



**RFP NO. 322010**

DANE COUNTY DEPARTMENT OF ADMINISTRATION

**PUBLIC WORKS  
ENGINEERING DIVISION**  
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

**REQUEST FOR PROPOSALS NO. 322010  
ARCHITECTURAL / ENGINEERING DESIGN SERVICES FOR  
PAVILIONS NO 1 & NO 2 UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY WAY  
MADISON, WISCONSIN**

**ISSUED FOR PROPOSALS: FEBRUARY 22, 2022**

Due Date / Time: **TUESDAY, MARCH 29, 2022 / 2:00 P.M.**

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FOR INFORMATION ON THIS REQUEST FOR PROPOSALS, PLEASE CONTACT:

ERIC URTE, AIA - PROJECT MANAGER  
TELEPHONE NO.: 608/266-4798  
E-MAIL: [urtes.eric@countyofdane.com](mailto:urtes.eric@countyofdane.com)



Department of Administration  
**Public Works Engineering Division**

608/266-4018

Greg Brockmeyer  
Director of Administration

Joseph T. Parisi  
County Executive

Director of Public Works  
Todd Draper

1919 Alliant Energy Center Way  
Madison, Wisconsin 53713  
Fax: 608/267-1533

[https://pwht.countyofdane.com/public\\_works.aspx#engineering](https://pwht.countyofdane.com/public_works.aspx#engineering)

February 22, 2022

## INVITATION FOR PROPOSALS

You are invited to submit a Proposal for RFP No. 322010 to provide professional architectural & engineering, design services for Pavilion Upgrades for the Alliant Energy Center Pavilions No 1 & 2. The Proposals are due on or before **2:00 p.m., Tuesday, March 29, 2022**. No performance bond is required for this project.

## SPECIAL INSTRUCTIONS

Please provide the entire proposal package in these formats: three (3) bound hard copies and an electronic version on a USB flash drive (or compact disk). Follow these instructions when submitting your proposal:

1. Place the signed Proposal Form on top as page 1.
2. Place the signed Fair Labor Practices Certification after the Proposal Form as page 2.
3. Place the Proposal information after Fair Labor Practices Certification.
4. Clearly label your envelope containing your proposal in the lower left-hand corner as follows:

**Proposal No. 322010**  
**Pavilions No 1 & No 2 Upgrades**  
**March 29, 2022 by 2:00 p.m.**

5. Mail or deliver to:  
Eric Urtes, AIA-Project Manager  
Dane County Public Works Engineering Division  
1919 Alliant Energy Center Way  
Madison, Wisconsin 53713

Use the drop box just outside our Office if you choose to hand deliver. If you need any additional information about this Request for Proposals, please call Eric Urtes, AIA, at 608/266-4798 or send email to [urtes.eric@countyofdane.com](mailto:urtes.eric@countyofdane.com).

Sincerely,

*Eric Urtes, AIA*

Project Manager

Enclosure: Request for Proposals No. 322010 Package



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END OF SECTION

SECTION 01 11 19

REQUEST FOR PROPOSAL

**LEGAL NOTICE**

Dane County Public Works, 1919 Alliant Energy Center Way, Madison, WI 53713, will receive sealed Proposals until:

**2:00 P.M., TUESDAY, MARCH 29, 2022**

**RFP NO. 322010**

**PAVILIONS NO 1 & NO 2 UPGRADES**

**ALLIANT ENERGY CENTER**

**1919 ALLIANT ENERGY WAY, MADISON, WI**

Dane County is inviting Proposals for professional architectural & engineering design services related to fire protection, radiant heating, electrical, and associated controls upgrades to Pavilions No 1 and No 2 at Alliant Energy Center. Only firms with capabilities, experience & expertise with similar projects should obtain this RFP document & submit Proposals.

RFP document may be obtained after **2:00 p.m., February 22, 2022** from [bids-pwht.countyofdane.com](https://bids-pwht.countyofdane.com). Call Eric Urtes, AIA, Project Mgr., 608/266-4798, or our office, 608/266-4018, with any questions.

Informational facility tour will be March 8, 2022 at 10:00 a.m. at the Alliant Energy Center Pavilions, 1919 Alliant Energy Way, Madison. Interested firms are strongly encouraged to attend this tour. See RFP for mandatory disease transmission prevention practices.

**PUBLISH:    FEBRUARY 22 & MARCH 1, 2022 - WISCONSIN STATE JOURNAL**  
**FEBRUARY 21 & FEBRUARY 28, 2022 - THE DAILY REPORTER**

## SECTION 00 24 16

### SCOPES OF PROPOSALS

#### 1. GENERAL INFORMATION

- A. Dane County is inviting proposals for professional architectural and engineering (A/E) design services for the Alliant Energy Center – New Holland Pavilions No 1 & No 2 Upgrades for event exhibits. Updates include establishment of fire protection (dry system) to extend to cover the outside canopies on both sides of both Pavilions, electrical upgrades to provide additional service within the interior exhibit stall areas to reduce the use of horizontal extension cords (and will include panel + breaker modifications to existing service), installation of radiant heat in Pavilion 2 (already included in Pavilion 1) along with associated controls system upgrades to improve remote staff supervision and other exhibit area modifications/improvements to serve the year-round needs of cattle, horse, and other animal shows.
- B. The Alliant Energy Center hosts a variety of events that utilize the New Holland Pavilions; including the World Dairy, Mid-West Horse Fair, Dane County Fair, and many other annual agriculture and animal exhibitions. Significant upgrades are needed to provide heating, additional ventilation/cooling, fire protection, electrical, and associated control systems to serve the year-round needs of cattle, horse, and other animal shows. These shows have distinct requirements for care, grooming, assessment, showing, and housing. Specifically, these upgrades will help add more than 600 in-stall electrical receptacles, radiant and forced air heating equipment, physical plant power distribution improvements, fan/cooling/air movement equipment, a dry-chemical fire suppression system to protect storage areas for bedding, food, tack, and equipment, and upgraded air filtration equipment.
- C. To be considered for this project, the Consultant must meet or exceed the following criteria:
1. Have at least one registered architect & one registered professional engineer as lead responsible members of the firm or project team.
  2. Have been in business for a period of not less than five (5) years.
  3. Must have been responsible for the design and completion of at least three (3) projects of similar design scope and size of the Alliant Energy Center Pavilions No.1 & No. 2 Upgrades.
  4. Consideration may be given to joint ventures consisting of two or more firms organized for the purpose of furnishing professional services as a single entity, providing the assignment of and provisions for continuity of the various responsibilities within the joint venture are approved by the County, and further providing that either of the individual firms constituting the joint venture meets the eligibility requirements listed above.

#### 2. SCOPE OF WORK

- A. The *Professional Services Agreement* details project deliverables and specific tasks.
- B. Study Phase:
1. Refer to existing drawings for dimensions, layout, and work location for each of Three (3) Request-for-Bids packages. Define a scope of work with County to establish

important issues and priorities. Prepare on-site condition assessment with scheduled access, dates, and times with County.

2. Develop schematic drawings and specifications for the three Request for Bids to be issued (per D. Bidding Documents following below). Review findings with County. Provide Opinion of Probable Cost (OPC).

#### C. Design Development

1. Attend on-site kick-off meeting, time and date to be decided.
2. Prepare preliminary drawings summarizing findings from site inspection
3. Develop preliminary specifications, this does NOT include front-end bidding documents which will be developed by Public Works..
4. Drawings with specifications to be reviewed by County.
5. Provide revised Opinion of Probable Cost (OPC).

#### D. Bidding Documents

1. Revise preliminary drawings with specifications from County.
2. Develop final construction documents (Drawings and Specifications) based on County review of preliminary design drawings and specs. Contact potential bidders. County will provide Front End Documents and post the Request for Bid Package on the Dane County Website and receive the bids.
3. Develop three (3) separate Request for Bid (RFB) Packages for each of the following:  
**RFB No.1:** Electrical upgrades to provide additional service within the interior exhibit stall areas to reduce the use of horizontal extension cords (and will include panel + breaker modifications to existing service).  
**RFB No. 2:** Establishment of fire protection (dry system) to extend to cover the outside canopies on both sides of both Pavilions,  
**RFB No. 3:** Installation of radiant heat in Pavilion 2 (already included in Pavilion 1) to include addition/ upgrade of DDC Building Automation system to include major mechanical systems in Pavilions. Provide hardware/software for complete BAS to allow for integration of all facilities on AEC campus.

#### E. Construction Administration

- a. Attend pre-bid, pre-construction, and progress meetings with the selected Contractor for each of the three RFB projects. A/E shall issue Construction Bulletins, handle Requests for Information, review Change Order requests, review Pay Applications from the Contractor, and develop Punch-Lists for each project.
2. Provide for 2 on-site visits and time for associated construction administration services related to the visits (photo documentation, e-mail memos, etc.) for each of the three RFB projects issued.

#### F. In-person meetings shall be limited & shall follow current *Public Health - Madison & Dane County* procedures & recommendations (see

[publichealthmdc.com/documents/office\\_space\\_checklist.pdf](http://publichealthmdc.com/documents/office_space_checklist.pdf) and [publichealthmdc.com/coronavirus/forward-dane/current-order](http://publichealthmdc.com/coronavirus/forward-dane/current-order)). The consultant may host meetings via teleconference or videoconference. Dane County reserves right to mandate safe physical distancing & use of facemasks by all personnel while inside any County facility or on any County grounds.

### 3. PROPOSAL CONTENT

- A. Interested consultants shall submit the following information in their proposal, in eight, sections or divisions:
1. Proposal Form, Fair Labor Practices Certification and Proposer's cover letter.
  2. Description of firm's qualifications, related experience, organization and resources.
  3. Brief list (min. of three, max. of five) of similar completed projects with the project details, name, address and telephone number of the clients. Make specific reference to projects involving public facilities as is being proposed. You may separately list additional professional references.
  4. Description of planning and design techniques for approaching the project.
  5. List of staff that will be committed to the Work with their professional resumes. Dane County may interview short-listed firms' principal design team. Include listing of other consultants who may participate in this project and their area of expertise.
  6. Indicate staff availability and tentative timetable with project tasks for the Work, including all project phases.
  7. Cost for services stated as lump sum fixed fee (not-to-exceed price without authorization by Public Works during the project development) and include hourly rates for the design services included in the associated work in the lump sum fixed fee.
  8. State clearly any limitations you wish to include and detail any conditions that you may have with the *Professional Services Agreement*.

### 4. EVALUATION CRITERIA

- A. Proposing consultants will be evaluated on this criteria:

Project Personnel	25%
Relative Experience	35%
Past Project References	20%
Planning Process	10%
Pricing / Cost Proposal	<u>10%</u>
Total	100%

### 5. PRICING

- A. The *Professional Services Agreement* details additional information about project phases, pricing & payments.
- B. Submit cost for services stated as lump sum fixed fee.

## 6. FACILITY TOUR

- A. A proposing firm facility tour will be on March 8, 2022 at 10:00 a.m. at the Alliant Energy Center Pavilions, 1919 Alliant Energy Way, Madison, Wisconsin. This walk-through tour with AEC facility Staff will go until approximately 11:00 a.m.. Proposing companies are strongly encouraged to attend this tour, however attendance is optional.
- B. Safe distancing & facemasks are required for all tour attendees.

## 7. OWNER'S RESPONSIBILITY

- A. Dane County will provide all available building, site, architectural, structural, mechanical, electrical, plumbing, telecommunications, fire protection, and security drawings and specifications to selected A/E firm. These drawings and specifications may not be complete or in an as-built condition. A/E firm will need to confirm accuracy of drawings and specifications. Dane County will provide any necessary hazardous material protection, testing or abatement.

## 8. TIMETABLE

- A. This project's specific and estimated dates and times of events are below. Some of the events below have specific completion dates. In the event that Dane County finds it necessary to change any of the specific dates and times in the calendar of events listed below, it will do so by issuing an addendum to this RFP. There may or may not be a formal notification issued for changes in the estimated dates and times.

<u>DATE</u>	<u>EVENT</u>
February 22, 2022	RFP issued
March 8, 2022 - 10:00 a.m.	Facility tour
March 22, 2022 - 2:00 p.m.	Written inquiries due
March 24, 2022	Latest addendum (if necessary)
March 29, 2022 - 2:00 p.m.	Proposals due
Date April 5, 2022 (estimated)	Notification of intent to award sent out
May - July (estimated)	Design Phases
• May 10, 2022 (estimated)	Agreement start date
• July, 2022 (estimated)	Design Development Phase deliverables due
• July, 2022 (estimated)	Construction Documents Phase deliverables due
August - December (estimated)	Bidding-Construction -Start Up Phases
Construction to start on project areas after December 5/2022.	

## 9. ADDITIONAL INFORMATION

- A. Dane County Public Works Engineering Division, 1919 Alliant Energy Center Way, Madison, Wisconsin 53713, will receive your Proposal.
- B. Obtain any additional information regarding this project from Eric Urtes, AIA-Public Works Project Manager, 608/266-4798, [urtes.eric@countyofdane.com](mailto:urtes.eric@countyofdane.com) .
- C. Obtain RFP documents from the Dane County web site. Proposing company is responsible to check back there regularly for Addenda.
- D. **All Proposals must be submitted by 2:00 p.m., Tuesday, March 29, 2022.**

- E. Dane County reserves the right to accept or reject any Proposal submitted.
- F. We will review information submitted by consultants and will distribute the proposals for evaluation to Alliant Energy Center staff and Public Works. Scores for the areas listed above in the Evaluation Criteria section will be entered in to a matrix to determine the selection of the A/E firm.
- G. Dane County reserves the right to negotiate an Agreement after selecting the successful firm. Selection is only on the proposal submitted and subsequent interviews. Therefore, the proposals must be complete. Submission of a proposal shall constitute a valid offer, which may be accepted by the County for a period of ninety (90) calendar days following the proposal due date.
- H. Dane County is an Equal Opportunity Employer.

END OF SECTION





Department of Administration  
**Public Works Engineering Division**

608/266-4018

Greg Brockmeyer  
**Director of Administration**

Joseph T. Parisi  
**County Executive**

**Director of Public Works**  
Todd Draper

1919 Alliant Energy Center Way  
Madison, Wisconsin 53713  
Fax: 608/267-1533

[https://pwht.countyofdane.com/public\\_works.aspx#engineering](https://pwht.countyofdane.com/public_works.aspx#engineering)

SECTION 00 42 13

PROPOSAL FORM

**PROPOSAL NO. 322010**  
**PROJECT: PAVILIONS NO 1 & NO 2 UPGRADES**  
**ALLIANT ENERGY CENTER**

The undersigned, submitting this Proposal, hereby agrees with all terms, conditions and requirements of the above referenced Request for Proposals, and declares that the attached Proposal and pricing are in conformity therewith.

**SIGNATURE:** \_\_\_\_\_

(Proposal is invalid without signature)

Print or Type Name: \_\_\_\_\_ Date: \_\_\_\_\_

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

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Receipt of the following addenda and inclusion of their provisions in this Proposal is hereby acknowledged:

Addendum No(s). \_\_\_\_\_ through \_\_\_\_\_

Dated \_\_\_\_\_

All Proposers are strongly encouraged to be a registered vendor with Dane County. Registering allows vendors an opportunity to receive notifications for RFPs & RFBs issued by the County and provides the County with up-to-date company contact information. Complete a new form or renewal online at:

[danepurchasing.com/Account/Login?](http://danepurchasing.com/Account/Login?)



This Agreement, and any amendment or addendum relating to it, may be executed and transmitted to any other party by legible facsimile reproduction or by scanned legible electronic PDF copy, and utilized in all respects as, an original, wet-inked manually executed document. Further, this Agreement and any amendment or addendum thereto, may be stored and reproduced by each party electronically, photographically, by photocopy or other similar process, and each party may at its option destroy any original document so reproduced. All parties hereto stipulate that any such legible reproduction shall be admissible in evidence as the original itself in any judicial, arbitration or administrative proceeding whether or not the original is in existence and whether or not each party made such reproduction in the regular course of business. This term does not apply to the service of notices under this Agreement.

DRAFT

**COUNTY OF DANE**  
**PROFESSIONAL SERVICES AGREEMENT**  
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## 1. ARTICLE 1: SCOPE OF AGREEMENT

- 1.A. This Agreement between COUNTY and the person or firm, duly licensed under the laws and in accordance with the regulations of the State of Wisconsin, hereinafter referred to as the "A/E" shall be governed by the following Terms and Conditions.
- 1.B. The A/E shall provide technical and professional services under this Agreement. The Terms and Conditions of this Agreement shall apply to modifications made to this Agreement and shall apply to both the services rendered in the creation of the design and to the additional services called for in carrying out the design.
- 1.C. The A/E shall serve as the professional technical advisor and consultant to COUNTY in matters arising out of or incidental to the performance of this Agreement and in that capacity, the A/E shall not have a contractual duty or responsibility to any other person or party or individual regarding the services under this Agreement, except as that duty may arise under the laws of the State of Wisconsin. The A/E is not an agent of the COUNTY within the meaning of s. 893.80 or 895.46, Wis. Stats.
- 1.D. Professional services performed or furnished under this Agreement shall be based on the care and skill ordinarily used by members of the profession involved, who practice under the authority of and who are governed by the license issued under the Wisconsin Statutes and the Wisconsin Administrative Code. The standard of care for architectural and engineering services under this Agreement shall include designing buildings, structures and / or related infrastructural systems that comply with all applicable building and safety codes.
- 1.E. By accepting this Agreement, the A/E represents possession of the necessary skill and other qualifications to perform work under this Agreement and is familiar with the practices in the locality where such services and work shall be performed.
- 1.F. The A/E shall review and become familiar with the current Division 00 & 01 requirements utilized by COUNTY in construction contracts and shall provide services and work, consistent with such requirements, so that the Contractor's schedule is not negatively impacted.
- 1.G. The A/E shall be professionally responsible for work performed under this Agreement. Upon written approval of COUNTY, the A/E may subcontract work to an approved consultant under this Agreement, to the specific extent authorized by COUNTY. The authorization to subcontract shall not relieve the A/E of professional or contractual responsibility for any work performed or delivered under this Agreement. The authorization to subcontract shall not be construed to create any contractual relationship between COUNTY and such consultant.
- 1.H. Subcontracts for services under this Agreement shall provide that work performed under such subcontract, shall be subject to provisions of this Agreement and shall also provide that any professional duty or responsibility pertaining thereto shall be accomplished to the benefit of COUNTY. Upon request, an electronic copy of each such subcontract for which COUNTY approval is granted shall be furnished to COUNTY.
- 1.I. The A/E may substitute consultants or professional staff under this Agreement only to the specific extent authorized by COUNTY in writing.
- 1.J. In the performance of this Agreement, the A/E shall become familiar with and perform such services in accordance with the specifications set forth in the Request for Proposals document. The COUNTY reserves the right to update County Master Specifications Division 00 and Division 01 at any time, including after the signing date of this Agreement.

The A/E shall use and conform to the most current County Master Specifications Division 00 and Division 01 available at the time of Final Review Documents and the A/E shall not be eligible for a change order based upon alterations to said County Master Specifications Division 00 and Division 01 occurring after the date of Agreement signing.

1.K. For this project the following terms will be in use:

1.K.1) Project Planning Team = Dane County staff from Alliant Energy Center, Public Works Engineering Division, and the architect / engineering design team (A/E). Occasionally, others may join or provide input to this team.

## 2. ARTICLE 2: SCOPE OF THE SERVICES TO BE PROVIDED

2.A. General:

2.A.1) Services are to be provided by the A/E in each of the following phases:

Study Phase  
Design Development Phase  
Construction Documents Phase  
Bidding Phase  
Construction Phase

2.A.2) An assigned COUNTY Public Works Project Manager will be the A/E's contact in securing COUNTY direction and for arranging the necessary meetings with COUNTY or other County Departments and obtaining the approvals required by COUNTY.

2.A.3) The A/E shall create a log of all COUNTY and A/E generated design changes resulting from meetings and communications from COUNTY. Keep this log throughout the entire design process.

2.A.4) The term "written" or "in writing" may be either electronic or hard copy documentation, unless otherwise stated or directed by COUNTY.

2.B. Study Phase:

2.B.1) The A/E shall obtain from COUNTY information and materials necessary to ascertain scope of the Project and shall verify with COUNTY program and functional requirements of the Project. This shall include gathering information from building users subject to approval by the COUNTY Public Works Project Manager.

2.B.2) Based on information, materials and requirements as verified by COUNTY, A/E shall prepare a Summary and Study consisting of text, drawings and other documents illustrating scale and relationship of the Project components. Draft version of Study shall be submitted to COUNTY for review, modifications and written approval before submitting Final version.

2.B.3) The A/E shall submit to COUNTY in the Summary and Study, a construction cost estimate based on information provided by COUNTY and gathered by A/E for Final version of Study.

2.B.4) Study Phase deliverables shall be:

2.B.4) a. Draft Study, electronic copies of:

- (1) Word 2016 (or earlier version);
- (2) Any other files (e.g., AutoCAD 2019, Excel 2016, PowerPoint 2016, etc. (or earlier versions)) included in Study; and
- (3) Adobe Acrobat 2020 (or earlier version) (PDFs converted from Word, AutoCAD, or other programs; minimize pdf file size by converting files rather than scanning printouts).

2.B.4) b. Final Study:

- (1) Original unbound, hard copy in 8½ x 11 and / or 11 x 17 format prints;
- (2) Three (3) bound, hard copies in 8½ x 11 and / or 11 x 17 format;
- (3) Electronic version of all documents delivered on a USB flash drive or compact disk:
  - (a) Word 2016 (or earlier version);
  - (b) Any other files (e.g., AutoCAD 2019, Excel 2016, PowerPoint 2016, etc. (or earlier versions)) included in Study; and
  - (c) Adobe Acrobat 2020 (or earlier version) (PDFs converted from Word, AutoCAD, or other programs; minimize pdf file size by converting files rather than scanning printouts).

2.C. Design Development Phase:

2.C.1) The A/E shall review the program and functional requirements, plans and specifications of record, (to the extent that such documents are reasonably available), and applicable COUNTY standards and guides or other written direction by COUNTY. The A/E shall establish the limiting parameters of the design as defined by the instructions issued to it by COUNTY, to determine if the design concept is achievable within the schedule and budget proposed by COUNTY.

2.C.2) To the extent necessary, the A/E shall facilitate investigation of the Pavilions for existing conditions which differ from those indicated in the record drawings or which could have a detrimental impact on the achievement of the work called for under the project.

2.C.3) Within seven (7) calendar days of receipt of the program and functional requirements, plans and specifications of record, the A/E and COUNTY shall schedule a meeting to review the A/E's design concept and such other matters as are necessary to establish that at this preliminary point, the proposed design concept is consistent with the requirements of COUNTY.

2.C.4) The A/E shall document the results of design meetings, including design factors agreed to, with any instructions furnished by COUNTY to carry out such factors, including, but not limited to:

- Program clarification
- Scheduling concerns
- Project cost estimates
- Cost-value trade offs
- Quality requirements
- Special material requirements
- Communications requirements
- Engineering requirements

2.C.5) The A/E shall furnish a copy of the documentation produced under this Phase to each participant attending a design concept meeting.

- 2.C.6) In agreements which involve renovation or remodeling of or additions to existing facilities, the A/E shall evaluate the suitability of existing building elements, materials and equipment for reuse in the renovated project. Reasonably accessible areas shall also be observed by the A/E or its consultants to evaluate existing major mechanical, plumbing and electrical systems. Any of the foregoing considered to be economically reusable shall be reported to COUNTY and may be reused unless directed otherwise by COUNTY.
- 2.C.7) The A/E shall provide sufficient, alternative design solutions on major design features to allow COUNTY to ascertain that the recommended design achieves a practical programmatic and economic solution, within the limitations of the authorized program, schedule and budget. Include staffing and occupancy considerations provided by COUNTY.
- 2.C.8) The major design features, equipment and systems that must be evaluated include, but are not limited to:
- Fire protection system upgrades (canopy protection)
  - Radiant Heating & associated controls
  - Electrical System upgrades & associated controls

Each feature above is subject to its own individual Request for Bid (RFB).

- 2.C.9) The A/E shall provide a working analysis of each major design feature included in the selected design concept, with constraints and dependencies that is sufficiently complete to allow commencement of the Construction Documents Phase:

2.C.9) a. The A/E shall prepare preliminary drawings, specifications and other data tailored to the project that fix and describe the size and character of the entire project as to major design features and systems and such other essentials outlined by COUNTY:

- (1) The preliminary drawings shall include plans, elevations, sections and details at a scale which is sufficient to fully illustrate the design concepts, materials and finishes to be employed. Drawings shall be in format as approved by COUNTY.
- (2) The outline specifications shall include relevant specific information for Division 01 - Bidding and Contract Requirements and a list of the applicable technical divisions.

2.C.9) b. The A/E shall prepare a Design Report that includes:

- (1) A time estimate for completion of each separate phase of the work (Design, Construction Documents, Bidding, and Construction).
- (2) A detailed estimate of project cost based on the preliminary design concept, which indicates that the project budget limitations will not be exceeded. Factors influencing the cost feasibility of each major division of the specification and related drawings shall be identified.
- (3) An analysis of the biddability and constructability of the project within the time allowed by COUNTY.
- (4) An identification of any part of the work that might require special monitoring or consideration during construction to prevent quality control problems, delays, or cost escalation. Include any long lead



time equipment or materials, items which interface with difficulty, areas of work requiring significant care, sequencing or precision in installation and full or partial User occupancy during construction.

- (5) As a safeguard against unforeseen bidding conditions, the A/E may recommend appropriate alternate bids for COUNTY's consideration. Such alternates shall be identified and developed at no additional cost to this Agreement.

2.C.10) Upon determination by the A/E that the final design is represented by the preliminary drawings and specifications, those documents along with a final Design Report shall be submitted to COUNTY for review and concurrence prior to commencement of Construction Documents.

2.C.10) a. The A/E shall provide COUNTY with one (1) electronic file of the Design Report with appendix, preliminary drawings and outline specifications for review and coordination purposes. Electronic documents shall be in a format approved by COUNTY.

2.C.10) b. COUNTY will issue a list of recommended changes / corrections to be incorporated into the documents. Within seven (7) calendar days of receipt, the A/E shall transmit written replies to review comments issued by COUNTY. Directions by COUNTY shall be incorporated into the design, unless the A/E shall have explained objections to COUNTY and obtained prior written approval of noncompliance from COUNTY before proceeding with related work.

2.C.10) c. The A/E or COUNTY may call a further preliminary review meeting, when necessary to finalize the design concept. Written replies to additional COUNTY comments shall be made before proceeding to the Construction Documents Phase.

2.C.10) d. Approval of these documents by COUNTY will complete the Design Development Phase, whereupon COUNTY will issue written instruction to the A/E to proceed to the Construction Documents Phase.

2.C.11) Design Development Phase deliverables shall be:

2.C.11) a. Three (3) bound, hard copies of drawings (full size-typical of all submissions) & specifications (in 8½ x 11 format-typical of all submissions); and

2.C.11) b. Electronic version of all documents delivered on a USB flash drive or compact disk:

- (1) Drawings in AutoCAD 2019 (or earlier version);
- (2) Specifications in Word 2016 (or earlier version); and
- (3) Adobe Acrobat 2020 (or earlier version) of drawings and specifications (PDFs converted from Word, AutoCAD, or other programs; minimize pdf file size by converting files rather than scanning printouts).

2.D. Construction Documents Phase:

2.D.1) Upon receipt of written instructions from COUNTY, the A/E shall prepare Construction Documents for bidding, and construction of the project. The

Construction Documents shall provide the detailed requirements for the successful construction of the entire project.

2.D.2) Construction Documents shall comply with the COUNTY Master Specifications Division 00 and Division 01.

2.D.3) The Construction Documents shall be internally consistent in terms of coordination between:

2.D.3) a. Work of the A/E and its consultants.

2.D.3) b. Requirements of various divisions or trades.

2.D.3) c. Drawings and specifications.

2.D.4) During this phase, the A/E shall develop and provide documents for the systems designed under this Agreement which will achieve a biddable and constructible project, compliant with all applicable building and safety codes and within the assumption of professional responsibility set forth in this Agreement. These services shall include, but not be limited to:

2.D.4) a. Coordination, to protect the integrity of the design and facilitate construction with:

(1) Manufacturers: Ensure that manufactured items called for in the documents are currently available and will fit, interface and perform as required to achieve design intent.

(2) Consultants: Ensure that information necessary to their work is provided in a timely manner and that consultants exchange information with each other and the A/E.

(3) Utility Companies: Determine the standard operating procedures and time requirements for obtaining the services and the cooperation of the utility companies involved in the execution of the project. Provide this information in writing to interested parties as needed.

(4) Governmental authorities having jurisdiction over the work:

(a) The A/E shall submit documents for approval to public agencies having jurisdiction over the project and after obtaining such approval of those agencies, the A/E shall file two (2) copies of such approval with COUNTY.

(5) Such other agencies, boards, associations or individuals whose activities could impact or interfere with the successful completion of the project.

2.D.4) b. Inclusion in the Construction Documents of:

(1) Plans, elevations and sections at a scale which is sufficient to give a full and complete understanding of the construction, dimensions thereof, materials to be employed, location of utilities and any other pertinent data.

(2) Details, diagrams, schedules, photo reproductions and other graphic methods appropriate to define work required to be performed to accomplish the purposes of the project.

(3) Description of existing conditions of site and / or structures with sufficient clarity to permit their use without ambiguity in the bidding, construction and process.

2.D.4) c. Inclusion in the specifications documents of bidding and contract requirements, special provisions and / or appendices, and technical sections. Unless otherwise agreed to by COUNTY in writing, the format shall generally follow the divisions of the Construction Specifications Institute. If approved by COUNTY in writing, short form specifications for limited scope work may be included on the drawings in lieu of Construction Specifications Institute format specification sections.

- (1) The technical sections of the specifications shall completely and concisely describe the materials and services to be employed or installed by the construction contractor(s) in the work. These specifications shall describe the work to be done and shall be arranged by work or material in appropriate divisions with suitable cross-references for clarity and continuity
- (2) The technical sections of the specifications shall be carefully worded to allow a clear understanding of the work required by each of the construction contractors and their subcontractors, and to describe the responsibility for the work required to be performed by such contractor(s), individually and collectively, for the performance of work required to deliver the project complete, without ambiguity as to which technical sections of the specifications cover each element of work.
- (3) The technical sections of the specifications shall clearly state the minimum grade, quality, and type of materials and workmanship required. These specifications shall not restrict competition, where it is available, but shall state a level of quality, which can be objectively determined by persons normally engaged in the type of trade or practice described.
- (4) When two (2) or more manufacturers offer on the open market materials, equipment or devices of equal quality and usability needed for the project, each such known manufactured product shall be specified for potential use on the project.
- (5) The professional judgment of the A/E or the direction of the COUNTY may limit competition to a brand name, process, or technique of manufacture.
- (6) The A/E shall compile and include in the construction contract documents a summary listing of all submittals required for the project from the construction contractor(s). Included shall be shop drawings, samples, cuts, catalogs, models, mockups and other preliminary information needed from the contractors to describe how they will fulfill their responsibilities under their contracts.

2.D.5) Upon determination by the A/E that the final project design is represented by completed Construction Documents, those documents shall be submitted to COUNTY for review and concurrence prior to release for bidding.

2.D.5) a. The A/E shall provide COUNTY with review sets in a format and standard specified by the COUNTY.

2.D.5) b. COUNTY will issue a list of recommended changes / corrections to be incorporated into the next review set or final documents. The A/E shall within seven (7) calendar days transmit written replies from the A/E and its sub-consultants to review comments issued by COUNTY or for which clarification requests were identified or for which changes were authorized

at the final design review meeting and communicated to the A/E. Directions by COUNTY shall be incorporated into the documents.

- 2.D.6) Prior to submission of the final documents, the A/E shall call for a final review meeting with COUNTY, if needed, to finalize and prepare for publication of the final bidding documents, with any conditions required by COUNTY.
- 2.D.7) A/E shall affix to both the cover sheet of Drawings and & inside cover of Project Manual current State of Wisconsin registration seal, number & signature. These shall be applied by registered architect and each professional engineer responsible for project design.
- 2.D.8) At the time of delivery of the final documents, the A/E shall report to COUNTY, in writing with updated estimates of project costs and schedules.
- 2.D.9) COUNTY will print and distribute drawings and specifications for bidding purposes without cost to the A/E. The A/E shall provide the original drawings, original specifications and an electronic copy of both the drawings and original specifications for printing by COUNTY, in a format as approved by COUNTY. If the A/E is directed by COUNTY to acquire the necessary printing services, these services shall be a reimbursable expense as provided in Article 4.C. hereof.
- 2.D.10) Construction Documents Phase documents shall indicate in the drawings' title block or specifications' footer what they are (e.g., 60% CDs, 95% CDs, Issued for Bids). The deliverables shall be:

2.D.10) a. 60% Review Construction Documents:

- (1) Electronic version of all documents delivered on a USB flash drive or compact disk:
  - (a) Drawings in Adobe Acrobat 2020 (or earlier version; PDFs); and
  - (b) Specifications in Word 2016 (or earlier version).

2.D.10) b. 95% Review Construction Documents:

- (1) Electronic version of all documents delivered on a USB flash drive or compact disk or ShareFile Link:
  - (a) Drawings in Adobe Acrobat 2020 (or earlier version; PDFs); and
  - (b) Specifications in Word 2016 (or earlier version).

2.D.10) c. Final Construction Documents (Issued for Bids Set):

- (1) Electronic version of all documents delivered on a USB flash drive or compact disk or ShareFile Link:
  - (a) Drawings (.dwg files) in AutoCAD 2019 (or earlier version):
    - 1. Each drawing sheet shall be complete with x-refs or base plan sheets included and attached;
    - 2. All external data from non-AutoCAD programs (e.g., Excel or Word) shall be included and attached; and
    - 3. Include copy of Plot Style Table (ctb file) used to print drawings.
  - (b) Drawings in Adobe Acrobat 2020 (or earlier version; minimize pdf file size by converting files from AutoCAD or other programs); and
  - (c) Project Manual in Word 2016 (or earlier version).

2.E. Bidding Phase:

- 2.E.1) The Bidding Phase shall commence with the publication of the Invitation to Bid and shall conclude with the award of the number of contracts necessary to achieve the purposes of construction.
- 2.E.2) The A/E shall serve as the professional technical consultant and advisor to COUNTY during the bidding process, including the preparation for and participation in Pre-Bid Conferences.
- 2.E.3) The A/E shall answer all pre-bid questions from contractors in an addendum and prepare any additional addenda necessary, for COUNTY to authorize, print and distribute as appropriate.
- 2.E.4) The A/E shall assist COUNTY by evaluating and making recommendations to COUNTY on the qualifications of prospective construction contractors and subcontractors.
- 2.E.5) The A/E shall assist COUNTY in analyzing bids and negotiating with the lowest, qualified, responsible bidders as deemed appropriate by COUNTY.
- 2.E.6) If the low bids submitted by qualified, responsible bidders exceed construction cost estimate approved at Construction Documents Phase by five percent (5%) or more, the A/E shall revise and change the Construction Documents for a project rebidding, as approved by and without additional cost to COUNTY that will permit a proper award of the contract(s) within the approved estimate of project cost or other funding limitation. If the low bid exceeds construction cost estimate approved at Construction Documents Phase by less than five percent (5%), at the COUNTY's option, the A/E shall revise and change the Construction Documents for a project rebidding, as approved by COUNTY, but shall be compensated for revisions per negotiated amendment to this Professional Services Agreement.
- 2.E.7) In the event that there is a reduction in scope to keep the project within budget and this results in low bid(s) which total less than the construction budget, then the A/E shall, at no additional fee, prepare construction bulletin(s) to add deleted program work back into the project.
- 2.E.8) Upon construction contract offer, the A/E shall immediately prepare Issued for Construction / Permitting Documents that incorporate the final bidding documents, addenda issued, alternate bids accepted and negotiated contract changes. Incorporate all of which into the Issued for Construction / Permitting Documents. Remove all references to accepted or rejected alternate bids and change the drawings' title block or specifications' footer appropriately. Complete such work in a timely fashion so not to delay construction or AHJ review & approval for permitting, but no later than seven (7) calendar days.
- 2.E.9) Bidding Phase deliverables for each project shall be:
- 2.E.9) a. Issued for Construction / Permitting Documents:
- (1) Original unbound, hard copy of Drawings and Project Manual in full size, paper format;
  - (2) Three (3) hard, bound copies of Drawings and Project Manual;
  - (3) Two (2) bound, hard copies of Drawings and Project Manual to be submitted by A/E to State of Wisconsin and City of Madison for

- stamped approval (it is the responsibility of the A/E to determine if additional sets are required for this or any other AHJ & to provide those sets); and
- (4) Electronic version of all documents delivered on a USB flash drive or compact disk:
- (a) Drawings (.dwg files) in AutoCAD 2019 (or earlier version):
    - 1. Each drawing sheet shall be complete with x-refs or base plan sheets included and attached;
    - 2. All external data from non-AutoCAD programs (e.g., Excel or Word) shall be included and attached; and
    - 3. Include copy of Plot Style Table (ctb file) used to print drawings.
  - (b) Drawings in Adobe Acrobat 2020 (or earlier version; minimize pdf file size by converting files from AutoCAD or other programs);
  - (c) Project Manual in Word 2016 (or earlier version); and
  - (d) Project Manual in Adobe Acrobat 2020 (or earlier version; minimize pdf file size by converting files from Word or other programs, rather than scanning printouts).

2.F. Construction Phase:

2.F.1) An assigned COUNTY Project Manager will be responsible for arranging and conducting construction-related meetings as required and act as the point of contact for the construction contractors. A COUNTY approved A/E representative shall attend, take notes, publish and distribute COUNTY approved minutes of job meetings.

2.F.2) After the award of the construction contract(s), the A/E shall become an on-site technical and professional advisor to COUNTY. In this capacity the A/E will have continuous access to the site. The A/E, through COUNTY's Project Representative, will have access to data in the construction contractor(s) files or offices pertaining to the quality or time requirements of the construction contract(s), in the same mode, manner and extent that such data would be available to COUNTY.

2.F.2) a. When requested and specifically contracted for by COUNTY, the A/E shall provide a full-time, on-site representative who shall be qualified in construction administration and subject to the approval of COUNTY. On projects for which COUNTY does not authorize full-time, on-site representation, the A/E shall provide, in accordance with ATTACHMENT A - CONSTRUCTION PHASE SITE VISITS AGREEMENT, a COUNTY-approved person, with suitable experience in the construction process to visit the site in order to monitor and report the progress, quality, and timely performance of the work relative to the Construction Documents, as such work is being performed by the construction contractor(s). The A/E shall keep COUNTY informed of the progress and quality of the work based on on-site observations and shall endeavor to protect COUNTY against defects and deficiencies in the work.

2.F.3) Immediately following the pre-construction meeting and prior to the start of construction, the A/E shall review the proposed schedule for submittals from the construction contractor(s). The A/E shall assess the timing feasibility of such submittals relative to the construction schedule and review needed, and advise COUNTY in writing accordingly.

- 2.F.3) a. The A/E shall be responsible for the professional review and approval or rejection of shop drawings, samples and other submittals from the construction contractor(s) to determine conformance with the specific portions of the Construction Documents under which the submittal was made. Deviation from the Construction Documents as noted by the contractor on submittals or otherwise observed by the A/E shall be brought to the attention of COUNTY's Project Representative and concurrence received from COUNTY before any approval is given to a contractor. Review of the submittals which have priority status as determined by COUNTY's Project Representative, must be completed within five (5) business days of receipt. Review of other submittals shall be completed within ten (10) business days of receipt, or in accordance with the submittal schedule prepared by the General Contractor and as approved by COUNTY and A/E at the start of construction. The A/E is responsible for submittal activity conducted by its consultants in the same manner as if such review were made by the A/E.
- 2.F.3) b. The A/E shall also review the results of all testing conducted during or after construction and report to COUNTY whether these results meet the design intent and the requirements of the Construction Documents.

2.F.4) The A/E's site representative shall observe the construction process to evaluate the adequacy and completeness of the construction contractor(s) compliance with the Construction Documents, and shall immediately report any noncompliance to the COUNTY Project Manager in writing.

2.F.4) a. The A/E shall be responsible for the coordination and performance of on-site services performed by consultants employed by the A/E and shall review reports and other data submitted by such consultants. The A/E and each consultant engaged under Article 1.G. and ATTACHMENT B. - A/E / CONSULTANT AGREEMENT shall visit the job site as delineated in ATTACHMENT A. - CONSTRUCTION PHASE SITE VISITS AGREEMENT. The A/E shall provide in each consultant agreement, a requirement for consultant visits to the site and a schedule for such visits for professional evaluation of the work monitored by each consultant and a reporting system to inform COUNTY. Site visits shall coincide with crucial times of the construction for the specialty area involved.

2.F.4) b. Following construction site visits, the A/E shall make routine, written status reports detailing observations and activities on the project, at such intervals as is elsewhere herein established and in a format approved by COUNTY. The A/E shall submit the reports within three (3) business days of the site visit by the A/E's representative. Reporting requirements for full-time, on-site representation shall be established by each Agreement for such professional services.

2.F.4) c. The A/E's site representative will receive copies of reports submitted by the General Contractor and shall provide site observation to evaluate the reports. Discovered construction variances shall immediately be reported to COUNTY.

2.F.4) d. If it becomes necessary during construction, to interpret, construe, clarify or to otherwise determine the reasonable meaning, application or implementation of the Construction Documents, the A/E acting in good

faith, based upon the facts made known to it at the time, shall recommend to COUNTY in writing, a reasonable course of conduct in connection with the issues involved. Such recommendation(s) may be considered for further contractual action by COUNTY.

2.F.4) e. Should the A/E become aware that the work of any contractor or subcontractor in place or underway does not conform to the work or quality required by the Construction Documents, the COUNTY Project Manager shall be immediately notified in writing. It is appropriate for the A/E to also immediately advise the contractors of substantial deficiencies, and that notification of these deficiencies will be made to COUNTY. The A/E shall furnish such data as necessary to inform COUNTY of the degree of the noncompliance with the Construction Documents, the cause thereof, the impact on schedule and cost, if known, and a recommended course of conduct. COUNTY shall be solely responsible for implementation of the A/E's recommendation. This assumption of responsibility by COUNTY shall not relieve the A/E or its consultants for negligence in the discovery of the condition, which was or should have been discovered.

2.F.4) f. If the A/E considers suspension of construction work appropriate, the A/E shall notify COUNTY in writing and state the reasons, which, in the professional opinion of the A/E, justify such action.

2.F.5) Necessary professional services or construction required to repair or overcome problems caused by errors, omissions, ambiguities or changes not authorized by COUNTY in the preparation of the documents or design shall be the responsibility of the A/E or its consultants, without additional cost to COUNTY.

2.F.6) The A/E shall review requests for information (RFIs) and shall respond within five (5) business days.

2.F.7) The A/E shall develop and issue appropriate construction bulletins (CBs) at the direction of the COUNTY Project Manager. The A/E shall then evaluate the CB proposals received from the construction contractors and provide COUNTY with a written recommendation regarding the appropriateness of the proposals. The evaluation and recommendation shall be completed within five (5) business days of receipt, or in accordance with another schedule approved by COUNTY. The evaluation shall consider the necessity for such change, the reasonableness of the proposed change, and an analysis of the cost proposed for effecting the change.

2.F.8) The A/E shall assist in the preparation of applications for energy incentive programs, when applicable.

2.F.9) Upon contractor's written notification and the COUNTY Project Manager's confirmation that Substantial Completion has taken place, the A/E shall observe the construction and provide a written punchlist to the COUNTY Project Manager. The COUNTY Project Manager will schedule the punchlist inspection in conjunction with the User and contractors involved. The punchlist shall contain items found not to be complete, in need of correction, replacement or otherwise not in accordance with the Construction Documents. As part of the Substantial Completion verification, the A/E shall perform or witness and document functional testing and review the testing and balance report prepared by others for all plumbing, HVAC, fire protection and electrical systems to verify installation and operation meet the intent of their design. The A/E shall forward the results of the functional testing and



provide written recommendations for corrective measures where systems do not meet the intent of their design. The A/E shall prepare and distribute the Certificate of Substantial Completion when appropriate.

2.F.10) COUNTY will provide a set of Construction Documents to General Contractor on which daily records of changes and deviations shall be recorded. At completion of the project, General Contractor will submit its marked-up as-built documents to the A/E who shall, based on these marked up as-built documents, revise the original documents, including the electronic files, showing changes in the work made during the construction process to produce a set of Record Documents. Electronic documents shall be in a format and on a medium required by COUNTY. This work shall be completed and submitted to COUNTY within thirty (30) calendar days of receipt of the last marked up prints. The consequences of addenda, change orders and other circumstances known by the A/E to have caused change shall be included in the production of the Record Documents. The marked-up as-built documents shall be turned over to the COUNTY at the same time as the Record Documents.

2.F.10) a. Record Documents deliverables shall be:

- (1) Three (3) hard, bound copies of Drawings and Project Manual; and
- (2) Electronic version of all documents delivered on a USB flash drive or compact disk:
  - (a) Drawings (.dwg files) in AutoCAD 2019 (or earlier version):
    1. Each drawing sheet shall be complete with x-refs or base plan sheets ~~included and attached~~;
    2. All external data from non-AutoCAD programs (e.g., Excel or Word) shall be ~~included and attached~~; and
    3. Include copy of Plot Style Table (ctp file) used to print drawings.
  - (b) Drawings in Adobe Acrobat 2020 (or earlier version; minimize pdf file size by converting files from AutoCAD or other programs);
  - (c) Project Manual in Word 2016 (or earlier version); and
  - (d) Project Manual in Adobe Acrobat 2020 (or earlier version; minimize pdf file size by converting files from Word or other programs, rather than scanning printouts).

2.F.11) The A/E shall obtain from the General Contractor, and review for compliance with design intent, an Operating and Maintenance Manual for building systems and operable mechanical and electrical equipment on the project, both powered and manual. Two (2) copies of the Manuals shall be provided to COUNTY's Project Representative. These manuals shall include:

2.F.11) a. Manufacturer's Instruction for Maintenance and Operation of Equipment and Systems, including a Spare Parts List; and

2.F.11) b. Temperature Control Record Drawings and Equipment Data Sheets including recommended maintenance procedures.

**3. IT IS NOT INTENDED BY THIS AGREEMENT TO IMPOSE UPON THE A/E THE DUTY OF A GUARANTOR OF THE CONSTRUCTION CONTRACTOR(S). IT IS, HOWEVER, THE INTENT OF THE AGREEMENT TO IMPOSE UPON THE A/E THE DUTY OF THE FAITHFUL FULFILLMENT, IN ACCORDANCE WITH THE STANDARD OF CARE ORDINARY TO THE PROFESSION, OF THE**

**PERFORMANCE OF THE DUTIES SPECIFICALLY ENUMERATED HEREIN AND FOR THE CLOSE MONITORING OF THE WORK OF ITS CONSULTANTS AS IF THE WORK WERE PERFORMED BY THE A/E. AS SUCH, THIS SHALL NOT PRECLUDE THE ENTITLEMENT TO COUNTY OF REASONABLE EXPECTATION THAT SYSTEMS AS DESIGNED BY THE A/E OR THEIR CONSULTANTS WILL OPERATE AS ANTICIPATED BY COUNTY ARTICLE 3: COUNTY'S RESPONSIBILITIES**

- 3.A. COUNTY will determine the project scope for which the professional design services are required and will fully cooperate in achieving completion of that work.
- 3.B. COUNTY will establish an internal operating procedure for timely and proper performance of any COUNTY duty required to fulfill the needs of the project.
- 3.C. COUNTY will provide available information regarding the requirements for the project, which set forth COUNTY's objectives for program, schedule and overall budget. COUNTY will make available to the A/E data known to COUNTY or requested by the A/E, which may be needed for the fulfillment of the professional responsibility of the A/E. This data may include, but is not limited to, prints of existing buildings or record drawings and COUNTY standards and guides. Such documents will be the most recent and accurate available. The use of any such data by the A/E shall be without contractual or legal significance unless otherwise established elsewhere in this Agreement. However, providing of documents by COUNTY shall not relieve the A/E from the responsibility for conducting a field survey to verify existing conditions as specified herein.
- 3.D. COUNTY will communicate to the A/E the format of the documents required to be submitted.
- 3.E. COUNTY will examine documents submitted by the A/E and will render decisions regarding them promptly, to avoid unreasonable delay in the progress and sequence of the A/E's work. COUNTY will coordinate review comments from the User agency and COUNTY staff prior to issuance to the A/E.
- 3.F. COUNTY will distribute Construction Documents and any necessary addenda to prospective bidders, and conduct the bid opening for the project.
- 3.G. COUNTY will prepare and process the Agreements between COUNTY and A/E, and between COUNTY and construction contractor(s).
- 3.H. Unless otherwise specified in this Agreement, COUNTY will arrange for services of a testing laboratory to furnish structural, chemical, mechanical and other laboratory tests, inspections and reports as required by law or deemed necessary by COUNTY.

**4. ARTICLE 4: COMPENSATION**

- 4.A. A/E fees for basic services will be compensated by COUNTY in accordance with the Terms and Conditions of this Agreement as follows:
- 4.A.1) COUNTY will pay the A/E a lump sum fixed fee of \$[            ].
- 4.A.1) a. The A/E fee for professional services shall be in accordance with the terms of this Agreement and based on the scope of services contained in the Request for Proposals, dated February 22, 2022, including any subsequent Addenda.

