

#### **Purchasing Division**

## INVITATION FOR BID

IFB-4796-20-SH

## **HVAC UPGRADES AVALON THEATRE LOBBY AND STAGE**

## **Responses Due:**

May 19, 2020 prior to 3:00 P.M.

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

https://www.bidnetdirect.com/colorado

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

#### **Purchasing Representative:**

Susan Hyatt, Senior Buyer susanh@gicity.org 970-244-1513

This document has been developed specifically to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All vendors are urged to thoroughly review this solicitation prior to responding. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

## **Invitation for Bids**

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## 1. INSTRUCTIONS TO BIDDERS

1.1. Purpose: The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required to replace the aging AC-5 stage RTU and both lobby split systems in the Avalon Theatre. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

#### **IFB Questions:**

Susan Hyatt, Senior Buyer <a href="mailto:susanh@gjcity.org">susanh@gjcity.org</a>

The City would like to remind all Contractors, Sub-Contractors, Vendors, Suppliers, Manufacturers, Service Providers, etc. that (with the exception of Pre-Bid or Site Visit Meetings) all questions, inquiries, comments, or communication pertaining to any formal solicitation (whether process, specifications, scope, etc.) must be directed (in writing) to the Purchasing Agent assigned to the project, or Purchasing Division. Direct communication with the City assigned Project Managers/Engineers is not appropriate for public procurement, and may result in disqualification.

- 1.2. Pre-Bid Meeting: It is <u>HIGHLY RECOMMENDED</u> prospective bidders attend a pre-bid meeting on <u>May 5, 2020 at 2:00 P.M.</u> Meeting location shall be in the Avalon Theatre, located at 645 Main Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).
- **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. Submission: Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing (BidNet Colorado) website, www.bidnetdirect.com/colorado. The uploaded response shall be a single PDF document with all required information included. 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 <a href="http://www.gjcity.org/business-and-economic-development/bids/">http://www.gjcity.org/business-and-economic-development/bids/</a> 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)
- **1.5.** <u>Modification and Withdrawal of Bids Before Opening.</u> Bids may be modified or withdrawn by an appropriate document stating such, duly executed and submitted to the place where Bids are to be submitted at any time prior to Bid Opening.
- **1.6. Printed Form for Price Bid:** All Price Bids must be made upon the Price Bid Schedule attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.

The Offeror shall specify a unit price in figures for each pay item for which a quantity is given and shall provide the products (in numbers) of the respective unit prices and quantities in the Extended Amount column. The total Bid price shall be equal to the sum of all extended amount prices. When an item in the Price Bid Schedule provides a choice to be made by the Offeror, Offeror's choice shall be indicated in accordance with the specifications for that particular item and thereafter no further choice shall be permitted.

Where the unit of a pay item is lump sum, the lump sum amount shall be shown in the "extended amount" column and included in the summation of the total Bid.

All blank spaces in the Price Bid Schedule must be properly filled out.

Bids by corporations must be executed in the corporate name by the president or vice president or other corporate office accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown below the signature.

Bids by partnerships must be executed in the partnership name and signed by a partner whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Offeror's Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Contractor's Bid Form.

The contact information to which communications regarding the Bid are to be directed must be shown.

- **1.7. Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- **1.8. Solicitation documents:** The complete IFB and bidder's response compose the Solicitation documents. Copies of bid documents can be obtained from the City Purchasing website, <a href="www.gjcity.org/business-and-economic-development/bids/">www.gjcity.org/business-and-economic-development/bids/</a>.
- 1.9. Examination of Specifications: Bidders shall thoroughly examine and be familiar with the project Statement of Work. The failure or omission of any Offeror to receive or examine any form, addendum, or other document shall in no way relieve any Offeror from any obligation with respect to his bid. The submission of a bid shall be taken as evidence of compliance with this section. Prior to submitting a bid, each Offeror shall, at a minimum:
  - a. Examine the solicitation documents thoroughly;
  - b. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the Work;
  - c. Become familiar with federal, state, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress or performance of the Work;

- d. Study and carefully correlate Bidder's observations with the solicitation documents, and;
- e. Notify the Purchasing Agent of all conflicts, errors, ambiguities or discrepancies in or among the solicitation documents within the designated inquiry period.

On request, the Owner will provide each Offeror access to the site to conduct such investigations and tests as each Bidder deems necessary for submission of a Bid. It shall be the Offeror's responsibility to make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (including without limitation, surface, subsurface and underground utilities) at or contiguous to the site or otherwise which may affect cost, progress or performance of the work and which the Offeror deems necessary to determine its Bid for performing the work in accordance with the time, price and other terms and conditions of the solicitation documents. Location of any excavation or boring made by Offeror shall be subject to prior approval of Owner and applicable agencies. Offeror shall fill all holes, restore all pavements to match the existing structural section and shall clean up and restore the site to its former condition upon completion of such exploration. The Owner reserves the right to require the Offeror to execute an access agreement with the Owner prior to accessing the site.

The lands upon which the Work is to be performed, rights of way, and access thereto, and other lands designated for use by Contractor in performing the Work, are identified on the Drawings.

Information and data reflected in the solicitation documents with respect to underground utilities at or contiguous to the site are based upon information and data furnished to the Owner and the Engineer by the owners of such underground utilities or others, and the Owner does not assume responsibility for the accuracy or completeness thereof, unless it is expressly provided otherwise in the solicitation documents.

By submission of a Bid, the Offeror shall be conclusively presumed to represent that the Offeror has complied with every requirement of these Instructions to Bidders, that the solicitation documents are not ambiguous and are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work.

- **1.10.** Questions Regarding Statement of Work: Any information relative to interpretation of Scope of Work or specifications shall be requested of the Purchasing Representative, in writing, in ample time, prior to the inquiry deadline.
- 1.11. Addenda & Interpretations: If it becomes necessary to revise any part of this solicitation, a written addendum will be posted electronically on the City's website at <a href="http://www.gicity.org/business-and-economic-development/bids/">http://www.gicity.org/business-and-economic-development/bids/</a>. The Owner is not bound by any oral representations, clarifications, or changes made in the written specifications by Owner, unless such clarification or change is provided in written addendum form from the City Purchasing Representative.

- **1.12. Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- **1.13. Sales and Use Taxes:** The Contractor and all Subcontractors are required to obtain exemption certificates from the Colorado Department of Revenue for sales and use taxes. Bids shall reflect this method of accounting for sales and use taxes on materials, fixtures and equipment.
- 1.14. Offers Binding 60 Days: Unless additional time is required by the Owner, or otherwise specified, all formal offers submitted shall be binding for sixty (60) calendar days following opening date, unless the Bidder, upon request of the Purchasing Representative, agrees to an extension.
- 1.15. Exceptions and Substitutions: Bidders taking exception to the specifications and/or scope of work 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, Bidder 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 and/or scope of work. The absence of such a list shall indicate that the Bidder has not taken exceptions, and if awarded a contract, shall hold the Bidder responsible to perform in strict accordance with the specifications and/or scope of work contained herein.
- 1.16. Collusion Clause: Each bidder by submitting a bid 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 bids shall be rejected if there is evidence or reason for believing that collusion exists among bidders. The Owner may, or may not, accept future bids for the same services or commodities from participants in such collusion.
- 1.17. Disqualification of Bidders: A Bid will not be accepted from, nor shall a Contract be awarded to, any person, firm, or corporation that is in arrears to the Owner, upon debt or contract, or that has defaulted, as surety or otherwise, upon any obligation to the Owner, or that is deemed irresponsible or unreliable.

Bidders may be required to submit satisfactory evidence that they are responsible, have a practical knowledge of the project bid upon and that they have the necessary financial and other resources to complete the proposed Work.

Either of the following reasons, without limitation, shall be considered sufficient to disqualify a Bidder and Bid:

- a. More than one Bid is submitted for the same Work from an individual, firm, or corporation under the same or different name; and
- b. Evidence of collusion among Bidders. Any participant in such collusion shall not receive recognition as a Bidder for any future work of the Owner until such participant has been reinstated as a qualified bidder.

1.18. Public Disclosure Record: If the bidder has knowledge of their employee(s) or sub-contractors having an immediate family relationship with a City employee or elected official, the bidder 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 City.

## 2. GENERAL CONTRACT CONDITIONS

- **2.1. The Contract:** This Invitation for Bid, submitted documents, and any negotiations, when properly accepted by the City, shall constitute a contract equally binding between the City and Contractor. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. The contract may be amended or modified with Change Orders, Field Orders, or Addendums.
- **2.2. The Work:** The term Work includes all labor necessary to produce the construction required by the Solicitation documents, and all materials and equipment incorporated or to be incorporated in such construction.
- 2.3. Execution, Correlation, Intent, and Interpretations: The Solicitation documents shall be signed by the Owner (City) and Contractor. City will provide the contract. By executing the contract, the Contractor represents that he/she has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his observations with the requirements of the Solicitation documents. The Solicitation 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 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 City are, and shall remain, City property. They are not to be used on any other project, and with the exception of one contract set for each party to the contract, are to be returned to the owner on request at the completion of the work.
- 2.4. The Owner: The Owner shall, at all times, have access to the work wherever it is in preparation and progress. The Contractor shall provide facilities for such access. The Owner will make periodic visits to the site to familiarize himself generally with the progress and quality of work and to determine, in general, if the work is proceeding in accordance with the solicitation documents. Based on such observations and the Contractor's Application for Payment, the Owner will determine the amounts owing to the Contractor and will issue Certificates for Payment in such amounts, as provided in the contract. The Owner will have authority to reject work which does not conform to the Solicitation documents. Whenever, in his reasonable opinion, he considers it necessary or advisable to insure the proper implementation of the intent of the Solicitation documents, he will have authority to require the Contractor to stop the work or any portion, or to require special inspection or testing of the work, whether or not such work can be then be fabricated, installed, or completed. The Owner will not be responsible for the acts or

- omissions of the Contractor, and sub-Contractor, or any of their agents or employees, or any other persons performing any of the work.
- 2.5. Contractor: The Contractor is the person or organization identified as such in the Agreement and is referred to throughout the Solicitation 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.
- **2.6. Sub-Contractors:** A 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 solicitation documents and means a sub-contractor or his authorized representative.
- 2.7. Award of Sub-Contractors & Other Contracts for Portions of the Work: Contractor shall submit with their bid response to the Owner, in writing for acceptance, a list of the names of the sub-contractors or other persons or organizations proposed for such portions of the work as may be designated in the proposal requirements, or, if none is so designated, the names of the sub-contractors proposed for the principal portions of the work. Prior to the award of the contract, the Owner shall notify the successful Contractor in writing if, after due investigation, has reasonable objection to any person or organization on such list. If, prior to the award of the contract, the Owner has a reasonable and substantial objection to any person or organization on such list, and refuses in writing to accept such person or organization, the successful Contractor may, prior to the award, withdraw their proposal without forfeiture of proposal security. If the successful Contractor submits an acceptable substitute with an increase in the proposed price to cover the difference in cost occasioned by the substitution, the Owner may, at their discretion, accept the increased proposal or may disqualify the Contractor. If, after the award, the Owner refuses to accept any person or organization on such list, the Contractor shall submit an acceptable substitute and the contract sum shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate Change Order shall be issued. However, no increase in the contract sum shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting a name with respect thereto prior to the award.
- 2.8. Quantities of Work and Unit Price: Materials or quantities stated as unit price items in the Bid are supplied only to give an indication of the general scope of the Work, and are as such, estimates only. The Owner does not expressly or by implication agree that the actual amount of Work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit item of the Work without a change in the unit price except as set forth in the solicitation documents. The City also reserves the right to make changes in the Work (including the right to delete any bid item in its entirety or add additional bid items) as set forth in in the solicitation documents.

- 2.9. **Substitutions:** The materials, products and equipment described in the *Solicitation* Documents shall be regarded as establishing a standard of required performance, function, dimension, appearance, or quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless the Offeror submits a written request for approval to the City Purchasing Division at least ten (10) days prior to the date for receipt of Bids. Such requests for approval shall include the name of the material or equipment for which substitution is sought and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for evaluation, including samples if requested. The Offeror shall set forth changes in other materials, equipment, or other portions of the Work including changes of the work of other contracts, which incorporation of the proposed substitution would require to be included. The Owner's decision of approval or disapproval of a proposed substitution shall be final. If the Owner approves a proposed substitution before receipt of Bids, such approval will be set forth in an Addendum. Offeors shall not rely upon approvals made in any other manner.
- **2.10.** Supervision and Construction Procedures: The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- 2.11. Warranty: The Contractor warrants to the Owner that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Solicitation documents. All work not so conforming to these standards may be considered defective. If required by Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If within ten (10) days after written notice to the Contractor requesting such repairs or replacement, the Contractor should neglect to make or undertake with due diligence to the same, the City may make such repairs or replacements. All indirect and direct costs of such correction or removal or replacement shall be at the Contractor's expense. The Contractor will also bear the expenses of making good all work of others destroyed or damaged by the correction, removal or replacement of his defective work.
- 2.12. Permits, Fees, & Notices: The Contractor shall secure and pay for all permits, governmental 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 Solicitation documents are at variance in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. 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, he shall assume full responsibility and shall bear all costs attributable.
- **2.13.** Responsibility for Those Performing the Work: The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all sub-contractors, their agents and employees, and all other persons performing any of the work under a contract with the Contractor.

- **2.14.** Use of the Site: The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Solicitation documents, and shall not unreasonably encumber the site with any materials or equipment.
- **2.15. Cleanup:** The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by contractor's operations. At the completion of work contractor shall remove all waste materials and rubbish from and about the project, as well as all tools, construction equipment, machinery and surplus materials.
- 2.16. Insurance Requirements: The selected Bidder 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 Bidder pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Bidder 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.

