



**Request for Proposal
RFP-4267-16-DH**

**NEW DATA CENTER SERVER CABINETS
AND COLD AISLE CONTAINMENT FOR
NEW CITY HALL I.T. SERVER ROOM
PROJECT**

RESPONSES DUE:

July 18, 2016 prior to 3:30 PM Local

Accepting Electronic Responses Only

**Responses Only Submitted Through the Rocky Mountain E-Purchasing
System (RMEPS)**

<https://www.rockymountainbidsystem.com/default.asp>

(Purchasing Representative does not have access or control of the vendor side of RMEPS.
If website or other problems arise during response submission, vendor **MUST** contact
RMEPS to resolve issue prior to the response deadline. 800-835-4603)

PURCHASING REPRESENTATIVE:

Duane Hoff Jr., Senior Buyer

duaneh@gjcity.org

970-244-1545

This solicitation has been developed specifically for a Request for Proposal intended to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction/Mesa County solicitations. All offerors are urged to thoroughly review this solicitation prior to submitting. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

REQUEST FOR PROPOSAL

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REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

- 1.1 Issuing Office:** This Request for Proposal (RFP) is issued by the City of Grand Junction. All contact regarding this RFP shall be directed to:
RFP Questions:
Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org
- 1.2 Purpose:** The purpose of this RFP is to obtain proposals from qualified professional contractors to provide new data center server cabinets and cold aisle containment for the City Hall I.T. Server Room Relocation project.
- 1.3 The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4 Prequalification Requirement: CITY ONLY** Contractors submitting Responses over \$50,000 must be pre-qualified in accordance with the Owner's "*Rules and Procedures for Pre-qualification of Contractors.*" All responses received by the specified time will be opened, but the Owner will reject responses over \$50,000 from contractors who have not been prequalified. Application forms for prequalification are available at the Administration Office of the Department of Public Works and Planning, Owner Hall, 250 North Fifth Street, Room 245. Call 970-256-4126 or 970-244-1555 for additional information. Due to the time required to process applications, *all applications must be submitted no later than two weeks prior to the Response Due Date.* Application link: <http://www.gjOwner.org/PreQualification.aspx>
- 1.5 Mandatory Pre-Proposal Briefing:** A **mandatory** Pre-Proposal Briefing is required by all contractors intending to submit a response to this RFP. Any contractor that does not attend the **mandatory** pre-proposal meeting, either in person or via dial-in conference line, shall not be eligible to submit a response to this RFP. **The pre-proposal briefing shall be held at the City of Grand Junction City Hall Auditorium located at 250, N. 5th Street, Grand Junction, CO on July 7, 2016 at 10:00am.**
- 1.6 Compliance:** All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the Owner omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.
- 1.7 Submission:** Please refer to section 5.0 for what is to be included. **Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>).** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "Electronic

Vendor Registration Guide” at <http://www.gicity.org/BidOpenings.aspx> for details. For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 “Preparation and Submittal of Proposals.” Submittals received that fail to follow this format may be ruled non-responsive. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**)

- 1.8 Altering Proposals:** Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.
- 1.9 Withdrawal of Proposal:** A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.
- 1.10 Addenda:** All Questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the Owner. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.rockymountainbidsystem.com. Offerors shall acknowledge receipt of all addenda in their proposal.
- 1.11 Exceptions and Substitutions:** All proposals meeting the intent of this RFP shall be considered for award. Offerors taking exception to the specifications shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Offeror must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications. The absence of such a list shall indicate that the Offeror has not taken exceptions, and if awarded a contract, shall hold the Offeror responsible to perform in strict accordance with the specifications or scope of work contained herein.
- 1.12 Confidential Material:** All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. **“Proprietary or Confidential Information”** is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly identified with the words **“Confidential Disclosure”** and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the Owner. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary

- 1.13 Response Material Ownership:** All proposals become the property of the Owner upon receipt and shall only be returned to the proposer at the Owner's option. Selection or rejection of the proposal shall not affect this right. The Owner shall have the right to use all ideas or adaptations of the ideas contained in any proposal received in response to this RFP, subject to limitations outlined in the section titled "Confidential Material". Disqualification of a proposal does not eliminate this right.
- 1.14 Minimal Standards for Responsible Prospective Offerors:** A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements:
- Have adequate financial resources, or the ability to obtain such resources as required.
 - Be able to comply with the required or proposed completion schedule.
 - Have a satisfactory record of performance.
 - Have a satisfactory record of integrity and ethics.
 - Be otherwise qualified and eligible to receive an award and enter into a contract with the Owner.
- 1.15 Nonconforming Terms and Conditions:** A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions
- 1.16 Open Records:** All proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offer as such shall be treated as confidential by the Owner to the extent allowable in the Open Records Act.
- 1.17 Sales Tax:** City of Grand Junction/Mesa County is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.
- 1.18 Public Opening:** Proposals shall be opened in the City Hall Auditorium, 250 North 5th Street, Grand Junction, CO 81501, immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

- 2.1. Acceptance of RFP Terms:** A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Cover Letter by the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.

- 2.2. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed by the Owner and Contractor. By executing the contract, the Contractor represents that they have familiarized themselves with the local conditions under which the Work is to be performed, and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the Owner are, and shall remain, Owner property. They are not to be used on any other project.
- 2.3. Permits, Fees, & Notices:** The Contractor shall secure and pay for all permits, fees and licenses necessary for the proper execution and completion of the work. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work. If the Contractor observes that any of the Contract Documents are at variance in any respect, Contractor shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by change order/amendment. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, Contractor shall assume full responsibility and shall bear all costs attributable.
- 2.4. Performance & Payment Bonds:** Contractor shall furnish a Performance and a Payment Bond, each in an amount at least equal to that specified for the contract amount as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents. These bonds shall remain in effect for the duration of the Warranty Period (as specified in the Special Conditions). Contractor shall also furnish other bonds that may be required by the Special Conditions. All bonds shall be in the forms prescribed by the Contract Documents and be executed by such sureties as (1) are licensed to conduct business in the State of Colorado and (2) are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Accounts, U.S. Treasury Department. All bonds signed by an agent must be accompanied by a certified copy of the Authority Act. If the surety on any bond furnished by the Contractor is declared bankrupt, or becomes insolvent, or its rights to do business in Colorado are terminated, or it ceases to meet the requirements of clauses (1) and (2) of this section, Contractor shall within five (5) days thereafter substitute another bond and surety, both of which shall be acceptable to the City.
- 2.5. Liquidated Damages for Failure to Meet Project Completion Schedule: CITY ONLY** If the Contractor does not achieve Final Completion by the required date, whether by neglect, refusal or any other reason, the parties agree and stipulate that the Contractor shall pay liquidated damages to the City for each such day that final completion is late. As provided elsewhere, this provision does not apply for delays caused by the City. The date for Final Completion may be extended in writing by the Owner.

The Contractor agrees that as a part of the consideration for the City's awarding of this Contract liquidated damages in the daily amount of **\$350.00** is reasonable and necessary to pay for the actual damages resulting from such delay. The parties agree that the real costs and injury to the City for such delay include hard to quantify items such as: additional

engineering, inspection and oversight by the City and its agents; additional contract administration; inability to apply the efforts of those employees to the other work of the City; perceived inefficiency of the City; citizens having to deal with the construction and the Work, rather than having the benefit of a completed Work, on time; inconvenience to the public; loss of reputation and community standing for the City during times when such things are very important and very difficult to maintain.

The Contractor must complete the Work and achieve final completion included under the Bid Schedule in the number of consecutive calendar days after the City gives its written Notice to Proceed. When the Contractor considers the entire Work ready for its intended use, Contractor shall certify in writing that the Work is substantially complete. In addition to the Work being substantially complete, Final Completion date is the date by which the Contractor shall have fully completed all clean-up, and all items that were identified by the City in the inspection for final completion. Unless otherwise stated in the Special Conditions, for purposes of this liquidated damages clause, the Work shall not be finished and the Contract time shall continue to accrue until the City gives its written Final Acceptance.

If the Contractor shall fail to pay said liquidated damages promptly upon demand thereof after having failed to achieve Final Completion on time, the City shall first look to any retainage or other funds from which to pay said liquidated damages; if retainage or other liquid funds are not available to pay said liquidated damages amounts, the Surety on the Contractor's Performance Bond and Payment Bond shall pay such liquidated damages. In addition, the City may withhold all, or any part of, such liquidated damages from any payment otherwise due the Contractor.

Liquidated damages as provided do not include any sums to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. Should the City incur additional costs because of delays or extensions to other contracts resulting from the Contractor's failure of timely performance, the Contractor agrees to pay these costs that the City incurs because of the Contractor's delay, and these payments are separate from and in addition to any liquidated damages.

The Contractor agrees that the City may use its own forces or hire other parties to obtain Substantial or Final Completion of the work if the time of completion has elapsed and the Contractor is not diligently pursuing completion. In addition to the Liquidated Damages provided for, the Contractor agrees to reimburse the City for all expenses thus incurred.