- 4.A.2) No change in fee shall result from change orders to construction contracts unless such change is described as an Additional Service under Article 4.D. of this Agreement and approved by COUNTY. When the A/E's Design Report estimate indicates a revised project cost and such revision is approved by COUNTY, the amount of the lump sum fee may be renegotiated.
- 4.A.3) In the event the lowest acceptable construction bids exceed the fixed limit of construction, as shown above, plus any COUNTY increases approved before bidding, COUNTY will do one or more of the following:
  - 4.A.3) a. Cooperate in revising the project scope and quality as required to reduce the project cost;
  - 4.A.3) b. Authorize the rebidding of the project within a reasonable time; and / or
  - 4.A.3) c. Give written approval of an increase in such fixed limit.
- 4.A.4) Compensation for any revisions of project scope & necessary rebidding based lowest acceptable construction bids exceeding the construction cost estimate approved at Construction Documents Phase shall be as described in "2.F. Bidding Phase" section above.

4.B. The A/E's Compensation for Additional Services, as described in Article 4.D., will be computed as follows:

4.B.1) Principals' time at a fixed rate of \$[ ] per hour, unless separate amounts are provided for each Principal. For the purposes of this Agreement, the Principals are:

DRAFT

[ ]

[ ]

[ ]

4.B.2) Other design staff shall be billed at these fixed rates:

Senior design architect / engineer:     \$[ ] per hour

Junior design architect / engineer:     \$[ ] per hour

Senior designer:     \$[ ] per hour

Junior designer:     \$[ ] per hour

Drafting:     \$[ ] per hour

Clerical:     \$[ ] per hour

4.B.3) Employee's time shall be computed using the employee's basic hourly salary and include overhead costs for clerical support and mandatory and customary benefits such as statutory employee benefits, insurance, sick leave, holidays and vacations, pensions and similar benefits for persons in consultation, research and design in producing drawings, specifications and other documents pertaining to the project and for services during construction at the site.

#### 4.C. Reimbursable Expenses:

4.C.1) Reimbursable Expenses are actual, incidental expenses incurred by the A/E, its employees or consultants, in the interest of the project and are not included in overhead costs for the Fees for Basic Services (4.A.) and Additional Services (4.D.). Reimbursable Expenses shall be incurred or contracted for only with PRIOR written approval from COUNTY. Such approval shall be based on a written proposal delineating the nature of the services, the time involved, the estimated cost thereof, and the individuals or firms involved. Payment Requests from consultants and construction contractors providing these Reimbursable Expenses shall be reviewed by the A/E to check the accuracy of and entitlement to the sums requested. There are no markups allowed for Reimbursable Expenses. Reimbursable Expenses may include, but are not limited to, the following incidental expenses:

4.C.1) a. Expense of reproduction of drawings and specifications, excluding the review sets required in Article 2.

4.C.1) b. Expense of State and / or City review fees when required.

4.C.2) Expenses not eligible for reimbursement shall include, but are not limited to, indirect project overhead costs associated with the Fees for Basic Services (4.A.) and Additional Services (4.D.) such as mileage, travel, lodging, replication of drawings for the design development meetings and subsequent design meetings, preliminary and final review document printing, handling and postage, cost of correspondence transmittals, telephone expenses, and CAD / electronic graphic services. Such expenses shall be included as part of the Lump Sum fee.

#### 4.D. Additional Services:

4.D.1) The following services are in addition to but are not covered in Article 4.A. These services may be identified as part of the A/E's fee proposal and included with the lump sum fee as such. Compensation for these additional services or other services must be requested by the A/E, and subsequently approved by COUNTY prior to proceeding with the work. If the additional services are requested after the Agreement has been issued, such authorization shall be based on a written proposal delineating the nature of the services, the time involved, the estimated cost thereof, the effect on the project schedule and the individuals or firms involved. When authorized, an Agreement Change Order will be used to modify the A/E's Agreement.

4.D.1) a. Providing planning surveys, program revision, site feasibility, or comparative studies of prospective sites.

4.D.1) b. Revising previously approved drawings, specifications or other documents after written approval of Design Development Phase, to accomplish changes not initiated by the A/E other than record documents and revisions normally to be expected or required to correct deficiencies in the approved drawings and specifications.

4.D.1) c. Preparing detailed models, perspective or renderings.

4.D.1) d. Preparing documents for alternate bids or petitions for waiver when requested by COUNTY and, requiring significant additional time and expense on the part of the A/E or its consultants.

- 4.D.1) e. Obtaining or participating in third party Value Engineering / Enhancement of the project when directed by COUNTY.
- 4.D.1) f. Providing services other than corrective design work and record documents, after final payment to the construction contractor(s).
- 4.D.1) g. Providing services requested by COUNTY for or in connection with the selection of specific movable furniture, fixtures and equipment (FF&E) by the occupying agency during the Construction Phase.
- 4.D.1) h. Providing services as expert witness in connection with any public hearings, arbitration proceeding, or the proceedings of a court of record except when the A/E is party thereto.
- 4.D.1) i. Providing historical preservation research or documentation.
- 4.D.1) j. Providing specialized design services, including, but not limited to Sustainability design or LEED certification, vibration, wind or acoustical analysis, energy modeling.
- 4.D.1) k. Participation in post-project evaluations.
- 4.D.1) l. Preparing multiple bid packages.

4.E. Payments to the A/E:

4.E.1) Payments of the A/E's lump sum fee will be made monthly, in proportion to services performed as confirmed by COUNTY, to increase the compensation to the following percentages of the lump sum fee at the completion of each phase of the work.

Design Development Phase	30%
Construction Documents Phase	70%
Bidding Phase	75%
Construction Phase	100%

- 4.E.2) No more than ninety percent (90%) of the A/E's lump sum fee shall be paid out prior to substantial completion of the project. When COUNTY confirms that development of punch lists, review of Operating & Maintenance Manuals, submittal of record documents, has been satisfactorily completed by the A/E, COUNTY will determine how and when the remaining lump sum fee is disbursed.
- 4.E.3) Payments for COUNTY-approved Reimbursable Expenses as defined in Article 4.C. and Additional Services of the A/E as defined in Article 4.D., will be made monthly upon request.
- 4.E.4) An A/E whose work is found deficient or fails to conform to the requirements set forth in the Agreement, is not entitled to further payments, until corrected to the satisfaction of COUNTY.
  - 4.E.4) a. Payments to the A/E may be withheld for damages sustained by COUNTY due to error, omission, unauthorized changes or negligence on the part of the A/E. COUNTY will notify the A/E in writing of the alleged, specific damages and amounts involved, on a timely basis.

- 4.E.5) Payments to the A/E will not be withheld due to disputes between construction contractor(s) and COUNTY.
- 4.E.6) If the project is suspended for more than three (3) months in whole or in part, the A/E will be paid fees for services performed prior to receipt of written notice from COUNTY of the suspension, together with Reimbursable Expenses then due and reasonable expenses resulting from this suspension, as approved by COUNTY. If the project is resumed after being suspended for more than three (3) months, the A/E's compensation will be subject to renegotiation.

## **5. ARTICLE 5: ACCOUNTING RECORDS**

- 5.A. Records of the A/E's direct personnel, consultants, and reimbursable expenses pertaining to the project shall be kept in accordance with Generally Accepted Accounting Principles (GAAP) and shall be available to COUNTY or an authorized representative throughout the term of this Agreement and for at least three (3) years after final payment to the A/E.

## **6. ARTICLE 6: TERMINATION OF AGREEMENT**

- 6.A. This Agreement may be terminated by COUNTY without cause upon ten (10) calendar days written notice to the A/E. In the event of termination, the A/E will be paid fees for services performed to termination date, reimbursable expenses then due, and termination expenses as approved by COUNTY. Work performed prior to the date of termination shall be in accordance with the terms and conditions of this Agreement. Upon termination, the results of such work shall immediately be turned over to the COUNTY Project Manager and is a condition precedent to further payment by COUNTY.
- 6.B. In the event the Agreement between the A/E and any consultant on this project is terminated, the results of work by that consultant shall immediately be turned over to the A/E.

## **7. ARTICLE 7: OWNERSHIP OF DOCUMENTS**

- 7.A. All drawings and specifications, renderings, models, scale details, approved copies of shop drawings and other such documents prepared by the A/E or any consultant pursuant to this Agreement shall become the property of COUNTY on completion and acceptance of any of the A/E's work, or upon termination of the Agreement, and shall be delivered to COUNTY upon request.
- 7.B. Documents prepared under this Agreement may be used by COUNTY for informational purposes without additional compensation to the A/E.
- 7.C. Specifications and isolated, detail drawings inherent to the architectural / engineering design of the project, whether provided by the COUNTY or generated by the A/E, shall be available for future use by the parties to this Agreement and other parties, each at their own risk.

## **8. ARTICLE 8: LIABILITY- HOLD HARMLESS AND INDEMNIFICATION**

- 8.A. A/E shall indemnify, hold harmless and defend COUNTY, its boards, commissions, agencies, officers, employees and representatives against any and all liability, loss (including, but not limited to, property damage, bodily injury and loss of life), damages, costs or expenses which COUNTY, its officers, employees, agencies, boards, commissions and representatives may sustain, incur or be required to pay by reason of A/E furnishing the services required to be provided under this Agreement, provided, however, that the provisions of this paragraph shall not apply to liabilities, losses, charges, costs, or expenses caused or resulting from the acts or omissions of COUNTY, its agencies, boards,

commissions, officers, employees or representatives. The obligations of A/E under this paragraph shall survive the expiration or termination of this Agreement.

## 9. ARTICLE 9: PROFESSIONAL LIABILITY INSURANCE

9.A. The A/E and its consultants retained under the terms of this Agreement shall procure and maintain a professional liability insurance policy with at least \$1,000,000 in coverage that provides for payment of the insured's liability for errors, omissions or negligent acts arising out of the performance of the professional services required under this Agreement. The A/E shall provide up-to-date, accurate professional liability information on the A/E's Data Record, including amount of insurance, deductible, carrier and expiration date of coverage. Upon request by COUNTY, the A/E shall furnish COUNTY with a Certificate of Insurance showing the type, amount, deductible, effective date and date of expiration of such policy. Such certificate shall also contain substantially the following statement: "The insurance covered by this certificate shall not be canceled, the coverage changed or reduced by endorsement, by the insurance company, except after thirty (30) calendar days written notice has been received by COUNTY." The A/E shall not cancel or materially alter this coverage without prior written approval by COUNTY. The A/E shall be responsible for consultants maintaining professional liability insurance during the life of their Agreement.

## 10. ARTICLE 10: OTHER INSURANCE

10.A. The A/E and its consultants retained under terms of this Agreement shall:

10.A.1) Maintain Worker's Compensation Insurance:

10.A.1) a. Procure and maintain Worker's Compensation Insurance as required by State of Wisconsin Statutes for all of the A/E's and consultant's employees engaged in work associated with the project under this Agreement.

10.A.1) b. Maintain Employer's Liability Insurance with a policy limit of not less than \$1,000,000 per occurrence and \$2,000,000 in the aggregate. Insurance may be met by a combination of primary and excess coverage.

10.A.2) Procure and maintain during the life of this Agreement, and until one year after the completion of this Agreement, Commercial General Liability Insurance, including Products and Completed Operations for all claims that might occur in carrying out the Agreement. Minimum coverage shall be \$1,000,000 per occurrence, \$1,000,000 general aggregate, combined single limit for bodily injury, personal injury, and property damage. Such coverage shall be of the "occurrence" type form and shall include the employees of the A/E as insureds.

10.A.3) Procure and maintain Commercial Automobile Liability Insurance for all owned, non-owned, and hired vehicles that are used in carrying out the Agreement. Minimum coverage shall be \$1,000,000 per occurrence combined single limit for bodily injury and property damage. Insurance may be met by a combination of primary and excess coverage.

10.A.4) Provide an insurance certificate indicating the above Commercial Liability Insurance and property damage coverage, countersigned by an insurer licensed to do business in Wisconsin, covering and maintained for the period of the Agreement. Upon request by COUNTY, the insurance certificate is to be presented on or before execution of the Agreement.

## 11. ARTICLE 11: MISCELLANEOUS PROVISIONS

- 11.A. A/E warrants that it has complied with all necessary requirements to do business in the State of Wisconsin, that the persons executing this Agreement on its behalf are authorized to do so.
- 11.B. Legal Relations. The A/E shall comply with and observe federal and state laws and regulations and local zoning ordinances applicable to this project and in effect on the date of this Agreement.
- 11.C. Approvals or Inspections. None of the approvals or inspections performed by COUNTY shall be construed or implied to relieve the A/E from any duty or responsibility it has for its professional performance, unless COUNTY formally assumes such responsibility in writing from COUNTY so stating that the responsibility has been assumed.
- 11.D. Successors, Subrogees and Assigns. COUNTY and A/E each bind themselves, their partners, successors, subrogees, assigns, and legal representatives to the other party to this Agreement and to the partners, successors, subrogees, assigns and legal representatives of such other party with respect to covenants of this Agreement.
- 11.E. Claims. The A/E's project manager will meet with COUNTY's Project Manager to attempt to resolve claims, disputes and other matters in question arising out of, or relating to, this Agreement or the breach thereof. Issues not settled are to be presented in writing to the COUNTY Director of Public Works for review and resolution. The decision of the Director of Public Works shall be final. Work shall progress during the period of any dispute or claim. Unless specifically agreed between the parties, venue will be in Dane County, Wisconsin.
- 11.F. Amendment of Agreement. This Agreement may be amended in writing by both COUNTY and A/E.
- 11.G. It is expressly understood and agreed to by the parties hereto that in the event of any disagreement or controversy between the parties, Wisconsin law shall be controlling. Venue for any legal proceedings shall be in the Dane County Circuit Court.
- 11.H. This Agreement is intended to be an agreement solely between the parties hereto and for their benefit only. No part of this Agreement shall be construed to add to, supplement, amend, abridge or repeal existing duties, rights, benefits or privileges of any third party or parties, including but not limited to employees of either of the parties.
- 11.I. The entire agreement of the parties is contained herein and this Agreement supersedes any and all oral agreements and negotiations between the parties relating to the subject matter hereof. The parties expressly agree that this Agreement shall not be amended in any fashion except in writing, executed by both parties.

## **12. ARTICLE 12: NONDISCRIMINATION IN EMPLOYMENT**

- 12.A. During the term of this Agreement, A/E agrees not to discriminate on the basis of age, race, ethnicity, religion, color, gender, disability, marital status, sexual orientation, national origin, cultural differences, ancestry, physical appearance, arrest record or conviction record, military participation or membership in the national guard, state defense force or any other reserve component of the military forces of the United States, or political beliefs against any person, whether a recipient of services (actual or potential) or an employee or applicant for employment. Such equal opportunity shall include but not be limited to the following: employment, upgrading, demotion, transfer, recruitment, advertising, layoff, termination, training, rates of pay, and any other form of compensation or level of service(s). A/E agrees to post in conspicuous places, available to all employees, service recipients and applicants for employment and services, notices setting forth the provisions of this paragraph. The



listing of prohibited bases for discrimination shall not be construed to amend in any fashion state or federal law setting forth additional bases and exceptions shall be permitted only to the extent allowable in state or federal law.

12.B. Civil Rights Compliance:

12.B.1) If A/E has twenty (20) or more employees and receives \$20,000 in annual contracts with COUNTY, the A/E shall submit to COUNTY a current Civil Rights Compliance Plan (CRC) for Meeting Equal Opportunity Requirements under Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title VI and XVI of the Public Service Health Act, the Age Discrimination Act of 1975, the Omnibus Budget Reconciliation Act of 1981 and Americans with Disabilities Act (ADA) of 1990. A/E shall also file an Affirmative Action (AA) Plan with COUNTY in accordance with the requirements of Chapter 19 of the Dane County Code of Ordinances. A/E shall submit a copy of its discrimination complaint form with its CRC/AA Plan. The CRC/AA Plan must be submitted prior to the effective date of this Agreement and failure to do so by said date shall constitute grounds for immediate termination of this Agreement by COUNTY. If an approved plan has been received during the previous calendar year, a plan update is acceptable. The plan may cover a two-year period. If A/E has less than twenty (20) employees, but receives more than \$20,000 from the COUNTY in annual contracts, it may be required to submit a CRC Action Plan to correct any problems discovered as the result of a complaint investigation or other Civil Rights Compliance monitoring efforts set forth herein below. If A/E submits a CRC/AA Plan to a Department of Workforce Development Division or to a Department of Health and Family Services Division that covers the services purchased by COUNTY, a verification of acceptance by the State of A/E's Plan is sufficient.

12.B.2) A/E agrees to comply with the COUNTY's civil rights compliance policies and procedures. A/E agrees to comply with civil rights monitoring reviews performed by the COUNTY, including the examination of records and relevant files maintained by the A/E. A/E agrees to furnish all information and reports required by the COUNTY as they relate to affirmative action and non-discrimination. A/E further agrees to cooperate with COUNTY in developing, implementing, and monitoring corrective action plans that result from any reviews.

12.B.3) A/E shall post the Equal Opportunity Policy, the name of A/E's designated Equal Opportunity Coordinator and the discrimination complaint process in conspicuous places available to applicants and clients of services, applicants for employment and employees. The complaint process will be according to COUNTY's policies and procedures and made available in languages and formats understandable to applicants, clients and employees. A/E shall supply to COUNTY's Contract Compliance Specialist upon request a summary document of all client complaints related to perceived discrimination in service delivery. These documents shall include names of the involved persons, nature of the complaints, and a description of any attempts made to achieve complaint resolution.

12.B.4) A/E shall provide copies of all announcements of new employment opportunities to COUNTY's Contract Compliance Specialist when such announcements are issued.

**ATTACHMENT A**

**PROFESSIONAL SERVICES AGREEMENT**

**CONSTRUCTION PHASE SITE VISITS AGREEMENT**

Project No.: 322010

Agreement No.: \_\_\_\_\_

Project Name: Pavilions No 1 & No 2 Upgrades

Either the A/E or its Consultants shall provide construction phase services, for the Project referenced above, as follows and in compliance with Article 2.G.:

1. The A/E shall visit the site as dictated below; attend the pre-construction meeting, biweekly progress meetings and final inspection to determine if completed work is according to plans and specifications. Conduct site visits at essential times during the construction phase. A site visit is a close-up observation of the current building elements in process of being constructed. Additional site visits necessitated by A/E error, omission, unauthorized changes or negligence, shall be accomplished without additional cost to COUNTY. Additional site visits necessitated by significant failure on the part of the lead or other prime construction contractors to perform, will be given consideration as additional services, reimbursable by the responsible construction contractor(s) through COUNTY. The "in-house" staff or outside Consultants performing specialty work shall visit the site as indicated below.
2. The Architectural Consultant shall visit the site a minimum of 15 times during the construction phase.
3. The Fire Protection/Plumbing Consultant shall visit the site a minimum of 5 times during the construction phase.
4. The HVAC Consultant shall visit the site a minimum of 5 times during the construction phase.
5. The Electrical Consultant shall visit the site a minimum of 5 times during the construction phase.

**ATTACHMENT B**

**PROFESSIONAL SERVICES AGREEMENT**

**A/E / CONSULTANT AGREEMENT**

Date: \_\_\_\_\_

Project No.: 322010

Agreement No.: \_\_\_\_\_

**THIS AGREEMENT** is between [A/E Name], hereinafter called "A/E", executing this Agreement, and [Consultant Name] hereinafter called the "Consultant".

**WITNESSETH**

**WHEREAS**, the A/E has entered into an Agreement with COUNTY to furnish professional services with a project, hereinafter named "Project", which is described as follows:

Pavilions No 1 & No 2 Upgrades

**WHEREAS**, the A/E deems it advisable to engage the services of a Consultant to furnish professional services in connection with this project, and

**WHEREAS**, the A/E and Consultant agree that the terms of the Agreement between COUNTY and the A/E also apply to this Agreement as though fully set forth and binding upon the Consultant, and

**WHEREAS**, the Consultant agrees that in the event of conflict between the A/E's Agreement with COUNTY and the A/E's Agreement with the Consultant, the A/E's Agreement with COUNTY shall take precedence, and

**WHEREAS**, the Consultant has signified willingness to furnish services for the A/E;

**NOW, THEREFORE**, in consideration of the premises and to their mutual and dependent agreements, the parties hereto agree as set forth in the Agreement between COUNTY and the A/E which are annexed hereto and made a part hereof.

**IN WITNESS WHEREOF**, the A/E and the Consultant have executed this Agreement.

**Consultant Firm Name** \_\_\_\_\_

**A/E Firm Name** \_\_\_\_\_

\_\_\_\_\_  
Signature Date

\_\_\_\_\_  
Signature Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

Providing the following services:

Professional architectural & engineering design services related to pavilion upgrades.

SECTION 00 73 11

FAIR LABOR PRACTICES CERTIFICATION

The undersigned, for and on behalf of the BIDDER, APPLICANT or PROPOSER named herein, certifies as follows:

A. That he or she is an officer or duly authorized agent of the above-referenced BIDDER, APPLICANT or PROPOSER, which has a submitted a bid, application or proposal for a contract or agreement with the county of Dane.

B. That BIDDER, APPLICANT or PROPOSER has (check one):

\_\_\_\_\_ not been found by the National Labor Relations Board (“NLRB”) or the Wisconsin Employment Relations Commission (“WERC”) to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

\_\_\_\_\_ been found by the National Labor Relations Board (“NLRB”) or the Wisconsin Employment Relations Commission (“WERC”) to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

\_\_\_\_\_  
Officer or Authorized Agent Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed or Typed Name and Title

\_\_\_\_\_  
Printed or Typed Business Name

**NOTE:** You can find information regarding the violations described above at: [www.nlrb.gov](http://www.nlrb.gov) and [werc.wi.gov](http://werc.wi.gov).

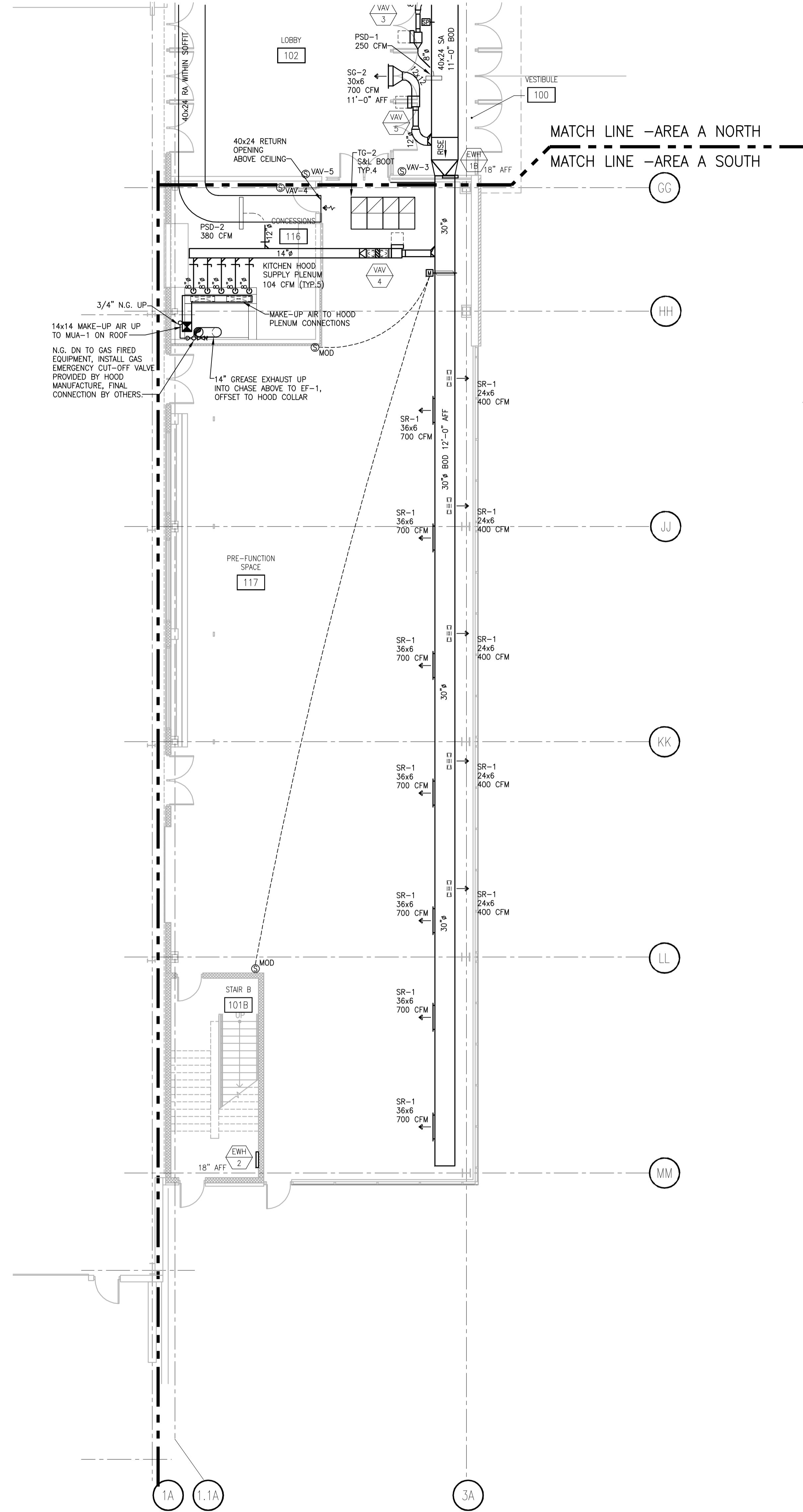
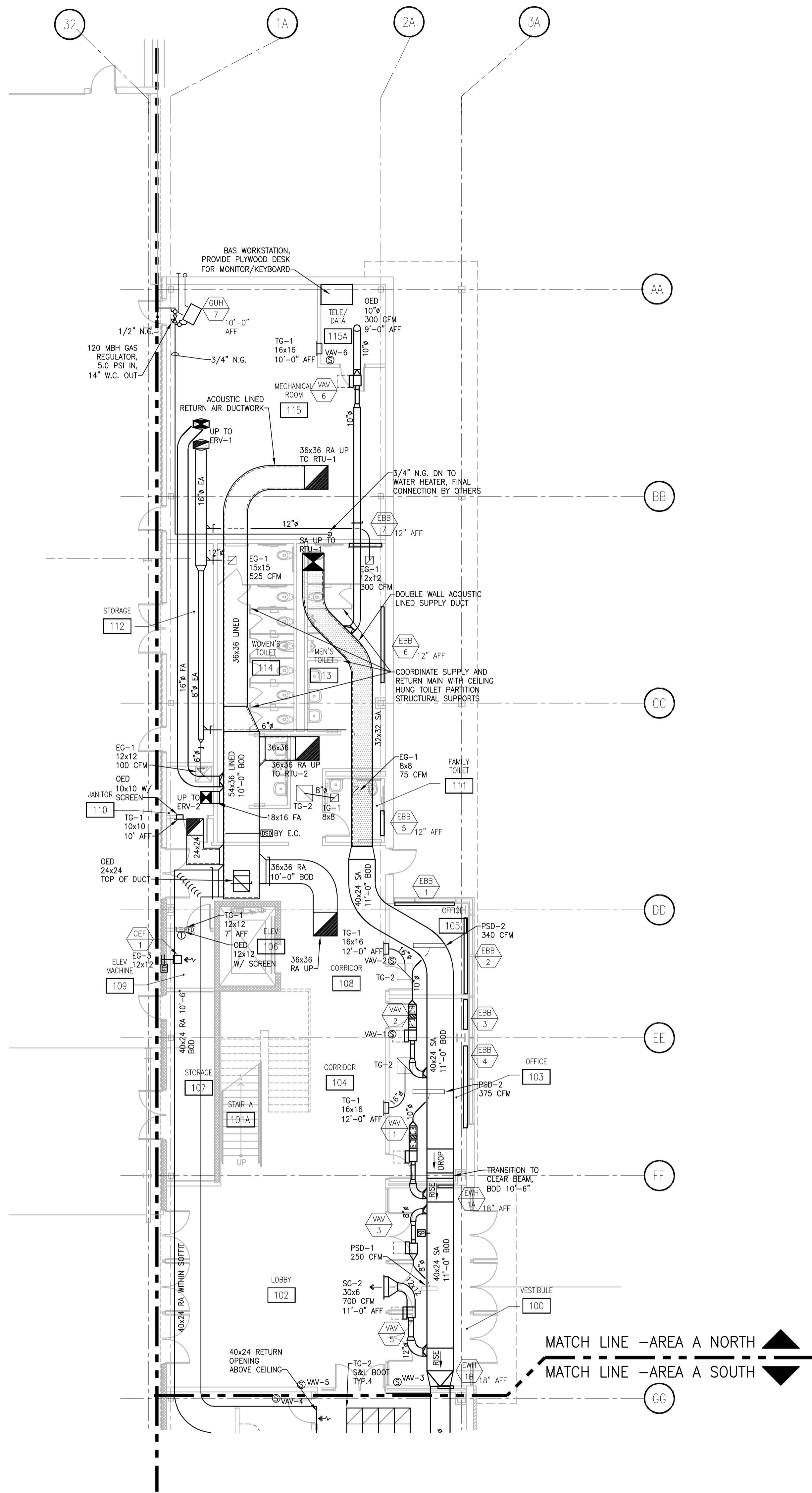
For reference, Dane County Ordinance 25.09 is as follows:

(1) BIDDER RESPONSIBILITY. (a) Any bid, application or proposal for any contract with the county, including public works contracts regulated under chapter 40, shall include a certification indicating whether the bidder has been found by the National Labor Relations Board (NLRB) or the Wisconsin Employment Relations Committee (WERC) to have violated any statute or regulation regarding labor standards or relations within the last seven years. The Controller shall investigate any such finding and make a recommendation to the committee, which shall determine whether the conduct resulting in the finding affects the bidder’s responsibility to perform the contract.

**If you indicated that the NLRB or WERC have found you to have such a violation, you must include copies of any relevant information regarding such violation with your proposal, bid or application.**

Include this completed Certification with your bid, application or proposal.

END OF SECTION



**HVAC LEGEND**

HVAC SYMBOL LEGEND	PIPING SYMBOL LEGEND	ABBREVIATIONS
Double Wall Ductwork	Pressure Reducing Valve	AD Access Door
Acoustic Lined Ductwork	Piping - Top Take-Off	AFF Above Finished Floor
SA or OA Duct Drop	Piping - Bottom Take-Off	BDD Backdraft Damper
RA or EA Duct Drop	Ball Valve	BOD Bottom of Duct
RA or EA Duct Riser	Capped Pipe	BOP Bottom of Pipe
RA Plenum Sound/Light Boot		CUH Cabinet Unit Heater
Electric Thermostat		DSD Duct Smoke Detector
DDC TEMPERATURE SENSOR		ESB Electric Baseboard
CD Ceiling Diffuser		E.C. Electrical Contractor
PSD Plenum Slot Diffuser		EF Exhaust Fan
DSD Duct Smoke Detector		EMH Electric Wall Heater
MCD Motor Operated Damper		EXH Exhaust
BD Balancing Damper		G.C. General Contractor
FD Fire Damper		M.C. Mechanical Contractor
SP Static Pressure Sensor		NC Normally Closed
EQUIPMENT TAG		NO Normally Open
		OA Outside Air
		OED Open End Duct
		P.C. Plumbing Contractor
		RA Return Air
		SA Supply Air
		T.C.V. Temperature Control Valve
		TD Top of Duct
		TOP Top of Pipe
		UH Unit Heater
		VAV Variable Air Volume

**GENERAL NOTES**

THIS BUILDING UTILIZES A RETURN AIR PLENUM. ALL MATERIALS INSTALLED ABOVE CEILING SHALL BE RATED FOR PLENUM USE.

MOUNT ROOM TEMPERATURE SENSORS @ 60" AFF UNLESS NOTED OTHERWISE.

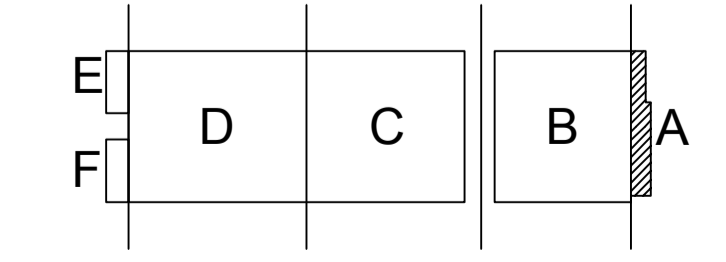
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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

**FIRST FLOOR HVAC PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"

**FIRST FLOOR HVAC PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"

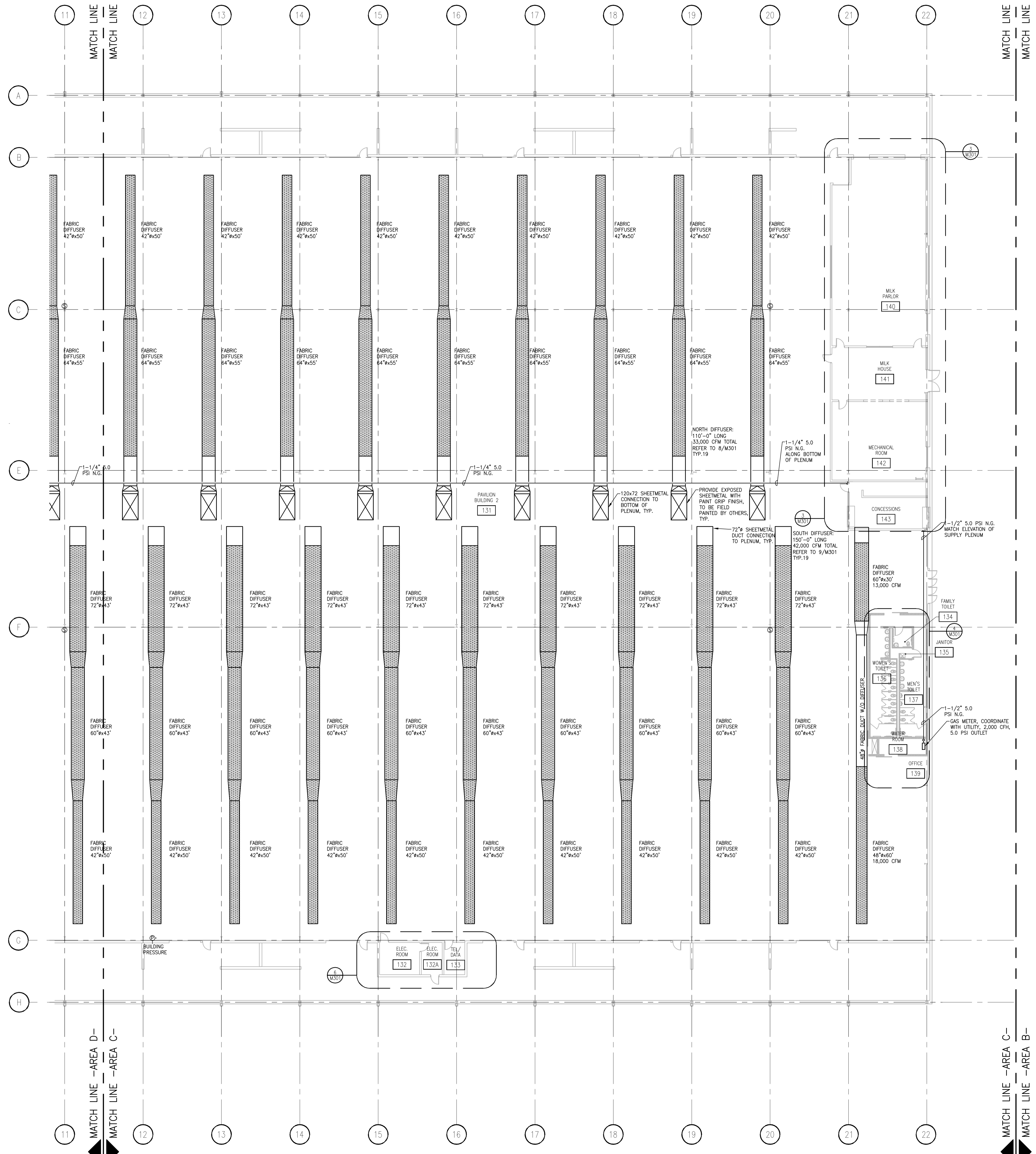


**KEY PLAN**  
**FIRST FLOOR HVAC PLAN AREA A - BLD 1**  
**M201A**

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**GENERAL NOTES**  
MOUNT ZONE TEMPERATURE SENSORS @ 72" AFF  
UNLESS NOTED OTHERWISE.

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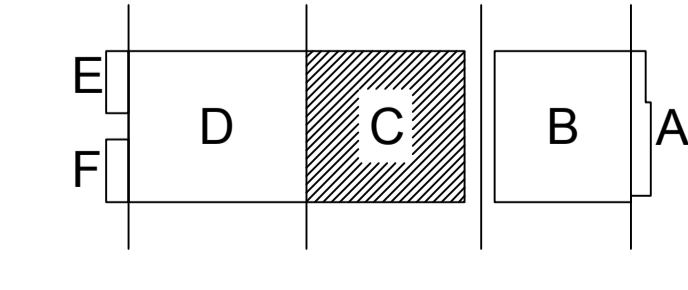
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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
AREA C - BLD 2**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

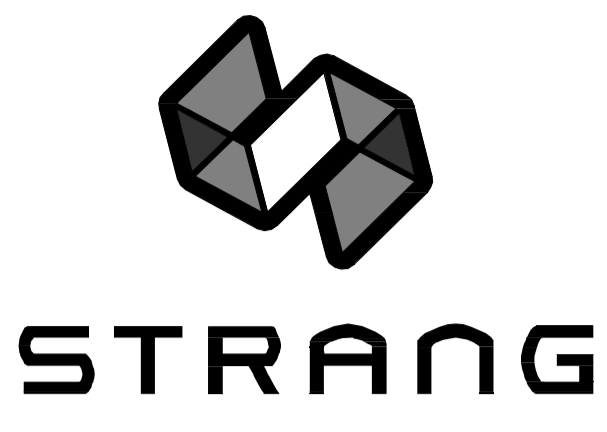
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HVAC PLAN  
AREA C - BLD 2**

SHEET NO.  
**M201C**



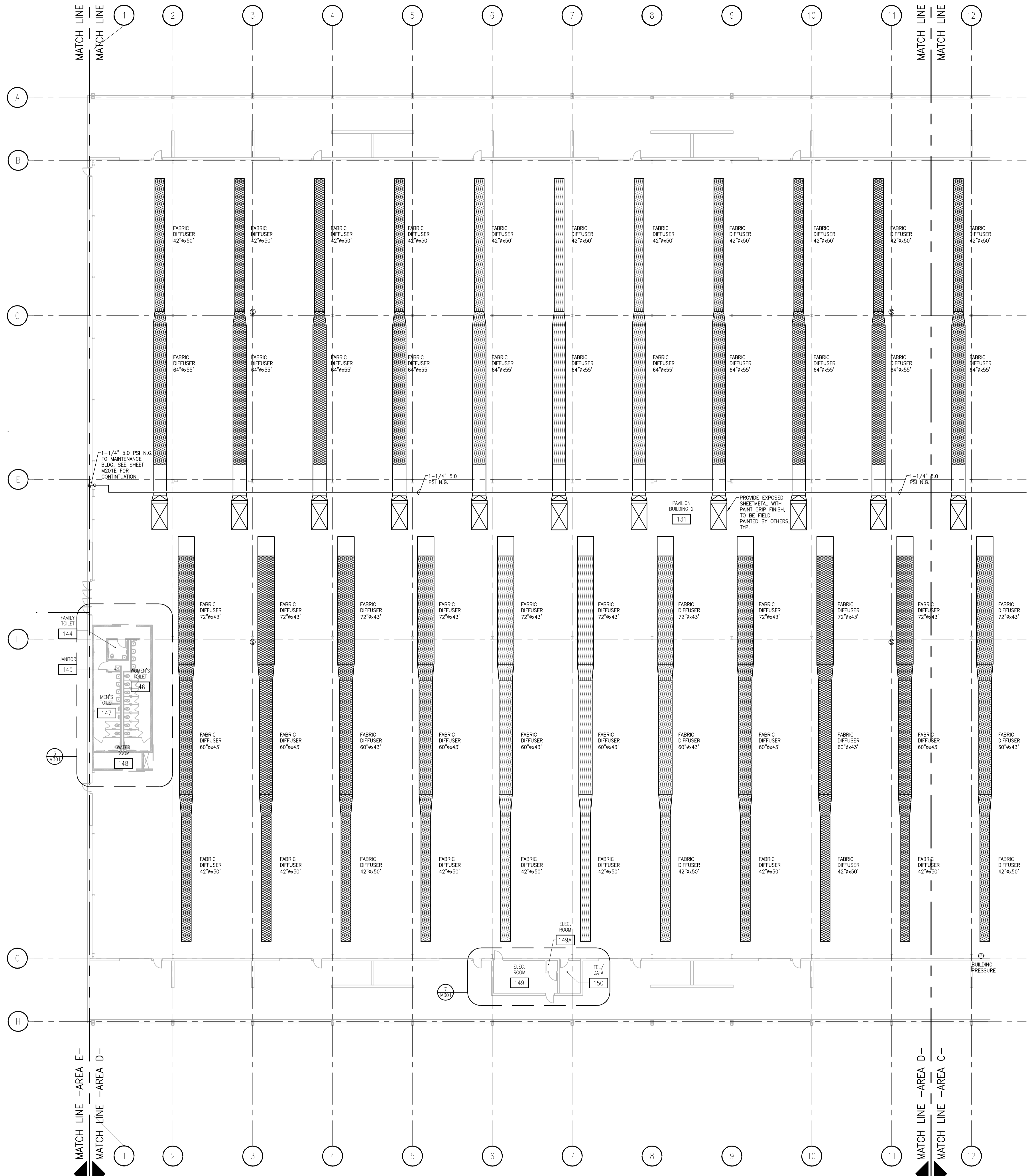
**FIRST FLOOR HVAC PLAN - AREA C**  
SCALE: 1/16" = 1'-0"

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ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204



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PROJECT TITLE	

**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

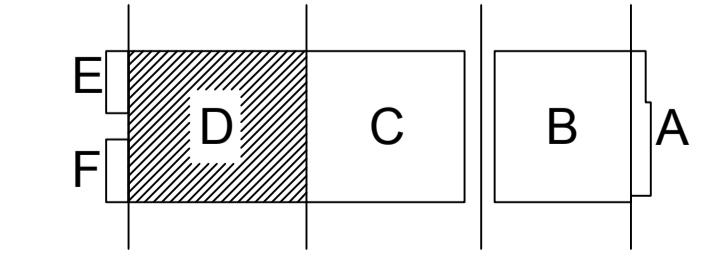
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MADISON, WISCONSIN 53713

SHEET TITLE  
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AREA D - BLD 2**

SHEET NO.  
**M201D**

**GENERAL NOTES**

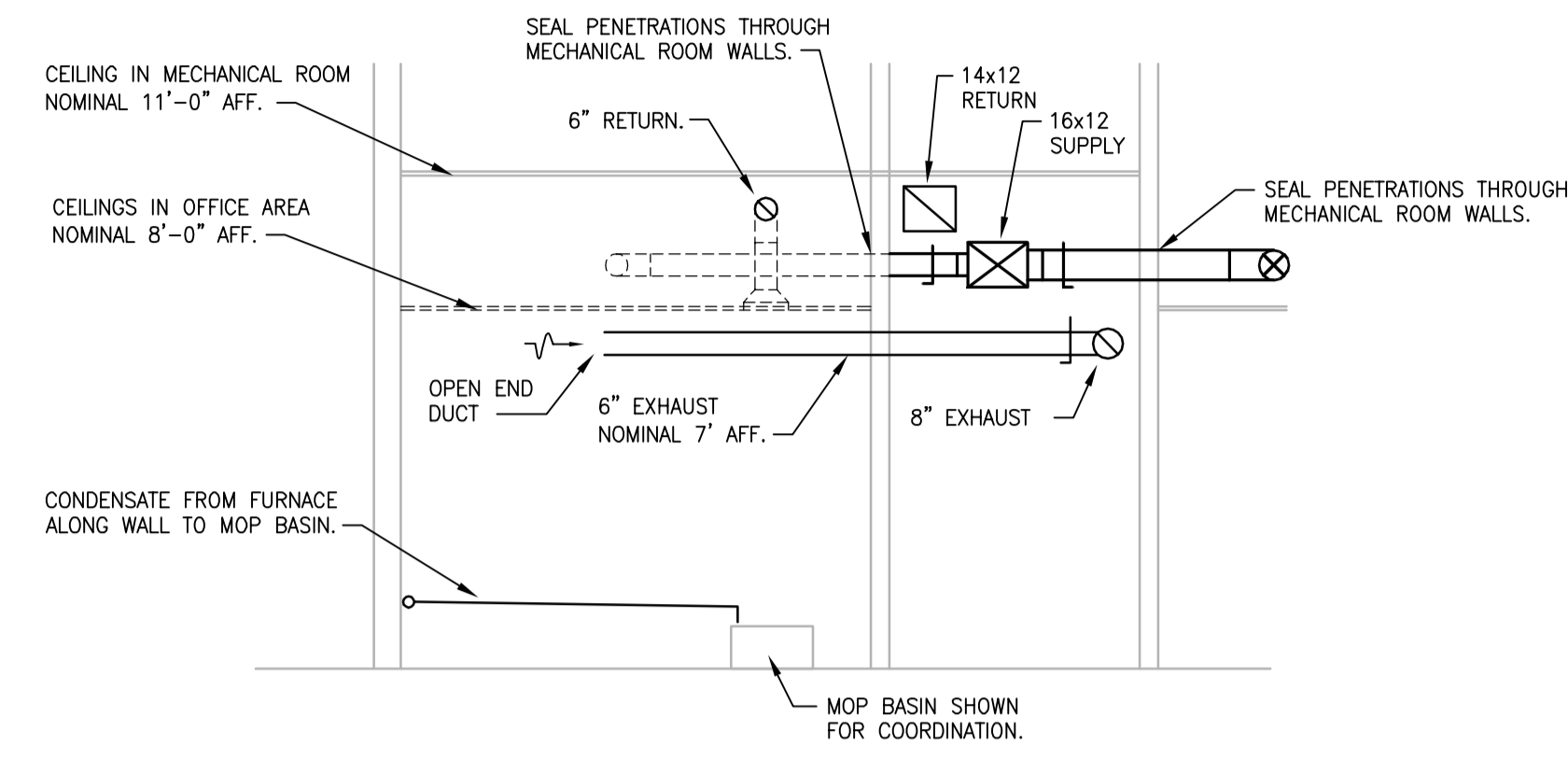
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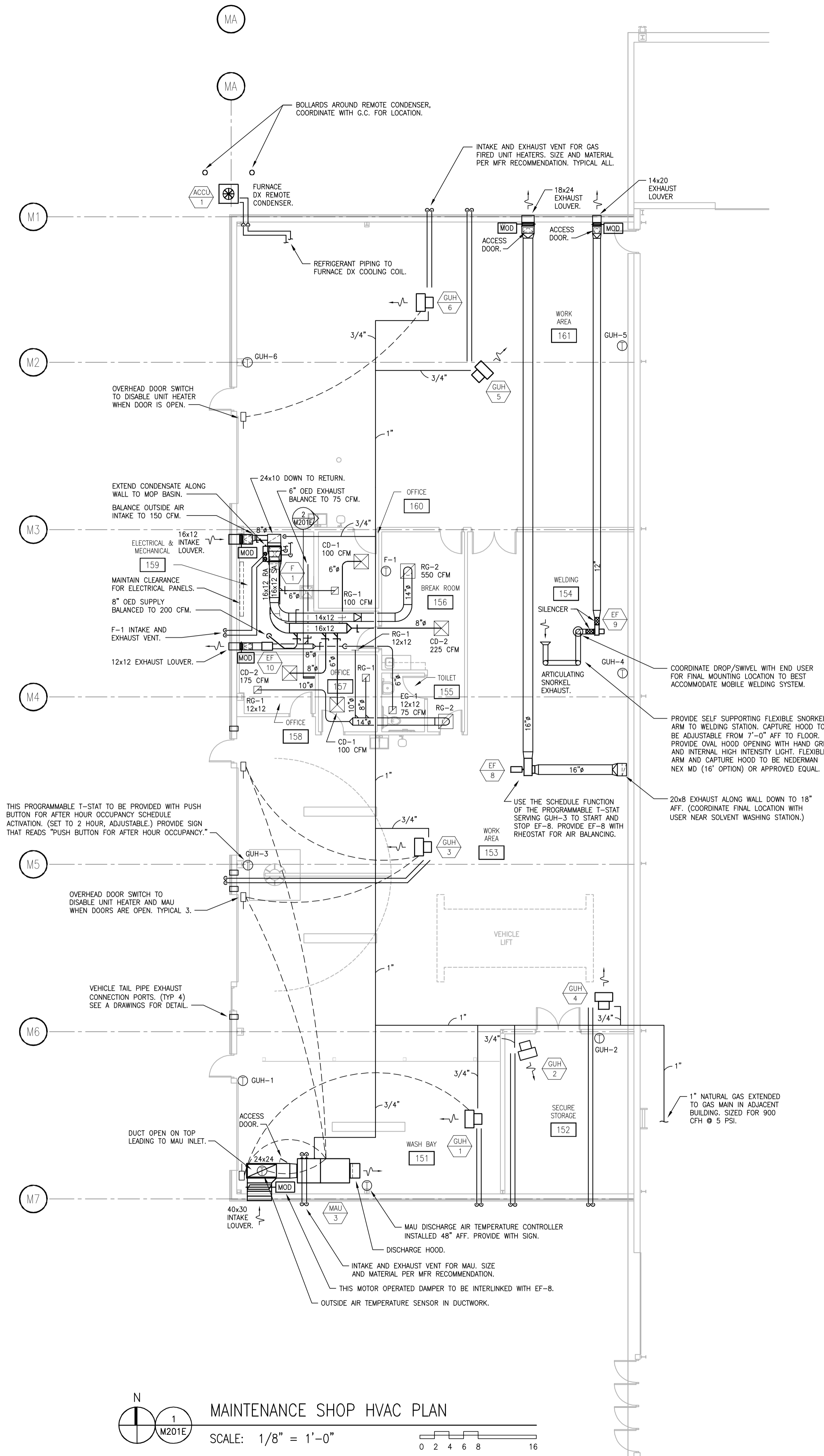
**FIRST FLOOR HVAC PLAN - AREA D**  
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M201E  
MECHANICAL ROOM SECTION  
SCALE: 1/4" = 1'-0"