Bidder shall procure and maintain and, if applicable, shall cause any Subcontractor of the Bidder to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to the Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Bidder pursuant to this Section. 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 in the Special Conditions:

- (a) Worker Compensation: Contractor shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.
- (b) General Liability insurance with minimum combined single 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 combined single 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

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 Bidder's 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 City and/or County, and the City's and/or County'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.

- 2.17. Indemnification: The Contractor 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 Contractor, or of any Contractor's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Contractor shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.18. Miscellaneous Conditions: Material Availability: Contractors must accept responsibility for verification of material availability, production schedules, and other pertinent data prior to submission of bid. It is the responsibility of the bidder to notify the Owner immediately if materials specified are discontinued, replaced, or not available for an extended period of time. OSHA Standards: All bidders 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.
- 2.19. Time: Time is of the essence with respect to the time of completion of the Project and any other milestones or deadline which are part of the Contract. It will be necessary for each Bidder to satisfy the City of its ability to complete the Work within the Contract Time set forth in the Solicitation documents. The Contract Time is the period of time allotted in the Solicitation documents for completion of the work. The date of commencement of the work is the date established in a Notice to Proceed. If there is no Notice to Proceed, it shall be the date of the Contract or such other date as may be established therein, or as established as entered on the Bid Form. The Date of Final Completion of the work is the date certified by the Owner when all construction, and all other work associated to include, but not be limited to: testing, QA/QC, receipt of required reports and/or forms, grant requirements (if applicable), punch list items, clean-up, receipt of drawings and/or asbuilts, etc., is fully complete, and in accordance with the Solicitation documents.
- **2.20. Progress & Completion:** The Contractor shall begin work on the date of commencement as defined in the Contract, and shall carry the work forward expeditiously with adequate forces and shall complete it within the contract time.

- 2.21. 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 Solicitation 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 he finds the work acceptable under the Solicitation documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Solicitation documents.
- 2.22. Bid Bond: Each Bid shall as a guaranty of good faith on the part of the Bidder be accompanied by a Bid Guaranty consisting of: a certified or cashier's check drawn on an approved national bank or trust company in the state of Colorado, and made payable without condition to the City; or a Bid Bond written by an approved corporate surety in favor of the City. The amount of the Bid Guaranty shall not be less than 5% of the total Bid amount. Once a Bid is accepted and a Contact is awarded, the apparent successful bidder has ten calendar days to enter into a contractor in the form prescribed and to furnish the bonds with a legally responsible and approved surety. Failure to do so will result I forfeiture of the Bid Guaranty to the City as Liquidated Damages.

Each bidder shall guaranty its total bid price for a period of sixty (60) Calendar Days from the date of the bid opening.

- 2.23. 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 Solicitation 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 Solicitation 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 singed 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.
- 2.24. 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.

- 2.25. Liquidated Damages for Failure to Enter Into Contract: Should the Successful Bidder fail or refuse to enter into the Contract within ten Calendar Days from the issuance of the Notice of Award, the City shall be entitled to collect the amount of such Bidder's Bid Guaranty as Liquidated Damages, not as a penalty but in consideration of the mutual release by the City and the Successful Bidder of all claims arising from the City's issuance of the Notice of Award and the Successful Bidder's failure to enter into the Contract and the costs to award the Contract to any other Bidder, to readvertise, or otherwise dispose of the Work as the City may determine best serves its interest.
- 2.26. Liquidated Damages for Failure to Meet Project Completion Schedule: 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 \$500.00 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 is 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 fully 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 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.

- 2.27. 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 or Owner's Project Manager.
- 2.28. 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, he shall restore, at his 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.
- 2.29. 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, the contract sum and the contract time being adjusted accordingly. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the solicitation 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. The contract sum and the contract time may be changed only by Change Order.
- 2.30. Claims for Additional Cost or Time: If the Contractor wishes to make a claim for an increase in the contract sum or an extension in the contract time, he shall give the Owner written notice thereof within a reasonable time after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the work, except in an emergency endangering life or property in which case the Contractor shall precede in accordance with the regulations on safety. No such claim

- shall be valid unless so made. Any change in the contract sum or contract time resulting from such claim shall be authorized by Change Order.
- **2.31. 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 solicitation documents.
- **2.32. Field Orders:** The Owner may issue written Field Orders which interpret the Solicitation documents in accordance with the specifications, or which order minor changes in the work in accordance with the agreement, without change in the contract sum or time. The Contractor shall carry out such Field Orders promptly.
- 2.33. Uncovering & Correction of Work: The Contractor shall promptly correct all work rejected by the Owner as defective or as failing to conform to the solicitation documents whether observed before or after substantial completion and whether or not fabricated installed or competed. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. If within one (1) year after the date of completion or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the solicitation documents, any of the work found to be defective or not in accordance with the solicitation documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. 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 solicitation documents without cost to the Owner. The Contractor shall bear the cost of making good all work of separate Contractors destroyed or damaged by such removal or correction. If the Owner prefers to accept defective or non-conforming work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect an appropriate reduction in the payment or contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor.
- **2.30. 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 amendments to the contract shall be made in writing by the Owner.
- **2.31. Assignment:** The Contractor shall not sell, assign, transfer or convey any contract resulting from this IFB, in whole or in part, without the prior written approval from the Owner.
- **2.32.** Compliance with Laws: Bids 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.
- **2.33.** 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.

- **2.34.** Conflict of Interest: No public official and/or City/County employee shall have interest in any contract resulting from this IFB.
- **2.35. 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.
- **2.36. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Contractor, by submitting a Bid, agrees to the following conditions:
  - 2.36.1. The Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, handicap, or national origin except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Contractor. The Contractor agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
  - **2.36.2.** The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, shall state that such Contractor is an Equal Opportunity Employer.
  - **2.36.3.** 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.
- **2.37. Affirmative Action:** In executing a Contract with the City, the Contractor agrees to comply with Affirmative Action and Equal Employment Opportunity regulations presented in the General Contract Conditions.
- 2.38. 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).
- **2.39.** Ethics: The Contractor 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.
- **2.40.** Failure to Deliver: In the event of failure of the Contractor 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 Contractor 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.
- **2.41.** 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.
- **2.42. 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.
- 2.43. 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 the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Contractor, its servants, or agents. The Owner shall not withhold from the contract payments to 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, the Owner shall not provide to the Contractor any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- **2.44. Nonconforming Terms and Conditions:** A bid that includes terms and conditions that do not conform to the terms and conditions of this Invitation for Bid is subject to rejection as non-responsive. The Owner reserves the right to permit the Contractor to withdraw nonconforming terms and conditions from its bid prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

Items for non-responsiveness may include, but not be limited to:

- a. Submission of the Bid on forms other than those supplied by the City;
- b. Alteration, interlineation, erasure, or partial detachment of any part of the forms which are supplied herein;
- Inclusion of unauthorized additions conditional or alternate Bids or irregularities of any kind which may tend to make the Bid incomplete, indefinite, or ambiguous as to its meaning;
- d. Failure to acknowledge receipt of any or all issued Addenda;
- e. Failure to provide a unit price or a lump sum price, as appropriate, for each pay item listed except in the case of authorized alternative pay items;
- f. Failure to list the names of Subcontractors used in the Bid preparation as may be required in the Solicitation Documents;
- g. Submission of a Bid that, in the opinion of the Owner, is unbalanced so that each item does not reasonably carry its own proportion of cost or which contains inadequate or unreasonable prices for any item;
- h. Tying of the Bid with any other bid or contract; and
- i. Failure to calculate Bid prices as described herein.

#### **2.45.** Evaluation of Bids and Offerors: The Owner reserves the right to:

- reject any and all Bids,
- waive any and all informalities,
- negotiate final terms with the Successful Bidder, and
- disregard any and all nonconforming, nonresponsive or conditional Bids.

Discrepancies between words and figures will be resolved in favor of words. Discrepancies between Unit Prices and Extended Prices will be resolved in favor of the Unit Prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. The corrected extensions and totals will be shown in the tabulation of Bids.

The Owner may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of Subcontractors and other persons and organizations must be submitted. Operating costs, maintenance considerations performance data, and guarantees of materials and equipment may also be considered by the Owner.

The Owner will conduct such investigations as deemed necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of the Offeror, proposed Subcontractors and other persons and organizations to do the Work in accordance with the *Solicitation documents* to the City's satisfaction within the Contract Time.

The Offeror shall furnish the Owner all information and data requested by the Owner to determine the ability of the Offeror to perform the Work. The Owner reserves the right to reject the Bid if the evidence submitted by, or investigation of such Offeror fails to satisfy the Owner that such Offeror is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.

By submitting a Bid, each Offeror authorizes the Owner to perform such investigation of the Offeror as the Owner deems necessary to establish the responsibility, qualifications and financial ability of the Offeror and, by its signature thereon, authorizes the Owner to obtain reference information concerning the Offeror and releases the party providing such information and the Owner from any and all liability to the Offeror as a result of such reference information so provided.

The Owner reserves the right to reject the Bid of any Offeror who does not pass any evaluation to the Owner's satisfaction.

If the Contract is to be awarded, it will be awarded to the Offeror who, by evaluation, the Owner determines will best meet the Owner's interests.

The Owner reserves the right to accept or reject the Work contained in any of the Price Bid Schedules or alternates, either in whole or in part.

2.46. Award of Contract: Unless otherwise indicated, a single award will be made for all the bid items in an individual bid schedule. In the event that the Work is contained in more than one Bid Schedule, the City may award Schedules individually or in combination. In the case of two Bid Schedules which are alternative to each other, only one of such alternative Schedules will be awarded. Within forty-five (45) Calendar Days of Bid Opening, the City will issue a Notice of Award to the Successful Bidder which will be accompanied by four (4) unsigned copies of the Contract and the Performance and Payment Bond forms. Within ten (10) Calendar Days thereafter, the Successful Bidder shall sign and deliver four (4) copies of the Contract, Performance Bond, Payment Bond and Certificates of Insurance to the City. Within ten (10) Calendar Days thereafter, the City will deliver two (2) fully executed counterparts of the Contract to the Contractor. No contract shall exist between the Successful Bidder and the City and the Successful Bidder shall have no rights at law or in equity until the Contract has been duly executed by the City.

The Successful Bidder's failure to sign and submit a Contract and other documents set forth in this Paragraph within the prescribed time shall be just cause of annulment of the award, and forfeiture of the Bid Guaranty. The award of Contract may then be made to the next qualified Bidder in the same manner as previously prescribed.

- **2.47. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- **2.48. 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.
- **2.49.** Patents/Copyrights: The Contractor 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 Contractor 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 IFB.
- **2.50. Remedies**: The Contractor and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- **2.51. Venue**: Any agreement as a result of responding to this IFB 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.
- **2.52.** Expenses: Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- **2.53. 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.
- **2.54.** Non-Appropriation of Funds: The contractual obligation of the Owner under this contract is contingent upon the availability of appropriated funds from this fiscal year

budget as approved by the City Council or Board of County Commissioners from this fiscal year only. State of Colorado Statutes prohibit obligation of public funds beyond the fiscal year for which the budget was approved. Anticipated expenditures/obligations beyond the end of the current Owner's fiscal year budget shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.

- 2.55. Cooperative Purchasing: Purchases as a result of this solicitation are primarily for the City/County. 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 Bid. The quantities furnished in this bid document are for only the City/County. It does not include quantities for any other jurisdiction. The City or County will be responsible only for the award for its 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 City/County 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.
- 2.56. 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 projects. 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).

- **2.56.1.** "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.

## 3. STATEMENT OF WORK

**3.1. PROJECT DESCRIPTION:** Replace the aging AC-5 stage RTU and both lobby split systems in the Avalon Theatre.

#### 3.2. SPECIAL CONDITIONS & PROVISIONS:

3.2.1 Pre-Bid Meeting: It is <u>HIGHLY RECOMMENDED</u> prospective bidders attend a pre-bid meeting on <u>May 5, 2020 at 2:00 P.M.</u> Meeting location shall be in the Avalon <u>Theatre located at 645 Main Street, Grand Junction, CO</u>. The purpose of this visit will be to inspect and to clarify the contents of this document

#### 3.2.2 QUESTIONS REGUARDING SOLICIATION PROCESS/SCOPE OF WORK:

Susan Hyatt, Senior Buyer City of Grand Junction susanh@gicity.org

**3.2.3 Project Manager:** The Project Manager for the Project is Jim Stavast, who can be reached at (970)244-1569. <u>During Construction</u>, all notices, letters, submittals, and other communications directed to the City shall be addressed and mailed or delivered to:

City of Grand Junction
General Services Department, Facilities
Attn: Jim Stavast, Project Manager
333 West Avenue, Building B
Grand Junction, CO 81501
970/244-1569
jimst@gicity.org

- **3.2.4 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. 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.
- **3.2.5 Freight/Shipping:** All freight/shipping shall be F.O.B. Destination Freight Pre-Paid and Allowed to the project site(s), Grand Junction, CO. Contractor must meet all federal, state, and local rules, regulations, and requirements for providing such services.
- **3.2.6 Contract:** A binding contract shall consist of: (1) the IFB and any amendments thereto, (2) the bidder's response (bid) to the IFB, (3) clarification of the bid, if any, and (4) the City's Purchasing Department's acceptance of the bid by "Notice of Award" or by "Purchase Order". All Exhibits and Attachments included In the IFB 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.
- **3.2.7 Time of Completion:** The scheduled time of Completion for the Project is <u>30 Calendar Days</u> from the starting date specified in the Notice to Proceed.