- 2.6. Retention:** The Owner will deduct money from the partial payments in amounts considered necessary to protect the interest of the Owner and will retain this money until after completion of the entire contract. The amount to be retained from partial payments will be five (5) percent of the value of the completed work, and not greater than five (5) percent of the amount of the Contract. When the retainage has reached five (5) percent of the amount of the Contract no further retainage will be made and this amount will be retained until such time as final payment is made.
- 2.7. Responsibility for those Performing the Work:** The Contractor shall be responsible to the Owner for the acts and omissions of all their employees and all other persons performing any of the work under a contract with the Contractor.

- 2.8. Use of the Site:** The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the site with any materials or equipment.
- 2.9. Cleanup:** The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by their operations. At the completion of work they shall remove all their waste materials and rubbish from and about the project, as well as all their equipment and surplus materials.
- 2.10. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the work under the Contract Documents. Upon receipt of written notice that the work is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when Owner finds the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates, prepared by the Contractor, of the value of Work performed and materials placed in accordance with the Contract Documents.
- 2.11. Protection of Persons & Property:** The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the work, or in consequence of the non-execution thereof by the Contractor, they shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.
- 2.12. Changes in the Work:** The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the contract documents. A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time.
- 2.13. Minor Changes in the Work:** The Owner shall have authority to order minor changes in the work not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.
- 2.14. Uncovering & Correction of Work:** The Contractor shall promptly correct all work found by the Owner as defective or as failing to conform to the contract documents. The Contractor shall bear all costs of correcting such rejected work, including the cost of the

Owner's additional services thereby made necessary. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner.

- 2.15. Acceptance Not Waiver:** The Owner's acceptance or approval of any work furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his work. The Owner's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.
- 2.16. Change Order/Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders/amendments to the contract shall be made in writing by the Owner Purchasing Division.
- 2.17. Assignment:** The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the Owner.
- 2.18. Compliance with Laws:** Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.
- 2.19. Debarment/Suspension:** The Contractor hereby certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.
- 2.20. Confidentiality:** All information disclosed by the Owner to the Contractor for the purpose of the work to be done or information that comes to the attention of the Contractor during the course of performing such work is to be kept strictly confidential.
- 2.21. Conflict of Interest:** No public official and/or Owner employee shall have interest in any contract resulting from this RFP.
- 2.22. Contract:** This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute a contract equally binding between the Owner and Offeror. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.
- 2.23. Project Manager/Administrator:** The Project Manager, on behalf of the Owner, shall render decisions in a timely manner pertaining to the work proposed or performed by the Offeror. The Project Manager shall be responsible for approval and/or acceptance of any related performance of the Scope of Work.

- 2.24. Cancellation of Solicitation:** Any solicitation may be canceled by the Owner or any solicitation response by a vendor may be rejected in whole or in part when it is in the best interest of the Owner.
- 2.25. Contract Termination:** This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.
- 2.26. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Offeror, by submitting a Proposal, agrees to the following conditions:
- 2.26.1.** The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- 2.26.2.** The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.
- 2.26.3.** Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- 2.27. Immigration Reform and Control Act of 1986 and Immigration Compliance:** The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien workers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).
- 2.28. Ethics:** The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.29. Failure to Deliver:** In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.
- 2.30. Failure to Enforce:** Failure by the Owner 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 the Owner to enforce any provision at any time in accordance with its terms.

- 2.31. Force Majeure:** The Offeror 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 Offeror, unless otherwise specified in the contract.
- 2.32. Indemnification:** Offeror shall defend, indemnify and save harmless the Owner and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Offeror, or of any Offeror's agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.33. Independent Firm:** The Offeror shall be legally considered an Independent Firm and neither the Firm nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Firm, its servants, or agents. The Owner shall not withhold from the contract payments to the Firm any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- 2.34. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.35. Oral Statements:** No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.
- 2.36. Patents/Copyrights:** The Offeror agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Offeror for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this RFP.
- 2.37. Remedies:** The Offeror and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- 2.38. Venue:** Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.
- 2.39. Expenses:** Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and can not be charged to the Owner.
- 2.40. Sovereign Immunity:** The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.

- 2.41. Public Funds/Non-Appropriation of Funds:** Funds for payment have been provided through the Owner's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated Owner's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.42. Collusion Clause:** Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The Owner may or may not, at the discretion of the Owner Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.
- 2.43. Contingency/Force Account:** Contingency/Force Account work will be authorized by the Owner's Project Manager and is defined as minor expenses to cover miscellaneous or unforeseen expenses related to the project. The expenses are not included in the Drawings, Specifications, or Scope of Work and are necessary to accomplish the scope of this contract. Contingency/Force Account Authorization will be directed by the Owner through an approved form. Contingency/Force Account funds are the property of the Owner and any Contingency/Force Account funds, not required for project completion, shall remain the property of the Owner. Contractor is not entitled to any Contingency/Force Account funds that are not authorized by Owner.
- 2.44. Gratuities:** The Contractor certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Contractor breaches or violates this warranty, the Owner may, at their discretion, terminate this contract without liability to the Owner.
- 2.45. OSHA Standards:** All Offerors agree and warrant that services performed in response to this invitation shall conform to the standards declared by the US Department of Labor under the Occupational Safety and Health Act of 1970 (OSHA). In the event the services do not conform to OSHA Standards, the Owner may require the services to be redone at no additional expense to the Owner.
- 2.46. Performance of the Contract:** The Owner reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the Owner in the event of breach or default of resulting contract award.
- 2.47. Benefit Claims:** The Owner shall not provide to the Contractor any insurance coverage or other benefits, including Worker's Compensation, normally provided by the Owner for its employees.
- 2.48. Default:** The Owner reserves the right to terminate the contract immediately in the event the Contractor fails to meet delivery or completion schedules, or otherwise perform in accordance with the accepted proposal. Breach of contract or default authorizes the Owner

to purchase like services elsewhere and charge the full increase in cost to the defaulting Contractor.

2.49. Multiple Offers: Proposers must determine for themselves which product or service to offer. If said proposer chooses to submit more than one offer, THE ALTERNATE OFFER must be clearly marked "Alternate Proposal". The Owner reserves the right to make award in the best interest of the Owner.

2.50. Cooperative Purchasing: Purchases as a result of this solicitation are primarily for the Owner. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the Owner. It does not include quantities for any other jurisdiction. The Owner will be responsible only for the award for our jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The Owner accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.

2.51. Definitions:

2.51.1. "Offeror" and/or "Proposer" refers to the person or persons legally authorized by the Consultant to make an offer and/or submit a response (fee) proposal in response to the Owner's RFP.

2.51.2. The term "Work" includes all labor, materials, equipment, and/or services necessary to produce the requirements of the Contract Documents.

2.51.3. "Contractor" is the person, organization, firm or consultant identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Work, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence work without clarifying Drawings, Specifications, or Interpretations.

2.51.4. "Sub-Contractor" is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.

2.52. Public Disclosure Record: If the Proposer has knowledge of their employee(s) or sub-proposers having an immediate family relationship with an Owner employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the Owner.

2.53. Keep Jobs in Colorado Act: Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a). If Contractor claims it is entitled to a waiver pursuant to C.R.S. §8-17-101(1), Contractor shall state that there is insufficient Colorado labor to perform the work such that compliance with Article 17 would create an undue burden that would substantially prevent a project from proceeding to completion, and shall include evidence demonstrating the insufficiency and undue burden in its response.

Unless expressly granted a waiver by the Owner pursuant to C.R.S. §8-17-101(1), Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a).

2.53.1. "Public Works project" is defined as:

- (a) any construction, alteration, repair, demolition, or improvement of any land, building, structure, facility, road, highway, bridge, or other public improvement suitable for and intended for use in the promotion of the public health, welfare, or safety and any maintenance programs for the upkeep of such projects
- (b) for which appropriate or expenditure of moneys may be reasonably expected to be \$500,000.00 or more in the aggregate for any fiscal year
- (c) except any project that receives federal moneys.

SECTION 3.0: INSURANCE REQUIREMENTS

Insurance Requirements: The selected Contractor agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Contractor pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Contractor shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types. Contractor shall procure and maintain and, if applicable, shall cause any Subcontractor of the Contractor to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to the Owner. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise:

(a) Worker Compensation: Contractor shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.

(b) General Liability insurance with minimum limits of:

ONE MILLION DOLLARS (\$1,000,000) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) per job aggregate.

The policy shall be applicable to all premises and operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground hazards. The policy shall contain a severability of interests provision.

(c) Comprehensive Automobile Liability insurance with minimum limits for bodily injury and property damage of not less than:

ONE MILLION DOLLARS (\$1,000,000) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) aggregate

(d) Professional Liability & Errors and Omissions Insurance policy with a minimum of:

ONE MILLION DOLLARS (\$1,000,000) per claim

This policy shall provide coverage to protect the contractor against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

With respect to each of Contractors owned, hired, or non-owned vehicles assigned to be used in performance of the Work. The policy shall contain a severability of interests provision. The policies required by paragraph (b) above shall be endorsed to include the Owner, and the Owner's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by Bidder. No additional insured endorsement to any required policy shall contain any exclusion for bodily injury or property damage arising from completed operations. The Bidder shall be solely responsible for any deductible losses under any policy required above.

