAILURE TO DELIVER

In the event of failure of the contractor to deliver the goods and services in accordance with the contract terms and conditions, Pasco County may procure the goods and services from other sources and hold the contractor responsible for any resulting additional costs. A failure to deliver will result in immediate termination of a resulting contract, and immediate disqualification and debarment from submitting bids to Pasco County for a maximum of three (3) years. These remedies shall be in addition to any other remedies that Pasco County may have available.

FAILURE TO ENFORCE

Failure by Pasco County at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of Pasco County to enforce any provision at any time in accordance with its terms.

FAIR LABOR STANDARDS

By submission of a bid, the bidder certifies that the contractor(s) and/or subcontractor(s) providing product(s) or service(s) shall, in the execution or performance of such a contract, maintain fair labor standards as defined in applicable State and Federal regulations.

FORCE MAJEURE

The contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the contractor, unless otherwise specified in the contract.

IDENTICAL BIDS

Identical bids or bids which otherwise appear suspicious will be reported to the County Attorney for investigation.

INDEMNIFICATION

In consideration of the sum of Fifteen and 00/100 Dollars (\$15.00), the receipt and sufficiency of which is acknowledged by the contractor to be included and paid for in the contract price, the contractor shall indemnify, defend, and hold harmless Pasco County and its agents and employees from and against all liabilities, claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from the performance of the work, provided that any such liability, claim, damage, loss, or expense: 1) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself), including the loss of use resulting therefrom; and 2) is caused in whole or in part by any negligent act or omission of the contractor and subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, except for those caused by the negligent act or omission of Pasco County.

In any and all claims against Pasco County or any of its agents or employees by any employee of the contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under the previous paragraph shall not be limited in any way as to the amount or type of damages, compensation, or benefits payable by or for the contractor or any subcontractor under Workers' Compensation Acts, disability benefit acts, or other employee benefit acts.

INDEPENDENT CONTRACTOR

The contractor shall be legally considered an independent contractor and neither the contractor nor its employees shall, under any circumstances, be considered servants or agents of Pasco County; and Pasco County shall be at no time legally responsible for any negligence or other wrongdoing by the contractor, its servants, or agents. Pasco County shall not withhold from the contractor any Federal or State unemployment taxes, Federal or State income taxes, Social Security tax, or any other amounts for benefits to the contractor. Further, Pasco County shall not provide to the contractor any insurance coverage or other benefits, including workers' compensation, normally provided by Pasco County for its employees.

INFORMALITIES AND IRREGULARITIES

Pasco County has the right to waive minor defects or variations of a bid from the exact requirements of the specifications that do not affect the price, quality, quantity, delivery, or performance time of the services being procured. If insufficient information is submitted by a bidder with the bid for Pasco County to properly evaluate the bid, Pasco County has the right to require such additional information as it may deem necessary after the time set for receipt of bids, provided that the information requested does not change the price, quality, quantity, delivery, or performance time of the services being procured. The BCC reserves the right to reject any or all bids in whole or in part; to award by any item, group(s) of items, total bid, or accept the bid that is most advantageous and in the best interest of Pasco County.

LIMITATION OF COST

The contractor agrees to perform the work specified and complete all obligations under the contract within the stated amounts.

NONAPPROPRIATION

All funds for payment by Pasco County under this contract are subject to the availability of an annual appropriation for this purpose by Pasco County. In the event of nonappropriation of funds by Pasco County for the services provided under the contract, Pasco County will terminate the contract, without termination charge or other liability, on the last day of the then-current fiscal year or when the appropriation made for the then-current year for the services covered by this contract is spent, whichever event occurs first. If at any time funds are not appropriated for the continuance of this contract, cancellation shall be accepted by the contractor on thirty (30) days' prior written notice, but failure to give such notice shall be of no effect, and Pasco County shall not be obligated under this contract beyond the date of termination.

NONCONFORMING TERMS AND CONDITIONS

A bid response that includes terms and conditions that do not conform to the terms and conditions in the bid document is subject to rejection as nonresponsive. Pasco County reserves the right to permit the bidder to withdraw nonconforming terms and conditions from its bid response prior to a determination by Pasco County of nonresponsiveness based on the submission of nonconforming terms and conditions.

NONDISCRIMINATION

By submission of bid, the bidder certifies that the contractor(s) and/or subcontractor(s) providing product(s) or service(s) shall not discriminate against any employee or applicant for employment, to be employed in the performance of such contract, with respect to his/her hire, tenure, terms, conditions, or privileges of employment, because of his/her race, color, religion, sex, disability, or national origin, as outlined in applicable State and Federal regulations.

ORAL STATEMENTS

No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this contract. All modifications to the contract or purchase order must be made in writing by Pasco County.

PATENTS AND ROYALTIES

The contractor covenants to save, defend, keep harmless, and indemnify Pasco County and all of its officers, departments, agencies, agents, and employees from and against all claims, loss, damage, injury, fines, penalties, and cost—including court costs and attorney's fees, charges, liability, and exposure, however caused—for or on account of any copyright or patented or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by Pasco County. If the contractor uses any design, device, or materials covered by patent or copyright, it is mutually agreed and understood without exception that the contract price includes all royalties or costs arising from the use of such design, device, or materials in any way in the work.