Completion is achieved when site cleanup and all punch list items (resulting from the final inspection) have been completed.

**3.2.8 Working Days and Hours:** The working days and hours shall be as stated in the General Contract Conditions or as mutually agreed upon in the preconstruction meeting with the following exception:

All work shall be performed between the hours of 7:00 AM to 5:00 PM Monday-Friday.

- **3.2.9 Licenses and Permits:** Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.12. Contractor shall supply to Owner all copies of finalized permits.
- **3.2.10** Authorized Representatives of the City: Those authorized to represent the City shall include Purchasing Agent, Engineers, and Inspectors employed by the City, only.
- **3.2.11 Clean-Up:** The Contractor is responsible for cleaning up all loose materials. The costs for all clean-up work shall be considered incidental and will not be paid for separately.
- **3.2.12 Incidental Items:** Any item of work not specifically identified or paid for directly, but which is necessary for the satisfactory completion of any paid items of work, will be considered as incidental to those items, and will be included in the cost of those items.

#### 3.3. SCOPE OF WORK:

- 1. Contractor shall secure all necessary permits and pay all fees.
- 2. Contractor is responsible for verifying all data and measurements before starting work.
- 3. All installation work shall meet current codes.
- 4. The attached Bighorn Engineering drawings, notes, and specifications are part of this scope of work.
- 5. Old equipment shall be removed and properly disposed of. The old fan coil units are to be abandoned in place and shall have electrical wiring disconnected and labeled.
- 6. Provide written report on equipment start up and verify proper operation.
- 7. Provide controls training for the Avalon staff.
- 8. Contractor is to provide a one-year written workmanship warranty along with the equipment manufacturer's warranties.
- 9. Provide owner with copies of specification sheets, warranty's, and O & M manuals for all equipment.
- 10. Provide at least one copy digitally on a flash drive.

- 3.4. Attachments: Bighorn Engineering Drawings (8 sheets) Attachment 1.
- **3.5. Contractor Bid Documents:** For Contractor's convenience, the following is a list of forms/items to be submitted with the Contractor's bid response. However, should a form/item not be listed in this section, but required in the solicitation documents, it is the Contractor's responsibility to ensure all forms/items are submitted.
  - Contractor's Bid Form
  - Price Bid Schedule
  - References

#### 3.6. IFB TENTATIVE TIME SCHEDULE:

Invitation For Bids available	April 28, 2020
Mandatory Pre-Bid Meeting	May 5, 2020
Inquiry deadline, no questions after this date	May 8, 2020
Addendum Posted	May 12, 2020
Submittal deadline for proposals	May 19, 2020
Notice of Award & Contract execution	May 21, 2020
Bonding & Insurance Cert due	May 29, 2020
Work begins no later than	June 1, 2020
Final Completion	30 Calendar Days from Notice
	to Proceed

## 4. CONTRACTOR'S BID FORM

Bid Date:		<del> </del>	
Project: IFB-4796-20-SH "HV	AC Upgrade Avalon Theatre Lobby a	nd Stage"	
Bidding Company:			_
Name of Authorized Agent: _			_
Email			_
Telephone	Address		_
City	State	Zip	
Conditions, Statement of Worl conditions affecting the propose the Project in accordance with S	mpliance with the Invitation for Bids, having, Specifications, and any and all Address work, hereby proposes to furnish all Solicitation documents, within the time so in performing the work required under the	denda thereto, having investigated the labor, materials and supplies, and to peset forth and at the prices stated below.	location of, and erform all work for These prices are
to any person(s) providing an of	bes hereby declare and stipulate that this ffer for the same work, and that it is made the Specifications, and all other Solicitat	e in pursuance of, and subject to, all terr	ms and conditions
	t if awarded the Contract, to provide insunittal of this offer will be taken by the Cot in its entirety.		
technicalities and to reject any	to make the award on the basis of the coron all offers. It is further agreed that the. Submission of clarifications and rev	his offer may not be withdrawn for a po	eriod of sixty (60)
Prices in the bid proposal have	not knowingly been disclosed with anot	ther provider and will not be prior to awa	ard.
<ul> <li>purpose of restricting competities</li> <li>No attempt has been made restricting competition.</li> <li>The individual signing the legally responsible for the purchases by the goats4. The undersigned ceres to city of Grand Junction personner payment discourse.</li> </ul>	sal have been arrived at independently, varion.  nade nor will be to induce any other perches bid proposal certifies they are a legarche offer with regard to supporting docume City of Grand Junction are tax exemportifies that no Federal, State, County or National payment terms shall be Net 30 days.  Lint of percent of the net dollar eceipt of the invoice.	erson or firm to submit a bid proposal for all agent of the offeror, authorized to representation and prices provided.  In the from Colorado Sales or Use Tax. Tay Municipal tax will be added to the above	or the purpose of present the offeror x exempt No. 98-quoted prices.
RECEIPT OF ADDENDA: Specifications, and other Sol	the undersigned Contractor acknowlicitation documents.	owledges receipt of Addenda to	the Solicitation,
State number of Addenda rec	ceived:		
It is the responsibi	ility of the Bidder to ensure all Adden	da have been received and acknowle	edged.
By signing below, the Undersign	ned agree to comply with all terms and o	conditions contained herein.	
Company:			
Authorized Signature:			

Title: \_\_\_\_\_

#### PRICE BID SCHEDULE: IFB-4796-SH HVAC Upgrades Avalon Theatre Lobby and Stage

**Total Price** 

Description

Item

No.	Description		rotal Price
1	All labor, equipment, supplies, materials, freight (F.G. Freight Pre-paid and Allowed to each site), travel, mall other costs related to the successful completion of	nobilization costs, and	
	the solicitation documents.		
otal E	Bid Price Written:		
Rv	v signing below, the Undersigned agree to co	mnly with all terms a	nd conditions contained
-	erein.	mpiy with all terms a	nd conditions contained
Co	ompany:		
	uthorized gnature:		
Tit	tle:		
Bio	dder proposes to subcontract the following	g portion of Work:	
Na	ame & address of	Description of work	% of
<u>Su</u>	ub-Contractor	to be performed	<u>Contract</u>

Bidder acknowledges the right of the City to reject any and all Bids submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own organization, that this Bid has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

# **Attachment 1**

HT

HTR

HV

HWP

HWR

HWS

LVG

LVR

LWT

LWT

MBH

MED

MFR

MH

MIN

MISC

MOD

MTD

MUA

NO

NOM

NTS

OA

OAI OUTSIDE AIR INTAKE

DRAWING ABBREVIATIONS	COND CONDENSATE	EXPAN EXPANSION
	CONN CONNECTION	EXT EXTERNAL
AAV AUTOMATIC AIR VENT	CONT'N CONTINUATION	F DEGREES FAHRENHEIT
ABV ABOVE	CONTR CONTRACTOR	F/D FIRE DAMPER
AC AIR CONDITIONING UNIT	CP CONDENSATE PUMP	F/S/D WITH FIRE/SMOKE DAMPER ACCESS DOOR
AD ACCESS DOOR	CT COOLING TOWER	FA FROM ABOVE
ADR AREA DRAIN (SEE SYMBOLS)	CU CONDENSING UNIT	FA FREE AREA
AFF ABOVE FINISHED FLOOR	CUH CABINET UNIT HEATER	FB FROM BELOW
AH AIR HANDLER (SPLIT REFRIG)	CVB CONSTANT VOLUME BOX	FC FAIL CLOSED
AHU AIR HANDLING UNIT	CWP CONDENSER WATER PUMP	FCU FAN COIL UNIT
AL ACOUSTICAL LINING	CWR CONDENSER WATER RETURN	FCV FLOW CONTROL VALVE
ALUM ALUMINUM	CWS CONDENSER WATER SUPPLY	FD FLOOR DRAIN
AP ACCESS PANEL	DA DIRECT ACTING	FD FIRE DAMPER
ATC AUTOMATIC TEMP. CONTROL	DAMP DAMPER	FIN FINISHED
AVER AVERAGE	DB DRY BULB	FL FLANGE
AWT AVERAGE WATER TEMP.	DEPT DEPARTMENT	FLA FULL LOAD AMPS
B BOILER	DIA DIAMETER	FLEX FLEXIBLE
BB ELECTRIC BASEBOARD RADIATION	DIAG DIAGRAM	FLR FLOOR
BDD BACK DRAFT DAMPER	DIFF DIFFERENTIAL	FO FAIL OPEN
BFC BELOW FINISHED CEILING	DISCH DISCHARGE	FOB FLAT ON BOTTOM
BFP BACK FLOW PREVENTOR	DIV DIVISION	FOP FUEL OIL PUMP
BLDG BUILDING	DIW DOWN IN WALL	FOT FLAT ON TOP
BLW BELOW	DL DOOR LOUVER	FP FIRE PROTECTION
BOB BOTTOM OF BEAM	DN DOWN	FP FIRE PUMP
BOD BOTTOM OF DUCT	DS DUCT SILENCER	FPM FEET PER MINUTE
BOP BOTTOM OF PIPE	DWG DRAWING	FPS FEET PER SECOND
BSMT BASEMENT	DWP DOMESTIC WATER PUMP	FRICT FRICTION
BTU BRITISH THERMAL UNIT	DX DIRECT EXPANSION	FS FLOW SWITCH
C CHILLER	EA EACH	FT FEET
CAP CAPACITY	EAT ENTERING AIR TEMPERATURE	FTR FINNED TUBE RADIATION
CBV CIRCUIT BALANCING VALVE	EC ELECTRICAL CONTRACTOR	FV FACE VELOCITY
CD CEILING DIFFUSER	ECC ECCENTRIC	FX FLEXIBLE CONNECTION
CFH CUBIC FEET PER HOUR	EF EXHAUST FAN	FXC FLEXIBLE CONNECTION
CFM CUBIC FEET PER MINUTE	EFF EFFICIENCY	GA GAUGE
CFM CUBIC FEET PER MINUTE	EJ EXPANSION JOINT	GAL GALLON
CHP CONCRETE HOUSEKEEPING PAD	EL ELEVATION	GALV GALVANIZED
CHWP CHILLED WATER PUMP	ELEC ELECTRIC	GC GENERAL CONTRACTOR
CHWR CHILLED WATER RETURN	ELEV ELEVATOR	GPH GALLONS PER HOUR
CHWS CHILLED WATER SUPPLY	ENT ENTERING	GPM GALLONS PER MINUTE
CI CAST IRON	EQ EQUAL	GR GRILLE
CL CENTER LINE	EQUIP EQUIPMENT	GRS/LB GRAINS PER POUND
CLG CEILING	EQUIV EQUIVALENT	H 2O WATER
CMU CONCRETE MASONRY UNIT	ER EXHAUST REGISTER	HB HOSE BIBB
CO CLEAN OUT	ES END SWITCH	HD HAND DAMPER
COL COLUMN	ESP EXTERNAL STATIC PRESSURE	HD HEAD (SEE SCHEDULES)
COMP COMPRESSOR	ET EXPANSION TANK	HP HORSEPOWER
CON CONCENTRIC	EWC ELECTRIC WATER COOLER	HP HEAT PUMP

EWT ENTERING WATER TEMPERATURE

EX EXHAUST

CONC CONCRETE

HEIGHT	OAT	OUTSIDE AIR TEMPERATURE
HEATER	ОВ	OFF BOTTOM
HEATING AND VENTILATING UNIT	OBD	OPPOSED BLADE DAMPER
HOT WATER CONVERTER	OC	ON CENTER
HOT WATER PUMP	OCC	OCCUPIED
HEATING HOT WATER RETURN	OD	OUTSIDE DIMENSION
HEATING HOT WATER SUPPLY	OD	OUTSIDE DIAMETER
HEAT EXCHANGER	OGH	OUTSIDE GROUND HYDRANT
HERTZ	OPG	OPENING
INTERNAL DIAMETER	ОТ	OFF TOP
INSIDE DIAMETER	OZ	OUNCE
INCHES	PART	PARTIAL
INCLUDING	PBD	PARALLEL BLADE DAMPER
INTERNAL	PD	PRESSURE DROP (SEE SCHEDULE)
INVERT	PDR	PLENUM DRAIN
KILOWATT	PERF	PERFORATED
LENGTH	PH	PHASE
LEAVING AIR TEMPERATURE	PNEU	PNEUMATIC
POUND	POS	POSITIVE PRESS
LINEAR DIFFUSER	PRESS	PRESSURE
LINEAR FEET	PRV	PRESSURE REDUCING VALVE
LINEAR	PS	PRESSURE SWITCH
LIQUID	PSI	POUNDS PER SQUARE INCH
LOCK ROTOR AMPS	PT	PRESSURE TRANSMITTER
LEAVING	PTAC	PACKAGED TERMINAL AIR CONDITIONER
LOUVER	PV	PLUG VALVE
LEAVING WATER TEMPERATURE	PVC	POLYVINYL CHLORIDE
LEAVING WATER TEMPERATURE	QUAN	QUANTITY
THOUSANDS OF BTU PER HOUR	R	REGISTER
MECHANICAL CONTRACTOR	RA	RETURN AIR
MEDIUM	RAG	RETURN AIR GRILLE
MANUFACTURER	RAR	RETURN AIR REGISTER
MANHOLE	RCP	REFLECTED CEILING PLAN
MINIMUM	RD	ROOF DRAIN
MISCELLANEOUS	RE	ROUNDED ENTRANCE/EXIT
MOTOR OPERATED DAMPER	REL	RELIEF
MOUNTED		REQUIRED
MAKE-UP AIR UNIT	RET	RETURN
NORMALLY CLOSED	RF	RETURN FAN
NEGATIVE	RH	RELATIVE HUMIDITY
NOT IN CONTRACT	RHC	REHEAT COIL
NECK	RICW	RUN IN CASEWORK
NORMALLY OPEN	RIE	RUN IN ENCLOSURE
NUMBER	RIW	RISE IN WALL
NORMALLY OPEN	RLA	RATED LOAD AMPS
NOMINAL	RM	ROOM
NOT TO SCALE	ROD	
OUTSIDE AIR		REVOLUTIONS PER MINUTE
		2==::=::=:

SCG	SMOKE CONTROL GRILLE	PLACE AND WIRED AS FOLLOWS:	I, MOTORO, AND	CONTROLS	STIALL BE TO	MISTIED, SET IN
SCH	SCHEDULE	ITEM	FURNISHED	SET	POWER	CONTROL
SCHE	M SCHEMATIC				WIRED	WIRED
SD	SMOKE DAMPER	EQUIPMENT	23	23	26	
SEF	SMOKE EXHAUST FAN	COMBINATION MAGNETIC	23	23	20	
SF	SUPPLY FAN	MOTOR STARTERS, MAGNETIC				
SH	SENSIBLE HEAT	MOTOR STARTERS AND CONTACTORS	23	26	26	23
SP	STATIC PRESSURE	CONTACTORS	23	20	20	23
SPEC	SPECIFICATION	FUSED AND UNFUSED				
SQ	SQUARE	DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES				
SS	STAINLESS STEEL	AND HEATERS, MANUAL MOTOR				
STD	STANDARD	STARTERS	26(1)	26(1)	26	
STL	STEEL	MANUAL-OPERATING AND				
STM	STEAM	MULTI-SPEED SWITCHES	23	26	26	26
STR	STRUCTURAL	CONTROLS, RELAYS,				
SUCT	SUCTION	TRANSFORMERS	23	23	26	23
SYS	SYSTEM	TUEDMOOTATO (LONG) TAGE)				
TAD	TRANSFER AIR DUCT	THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
TDH	TOTAL DYNAMIC HEAD					
TEM	P TEMPERATURE	THERMOSTATS(LINE VOLTAGE)	23	23	26	26
TG	TRANSFER GRILLE	TEMPERATURE CONTROL PANELS	23	23	26	23
THT	TOTAL HEAT					
TP	TOTAL PRESSURE	MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP				
TT	TEMPERATURE TRANSMITTER	SWITCHES	23	23(2)		23(2)
TYP	TYPICAL	DUCLI DUTTON CTATIONS				
UC	UNDERCUT	PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)		23(2)
UH	UNIT HEATER			- ( )		- ( )
UNO	CC UNOCCUPIED	HEATING, COOLING, VENTILATION AND AIR				
UON	UNLESS OTHERWISE NOTED	CONDITIONING CONTROLS	23	23	26	23
V	VOLTS	EVILALIOT FAN OWITCHEO	00	00	00	00(0)
VA	VALVE	EXHAUST FAN SWITCHES	23	26	26	23(2)
VAV	VARIABLE AIR VOLUME UNIT					
VB	VACUUM BREAKER	SUBSCRIPT FOOTNOTES:  1) UNDER DIVISION 23 IF FURNISHEI		ED AS DADT	OE EOLIIDMEN	IT OD IE
VD	VOLUME DAMPER	FURNISHED WITH COMBINATION		LD AO I AITI	OI EQUII MEN	II OK II
VEL	VELOCITY	2) IF ITEM IS FOR LINE VOLTAGE, S				
VI	VIBRATION ISOLATOR	WHERE FACTORY MOUNTED ON AND USING LINE VOLTAGE FURN				
VOLT	VOLTAGE	DIVISION 26.			5.120, 5014IVE	C. 0.10LI
VTR	VENT THRU ROOF					
W	WIDTH					
W/	WITH					
W/O	WITHOUT					

RESPONSIBLE DIVISION

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING,

AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN

SA SUPPLY AIR

WB WET BULB

WB WET BULB

WC WATER COLUMN

WG WATER GAUGE

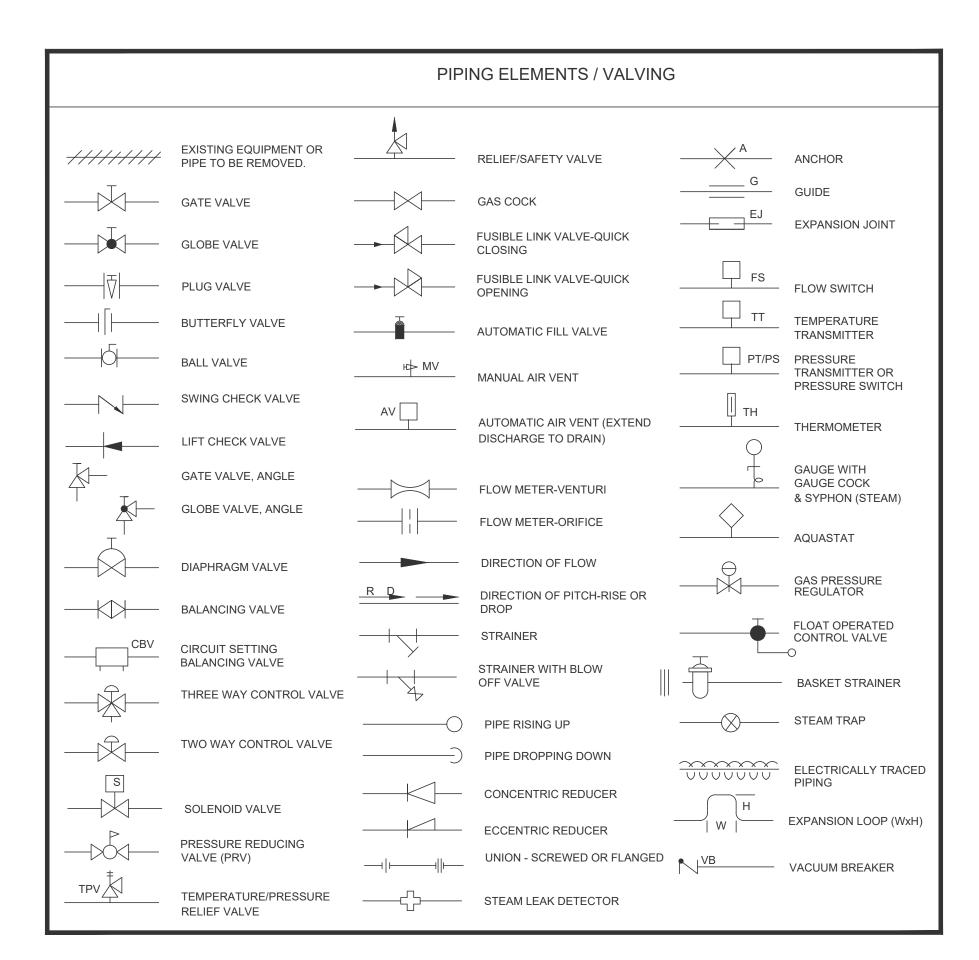
WMS WIRE MESH SCREEN

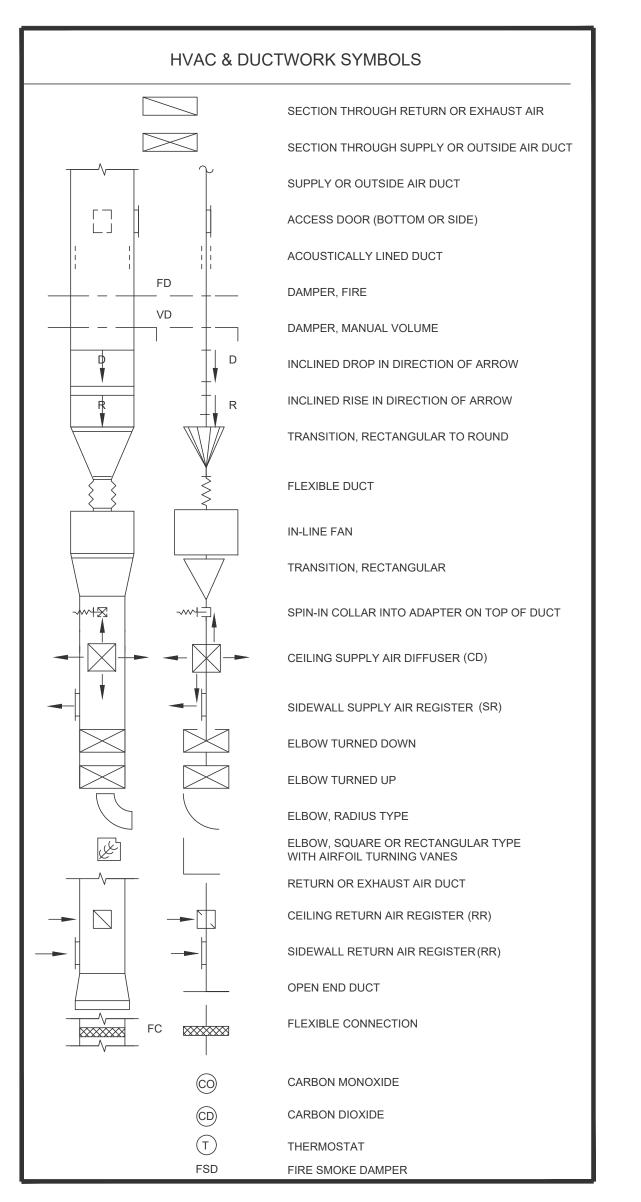
SAD SUPPLY AIR DIFFUSER

SAR SUPPLY AIR REGISTER

LINE DESIGI	NATION SYMBOLS
cs	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RD	REFRIGERANT DISCHARGE
———— GS ————	GLYCOL SUPPLY
———— GR ———	GLYCOL RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HPS	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
———— PC ———	PUMPED CONDENSATE
CF	— CHEMICAL FEED
v	- VENT PIPING
R	RELIEF PIPING
MU	MAKE-UP WATER
OF	— OVERFLOW
D	— DRAIN
——— FL ———	— FILL LINE
——— G ———	— NATURAL GAS
GV	— GAS VENT
sw	— SOFT WATER
SMS	— SNOWMELT SUPPLY
SMR	— SNOWMELT RETURN
CHWS	— CHILLED WATER SUPPLY
a	— CHILLED WATER RETURN

HR HOUR





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(J 'ALO  $\forall$  $\triangleleft$  $\Box$ 