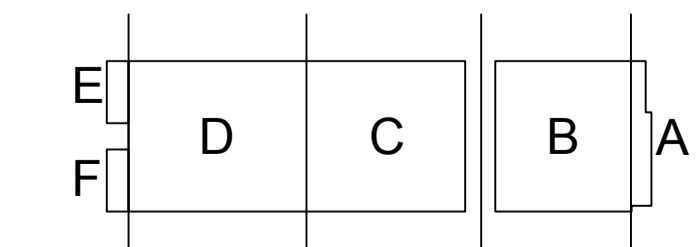
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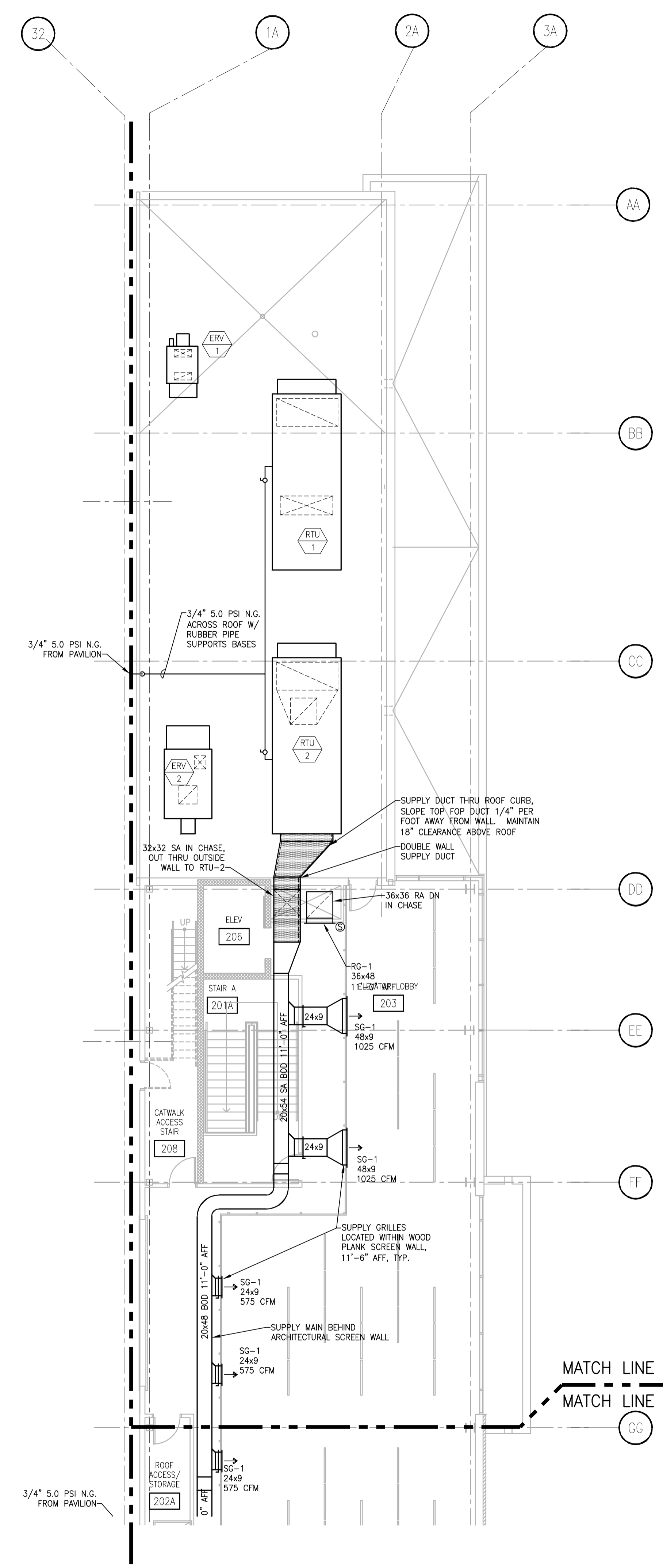
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CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

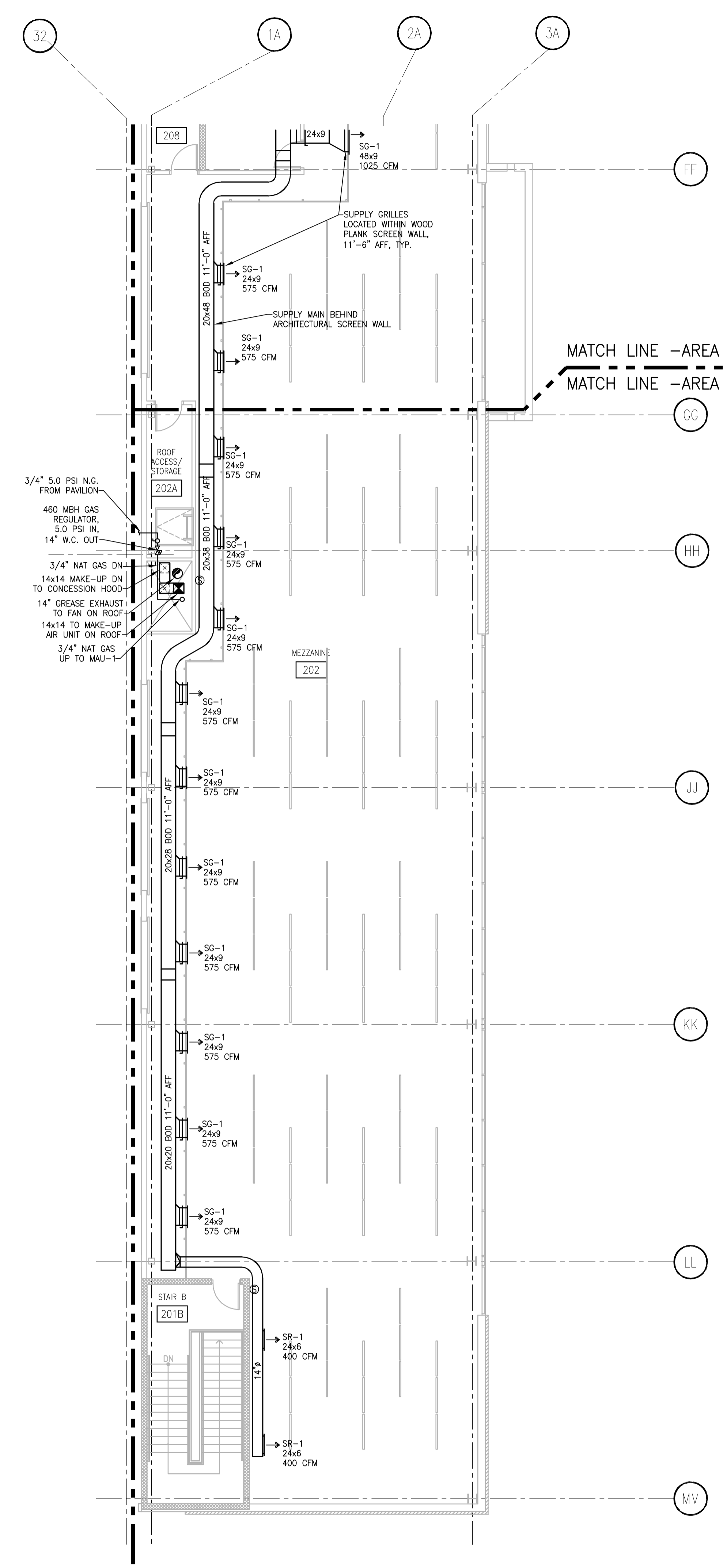


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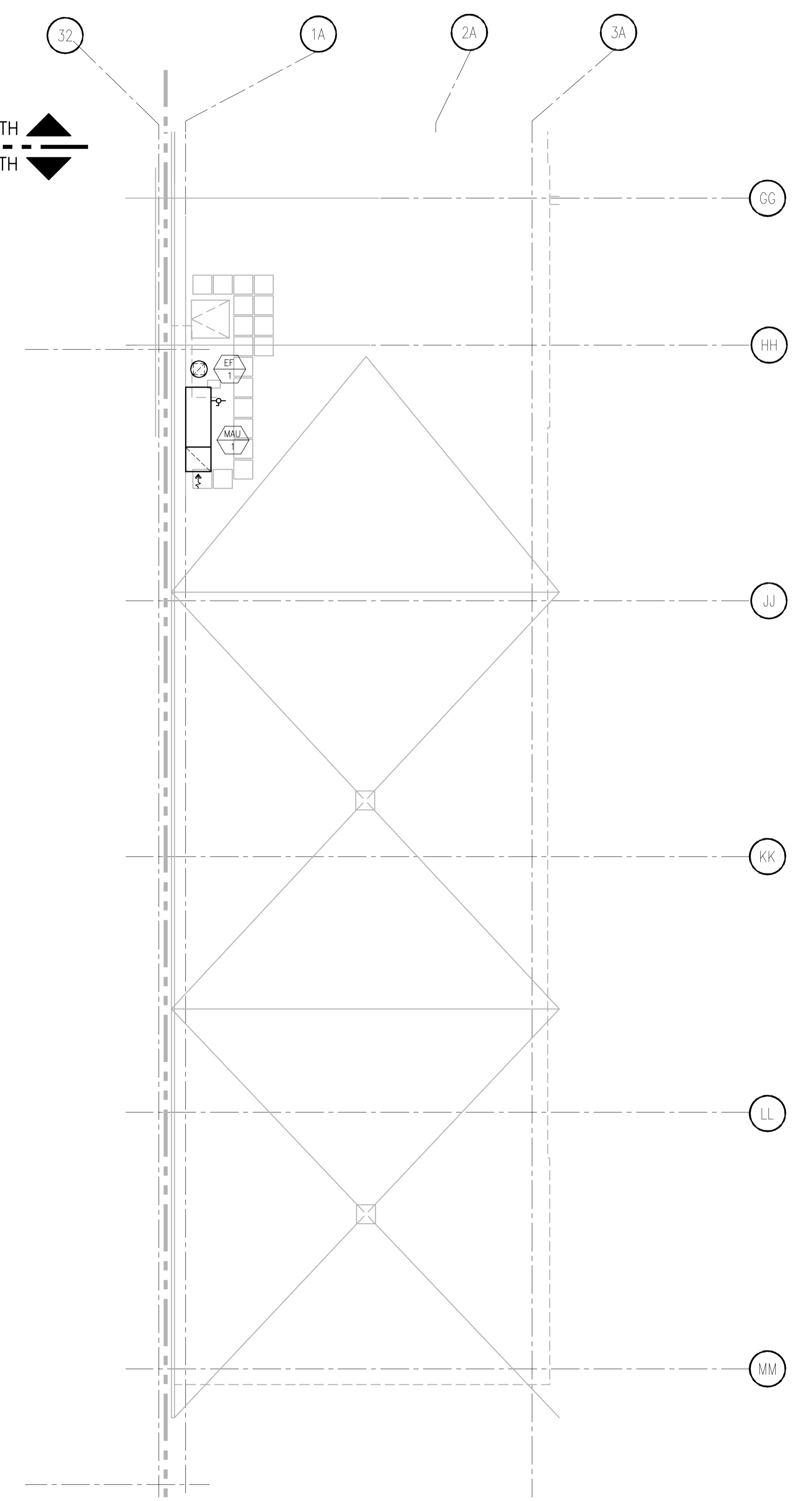
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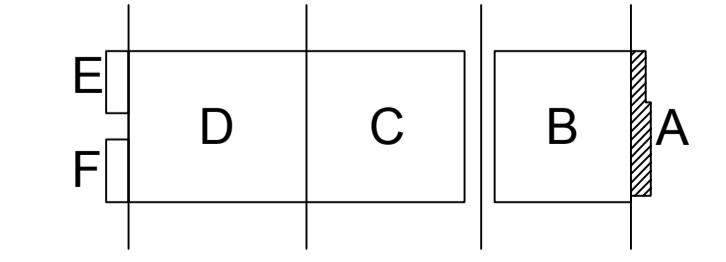
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SCALE: 1/8" = 1'-0"



MEZZANINE HVAC FLOOR PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"



PARTIAL HVAC ROOF PLAN - AREA A  
SCALE: 1/8" = 1'-0"



KEY PLAN

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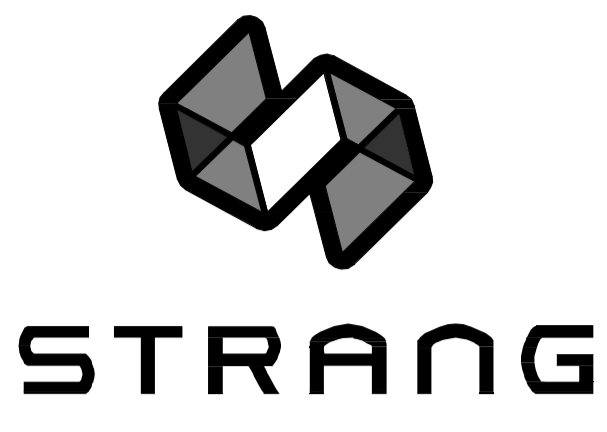
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**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
HVAC PLAN  
AREA A - BLD 1**

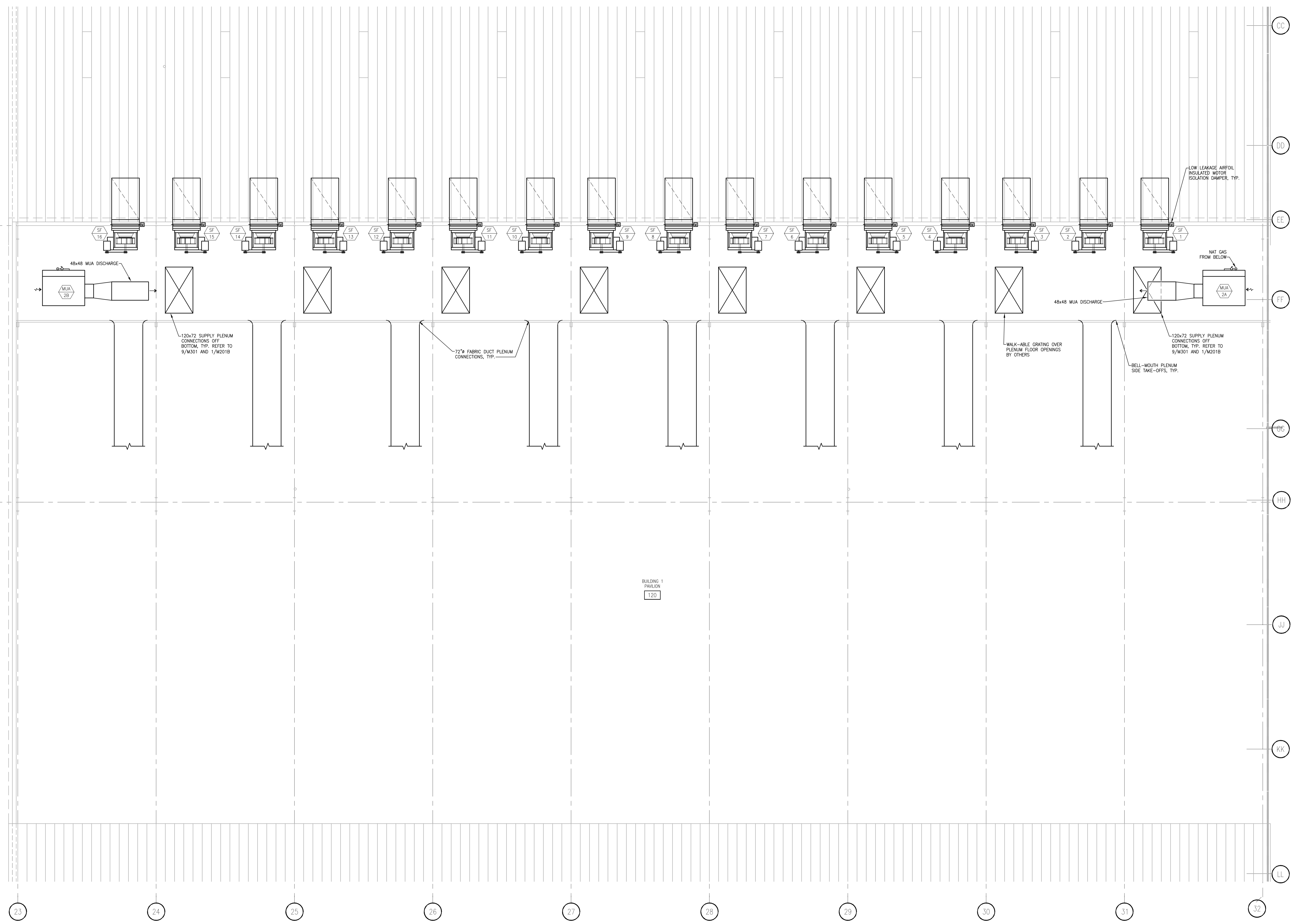
SHEET NO.  
**M202A**

JUSTIN BALUNEG, 2013-12-12, 3:15 PM (K), 2013027\_02\_M202A.DWG - ALLIANT ENERGY CENTER - LESE2013027\_02 - AC - LE HALLDRAWINGS2013027\_02\_M202A.DWG



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204



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PROJECT NO.	2013027_02
PROJECT TITLE	

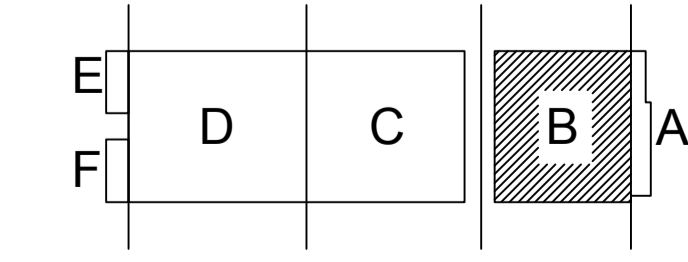
**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

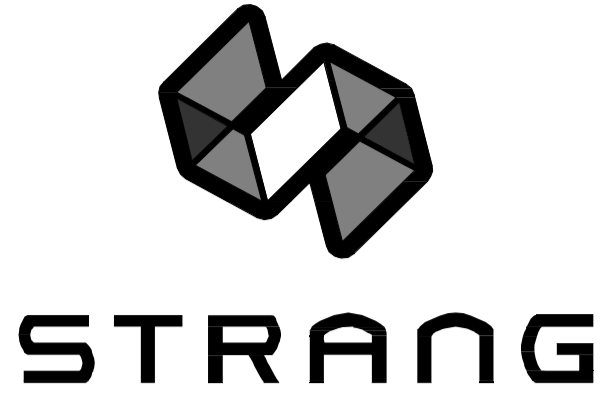
SHEET TITLE  
**MEZZANINE  
HVAC PLAN  
AREA B - BLD 1**

SHEET NO.  
**M202B**

**MEZZANINE PLAN - AREA B**  
SCALE: 1/8" = 1'-0"

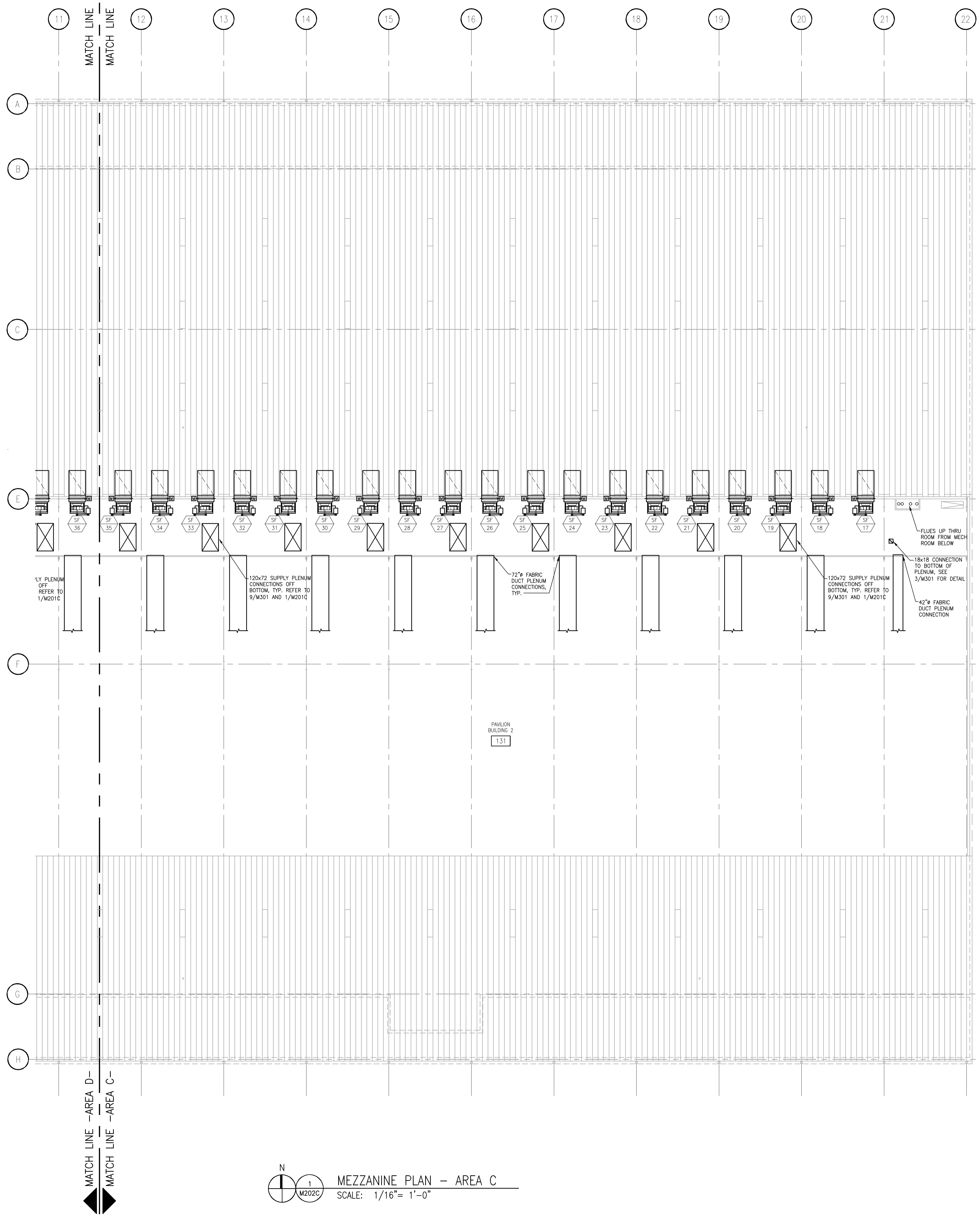


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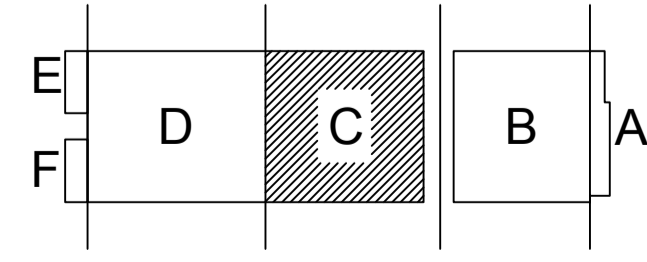


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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

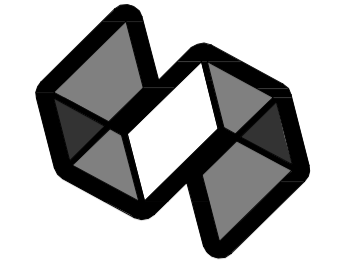


KEY PLAN

SHEET TITLE  
**MEZZANINE  
HVAC PLAN  
AREA C - BLD 2**

SHEET NO.  
**M202C**

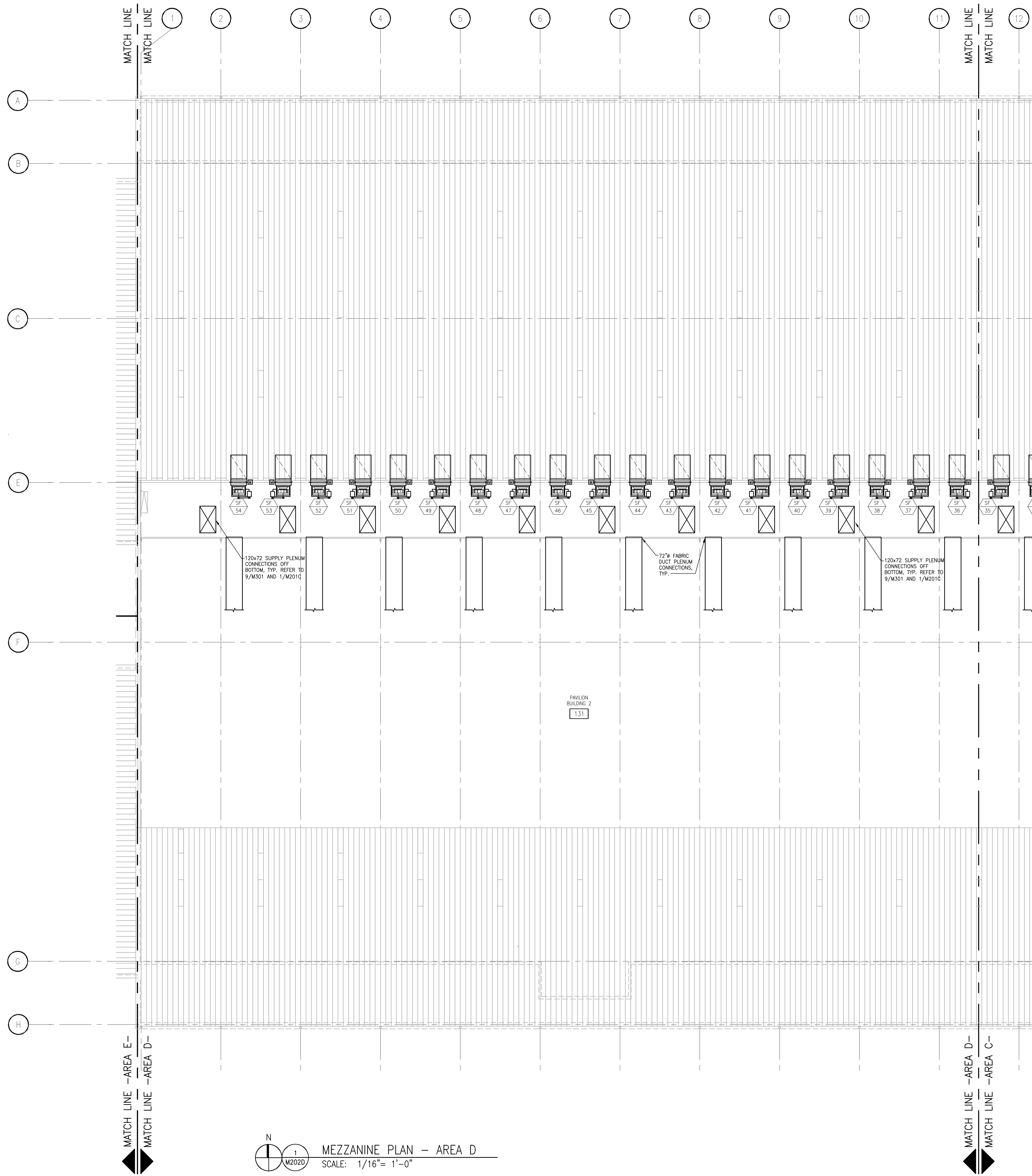
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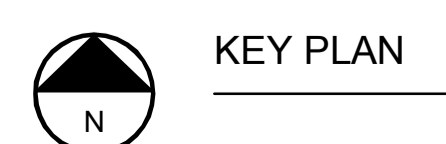
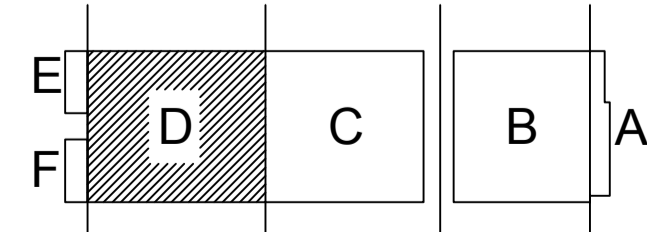
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CHECKED	RM
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
MEZZANINE  
HVAC PLAN  
AREA D - BLD 2

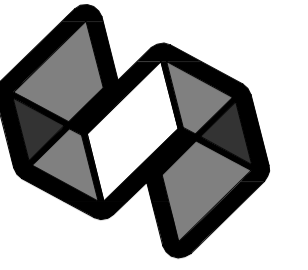
SHEET NO.  
M202D



KEY PLAN

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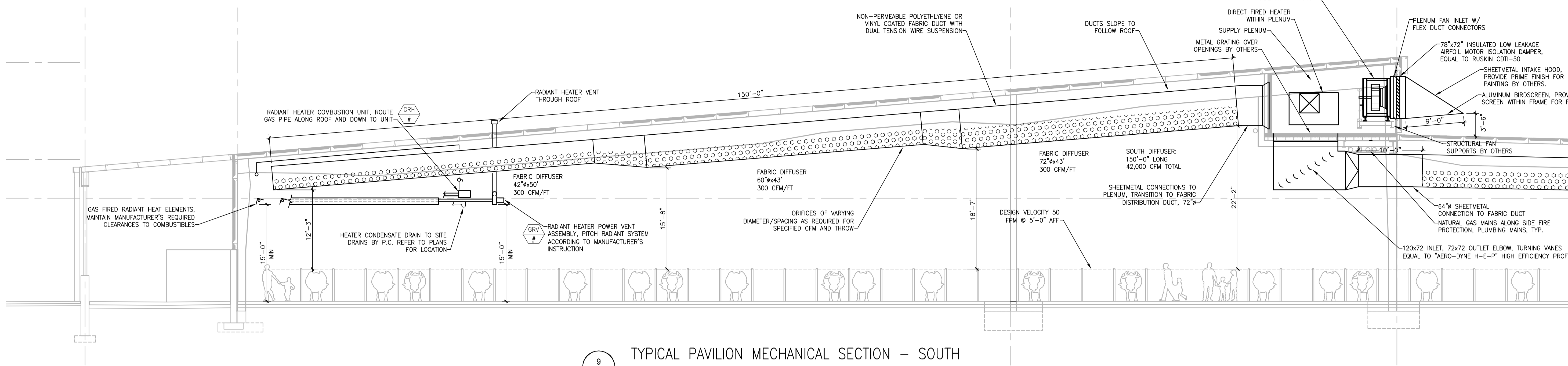
STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
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F/ 608 276 9204

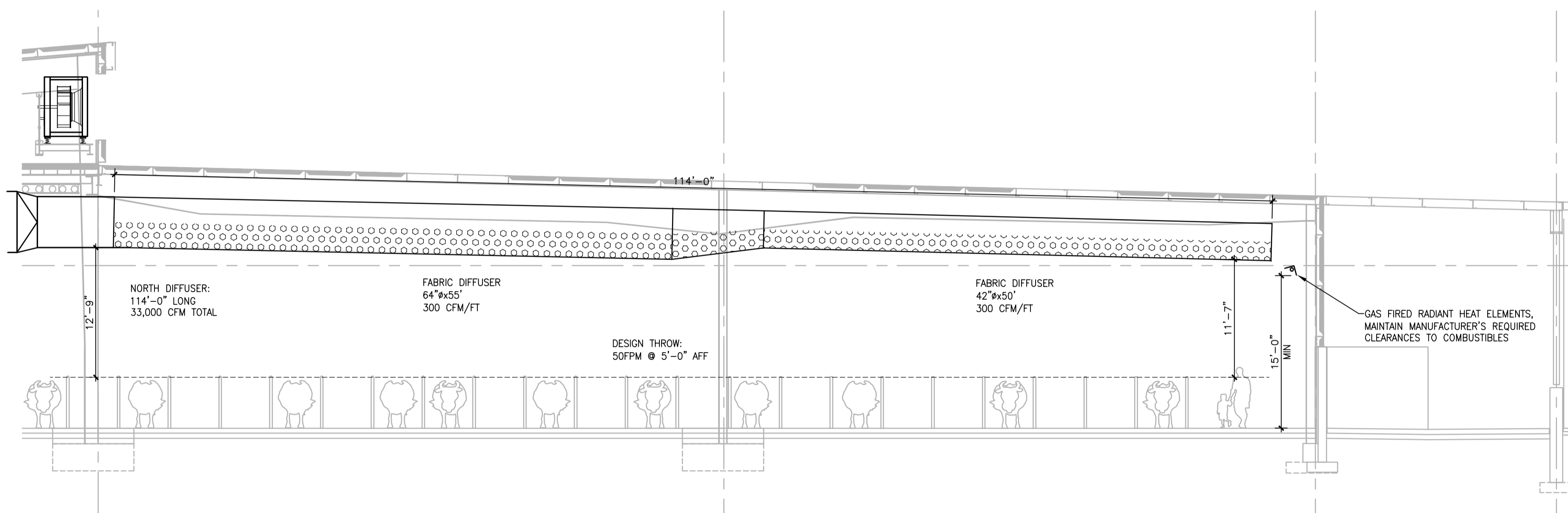
GENERAL NOTES

MOUNT ZONE TEMPERATURE SENSORS @ 60" AFF  
UNLESS NOTED OTHERWISE.



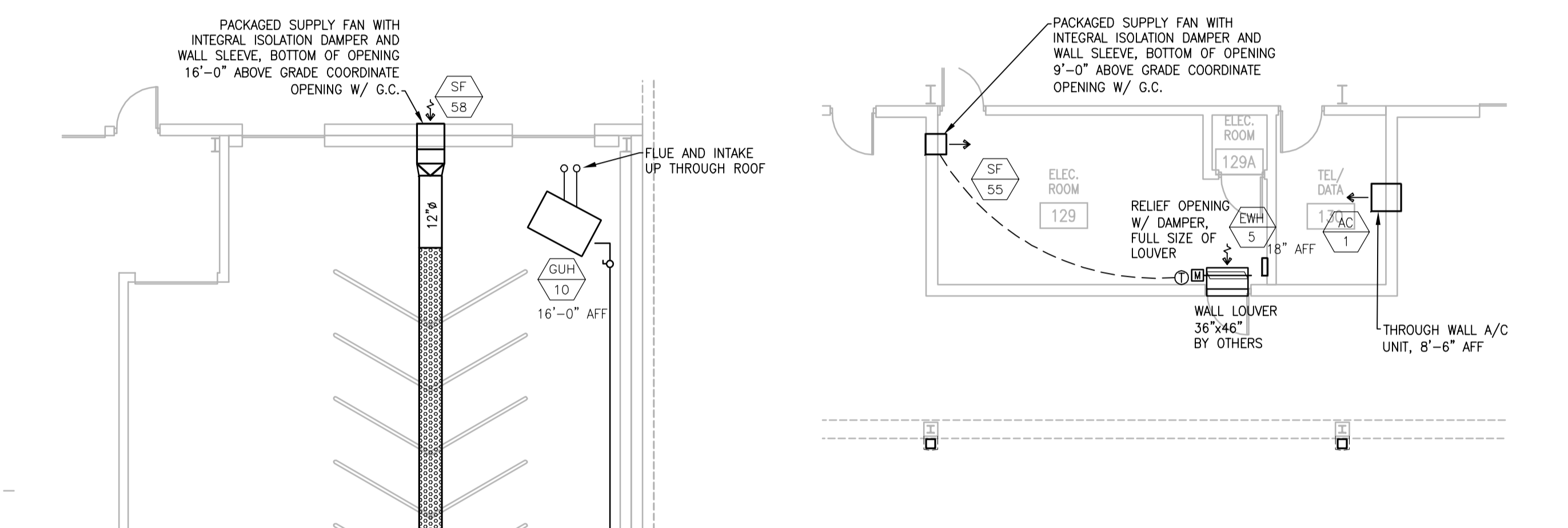
9 TYPICAL PAVILION MECHANICAL SECTION - SOUTH

M301 SCALE: 1/8" = 1'-0"



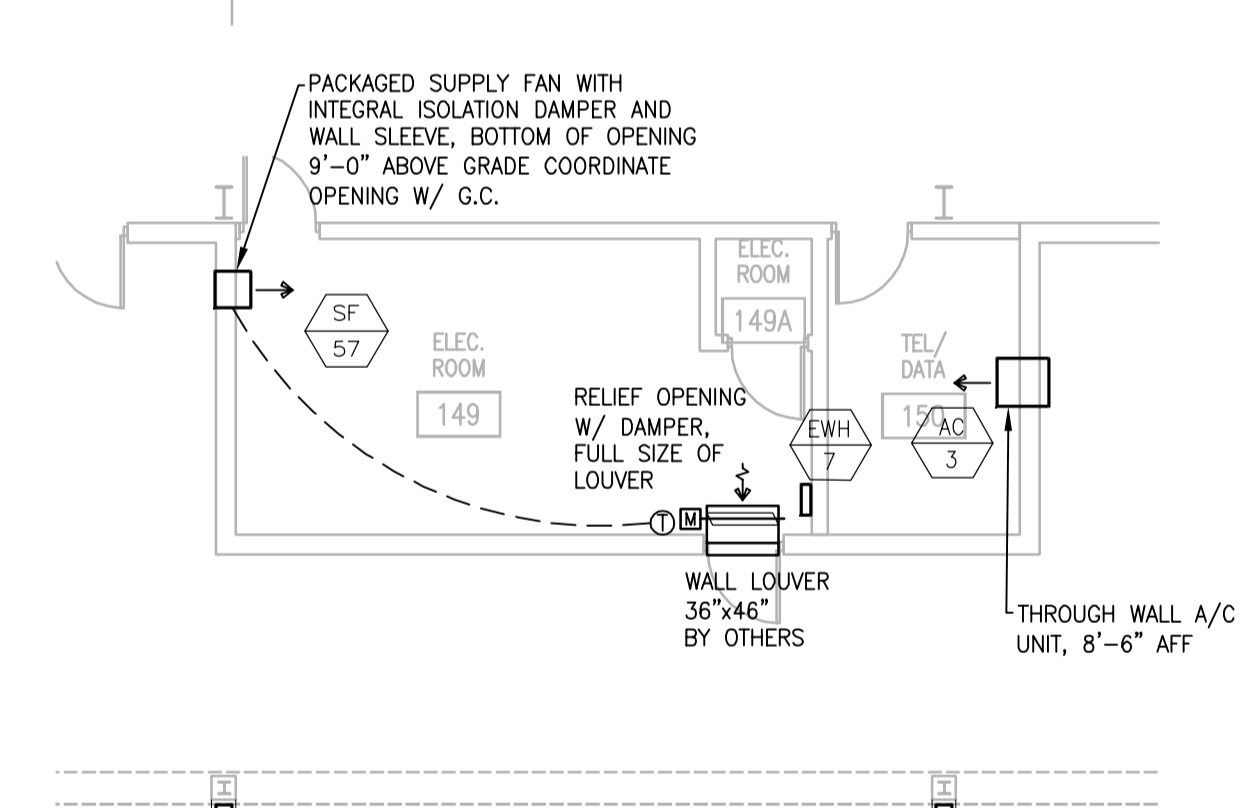
8 TYPICAL PAVILION MECHANICAL SECTION - NORTH

M301 SCALE: 1/8" = 1'-0"



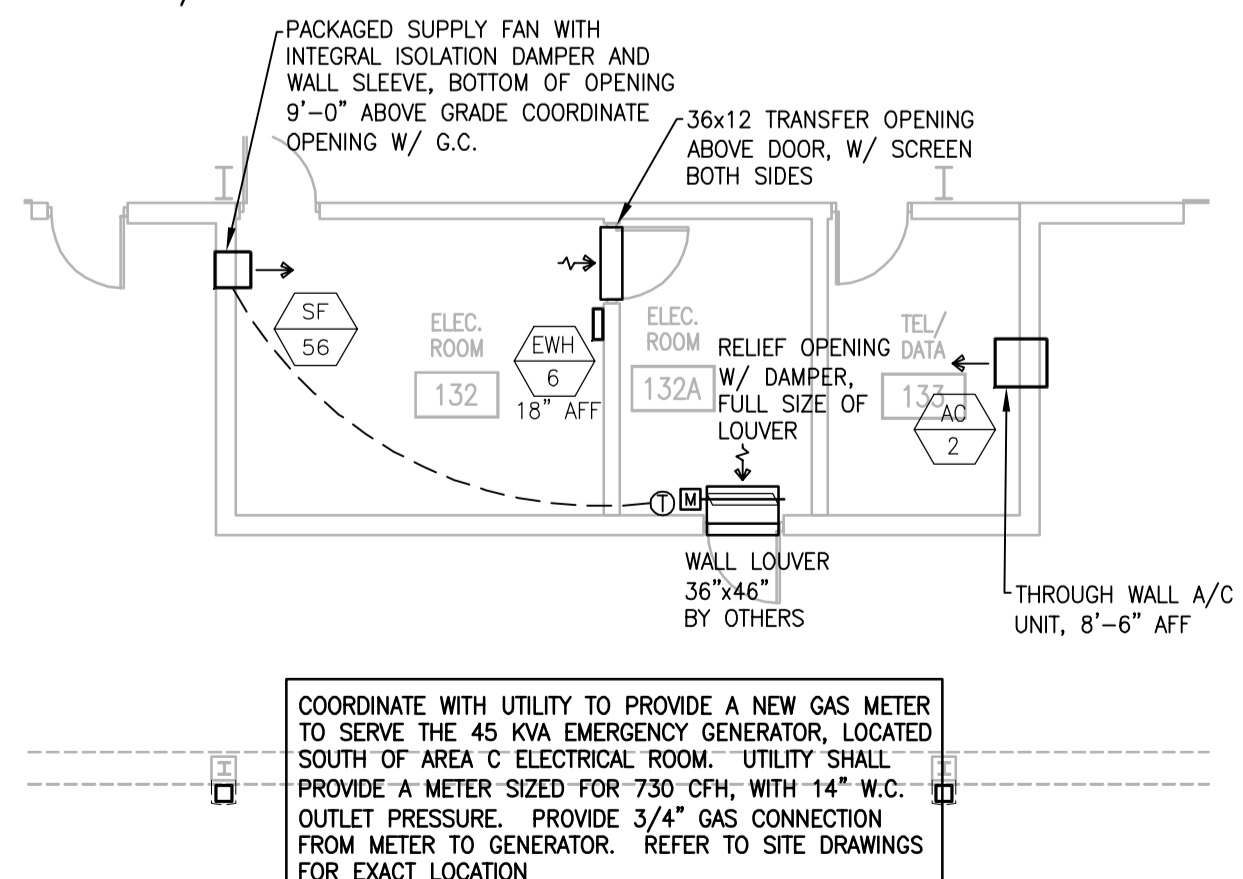
2 AREA B ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"



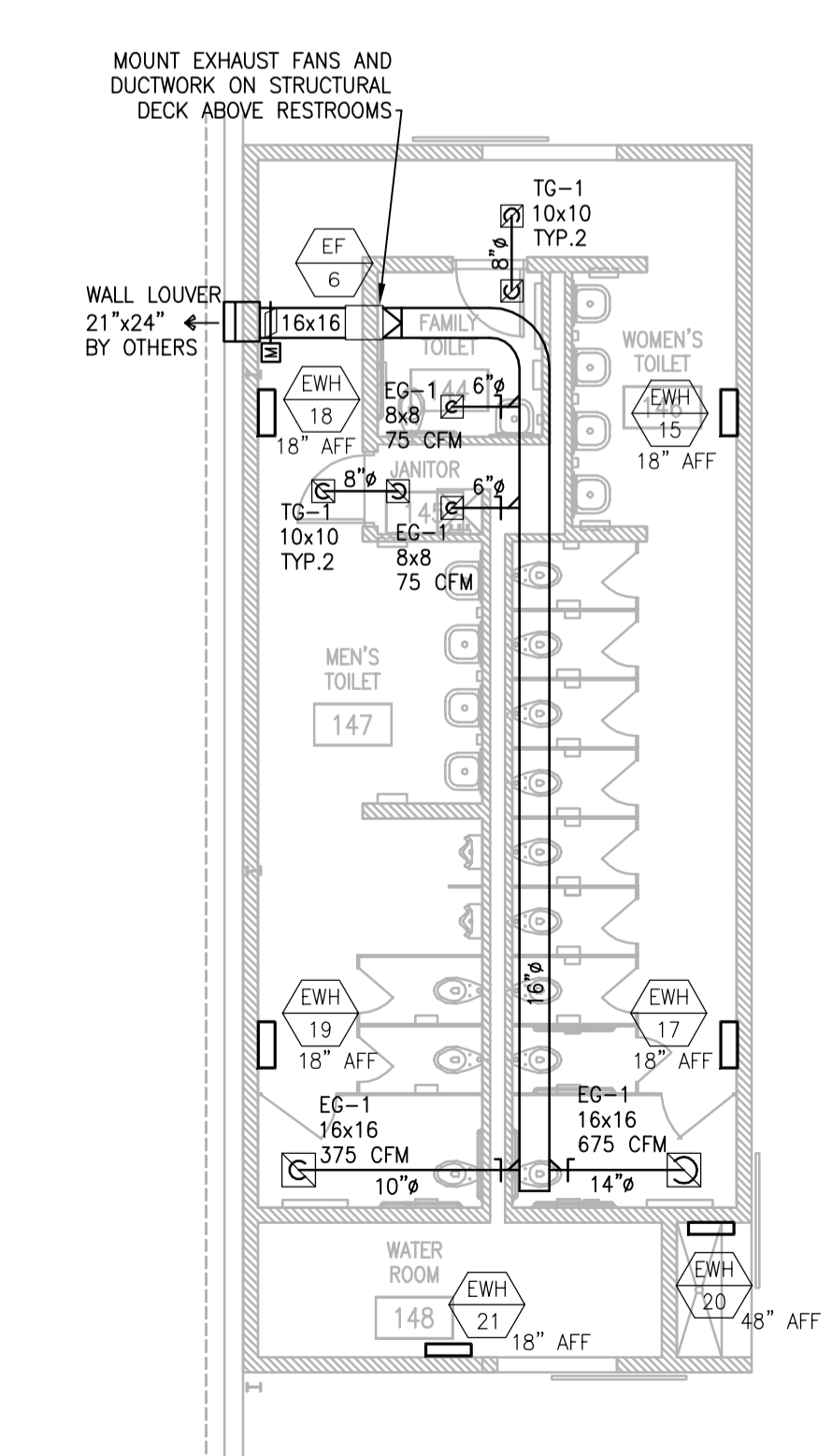
7 AREA D ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"