PAYMENT PROCEDURES

The BCC has adopted Resolution No. 95-70, incorporating its Invoice Payment Procedures Policy in order to help ensure that vendors providing goods and/or services to the BCC receive payment in a timely manner and in accordance with Chapter 218, Part VII, Florida Statutes (The Florida Prompt Payment Act). A copy of Resolution No. 95-70 (which includes the policy) is available for viewing during normal business hours at the Office of the Pasco County Clerk of the Circuit Court; 38053 Live Oak Avenue; Department of Secretarial Services, Room 205; Dade City, Florida 33525. Copies of the Resolution may be obtained at a cost of One and 20/100 Dollars (\$1.20). Please make your check payable to Jed Pittman, Clerk of the Circuit Court, and forward payment to the Department of Secretarial Services at the address noted above. For further information, please call (352) 521-4347.

Several payment options are available to successful vendor, upon receipt of a correct invoice:

1. Check may be mailed to the remit address on the invoice. The check is sent to the Post Office the day after BCC approval.
2. Check may be picked up in Dade City. The vendor must pick up the check the day after BCC approval. The successful bidder or contractor must call (352) 521-4599 for detailed instructions.
3. Payment may be wire-transferred to the vendor's bank account. The vendor must call (352) 521-4599 for detailed instructions.

PAYMENT TERMS AND DISCOUNTS

Unless otherwise indicated in the bid documents, payment terms will be net forty-five (45) days. Terms not consistent with this provision are not acceptable and may be cause for rejection. Pasco County will pay the contractor within forty-five (45) days after the receipt of a correct invoice for reasonable work allocable to the contract or after the date of acceptance of work that

meets contract requirements, whichever event occurs later. Payment(s) are considered effective on the date payment is mailed.

Discounts for prompt payment requiring payment by Pasco County within a stipulated number of days will be interpreted as applying within the stipulated number of calendar days after the date of receipt by Pasco County of a correct invoice describing reasonable work allocable to the contract or after the date of acceptance of work that meets contract requirements, whichever event occurs later. Discounts for payment in less than forty-five (45) days will not be considered during evaluation for award, but may be taken if applicable after award.

Payment for construction services will be in accordance with Chapter 218, Part VII, Florida Statutes (The Florida Prompt Payment Act).

PROCUREMENT REGULATIONS

A copy of the Pasco County Procurement Ordinance is available for review at Pasco County Purchasing Department, 8919 Government Drive, New Port Richey, Florida.

PUBLIC INFORMATION

Upon public opening of all bids or proposals presented to Pasco County as a result of this solicitation, any and all information contained therein is considered public and may be reviewed by any persons interested in doing so.

PURCHASE ORDER REQUIREMENT

Purchases of Pasco County are authorized only if a signed purchase order issued in advance of the transaction, showing that the ordering agency has sufficient funds available to pay for the service. Contractors providing services without a signed purchase order do so at their own risk. Pasco County will not be liable for payment for any services provided under the contract unless a valid purchase order has been issued to the contractor.

QUALIFICATIONS OF BIDDERS

The bidder may be required before the award of any contract to show to the complete satisfaction of Pasco County that it has the necessary facilities, ability, and financial resources to provide the service specified therein in a satisfactory manner. The bidder may also be required to give a past history and references in order to satisfy Pasco County in regard to the bidder's qualifications. Pasco County may make reasonable investigations deemed necessary and proper to determine the ability of the bidder to perform the work, and the bidder shall furnish to Pasco County all information for this purpose that may be requested. Pasco County reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy Pasco County that the bidder is properly qualified to carry out the obligations of the contract and to complete the work described therein. Evaluation of the bidder's qualifications shall include:

1. The ability, capacity, skill, and financial resources to perform the work or provide the service required.
2. The ability of the bidder to perform the work or provide the service promptly or within the time specified, without delay or interference.
3. The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
4. The quality of performance of previous contracts or services.

QUALITY OF GOODS

All goods shall be new, in first class condition, and of the manufacturer's latest design of the model presently in production. All materials, supplies, and equipment furnished or services performed under the terms of this purchase order or contractual agreement shall comply with the requirements and standards specified in the Williams-Steiger Occupational Safety and Health Act of 1970 (Public Law 91-596), as well as other applicable Federal, State, and local codes. Equipment and materials furnished by the bidder having serious defects, corrosion, or scratches which tend to present an "other than new" appearance shall be promptly replaced or such defects promptly corrected by the bidder at no cost to Pasco County. Any existing Material Safety Data Sheets (MSDS) for the products, materials, supplies, or equipment being bid must be submitted with the bid. No product containing asbestos, lead paint, or polychlorinated biphenyl (PCB) in any form will be considered for award by Pasco County.

RECOVERY OF MONEY

Whenever, under the contract, any sum of money shall be recoverable from or payable by the contractor to Pasco County, the same amount may be deducted from any sum due the contractor under the contract or under any other contract between the contractor and Pasco County. The rights of Pasco County are in addition and without prejudice to any other right Pasco County may have to claim the amount of any loss or damage suffered by Pasco County on account of the acts or omissions of the contractor.

RIGHT TO AUDIT

The contractor shall maintain such financial records and other records as they relate to the purchase of goods and/or services by Pasco County from the subject vendor. The contractor shall retain these records for a period of three (3) years after final payment, or until they are audited by Pasco County, whichever event occurs first. These records shall be made available during the term of the contract and the subsequent three (3) year period for examination, transcription, and audit by Pasco County, its designees, or other authorized bodies.

RISK OF LOSS

Pasco County shall be relieved from all risks of loss or damage to goods during periods of transportation, manufacture, and the entire time the goods are in the possession of Pasco County prior to acceptance by Pasco County. At such time, the risk of loss or damage for goods shall pass to Pasco County. The bidder/contractor shall not be responsible for damage to the goods occasioned by negligence of Pasco County or its employees.