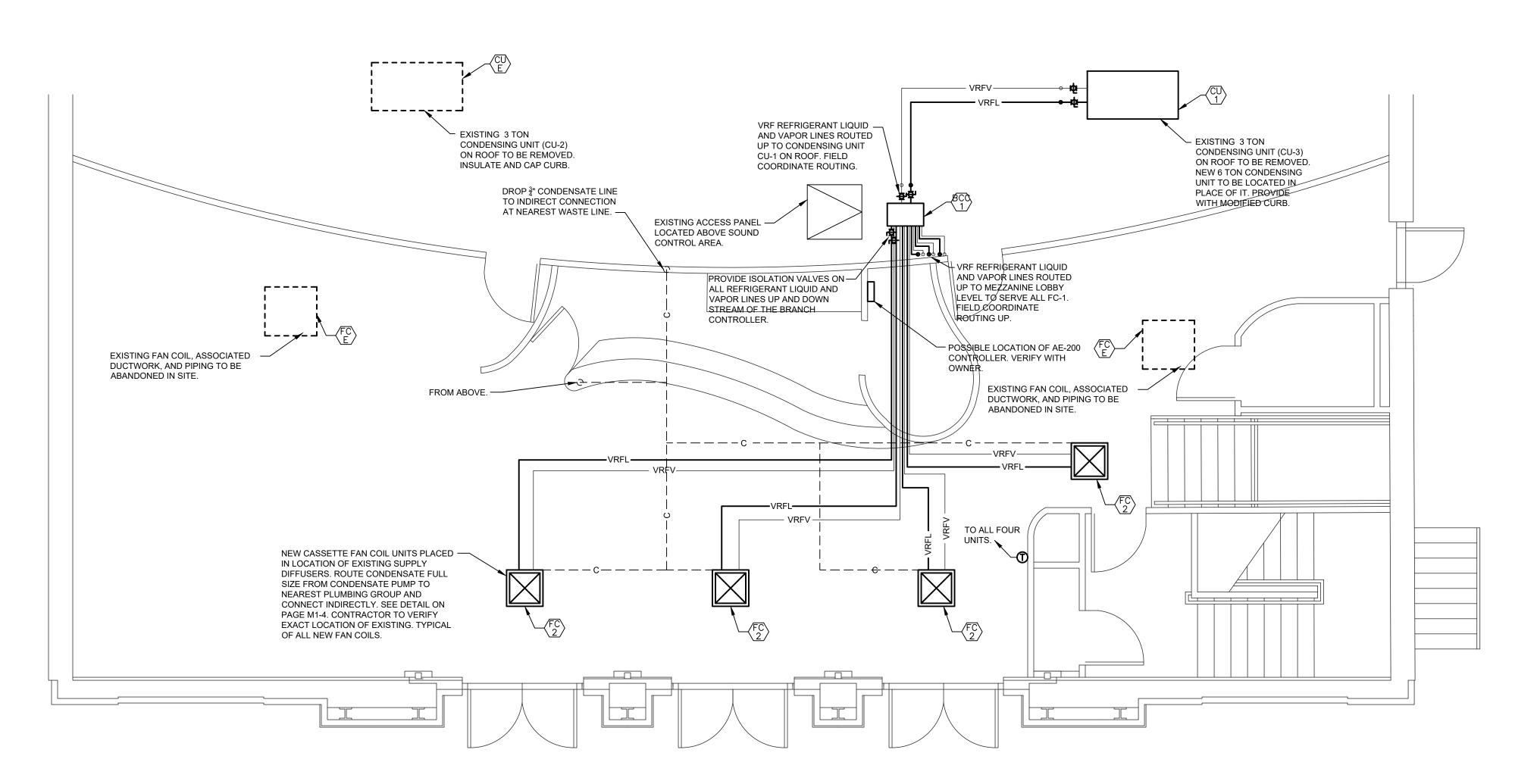
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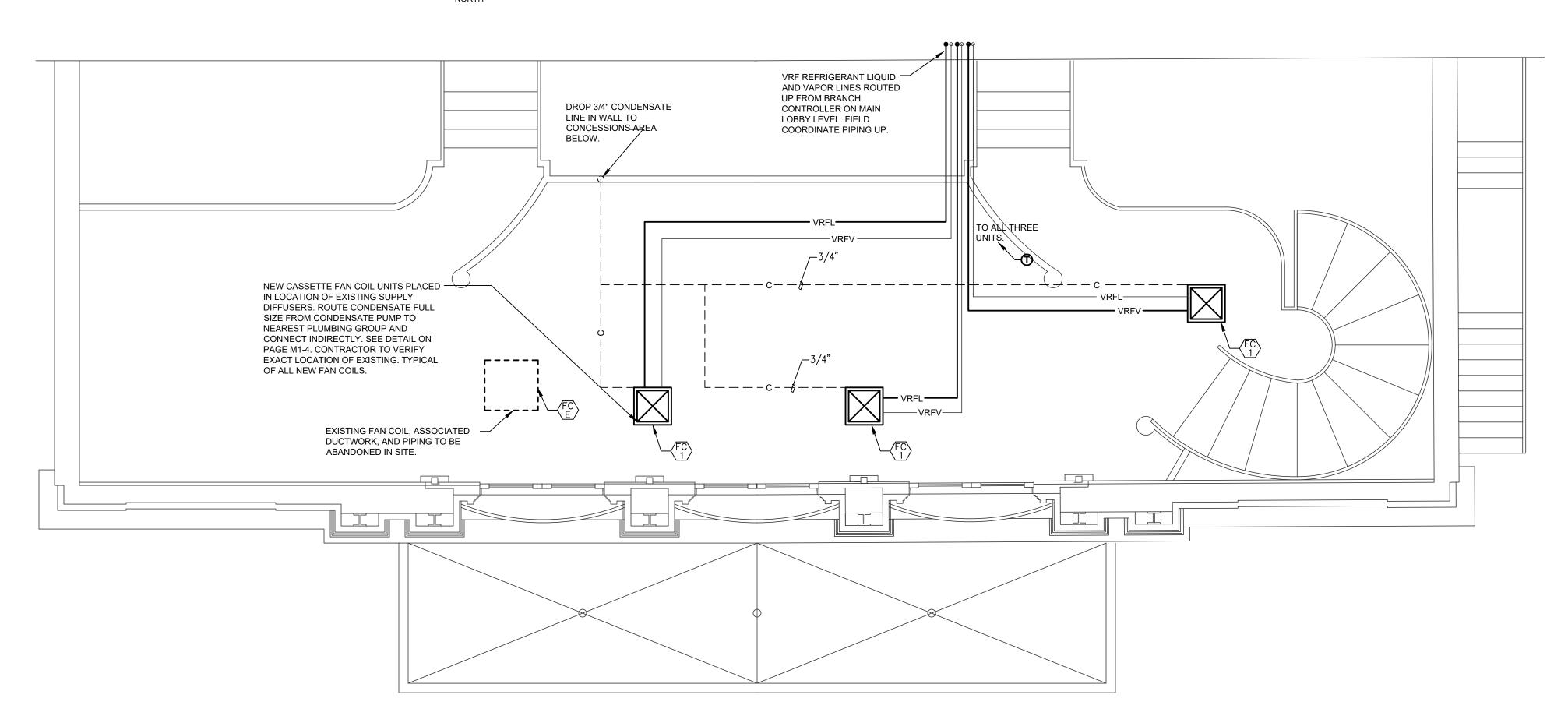
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MECHANICAL GENERAL NOTES:

1. DRAWING IS DIAGRAMMATIC IN NATURE. LOCATIONS AND SIZES MAY VARY DURING FIELD COORDINATION & INSTALLATION OF MECHANICAL, PLUMBING, & ELECTRICAL. DRAWINGS DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.

2. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING MECHANICAL EQUIPMENT AND DUCTWORK.

3. EXISTING FAN COILS, ASSOCIATED DUCTWORK, AND PIPING TO BE ABANDONED IN SITE. EXISTING CONDENSING UNITS ON ROOF TO BE REMOVED.

4. MAIN LOBBY AND MEZZANINE LOBBY TO BE NATURALLY VENTILATED PER 2018 I.M.C SECTION 402.2.

5. IN LOCATIONS WHERE ROOF TOP EQUIPMENT IS TO BE REMOVED, INSULATE AND CAP CURB UNLESS OTHERWISE STATED.

6. NEW RTU-5 AND VRF AE-200 TO BE CONNECTED TO THE EXISTING TRANE TRACER SC SYSTEM AND COM TRUNK IN THE BUILDING. PROVIDE ALL COMMUNICATIONS INTERFACE NECESSARY AND PROVIDE PROGRAMMING AS NEEDED FOR INTERFACE.

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one: (970) 241-8709

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THE AVALON
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DATE: 4-16-20 JOB NO: 20-0

SCALE: AS SHOWN
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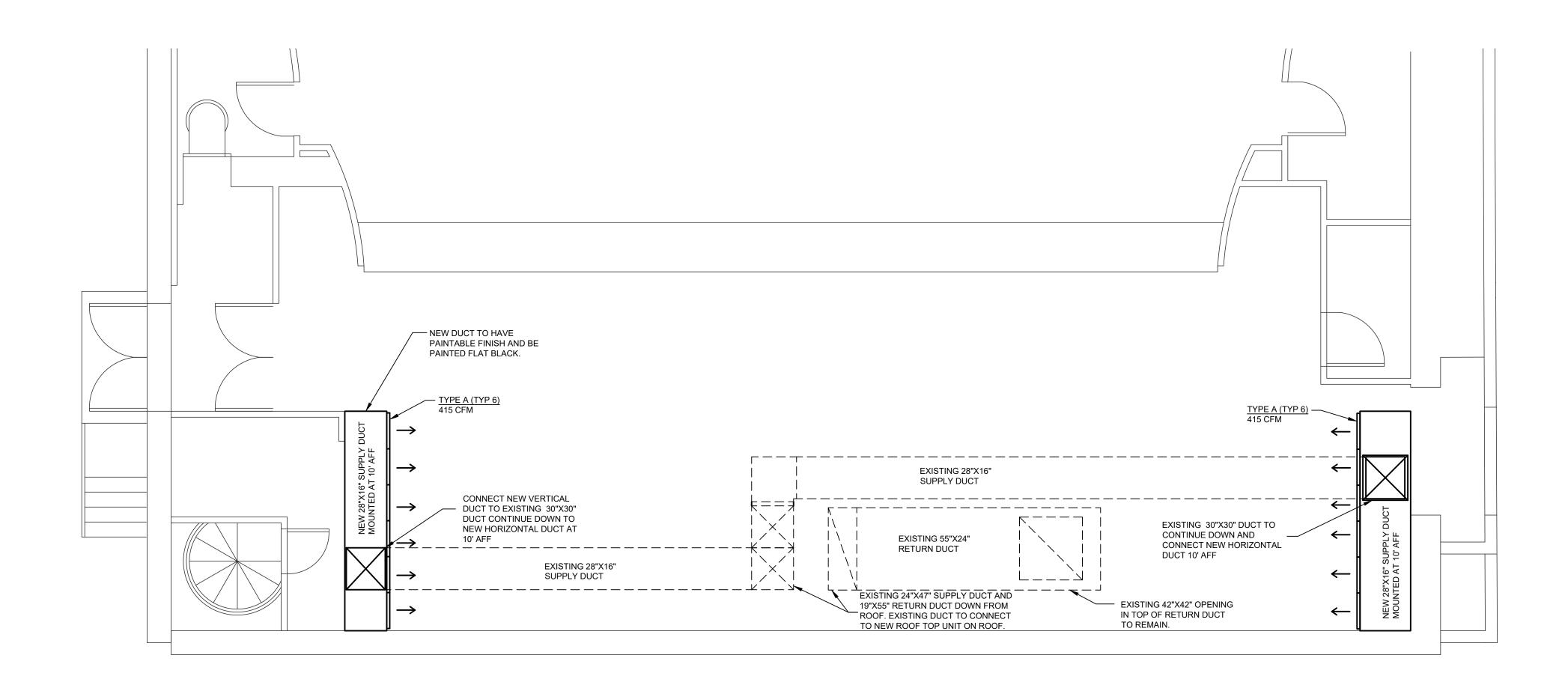
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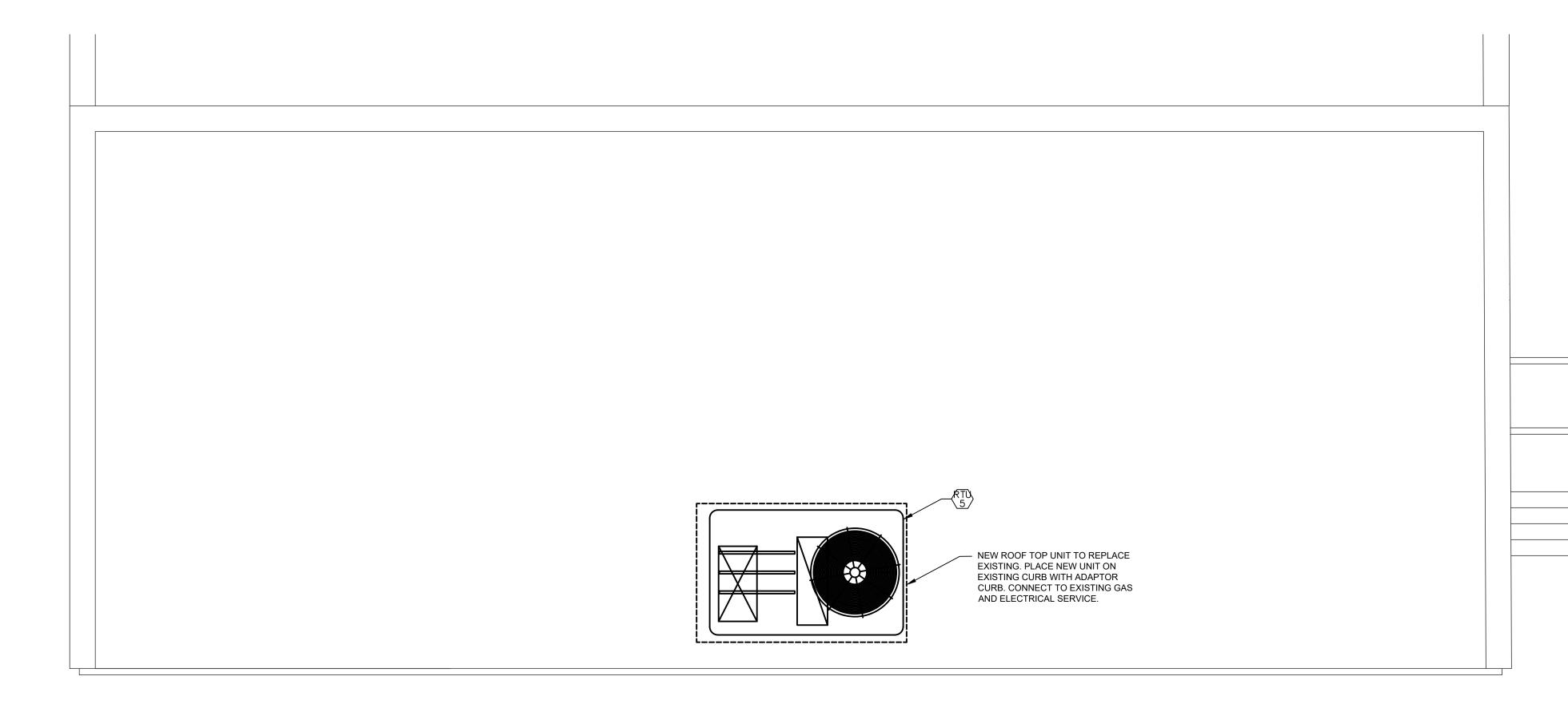


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# MECHANICAL - ROOF PLAN SCALE: 1/4"=1'-0"

## MECHANICAL GENERAL NOTES:

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THE AVALON
LOBBY AND STAGE UPGRADES