SECTION 4.0: SPECIFICATIONS/SCOPE OF SERVICES

4.1. General/Background: The City of Grand Junction is in the process of moving its primary data center to a new location within the same building. As part of the process, new rack/cabinet enclosures and a cold aisle containment system will be installed in the new data center to hold the equipment.

The City has designed the room with 2 rows of cabinets to house servers, patch panels and other equipment. The HVAC system for the room was designed by a mechanical engineer using a cold aisle containment architecture. It will consist of 4 CRAC Units. A fire suppression system was also designed by a mechanical engineer and fire suppression engineer based on a cold aisle containment system. The mechanical engineer has designed the system for 1 additional CRAC unit and 1 additional enclosure to be added to the end of each row for future expansion.

HVAC and Fire Suppression systems will not be part of this this RFP but must be incorporated into the final design of the cabinets and containment system.

4.2. Special Conditions/Provisions:

4.2.1 **Pricing:** Pricing shall be all inclusive to include but not be limited to: all labor, equipment, supplies, materials, freight (F.O.B. Destination – Freight Pre-paid and Allowed to each site), travel, mobilization costs, fuel, set-up and take down costs, and full-time inspection costs, and all other costs related to the successful completion of the project.

The Owner shall not pay nor be liable for any other additional costs including but not limited to: taxes, shipping charges, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.

4.2.2 Contractor must meet all federal, state, and local rules, regulations, and requirements for providing such services.

4.2.3 **Licenses and Permits:** Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.10. Contractor shall supply to Owner all copies of finalized permits.

4.2.4 **Contractor Staging Area:** Awarded Contractor shall coordinate with Owner for proposed project staging area (if required).

4.2.5 **Freight/Shipping:** All freight/shipping shall be F.O.B. Destination – Freight Pre-Paid and Allowed to City Hall, 250 N. 5th Street, Grand Junction, CO.

4.2.6 **Equipment/Product/Materials Quantities:** Contractor shall be responsible for determining all measurements for correctness, and all quantities of equipment/products/materials required for successful project completion.

4.2.7 **Working Schedule:** Monday-Friday 7:00am-5:30pm, however, the City is open to Contractor working evening and weekends, if desired. Any additional work schedule changes shall be coordinated with the City's Project Manager.

4.2.8 **Project Schedule:** 7 calendar days from receipt of Notice to Proceed. Note: Equipment lead time for order and delivery shall not count toward the 7 calendar days.

4.2.9 **Project Location:** City of Grand Junction, City Hall, 250 N. 5th Street, Grand Junction, CO.

4.2.10 **Contract:** A binding contract shall consist of: (1) the RFP and any amendments thereto, (2) the bidder's response (bid) to the RFP, (3) clarification of the bid, if any, and (4) the City's Purchasing Department's acceptance of the bid by "Notice of Award". All Exhibits and Attachments included in the RFP shall be incorporated into the contract by reference.

A. The contract expresses the complete agreement of the parties and, performance shall be governed solely by the specifications and requirements contained therein.

B. Any change to the contract, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the bidder and the City Purchasing Division or by a modified

Purchase Order prior to the effective date of such modification. The bidder expressly and explicitly understands and agrees that no other method and/or no other document, including acts and oral communications by or from any person, shall be used or construed as an amendment or modification to the contract.

4.3. Specifications/Scope of Services:

- 2 rows of cabinets containing 8 cabinets per row for a total of 16 cabinets.
- Vendor must Install cabinets and the cold aisle containment system.
- Each row will have panels installed on the end cabinets to seal the rows.

- There will be 2 CRAC units in each row, installed 2 cabinet slots from each end. The vendor will connect the CRAC units to the cabinets. See attached diagram.

- CRAC units are Liebert CRV and must be connected to the cabinets provided through this RFP by the vendor's Cabinet Installer.
CRAC Units will be supplied by the HVAC vendor. See attached Spec Sheet.

- Cabinets must be 30" wide, 45U in height, and no more than 48" deep.
- Cabinets must be set to 19" standard rack width for equipment and use a square hole mounting system for equipment mounting.
- Front and rear doors must be ventilated doors.
- Doors must have combination locks.
- Cabinets must have a vertical ground bus bar. (Grounding from each cabinet to the building grounding system will be contracted to an electrician after completion of assembly).
- Cabinets must be able to support the mounting of up to 4 vertical PDUs (up to 2 on each side) similar to the APC AP7862 PDU.
- Provide a separate list of optional features, including descriptions, that can be added to the enclosure to enhance its functionality as new features are needed to support additional operational requirements.

Cold Aisle Containment for enclosures:

- Both ends of the cabinets' cold row will have a door(s) that will auto close.
- Door(s) should open to the full width of the cold aisle.
- Door should preferably have a soft close operation.
- Containment panel roofing will rise a minimum of 12 inches above the cabinet roofs.
- Containment vertical panels should accommodate different height cabinets as the CRAC unit cabinets may be shorter than the vendor supplied cabinets.
- Panels and doors must be transparent.
- Containment system must have either internal lighting or allow adequate room light into the cold row so that staff can work on equipment without the need of additional portable lighting.
- Containment system must fully seal cold aisle.
- Containment system panels will leave full access to cabinet roof top access panels outside of the containment system.
- Containment system must accommodate a Clean Agent Fire Suppression System

Discharge nozzle for a Novac 1230 type system. (Fire Suppression system nozzle will be installed by the Fire Suppression Installation Vendor in conjunction with the selected vendor from this RFP).

- Containment system must be rated to withstand a Novac 1230 type Clean Agent fire suppression system discharge without damage to the containment system.

4.4. Mandatory Pre-Proposal Briefing: A **mandatory** Pre-Proposal Briefing is required by all contractors intending to submit a response to this RFP. Any contractor that does not attend the **mandatory** pre-proposal meeting, either in person or via dial-in conference line, shall not be eligible to submit a response to this RFP. **The pre-proposal briefing shall be held at the City of Grand Junction City Hall Auditorium located at 250, N. 5th Street, Grand Junction, CO on July 7, 2016 at 10:00am.**

Attendance may be in person or via a dial-in conference line at 970-255-2231. For those attending the pre-proposal briefing in person, a site visit will be offered after the briefing, if desired.

4.5. RFP Tentative Time Schedule:

- | | |
|--|--|
| • Request for Proposal available | June 29, 2016 |
| • Mandatory Pre-Bid | July 7, 2016 |
| • Inquiry deadline, no questions after this date | July 11, 2016 |
| • Addendum Posted | July 13, 2016 |
| • Submittal deadline for proposals | July 18, 2016 |
| • Owner evaluation of proposals | July 19 – 25, 2016 |
| • Interviews, if required | July 27, 2016 |
| • Final selection | July 29, 2016 |
| • City Council Approval | August 17, 2016 |
| • Contract execution | August 18, 2016 |
| • Work begins no later than | Upon Receipt of Notice to Proceed |
| • Final Completion | 7 Calendar Days from Notice to Proceed |

4.6. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
Email@gjcity.org

SECTION 5.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>). This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.) Please view our “**Electronic Vendor Registration Guide**” at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline; **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed. Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the Owner requires that proposals be formatted **A to F**.

- A. Cover Letter:** Cover letter shall be provided which explains the Firm’s interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm's principal contact person with Owner’s Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. By submitting a response to this solicitation the Contractor agrees to all requirements herein.
- B. Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a contract provider to the City of Grand Junction/Mesa County and include prior experience in similar projects.
- C. Strategy and Implementation Plan:** Describe your (the firm’s) interpretation of the Owner’s objectives with regard to this RFP. Describe the proposed strategy and/or plan for achieving the objectives of this RFP. The Firm may utilize a written narrative or any other printed technique to demonstrate their ability to satisfy the Scope of Services. The narrative should describe a logical progression of tasks and efforts starting with the initial steps or tasks to be accomplished and continuing until all proposed tasks are fully described and the RFP objectives are accomplished. Include a **time schedule** for completion of your firm’s implementation plan and an estimate of time commitments from Owner staff. Include **all design drawings** showing your designs.
- D. References:** A minimum of three (3) **references** with name, address, telephone number, and email address that can attest to your experience in projects of similar scope and size.
- E. Fee Proposal:** Provide a complete list of costs using Solicitation Response Form found in Section 7.
- F. Additional Data (optional):** Provide any additional information that will aid in evaluation of your qualifications with respect to this project (See Section 6.2, paragraph titled “Additional Award Consideration for This Project” for addition information to be included with your proposal.

SECTION 6.0: EVALUATION CRITERIA AND FACTORS

- 6.1 Evaluation:** An evaluation team shall review all responses and select the proposal or proposals that best demonstrate the capability in all aspects to perform the scope of services and possess the integrity and reliability that will ensure good faith performance.
- 6.2 Intent:** Only respondents who meet the qualification criteria will be considered. Therefore, it is imperative that the submitted proposal clearly indicate the firm's ability to provide the services described herein.

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The Owner reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (in no particular order of priority):

- Responsiveness of submittal to the RFP
- Understanding of the project and the objectives
- Experience & Required Skills
- Strategy & Implementation Plan
- References
- Fees

Additional Award Consideration for This Project: In addition to the outlined specifications, and the above mentioned criteria, additional award consideration for this project will also include: ongoing annual support and maintenance costs, product life cycle, the ability to add additional options as needed on a per enclosure basis, and overall design.