TABULATIONS

Solicitation results, plan holder lists, and related information may be retrieved from our website: www.PascoCountyFL.net. Click on "Bids," click on "closed solicitations," and look for the solicitation number in the appropriate year. Solicitation results will normally be available online within three (3) working days after opening. Lengthy tabulations may not be available online, but may be viewed in the Purchasing Department. Plan holder lists will normally be available two (2) weeks prior to opening. Plan holder lists will be posted once, based on the information at the time, and will not be updated. Tabulations will not be given over the telephone or via fax.

TAXES

All bids shall be submitted exclusive of direct Federal, State, and local taxes; however, if the bidder believes certain taxes are properly payable, he/she may list such taxes separately in each case directly below the respective item bid price. Prices quoted must be in units specified, and shall not include the cost of any such taxes, including those on any material, supplies, or equipment used or installed in the work. Pasco County does not pay Federal Excise and Sales

Taxes on direct purchases of tangible personal property. See Exemption Number on face of the resulting purchase order. This exemption does not apply to purchases of tangible personal property made by contractors who use the tangible personal property in the performance of contracts for improvement of County-owned real property. Please refer to Chapter 192, Florida Statutes.

UNSATISFACTORY WORK

If, at any time during the contract term, the service performed or work done by the contractor is considered by Pasco County to create a condition that threatens the health, safety, or welfare of the community, the contractor shall, on being notified by Pasco County, immediately correct such deficient service or work. In the event the contractor fails, after notice, to correct the deficient service or work immediately, Pasco County shall have the right to order the correction of the deficiency by separate contract or with its own resources at the expense of the contractor. Notwithstanding the above, Pasco County reserves the right to cancel a resulting contract, without cause, by giving thirty (30) days' prior written notice to the contractor of the intention to cancel.

END OF GENERAL PROVISIONS

SPECIAL PROVISIONS

In addition to the General Provisions of this solicitation, these Special Provisions, along with the specifications that follow, apply in like force to this solicitation and to any subsequent contract resulting therefrom.

TRANSPORTATION AND PACKING

Prices quoted shall be net, including transportation and delivery charges fully prepaid by the seller, f.o.b. Land O' Lakes, Florida 34639. No additional charges will be allowed for packing, packages, or partial delivery costs. By submitting their bids, all bidders certify and warrant that the price offered for f.o.b. destination includes only the actual freight rate costs at the lowest and best rate and is based upon actual weight of the goods to be shipped. Standard commercial packaging, packing, and shipping containers shall be used, except as otherwise specified herein.

END OF SPECIAL PROVISIONS

ENERGY RECOVERY AIR-HANDLING UNIT AND AIR-COOLED CONDENSING UNIT SPECIFICATIONS

PART 1 - GENERAL

1.0 PART 1 - GENERAL

1.1 **Section Includes:**

1.1.1 Energy Recovery Air-Handling Unit.

1.1.2 Air-Cooled Condensing Unit.

1.2 **References:**

1.2.1 ANSI/ASHRAE 15 - Safety Code for Mechanical Refrigeration.

1.2.2 ANSI/ASHRAE 90A - Energy Conservation in New Building Design.

1.2.3 ANSI/NEMA MG I - Motors and Generators.

1.2.4 ANSI/UL 207 - Refrigerant-Containing Components and Accessories, Nonelectrical.

1.2.5 ANSI/UL 303 - Refrigeration and Air Conditioning Condensing, and Air-Source Heat Pump Equipment.

1.2.6 ANSI/UL 465 - Central Cooling Air Conditioners.

1.2.7 ARI 210/240 - Unitary Air Conditioning and Air-Source Heat Pump Equipment.

1.2.8 ARI 520 - Positive Displacement Refrigerant Compressors, Compressor Units, and Condensing Units.

1.2.9 ASHRAE 14- Methods of Testing for Rating Positive Displacement Condensing Units.

1.2.10 ARI 270- Sound Rating of Outdoor Unitary Equipment.

1.2.11 ANSI/NFPA 70 - National Electrical Code.

1.3 **Quality:**

1.3.1 Wiring internal to the unit shall be wired to a numbered terminal strip for simplified identification and ease of trouble shooting. Units shall be ETL listed and labeled, classified in accordance with UL 1995/CAN/CSA/ No. 236-M90.

1.3.2 The manufacturer must have a quality management system in place, equal to the quality assurance standard ISO 9001-2000, for the design, manufacture, and service of heat exchangers and packaged ventilation/air conditioning equipment. Less than the 2000 Standard of ISO shall not be acceptable due to the reduced focus on overall company management. Standard catalog units requiring modification to meet these specifications or units that are field assembled from pre-fabricated panels shall not be considered or accepted. The manufacturer must also have a net worth greater than five (5) times the value of the equipment being bid and must have been a manufacturer of packaged energy recovery equipment for at least ten years prior to bid time. The complete packaged unit, including air-to-air heat exchangers, must be manufactured in the United States of America.

1.4 **Warranty:**

The contractor shall provide a written warranty, signed by the manufacturer, agreeing to replace/repair, within warranty period, components with inadequate and defective materials and workmanship, including leakage, breakage, improper assembly, or failure to perform as required provided manufacturer's instructions for handling, installing, protecting, and maintaining units have been adhered to during warranty period. Replacement is limited to component replacement only, and does not include labor for removal and reinstallation. Warranty period shall be one (1) year parts and labor and provided by the unit manufacturer.

1.5 **Submittals:**

1.5.1 Submit shop drawings.

1.5.2 Submit shop drawings indicating components, assembly, dimensions, weights and loadings, required clearances, and location and size of field connections. Include schematic layouts showing condensing units, cooling coils, refrigerant piping, and accessories required for complete system (not required until five (5) days after award of bid).