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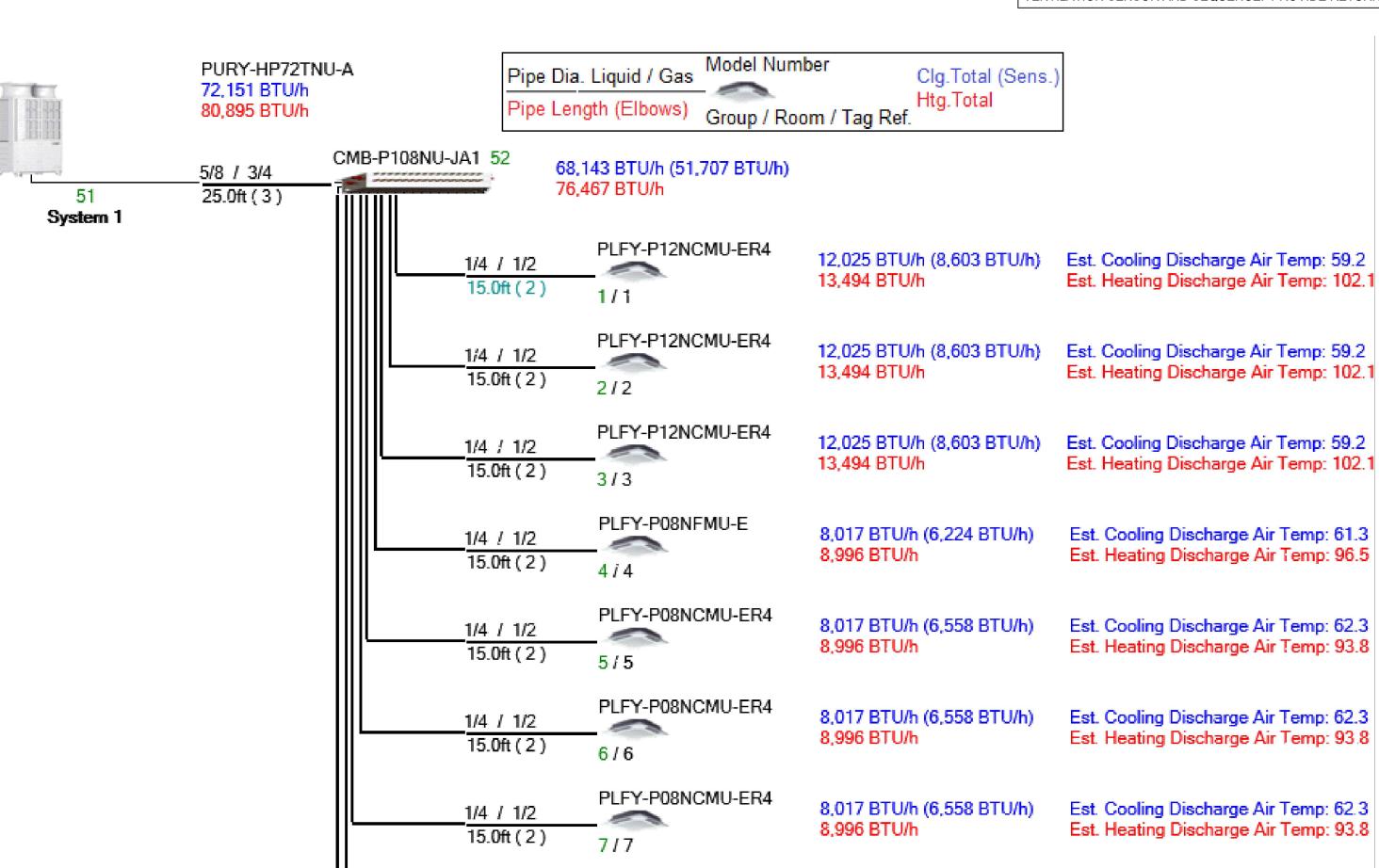
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April 17, 2020 - 8:16:57am

	ROOFTOP AIR HANDLING UNIT SCHEDULE															
		SUPPLY	OUTSIDE	E.S.P.	COOLING	HEATING					ELECTRICAL		UNIT			
EQUIPMENT NO.	SERVICE	AIR (CFM)	AIR (CFM)	(IN. W.G.)	NOM. (TONS)	GAS (CFH)	INPUT (MBH)	OUTPUT (MBH)	FILTERS	EVAP FAN (HP)	V./PH./HZ.	MCA (A)	MOCP (A)	WEIGHT (LBS.)	MANUFACTURER & MODEL OPTIONS /ACCESSORIES	OPTIONS /ACCESSORIES
RTU-5	STAGE	5,000	1,500	1.0	12.5	283	250	200	2" MERV 8	5	208/3/60	61	80	2402	YHD150	NOTE-1
NOTE:																

1. PROVIDE WITH ADAPTER CURB, COIL GUARDS, TCI MODULE, 100% MODULATING ECONOMIZER, POWERED EXHAUST FAN, FACTORY UNITARY CONTROLS, FUSED DISCONNECT SWITCH, HIGH ALTITUDE KIT, POWERED CONVENIENCE OUTLET AND CO2 DEMAND CONTROLLED VENTILATION SENSOR AND SEQUENCE. PROVIDE RETURN DUCT SMOKE DETECTOR WITH AUDIBLE AND VISUAL ALARMS CONNECTED TO THE FIRE ALARM CONTROL PANEL.

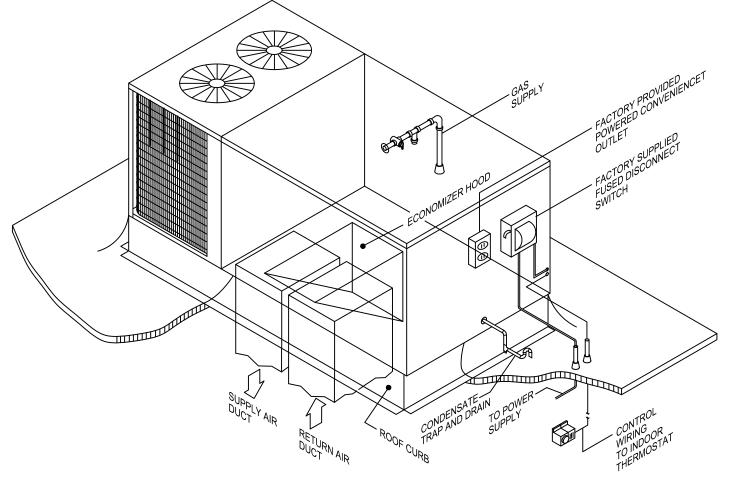


			VF	RF AIR COC	LED COND	ENSING UN	IT SCHEDU	LE			
EQUIPMENT	SERVICE	NOMINAL COOLING	NOMINAL HEATING	REFRIG	. PIPING		ELECTRIC		MANUFACTURER & MODEL	OPTIONS/ACESSORIES	
NO.	SERVICE	CAPACITY (MBH)	CAPACITY (MBH)	LIQUID	VAPOR	V/PH/HZ	MOP (A)	MCA (A)	WANDFACTURER & WODEL	OPTIONS/ACESSORIES	
CU-1	VRF SYSTEM	72	80	5/8	3/4	208/3/60	60	38	MITSUBISHI PURY-HP72TNU-A	NOTE 1	
NOTES:	JE SET AS RECOMME	ENDED BY MANUFACTI	IRER POWER DISCO	NNECT AE-2		I I ER WITH R	ACNET POW	YERED CONV	/ENIENCE OLITI ET	1	

<b>EQUIPMENT</b>	OVOTEMNO	# PDANOU OIDOUITO PED UNIT	LOCATION		ELECTRI	CAL	DIMENSIONS LxWxH INCHES	MANUEACTURE & MORE	OPTIONS/ACCESSORIES
NO.	NO. SYSTEM NO.	# BRANCH CIRCUITS PER UNIT		MCA	МОСР	V./PH./HZ.		MANUFACTURE & MODEL	
BC-1	1	7	MEZZANINE	0.4	1	208/1/60	25"X15.7"X10"	MITSUBISHI CMB-P108NU-JA1	NOTE-1

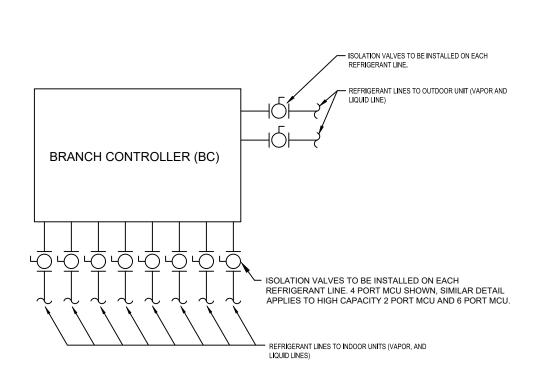
			IND	OOR V	RF UNIT E	EQUIPMEN	T SCHEDUL	.E		
EQUIPMENT NO.	SERVICE	NOMINAL COOLING CAPACITY	NOMINAL HEATING CAPACITY	CFM	REFRIGERANT PIPING DIAMETER		ELECTRICAL		MANUFACTURER & MODEL	OPTIONS/ACCESSORIES
		(BTU/HR.)	(BTU/HR.)		LIQUID	SUCTION	MCA (AMPS)	V./PH./HZ.		
FC-1	MAIN LOBBY	12000	13500	390	1/4	1/2	0.35	208/1/60	PLFY-P12NCMU-ER4	NOTE-1
FC-2	MEZZANINE LOBBY	8000	9000	350	1/4	1/2	0.29	208/1/60	PLFY-P08NCMU-ER4	NOTE-1

	G	RILLE-REC	SISTER-DIFFUSER	SCHEDULE	
EQUIPMENT NO.	SIZE	MODEL	MANUFACTURER	FINISH	OPTIONS/ACCESSORIES
A	8"X24"	520	PRICE	FLAT BLACK	NOTE-1
NOTES:					ILIAL AD ILICTMENT
1. SUPPLY GRILLI DIFFUSER TO BE				BD AND MAN	IUAL ADJUSTMENT.

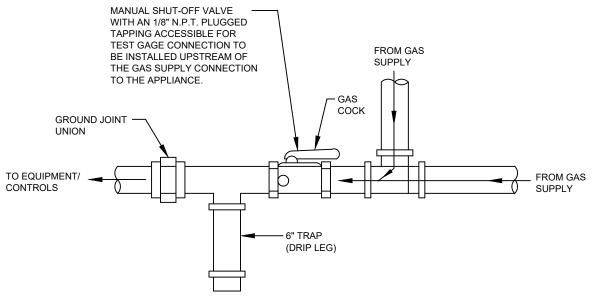


ROOFTOP PACKAGED HVAC UNIT DETAIL

NOT TO SCALE

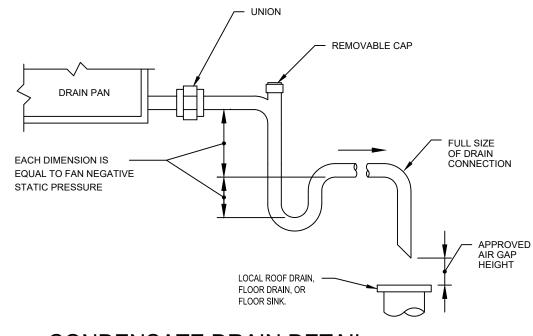


TYPICAL MODE CONTROL UNIT VALVE LAYOUT



GAS CONNECTION TO EQUIPMENT DETAIL

NOT TO SCALE



CONDENSATE DRAIN DETAIL

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THE AVALON
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COND CONDENSATE CONN CONNECTION CONT'N CONTINUATION CONTR CONTRACTOR CP CONDENSATE PUMP CT COOLING TOWER CU CONDENSING UNIT CUH CABINET UNIT HEATER CVB CONSTANT VOLUME BOX CWP CONDENSER WATER PUMP CWR CONDENSER WATER RETURN CWS CONDENSER WATER SUPPLY DA DIRECT ACTING DAMP DAMPER DB DRY BULB DEPT DEPARTMENT DIA DIAMETER DIAG DIAGRAM DIFF DIFFERENTIAL DISCH DISCHARGE DIV DIVISION DIW DOWN IN WALL DL DOOR LOUVER DN DOWN DS DUCT SILENCER DWG DRAWING DWP DOMESTIC WATER PUMP DX DIRECT EXPANSION EA EACH EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR ECC ECCENTRIC EF EXHAUST FAN EFF EFFICIENCY EJ EXPANSION JOINT EL ELEVATION ELEC ELECTRIC ELEV ELEVATOR ENT ENTERING EQ EQUAL **EQUIP EQUIPMENT EQUIVEQUIVALENT** ER EXHAUST REGISTER ES END SWITCH ESP EXTERNAL STATIC PRESSURE ET EXPANSION TANK EWC ELECTRIC WATER COOLER EWT ENTERING WATER TEMPERATURE EX EXHAUST

AND INSTALLED.

SWITCH. SEE THE LIST BELOW

**SWITCHES** 

\$ SINGLE POLE SWITCH

TWO POLE SWITCH

THREE-WAY SWITCH

\$DR DOOR ACTIVATED SWITCH

VACUITY SENSOR SWITCH

\$<sub>OS</sub> MANUAL ON / AUTO OFF LIGHT SWITCH

\$MAD MANUAL ON / AUTO OFF DIMMING LIGHT SWITCH

CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY

\$<sub>MS</sub> UNIT LIGHTING MANAGEMENT CONTROL STATION,

ALL FIXTURES: THE UPPER CASE LETTER INDICATES FIXTURE TYPE RE: THE LUMINAIRE SCHEDULE FOR SPECIFICATIONS, THE LOWER CASE LETTER

ACTUAL FIXTURE ON PLANS MAY VARY FROM THE SYMBOL SHOWN HERE

A 1'x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED

A 2'x2' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED

SINGLE FACE EXIT SIGN, WALL AND CEILING MOUNTED

A O SURFACE CEILING OR PENDANT MOUNTED FIXTURE EX2 DOUBLE FACE EXIT SIGN, WALL AND CEILING MOUNTED

2'x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID,

\$<sub>LV</sub> LOW VOLTAGE LIGHT SWITCH

\$ KEY OPERATED LIGHT SWITCH

\$SC SCENE CONTROL STATION

INDICATES WHICH SWITCH CONTROLS THE LIGHT.