Owner also reserves the right to take into consideration past performance of previous awards/contracts with the Owner of any vendor, contractor, supplier, or service provider in determining final award(s).

The Owner will undertake negotiations with the top rated firm and will not negotiate with lower rated firms unless negotiations with higher rated firms have been unsuccessful and terminated.

- 6.3 Oral Interviews:** The Owner may invite the most qualified rated proposers to participate in oral interviews.
- 6.4 Award:** Firms shall be ranked or disqualified based on the criteria listed in Section 6.2. The Owner reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the project Contractor.

SECTION 7.0: SOLICITATION RESPONSE FORM

RFP-4267-16-DH “New Data Center Server Cabinets and Cold Aisle Containment for New City Hall I.T. Server Room Project”

Offeror must submit entire Form completed, dated and signed.

1) Total cost to provide all labor, parts, supplies, equipment and installation necessary for the New Data Center Server Cabinets and Cold Aisle Containment for New City Hall I.T. Server Room Project per the solicitation documents:

TOTAL COST \$ _____

WRITTEN: _____ **dollars.**

The Owner reserves the right to accept any portion of the work to be performed at its discretion

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror’s proposal attached hereto; as accepted by the Owner.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice. Payment Terms _____.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: _____.

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

Company Name – (Typed or Printed)

Authorized Agent – (Typed or Printed)

Authorized Agent Signature

Phone Number

Address of Offeror

E-mail Address of Agent

City, State, and Zip Code

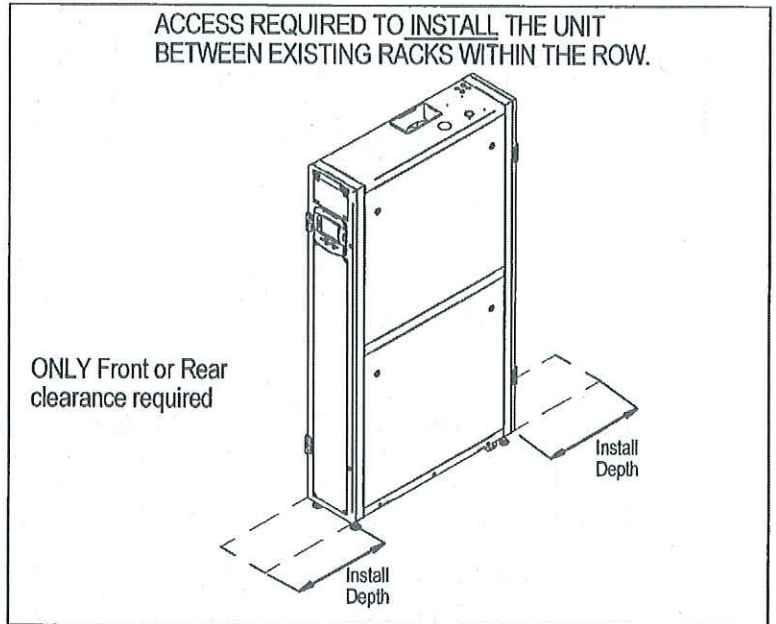
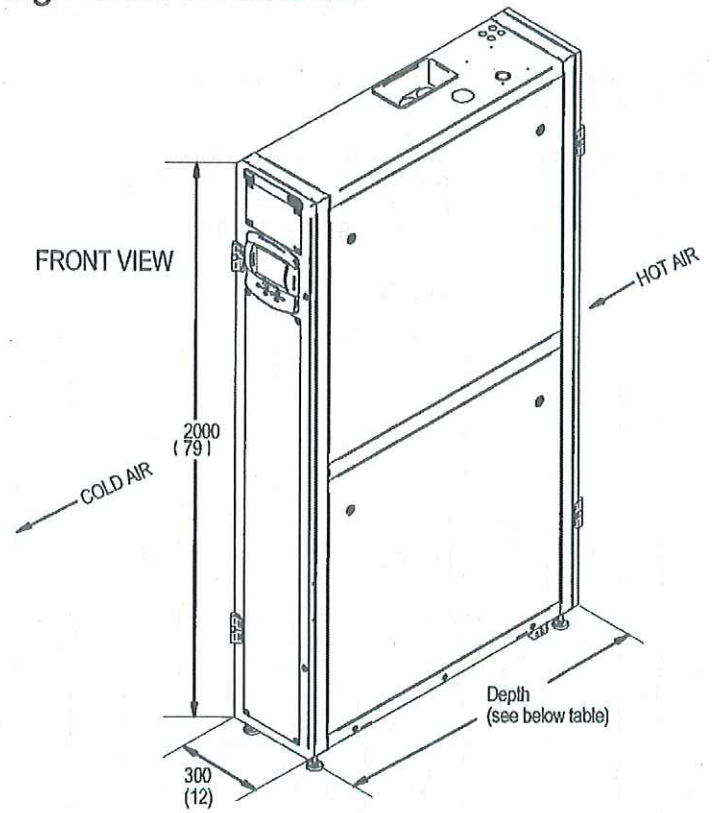
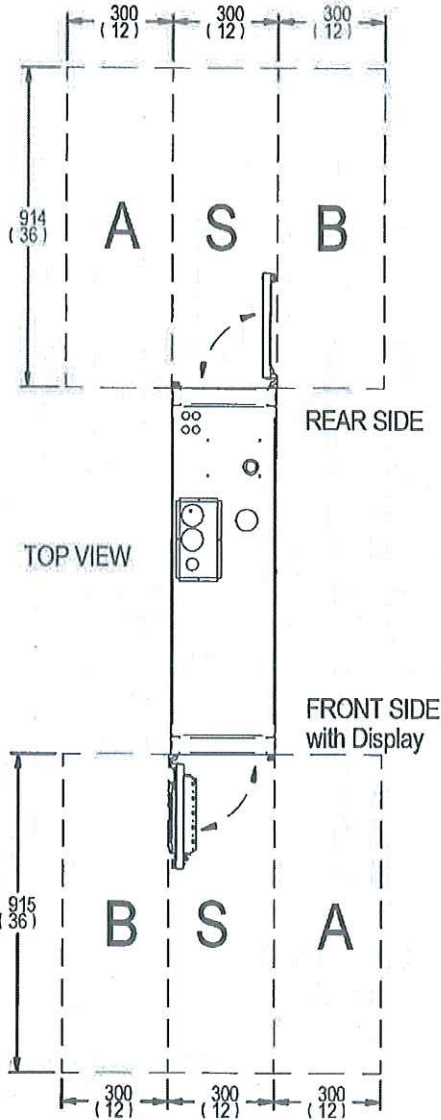
Date

LIEBERT CRV

300mm (12in)

Cabinet / Floor Planning Dimensional Data

ACCESS REQUIRED TO SERVICE THE UNIT
BETWEEN EXISTING RACKS WITHIN THE ROW
Service area is S+A+B



Cooling System	Height, mm (in)	Depth, mm (in)	Install Depth, mm (in)	Dry Weight, +/- 5% kg (lbs)
AIR	2,000 (78.7)	1,100 (43.3)	1,250 (49.2)	230 (507)
WTR/GLY				247 (545)
CW				190 (418)

All dimensions are mm Primary and (in) Secondary unless otherwise noted.