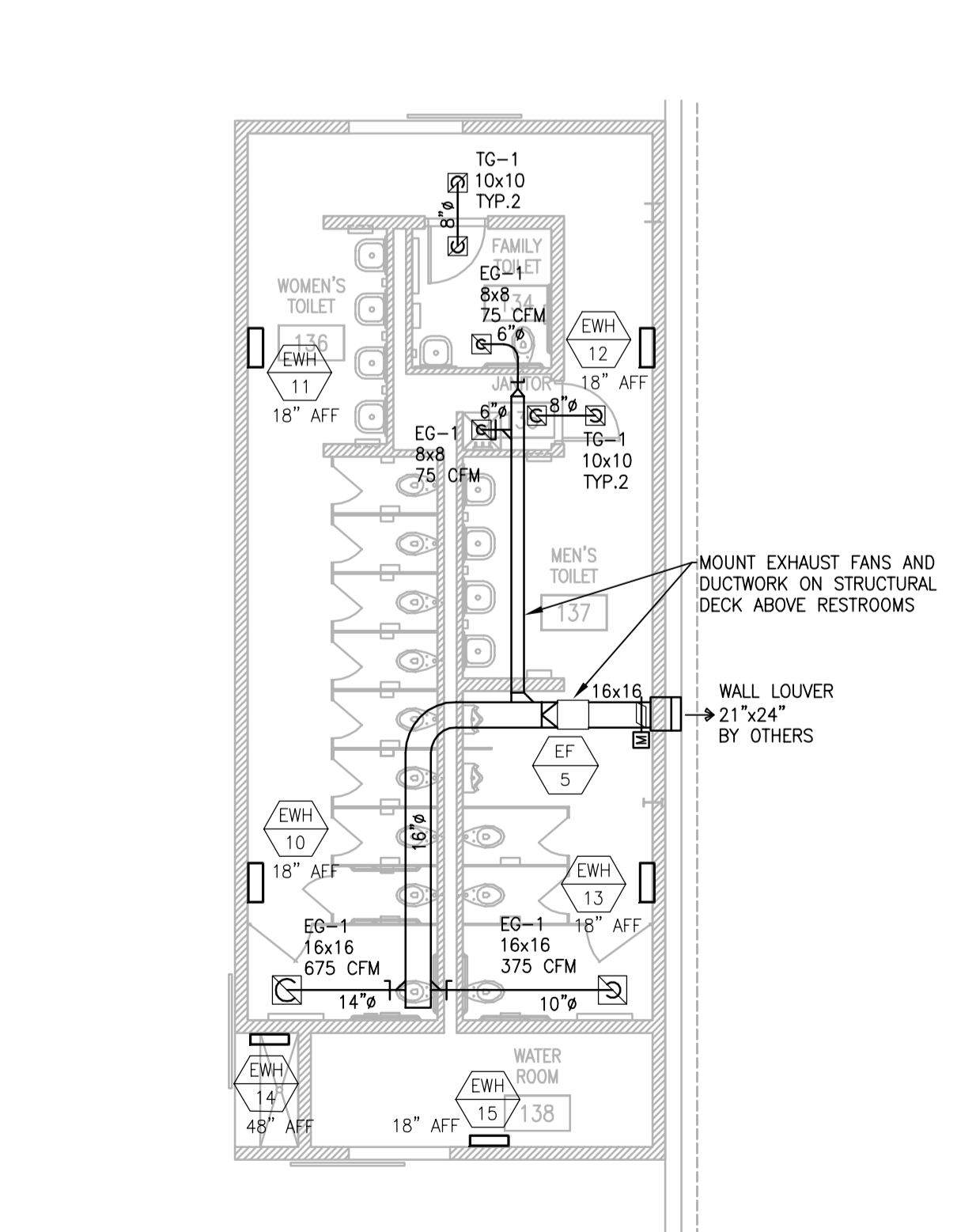
6 AREA C ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"



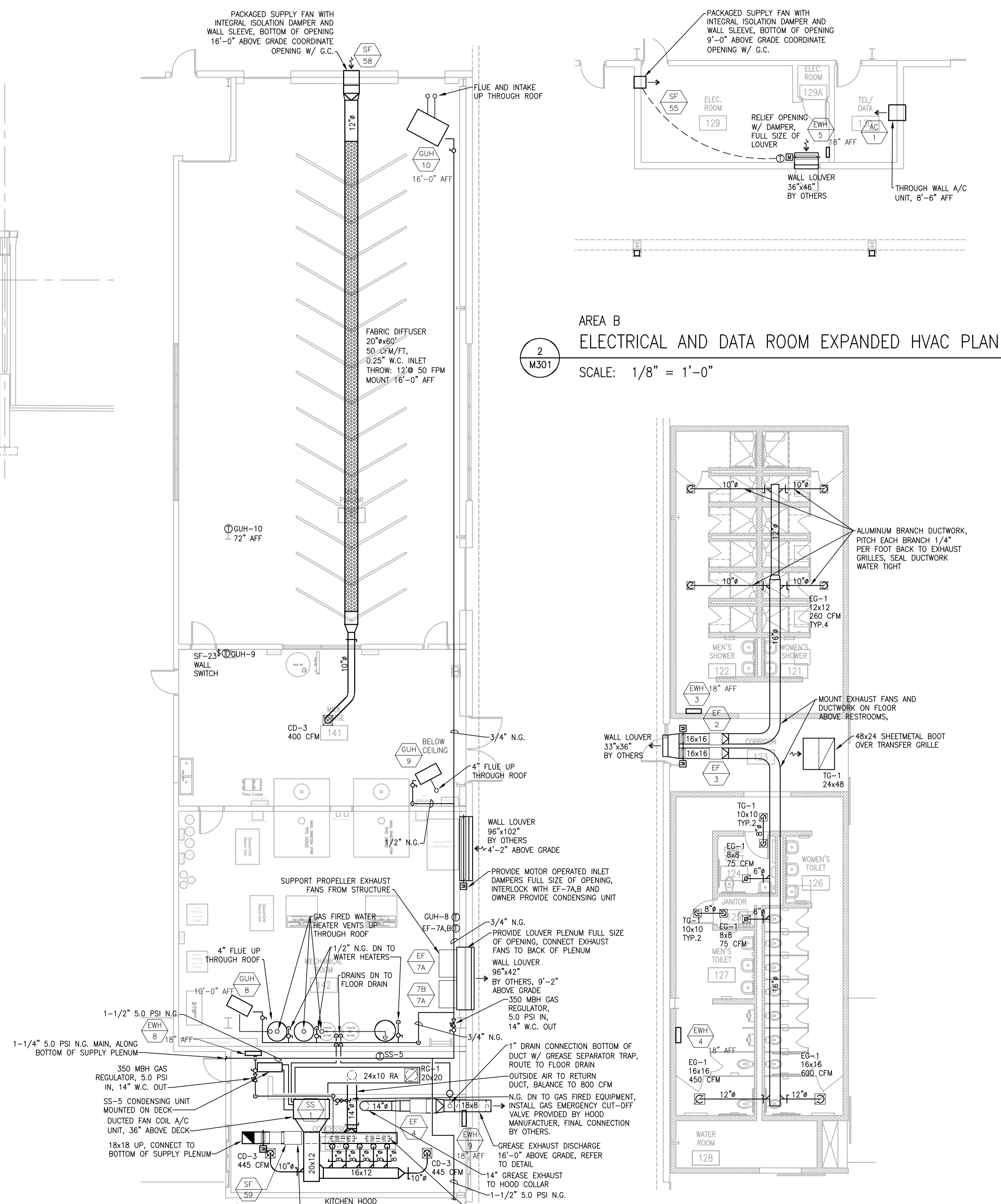
5 BUILDING 2 WEST RESTROOM EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"



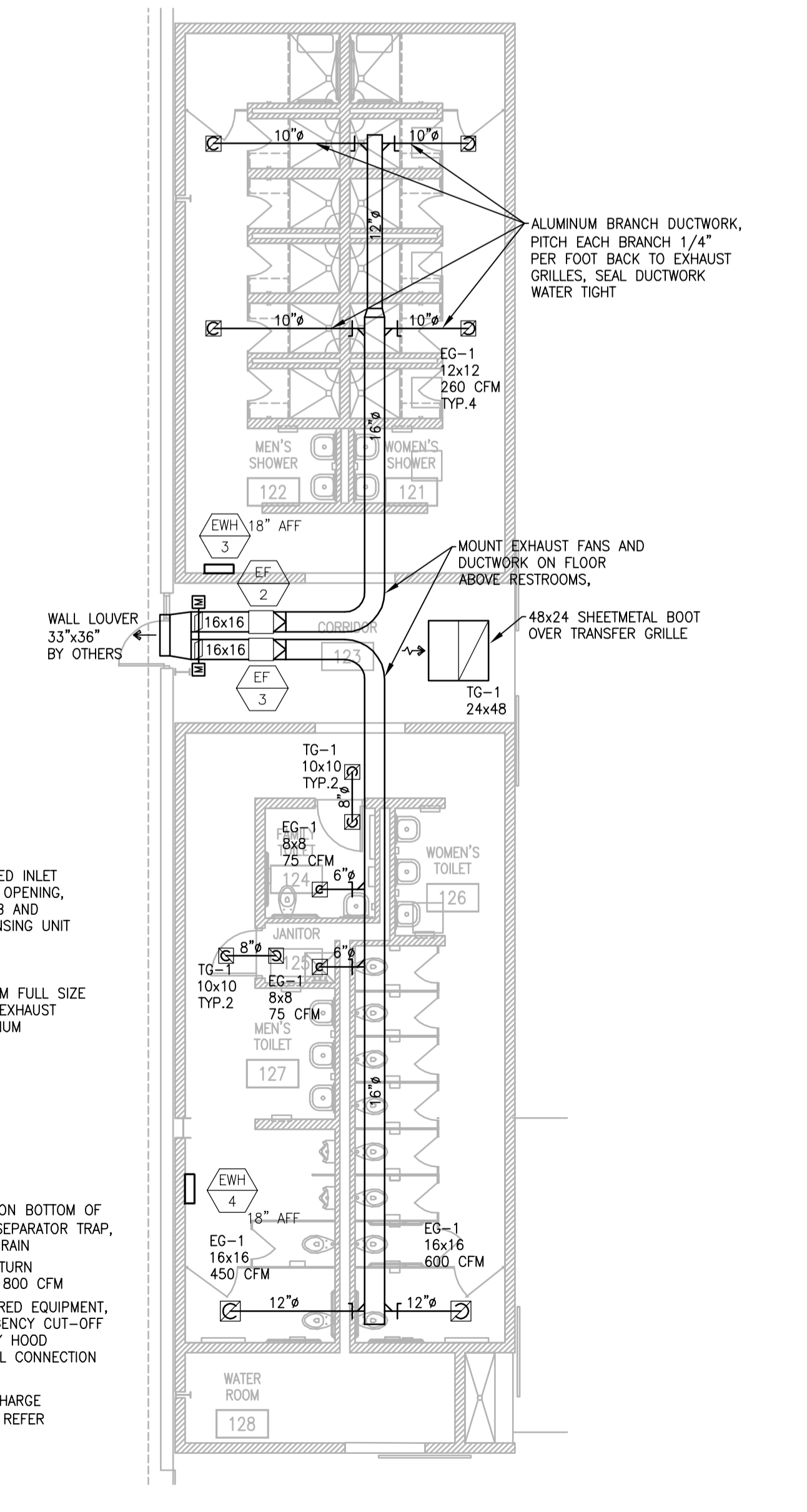
4 BUILDING 2 WEST RESTROOM EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"



3 BUILDING 2 CONCESSION AND MILK PARLOR EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"



1 BUILDING 1 RESTROOM AND SHOWER EXPANDED HVAC PLAN

M301 SCALE: 1/8" = 1'-0"

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PROJECT NO.	201302_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

MECHANICAL SECTIONS AND EXPANDED PLANS

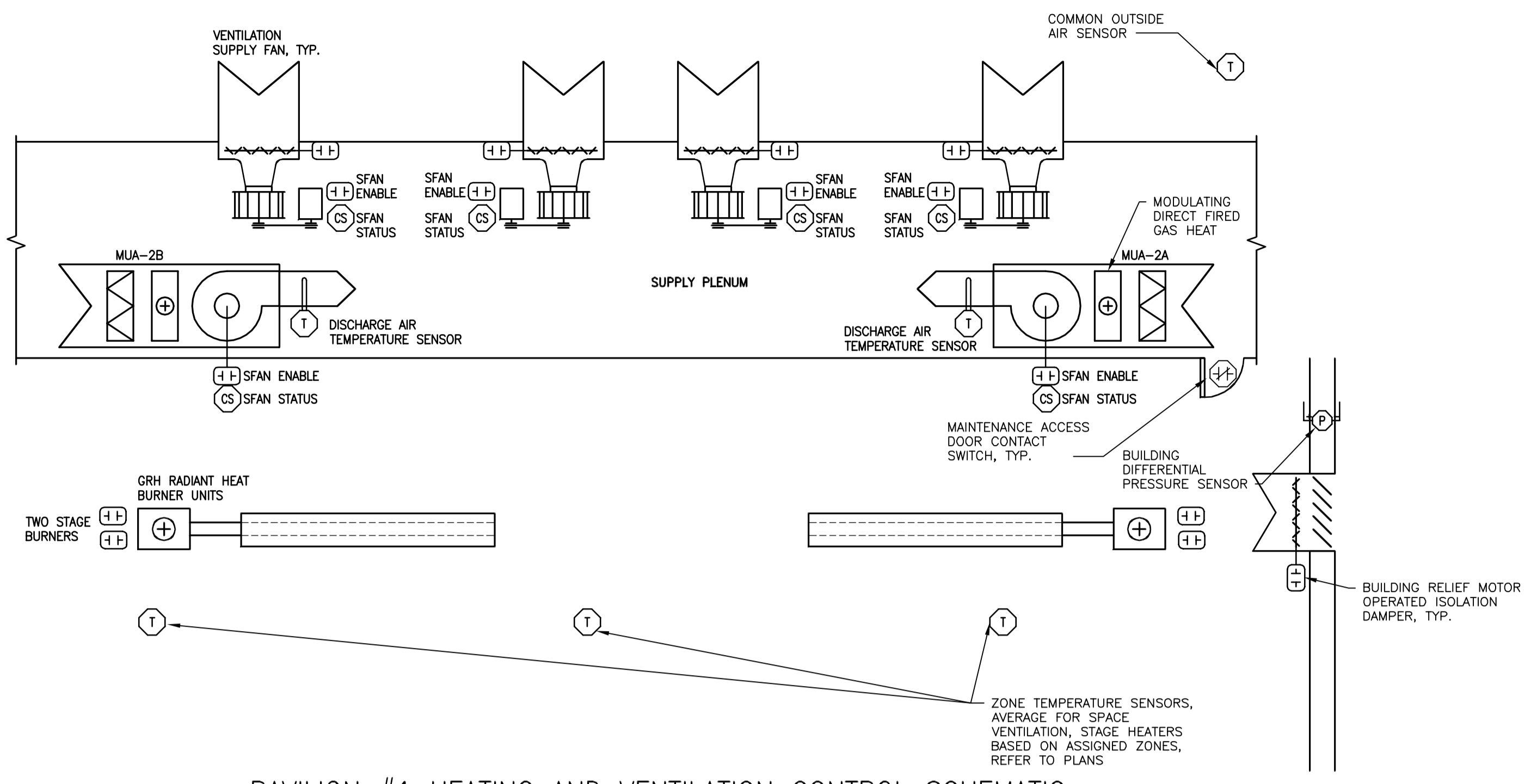
SHEET NO.

M301

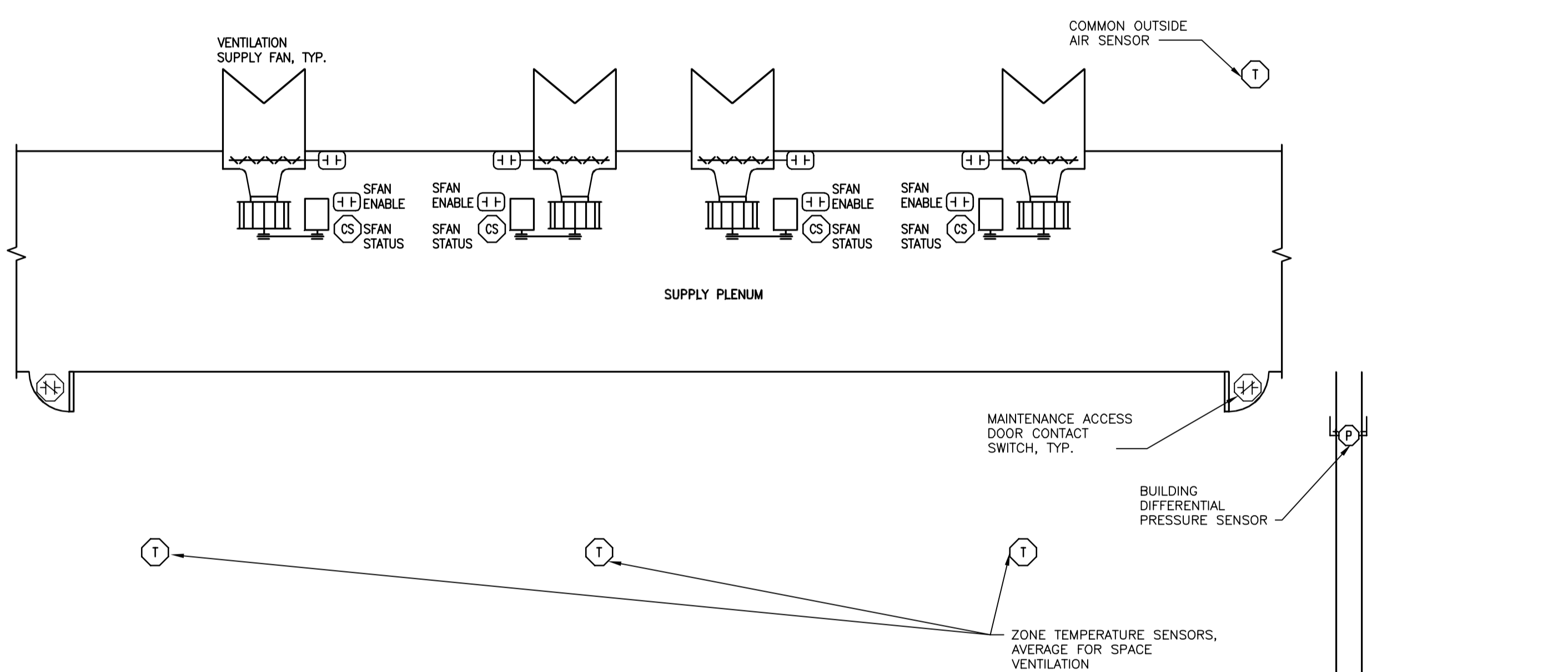
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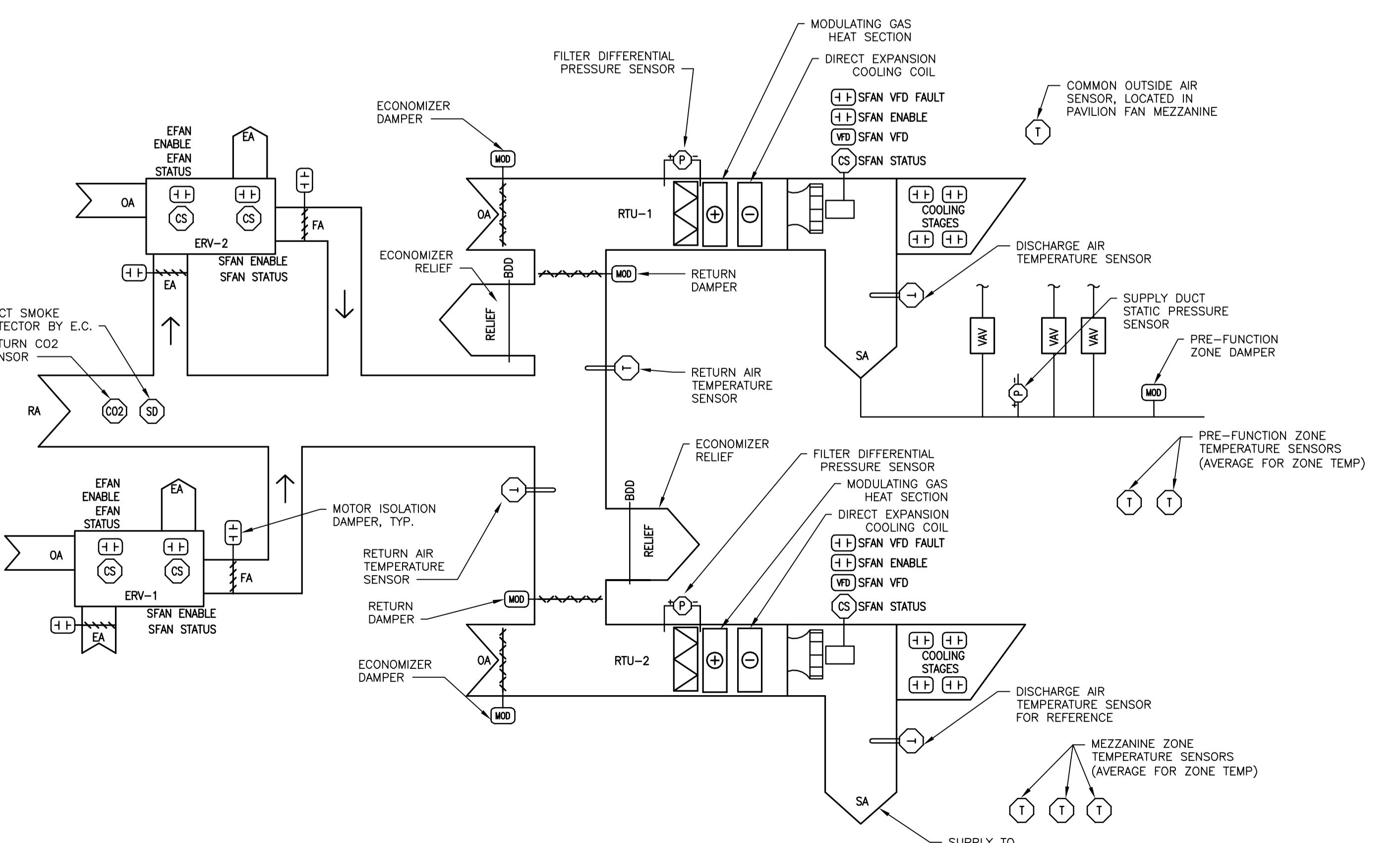




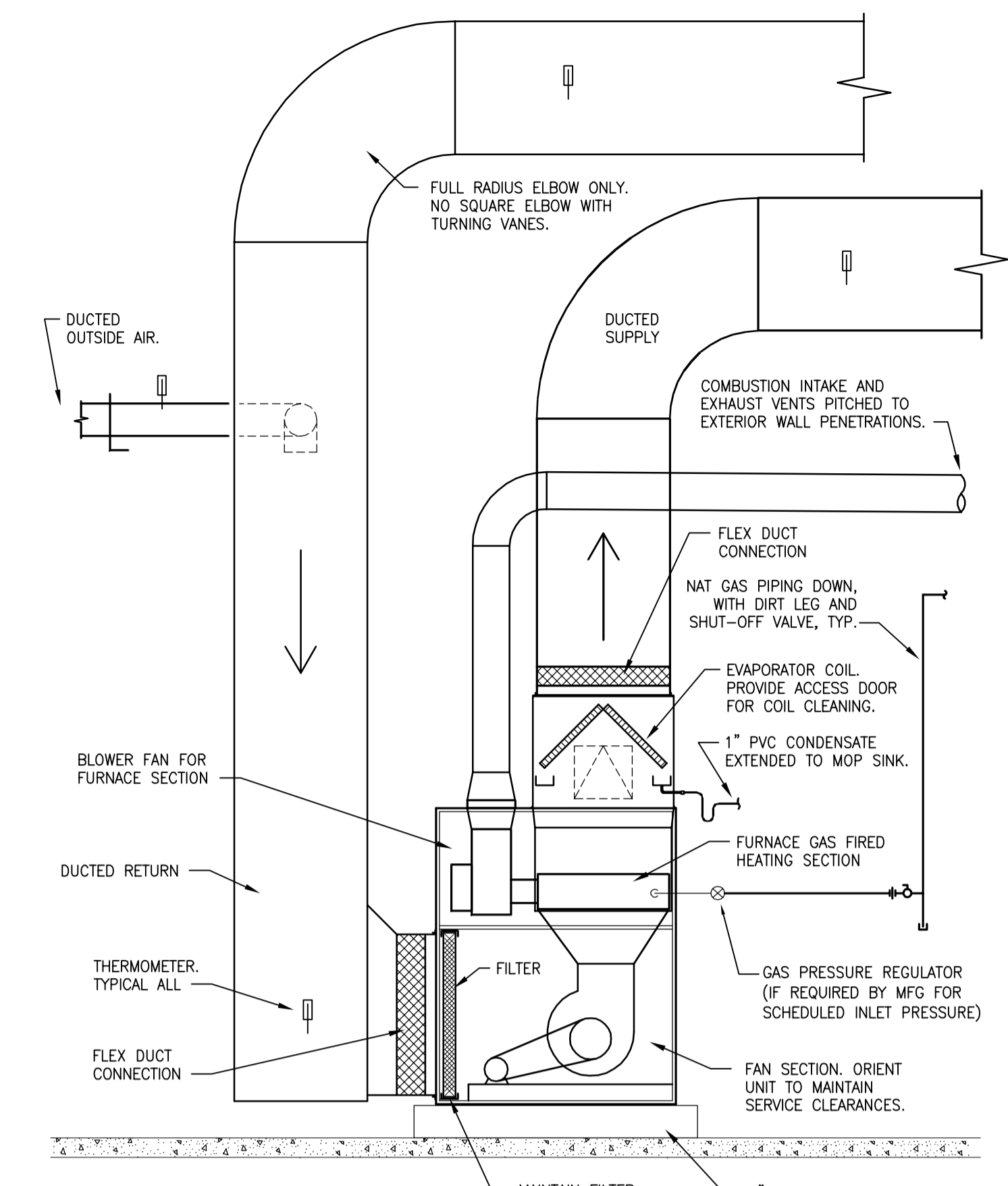
8 PAVILION #1 HEATING AND VENTILATION CONTROL SCHEMATIC  
SCALE:



9 PAVILION #2 VENTILATION CONTROL SCHEMATIC  
SCALE:

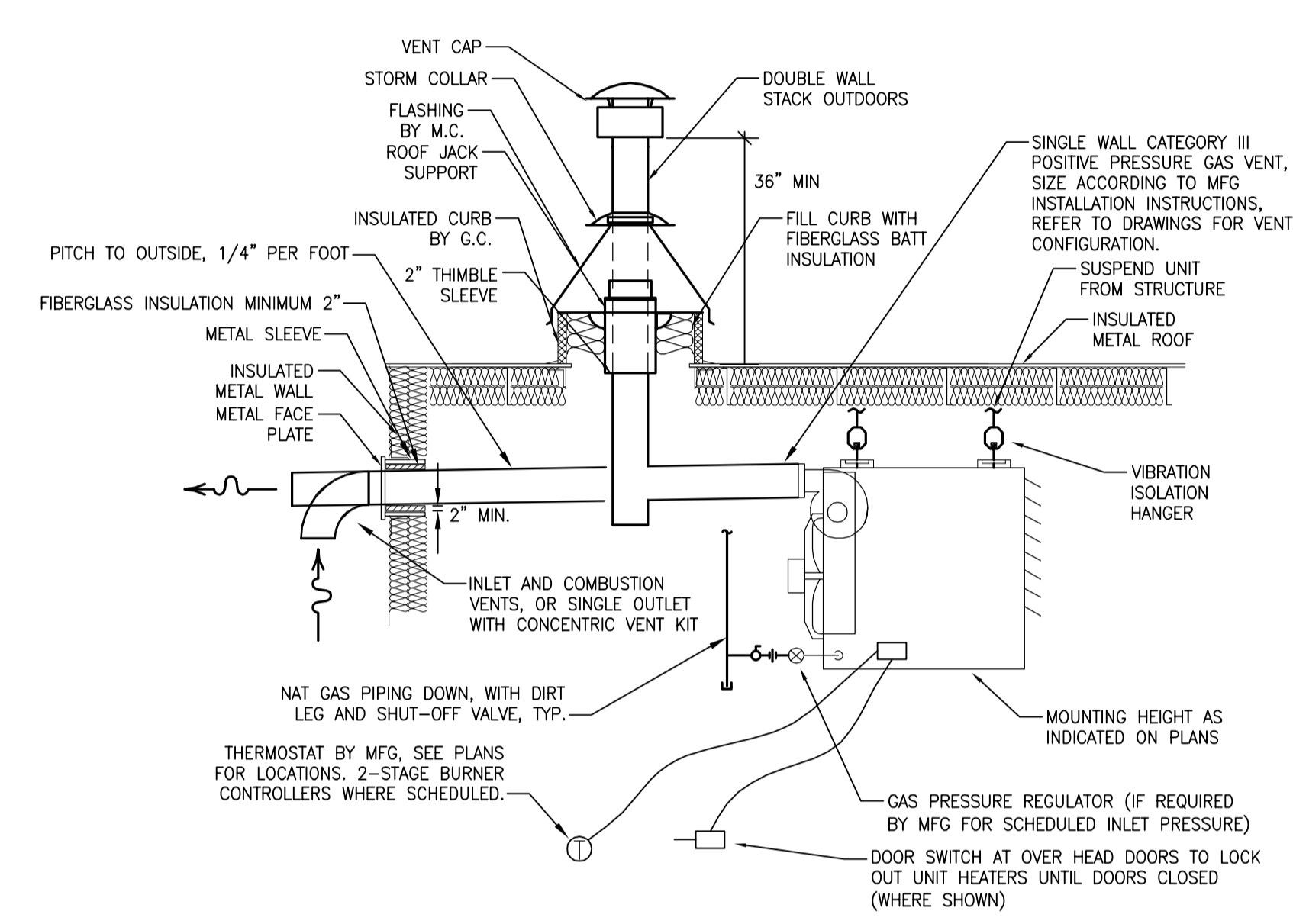


10 PRE-FUNCTION HVAC CONTROL SCHEMATIC  
SCALE:

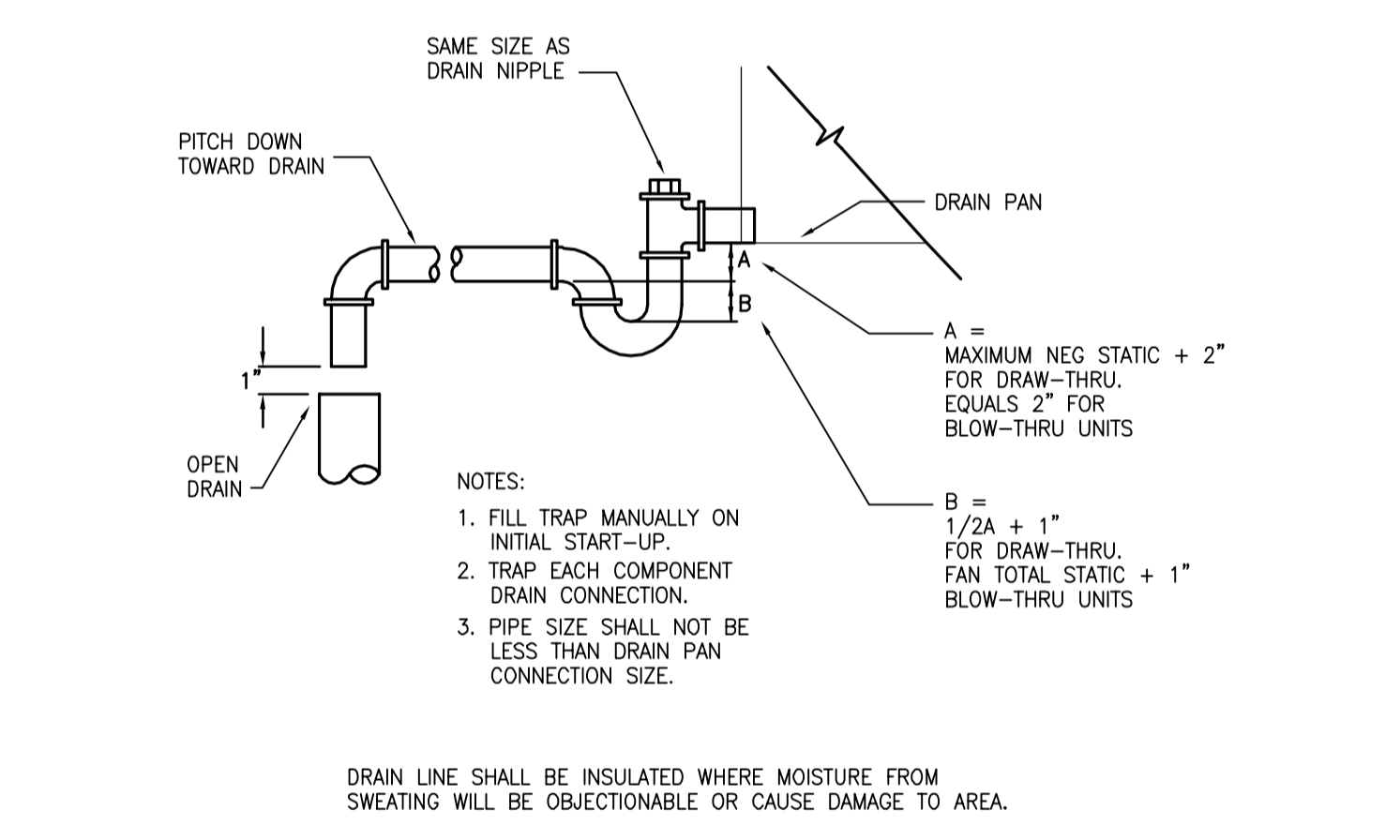


5 FURNACE DETAIL  
SCALE: N.T.S.

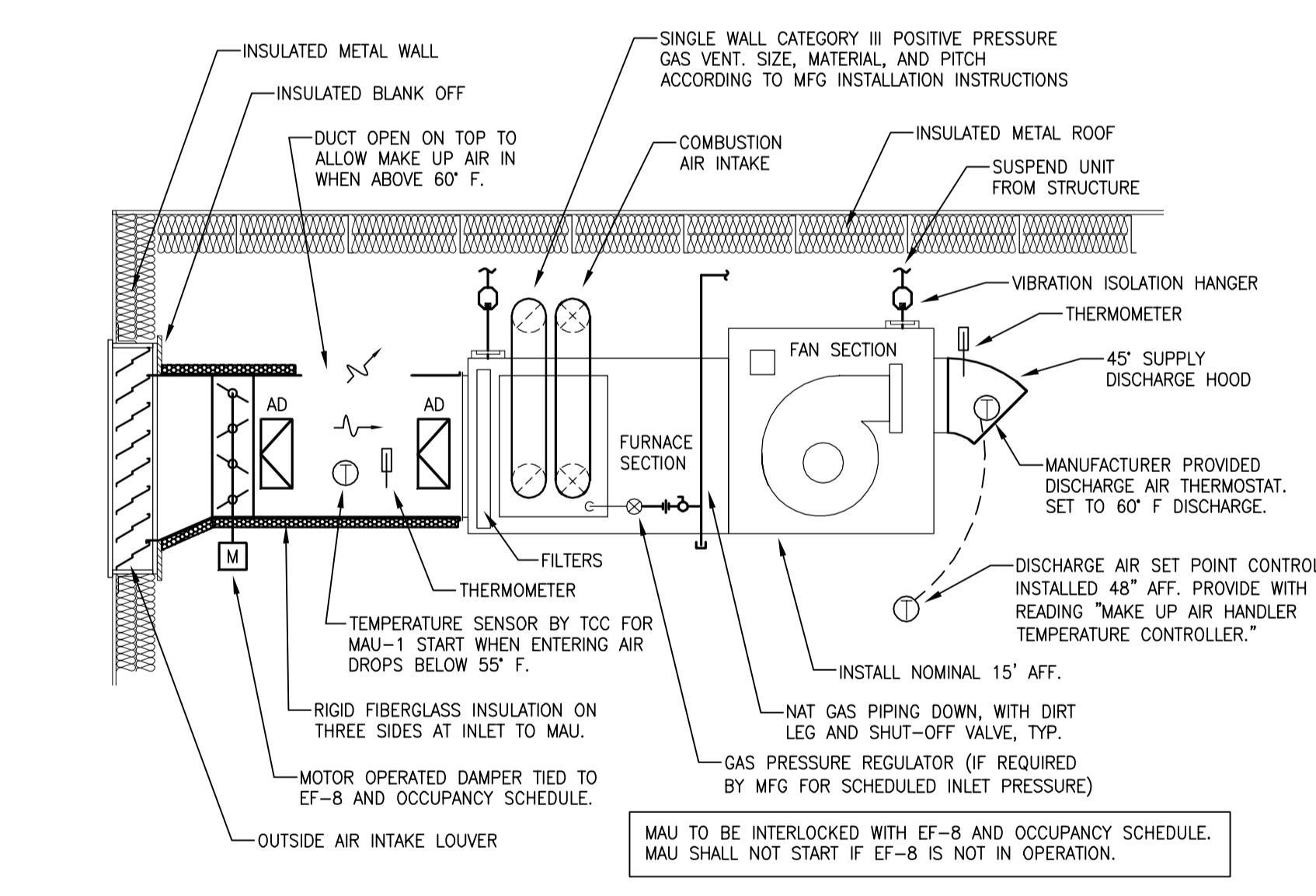
1 DUCT OBSTRUCTION DETAILS  
SCALE: N.T.S.



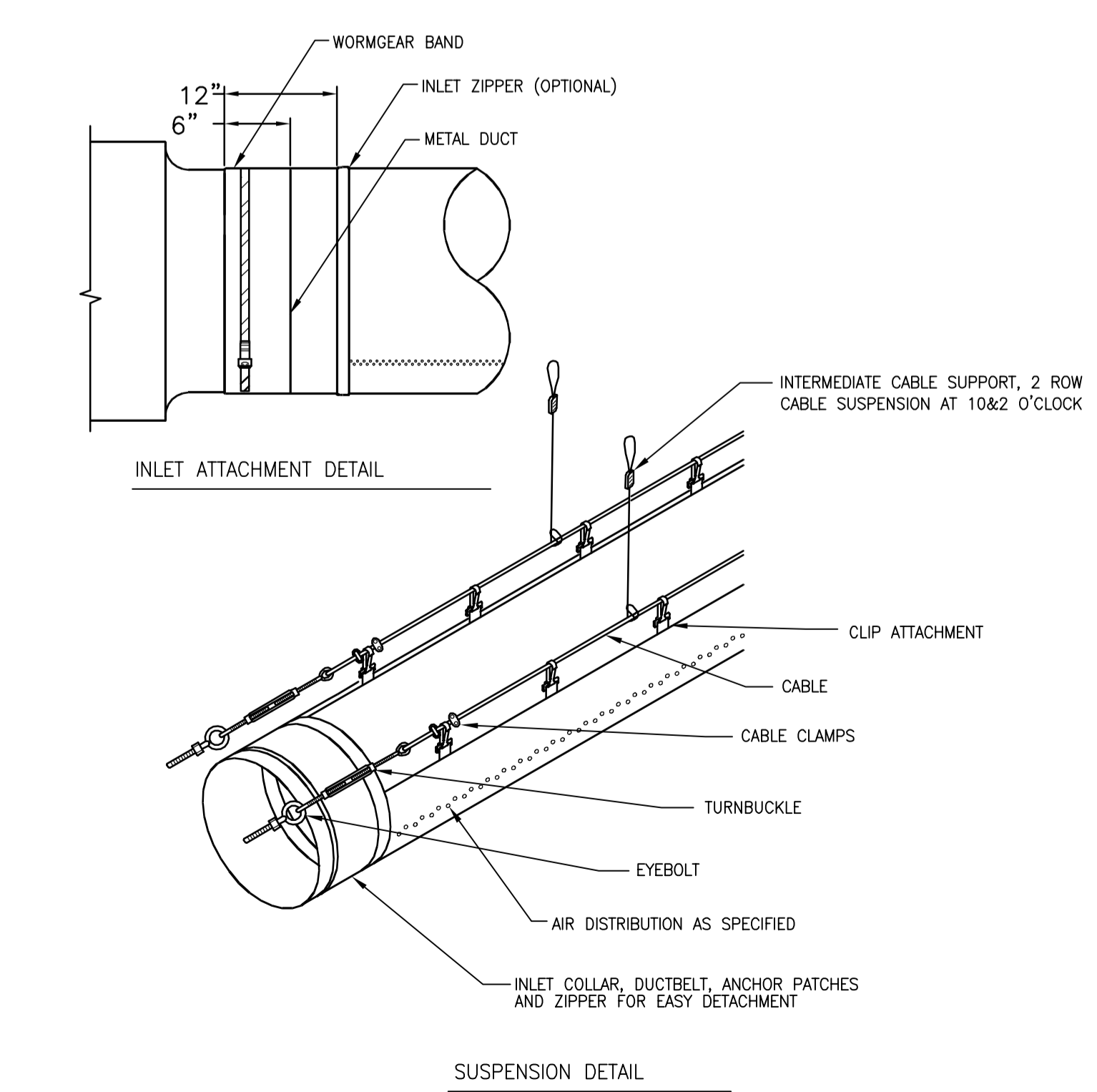
2 POWER VENTED GAS FIRED UNIT HEATER DETAIL  
SCALE: N.T.S.



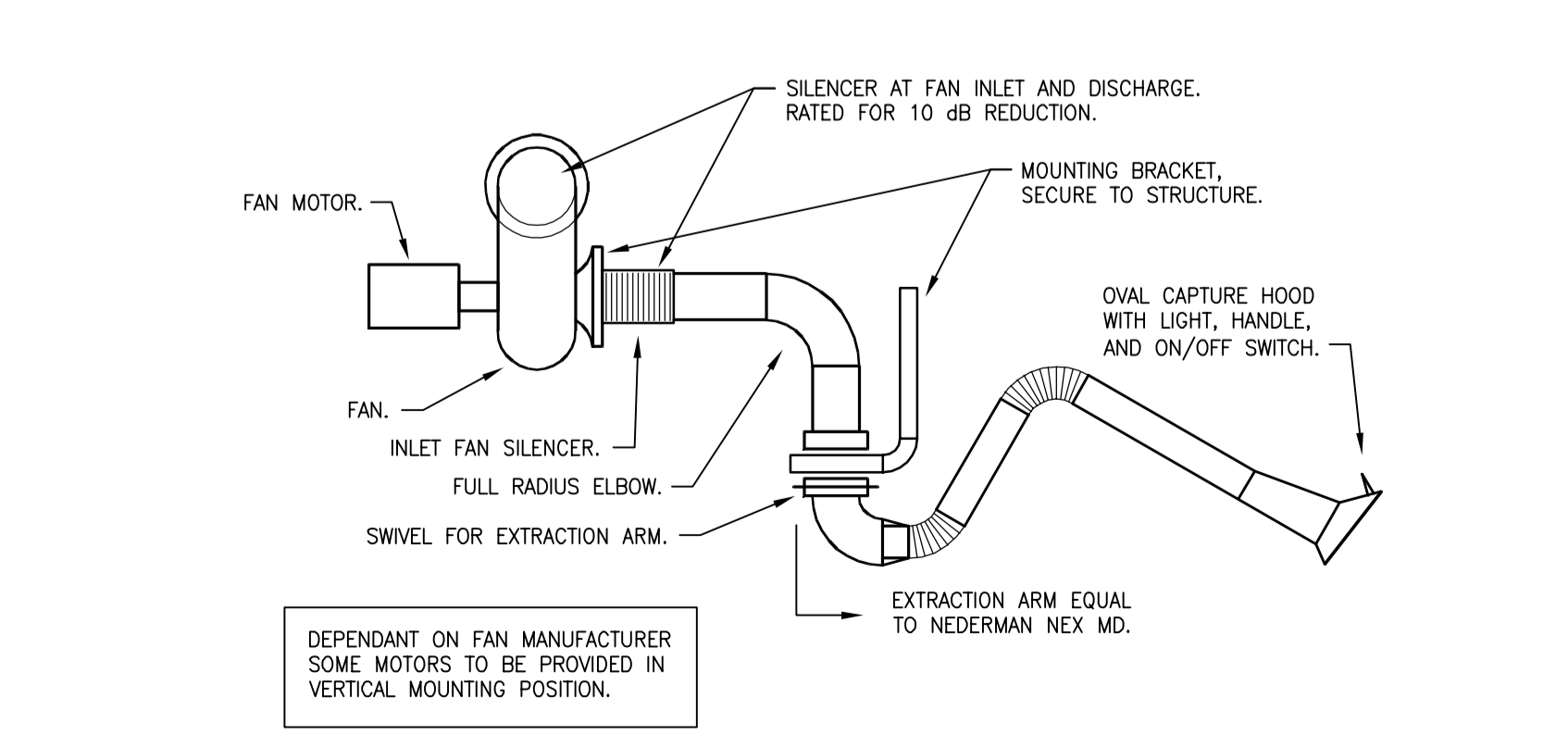
6 FURNACE CONDENSATE DRAIN TRAP  
SCALE: N.T.S.



3 MAINTENANCE BUILDING GAS FIRED MAKE UP AIR UNIT DETAIL  
SCALE: N.T.S.



7 FABRIC DIFFUSER DETAIL  
SCALE: N.T.S.



4 WELDING EXHAUST DETAIL  
SCALE: N.T.S.

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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

HVAC DETAILS

SHEET NO.  
M402

JUSTIN BALWIG, 2008-10-30 2:27 PM (K)\_201302013027\_02\_AEC-1E-HALUDRWINGS013027\_02-M402.DWG



FAN SCHEDULE																			
TAG #	LOCATION	SERVICE	FAN TYPE	WHEEL TYPE	MIN DIA	CFM	RPM	TOTAL S.P. (IN. WG)	BHP	FAN ARRANG.	DRIVE	DAMPER	INTERLOCK	MOTOR			CONTROLS	REMARKS	
														HP	VOLT	PH			
SF-1-16	BLDG 1 FAN MEZZANINE	PAVILION 1 VENTILATION	PLENUM	AF	48"	37,500	581	0.8	9.85	INLINE	BELT	MOD	BAS	10	460	3	A	1,7,10,11	
SF-17-54	BLDG 2 FAN MEZZANINE	PAVILION 2 VENTILATION	PLENUM	AF	48"	36,850	574	0.8	9.5	INLINE	BELT	MOD	BAS	10	460	3	A	1,7,10,11	
SF-55	129 ELEC ROOM	EQUIPMENT COOLING	PROP	PROP	12"	1,000	890	0.30	0.21	WALL	DIRECT	MOD	RELIEF	1/4	120	1	G	2,5,7,8	
SF-56	132 ELEC ROOM	EQUIPMENT COOLING	PROP	PROP	12"	1,000	890	0.30	0.21	WALL	DIRECT	MOD	RELIEF	1/4	120	1	G	2,5,7,8	
SF-57	149 ELEC ROOM	EQUIPMENT COOLING	PROP	PROP	12"	1,000	890	0.30	0.21	WALL	DIRECT	MOD	RELIEF	1/4	120	1	G	2,5,7,8	
SF-58	140 MILK PARLOR	140 MILK PARLOR	WALL SUPPLY	PROP	24"	3,400	1098	0.5	0.635	WALL	BELT	MOD		3/4	120	1	B	2,5,7,8	
SF-59	143 CONCESSION	KITCHEN HOOD	INLINE	CENT	18"	2,400	960	0.75	0.58	INLINE	BELT	MOD	HOOD	3/4	120	1	D	1,2,4,7	
CEF-1	109 ELEV EQUIP	ELEVATOR EQUIPMENT	CENTRIFUGAL	CENT	-	300	-	0.25	0.20	CABINET	DIRECT	BOD	-	1/4	120	1	G	6	
EF-1	PRE-FUNCTION ROOF	GREASE EXHAUST	CENTRIFUGAL	CENT	-	13.5	1350	1544	1.0	0.5	UPBLAST	DIRECT	-	HOOD	3/4	120	1	B	3,4,7,9
EF-2	BLDG 1 SHOWER	SHOWERS	INLINE CENTRIFUGAL	BI	12	1040	1450	0.6	0.28	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7	
EF-3	BLDG 1 RESTROOM	RESTROOMS	INLINE CENTRIFUGAL	BI	12	1200	2273	0.6	0.34	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7	
EF-4	143 CONCESSIONS	GREASE EXHAUST	TUBULAR CENTRIFUGAL	BI	12	1350	2160	1.0	0.47	INLINE	BELT	-	HOOD	3/4	120	1	D	1,2,7,9	
EF-5	BLDG 2 EAST RESTROOM	RESTROOMS	INLINE CENTRIFUGAL	BI	12	1200	2273	0.6	0.34	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7	
EF-6	BLDG 2 WEST RESTROOM	RESTROOMS	INLINE CENTRIFUGAL	BI	12	1200	2273	0.6	0.34	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7	
EF-7A	142 MECHANICAL ROOM	MECH ROOM VENTILATION	WALL EXHAUST	PROP	36	7,500	679	0.25	0.825	WALL	BELT	BOD	ROOM INLET MOD	1	208	1	G	2,5,7	
EF-7B	142 MECHANICAL ROOM	MECH ROOM VENTILATION	PROP	PROP	36	7,500	679	0.25	0.825	WALL	BELT	BOD	ROOM INLET MOD	1	208	1	G	2,5,7	
EF-8	153 WORK AREA	153 WORK AREA	CENTRIFUGAL	CENT	-	1250	977	0.5	0.21	INLINE	DIRECT	MOD	DAMPER	1/2	120	1	E	1,4	
EF-9	154 WELDING	WELDING SMOKE	CENTRIFUGAL	CENT	-	700	3450	6.00	-	-	DIRECT	MOD	DAMPER	2	208	3	C	1,7,10	
EF-10	159 MECH ROOM	RESTROOM AND MECH ROOM	CENTRIFUGAL	CENT	-	150	1288	0.25	-	INLINE	DIRECT	MOD	DAMPER	-	120	1	E	1,4,5,6	

- REMARKS:
- PROVIDE VIBRATION ISOLATION.
  - PROVIDE OSHA APPROVED BELT GUARD.
  - PROVIDE ROOF CURB.
  - PROVIDE WITH ELECTRICALLY COMMUTATED MOTORS AND FAN MOUNTED DIAL FOR BALANCING SPEED CONTROL.
  - MOTOR STARTER PROVIDED BY E.C.
  - DISCONNECT PROVIDED AND INSTALLED BY E.C.
  - PRE-WIRED DISCONNECT PROVIDED BY MANUFACTURER.
  - PROVIDE PACKAGED WALL FAN WITH INLET LOUVER, ISOLATION DAMPER, AND OUTLET SCREEN/MOTOR GUARD
  - PROVIDE FAN ASSEMBLY OIL FREE LISTED FOR GREASE EXHAUST UP TO 300', INCLUDE GREASE TRAPS, DRAINS AND ACCESS DOORS AND OTHER ACCESSORIES AS REQUIRED.
  - MOTOR STARTER PROVIDED BY FAN MANUFACTURER.
  - PROVIDE PLENUM FANS WITH ALUMINUM WHEELS AND EXTENDED GREASE LINES.