FLANGE OR SURFACE MOUNTED

A ⊫ WALL BRACKET LIGHT FIXTURE

A RECESSED DOWNLIGHT CAN FIXTURE

EM WALL MOUNTED EMERGENCY LIGHT

EMR SEMERGENCY EXTERIOR EGRESS FIXTURE

LIGHT FIXTURES

\$<sub>TO</sub> MANUAL MOTOR STARTER

\$ PILOT LIGHT SWITCH

\$<sub>T</sub> TIMER SWITCH

SENSOR SWITCH

FOUR-WAY SWITCH

\$<sub>D</sub> DIMMER SWITCH

LIGHTING LEGEND

SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATIONS MAY

MAY NOT APPEAR ON THE PROJECT DRAWINGS; HOWEVER, WHEREVER THE

A LOWER CASE LETTER NEXT TO LIGHT FIXTURE OR SWITCH INDICATES A

AN UPPER CASE LETTER NEXT TO A LIGHT FIXTURE INDICATES THE TYPE OF

AN UPPER CASE LETTER NEXT TO A SWITCH INDICATES THE TYPE OF

\$3D 3 WAY DIMMER SWITCH - (4D INDICATES A 4WAY DIMMER)

WALL MOUNTED DUAL TECHNOLOGY MANUAL ON / AUTO OFF

FIXTURE. REFER TO THE LUMINAIRE SCHEDULE FOR FIXTURE

SYMBOL ON THE PROJECT DRAWINGS OCCUR; THE ITEM SHALL BE PROVIDED

BE USED ON THE PLANS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL

EXPAN EXPANSION EXT EXTERNAL F DEGREES FAHRENHEIT F/D FIRE DAMPER F/S/D WITH FIRE/SMOKE DAMPER ACCESS DOOR FA FROM ABOVE FA FREE AREA FB FROM BELOW FC FAIL CLOSED FCU FAN COIL UNIT FCV FLOW CONTROL VALVE FD FLOOR DRAIN FD FIRE DAMPER FIN FINISHED FL FLANGE FLA FULL LOAD AMPS FLEX FLEXIBLE FLR FLOOR FO FAIL OPEN FOB FLAT ON BOTTOM FOP FUEL OIL PUMP FOT FLAT ON TOP FP FIRE PROTECTION FP FIRE PUMP FPM FEET PER MINUTE FPS FEET PER SECOND FRICT FRICTION FS FLOW SWITCH FT FEET FTR FINNED TUBE RADIATION FV FACE VELOCITY FX FLEXIBLE CONNECTION FXC FLEXIBLE CONNECTION GA GAUGE GAL GALLON GALV GALVANIZED GC GENERAL CONTRACTOR GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GR GRILLE GRS/LB GRAINS PER POUND H 20 WATER HB HOSE BIBB HD HAND DAMPER HD HEAD (SEE SCHEDULES) HP HORSEPOWER HP HEAT PUMP HR HOUR

HT HEIGHT HTR HEATER HV HEATING AND VENTILATING UNIT HWC HOT WATER CONVERTER HWP HOT WATER PUMP HWR HEATING HOT WATER RETURN HWS HEATING HOT WATER SUPPLY HX HEAT EXCHANGER HZ HERTZ ID INTERNAL DIAMETER ID INSIDE DIAMETER IN INCHES INCL INCLUDING INV INVERT KW KILOWATT L LENGTH LAT LEAVING AIR TEMPERATURE LB POUND LD LINEAR DIFFUSER LF LINEAR FEET LIN LINEAR LIQ LIQUID LRA LOCK ROTOR AMPS LVR LOUVER LWT LEAVING WATER TEMPERATURE LWT LEAVING WATER TEMPERATURE MBH THOUSANDS OF BTU PER HOUR MC MECHANICAL CONTRACTOR MFR MANUFACTURER MH MANHOLE MIN MINIMUM MISC MISCELLANEOUS MOD MOTOR OPERATED DAMPER MTD MOUNTED MUA MAKE-UP AIR UNIT NC NORMALLY CLOSED NEG NEGATIVE

NIC NOT IN CONTRACT

NO NORMALLY OPEN

NO NORMALLY OPEN

NTS NOT TO SCALE

OAI OUTSIDE AIR INTAKE

BRANCH CIRCUIT PANELBOARD

C ELECTRIC MOTOR

└── MOTOR STARTER

CONTACTOR

TELEPHONE TERMINAL BOARD

ELECTRICAL EQUIPMENT LEGEND

LA-7 CIRCUITRY HOMERUN: PANEL LA - CIR. #7

CONDUIT OR WIRE CONCEALED IN WALL/CLG.

———— CONDUIT OR WIRE UNDERFLOOR/UNDERGND.

CIRCUIT BREAKER IN A PANEL BOARD

FUSED DISCONNECT

2P = NUMBER OF POLES

PP1= PANEL NAME

120/208V = PANEL VOLTAGE

CEILING JUNCTION BOX - SURFACE/FLUSH

WALL JUNCTION BOX - SURFACE/FLUSH

FLOOR MOUNTED RECEPTACLE

FOURPLEX RECEPTACLE

SPLIT WIRED DUPLEX RECEPTACLE

APPLIANCE RECEPTACLE - 3 WIRE

 $\Psi_{\mathsf{GFCI}}$  GROUND FAULT CIRCUIT INTERRUPTER

₩CW RECEPTACLE MOUNTED IN CASEWORK

OPEN/CLOSE/STOP PUSH BUTTON

ELECTRIC HAND DRYER

THERMOSTAT

CEILING MOUNTED DUPLEX RECEPTACLE

FLOOR MOUNTED FOURPLEX RECEPTACLE

₩USB RECEPTACLE WITH USB CHARGING CAPABILITES

RECEPTACLE MOUNTED ABOVE COUNTER

DUPLEX RECEPTACLE

100A = AMP RATING

FUSED DISCONNECT

225A MLO 225A MLO

3PH, 4W 3PH, 4W

 $\Rightarrow$ 

PAD MOUNTED UTILITY TRANSFORMER

ELECTRICAL METER SHOWN IN PLAN VIEW

225A MLO = MAIN LUG OR BREAKER SIZE

3PH, 4 WIRE = PANEL PHASE AND WIRE SIZE

ELECTRICAL DEVICE LEGEND

ELECTRICAL POWER PANEL WITH MAIN LUG OR MAIN BREAKER

F FUSED SAFETY SWITCH / DISCONNECT COMBINATION

MAIN DISTRIBUTION GEAR

OA OUTSIDE AIR

NO NUMBER

NOM NOMINAL

OB OFF BOTTOM

OC ON CENTER

OCC OCCUPIED

OPG OPENING

OT OFF TOP

OZ OUNCE

PART PARTIAL

PDR PLENUM DRAIN

PERF PERFORATED

PNEU PNEUMATIC

PRESS PRESSURE

PV PLUG VALVE

QUAN QUANTITY

R REGISTER

RA RETURN AIR

RD ROOF DRAIN

REL RELIEF

REQD REQUIRED

RF RETURN FAN

RHC REHEAT COIL

RIW RISE IN WALL

RM ROOM

RH RELATIVE HUMIDITY

RICW RUN IN CASEWORK

RIE RUN IN ENCLOSURE

RLA RATED LOAD AMPS

RPM REVOLUTIONS PER MINUTE

RET RETURN

RAG RETURN AIR GRILLE

RAR RETURN AIR REGISTER

PVC POLYVINYL CHLORIDE

POS POSITIVE PRESS

PS PRESSURE SWITCH

PH PHASE

OD OUTSIDE DIMENSION

OD OUTSIDE DIAMETER

OAT OUTSIDE AIR TEMPERATURE SA SUPPLY AIR SAD SUPPLY AIR DIFFUSER OBD OPPOSED BLADE DAMPER SAR SUPPLY AIR REGISTER SCG SMOKE CONTROL GRILLE SCH SCHEDULE SCHEM SCHEMATIC SD SMOKE DAMPER OGH OUTSIDE GROUND HYDRANT SEF SMOKE EXHAUST FAN SF SUPPLY FAN SH SENSIBLE HEAT SP STATIC PRESSURE SPEC SPECIFICATION PBD PARALLEL BLADE DAMPER SQ SQUARE PD PRESSURE DROP (SEE SCHEDULE) SS STAINLESS STEEL STD STANDARD STM STEAM STR STRUCTURAL SUCT SUCTION SYS SYSTEM PRV PRESSURE REDUCING VALVE TAD TRANSFER AIR DUCT TDH TOTAL DYNAMIC HEAD PSI POUNDS PER SQUARE INCH TEMP TEMPERATURE PT PRESSURE TRANSMITTER TG TRANSFER GRILLE PTAC PACKAGED TERMINAL AIR CONDITIONER THT TOTAL HEAT TP TOTAL PRESSURE TYP TYPICAL UC UNDERCUT UH UNIT HEATER UNOCC UNOCCUPIED UON UNLESS OTHERWISE NOTED RCP REFLECTED CEILING PLAN V VOLTS VA VALVE RE ROUNDED ENTRANCE/EXIT VAV VARIABLE AIR VOLUME UNIT VB VACUUM BREAKER VD VOLUME DAMPER VEL VELOCITY VI VIBRATION ISOLATOR VOLT VOLTAGE VTR VENT THRU ROOF W WIDTH W/ WITH W/O WITHOUT WB WET BULB WB WET BULB ROD ROOF OVERFLOW DRAIN WC WATER COLUMN

TT TEMPERATURE TRANSMITTER

WG WATER GAUGE WMS WIRE MESH SCREEN

FIRE ALARM EQUIPMENT LEGEND

FIRE ALARM PULL STATION

FIRE ALARM HORN FIRE ALARM STROBE FIRE ALARM HORN/STROBE CEILING MOUNTED SPEAKER (D)---- DUCT DETECTOR REMOTE LAMP

SMOKE DETECTOR - STANDARD 135° STANDARD HEAT DETECTOR M1 PIR DETECTOR FLOW SWITCH

TAMPER SWITCH

COMMUNICATION LEGEND

CLOCK ONLY  $\bigcirc \bigcirc$ CLOCK / PA SPEAKER WALL MOUNTED ROUND CEILING MOUNTED SPEAKER SQUARE SPEAKER

INTERCOM PUSH TO CALL SWITCH WIRELESS ACCESS POINT ABOVE THE CEILING PROJECTOR

ABOVE THE CEILING PROJECTOR CONNECTION WALL MOUNTED HDMI

PLAIN DATA OUTLET PLAIN DATA OUTLET WITH MOUNTING HEIGHT

SECURITY SYSTEM LEGEND

SECURITY CAMERA

ADA DOOR OPERATOR PUSH BUTTON

SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATION MAY BE USED ON THE PLANS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS; HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCUR; THE ITEM SHALL BE PROVIDED AND INSTALLED.

VARIATION AND/OR COMBINATION MAY BE USED ON THE PLANS SUCH AS A LOWER CASE LETTER NEXT TO A SWITCH INDICATES THE SWITCH DESIGNATION. A NUMBER NEXT TO A

- ELECTRIC UTILITY TO ADVISE OWNER AND/OR THE ELECTRICAL ENGINEER, PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER. COORDINATE THE LOCATION OF LIGHTING EQUIPMENT INCLUDING BUT NOT LIMITED TO
- ALL WIRE TO BE #12 UNLESS NOTED OTHERWISE. COORDINATE THE MOUNTING HEIGHTS OF ALL RECEPTACLES MOUNTED ABOVE
- COUNTERS, CASEWORK AND APPLIANCE RECEPTACLES WITH ARCHITECTURAL
- ALL BRANCH CIRCUITS WITH HOME RUNS OVER 50 FEET, WILL BE SIZED ONE SIZE
- APPLICABLE LOCAL CODES. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWING, FIELD VERIFY ALL
- COORDINATE LUMINAIRE MOUNTING REQUIREMENTS PRIOR TO PLACING ORDER. ). ALL STAIRWELLS AND PATHS OF EGRESS TO THE EXTERIOR DOORS, AND THE EXTERIOR PATH OF EGRESS AWAY FROM THE BUILDING SHALL RECEIVE EMERGENCY
- . VERIFY THE OVERALL HEIGHT OF ALL PENDANT MOUNTED FIXTURES PRIOR TO 3. THE LIGHTING PACKAGE SHALL BE APPROVED BY BOTH ARCHITECTS AND ENGINEERS

$\langle AA \rangle$	DRAWING KEYED NOTES
ROOM 100	ROOM DESIGNATION
N.II	NICHT/SECURITY LICHT

44" MOUNTING HEIGHT - A.F.F. OR A.F.G. TO C.L. HIGH GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

WITH A WEATHER PROOF COVER GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTED AT 44" ABOVE FINISHED FLOOR

**GENERAL NOTES:** 

1) UNDER DIVISION 23 IF FURNISHED FACTORY-WIRED AS PART OF EQUIPMENT OR IF

2) IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26.

WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS

AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER

FURNISHED WITH COMBINATION STARTERS.

UNLESS OTHERWISE INDICATED ALL HEATING. VENTILATING. AIR CONDITIONING. PLUMBING.

PLACE AND WIRED AS FOLLOWS:

**EQUIPMENT** 

CONTACTORS

STARTERS

SWITCHES

COMBINATION MAGNETIC

MOTOR STARTERS AND

FUSED AND UNFUSED

DISCONNECT SWITCHES,

MANUAL-OPERATING AND

MULTI-SPEED SWITCHES

CONTROLS, RELAYS, TRANSFORMERS

AND TIME SWITCHES

MOTOR STARTERS, MAGNETIC

THERMAL OVERLOAD SWITCHES

AND HEATERS, MANUAL MOTOR

THERMOSTATS (LOW VOLTAGE)

THERMOSTATS(LINE VOLTAGE)

MOTOR AND SOLENOID VALVES

DAMPER MOTORS, PE & EP

**PUSH-BUTTON STATIONS** 

AND PILOT LIGHTS

HEATING, COOLING,

VENTILATION AND AIR

CONDITIONING CONTROLS

**EXHAUST FAN SWITCHES** 

TEMPERATURE CONTROL PANELS

AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN

FURNISHED

SET

POWER

CONTROL

23(2)

23(2)

- FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. CONTRACTORS
- DEVICE INDICATES A CIRCUIT NUMBER BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN
- THE LUMINAIRES AND SWITCHES WITH THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ALL OTHER TRADES AS REQUIRED.