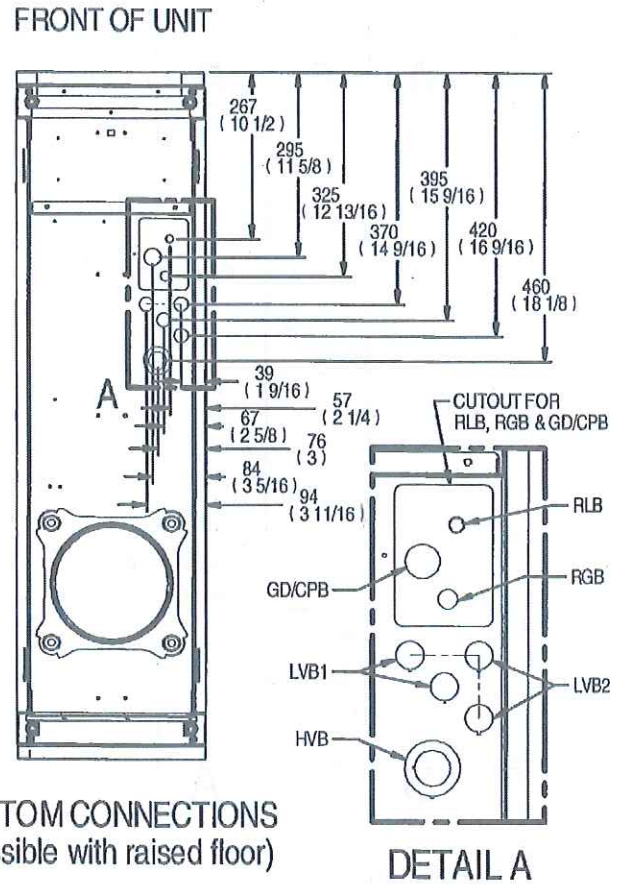
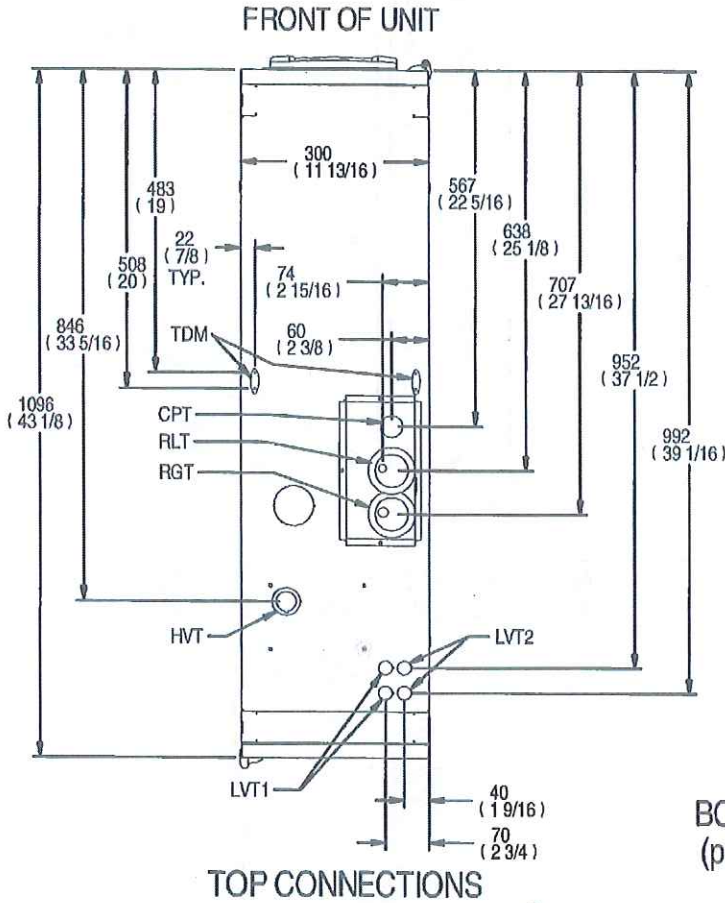
LIEBERT CRV

300mm (12in)

CONNECTIONS: AIR COOLED MODELS

PIPING AND ELECTRICAL CONNECTIONS AVAILABLE AT THE TOP AND BOTTOM OF UNIT.

ATTENTION, AIR COOLED SYSTEMS MAY REQUIRE ADDITIONAL OIL TO BE ADDED IN THE FIELD IN ORDER TO ALLOW FOR SUFFICIENT COMPRESSOR LUBRICATION. SEE UNIT USER MANUAL FOR DETAILS.



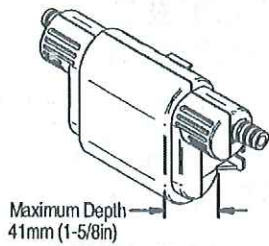
All dimensions are mm primary and (inches secondary) unless otherwise specified.

UNIT TOP CONNECTIONS		CR19 (60Hz)	UNIT BOTTOM CONNECTIONS		CR19 (60Hz)
RLT	Refrigerant Liquid Line Inlet	1/2" O.D. Copper Sweat	RLB	Refrigerant Liquid Line Inlet	1/2" O.D. Copper Sweat
RGT	Refrigerant Gas Line Outlet	5/8" O.D. Copper Sweat	RGB	Refrigerant Gas Line Outlet	5/8" O.D. Copper Sweat
CPT	Condensate Pump	Knockout Hole Diameter 35 mm (1-3/8")	GD	Gravity Coil Pan Drain	Knockout Hole Diameter 44 mm (1-3/4")
HVT	High Voltage Top Connection	Combination Knockout 29 mm (1-1/8") & 44 mm (1-3/4")	CPB	Condensate Pump	
LVT1	Low Voltage Top Connection (Twisted Pair)	Knockout Hole Diameter 22 mm (7/8") 2 places	HVB	High Voltage Bottom Entrance (feed through the base of the unit)	Combination Knockout 29 mm (1-1/8") & 44 mm (1-3/4")
LVT2	Low Voltage Top Connection (Shielded Cable)	Knockout Hole Diameter 22 mm (7/8") 2 places	LVB1	Low Voltage Bottom Connection (Twisted Pair)	Knockout Hole Diameter 22 mm (7/8") 2 places
TDM	Tie Down (Top) Mounting	Hole Diameter 3 mm (1/8") 4 places	LVB2	Low Voltage Bottom Connection (Shielded Cable)	Knockout Hole Diameter 22 mm (7/8") 2 places

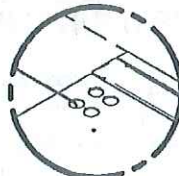
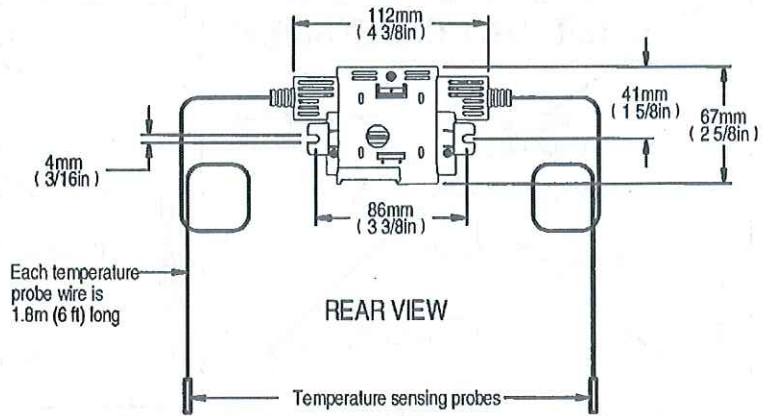
LIEBERT CRV

300mm (12in)

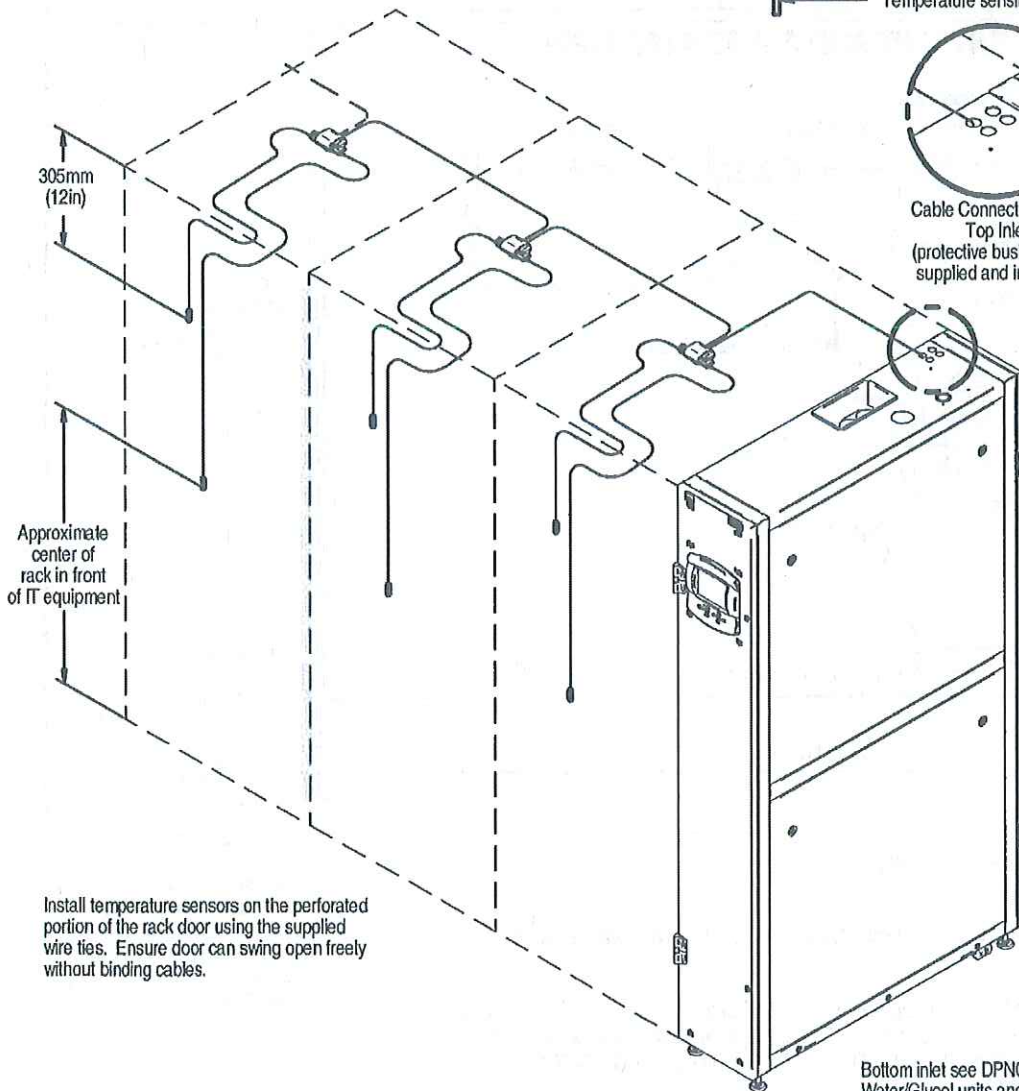
2T Rack Temperature Sensor Connections



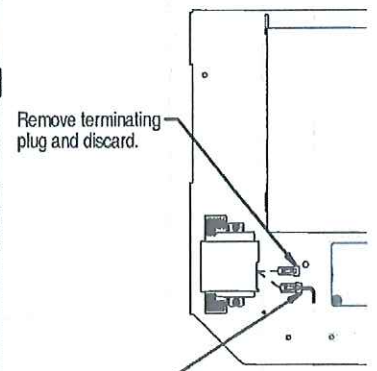
FRONT VIEW



Cable Connection Entry
Top Inlet
(protective bushing field
supplied and installed)



Install temperature sensors on the perforated portion of the rack door using the supplied wire ties. Ensure door can swing open freely without binding cables.