- CONTROLS:
- T.C.C. TO INTERLOCK WITH B.A.S.
  - MANUAL CONTROL WITH WALL SWITCH BY E.C.
  - MANUAL CONTROL WITH UNIT SWITCH, WIRED BY E.C.
  - INTERLOCK WITH KITCHEN HOOD CONTROLS BY OTHERS.
  - INTERLOCK WITH PROGRAMMABLE THERMOSTAT (OCCUPANCY)
  - INTERLOCK WITH LIGHTS BY E.C.
  - THERMOSTAT CONTROL (REVERSE ACTING)

DIFFUSER, REGISTER AND GRILLE SCHEDULE															
MARK	SERVICE	MOUNTING TYPE	FRAME	FASTENER	STYLE	PATTERN	MATERIAL	DAMPER	FINISH	COLOR	MAX. P.D. (HORIZ.)	MODEL	REMARKS		
PSD-1	SUPPLY	CEILING	T-GRID	LAY-IN	24" LONG X (4) 1-1/2" WIDE SLOT	ADJUSTABLE 2-WAY	STEEL	NO	BAKED ENAMEL	WHITE	.10	CARNES DARD	2,3		
PSD-2	SUPPLY	CEILING	T-GRID	LAY-IN	48" LONG X (4) 1-1/2" WIDE SLOT	ADJUSTABLE 2-WAY	STEEL	NO	BAKED ENAMEL	WHITE	.10	CARNES DARD	2,3		
CD-1	SUPPLY	CEILING	BEVELED	SCREW	LOUVERED VANES 9x9x6"	4-WAY	STEEL	NO	BAKED ENAMEL	WHITE	0.06	CARNES SSSI			
CD-2	SUPPLY	CEILING	BEVELED	SCREW	LOUVERED VANES 12x12x8"	4-WAY	STEEL	NO	BAKED ENAMEL	WHITE	0.06	CARNES SSSI			
CD-3	SUPPLY	CEILING	BEVELED	SCREW	LOUVERED VANES 15x15x10"	4-WAY	STEEL	NO	BAKED ENAMEL	WHITE	0.06	CARNES SSSI			
SR-1	SUPPLY	ROUND DUCT	CURVED FRAME	SCREW	SIZES INDICATED ON PLAN	DOUBLE DEFLECTION	ALUMINUM	YES	CLEAR ANODIZED	NATURAL	0.09	CARNES ROOMH	4		
SG-1	SUPPLY	DUCT	FLANGED	-	3/4" BLADE SPACING, GRILLE DIMENSIONS INDICATED ON PLAN	DOUBLE DEFLECTION	ALUMINUM	NO	CLEAR ANODIZE	NATURAL	0.10	CARNES RADMH			
SG-2	SUPPLY	WALL	FLANGED	SCREW	3/4" BLADE SPACING, GRILLE DIMENSIONS INDICATED ON PLAN	DOUBLE DEFLECTION	STEEL	NO	BAKED ENAMEL	WHITE	.10	CARNES RSDBH			
EG-1/TG-1/RG-1	EXH/TA/RA	CEILING / WALL	FLANGED	SURFACE	1/2"x1/2"x1/2" EGG CRATE		ALUMINUM	NO	BAKED ENAMEL	WHITE	0.05	CARNES RAPAF	2		
EG-2/TG-2/RG-2	EXH/TA/RA	CEILING	FLANGED	LAY-IN	1/2"x1/2"x1/2" EGG CRATE		ALUMINUM	NO	BAKED ENAMEL	WHITE	0.05	CARNES RAPAF	1,2		

- REMARKS:
- 24"x24" CEILING TERMINALS TO BE FLANGE FRAME FOR LAY-IN ON T-GRID CEILING FRAMES
  - BLACK INTERIOR COLOR OF PLENUM
  - PROVIDE CENTER TEES, NO INTERNAL INSULATION (MANUFACTURER PROVIDED EXTERNAL INSULATION OR FIELD WRAP EXTERIOR OF THE PLENUM). PROVIDE 48" UNITS WITH NOTCH AT MIDPOINT FOR 24x24 GRID.
  - PROVIDE WITH AIR SCOOP DAMPER OPTION.

EQUIPMENT SOUND POWER LEVELS										
UNIT	MEASURED LOCATION	DESIGN	OCTAVE BAND	DISCHARGE SOUND POWER - dB	REMARKS					
		63f	125f	250f	500f	1000f	2000f	4000f	8000f	
SF-1-54	OUTLET	94	98	91	87	86	86	76	69	1,2
SF-1-54	INLET	90	85	85	83	83	82	73	64	1,2
MUA-2A, 2B	OUTLET	94	97	90	85	82	81	75	64	1,2

- REMARKS:
- DISCHARGE SOUND POWER BASED ON MANUFACTURER'S PUBLISHED SOUND POWER
  - SOUND CRITERIA BASED ON PROVIDING SPACE NOISE CRITERIA OF NC-50, 55 dbA SOUND PRESSURE AT EXTERIOR WALKWAYS.

VAV UNIT W/ ELEC. HEAT SCHEDULE									
VAV #	SERVES	MAX. CFM	MIN. CFM	MIN. INLET SIZE	BOOSTER COIL			REMARKS	
					KW	V/PH/A	LAT (°F)		
1	103 OFFICE	375	80	6	0.8	120/1/6.7	75		
2	105 OFFICE	340	80	6	0.8	120/1/6.7	75		
3	100 VESTIBULE	250	0	6	-	-	-	1	
4	116 CONCESSIONS	900	270	10	3.2	208/1/15.2	75	2	
5	102 LOBBY	700	210	8	-	-	-	1	
6	115A DATA CLOSET	350	80	6	-	-	-	1	

- GENERAL NOTES FOR ZONE VAV UNITS
- MAXIMUM TOTAL HEATER & VALVE STATIC PRESSURE DROP = 0.25" WG
  - BASED ON TITUS MODEL DESV.
  - HEATING ELEMENTS SIZED BASED ON 55°F EAT.
- REMARKS:
- COOLING ONLY UNIT
  - 2 STAGE ELECTRIC HEATING ELEMENT

GAS FIRED UNIT HEATER SCHEDULE															
GUA #	LOCATION	TYPE (PROJECTION)	MODEL SIZE	FUEL/INLET PRESSURE (IN. W.C.)	AFUE (%)	BURNER OUTPUT (MBH)	VENTING CONFIGURATION	DISCHARGE LOUVER	CFM	THROW (FT)	MOTOR			REMARKS	
											HP	VOLTS	PH		
1	WASH BAY 151	PROP FAN HORIZONTAL	150	N.G. / 7"	81%	120	POWER VENT	YES	2100	40	1/6	115	1	1,2,3,4,6	
2	STORAGE 152	PROP FAN HORIZONTAL	30	N.G. / 7"	81%	10	POWER VENT	YES	500	25	1/15	115	1	1,2,3,6	
3	WORK AREA 153	PROP FAN HORIZONTAL	300	N.G. / 7"	81%	250	POWER VENT	YES	4500	40	1/2	115	1	1,2,3,4,6	
4	WELDING 154	PROP FAN HORIZONTAL	60	N.G. / 7"	81%	50	POWER VENT	YES	900	36	1/12	115	1	1,2,3,4,6	
5	WORK AREA 161	PROP FAN HORIZONTAL	60	N.G. / 7"	81%	50	POWER VENT	YES	900	36	1/12	115	1	1,2,3,6	
6	WORK AREA 161	PROP FAN HORIZONTAL	150	N.G. / 7"	81%	120	POWER VENT	YES	2100	40	1/6	115	1	1,2,3,4,6	
7	115 MECHANICAL ROOM	PROP (HORIZ.)	30	N.G. / 7"	81%	24	POWER VENT	YES	505	25	1/20	120	1	1,2,3,6	
8	140 MILK PARLOR	PROP (HORIZ.)	100	N.G. / 7"	81%	80	POWER VENT	YES	1490	42	1/12	120	1	1,2,3,6	
9	141 MILK HOUSE	PROP (HORIZ.)	30	N.G. / 7"	81%	24	POWER VENT	YES	505	25	1/20	120	1	5	
10	142 MECHANICAL ROOM	PROP (HORIZ.)	30	N.G. / 7"	81%	24	POWER VENT	YES	505	25	1/20	120	1	5	

- REMARKS:
- BASED ON MODINE MODEL HDS/BTS INDIRECT GAS FIRED UNIT HEATERS.
  - SOUND CRITERIA AHRI STANDARD 350-2000; SOUND POWER LEVEL IN dB SHALL NOT EXCEED 55 IN ANY OCTAVE BAND.
  - LOW VOLTAGE THERMOSTAT, BURNER CONTROLS AND DISCONNECT BY UNIT MANUFACTURER.
  - 2-STAGE BURNER, LOW (50%) & HIGH (100%) FIRE CAPABILITY. (THERMOSTAT WITH 2-5 DEGREE TEMPERATURE DIFFERENTIAL BETWEEN BURNER STAGE OPERATION.)
  - EXISTING UNIT TO BE RE-LOCATED.
  - PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT CONTROL.

POWER VENT GAS-FIRED RADIANT HEATER SCHEDULE															
GVR #	LOCATION	COMMON VACUUM EXHAUSTER PUMP				GAS FIRED BURNER UNITS						REMARKS			
		TOTAL SYSTEM INPUT (BTU/HR)	BURNERS PER PUMP	VENT SIZE	ELECTRICAL (V/PH/A)	GRI #	MOUNTING HEIGHT (AFT)	TOTAL INPUT (MBH)	MAXIMUM INLET GAS	ELECTRICAL (V/PH/A)	MOUNTING ANGLE				
1	120 BUILDING 1 PAVILION - NORTH	600,000	4	4"	120/1/11.6	1-1	15'-0"	150	14" W.C.	120/1/0.7	45°	1,2,3,4,5			
						1-2	15'-0"	150	14" W.C.	120/1/0.7	45°				
						1-3	15'-0"	150	14" W.C.	120/1/0.7	45°				
						1-4	15'-0"	150	14" W.C.	120/1/0.7	45°				
2	120 BUILDING 1 PAVILION - WEST	410,000	5	4"	120/1/9.6	2-1	15'-0"	90	14" W.C.	120/1/0.7	0°	1,2,4,5			
						2-2	15'-0"	90	14" W.C.	120/1/0.7	0°				
						2-3	15'-0"	90	14" W.C.	120/1/0.7	0°				
						2-4	15'-0"	90	14" W.C.	120/1/0.7	0°				
						2-5	15'-0"	75	14" W.C.	120/1/0.7	0°				
3	120 BUILDING 1 PAVILION - EAST	360,000	4	4"	120/1/9.6	3-1	15'-0"	90	14" W.C.	120/1/0.7	0°	1,2,4,5			
						3-2	15'-0"	90	14" W.C.	120/1/0.7	0°				
						3-3	15'-0"	90	14" W.C.	120/1/0.7	0°				
						3-4	15'-0"	90	14" W.C.	120/1/0.7	0°				
						4-1	15'-0"	150	14" W.C.	120/1/0.7	45°				
						4-2	15'-0"	150	14" W.C.	120/1/0.7	45°				
4	120 BUILDING 1 PAVILION - SOUTH	600,000	4	4"	120/1/11.6	4-3	15'-0"	150	14" W.C.	120/1/0.7	45°	1,2,3,4,5			
						4-4	15'-0"	150	14" W.C.	120/1/0.7	45°				

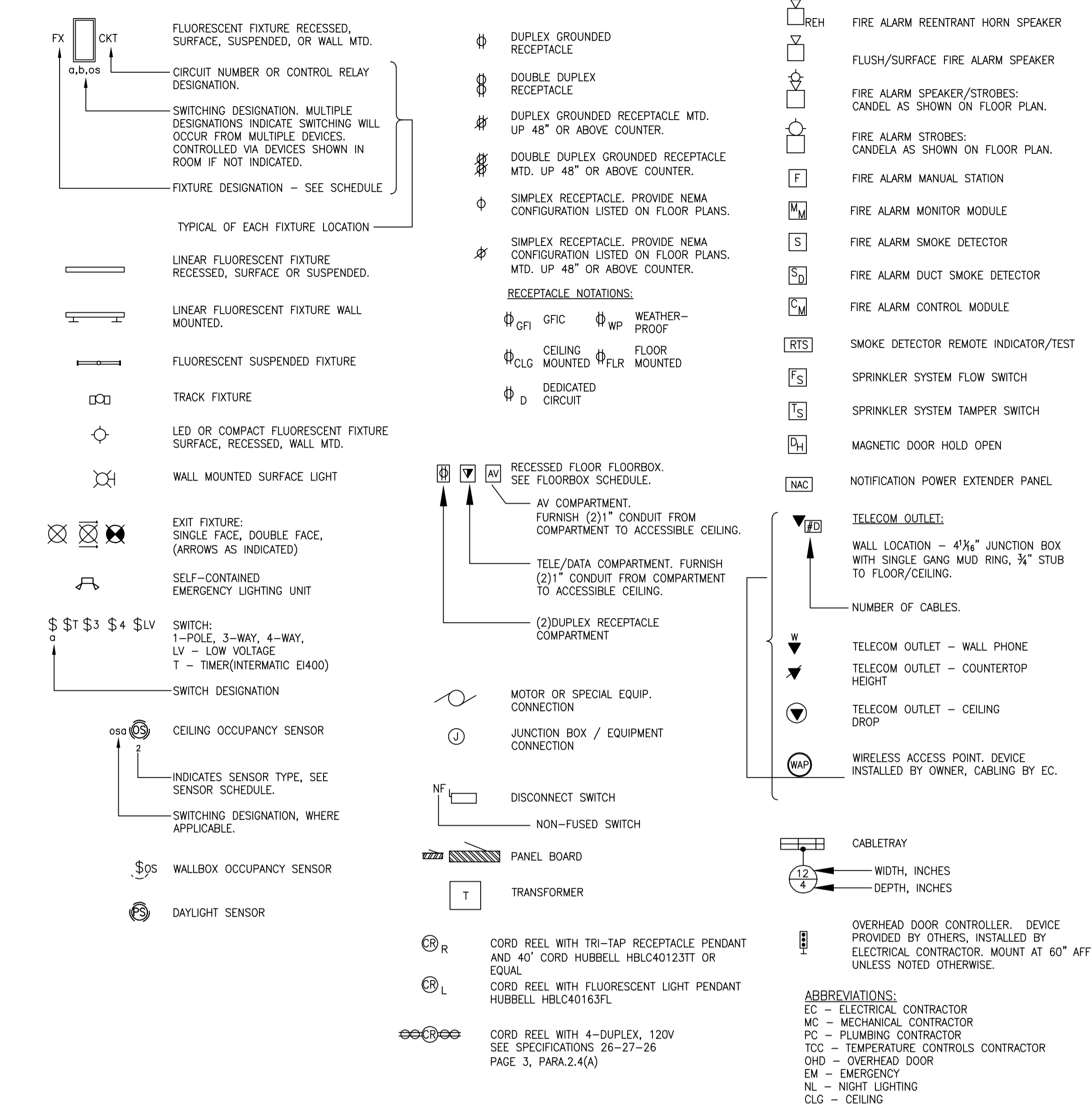
- REMARKS:
- BASED ON DETROIT RADIANT HL.V.
  - PROVIDE GAS PRESSURE REGULATORS (IF REQUIRED) TO ACCEPT 5.0 PSI BUILDING GAS PRESSURE.
  - ADJUST REFLECTOR 45° AWAY FROM OUTSIDE WALL.
  - PROVIDE COMPLETE SYSTEM, ENGINEERED ACCORDING TO MANUFACTURERS GUIDELINES FOR MAXIMUM LENGTH OF RADIANT TUBING INCLUDING COMMON PIPE.
  - REFER TO PLANS FOR LENGTH AND CONFIGURATION OF RADIANT SYSTEM.

ROOF TOP AIR HANDLING UNIT SCHEDULE																																		
RTU #	MODEL	SERVICE	SUPPLY FAN CHARACTERISTICS							COOLING COIL							HEATING (NATURAL GAS)			UNIT / ELECTRICAL			100% ECONOMIZER	DISCHARGE DIRECTION	REMARKS									
			TOTAL CFM	MINIMUM CFM	MIN. DIA. CFM	WHEEL TYPE	RPM	TOTAL S.P. (IN. WG)	ESP (IN. WG)	FAN BHP	HP	VOLT	PH	EAT(°F)	LAT(°F)	TOTAL MBH	SENS MBH	MIN. EER	HEATING CFM	OUTPUT MBH	EAT (°F)	LAT (°F)				MIN. % EFF.	VOLTS	PHASE	MCA	MOCP				
1		FIRST FLOOR PRE-FUNCTION	8,500	2,500	0	FC	1572	3.25	1.5	6.64	7.5	460	3	80.8	67.5	54.3	54.3	314	219	10.7	4,250	190	44	85	80	460	3	70	90	2"	MERV 8	YES	VERTICAL	1,2,3,4,5,6
2		MEZZANINE PRE-FUNCTION	10,000	3,000	0	FC	1423	3.76	1.5	8.78	15	460	3	8																				

LIGHT FIXTURE SCHEDULE									
1. MANUFACTURERS SHOWN ARE BASIS OF DESIGN. ALTERNATE PRODUCTS SIMILAR IN APPEARANCE AND PERFORMANCE ARE PERMITTED WITH PRIOR APPROVAL FROM A/E.									
EM - EMERGENCY; CONNECT TO EMERGENCY CIRCUIT INDICATED.									
2. SEE SPECIFICATION SECTION 26 51 00 FOR APPROVED BALLAST. COORDINATE WITH MANUFACTURER AS REQUIRED TO MEET SPECIFICATION.									
MOUNTING (MTG)		LAMP TYPE		LENS/LOUVER		BALLAST TYPE		BALLAST FACTOR	
RE - RECESSED	FL - FLUORESCENT	A - ACRYLIC	EM - EMERGENCY BATTERY	LBF - LOW, BF < 0.85		DM - DIMMING BALLAST	NBF - NORMAL, BF 0.85-1.0		
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE	DM - DIMMING BALLAST	NBF - NORMAL, BF 0.85-1.0		SDM - STEP DIMMING BALLAST	HBF - HIGH, BF > 1.01		
CL - CEILING SURFACE	IN - INCANDESCENT	C - CLEAR ALUM	SDM - STEP DIMMING BALLAST			ADIM - DIGITAL ADDRESSABLE BALLAST			
W - WALL	LED - LIGHT EMITTING DIODE	L - LOW IRIDESCENT SEMI-SPECULAR ALUMINUM	IS - INSTANT START			RS - RAPID START			
UC - UNDER CABINET	HPS - HIGH PRESSURE SODIUM	N - NONE	PS - PROGRAMMED START			SCWA - SUPER CONSTANT WATTAGE			
CV - COVE	HALC - HALOGEN	S - SPECULAR CLEAR	RS - RAPID START			eHD - ELECTRONIC HID			
PL - POLE	MH - METAL HALIDE	O - OTHER (SEE DESCRIPTION)	LED - LED ELECTRONIC DRIVER						
S - SURFACE	PSMH - PULSE START METAL HALIDE								
U - UNIVERSAL	CMH - CERAMIC METAL HALIDE								
O - OTHER (SEE DESCRIPTION)	O - OTHER (SEE DESCRIPTION)								
FIXTURE NUMBER	DESCRIPTION	MTG	LAMPS	VOLTAGE	LENS/LOUVER	APPROVED MANUFACTURERS (LIST IS NOT EXCLUSIVE, MANUFACTURERS LISTED ARE BASIS FOR DESIGN.)	BALLAST	NOTES	
D1	6" ROUND DOWNLIGHT, MEDIUM BEAM	RE	LED 1000LMN 4100K	MVOLT		GOHAM EVO 41 10 6AR MD LD OR APPROVED EQUAL	PS NBF		
D2	6" ROUND DOWNLIGHT, WIDE BEAM	RE	LED 1000LMN 4100K	MVOLT		GOHAM EVO 41 10 6AR WD LD OR APPROVED EQUAL	PS NBF		
D3	6" ROUND DOWNLIGHT, NARROW BEAM	RE	LED 1000LMN 4100K	MVOLT		GOHAM EVO 41 14 6AR ND LD OR APPROVED EQUAL	PS NBF		
EX1	SINGLE FACE EXIT FIXTURE	W	LED			LITHONIA - LVSXWRMCW		MOUNT EXIT FIXTURES ON WALL ABOVE DOOR FRAME AND BELOW LOUVERS IN PASSAGE	
EX2	EXIT FIXTURE	W	LED			LITHONIA - EDG W 1 R			
EX3	DOUBLE FACE EXIT FIXTURE	W	LED			LITHONIA - LVSXWRMCW			
F1	EXISTING 1X4 FIXTURE	S	FL (2)F32W8			EXISTING		REMOVED FROM EXISTING BUILDINGS AND REUSED AS INDICATED. SEE SPEC 26-00-00 PAGE 1, PARA 1.4	
F2	4-LAMP HIGH PRESSURE HOSE-DOWN IP65, IP66 AND IP67 RATED.	S	FL (4)F54TSHO 4100K	MVOLT		LITHONIA - FHP 454L SD WITH (2) 2 LAMP BALLASTS	PS NBF		
F3	FLUORESCENT DIRECT SUSPENDED FIXTURE	S	FL (2)F54TSHO 4100K	MVOLT		AXIS BEAM 4 - BBD S NO 4 NL4 TSHO 2 0 OR APPROVED EQUAL	PS NBF	BOTTOM OF FIXTURE MOUNTED FLUSH WITH BOTTOM OF ACOUSTIC PANELS	
F4	2X4 FLUORESCENT LENSED TROFFER	RE	FL (2)32W8 4100K	277V		LITHONIA 2SP8 G 3 32 A12125 277	PS NBF	INSTALL LENS PRISM UP FOR EASE OF CLEANING	
F5	2X4 FLUORESCENT DIRECT/INDIRECT TROFFER	RE	FL (2)F32W8 4100K	MVOLT		LEDALITE SHINE SERIES 3324-01-SMS-7232-S-1 OR APPROVED EQUAL	PS NBF		
F6	1X4 FLUORESCENT LENSED FIXTURE	RE	FL (1)F32W8 4100K	MVOLT		LITHONIA GTS 1 32 FW A12 MVOLT OR APPROVED EQUAL	PS NBF		
F7	LINEAR FLUORESCENT WRAPAROUND	S	FL (2) F32W8 4100K	277V	A	LITHONIA LB METALUX WN DAYBRITE	PS 1.15		
F8	LINEAR FLUORESCENT STRIP WITH WIREGUARD	SP/S	FL (2) F32W8 4100K	277V	A	LITHONIA C METALUX DAYBRITE	IS .88	CHAIN HANG AT 12" AFF UNLESS OTHERWISE NOTED.	
F9	LINEAR FLUORESCENT HIGH BAY, WIDE DISTRIBUTION	SP	FL (6) F54TSHO 4100K	277V	A	LITHONIA IBZ METALUX HBL DAYBRITE	PS 1.15	CHAIN/CABLE HANG AT 18" AFF UNLESS OTHERWISE NOTED. WHERE MULTI-LEVEL SWITCHING IS SHOWN, SWITCH OUTER (2) LAMPS SEPARATELY FROM INNER LAMPS. WHERE "NL" IS SHOWN OUTER (2) LAMPS SHALL BE UNSWITCHED AND INNER (4) LAMPS SWITCHED.	
F10	VAPORITE INDUSTRIAL	SP/S	FL (2) F54TSHO 4100K	277V	A	LITHONIA VRI METALUX V12 DAYBRITE	PS 1.01	CHAIN HANG AT 15" AFF UNLESS OTHERWISE NOTED.	
F11	OUTDOOR LED WALLPACK, FULL CUTOFF WITH INTEGRAL PHOTOCCELL.	WL	LED 880 LUMEN OUTPUT 4100K	277V	A	DAYBRITE WRN LUMARK XT0UR1A LITHONIA	LED -		
F12	1X4 (2) LAMP FLUORESCENT ROUGH SERVICE FIXTURE OR STARTING ELECTRONIC BALLAST	S	FL (2)32W 18, 4100K	120V		LITHONIA - VDS 2 32 MVOLT	PS NBF		
F13	LED STRIPLIGHT.	W	LED 2100 LUMEN 4100K	277V	A	LITHONIA MNSL MV M6 OR APPROVED EQUAL	LED 1.01	MOUNTED IN WOOD SCRIM AS SHOWN ON ARCHITECTURAL PLANS, ELEVATIONS AND SECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL FIXTURE COUNT AND FOR MOUNTING DETAILS AND REQUIREMENTS	
F14	2' WALL MOUNTED WRAPAROUND	W	FL (1)17W8 4100K	277V		LITHONIA - WVC 1 17 277	PS NBF		
F15	LENSED LED LIGHT CHANNEL, IP66 RATED, FROSTED DIFFUSER	W	LED 60 LUM/FT 2700K	277V		TRAXON TLDM OR APPROVED EQUAL	LED -	PROVIDE ALL FIXTURE LENGTHS, CONNECTORS, DRIVERS AND MOUNTING ACCESSORIES TO PROVIDE CONTINUOUS AROUND (BOTTOM AND SIDES) OF ALL WOOD ELEMENTS DENOTED "WD-2" ON ARCHITECTURAL DRAWINGS. LAYOUT SHOWN ON E DRAWINGS IS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS. CONTRACTOR SHALL SUBMIT DIMENSIONED SHOP DRAWINGS SHOWING ELEVATIONS AND SECTIONS OF INSTALLED FIXTURES IN EACH INSTANCE OF WD-2.	
P1	16" DIAMETER INDIRECT PENDANT		(48) 14W T5	277V		VISA CP5022	FL 0.7-0.8BF		
P2	MINI CYLINDER SUSPENDED DOWNLIGHT - ALUMINUM HOUSING, ANCHOR CABLE MOUNTED, NATURAL ALUMINUM FINISH, CAP WITH 1" RECESSED LENS.	SP	LED 250 LUMEN 24" BEAM 3000K	277V		B-K RM LED OR APPROVED EQUAL	LED -	SUSPEND SO FIXTURE IS AT 12" AFF. PROVIDE ALL REQUIRED ACCESSORIES AND TRANSFORMERS FOR A COMPLETE SYSTEM.	
P2B	SAME AS P2 WITH 18" BEAM		250 LUMEN 18" BEAM 3000K	277V		B-K RM LED OR APPROVED EQUAL			
P2C	SAME AS P2 WITH 36" BEAM		250 LUMEN 36" BEAM 3000K	277V		B-K RM LED OR APPROVED EQUAL			
T1	TWO HEAD, CANOPY MOUNTED, AIMABLE TRACK LUMINAIRE NATURAL ALUMINUM FINISH.		1600 LUMEN/HEAD 50" BEAM 3000K	277V		INTENSE MBS OR APPROVED EQUAL			
T1B	SAME AS T1 WITH 24" BEAM SPREAD		1600 LUMEN/HEAD 24" BEAM 3000K	277V		INTENSE MBS OR APPROVED EQUAL			
T1C	SAME AS T1 WITH ONE HEAD AND 16" BEAM SPREAD		1600 LUMEN 16" BEAM 3000K	277V		INTENSE MBS OR APPROVED EQUAL			

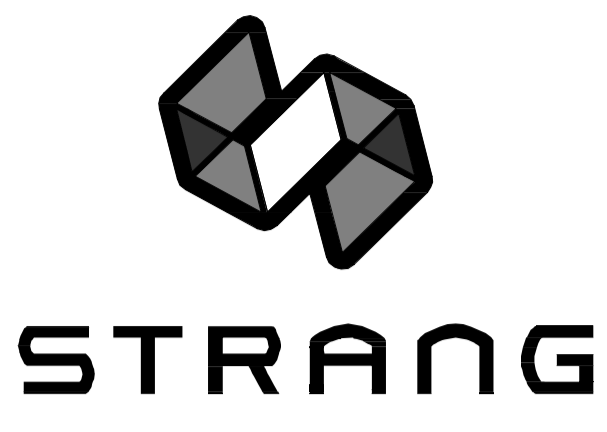
- UL Listed for 40 degree C Ambient
- Suitable for Wet Location but more importantly IP65, IP66 and IP67 rated.
- Certified to meet NSF Splash Zone 2
- NEMA 4x, 1200 PSI hose down.
- One-Place 5VA rated Fiberglass housing with continuous closed cell gasket motor
- Tool Less ballast and wiring access.
- Injection Moulded, Impact Resistant clear acrylic diffuser with frosted ends and side lined prism. (helps control Brightness/Glare)
- The diffuser must be securely tethered to the fixture for ease of maintenance.
- There must be 12 Stainless Steel Diffuser Latches.
- The reflectors are segmented optics with 95% reflectivity.
- 1750 Starting Temperature is -20 F.
- Lamp sockets are rotary locking for ease of maintenance and minimizing lamps loosening from any building vibration.

### ELECTRICAL SYMBOL LEGEND



OCCUPANCY SENSOR SCHEDULE			
SENSOR TAG	DESCRIPTION	APPROVED MANUFACTURERS (LIST IS NOT EXCLUSIVE, MANUFACTURERS LISTED ARE BASIS FOR DESIGN.)	NOTES
NONE	CEILING MOUNTED DUAL TECHNOLOGY. 360° COVERAGE FURNISH WITH REQUIRED POWER PACK(S)	SENSOR SWITCH CM-PDT-9-R ALTERNATES MUST BE SIMILAR IN PERFORMANCE & APPEARANCE	ALL SENSORS ARE THIS TYPE UNLESS TAGGED OTHERWISE. ADD EXTRA CONTACTS FOR HVAC EXHAUST FAN CONTROLS
TYPE 1	WALL MOUNTED DUAL TECHNOLOGY. FURNISH WITH REQUIRED POWER PACK(S)	SENSOR SWITCH WSD PDT 2P NLD WH ALTERNATES MUST BE SIMILAR IN PERFORMANCE & APPEARANCE	

GENERAL NOTES:  
1. SEE SHEET E401 FOR ADDITIONAL OCCUPANCY SENSOR DETAILS.



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
7/ 608 276 9200  
F/ 608 276 9204

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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

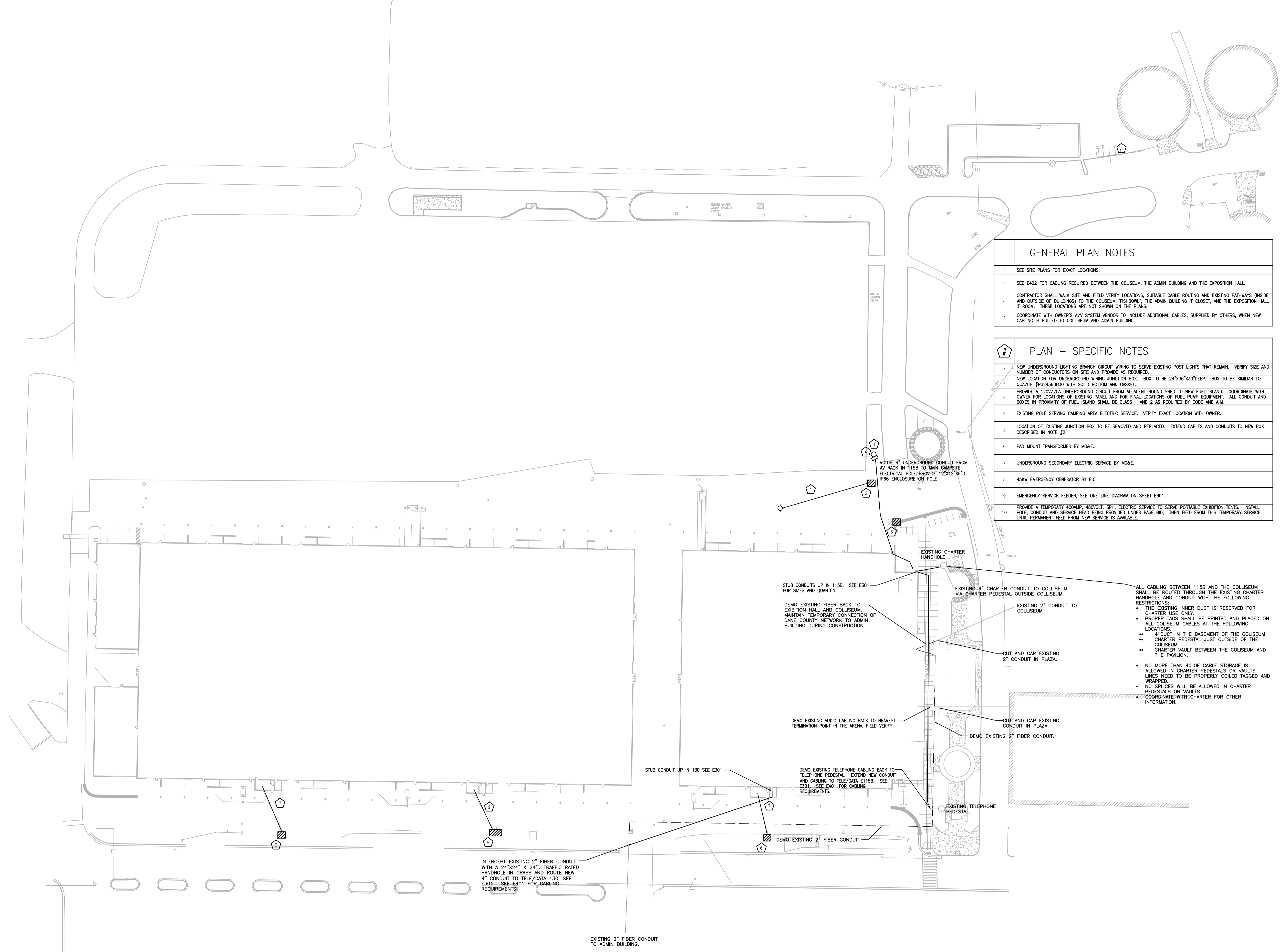
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
ELECTRICAL  
SYMBOLS/ABBREV.  
FIXTURE SCHEDULE

SHEET NO.  
E001

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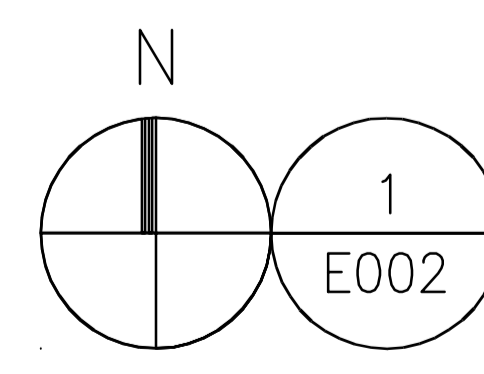


GENERAL PLAN NOTES	
1	SEE SITE PLANS FOR EXACT LOCATIONS.
2	SEE E402 FOR CABLING REQUIRED BETWEEN THE COLOSSEUM, THE ADMIN BUILDING AND THE EXPOSITION HALL.
3	CONTRACTOR SHALL WALK SITE AND FIELD VERIFY LOCATIONS, SUITABLE CABLE ROUTING AND EXISTING PATHWAYS (INSIDE AND OUTSIDE OF BUILDINGS) TO THE COLOSSEUM (FISHBONE), THE ADMIN BUILDING (T CLOSET), AND THE EXPOSITION HALL (T ROOM). THESE LOCATIONS ARE NOT SHOWN ON THE PLANS.
4	COORDINATE WITH OWNER'S A/V SYSTEM VENDOR TO INCLUDE ADDITIONAL CABLES, SUPPLIED BY OTHERS, WHEN NEW CABLING IS PULLED TO COLLOSSEUM AND ADMIN BUILDING.

#	PLAN - SPECIFIC NOTES
1	NEW UNDERGROUND LIGHTING BRANCH CIRCUIT WIRING TO SERVE EXISTING POST LIGHTS THAT REMAIN. VERIFY SIZE AND NUMBER OF CONDUCTORS ON SITE AND PROVIDE AS REQUIRED.
2	NEW LOCATION FOR UNDERGROUND WIRING JUNCTION BOX. BOX TO BE 24"x36"x30" DEEP. BOX TO BE SIMILAR TO QUAZITE #PG2436G30 WITH SOLID BOTTOM AND GASKET.
3	PROVIDE A 120V/20A UNDERGROUND CIRCUIT FROM ADJACENT ROUND SHED TO NEW FUEL ISLAND. COORDINATE WITH OWNER FOR LOCATIONS OF EXISTING PANEL AND FOR FINAL LOCATIONS OF FUEL PUMP EQUIPMENT. ALL CONDUIT AND BOXES IN PROXIMITY OF FUEL ISLAND SHALL BE CLASS 1 AND 2 AS REQUIRED BY CODE AND AHJ.
4	EXISTING POLE SERVING CAMPING AREA ELECTRIC SERVICE. VERIFY EXACT LOCATION WITH OWNER.
5	LOCATION OF EXISTING JUNCTION BOX TO BE REMOVED AND REPLACED. EXTEND CABLES AND CONDUITS TO NEW BOX DESCRIBED IN NOTE #2.
6	PAD MOUNT TRANSFORMER BY M&E.
7	UNDERGROUND SECONDARY ELECTRIC SERVICE BY M&E.
8	45KW EMERGENCY GENERATOR BY E.C.
9	EMERGENCY SERVICE FEEDER. SEE ONE LINE DIAGRAM ON SHEET E601.
10	PROVIDE A TEMPORARY 400AMP, 480VOLT, 3PH, ELECTRIC SERVICE TO SERVE PORTABLE EXHIBITION TENTS. INSTALL POLE, CONDUIT AND SERVICE HEAD BEING PROVIDED UNDER BASE BID, THEN FEED FROM THIS TEMPORARY SERVICE UNTIL PERMANENT FEED FROM NEW SERVICE IS AVAILABLE.

ALL CABLING BETWEEN 115B AND THE COLOSSEUM SHALL BE ROUTED THROUGH THE EXISTING CHARTER HANDHOLE AND CONDUIT WITH THE FOLLOWING RESTRICTIONS:

- THE EXISTING INNER DUCT IS RESERVED FOR CHARTER USE ONLY.
- PROPER TAGS SHALL BE PRINTED AND PLACED ON ALL COLOSSEUM CABLES AT THE FOLLOWING LOCATIONS:
  - \*\* 4" DUCT IN THE BASEMENT OF THE COLOSSEUM
  - \*\* CHARTER PEDESTAL JUST OUTSIDE OF THE COLOSSEUM
  - \*\* CHARTER VAULT BETWEEN THE COLOSSEUM AND THE PAVILION.
- NO MORE THAN 40' OF CABLE STORAGE IS ALLOWED IN CHARTER PEDESTALS OR VAULTS. LINES NEED TO BE PROPERLY COILED TAGGED AND WRAPPED.
- NO SPLICES WILL BE ALLOWED IN CHARTER PEDESTALS OR VAULTS
- COORDINATE WITH CHARTER FOR OTHER INFORMATION.



# ELECTRICAL OVERALL SITE PLAN

SCALE: 1" = 50'-0"

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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
ELECTRICAL  
OVERALL  
SITE PLAN

SHEET NO.  
E002

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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN CONCESSIONS RM 116 SHALL BE GFI TYPE.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E801 FOR TRANSFORMER SIZE.
2	RECEPTACLE COLOR SHOULD COORDINATE WITH COLUMN "GREY".
3	PROVIDE TWIST-LOCK RECEPTACLE CEILING MOUNTED.
4	ELEVATOR POWER MODULE, SEE ONE-LINE DIAGRAM.
5	NOT USED.
6	PROVIDE (3) 4" PVC RACEWAYS TO NEW PULL BOX THAT REPLACES EXISTING PULL BOX BEING RELOCATED BECAUSE OF CANOPY SUPPORT BEAM.
7	PROVIDE A 30AMP 3PH TWIST-LOCK RECEPTACLE.

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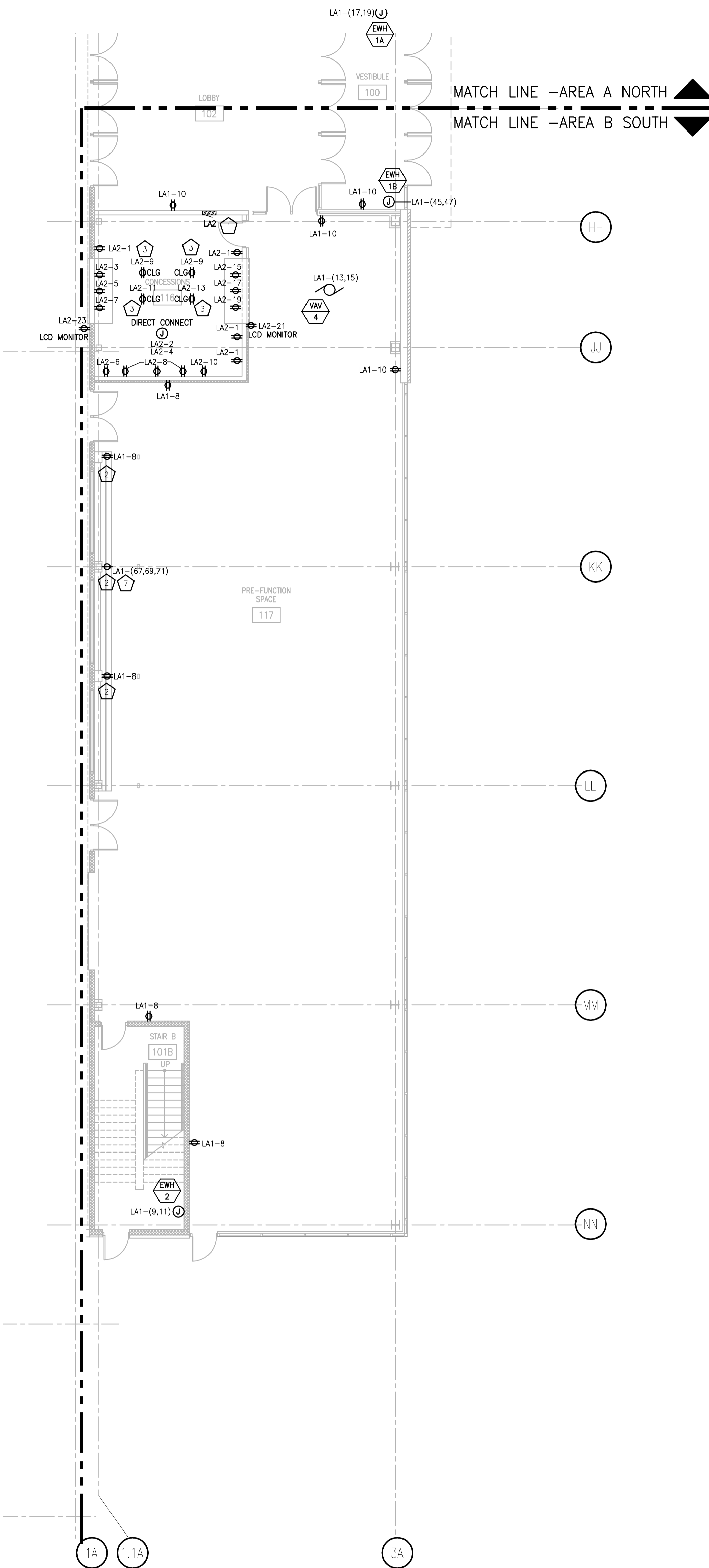
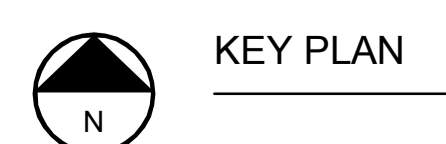
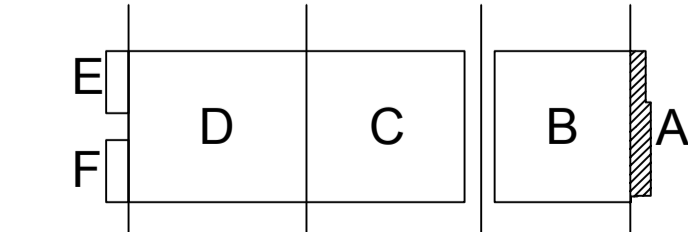
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BID # 313072

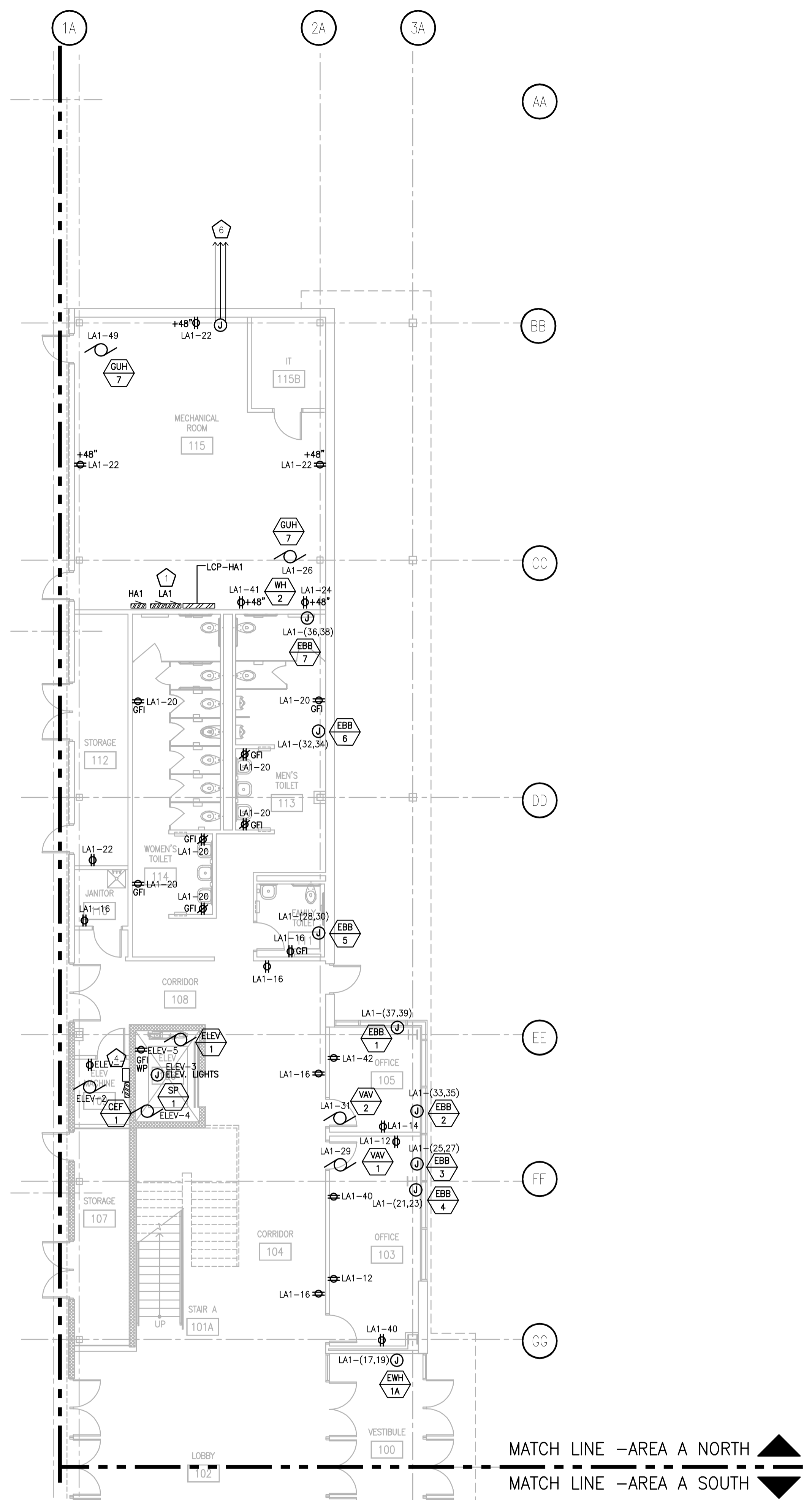
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
POWER PLAN  
AREA A BUILDING 1**

SHEET NO.  
**EP201A**

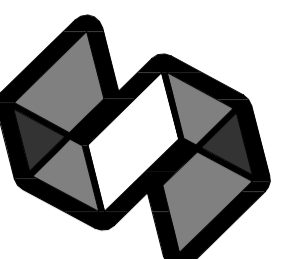


**FIRST FLOOR POWER PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR POWER PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"

JUSTIN BALWIG, 2008-5-30 2:27 PM K:\2013027\02-EP201A\1919 ALLIANT ENERGY CENTER - ESES\2013027\_02-AC-1E-HALUDAVINUS\2013027\_02-EP201A.DWG



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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN THE PAVILION BUILDING SHALL BE GFI AND WATER PROOF.
2	SEE SHEET E401 DETAIL #11 FOR CORD DROP DETAIL.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.
2	PROVIDE A 120V, 30AMP, 1PH CONNECTION FOR MECHANICAL LOW-VOLTAGE DAMPER CONTROLS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