1.5.3 Submit product data.

1.5.4 Submit product data indicating rated capacities, weights specialties and accessories, electrical nameplate data, and wiring diagrams.

1.5.5 Submit design data.

1.5.6 Submit design data indicating pipe and equipment sizing.

1.5.7 Submit manufacturer's installation instructions.

1.6 **Operation and Maintenance Data:**

1.6.1 Submit operation and maintenance data.

1.6.2 Include start-up instructions, maintenance instructions, parts lists, controls, and accessories.

1.7 Delivery, Storage, and Handling:

- 1.7.1 As part of the requirements, the manufacturer of the equipment herein specified shall deliver to the job site, ready for installation within twelve (12) weeks of receiving the purchase order.
- 1.7.2 Deliver, store, and protect products under provisions of Special Conditions.
- 1.7.3 Comply with the manufacturer's installation instructions for rigging, unloading, and transporting units.
- 1.7.4 Protect units on-site from physical damage. Protect coils.

2.0 PART 2 - PRODUCTS

2.1 Acceptable Manufacturers:

Basis of Design - Des Champs.

2.2 Manufactured Unit:

- 2.2.1 Provide Energy Recovery Unit(s) IAW with this specification, drawing details, and the corresponding Schedule of Performance and Schedule Notes.
- 2.2.2 The Energy Recovery System shall be shop manufactured and assembled by Des Champs Technologies, Inc. Arrangement of all units shall be as shown on the drawings. Performance shall be rated in accordance with ARI testing procedures. All units shall be factory assembled, internally wired, and 100 percent run-tested to check operation, fan and blower rotation, and control sequence (if applicable) before leaving the factory.
- 2.2.3 Pre-approval: To gain approval, alternate manufacturers shall provide to the Engineer the following information at least one (1) week prior to the bid date:
 - 2.2.3.1. Certified factory drawings detailing that overall dimensions and weights of proposed equipment does not exceed those shown on plans.
 - 2.2.3.2. Certified performance submittals of the unit and a line-by-line comparison of proposed equipment specification versus this specification with highlights of how the proposed equipment meets or exceeds this specification.
 - 2.2.3.3. If applicable, provide DDC control-sequence of proposed equipment, provide temperature sensor location, and wiring diagram.

2.3 Casing:

- 2.3.1 Base Frame: The base of the package shall be an all-welded structural "C" channel steel frame with required tubular and angular cross-members as required to maintain floor rigidity and stiffness and act as isolator supports - all solid welded in place. The base shall be painted with one (1) coat of a lead-free, rust-inhibiting, alkyd metal

primer, followed by two (2) coats corrosion- and weather-resistant 100 percent acrylic latex paint. The frame shall have sufficient cross members to support the system without bending or deforming the casing, to maintain waterproof integrity, and proper equipment alignment. The base shall also be constructed to minimize oil-canning and deflection due to component loading. Four (4) or more lifting lugs designed to work with clevises shall be an integral part of the structural frame and shall be welded using three-pass welds. Bolted or screwed base frame and floor assemblies are not acceptable due to their poor structural integrity and propensity to leak.

- 2.3.2 Underfloor Insulation: The underfloor shall be insulated with a sprayed polyurethane insulation that is a minimum one (1) inch thick and covers all exposed surfaces. The manufacture shall guarantee the underfloor will not sweat. Due to potential for underfloor sweating, pinned and glued fiberglass insulation shall not be allowed unless it is also accompanied by a fully seam- and perimeter-welded underfoot made of eighteen (18) gauge Ga. Steel.
- 2.3.3 Curb-mounted units shall include self-flashing rails that allow the perimeter channel to overlap the curb and form a natural weather seal. Equipment that requires separate flashing between the curb and the base of the unit shall be unacceptable.
- 2.3.4 Unit Casing: Unit casing shall be of the monocoque stressed skin design with two (2) inch double-wall, watertight construction. Walls and roof shall have an eighteen (18) gauge galvanized steel outer skin with a twenty-two (22) gauge galvanized steel inner liner. Two (2) inch minimum, 1.5 pound density fiberglass insulation shall be secured between the inner and outer skins. The insulation shall be held between the inner and outer walls and shall not be exposed to any air streams. All roof and sidewall seams shall be positively seated to prevent water and air leakage. Air leakage shall not exceed one (1) percent at 1½ times maximum unit operating pressure. All fastening hardware between wall panels shall be encapsulated within the wall for a clean exterior appearance and to minimize exterior wall panel penetration. Unit shall be constructed to limit frame and panel deflection to 1/200th of its span in any direction. Tubular frame or aluminum post type construction shall not be accepted due to excessive thermal bridging at panel joints, and poor weather seal characteristics.
- 2.3.5 Access Doors: Self-supporting, hinged access doors shall be provided for inspection and maintenance of fan assemblies and filters. Access doors shall be gasketed around the perimeter with weather-resistant closed-cell neoprene gaskets. The door shall be insulated the same as the unit casing, and double-wall constructed with full-length stainless steel piano-type hinges for rigidity and airtight enclosure. A minimum of two adjustable glass-reinforced nylon handle-type door latches shall be furnished for each hinged door. Each door handle shall be provided with large nylon roller cam for ease of operation and superior gasket depression. Each hinged door shall include locking mechanism that requires the use of a tool to open for safety and security purposes prior to unit startup. Handles shall be operable from either side of the door. Door frames shall be a minimum sixteen (16) gauge aluminized or 304L stainless steel, welded at the corners. The doors shall have adhesive-backed stickers applied to their exterior surfaces which indicate the unit contents that lie behind that door. All exterior doors shall be equipped with rain gutters. The doors

shall be manufactured in such a way as to allow removal of interior components without disassembly of the wall panels.