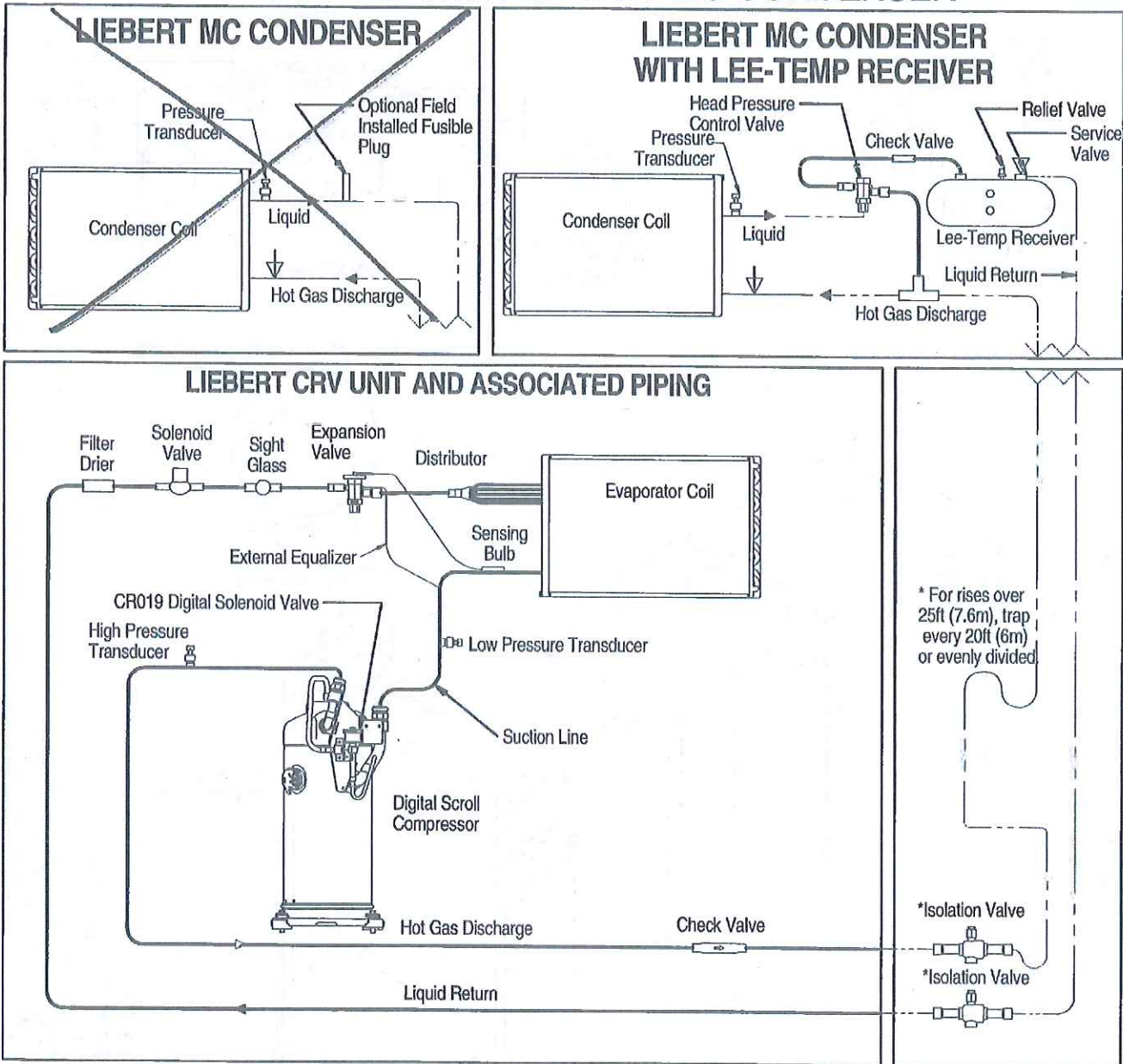


Return air temperature sensor located in the rear of the unit.

Bottom inlet see DPN002813 for Air, DPN003040 for Water/Glycol units and DPN002815 for Chilled Water units (protective bushing field supplied and installed).

LIEBERT CRV 300mm (12in)

GENERAL ARRANGEMENT DIAGRAM AIR COOLED WITH LIEBERT MC CONDENSER



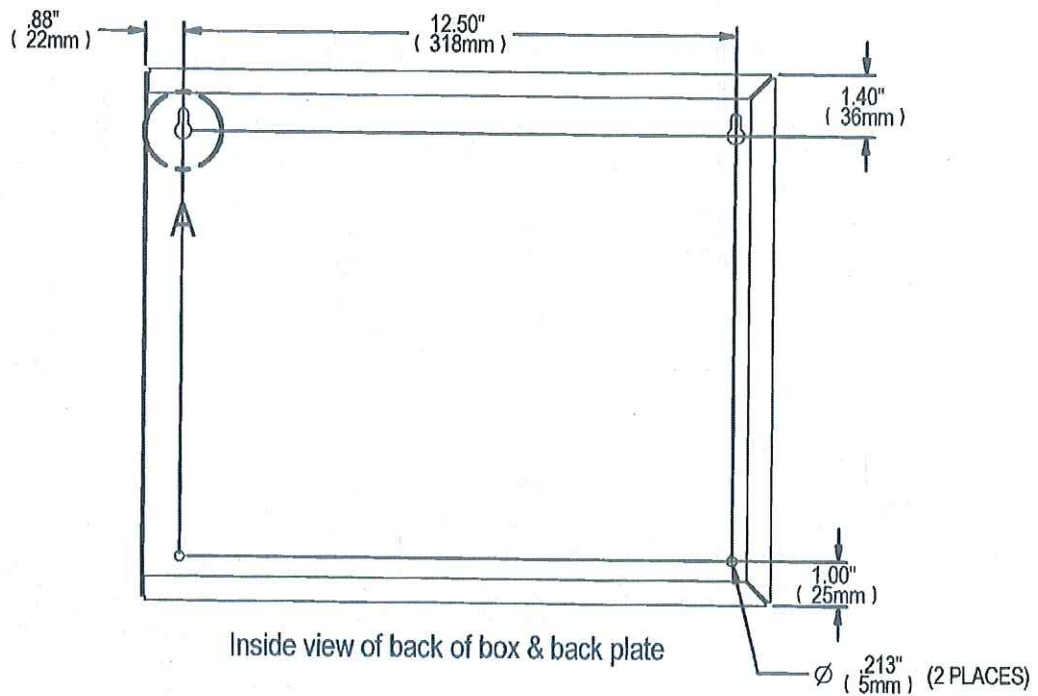
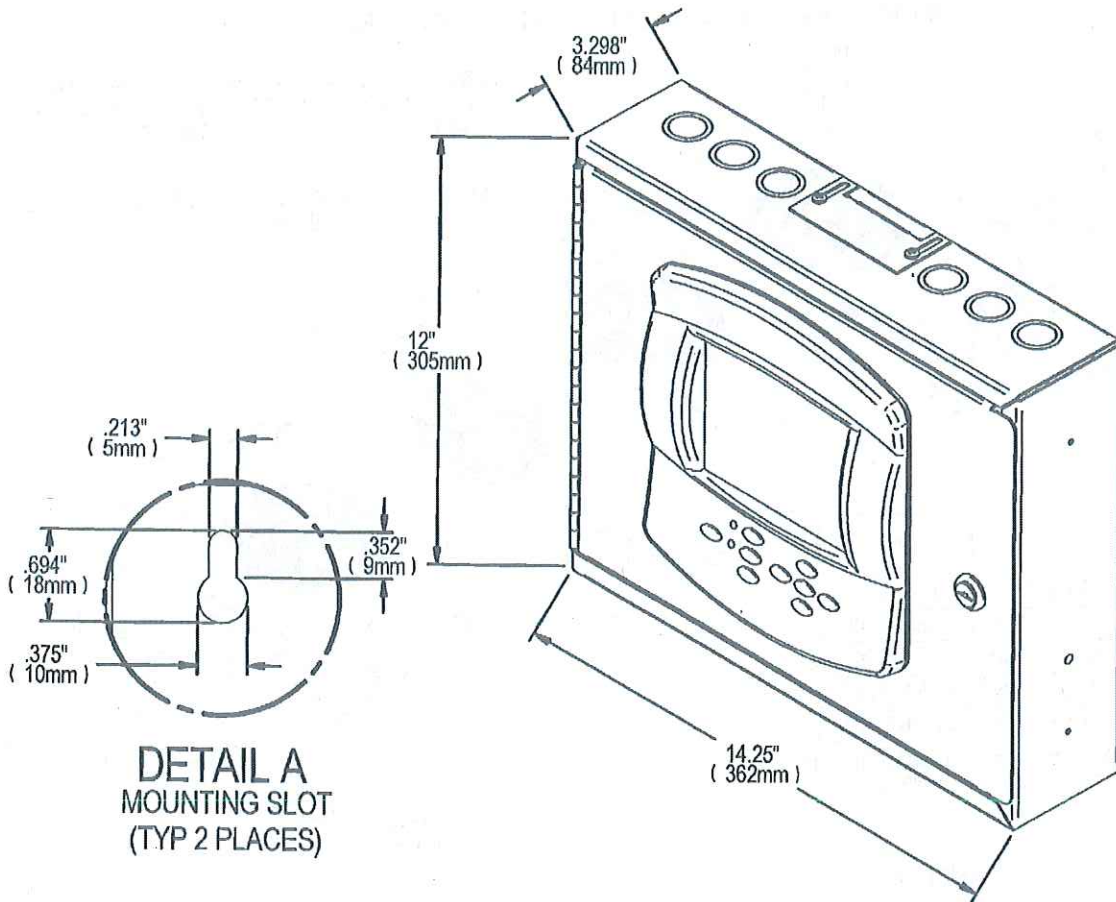
————— FACTORY REFRIGERANT PIPING
 - - - - - FIELD PIPING
 ↓ SERVICE / SCHRADER (ACCESS) CONNECTION WITH VALVE CORE