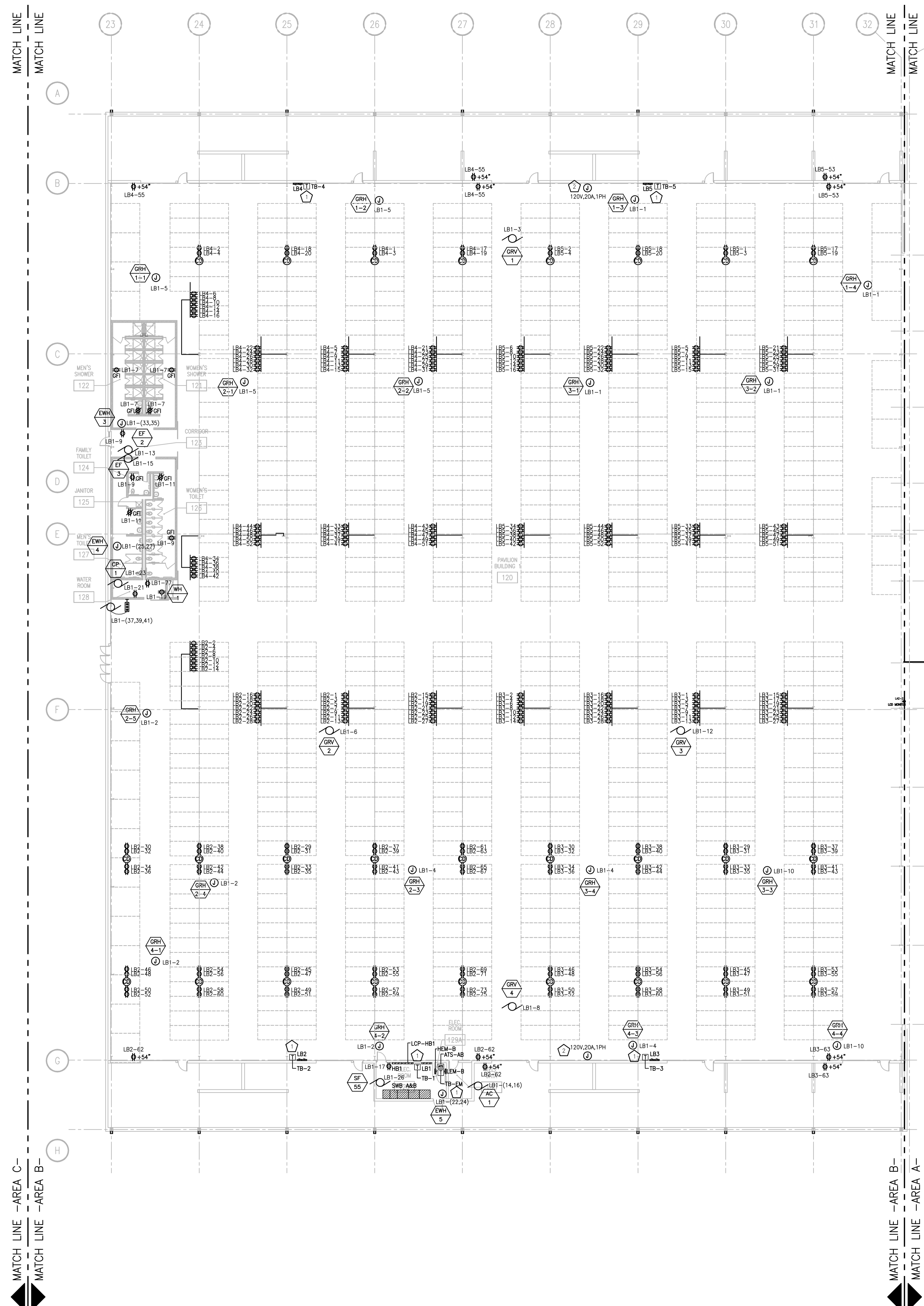
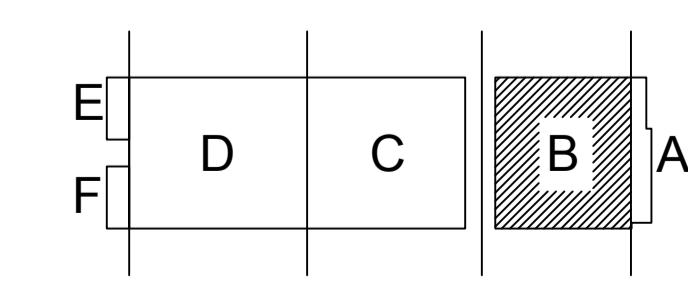
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
FIRST FLOOR  
POWER PLAN  
AREA B - BUILDING 1

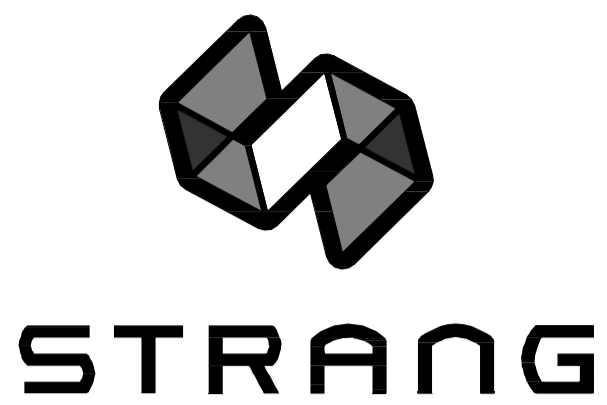
SHEET NO.  
EP201B



FIRST FLOOR POWER PLAN - AREA B  
SCALE: 1/16" = 1'-0"

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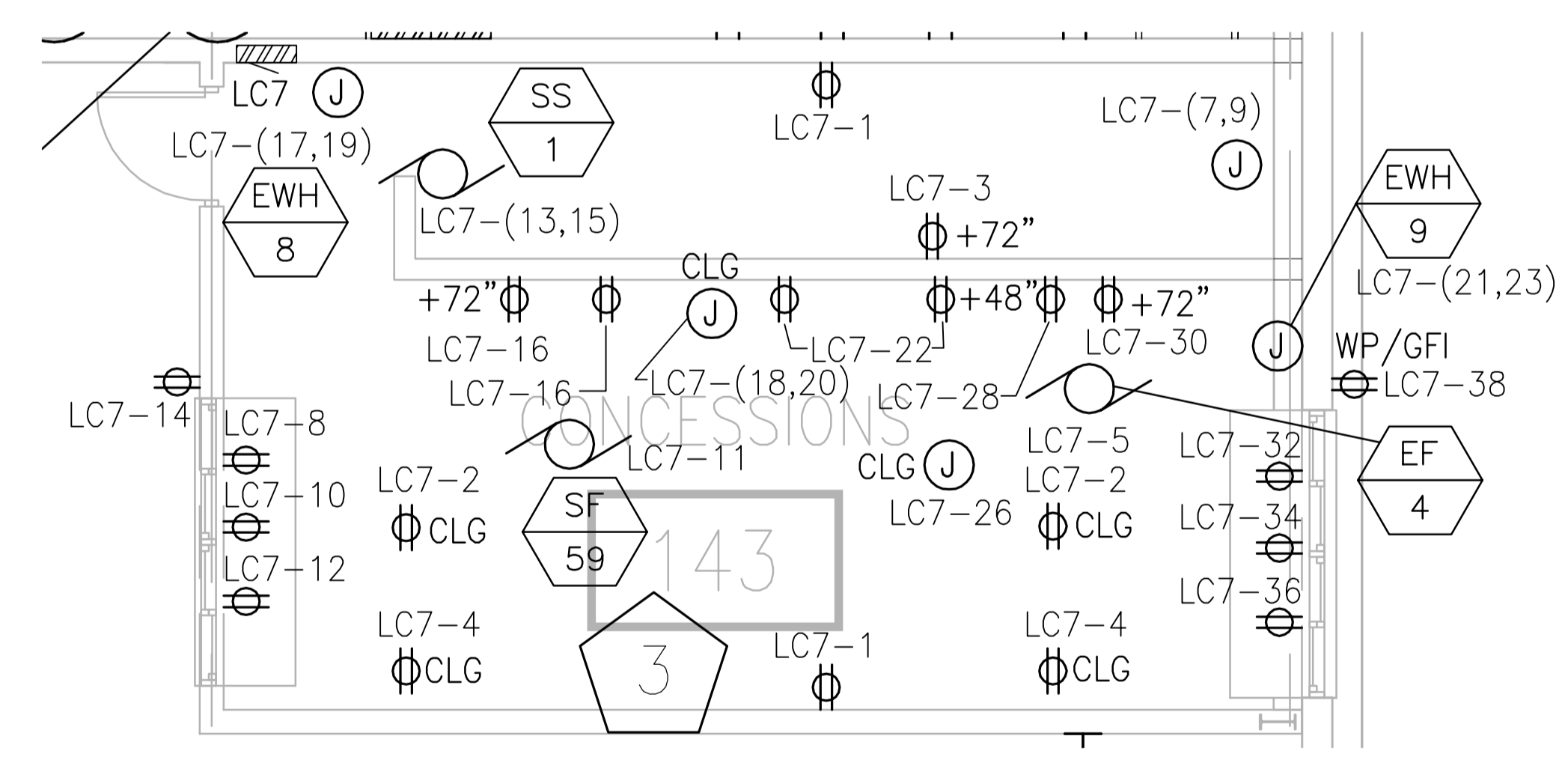


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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN PAVILION BUILDINGS SHALL BE GFI AND WATERPROOF.
2	ALL RECEPTACLES IN CONCESSIONS RM 143 TO BE GFI TYPE.
3	SEE SHEET E401 DETAIL #11 FOR CORO DROP DETAIL.
4	ALL EXTERIOR RECEPTACLES SHALL BE WP AND GFI.

#	PLAN - SPECIFIC NOTES
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.
2	PROVIDE A NEMA 12, 4 WIRE WITH BOTH NEUTRAL AND GROUND RECEPTACLE.
3	SEE "X" SCALE DRAWING ON THIS SHEET.
4	PROVIDE DISCONNECTS FOR HARDWIRED EQUIPMENT IN MECHANICAL ROOM 142 AND MILKING HOUSE 141.
5	COMPLETE INSTALLATION OF AN EQUIPOTENTIAL PLANE (EPP) SYSTEM MUST BE PROVIDED AS REQUIRED BY NEC ARTICLE 547.
6	EPP SYSTEM MUST BE INSTALLED COMPLETELY WITH ALL CONDUCTIVE OBJECTS ON OR NEAR THE EPP BONDED TO THE WIRE MESH INSTALLED IN THE SLAB. THIS INCLUDES BUT IS NOT LIMITED TO: STANCHIONS, STALL PARTITIONS, METAL POSTS OR COLUMNS, WATER LINES, METALLIC WATERERS AND FEEDERS, STAINLESS STEEL MILK PIPELINES, GROUNDED METAL BUILDING FRAME.
7	WELDED STEEL MESH INSTALLED IN MILKING PARLOR FLOOR SLAB AND REINFORCING RODS INSTALLED IN THE FOUR VOLTAGE RAMP SHALL BE PROVIDED BY G.C. BUT ALL GROUND/BOND WIRES WILL BE PROVIDED AND INSTALLED BY E.C.
8	WELDED STEEL MESH SHALL BE 6"x6" NOT SMALLER THAN NO.10 GAUGE AND REINFORCING RODS SHALL BE MIN. #3 GAUGE.
9	BONDING CONDUCTORS SHALL BE NOT SMALLER THAN NO.8 AWG COPPER.
10	THE EPP SHALL BE BONDED TO THE FACILITY SERVICE GROUNDING SYSTEM AT THE ELECTRIC SERVICE LOCATION WITH A MIN. AWG 2 COPPER GROUND CONDUCTOR INSTALLED IN PVC RACEWAY.
11	ALL BOND WIRES SHALL BE INSTALLED IN PVC RACEWAY WHERE CONDUCTOR EXTENDS INTO CONCRETE SLABS. THE BOND BETWEEN THE EPP AND THE BUILDING GROUND SYSTEM MUST BE EXPOSED (NOT BURIED IN CONCRETE OR EARTH) SO IT CAN BE INSPECTED.
12	THE EXPOSED BOND SHALL CONSIST OF BARE COPPER CONDUCTORS BONDED TO THE MESH AND LEFT PROTRUDING FROM THE CONCRETE AND THEN CONNECTED TO THE BUILDING GROUND SYSTEM TO PRODUCE A VISIBLE BOND. OTHER APPROVED METHODS WILL BE CONSIDERED.
13	INSTALL VOLTAGE RAMP (TRANSITION AREA) WHERE LIVESTOCK ENTER AND EXIT THE EPP. G.C. SHALL PROVIDE #6, 10" REINFORCING RODS DRIVEN ON A 45° SLOPE INTO GROUND ON A 12" CENTER ALONG THE WIDTH OF THE TRANSITION AREA SO THAT A MINIMUM 48" SPACE OUTSIDE THE EPP AREA IS CREATED SO THAT A GRADUAL CHANGE IN VOLTAGE POTENTIAL IS ACHIEVED. GROUND RODS ARE THEN BONDED TO THE MESH BY WELDING. SEE DETAIL 9/E401.
14	BOND EPP TO STAINLESS STEEL MILKING SYSTEM/PIPING USING #8 AWG COPPER CONDUCTOR TO A STAINLESS STEEL HOSE CLAMP WITH A COPPER LUG.
15	SEE STRUCTURE DRAWING S201C FOR ADDITIONAL INFORMATION REGARDING EPP MESH AND REINFORCING RODS.
16	DETAILS ON DRAWING ARE TYPICAL SHOWING GENERAL INTENT AND ARE NOT INTENDED TO BE FIELD WIRING DIAGRAMS.



CONCESSIONS RM 143  
SCALE: 1/4" = 1'-0"

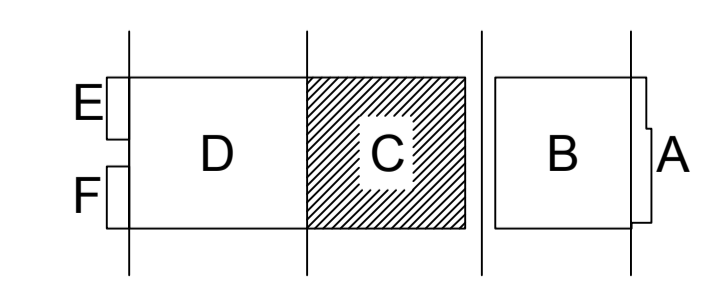
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PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

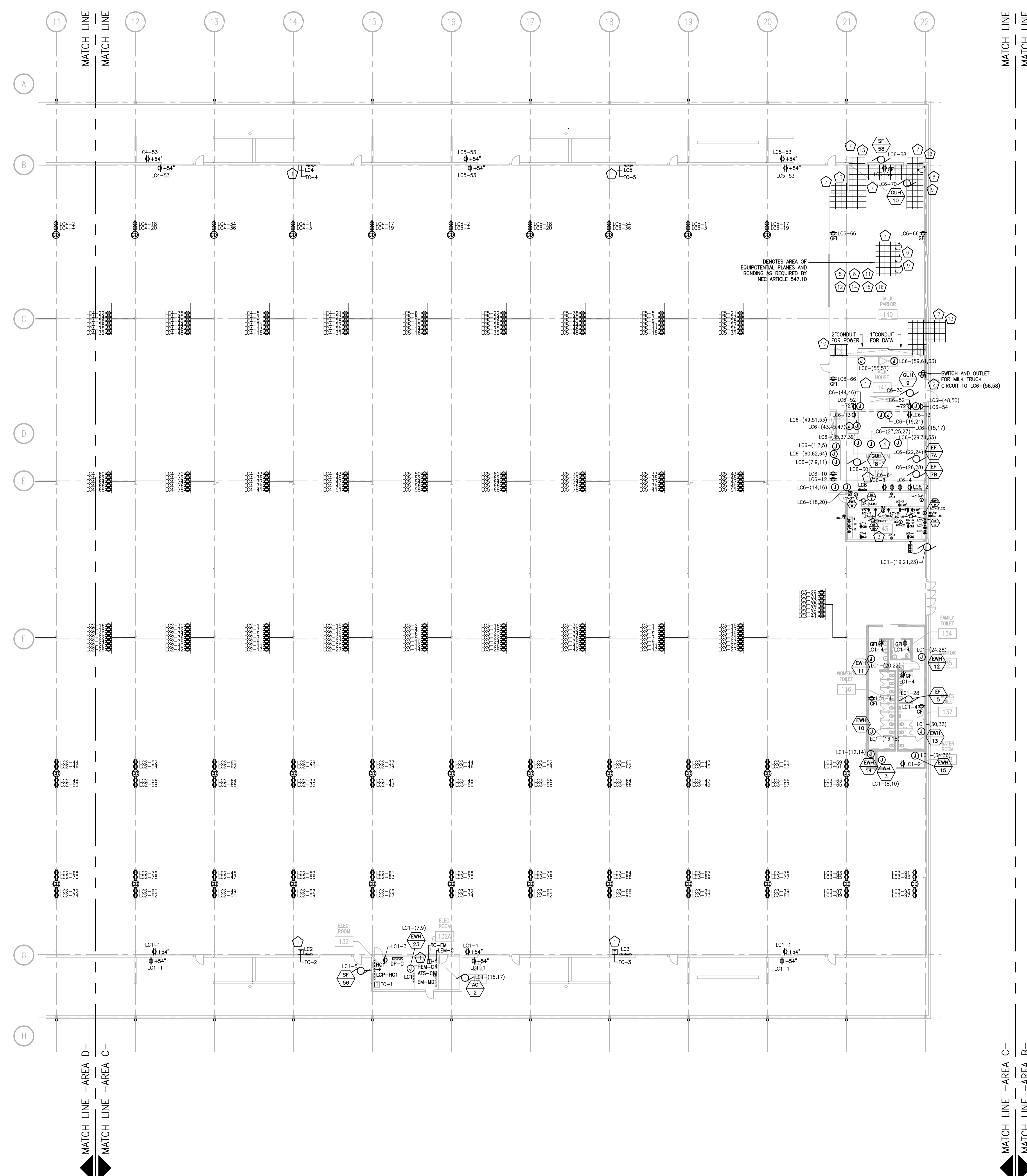
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
FIRST FLOOR  
POWER PLAN  
AREA C - BUILDING 2

SHEET NO.  
EP201C

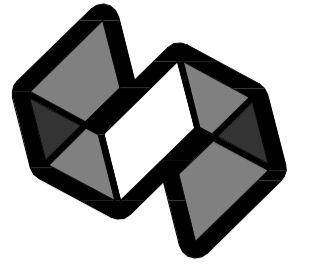


KEY PLAN



FIRST FLOOR POWER PLAN - AREA C  
SCALE: 1/16" = 1'-0"

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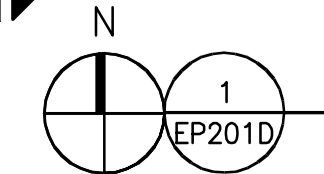
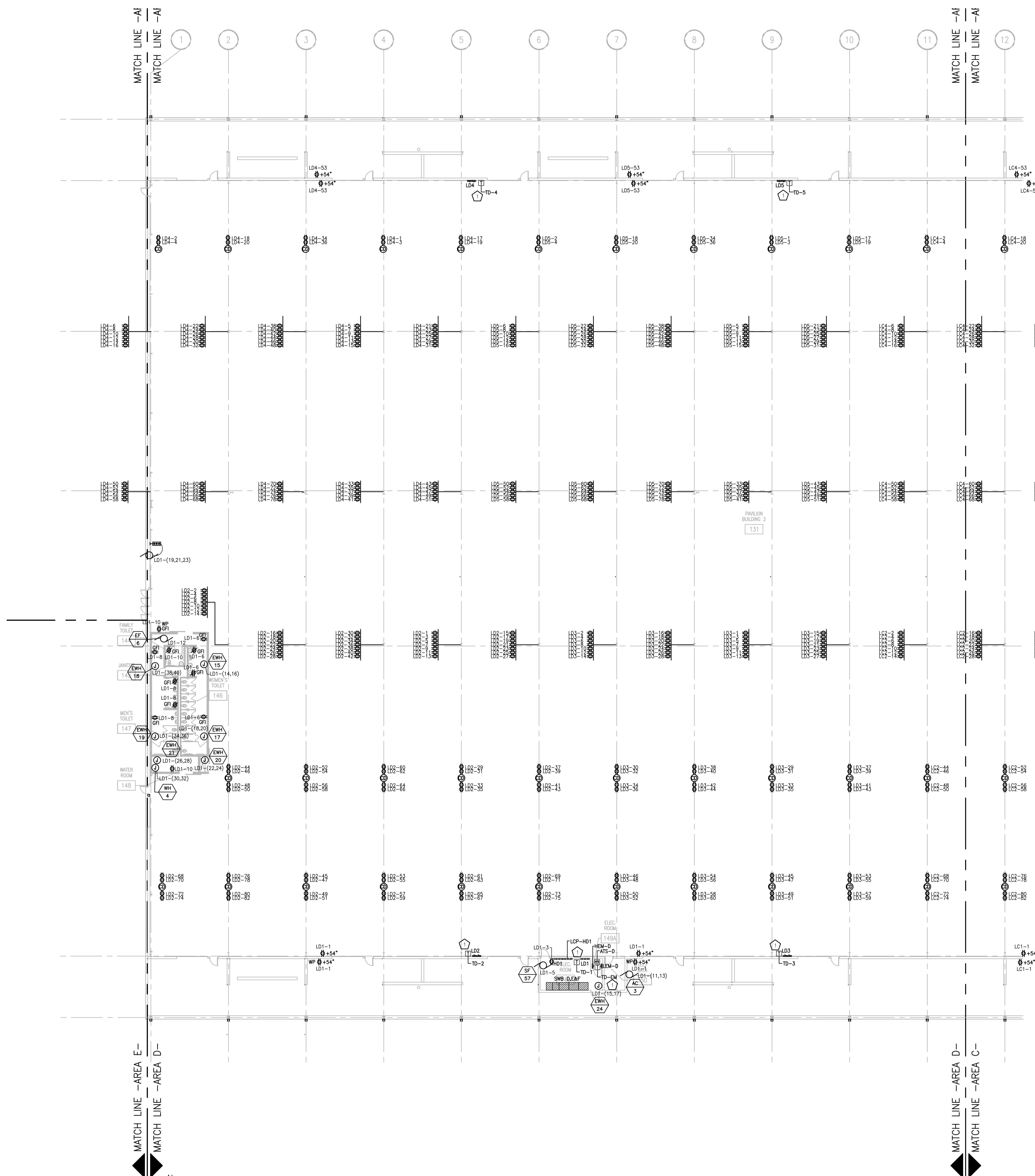
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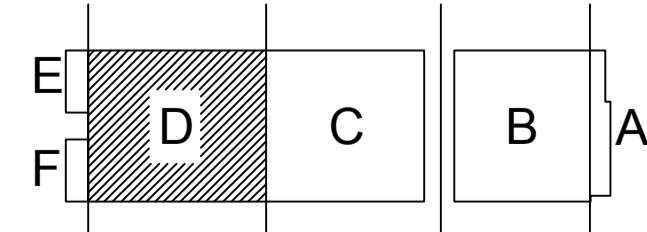
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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN PAVILION BUILDINGS SHALL BE GFI AND WATERPROOF.
2	SEE SHEET E401 DETAIL #11 FOR CORD DROP DETAIL.

PLAN - SPECIFIC NOTES	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.



FIRST FLOOR POWER PLAN - AREA D  
SCALE: 1/16" = 1'-0"



KEY PLAN

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PROJECT NO.	2013027_02

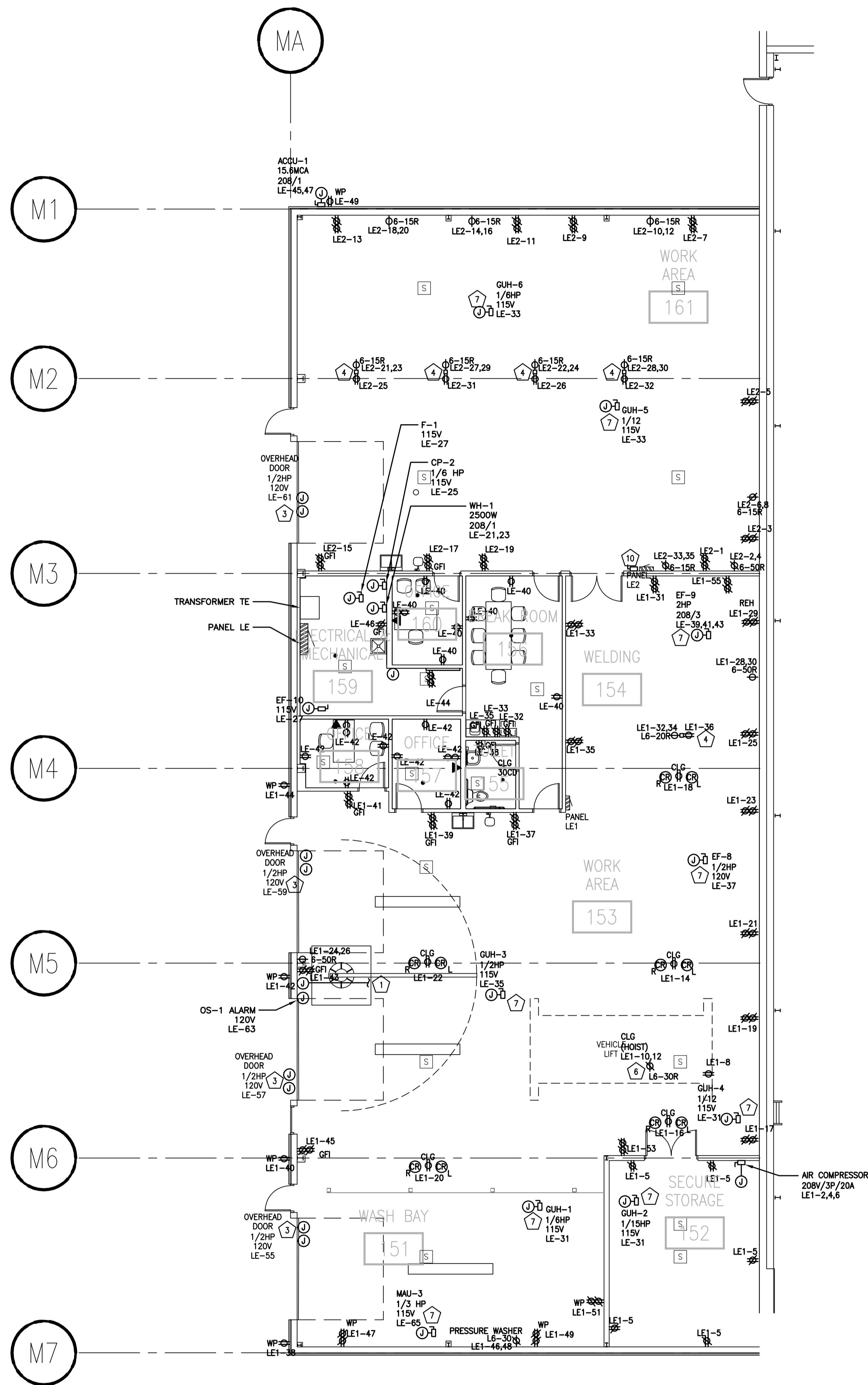
PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
POWER PLAN  
AREA D - BUILDING 2**

SHEET NO.  
**EP201D**

JUSTIN BALWEG, 2008-5-30 2:27 PM K:\2013\013027-ALLIANT ENERGY CENTER-LESS02013027\_02-AC-1E-1E\DRAWINGS\2013027\_02-EP201D.DWG



BUILDING E SPECIFIC  
LIGHTING/POWER/SYSTEMS NOTES

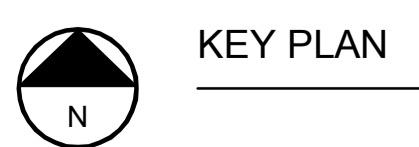
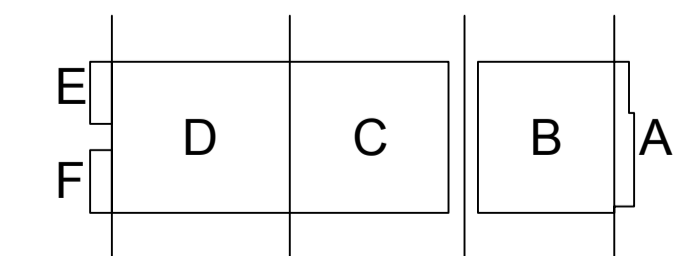
#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS-1 ALARM ON WALL TO OS-1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS. COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE. COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 15GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHU. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHU'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4"X8" UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQUIRED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOOKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3-POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.

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PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



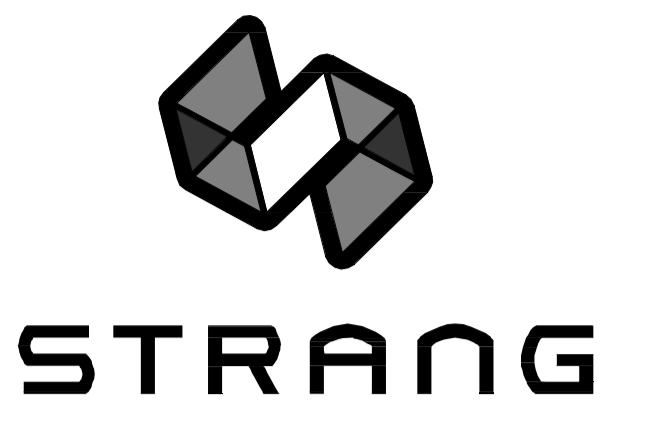
KEY PLAN

SHEET TITLE  
FIRST FLOOR  
POWER PLAN  
AREA E - BUILDING 2

SHEET NO.  
EP201E

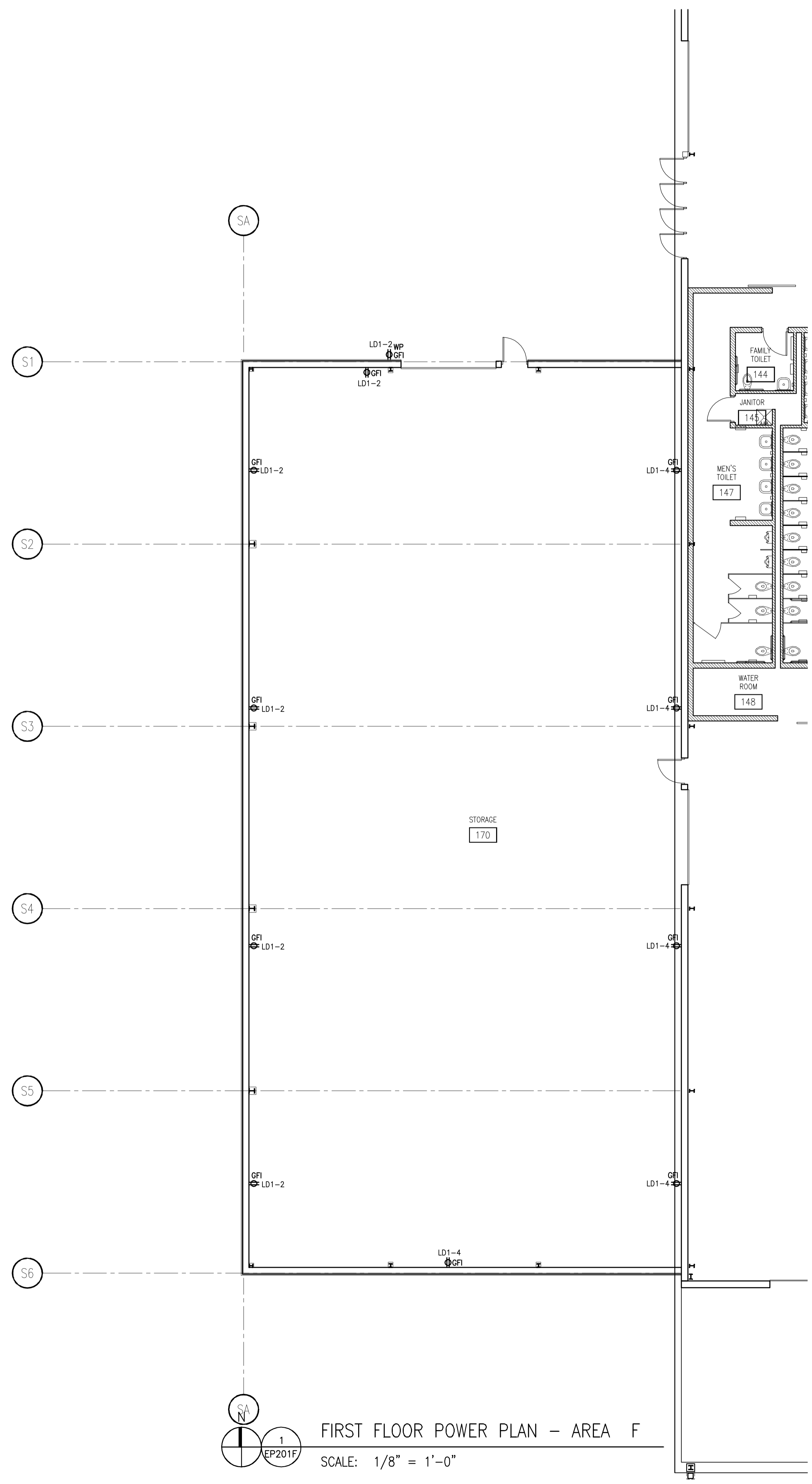


GENERAL PLAN NOTES	
1	RECEPTACLES TO BE MOUNT AT 48" AFF.



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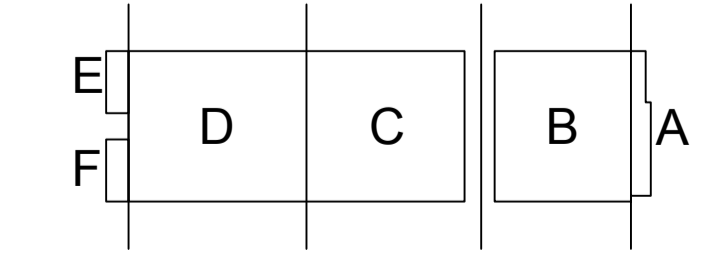
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CENTER PAVILIONS  
BID # 313072**

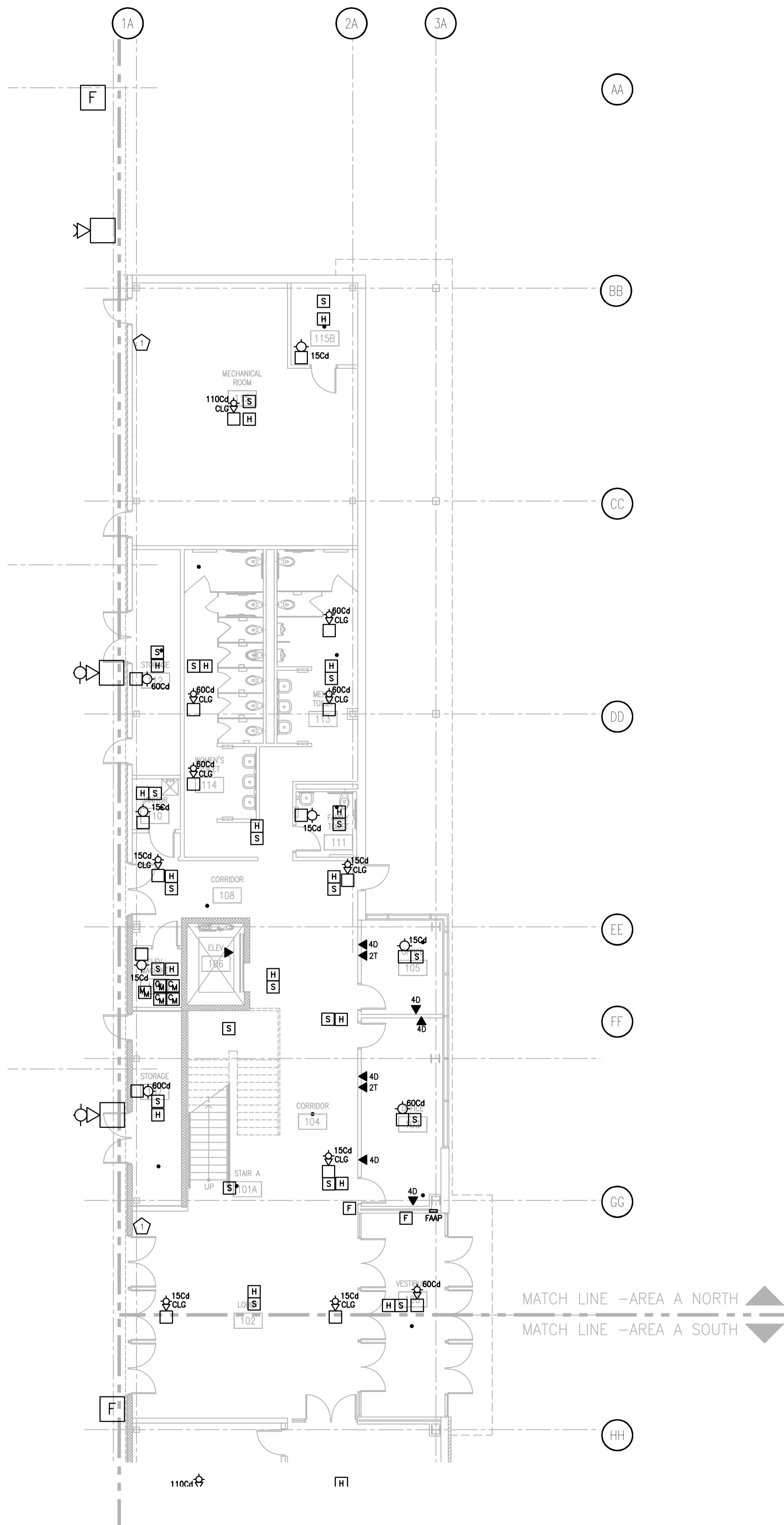
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MADISON, WISCONSIN 53713

SHEET TITLE  
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AREA F BUILDING 2**

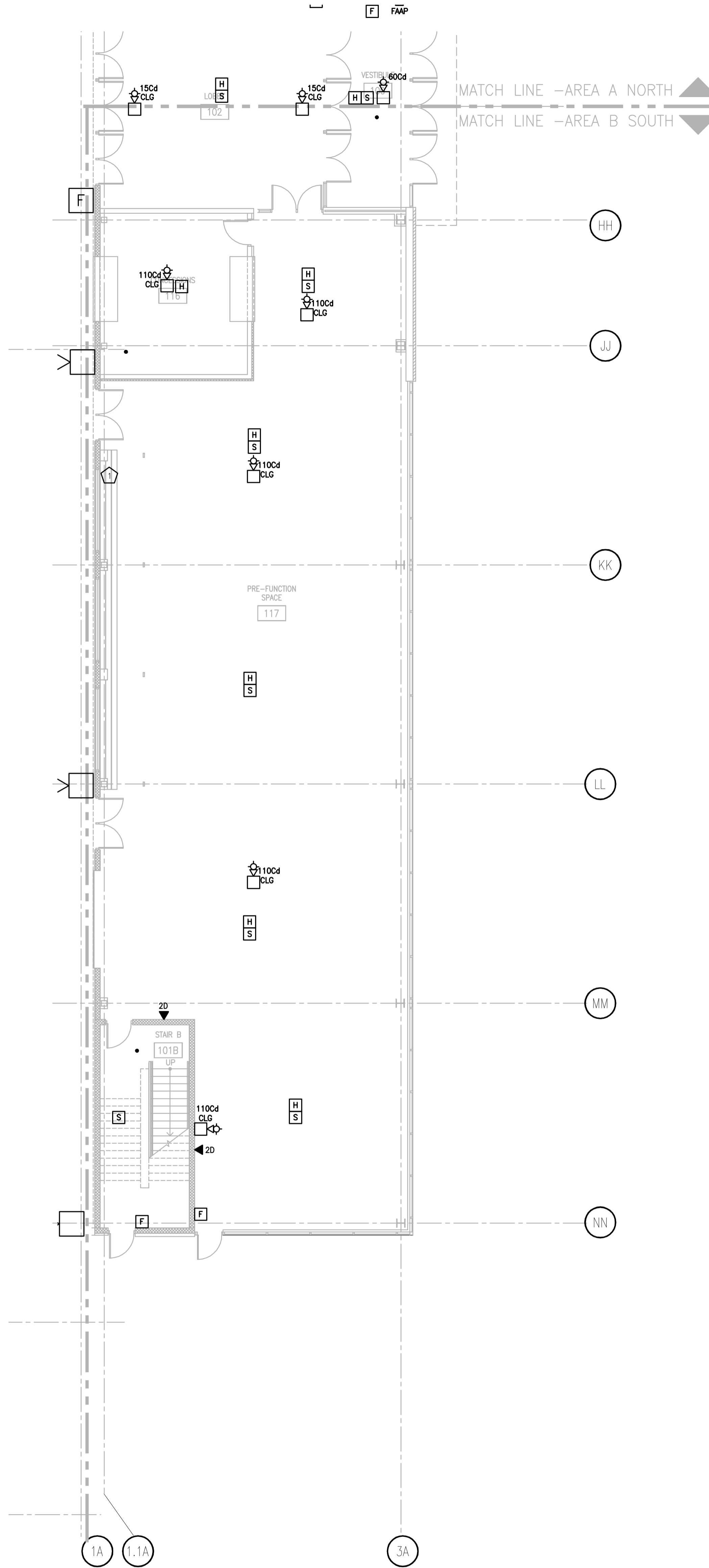
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1  
ES201A  
FIRST FLOOR SYSTEMS PLAN - AREA A NORTH  
SCALE: 1/8" = 1'-0"

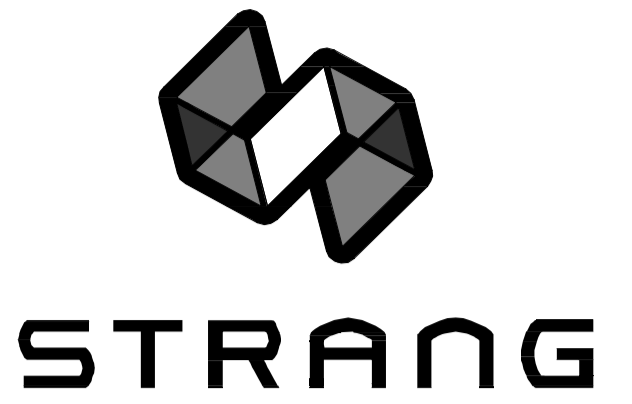


2  
ES201A  
FIRST FLOOR SYSTEMS PLAN - AREA A SOUTH  
SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES	
1	ALL FIRE ALARM TO BE FED FROM PANEL LEM-B.

PLAN - SPECIFIC NOTES	
1	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402 LOCATE 18" AFF.



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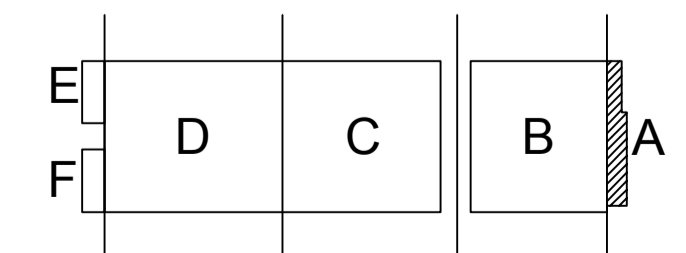
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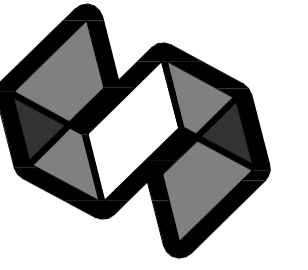
ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

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MADISON, WISCONSIN 53713



SHEET TITLE  
FIRST FLOOR  
SYSTEMS PLAN  
AREA A BUILDING 1

SHEET NO.  
ES201A



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GENERAL PLAN NOTES	
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 120 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-B.

PLAN - SPECIFIC NOTES	
1	QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES TO BE COORDINATED WITH SPRINKLER CONTRACTOR.
2	REFER TO SHEET E301 FOR EQUIPMENT LOCATED IN ROOM.