2.3.6 Floors: Floors shall be constructed of seam-welded sixteen (16) gauge aluminized steel. Floors constructed of Ga. Steel shall be heresite coated to achieve the same moisture resistant characteristics as aluminized steel. Floors have an upturned flange around the entire perimeter and around all interior chases to contain moisture within the unit. The entire floor and upturn flanges must be factory water-tested and certified leak-proof for a period of five (5) years from the date of shipment. Multiple floor drains shall be provided to route moisture to either side or bottom 1½ inch NPT drain connections (see the drawings for drain locations) that are accessible from the exterior of the unit. The purpose of the drains shall be to remove any condensate that is created within the casing as a natural part of the recovery or dehumidification process. Drains shall be flush with the unit floor so as not to create a trip hazard. Each floor-hole interface with the drain tube shall be circumferentially fillet-welded to prevent water leakage under the unit floor. The use of sealants for this purpose shall not be acceptable. All drains and associated piping are to be fully welded and tested.

2.3.7 Casing Paint: Entire exterior of unit shall be painted with two (2) coats corrosion- and weather-resistant, 100 percent acrylic latex paint of the manufacturer's standard color. Paint shall pass ASTM B117 500-hour salt fog resistance test and ASTM D4585 500-hour moisture condensation resistance test.

2.3.8 The casing shall house the fans, motors, coils, heat exchangers, and all factory-supplied optional equipment (where applicable). For outdoor units, intake and exhaust hoods shall be provided. The leading edge of the hood shall extend a minimum of four (4) inches below the bottom edge of the unit penetration. Opening shall be covered with an aluminum bird-screen which is separate from the hood. The hood to sheet metal joint shall be caulked with silicone by the contractor to prevent water leakage. The hood shall have a maximum 500 feet-per-minute, face-velocity through the free area. Hood material shall match that of the outer casing and may be shipped loose for field installation and/or assembly by the contractor.

2.4 **Wheel Heat Exchangers (Total and Sensible Heat Recovery Wheel):**

2.4.1 Wheel Matrix: The rotary air-to-air heat exchanger(s) shall be Model RT3 as manufactured by Des Champs Technologies. Rotor shall be constructed of rotating, honeycomb matrix consisting of a highly selective desiccant, permanently bonded to aluminum. The desiccant material shall be a molecular sieve with pore diameters ranging from 3A to 4A to minimize the carryover of undesirable gases. The corrugated media provides individual flutes to channel the airflow and thus minimize cross-contamination and ensure rated performance under all differential pressure conditions. The desiccant coating shall provide corrosion resistance against attack from office, laboratory, hospital, pharmaceutical chemicals, etc., and protection in coastal and marine environments.

2.4.2 Wheel Casing: The wheel frames shall consist of evenly spaced galvanized steel spokes, galvanized steel outer band, and a rigid center hub. The wheel construction shall allow for wheel alignment. The wheel seals shall be brush-type and shall be easily adjustable. Brush seals shall be included to separate fresh air from exhaust

air across entire surface of air-entering side, air-leaving side, and outer band (all four planes). Additionally, the entire circumference of the rotor shall include brush-seal to minimize air bypass. Cassettes shall be fabricated of heavy-duty, reinforced, sixteen (16) gauge, galvanized steel. Bearings shall be outboard-flanged, ball-bearing with concentric locking collars. Bearings shall be permanently sealed and lubricated for zero maintenance and long life. Drive-system shall consist of a heavy-duty AC motor driving a self-adjusting, easily replaceable, multi-link belt. Heat exchangers shall be tested in accordance with ASHRAE Standard 84-1991 and ARI Standard 1060.

2.4.3 Variable-speed drive and enthalpy controls for economizer mode shall be provided as scheduled.

2.4.4 Variable-speed drive and temperature or enthalpy controls for frost prevention shall be provided as scheduled.

2.5 **Supply and Exhaust Fans:**

2.5.1 The supply (and exhaust) air fan(s) shall be AMCA certified, Class I or II, heavy-duty, centrifugal plenum (AF-SWSI) type with non-overloading wheel. Flexible duct connections shall be provided to isolate the fan from the cabinet housing as required. Bearing supports shall be constructed of structural steel members to prevent vibration and to rigidly support the fan-shaft and bearings. Bearings shall be heavy-duty, grease-lubricated, anti-friction ball (adapter mount) or roller, self-aligning, pillow-block type and selected for a minimum bearing-life (AFBMA L-10) in excess of 80,000 hours at the maximum fan rpm. All bearings shall be equipped with greaseable-zerk fittings and, where necessary, extended tube-lines for easy access for lubrication. Turned, precision-ground and polished, steel shafts shall be sized so the first critical speed is at least twenty-five (25) percent over the maximum operating speed for each pressure class. All wheels shall be statically and dynamically balanced on precision electronic-balancers to a Balance Quality Grade G6.3 per ANSI/AMCA 204 or better.

2.5.2 Fan performance shall be based on tests and procedures performed in accordance with AMCA Publication 210 and Publication 310 and comply with the requirements of the AMCA Certified Ratings Program. Fans shall bear the AMCA seal. Fans with forward curved wheels shall be unacceptable.