* For rises over 25ft (7.6m), trap every 20ft (6m) or evenly divided
 * Isolation Valve
 * Isolation Valve
 * Components are not supplied by Liebert but are required for proper circuit operation and maintenance. Isolation valves should be located near the indoor Liebert CRV unit.

- NOTES:
1. SCHEMATIC REPRESENTATION SHOWN. DO NOT USE FOR SPECIFIC CONNECTION LOCATIONS.
 2. ONE OR MORE ADDITIONAL PRESSURE RELIEF VALVES ARE REQUIRED DOWNSTREAM OF ANY AND ALL FIELD-INSTALLED ISOLATION. DO NOT ISOLATE ANY REFRIGERANT CIRCUITS FROM OVERPRESSURIZATION PROTECTION.
 3. REFER TO OUTDOOR CONDENSER DOCUMENTS ABOVE FOR PROPER TRAP PLACEMENT.

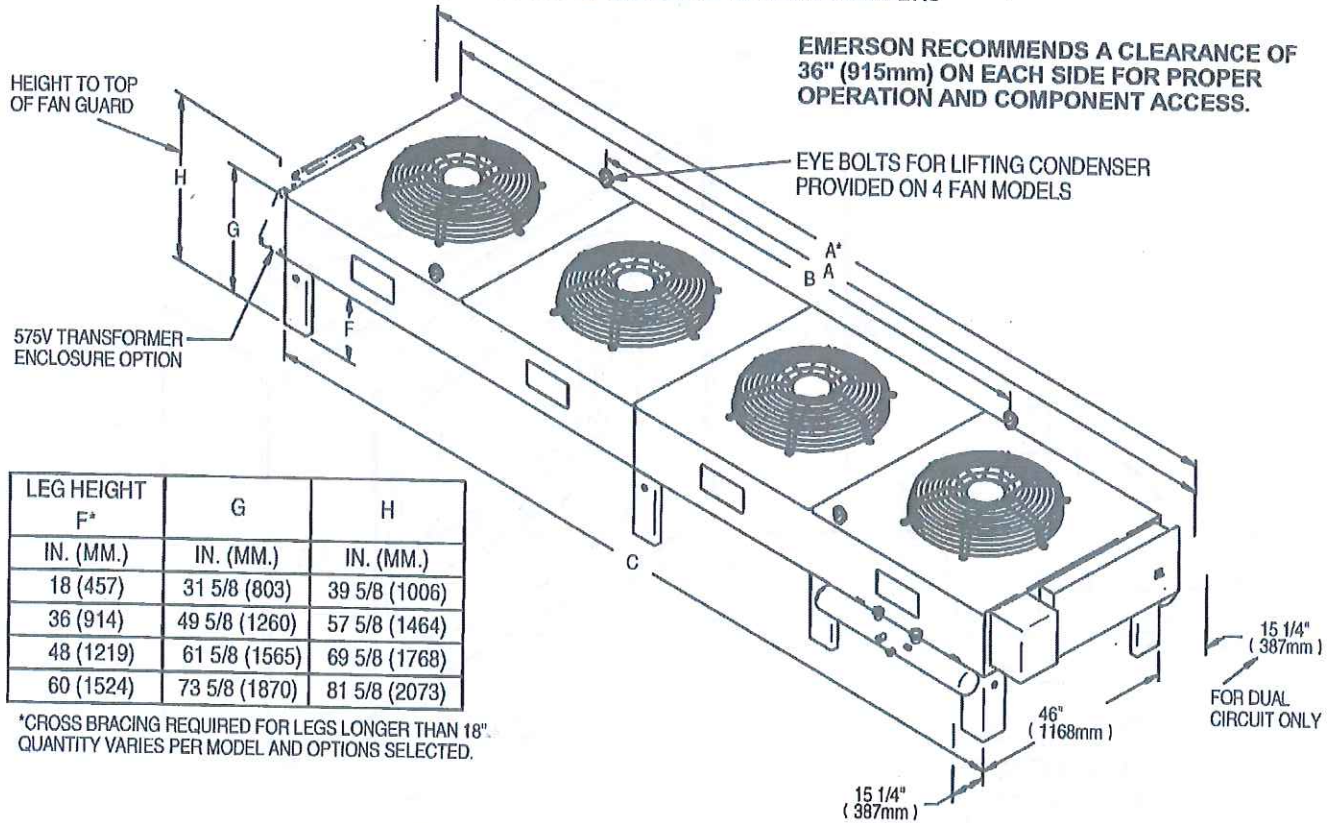
LIEBERT vNSA

Network Switch Assembly with iCOM: Dimensions



LIEBERT MC CABINET & ANCHOR DIMENSIONAL DATA

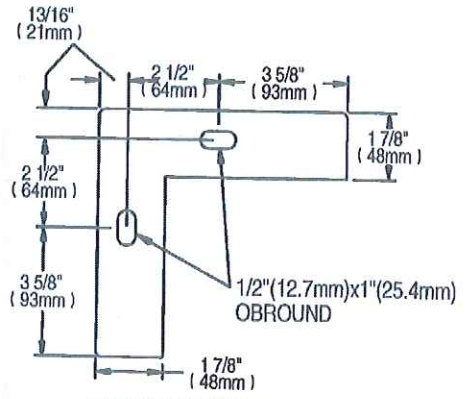
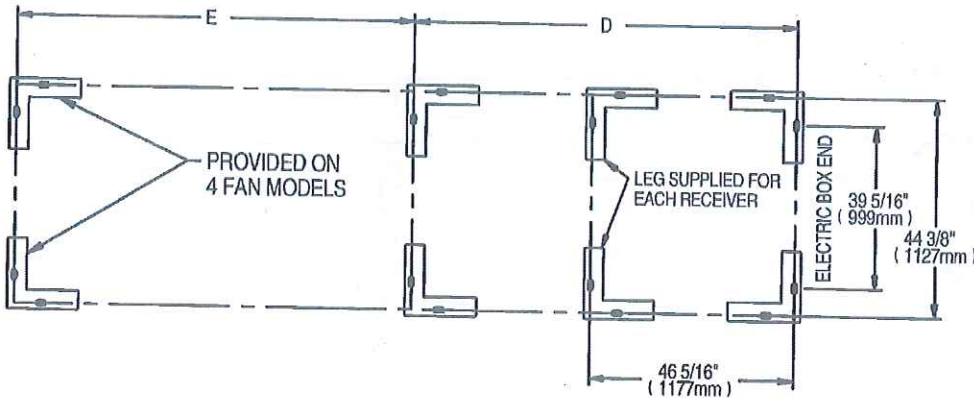
MCM040, MCM080 & MCM160 WITH RECEIVERS



LEG HEIGHT F*	G	H
IN. (MM.)	IN. (MM.)	IN. (MM.)
18 (457)	31 5/8 (803)	39 5/8 (1006)
36 (914)	49 5/8 (1260)	57 5/8 (1464)
48 (1219)	61 5/8 (1565)	69 5/8 (1768)
60 (1524)	73 5/8 (1870)	81 5/8 (2073)

*CROSS BRACING REQUIRED FOR LEGS LONGER THAN 18".
QUANTITY VARIES PER MODEL AND OPTIONS SELECTED.