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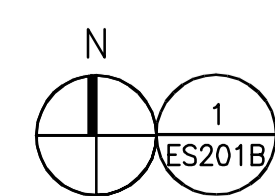
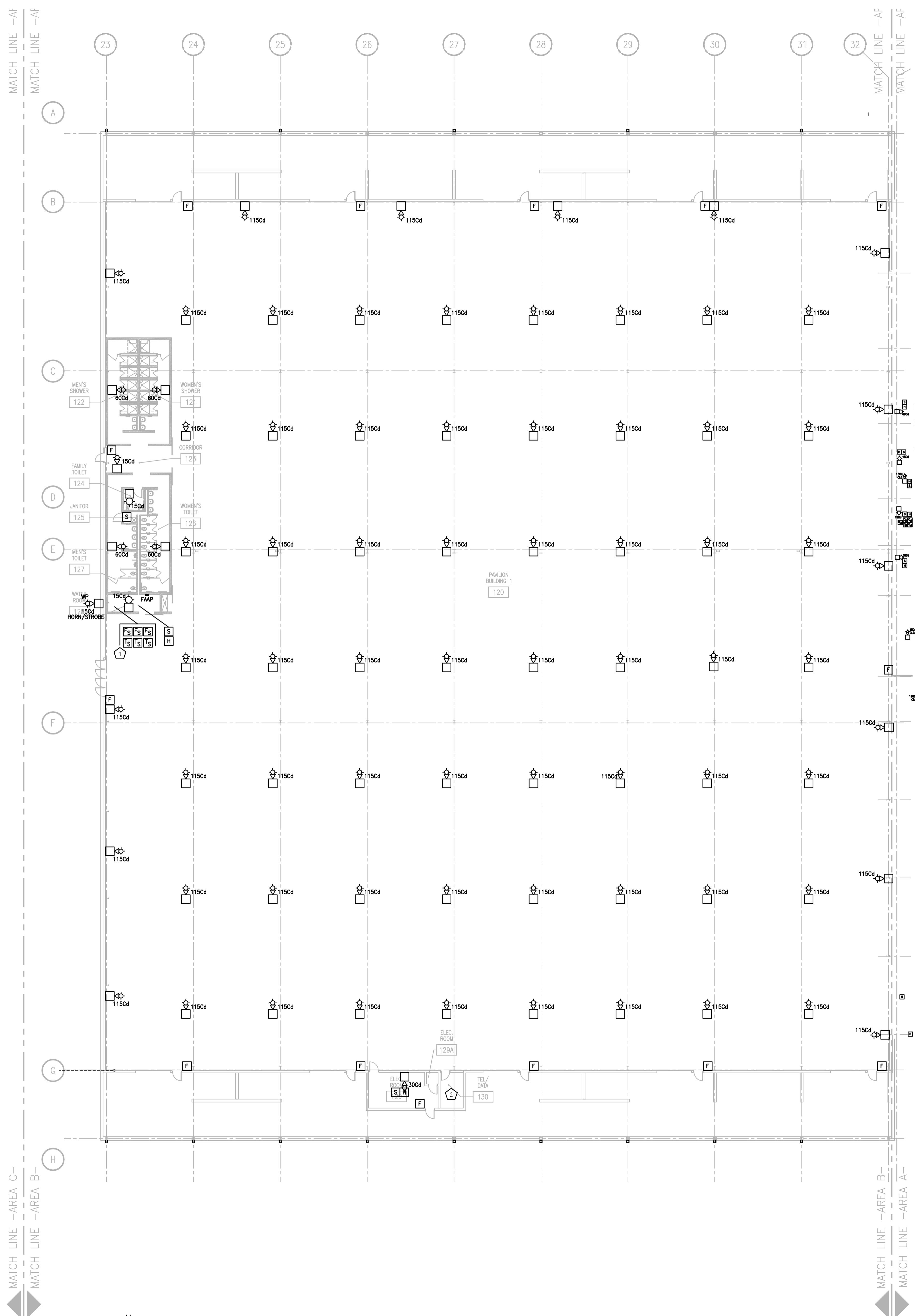
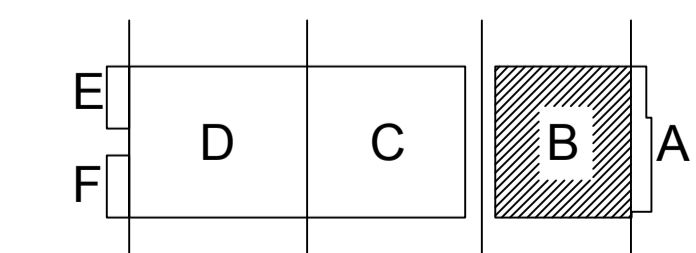
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ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
SYSTEMS PLAN  
AREA B - BUILDING 1**

SHEET NO.  
**ES201B**



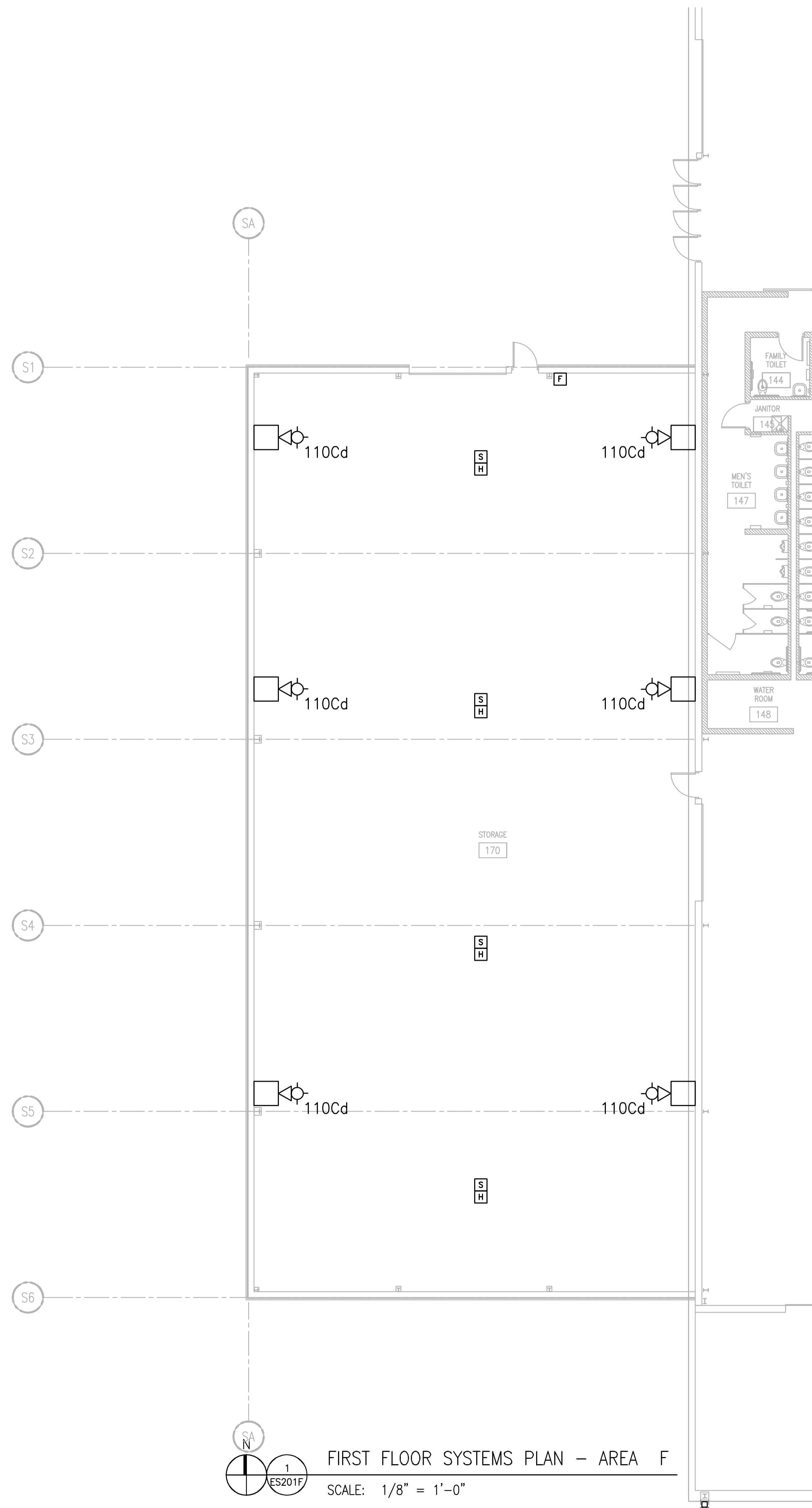
FIRST FLOOR SYSTEMS PLAN - AREA B  
SCALE: 1/16" = 1'-0"

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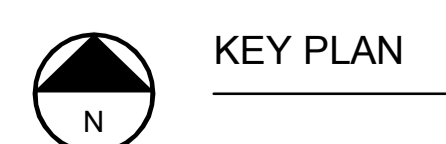
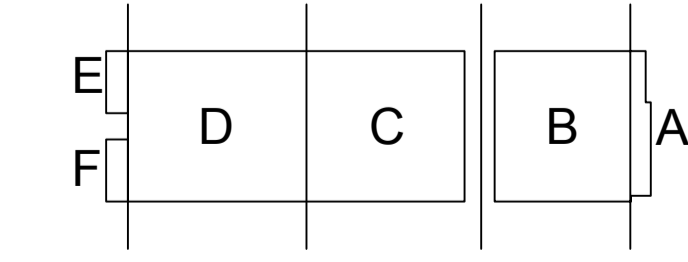
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BID # 313072**

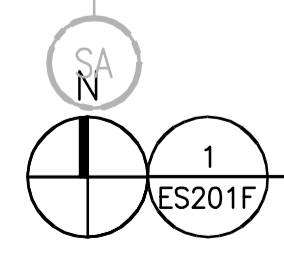
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
SYSTEMS PLAN  
AREA F BUILDING 2**

SHEET NO.  
**ES201F**



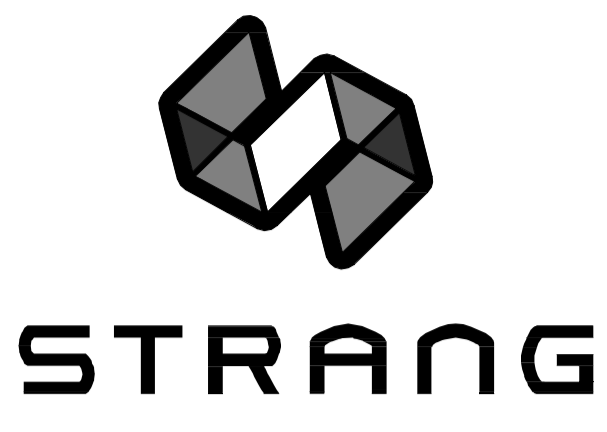
KEY PLAN



FIRST FLOOR SYSTEMS PLAN - AREA F  
SCALE: 1/8" = 1'-0"

JUSTIN BALUNES, 2008-8-30 2:27 PM (K), 201302013027 - ALLIANT ENERGY CENTER - LES2013027\_02 - AEC - LE HALUPAVNUS2013027\_02-ES201F.DWG



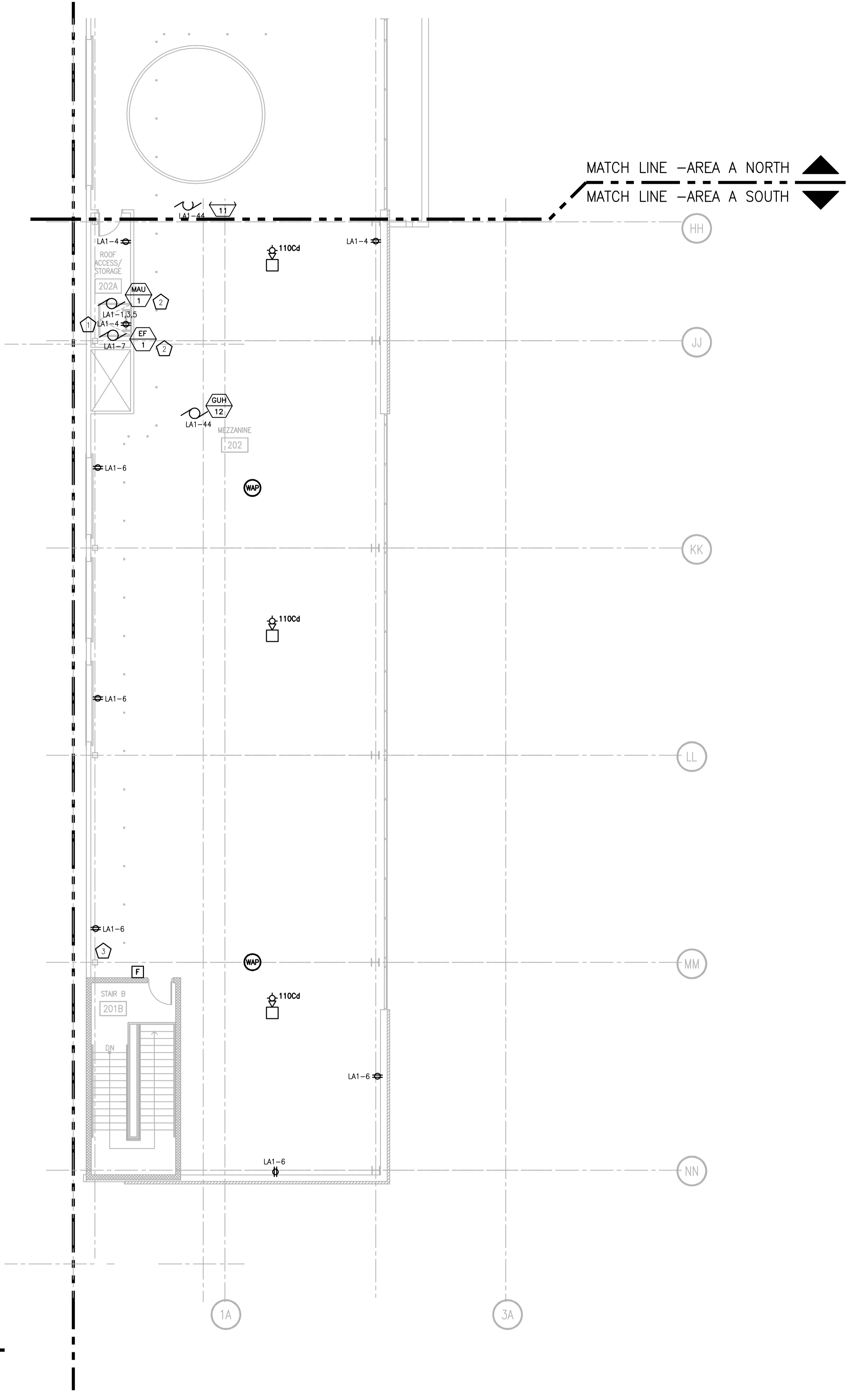
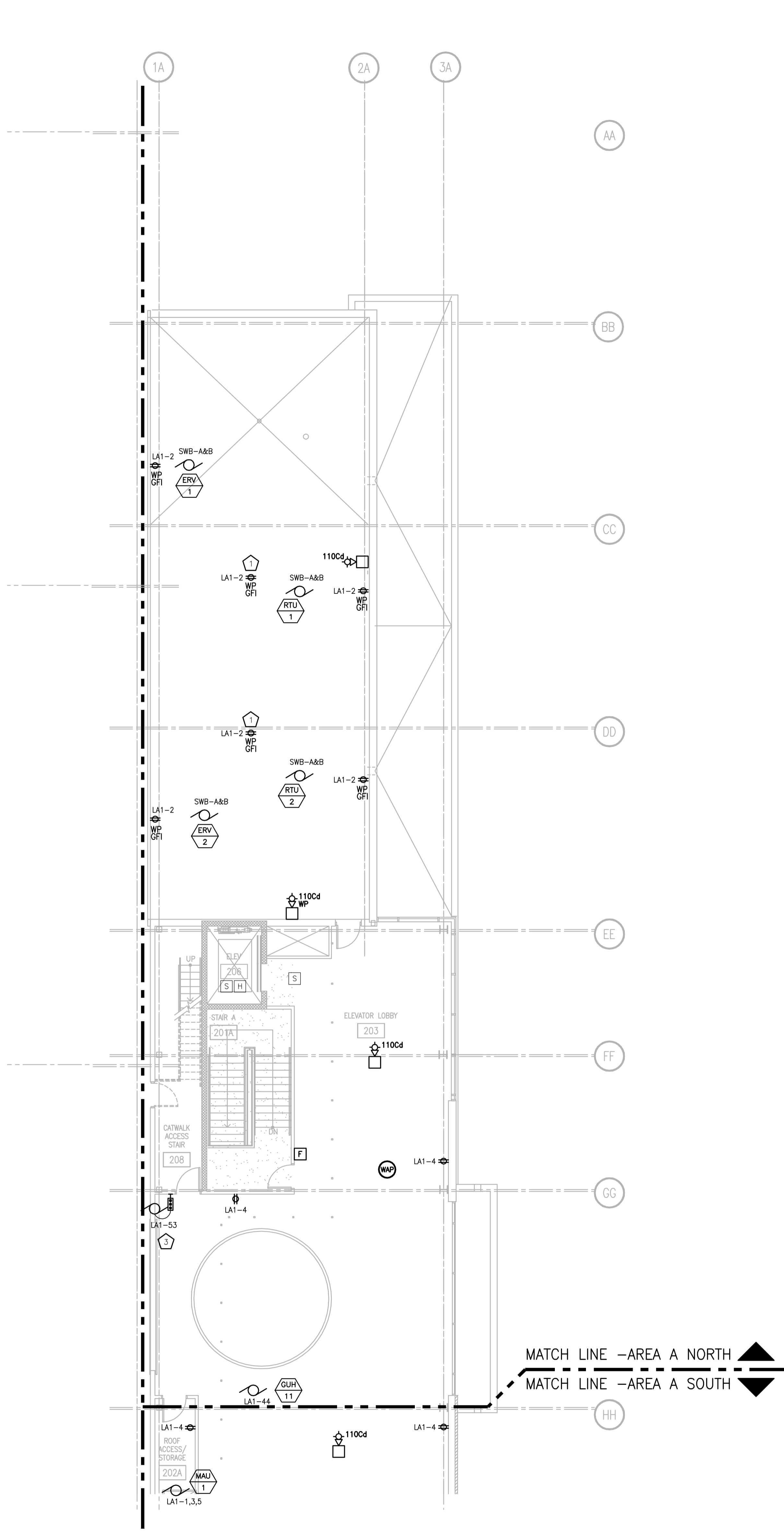


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

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MADISON, WI 53705-4395  
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GENERAL PLAN NOTES	
1	ALL RECEPTACLES IN MECHANICAL AREAS TO BE MOUNTED AT 48" AFF.

PLAN - SPECIFIC NOTES	
1	LOCATE ABOVE ROOF TO ACCOMMODATE MECHANICAL EQUIPMENT.
2	MOTORS LOCATED ON ROOF. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
3	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 18" AFF (MEZZANINE LEVEL FLOOR)



MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A - NORTH  
SCALE: 1/8" = 1'-0"

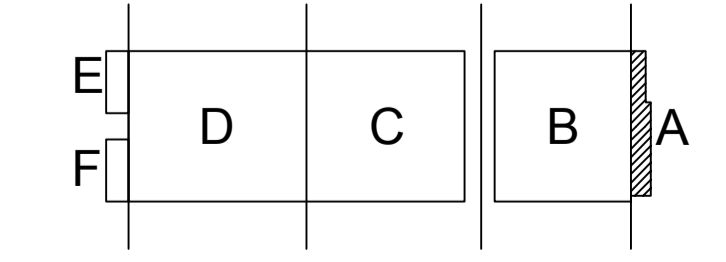
MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"

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DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS BID # 313072**

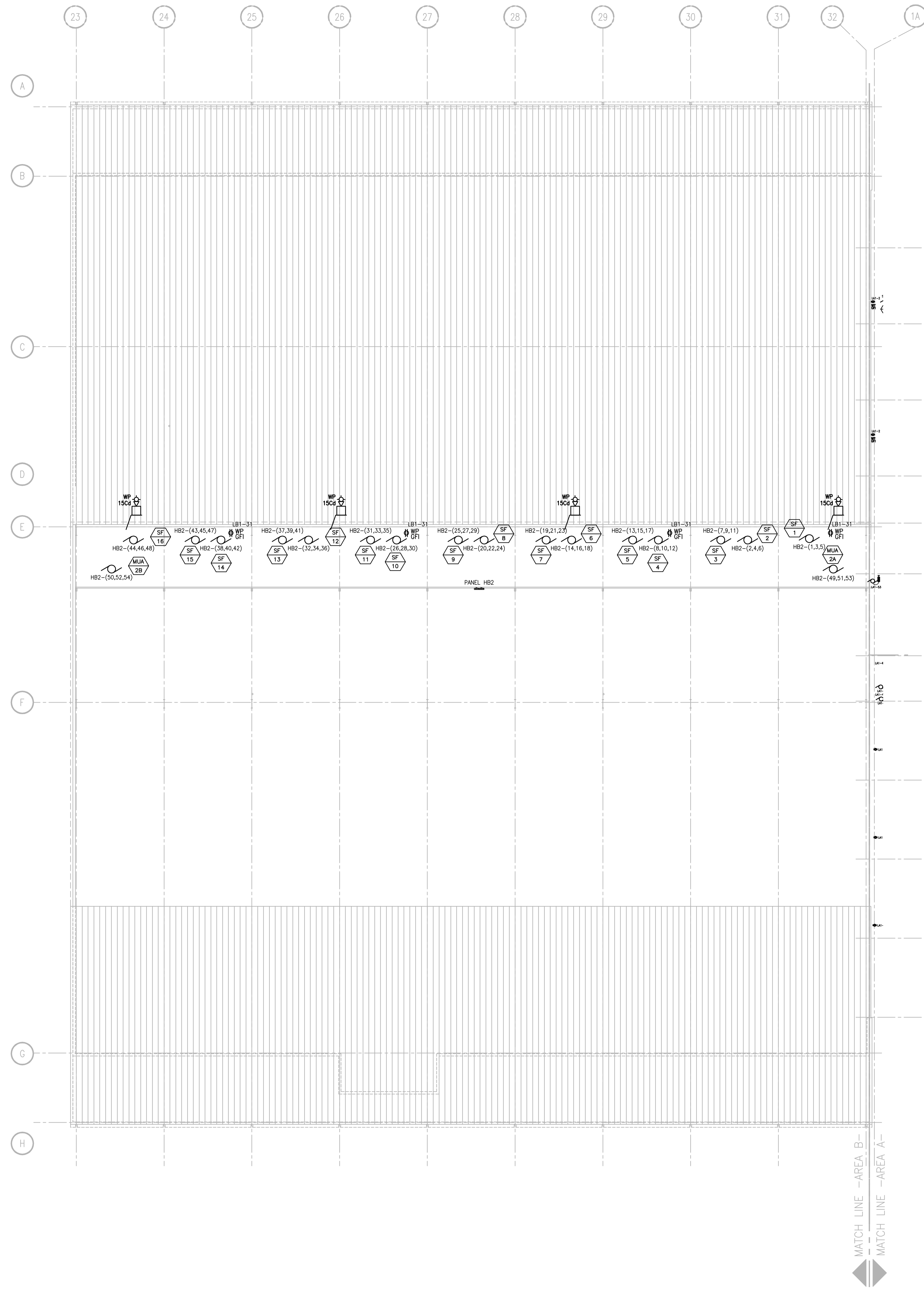
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



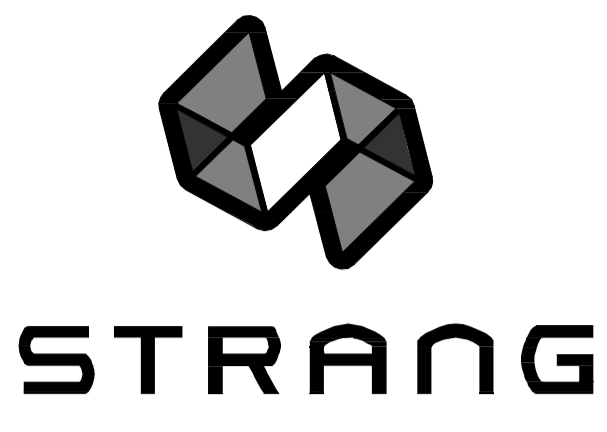
SHEET TITLE  
**MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A**  
SHEET NO.  
**EP202A**

JUSTIN BALUNES, 2008-5-30 2:27 PM (K:\201302013027 - ALLIANT ENERGY CENTER - LES62013027\_02 - AEC - LE HALLDRAWINGS\2013027\_02-EP202A.DWG)





GENERAL PLAN NOTES	
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.



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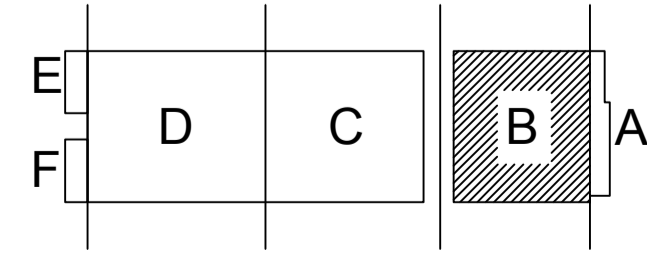
DRAWN	KK
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DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

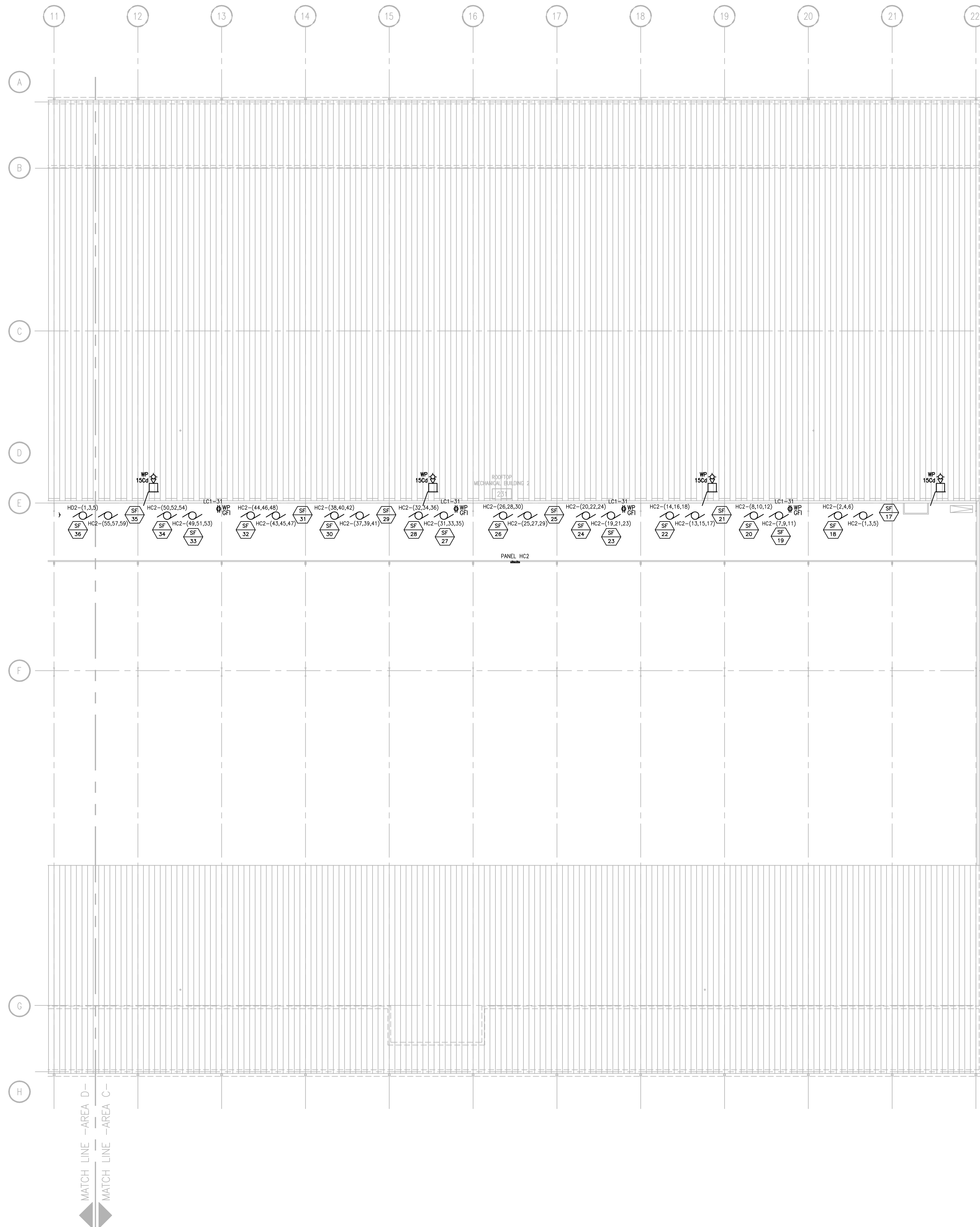
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**MEZZANINE  
POWER/SYSTEMS  
AREA B - BUILDING 1**

SHEET NO.  
**EP202B**

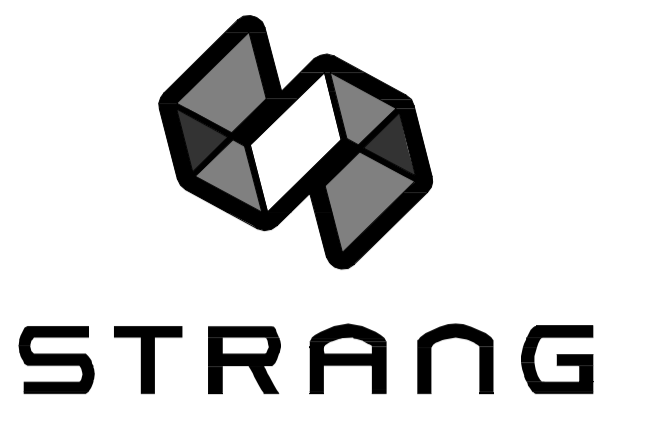


MEZZANINE POWER/SYSTEMS PLAN - AREA B  
SCALE: 1/16" = 1'-0"

JUSTIN BALUWEG, 2008-6-30 2:27 PM (K), 201302013027 - ALLIANT ENERGY CENTER - LES62013027\_02 - AEC - LE HALUDRAWINGS2013027\_02-EP202B.DWG



GENERAL PLAN NOTES	
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.



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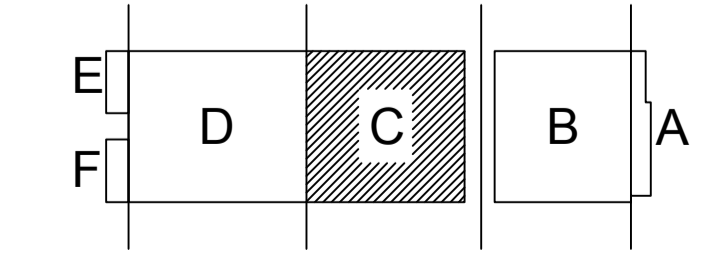
DRAWN	KK
CHECKED	AS
DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

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MADISON, WISCONSIN 53713

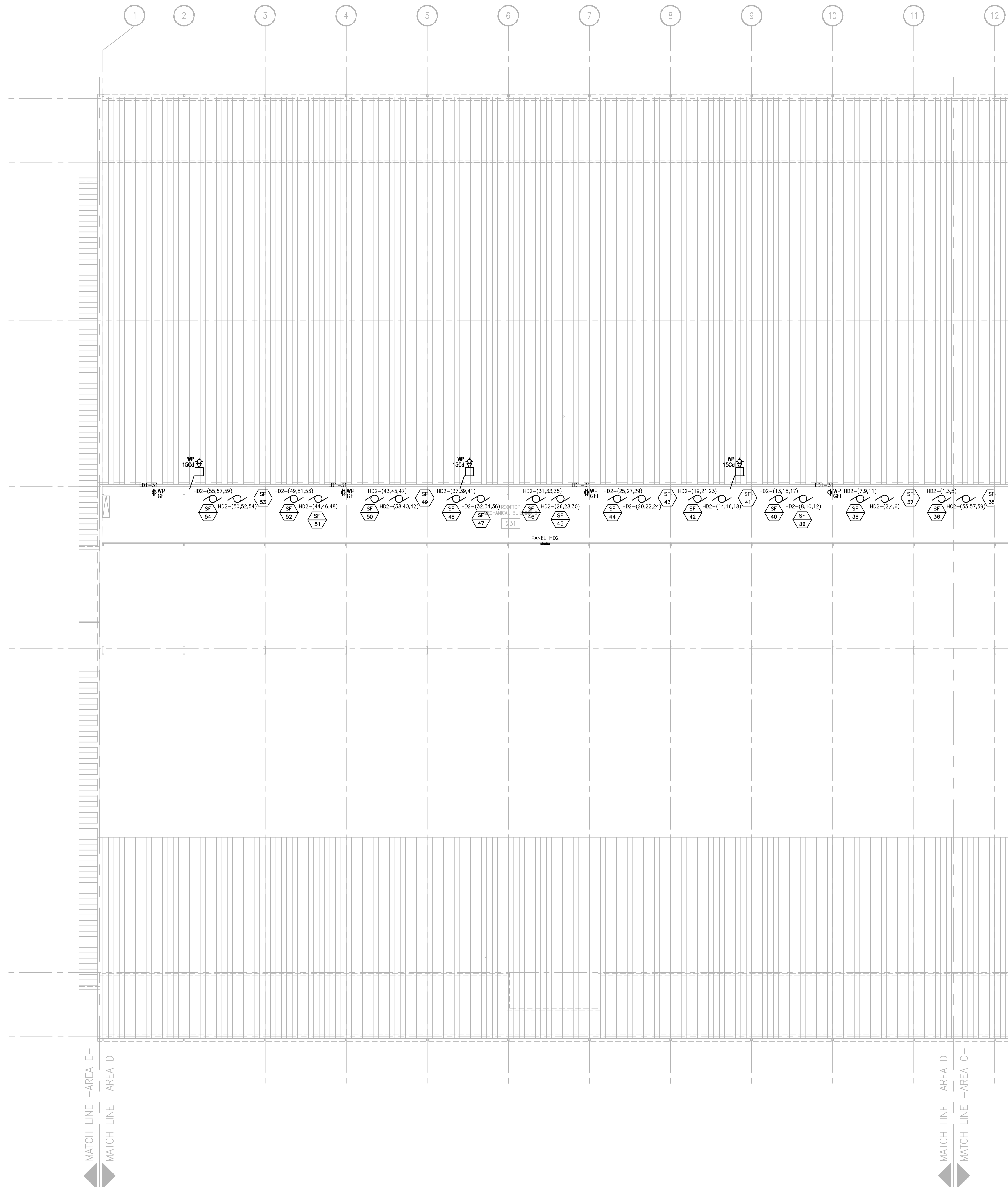
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**MEZZANINE  
POWER/SYSTEMS  
AREA C - BUILDING 2**

SHEET NO.  
**EP202C**

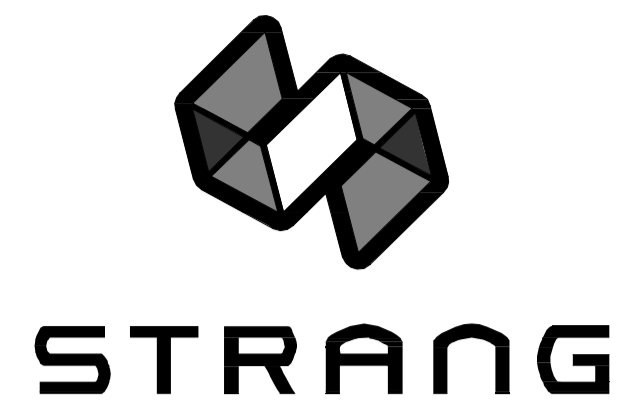


**MEZZANINE POWER/SYSTEMS PLAN - AREA C**  
SCALE: 1/16" = 1'-0"

JUSTIN BALUWEG, 2008-5-30 2:27 PM (K:\2013\2013027-ALLIANT ENERGY CENTER-LESG\2013027\_02-EP202C.DWG) 10/29/13 10:29:13 AM



GENERAL PLAN NOTES	
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.



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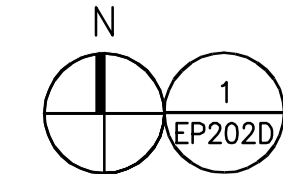
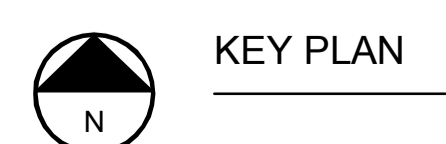
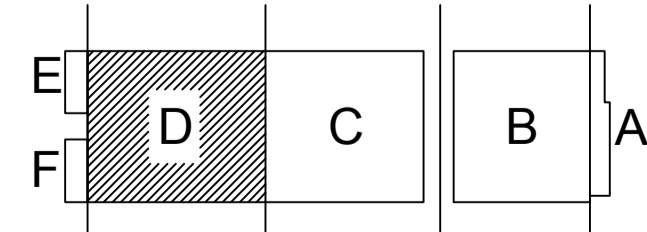
DRAWN	KK
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
POWER/SYSTEMS  
AREA D - BUILDING 2**

SHEET NO.  
**EP202D**

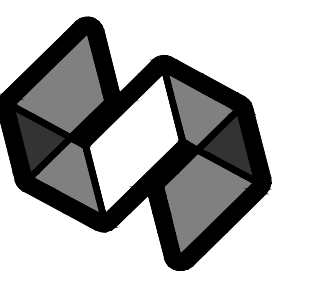


MEZZANINE POWER/SYSTEMS PLAN - AREA D  
SCALE: 1/16" = 1'-0"

JUSTIN BALUNES, 2008-6-30 2:27 PM K:\2013027\_02-EP202D.DWG - ALLIANT ENERGY CENTER - LESSE2013027\_02-EP202D.DWG







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Panelboard: LBSA. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: SWB A/B. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 145.0 A. Load Fed.

Panelboard: LBSB. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 208.0 A. Load Fed.

Panelboard: ELEV. Bus Ampacity 100, Branch Brkr Space 18, MLO Amps 70. Panel Source: SWB A/B. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 AIC. Sub-Feed Brkr #2 7.5 A. Load Fed.

Panelboard: HCl. Bus Ampacity 250, Branch Brkr Space 42, MLO Amps 250. Panel Source: DP C. Feed (Top/Bottom) 277/480. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 35K. Sub-Feed Brkr #2 64.0 A. Load Fed.

Panelboard: LCI. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 300. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 123.9 A. Load Fed.

Panelboard: LC2A. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 208.0 A. Load Fed.

Panelboard: LC2B. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 208.0 A. Load Fed.

Panelboard: LC3A. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 261.0 A. Load Fed.

Panelboard: LC3B. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 145.0 A. Load Fed.

Panelboard: LC3C. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 145.0 A. Load Fed.

Panelboard: LC4A. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 300. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 183.0 A. Load Fed.

Panelboard: LC4B. Bus Ampacity 400, Branch Brkr Space 42, MLO Amps 400. Panel Source: DP C. Feed (Top/Bottom) 120/208. Feed-Thru Lugs 3. Sub-Feed Lugs 4. Load Fed. Sub-Feed Brkr #1 22K. Sub-Feed Brkr #2 145.0 A. Load Fed.

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PROJECT NO. 2013027\_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

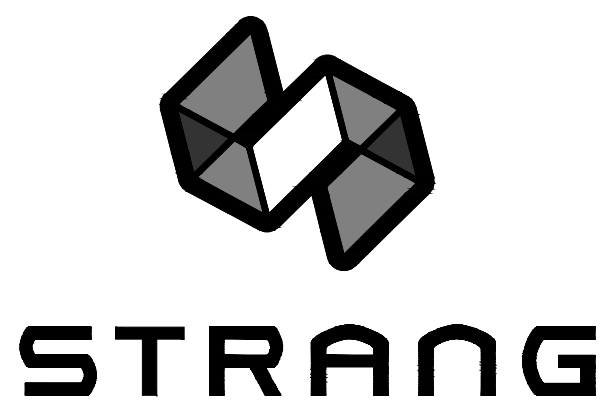
PANELBOARD SCHEDULES

SHEET NO. E502

DATE: 10/29/13 10:47:28 AM

MATE KUBACKA, 2009-03-30 2:27 PM K:\2013\2013027\_02\_AEC - LE HALLDRAWINGS\2013027\_02\_E502.DWG





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INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
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Panelboard: LCSA Panel Source: DP C
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 105.5 A
Pal Width 105.5 A
Pal Depth

Panelboard: LCSB Panel Source: DP C
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 105.5 A
Pal Width 105.5 A
Pal Depth

Panelboard: HDI Panel Source: SWB D,E,F
Bus Ampacity 250 Volts 277/480
Branch Brkr Space 42 Phase 3
MLO Amps 250 Wires 4
MCB A/P Surface YES 4
Pal Mfr Recessed
Pal Type AIC 35K
Pal Height 74.9 A
Pal Width 74.9 A
Pal Depth

Panelboard: LDI Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 300 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 127.3 A
Pal Width 127.3 A
Pal Depth

Panelboard: LDZA Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 219.0 A
Pal Width 219.0 A
Pal Depth

Panelboard: LDZB Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 219.0 A
Pal Width 219.0 A
Pal Depth

Panelboard: LD3A Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 166.0 A
Pal Width 166.0 A
Pal Depth

Panelboard: LD3B Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 166.0 A
Pal Width 166.0 A
Pal Depth

Panelboard: LD4A Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 105.5 A
Pal Width 105.5 A
Pal Depth

Panelboard: LD4B Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 105.5 A
Pal Width 105.5 A
Pal Depth

Panelboard: LD5A Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 105.5 A
Pal Width 105.5 A
Pal Depth

Panelboard: LD5B Panel Source: SWB D,E,F
Bus Ampacity 400 Volts 120/208
Branch Brkr Space 42 Phase 3
MLO Amps 400 Wires 4
MCB A/P 400 Surface YES 4
Pal Mfr Recessed
Pal Type AIC 22K
Pal Height 105.5 A
Pal Width 105.5 A
Pal Depth

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PROJECT NO. 2013027\_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY MADISON, WISCONSIN 53713

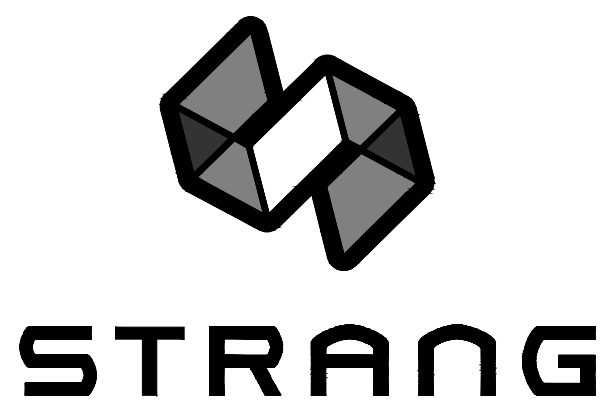
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PANELBOARD SCHEDULES

SHEET NO. E503

DATE: 10/29/13 11:28:24 AM

MATE KUBACKA, 2009-03-30 2:27 PM K:\20130207\02-E503\1919-ALLIANT ENERGY CENTER-LES2013027\_02-E503.DWG



ARCHITECTURE  
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INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
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Panelboard LE Panel Source: TRANSFORMER TE. Bus Ampacity 400A, Branch Bkr Space 84, MLO Amps 600, MCB A/P 400AP. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard LE1 Panel Source: Panel LE. Bus Ampacity 150, Branch Bkr Space 72, MLO Amps 600, MCB A/P 150. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard LE2 Panel Source: Panel LE. Bus Ampacity 150, Branch Bkr Space 42, MLO Amps 300, MCB A/P 150. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard: LC6A Panel Source: DP C. Bus Ampacity 600, Branch Bkr Space 42, MLO Amps 600, MCB A/P 600. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard: LC6B Panel Source: DP C. Bus Ampacity 600, Branch Bkr Space 42, MLO Amps 600, MCB A/P 600. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard: LC7 Panel Source: SWB C. Bus Ampacity 400, Branch Bkr Space 42, MLO Amps 300, MCB A/P 300. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard: HEM-B Panel Source: Panel Source. Bus Ampacity 250, Branch Bkr Space 18, MLO Amps 50, MCB A/P 50. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard: HEM-C Panel Source: Panel Source. Bus Ampacity 250, Branch Bkr Space 18, MLO Amps 50, MCB A/P 50. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

Panelboard: HEM-D Panel Source: Panel Source. Bus Ampacity 250, Branch Bkr Space 18, MLO Amps 50, MCB A/P 50. Includes load schedule table with columns for Fed, Ckt No, Brkr A/P, Left Phases (A, B, C), Right Phases (A, B, C), Brkr A/P, Ckt No, and Load to be Fed.

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO. E504

DATE: 10/20/2013 10:27:02 AM BY: KATE KUBACKA, 20094530 2:27 PM K:\20130207\02-ALLIANT ENERGY CENTER-LESE02013027\_02-E504.DWG



MOTOR SCHEDULE												
MECH. EQUIP. NO.	EQUIPMENT	LOCATION ROOM NUMBER	FLA/A/W	MCA	MOCP	HP	VOLT	PH	STARTER BY MC/PC/EC	DISCONNECT BY MC/PC/EC	CONTROL WIRING BY MC/PC/EC	REMARKS
ERV-1	ENERGY RECOVERY VENTILATOR	PREFUNCTION RESTROOM	4.8FLA	10.8	15	(2)1.5	460	3	MC	MC	MC	
ERV-2	ENERGY RECOVERY VENTILATOR	RTU 1,2 EVENT VENTILATION	22FLA	24.8	40	(2)5	460	3	MC	MC	MC	
RTU-1	ROOFTOP UNIT	1ST FLR PREFUNCTION		70	90	7.5	460	3	MC	MC	MC	4
RTU-2	ROOFTOP UNIT	MEZZ. PREFUNCTION		80	100	15	460	3	MC	MC	MC	2
MAU-1	MAKEUP AIR UNIT	PREFUNCTION ROOF				3/4	208	3	MC	MC	MC	4
MAU-2A	MAKEUP AIR UNIT	BLDG 1 SUPPLY FAN	27FLA		80	20	460	3	MC	MC	MC	
MAU-2B	MAKEUP AIR UNIT	BLDG 1 SUPPLY FAN	27FLA		80	20	460	3	MC	MC	MC	
MAU-3	MAKEUP AIR UNIT	WASH BAY 151				1/2	120	1	MC	EC	MC	
AC-1	THROUGH THE WALL AC	130 TELE/DATA		16	30		208	1	MC	EC	MC	
AC-2	THROUGH THE WALL AC	133 TELE/DATA		16	30		208	1	MC	EC	MC	
AC-3	THROUGH THE WALL AC	150 TELE/DATA		16	30		208	1	MC	EC	MC	
SS-1	SPLIT SYSTEM	143 CONCESSION		26	40		208	1	MC	EC	MC	5
VAV 1	VAV W/ELEC HEAT	OFFICE 103	6.7A				120	1	MC	MC	MC	
VAV 2	VAV W/ELEC HEAT	OFFICE 105	6.7A				120	1	MC	MC	MC	
VAV 4	VAV W/ELEC HEAT	CONCESSIONS 116	15.2A				208	1	MC	MC	MC	
ACCU 1	AIR COOLED CONDENSING UNIT	SERVES F1		15.6	25		208	1	MC	EC	MC	
F1	FURNACE	159 MECH.			15	1/2	120	1	MC	EC	MC	
CP-1	CIRC PUMP	RM 128				3/8	120	1	PC	EC	-	
CP-2	CIRC PUMP	RM 115				3/8	120	1	PC	EC	-	
SP-1	SUMP PUMP	RM 115				3/4	208	3	PC	EC	-	
WH-1	WATER HEATER	RM 128					120	1	PC	EC	-	
WH-2	WATER HEATER	RM 115					120	1	PC	EC	-	3
WH-3	WATER HEATER	RM 138	2500KW				208	1	PC	EC	-	
WH-4	WATER HEATER	RM 148	2500KW				208	1	PC	EC	-	
WH-5	WATER HEATER	RM 142					120	1	PC	EC	-	3
WH-6	WATER HEATER	RM 142							PC	EC	-	3
WH-7	WATER HEATER	RM 142							PC	EC	-	3

GENERAL NOTES:

1. WALL SWITCH BY E.C. FOR MANUAL CONTROL.
2. INTERLOCK WITH LIGHTS BY E.C.
3. EXISTING UNIT BEING RELOCATED.
4. E.C. TO PROVIDE 120V POWER TO GFI OUTLET WITH UNIT.
5. E.C. TO PROVIDE POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS.