2.5.3 All fans prior to shipment shall be completely assembled and test run as a unit at the specified operating speed or maximum rpm allowed for the particular construction type. Maximum vibration shall be within the limits of ANSI/AMCA 204 Fan Application Category BV-3. Balance readings shall be taken by electronic-type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained, and a written copy shall be available upon request.

2.6 **Motors and Drives:**

Motor electrical connections are to be factory prewired to the unit-control panel. Motor shall be mounted on adjustable base. Open Drip Proof (ODP) (supply-air and exhaust-air fans) type fan motors shall be furnished with efficiencies equal to or greater than those specified in the Energy Policy Act of 1992 (EPACT).

2.7 Dampers:

- 2.7.1 All dampers shall be of the low-leakage airfoil-blade type with blade edge and side seals. Dampers shall be constructed of extruded aluminum frames (6063T5) of not less than 2.03 mm thickness. Blades shall be of extruded-aluminum profiles with blade gaskets of extruded EPDM. Frame seals shall be of extruded TPE. Gaskets shall be secured in an integral slot within aluminum extrusions.
- 2.7.2 Bearings to be comprised of a celcon inner bearing fixed to 11.11 mm aluminum, hexagon blade pin rotating within a polycarbonate outer bearing inserted in frame. Linkage hardware shall be installed in frame-side and be constructed of aluminum and corrosion-resistant zinc and nickel-plated steel complete with cup-point trunnion screws for slip-proof grip.
- 2.7.3 Air leakage through a 48" X 48" damper shall not exceed 10.3 CF/square-foot against four (4) inch W.G. differential static pressure with standard air. Standard air-leakage data to be certified under the AMCA certified ratings program. Pressure-drop through a fully open 48" X 48" damper shall not exceed 0.02' W.G. at 1,000 feet per minute.

2.8 Cooling/Dehumidification Section:

- 2.8.1 Direct expansion-cooling coil shall be sized to provide cooling/moisture removal of the capacity indicated on the equipment schedule. Coil shall be furnished with interlaced, refrigerant circuits so that the entire coil-face area is active when the unit is in operation.
- 2.8.2 Coil shall be of internally finned $\frac{5}{8}$ -inch O.D. copper tubes mechanically bonded to configured aluminum-plate fins with a sixteen (16) gauge galvanized steel casing. Coil face velocity shall not exceed 500 feet per minute. Minimum clearance between coil and up/downstream device shall be twelve (12) inches free to facilitate cleaning. Coils shall be secured to their respective supports with stainless steel hardware. Coils shall be leak tested at 325 psig to ensure pressure integrity. The coils shall be rated at 300 psig. Coil shall be tested and certified according to ARI 410 and ASHRAE 33.
- 2.8.3 Coils shall have an integral, all seam-welded aluminum or stainless steel drain pan with a minimum depth of two (2) inches. The drain pan shall be sloped toward the nearest drain connection to promote effective condensate run-off. An access door shall be provided on each side of the coil, where feasible, to allow coil removal.
- 2.8.4 All coils over forty-two (42) inches in length shall incorporate a sixteen (16) gauge, galvanized-tube support at the center of the fin length; coils over ninety-six (96) inches in fin-length shall incorporate additional tube supports. Coils shall be sealed around the perimeter (between the coil-flanges and the unit-casing channels) with silicone or polyurethane sealant to eliminate air bypass and prevent moisture carryover.

2.9 Remote Air-Cooled Condensing Section:

- 2.9.1 The packaged, heat-recovery, system manufacturer shall provide a mechanical refrigeration system consisting of multiple hermetic, scroll compressors and air-cooled condenser unit with a minimum EER of 10.5. The refrigeration shall be circuited and have hot-gas bypass on lead circuit. The refrigeration shall be a regular product of the dehumidifier manufacturer who must have at least ten (10) years of refrigeration manufacturing experience prior to bid time.
- 2.9.2 Compressors shall be direct-drive, hermetic, scroll-type with centrifugal gear-type, oil pump providing positive lubrication to moving parts. Motor shall be suction gas-cooled and shall have a voltage-utilization range of plus or minus ten (10) percent unit-nameplate voltage. Internal temperature and current-sensitive motor overloads shall be included for maximum protection. Compressors shall have vibration isolation to minimize vibration transmission and noise.
- 2.9.3 Each refrigerant circuit shall have independent externally-compensated thermal-expansion valve, solenoid valve; service pressure-ports; and refrigerant-line filter-drier factory-installed as standard.
- 2.9.4 Condenser coil shall be of internally finned, ½" copper tubes mechanically bonded to configured, aluminum-plate fins. Coils shall be leak-tested at the factory to ensure pressure integrity. The coils shall be rated at 450 psig.
- 2.9.5 Condenser fans shall be direct drive, statically and dynamically balanced, draw-through in the vertical-discharge position. To ensure low-noise levels, maximum fan rpm shall be 1140 rpm. Protective steel fan-guards shall be furnished. The fan motors shall be permanently lubricated and have built-in thermal-overload protection.

2.10 Electric Heater:

An electric coil shall be furnished. It shall be mounted in the reheat position. Coil shall have 80/20 nichrome open-wire elements, designed for low-watt density, mounted in an aluminized-steel frame. Over current, thermal overload, and loss of airflow protection shall be included as required. Coil shall be SCR-controlled to modulate the air temperature to set point.

2.11 Filters:

- 2.11.1 Air filters shall be two (2) inch-deep pleated-type as standard, providing an average efficiency of thirty (30) percent by ASHRAE standard 52-76 test method. Maximum face-velocity shall be 500 feet per minute. Filters must be provided standard on all air-entering sides of air-to-air heat exchangers.