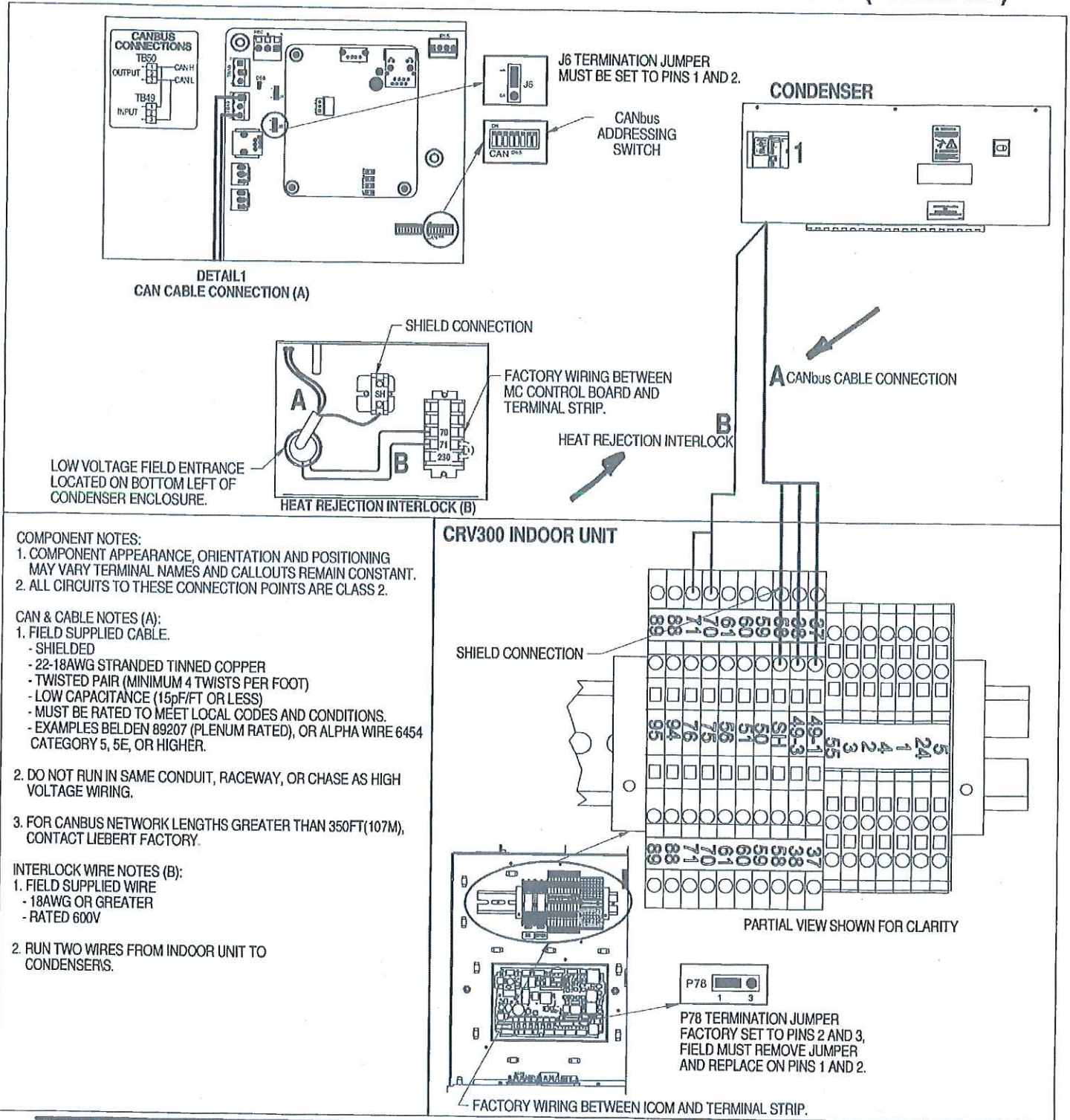
ANCHOR PLAN



TYPICAL FOOTPRINT

LIEBERT MODEL NO.	NO. FANS	A	A* (575V)	B	C	D	E
		IN. (MM.)	IN. (MM.)	IN. (MM.)	IN. (MM.)	IN. (MM.)	IN. (MM.)
MCM040	1	57 3/16 (1453)	65 3/8 (1661)	—	48 (1219)	46 5/16 (1177)	—
MCM080	2	105 1/4 (2674)	113 7/16 (2882)	—	96 1/16 (2440)	94 7/16 (2398)	—
MCM160	4	202 7/16 (5142)	210 5/8 (5350)	113 1/2 (2883)	192 1/4 (4883)	94 7/16 (2398)	96 3/16 (2444)

CANbus & INTERLOCK CONNECTIONS BETWEEN CRV300mm (12in.) & LIEBERT MC CONDENSER (PREMIUM)



Project: Grand Junction
 Date: 2/17/2016
 By: RP
 Spec by: Bighorn Engineering

Computer Room Air Conditioning Schedule

Unit	Rooms	Mfg	Model No.	Capacity (MBH) Total	Sensible	Evaporator CFM	ESP	kW	Sq. Ft	Rows	Humidifier lbs/hr	Reheat kw	Volt	Hz	Ph	FLA	WSA	OPD notes	
CRAC-1, -2, -3, -4		Liebert	CR019RA137	61.2	58.5	2250	0	7.17	6.46	3	na	na	460	60	3	16.8	20	30	1,2,3,4

Notes:
 1) Units are Liebert CRV horizontal flow air cooled systems located within the row, 1' wide, utilizing R410A refrigerant
 2) Capacity rating at 4500' ASL, 105 F ambient, 75F EAT, 30% RH
 3) Units to include 8 filters, digital scroll compressor, no humidifier, no reheat, condensate pump, IS-Unity DP communications card, locking electrical disconnect switch, 5 year compressor warranty, iCom controller, point leak detector, 16 2T sensors (total), Canbus cables (16 total)
 4) Provide (1) vNSA16t controller for interunit communications. Requires 120 Volt, 1 Phase power. Field provide (2) CAT5 or better cables per unit from each CRAC to vNSA8.

Condenser Schedule

Unit	Serves	Mfg	Model No.	Ambient Temp	Electrical Requirements volt	Ph	FLA	WSA	OPD Notes
ACC-1, -2, -3, -4	CRAC-1, -2, -3, -4	Liebert	MCM040E1AD	105	460	3	1.4	1.9	15 1,2,3,4

Notes:
 1) Condensers are microchannel design with lee temp flood back control to -30 degrees F.
 2) Provide separate 120/1 electrical service for (1) 150 Watt receiver heater per condenser
 3) Condenser to be provided with factory disconnect switch
 4) Control wiring (Canbus and 24V) from CR019 to condenser to be field provided



Liebert Rating System

Liebert

Project Name: GJ CR035
Sales Rep. Name: Randall Poet

Office Name: AC Systems, Inc.

Customer Name:
Phone Number: (303) 771-5000

CRV Model CR019RA~MCM040E1; Air Cooled

Manufacturer: Liebert North America	Spec.sheet output date: 28-Jan-16
Unit Power Supply: 460/3/60	Width: 12 in
Refrigerant: R410A	Depth: 43.3 in
Internal Filter Class: Merv 1 Std. - 1/2 inch (12.7mm)	Height: 79 in
Unit Airflow (std. motor): 2250 CFM	Weight: 507 lb
ESP: 0 InH2O	Altitude: 4500 ft

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Condenser(s)	Compressor(s)	Evaporator(s)
Manufacturer: Liebert North America Model: MCM040E1 Condenser Type: MCH Condenser Design Ambient: 105 °F Power Option: 460/3/60	Manufacturer: Copeland Model: ZPD72KCE-60Hz Compressor Type: Digital Power Supply: 460/3/60	Manufacturer: Liebert North America Model: RTCR019Evapx1 Fin Type: Corrugated Number of Rows: 3 Fin Density: 13 1/n Face Area: 6.46 ft² Surface Area: 204.88 ft²

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Miscellaneous	Cooling Fan(s)
Humidifier Type: No Humidifier Bypass airflow: 0 %	Quantity of Fans: 5 Type: EC Plug Fan In the Unit Power Supply: 460/3/60 Quantity of Motors: 5

System: [Digital Loading: 100%, SC: 10 °F, SH: 10 °F]

Ent DB (°F)	Ent WB (°F)	Ent RH (%)	Ent DP (°F)	Unit Air Vol (CFM)	Air Face Vel (ft/min)	Amb DB (°F)	NTCC (kBtu/hr)	NSCC (kBtu/hr)	THR (kBtu/hr)	Cond. Airflow (CFM)	Lvg DB (°F)	Lvg WB (°F)	Tot Comp Pwr (kW)	Sys Power Input (kW)	Sys SCOP (V/W)	Sys NSCOP (W/W)	Fan kW (kW)
75	55.3	30	41.5	2250	349	95	64.4	60.1	64.1	5682	45.5	42.4	5.44	6.55	2.69	2.69	0.51
75	55.3	30	41.5	2250	349	100	62.8	59.3	83.6	5556	45.9	42.8	5.75	6.85	2.54	2.54	0.51
75	55.3	30	41.5	2250	349	105	61.2	58.5	83	5928	46.3	43.1	6.05	7.17	2.39	2.39	0.51

☐

System

Compressor Power (kW)	Sat Discharge Temp. (°F)	Sat. Suction Temp. (°F)
5.44		112.1
5.75		116.8
6.05		121.6

1. Capacity shown has been reduced by fan motor heat (net).