LIGHTING SCHEDULES FOR BLDG A				
SWITCHES	LOCATIONS	CIRCUITS	SCENE	PANEL
LV1	PAVILION A			
LV2	PAVILION A			
LV3	PAVILION A			
LV4	PAVILION A			
LV5	PAVILION A			
LV6	PAVILION A			
RELAY				
1	PAVILION A	9		HA1
2	PAVILION A	9		HA1
3	PAVILION A	9		HA1
4	PAVILION A	7		HA1
5	PAVILION A	11		HA1
6	PAVILION A	11		HA1
7	PAVILION A	11		HA1
8	PAVILION A	SPARE		HA1
9	PAVILION A	SPARE		HA1
10	PAVILION A	5		HA1
11	PAVILION A	5		HA1
12	PAVILION A	13		HA1
13	PAVILION A	SPARE		HA1
14	PAVILION A	3		HA1
15	PAVILION A	3		HEM-B
16	PAVILION A	SPARE		HA1

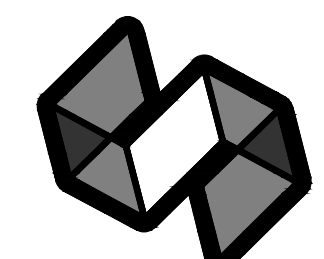
LIGHTING SCHEDULES FOR MEZZANINE				
SWITCHES	LOCATIONS	CIRCUITS	SCENE	PANEL
LV1	PAVILION A			
LV2	PAVILION A			
LV3	PAVILION A			
LV4	PAVILION A			
LV5	PAVILION A			
LV6	PAVILION A			
RELAY				
1	PAVILION A	4		HA1
2	PAVILION A	4		HA1
3	PAVILION A	4		HA1
4	PAVILION A	4		HA1
5	PAVILION A	8		HA1
6	PAVILION A	6		HA1
7	PAVILION A	4		HA1
8	PAVILION A	SPARE		HA1

LIGHTING SCHEDULES FOR BLDG B				
PHOTOCELL	LOCATION	CIRCUITS	CONTROLS	PANEL
P1	PAVILION AREA B ROOF	2	On at dusk off at preset time	HB1
SWITCHES				
SCENE				
LV1	PAVILION B	RELAYS 1 THRU 11	ALL ON	
LV2	PAVILION B	RELAYS 1 THRU 11	ALL OFF	
LV3	PAVILION B	RELAYS 1 THRU 11	(2) LAMPS ON/OFF	
LV4	PAVILION B	RELAYS 1 THRU 11	(2) LAMPS ON/OFF	
LV5	PAVILION B	ODD RELAYS	HALF BLDG ON/OFF (NORTH)	
LV6	PAVILION B	EVEN RELAYS	HALF BLDG ON/OFF (SOUTH)	
RELAY				
1,3	PAVILION B	1		HB1
2,4	PAVILION B	3		HB1
5,7	PAVILION B	5		HB1
6,8	PAVILION B	7		HB1
9,11	PAVILION B	9		HB1
10,12	PAVILION B	11		HB1
13,15	PAVILION B	13		HB1
14,16	PAVILION B	15		HB1
17,19	PAVILION B	17		HB1
18,20	PAVILION B	19		HB1
21,23	PAVILION B	2		HEM-B
24	PAVILION B			

LIGHTING SCHEDULES FOR BLDG C				
PHOTOCELL	LOCATION	CIRCUITS	CONTROLS	PANEL
P1	PAVILION AREA C ROOF	2	On at dusk off at preset time	HC1
SWITCHES				
SCENE				
LV1	PAVILION C	RELAYS 1 THRU 12	ALL ON	
LV2	PAVILION C	RELAYS 1 THRU 12	ALL OFF	
LV3	PAVILION C	RELAYS 1 THRU 12	(2) LAMPS ON/OFF	
LV4	PAVILION C	RELAYS 1 THRU 12	(2) LAMPS ON/OFF	
LV5	PAVILION C	EVEN RELAYS	HALF BLDG ON/OFF (NORTH)	
LV6	PAVILION C	ODD RELAYS	HALF BLDG ON/OFF (SOUTH)	
RELAY				
1,3	PAVILION C	1		HC1
2,4	PAVILION C	3		HC1
5,7	PAVILION C	5		HC1
6,8	PAVILION C	7		HC1
9,11	PAVILION C	9		HC1
10,12	PAVILION C	11		HC1
13,15	PAVILION C	13		HC1
14,16	PAVILION C	15		HC1
17,19	PAVILION C	17		HC1
18,20	PAVILION C	19		HC1
21,23	PAVILION C	21		HC1
22,24	PAVILION C	2		HEM-C

LIGHTING SCHEDULES FOR BLDG D				
PHOTOCELL	LOCATION	CIRCUITS	CONTROLS	PANEL
P1	PAVILION AREA D ROOF	2	On at dusk off at preset time	HD1
SWITCHES				
SCENE				
LV1	PAVILION D	RELAYS 1 THRU 21	ALL ON	
LV2	PAVILION D	RELAYS 1 THRU 21	ALL OFF	
LV3	PAVILION D	RELAYS 1 THRU 21	(2) LAMPS ON/OFF	
LV4	PAVILION D	RELAYS 1 THRU 21	(2) LAMPS ON/OFF	
LV5	PAVILION D	EVEN RELAYS	HALF BLDG ON/OFF (NORTH)	
LV6	PAVILION D	ODD RELAYS	HALF BLDG ON/OFF (SOUTH)	
RELAY				
1,3	PAVILION D	1		HD1
2,4	PAVILION D	3		HD1
5,7	PAVILION D	5		HD1
6,8	PAVILION D	7		HD1
9,11	PAVILION D	9		HD1
10,12	PAVILION D	11		HD1
13,15	PAVILION D	13		HD1
14,16	PAVILION D	15		HD1
17,19	PAVILION D	17		HD1
18,20	PAVILION D	19		HD1
21	PAVILION D	2		HEM-D
22	PAVILION D			
23	PAVILION D			
24	PAVILION D			

MOTOR SCHEDULE												
MECH. EQUIP. NO.	EQUIPMENT	LOCATION ROOM NUMBER	FLA/A/W	MCA	MOCP	HP	VOLT	PH	STARTER BY MC/PC/EC	DISCONNECT BY MC/PC/EC	CONTROL WIRING BY MC/PC/EC	REMARKS
SF-1-16	SUPPLY FAN	BLDG 1 MEZZANINE	14A		25	50	460	3	MC	MC	MC	5
SF-17-54	SUPPLY FAN	BLDG 2 MEZZANINE	14A		25	50	460	3	MC	MC	MC	5
SF-55	SUPPLY FAN	129 ELEC. RM				1/2	120	1	MC	MC	MC	
SF-56	SUPPLY FAN	132 ELEC. RM				1/2	120	1	MC	MC	MC	
SF-57	SUPPLY FAN	149 ELEC. RM				1/2	120	1	MC	MC	MC	
SF-58	SUPPLY FAN	140 MILK PARLOR				3/4	120	1	MC	MC	MC	1
SF-59	SUPPLY FAN	143 CONCESSION				3/4	120	1	MC	MC	MC	
CEF-1	EXHAUST FAN	109 ELEV EQUIP				1/2	120	1	MC	EC	MC	
EF-1	EXHAUST FAN	PREFUNCTION ROOF				3/4	120	1	MC	MC	MC	1
EF-2	EXHAUST FAN	BLDG 1 SHOWER				1/2	120	1	EC	MC	EC	2
EF-3	EXHAUST FAN	BLDG 1 RESTROOM				1/2	120	1	EC	MC	EC	2
EF-4	EXHAUST FAN	BLDG 2 CONCESSION				3/4	120	1	EC		MC	1
EF-5	EXHAUST FAN	BLDG 2 EAST RESTROOM				1/2	120	1	EC		EC	2
EF-6	EXHAUST FAN	BLDG 2 WEST RESTROOM				1/2	120	1	EC		EC	2
EF-7A	EXHAUST FAN	RM 142				1	208	1	EC	MC	MC	
EF-7B	EXHAUST FAN	RM 142				1	208	1	EC	MC	MC	
EF-8	EXHAUST FAN	153 WORK AREA				1/2	120	1	MC	MC	MC	
EF-9	EXHAUST FAN	154 WELDING			2	208	3	MC	MC	MC	MC	
EF-10	EXHAUST FAN	159 MECH RM					120	1	EC	EC	MC	
EW-1A	ELEC. WALL HEATER	100 VESTIBULE	38.5A				208	1	MC	MC	MC	
EW-1B	ELEC. WALL HEATER	100 VESTIBULE	38.5A				208	1	MC	MC	MC	
EW-2	ELEC. WALL HEATER	101B STAIR	38.5A				208	1	MC	MC	MC	
EW-3	ELEC. WALL HEATER	RM 122	14.4A				208	1	MC	MC	MC	
EW-4	ELEC. WALL HEATER	127 MENS TOILET	19.2A				208	1	MC	MC	MC	
EW-5	ELEC. WALL HEATER	129 ELEC RM	19.2A				208	1	MC	MC	MC	
EW-6	ELEC. WALL HEATER	132 ELEC RM	19.2A				208	1	MC	MC	MC	
EW-7	ELEC. WALL HEATER	149 ELEC RM	19.2A				208	1	MC	MC	MC	
EW-8	ELEC. WALL HEATER	143 CONCESSIONS	14.4A				208	1	MC	MC	MC	
EW-9	ELEC. WALL HEATER	143 CONCESSIONS	14.4A				208	1	MC	MC	MC	
EW-10	ELEC. WALL HEATER	136 WOMENS TOILET	19.2A				208	1	MC	MC	MC	
EW-11	ELEC. WALL HEATER	136 WOMENS TOILET	19.2A				208	1	MC	MC	MC	
EW-12	ELEC. WALL HEATER	137 MENS TOILET	19.2A				208	1	MC	MC	MC	
EW-13	ELEC. WALL HEATER	137 MENS TO										



STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

Panelboard: LEM-B		Panel Source:	
Bus Ampacity	100	Volts	120/208
Branch Brkr Space	18	Phase	3
MLO Amps	15	Wires	4
MCB A/P	50	Surface	YES
Pal Mfr		Recessed	
Pal Type	AIC	22K	
Pal Height			
Pal Width			
Pal Depth			

Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
1						2	
2						3	
3						4	
4						5	
5						6	
6						7	
7						8	
8						9	
9						10	
10						11	
11						12	
12						13	
13						14	
14						15	
15						16	
16						17	
17						18	

Total Lights							
Total Recepts							
Total HVAC Bhwrs							
Total HVAC A/C							
Total HVAC Htg							
Total HVAC							
Total Misc							
Total Phases							
Total Panel							

Panelboard: LEM-C		Panel Source:	
Bus Ampacity	100	Volts	120/208
Branch Brkr Space	18	Phase	3
MLO Amps	15	Wires	4
MCB A/P	50	Surface	YES
Pal Mfr		Recessed	
Pal Type	AIC	22K	
Pal Height			
Pal Width			
Pal Depth			

Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
1						2	
2						3	
3						4	
4						5	
5						6	
6						7	
7						8	
8						9	
9						10	
10						11	
11						12	
12						13	
13						14	
14						15	
15						16	
16						17	
17						18	

Total Lights							
Total Recepts							
Total HVAC Bhwrs							
Total HVAC A/C							
Total HVAC Htg							
Total HVAC							
Total Misc							
Total Phases							
Total Panel							

Panelboard: LEM-D		Panel Source:	
Bus Ampacity	100	Volts	120/208
Branch Brkr Space	18	Phase	3
MLO Amps	15	Wires	4
MCB A/P	50	Surface	YES
Pal Mfr		Recessed	
Pal Type	AIC	22K	
Pal Height			
Pal Width			
Pal Depth			

Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
1						2	
2						3	
3						4	
4						5	
5						6	
6						7	
7						8	
8						9	
9						10	
10						11	
11						12	
12						13	
13						14	
14						15	
15						16	
16						17	
17						18	

Total Lights							
Total Recepts							
Total HVAC Bhwrs							
Total HVAC A/C							
Total HVAC Htg							
Total HVAC							
Total Misc							
Total Phases							
Total Panel							

Panelboard: EM MD		Panel Source:	
Bus Ampacity	100	Volts	277/480
Branch Brkr Space	18	Phase	3
MLO Amps	100	Wires	4
MCB A/P		Surface	YES
Pal Mfr		Recessed	
Pal Type		AIC	22K
Pal Height			
Pal Width			
Pal Depth			

Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
1						2	
2						3	
3						4	
4						5	
5						6	
6						7	
7						8	
8						9	
9						10	
10						11	
11						12	
12						13	
13						14	
14						15	
15						16	
16						17	
17						18	

Total Lights							
Total Recepts							
Total HVAC Bhwrs							
Total HVAC A/C							
Total HVAC Htg							
Total HVAC							
Total Misc							
Total Phases							
Total Panel							

Panelboard: HB2		Panel Source:	
Bus Ampacity	400	Volts	277/480
Branch Brkr Space	42	Phase	3
MLO Amps	400	Wires	4
MCB A/P		Surface	YES
Pal Mfr		Recessed	
Pal Type	AIC	35K	
Pal Height			
Pal Width			
Pal Depth			

Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
SF-1						2	
SF-2						3	
SF-3						4	
SF-4						5	
SF-5						6	
SF-6						7	
SF-7						8	
SF-8						9	
SF-9						10	
SF-10						11	
SF-11						12	
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SF-14						15	
SF-15						16	
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SF-24						25	
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SF-29						30	
SF-30						31	
SF-31						32	
SF-32						33	
SF-33						34	
SF-34						35	
SF-35						36	
SF-36						37	
SF-37						38	
SF-38						39	
SF-39						40	
SF-40						41	
SF-41						42	

Total Lights							
Total Recepts							
Total HVAC Bhwrs							
Total HVAC A/C							
Total HVAC Htg							
Total HVAC							
Total Misc							
Total Phases							
Total Panel							

Panelboard: HB2-2		Panel Source:	
Bus Ampacity	400	Volts	277/480
Branch Brkr Space	42	Phase	3
MLO Amps	400	Wires	4
MCB A/P		Surface	YES
Pal Mfr		Recessed	
Pal Type	AIC	35K	
Pal Height			
Pal Width			
Pal Depth			

Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
SF-15						2	
SF-16						3	
SF-17						4	
SF-18						5	
SF-19						6	
SF-20						7	
SF-21						8	
SF-22						9	
SF-23						10	
SF-24						11	
SF-25						12	
SF-26						13	
SF-27						14	
SF-28						15	
SF-29						16	
SF-30						17	
SF-31						18	
SF-32						19	
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SF-44						31	
SF-45						32	
SF-46						33	
SF-47						34	
SF-48						35	
SF-49						36	
SF-50						37	
SF-51						38	
SF-52						39	
SF-53						40	
SF-54						41	
SF-55						42	

Total Lights							
Total Recepts							
Total HVAC Bhwrs							
Total HVAC A/C							
Total HVAC Htg							
Total HVAC							
Total Misc							
Total Phases							
Total Panel							

Panelboard: HC2		Panel Source:	
Bus Ampacity	400	Volts	277/480
Branch Brkr Space	42	Phase	3
MLO Amps	400	Wires	4
MCB A/P		Surface	YES
Pal Mfr		Recessed	
Pal Type	AIC	35K	
Pal Height			
Pal Width			
Pal Depth			

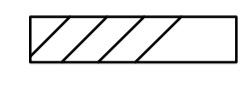
Load to be Fed	Cet No	Brkr A/P	Left Phases A B C	Right Phases A B C	Brkr A/P	Cet No	Load to be Fed
SF-17						2	
SF-18						3	
SF-19						4	
SF-20						5	





**FIRE PROTECTION NOTES**

**LIGHT HAZARD**  
FIRE PROTECTION REQUIREMENTS



NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

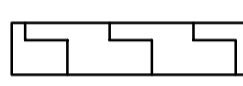
**WET PIPE SYSTEM**

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS.
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES. UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

**ORDINARY HAZARD GROUP 2**  
FIRE PROTECTION REQUIREMENTS



NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

**WET PIPE SYSTEM**

1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS.
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS (MATCH EXISTING).

REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO STATE OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

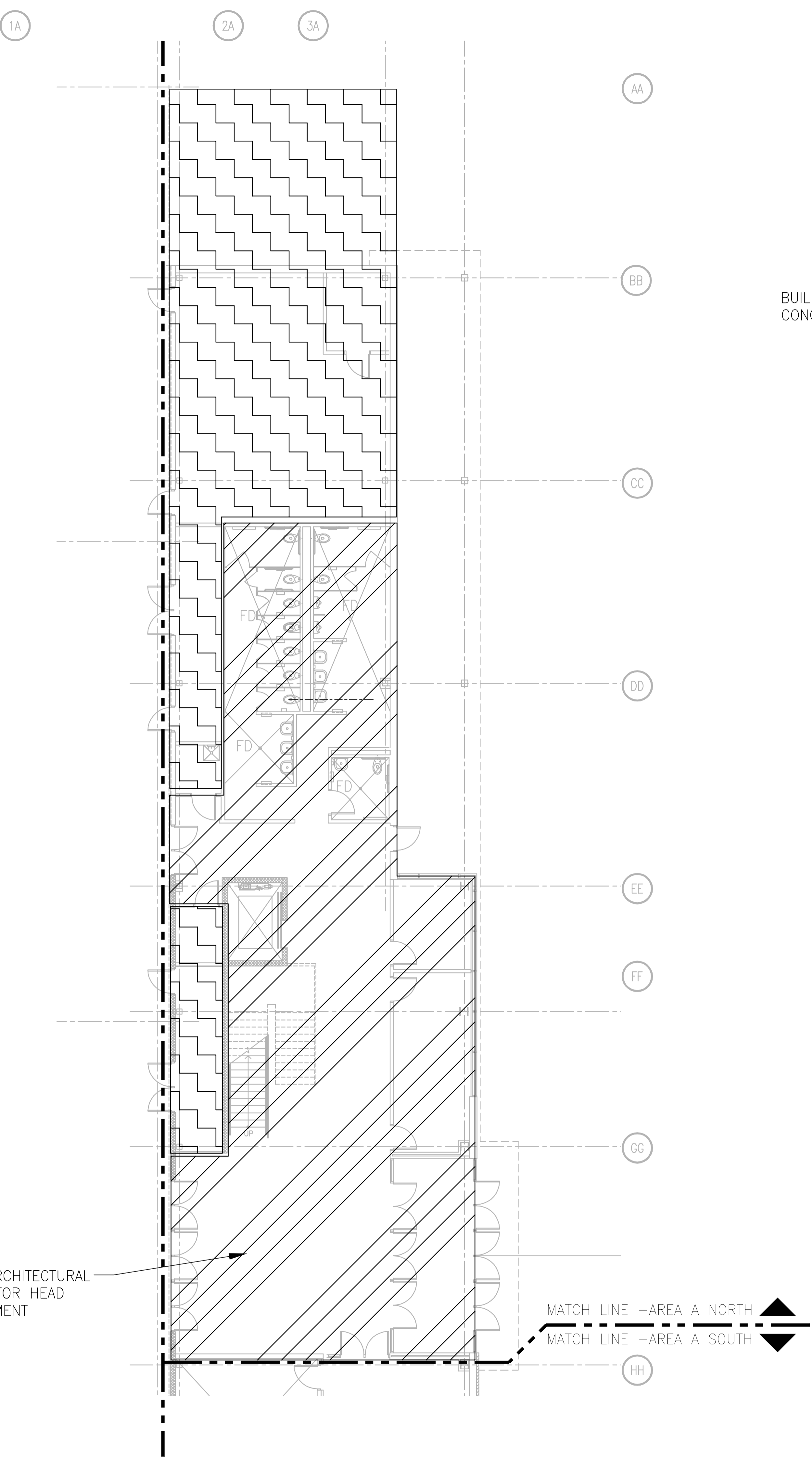
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DRAWN	DF
CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

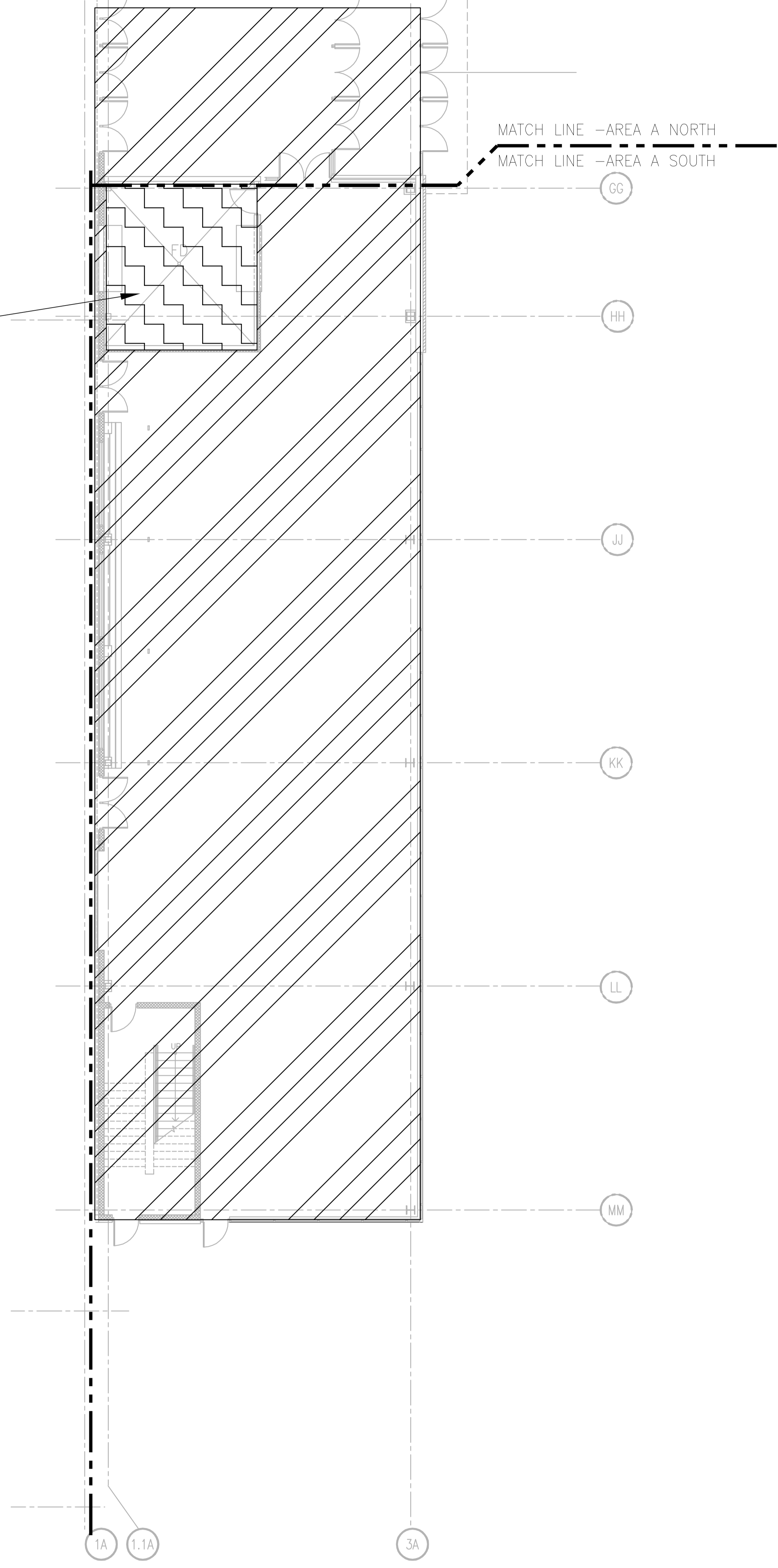
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
FIRE PROTECTION  
PLAN AREA A - BLD 1**

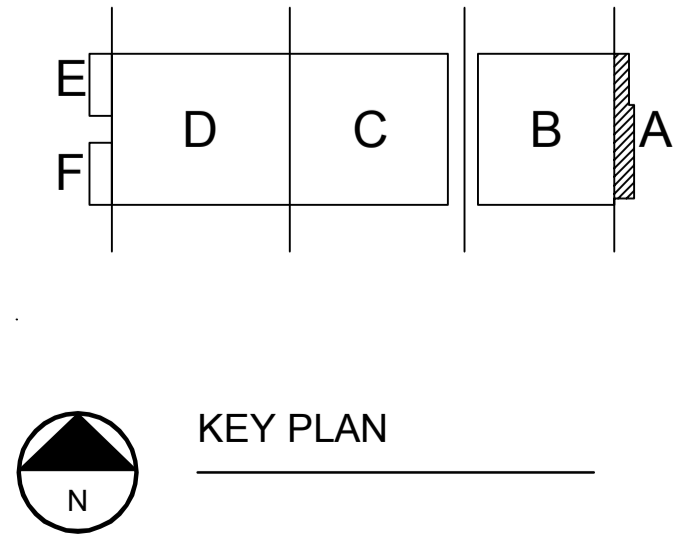
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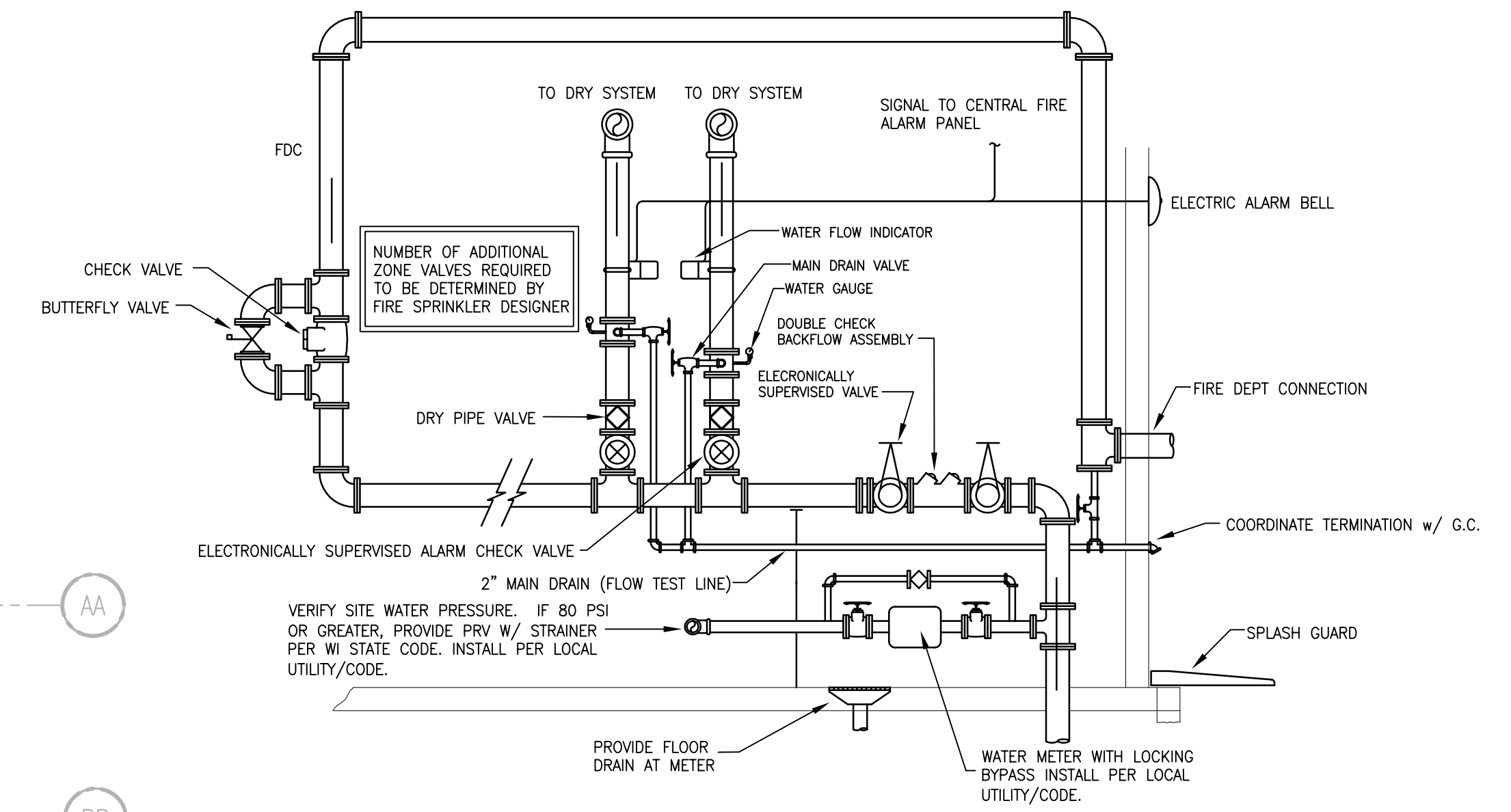
**FIRST FLOOR FIRE PROTECTION PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR FIRE PROTECTION PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"



JUSTIN BALIWES 2009-6-30 2:27 PM N:\\_2013027\_02-FP201A.DWG - ALLIANT ENERGY CENTER - LEBS0013027\_02 - AEC - LE\_HALLDRAWINGS\2013027\_02-FP201A.DWG



2 RISER DETAIL  
FP201B SCALE: NONE

**FIRE PROTECTION NOTES**

**LIGHT HAZARD FIRE PROTECTION REQUIREMENTS** [Symbol]

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

**WET PIPE SYSTEM**

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 160°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES. UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

**ORDINARY HAZARD GROUP 2 FIRE PROTECTION REQUIREMENTS** [Symbol]

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

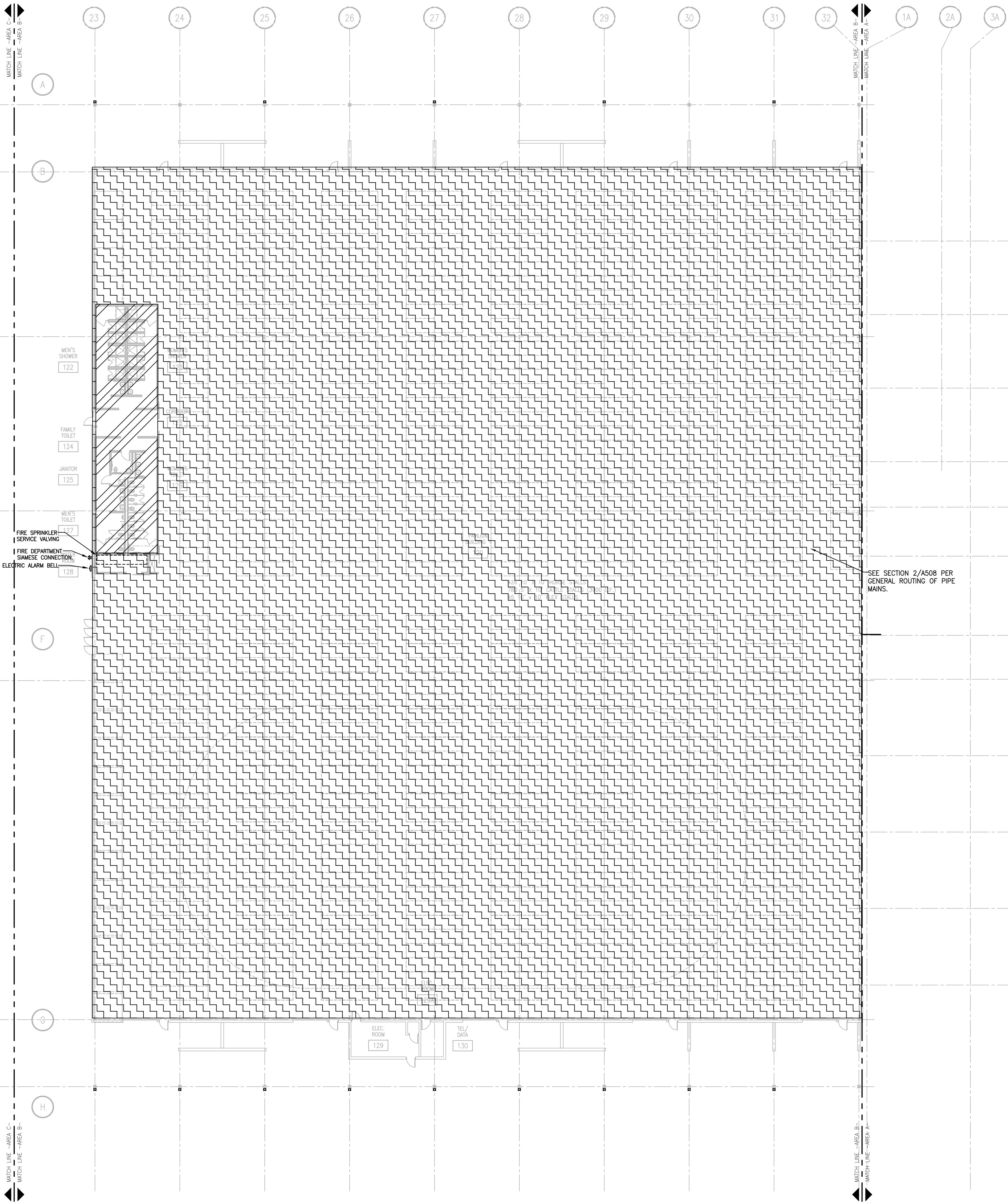
**WET PIPE SYSTEM**

1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS (MATCH EXISTING).

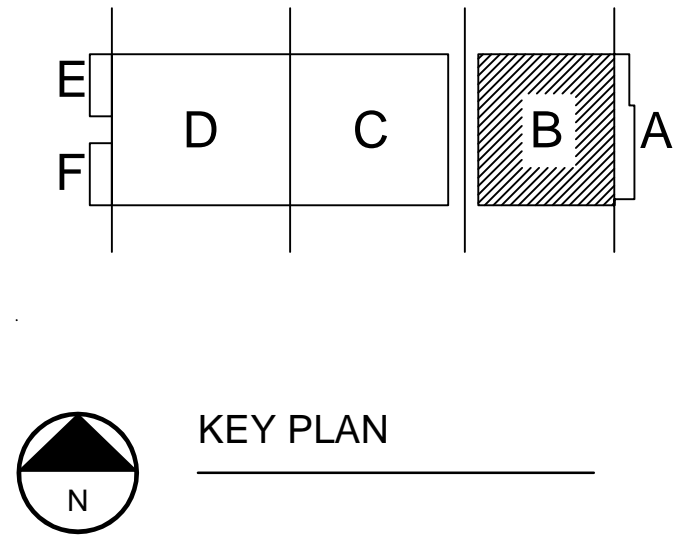
NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

SEE SECTION 2/A508 PER GENERAL ROUTING OF PIPE MAINS.



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA B  
SCALE: 1/16" = 1'-0"



DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-FP201B.DWG
REVISIONS	ADDENDUM # 3 11-18-13 CONST. SET 01-08-14
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DATE	10-29-13
PROJECT NO.	2013027_02
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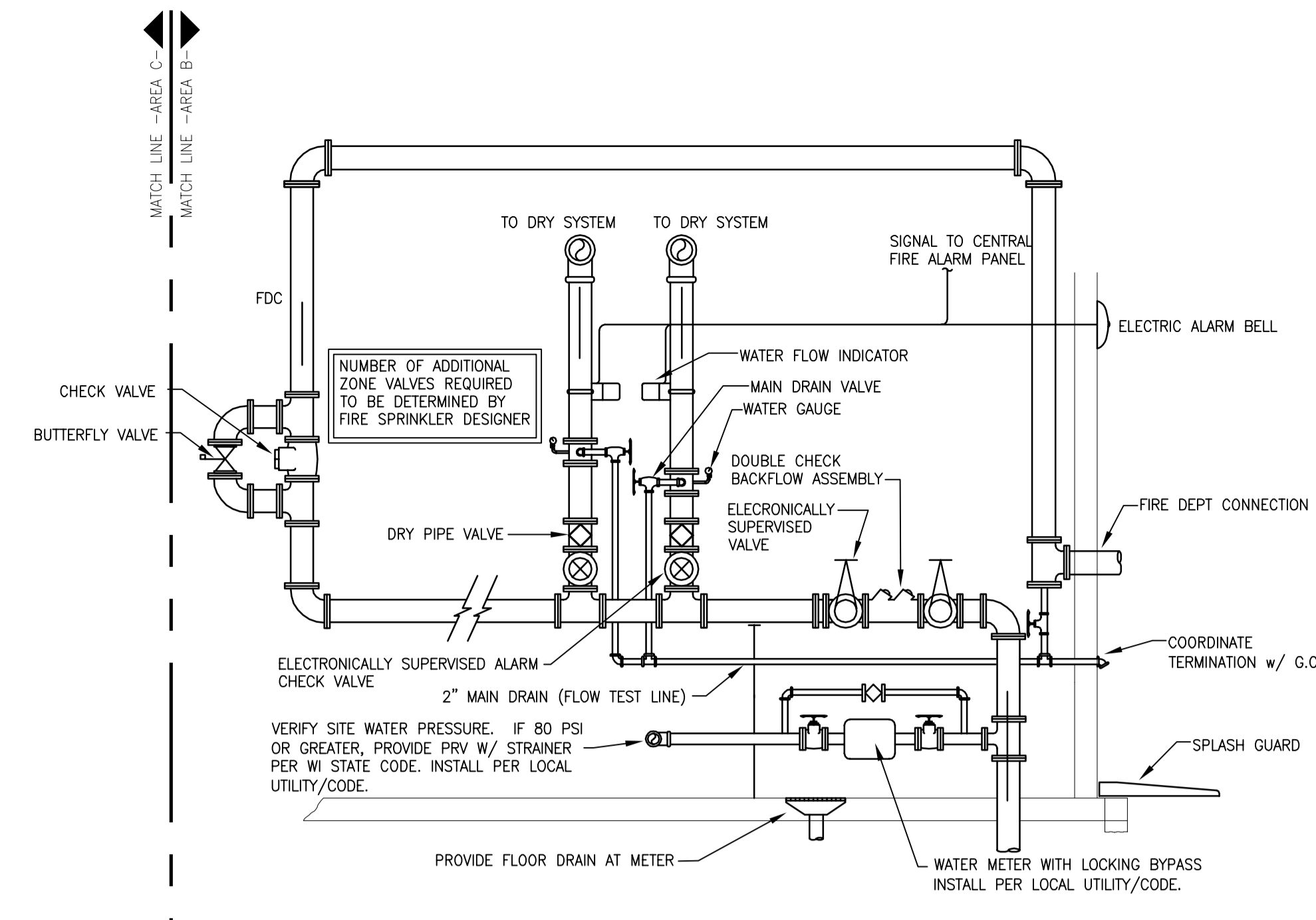
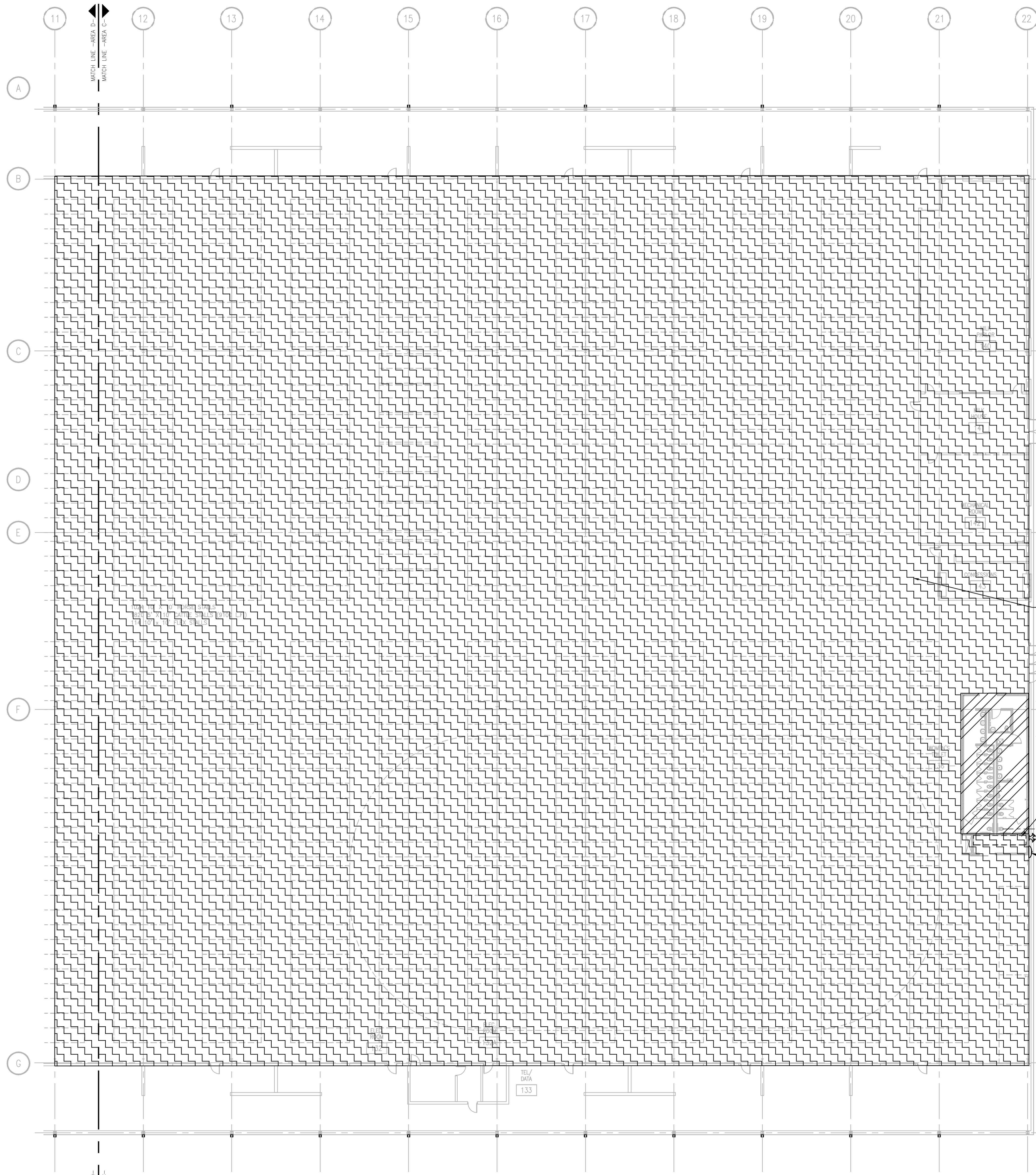
ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
FIRST FLOOR  
FIRE PROTECTION  
PLAN AREA B - BLD 1

SHEET NO.  
FP201B

JUSTIN BALLIGAS 2009-6-30 2:27 PM PL 20130270207 - ALLIANT ENERGY CENTER - LESEB0103027\_02 - MEC - LE HALLORAWNS0103027\_02.FP201B.DWG  
 2013027\_02 - FP201B  
 2013027\_02 - FP201B  
 2013027\_02 - FP201B



2 RISER DETAIL  
 FP201B SCALE: NONE

**FIRE PROTECTION NOTES**

NOTE:  
 AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

DRY PIPE SYSTEM

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A DRY PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES, UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

NOTE:  
 AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

DRY PIPE SYSTEM

1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A DRY PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

**STRANG**

ARCHITECTURE  
 ENGINEERING  
 INTERIOR DESIGN

STRANG INC.  
 6413 MINERAL POINT ROAD  
 MADISON, WI 53705-4395  
 T/ 608 276 9200  
 F/ 608 276 9204

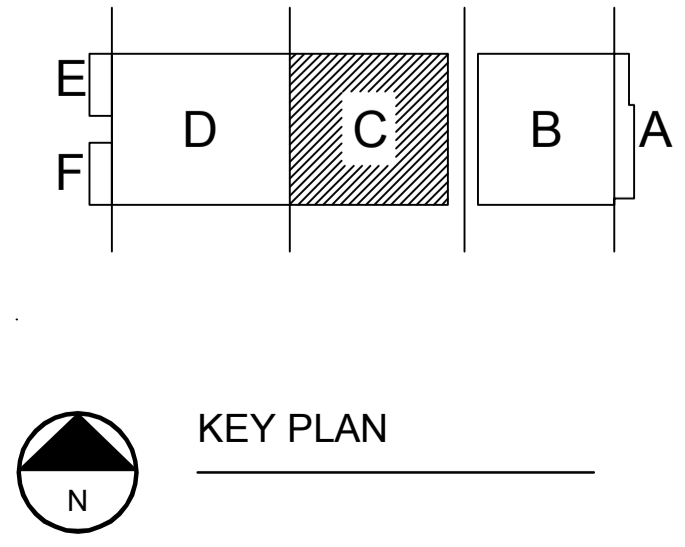
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FILE NAME	2013027_02-FP201C.DWG
REVISIONS	ADDENDUM # 3 11-18-13 CONST. SET 01-08-14
DRAWN	DF
CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
 BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
 MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
 FIRE PROTECTION  
 PLAN AREA C - BLD 2**

SHEET NO.  
**FP201C**



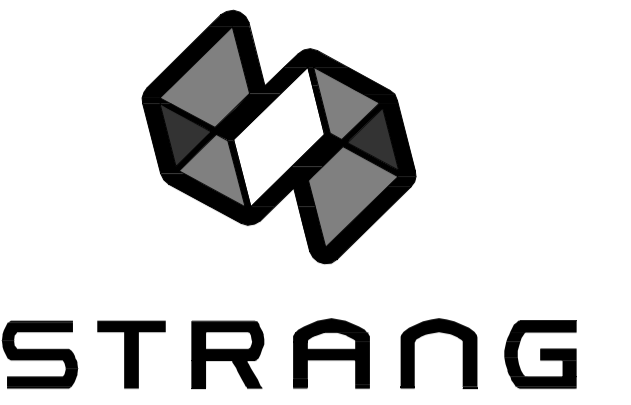
1 FIRST FLOOR FIRE PROTECTION PLAN - AREA C  
 SCALE: 1/16" = 1'-0"

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ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
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F/ 608 276 9204

**FIRE PROTECTION NOTES**

**LIGHT HAZARD  
FIRE PROTECTION REQUIREMENTS** 

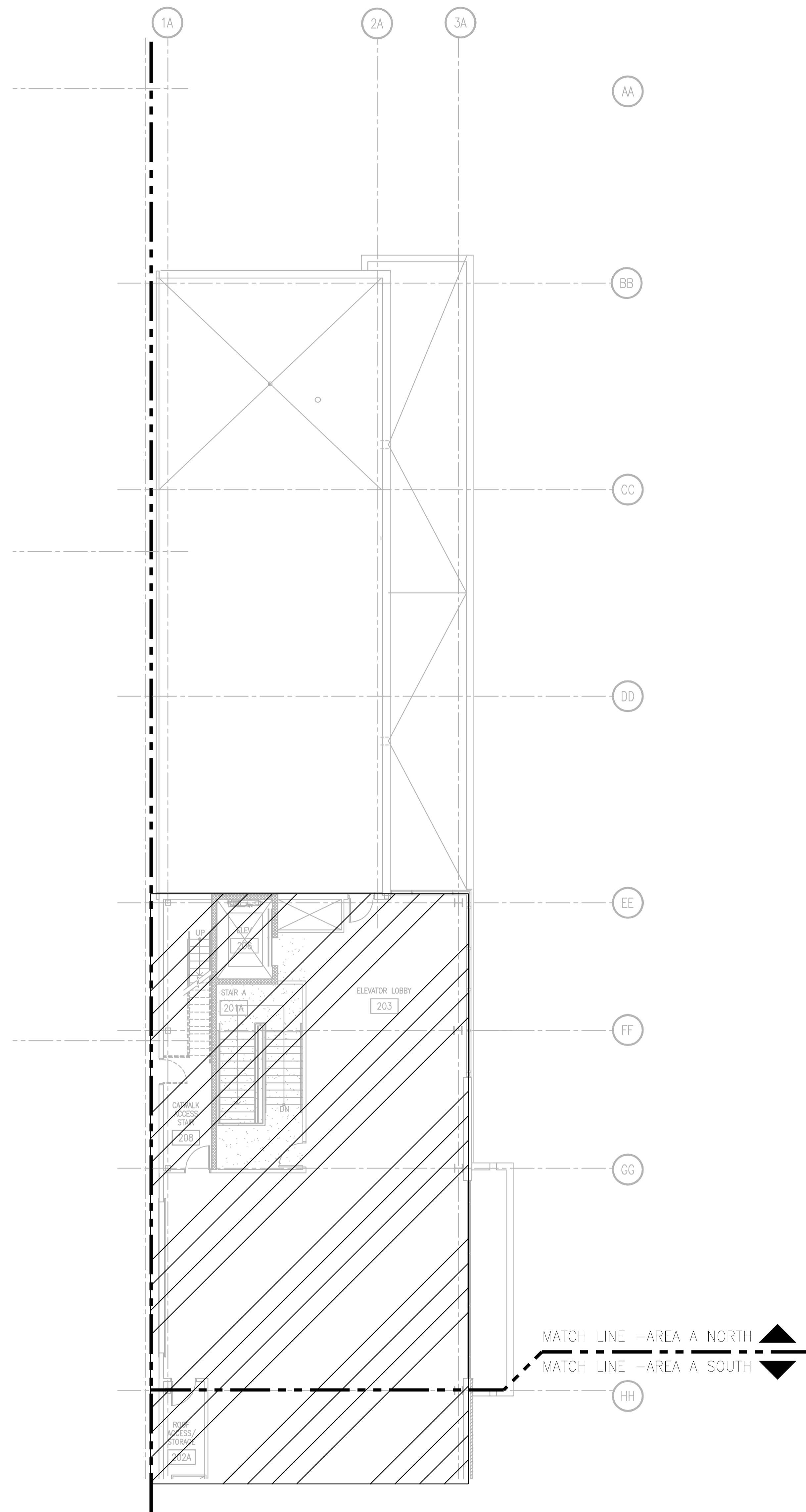
NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

**WET PIPE SYSTEM**

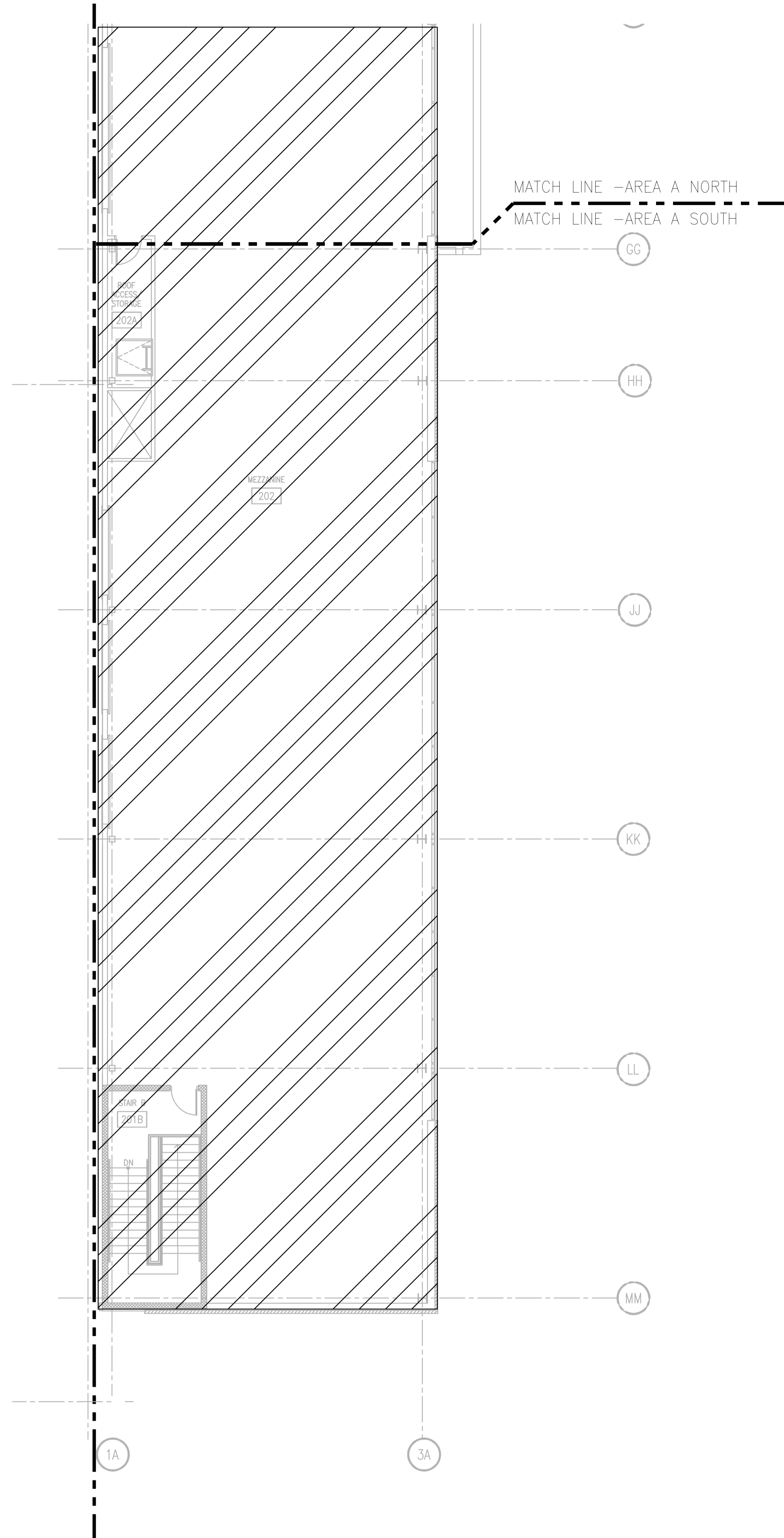
1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES, UPRIGHT BRASS IN UNFINISHED SPACES, AND FRANKED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.



MEZZANINE FIRE PROTECTION PLAN - AREA A - NORTH  
SCALE: 1/8" = 1'-0"



MEZZANINE FIRE PROTECTION PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"

DRAWING SET	CD
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FILE NAME	2013027_02-FP202A.DWG
REVISIONS	CONST. SET 01-08-14

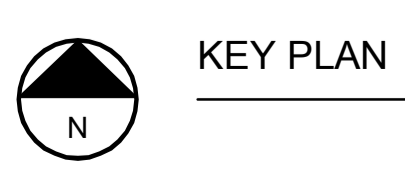
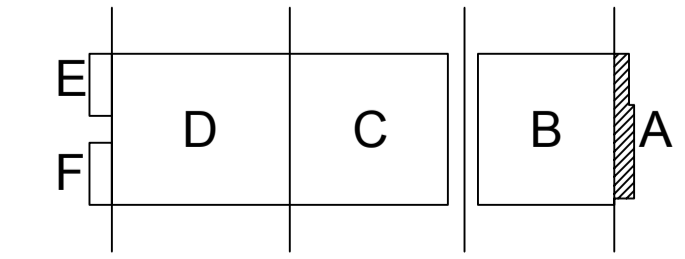
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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
MEZZANINE  
FIRE PROTECTION  
PLAN AREA A - BLD 1

SHEET NO.  
FP202A



KEY PLAN

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