2.12 Electrical Controls:

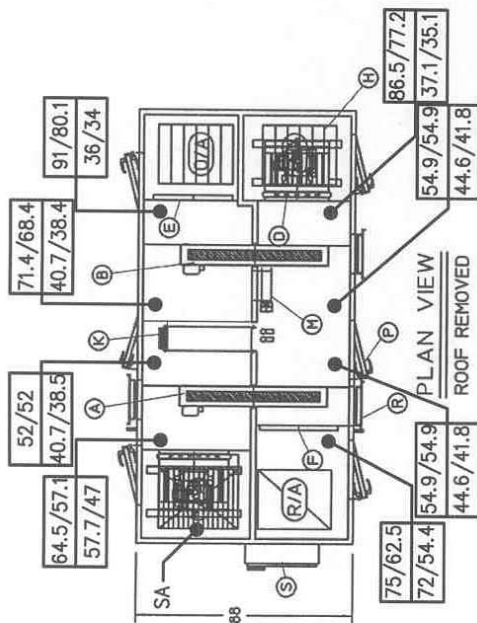
- 2.12.1 An integral electrical control panel shall be provided that has hinged access doors and an approved locking device. All power-wiring shall be brought to a common terminal strip, and only a single-point electrical connection shall be required. All required safety and automatic operating controls, including compressor internal motor-temperature-protection, motor thermal-overloads, cutouts for high- and low-

refrigerant pressure (for units with integral condensing units), and operating thermostats shall be included.

- 2.12.2 A fused control power transformer shall be furnished. All components shall be fully wired and tested prior to shipment, and all major electrical components shall be UL listed. Electrical system shall be ETL listed and labeled, in accordance with UL 1995. A fused-disconnect switch shall be furnished for field mounting and wiring by the electrical contractor. All wiring shall be connected to a numbered, terminal-strip for easy troubleshooting. Any conduit used shall not be run across or come into contact with the floor.

2.13 Temperature and Humidity Controls:

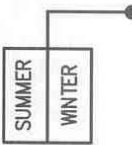
- 2.13.1 An electronic programmable microprocessor-based logic controller (PLC) with keypad input and LCD-display shall be furnished to control the energy recovery system. Temperature and humidity set-points and 365-day clock-functions, including daylight savings, holiday programming, and user overrides, shall be easily input by the operator. All required outside-air and supply-air temperature sensors and humidity transducers shall be provided as specified. Space humidity transducer and temperature sensor shall be field-mounted and wired by the controls contractor.
- 2.13.2 Refrigeration shall be staged by the microprocessor PLC by varying combinations of compressors to attain maximum steps of control so that hot-gas bypass is not required.
- 2.13.3 Unit shall be furnished with optional supply-air temperature-control system to permit customer control of discharge dry-bulb temperature as well as dew point.




- MAJOR COMPONENTS:
- A. DLI SENSIBLE HEAT WHEEL HEAT EXCHANGER
 - B. DLI TOTAL HEAT WHEEL HEAT EXCHANGER
 - C. S/A FAN WITH MOTOR AND DRIVES
 - D. E/A FAN WITH MOTOR AND DRIVES
 - E. S/A FILTER BANK (30% PLEATED)
 - F. E/A FILTER BANK (30% PLEATED)
 - G. O/A SHUT-OFF DAMPER
 - H. E/A SHUT-OFF DAMPER
 - K. COOLING COIL (DX TYPE)
 - L. HEATING COIL (ELECTRIC TYPE)
 - M. RECIRC AIR DAMPER
 - P. UNIT ACCESS DOOR (TYPICAL)
 - R. UNIT BOLT-ON PANEL (TYPICAL)
 - S. UNIT ELECTRICAL PANEL


OUTDOOR AIR UNIT DETAIL LEGEND

SUMMER AIR TEMPERATURE WB/DB DEG. F
WINTER AIR TEMPERATURE WB/DB DEG. F



OUTDOOR AIR UNIT DETAIL

LAND O'LAKES REC. CTR. - A.C. MODIFICATIONS		ADVANCED PURCHASE	
 ENGINEERING MATRIX, INC. CONSULTING ENGINEERS 2800 SCHERRER DRIVE, SUITE 640 ST. PETERSBURG, FLORIDA 33716 (727) 573-4656 FAX (727) 573-3902 EMAIL: email@engmtr.com <small>CERT. OF AUTHORIZATION NO. 4288 © 2007 Engineering Matrix, Inc.</small>	SCALE NONE	DATE 03/01/07	DRAWING NO. SD M3.11
	DRWN. BY EDE	CHKD. BY GFB	