- ALL ELECTRICAL WORK TO COMPLY WITH LATEST EDITION OF NEC AND ALL
- CONDITIONS PRIOR TO ROUGH-IN.
- LIGHTING PER CODE. THE LIGHTS IN ALL RESTROOMS, STORAGE CLOSETS, JANITORS CLOSETS AND STAIRWELLS ARE TO BE SWITCHED WITH A MOTION SENSOR ON/OFF SWITCH WITH A TIME DELAY, THE TIME DELAY LENGTH AS DIRECTED BY THE OWNER, EXCEPT IN AREA WHERE THE SWITCH IS LOCATED OUTSIDE THE AREA WHERE THE LIGHT IS LOCATED.
- AS APPROVED EQUAL BEFORE BID

|--|

A	DRAWING KEYED NOTES
OM 00	ROOM DESIGNATION
L	NIGHT/SECURITY LIGHT - DO NOT SWITCH
/P	WEATHERPROOF
F.	ABOVE FINISHED FLOOR
C.	ABOVE COUNTER
CI	GROUND FAULT CIRCUIT INTERRUPTER
:W	COORDINATE MOUNTING HEIGHT W/ CASEWORK
M	EMERGENCY FUNCTION

DRAWN BY: CHECKED BY:

April 17, 2020 - 8:17:02am

SCALE:

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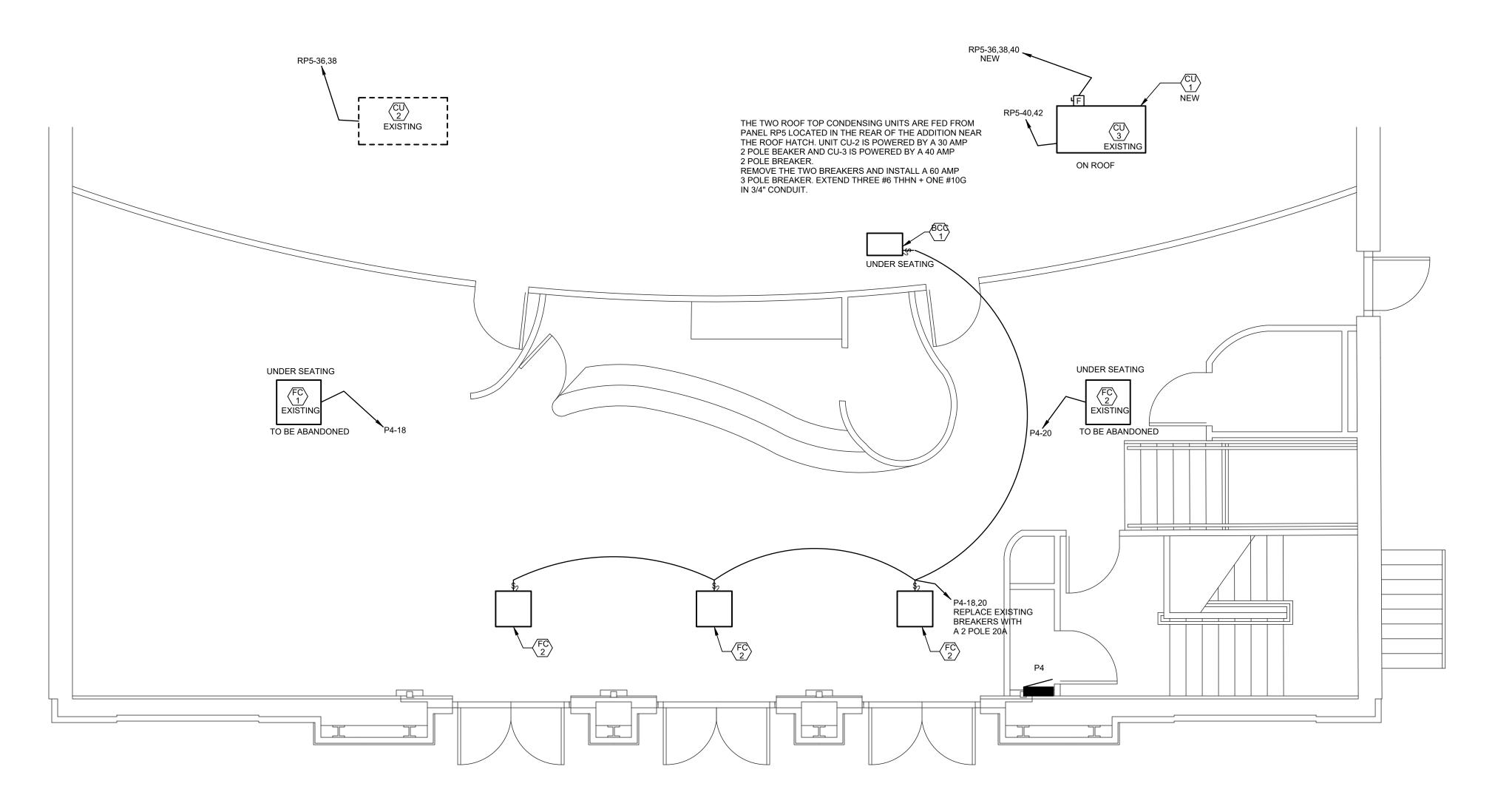
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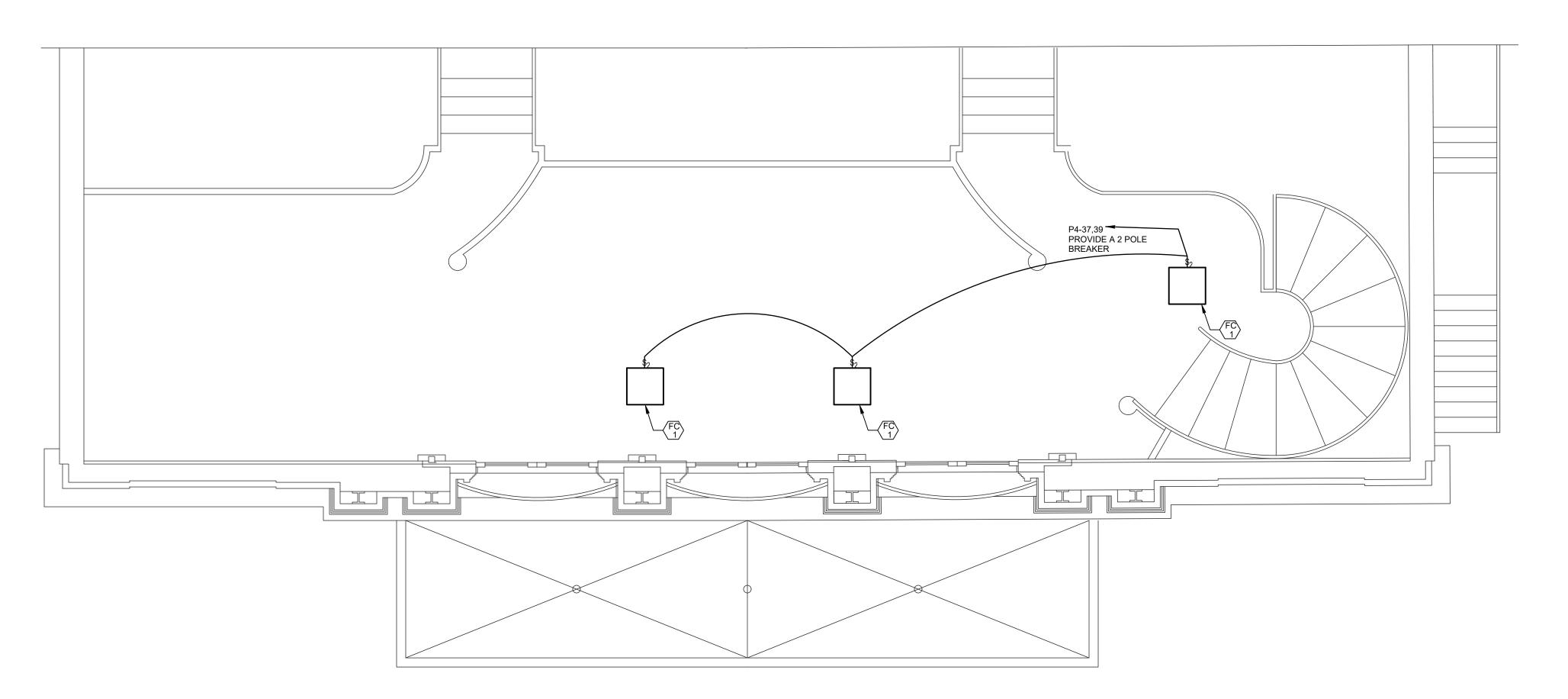
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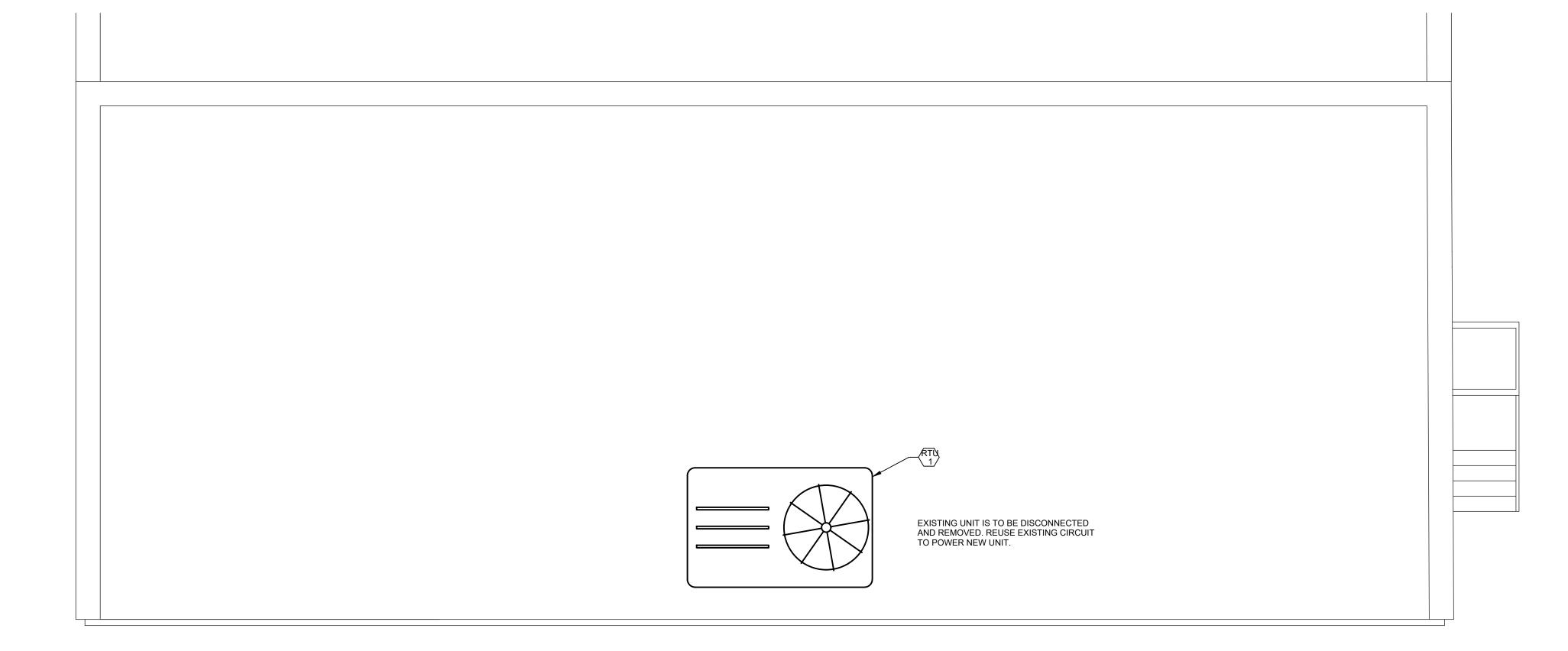




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MECHANICAL EQUIPMENT SCHEDULE												
COMB: MAG:	COMBINATION MOTOR STARTER MAGNETIC MOTOR STARTER											
UNIT	FUNCTION	LOAD	VOLTS	Ø	FULL LOAD			H CIRCUIT GRND BRKR		START	DISC	
NO	NO (NOTES)				AMPS	CONDUIT SIZE	NO.	WIRE SIZE	WIRE SIZE	SIZE		FUSE
BC 1	BRANCH SELECTOR		208	1	0.4A	1/2"	2	12	12	20A	NR	<b>\$</b> 2
CU 1	CONDENSING UNIT		208	3	38A	1"	3	6	10	60A	NR	60 60
FC 1	FAN COIL UNIT		208	1	0.35A	1/2"	2	12	12	20A	NR	<b>\$</b> <sub>2</sub>
FC 2	FAN COIL UNIT		208	1	0.29A	1/2"	2	12	12	20A	NR	<b>\$</b> <sub>2</sub>
RTU 1	ROOF TOP UNIT		208	3	61.0A	1.25"	3	4	6	80A	NR	100 80





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201	Phone: (970) 241-8709	Bighorn Consulting Engineers, Inc.
THE AVALON	LOBBY AND STAGE UPGRADES	645 MAIN STREET
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