SPLIT SYSTEM A/C SCHEDULE (ADVANCED PURCHASED)			
AIR HANDLING UNIT DATA			
MARK		OA-1	
MANUFACTURER		DES-CHAMPS	
MODEL NUMBER		WPR-050	
TOTAL COOLING CAPACITY	MBH	-	
SENSIBLE COOLING CAPACITY	MBH	-	
SUPPLY AIR QUANTITY	CFM	4555	
OUTSIDE AIR QUANTITY	CFM	4555	
RETRUN AIR QUANTITY	CFM	2850	
SUPPLY MOTOR SIZE	HP	7.5	
EXHAUST MOTOR SIZE		3	
SUPPLY AIR EXT. STATIC PRESS. DROP	IN. H2O	0.8	
OUTDOOR AIR EXT. STATIC PRESS. DROP	IN. H2O	0.3	
RETURN AIR EXT. STATIC PRESS. DROP	IN. H2O	0.4	
EXHAUST AIR EXT. STATIC PRESS. DROP	IN. H2O	0.4	
ELECTRICAL CHARACTERISTICS	V/PH/Hz	208/3/60	
S.E.E.R.	-	10	
ENTERING AIR TEMP. DB/WB.	F/F	91/80	
LEAVING AIR TEMP. DB/WB.	F/F	64.5/57.1	
RETURN AIR TEMP. DB/WB.	F/F	75/62.5	
FILTER TYPE	-	2" PLEATED	
WEIGHT	LBS.	6100	
MIN. ELECTRIC HEAT @ SCHEDULED VOLTAGE	KW	26.0	
CONDENSING UNIT DATA			
MARK	-	CU-1X	
MANUFACTURER	-	DES-CHAMPS	
MODEL NUMBER	-	20 TON	
NUMBER OF COMPRESSORS		MULTIPLE	
OUTDOOR TEMPERATURE	F	95	
ELECTRICAL CHARACTERISTICS	V/PH/Hz	208/3/60	
MIN. CKT. AMPS	-	93.0	
NOTES	-	1, 2, 3, 4, 5, 6	
<p>KEYED NOTE:</p> <p>① PROVIDE WITH DIGITAL PROGRAMMABLE THERMOSTAT; LOCKABLE SECURITY COVER ALL WITH THE SAME KEY (PROVIDE 5 COPIES OF THE KEY TO OWNER); AUTO CHANGEOVER TO COOLING AND HEATING MODE; REMOTE THERMOSTAT SETPOINT; ROOM TEMPERATURE SENSOR. PROVIDE WITH AUXILIARY DRAIN PAN WHICH EXTENDS 6" BEYOND PERIMETER OF UNIT ALL AROUND, INCLUDE FLOAT SWITCH TO SHUT DOWN UPON PRESENCE OF WATER.</p> <p>② PROVIDE WITH SINGLE POINT POWER CONNECTION. CU SHALL BE LOCKED OUT IN HEATING MODE.</p> <p>③ PROVIDE SMOKE DETECTOR IN SUPPLY DUCT. CONTROL THERMOSTAT SHUT DOWN LEG OF AIR HANDLER VIA AUXILIARY CONTACT IN DUCT DETECTOR. UNIT SHALL SHUT DOWN IF DUCT DETECTOR GOES INTO ALARM. PROVIDE DUCT DETECTOR WITH REMOTE TEST STATION ADJACENT TO AIR HANDLER.</p> <p>④ UNIT MOTOR SIZE INCLUDES INTERNAL STATIC PRESSURE DROP FOR FUTURE DIRTY FILTER.</p> <p>⑤ UNITS SHALL BE DELIVERED NO LATTER THAN 12 WEEKS AFTER ORDER DATE. DIMENSIONS OF ASSEMBLED AIR HANDLER SHALL BE NO GREATER THAN 176" LENGTH BY 88" WIDE BY 80" HEIGHT. WEIGHT OF ASSEMBLED AIR HANDLER SHALL BE NO GREATER THAN 6100 LBS. AIR HANDLER SHALL BE DELIVERED IN TWO PIECES: ONE PIECE SHALL WEIGH APPROXIMATELY 3800 LBS AND DIMENSION OF 93" LENGTH BY 88" WIDTH BY 80" HEIGHT, AND THE OTHER PIECE SHALL WEIGH APPROXIMATELY 2300 LBS AND DIMENSION OF 83" LENGTH BY 88" WIDTH BY 80" HEIGHT. REASSEMBLE THE AIR HANDLER IN FINAL LOCATION TO MAINTAIN ALL WARRANTIES.</p> <p>⑥ PROVIDE 6" MINIMUM BASE RAIL.</p>			
<p>LAND O'LAKES REC. CTR. - A.C. MODIFICATIONS ADVANCED PURCHASE</p>			
 <p>ENGINEERING MATRIX, INC. CONSULTING ENGINEERS 2860 SCHERER DRIVE, SUITE 640 ST. PETERSBURG, FLORIDA 33716 (727) 575-4656 FAX (727) 575-3902 EMAIL: email@engmtr.com CERT. OF AUTHORIZATION No. 4288 © 2007 Engineering Matrix, Inc.</p>	SCALE	DATE	<p>DRAWING NO.</p> <p>SD M4.12</p>
	<p>DRWN.BY</p> <p>EDE</p>	<p>CHKD.BY</p> <p>GFB</p>	

END OF SPECIFICATIONS

BID FORM

Business Name: _____

Item No.	Quantity	Description	Unit Price	Total
1.	1 Each	Air-handling unit and air-cooled condensing unit, per the specifications, or equal.	\$_____	\$_____

Manufacturer: _____

Warranty: _____

Model: _____

Delivery: _____ Calendar Days After
Receipt of Order

"We offer to sell/provide Pasco County, Florida, the above item(s) and/or service(s) at the price(s) stated, in accordance with the terms and conditions contained herein. In addition, the item(s) and/or service(s) offered above meet all specifications contained herein or attached, unless otherwise stipulated by exception. This offer to sell/provide is firm for ninety (90) days."

(Signature of Bidder—Ink)

(Printed Name and Title)

(Business Name)

Receipt of Addendum No. _____ through No. _____ is acknowledged.

Business Name: _____
(The Name on File with the Internal Revenue Service)

Doing Business as (Fictitious Name): _____

Business Organization:

☐ Corporation:

☐ Partnership: ☐ General ☐ Limited

☐ Limited Liability Company (LLC):

State Registered In: _____ Year: _____

☐ Sole Proprietorship: Owner: _____

☐ Other: _____

Telephone: _____

Facsimile: _____

Address: _____

Date: _____, _____