



#### A

#### REQUEST FOR PROPOSALS

#### **FOR**

#### BOILER EXHAUST FAN AND DUCTWORK REPLACEMENT

AMERICAN FAMILY FIELD 1 BREWERS WAY MILWAUKEE, WISCONSIN 53214

ISSUED BY:
WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT
("DISTRICT")





#### INTRODUCTION

The Wisconsin Professional Baseball Park District ("District" or "Owner") is a special district that is a local unit of government, a body corporate and politic that is separate, distinct and independent from the state. The District is charged with the oversight and monitoring of planning, financing, designing, constructing, commissioning, operating and maintaining a major league baseball facility, American Family Field, that is the home of the Milwaukee Brewers ("Team"), in Milwaukee, Wisconsin.

The District is seeking bids from qualified contractors ("Contractor") to remove and replace the existing boiler exhaust fan and associated ductwork at American Family Field.

Work shall be in full accordance with the documents within this RFP, including any addenda and written response to questions issued and in full accordance with manufacturer's instructions. Please see **Appendix A** for detailed scope of work, including drawings and specifications.

#### **OVERVIEW**

Bids should be submitted using the Bid Forms included in this RFP. The Sigma Group will serve as Project Administrator on this project. Access to the site can be obtained through:

Shannon Schwingle, Project Administrator 414-550-9830 <a href="mailto:sschwingle@thesigmagroup.com">sschwingle@thesigmagroup.com</a>

Bids should be written to the attention of: Wisconsin Professional Baseball Park District Attn: Shannon Schwingle American Family Field 1 Brewers Way Milwaukee, WI 53214

Bids can be emailed to: <u>sschwingle@thesigmagroup.com</u>

Contractors will receive an email confirming receipt of the bid. Bids are due by <u>5:00 PM (CT) on Thursday, May 29, 2025</u>.

This RFP may be amended by the District in response to need for further clarification, specifications and/or requirement changes, new opening date, etc. Amendments will be posted on the District's website at <a href="https://www.wibaseballdistrict.com">www.wibaseballdistrict.com</a>. It is the responsibility of the bidding Contractors to check this website for any future amendments, questions, revisions, etc., prior to the opening date and return with the response. Failure to do so may result in your bid being rejected. The District reserves the right to (i) reject any and all bids for any reason or no reason at all; (ii) disregard all non-conforming, non-responsive or conditional bids; or (iii) waive any and all bid irregularities or informalities and make an award as if the irregularities or informalities did not exist. Contractors will not be compensated for any costs or expenses incurred in the preparation of their bid.





Any and all questions related to this RFP must be submitted in writing no later than 5:00 pm (CT) on Wednesday, May 14, 2025, to the Project Administrator, Shannon Schwingle, at sschwingle@thesigmagroup.com.

Responses to questions will be posted on the District's website (<u>www.wibaseballdistrict.com</u>) no later than 5:00 pm (CT) on May 16, 2025. Please check the website periodically since a preliminary response to questions may be posted sooner than May 16, 2025.

A copy of the Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract is included in **Appendix B**. A contract with these terms and conditions will be presented to the selected Contractor for signature. Bidding Contractors are required to return any exceptions to these standard Terms and Conditions with their bid. Any exceptions to contract terms will be taken into consideration when bids are reviewed.

#### PREBID SITE VISIT

While the District has provided certain drawings as part of this RFP, they should not be relied upon for completeness. Bidding Contractors are authorized to visit the site and observe and measure all areas as part of this bid. Email the Project Administrator, Shannon Schwingle, at <a href="mailto:sschwingle@thesigmagroup.com">sschwingle@thesigmagroup.com</a> to schedule site access.

#### SCOPE OF WORK

See **Appendix A** for drawings and specifications. All work and materials shall conform in every detail to the scope, drawings and specifications. If there is a conflict within or between the any of the RFP documents involving an obligation, a duty, or the quality or quantity of Work required, then the document imposing the most stringent obligation or duty and the highest quality or greatest quantity shall control. All quantities are to be field measured and verified by the bidding Contractor.

#### **SCHEDULE**

| Milestone   | Date                 |
|---|----------------------|
| RFP questions due   | May 14, 2025         |
| RFP response to questions posted                                  | May 16, 2025         |
| RFP bids due  | May 29, 2025         |
| Contract awarded to selected Contractor *                         | Week of June 2, 2025 |
| Substantial completion, including all testing and commissioning** | August 31, 2025      |

<sup>\*</sup> A copy of the Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract is included in **Appendix B**.

#### **ACCURACY**

This RFP may include errors, omissions, or deficiencies, and the accuracy and completeness of this document and related documents are not guaranteed. In the event such errors, omissions, or

<sup>\*\*</sup> Work must be coordinated around events at the ballpark. The 2025 Milwaukee Brewers Baseball Schedule is included in **Appendix C**.





deficiencies are discovered by the Contractor, the Contractor shall promptly notify the District in writing within seventy-two (72) hours of discovery. The Contractor shall abide by and comply with the true intent and meaning of the requirements as stated herein and shall not avail itself of any apparent error or omission, should any exist. Further, by submitting a Bid, Contractor warrants that all items to be supplied under any resultant contract shall, unless otherwise agreed by the Owner, meet the performance requirements set forth in this RFP.

#### PERMITS AND REGULATIONS

Bidder shall include in their bid all costs necessary to comply with all applicable laws, ordinances, rules and regulations. All work for the project must be performed in accordance with all federal, state, and local laws, ordinances, and rules and regulations relating to the work. Where the bid documents exceed these requirements, the bid documents shall govern. In no case shall work be installed contrary to or below the minimum legal standards.

#### BIDDING CONTRACTOR'S REPRESENTATION

By submitting a bid, each Contractor certifies that it has examined and fully comprehends the requirements and intent of this RFP. By submitting a bid, each Contractor further certifies that, prior to submitting its bid, it has visited the site and examined all conditions affecting the Work and proposes to furnish all labor, materials, equipment and supplies necessary for, or incidental to, the proper execution of the Work.

#### **CONDITIONS OF WORK**

Access to American Family Field will be subject to standard building access regulations in place at that time. The selected Contractor will be provided with parking at American Family Field.

#### PROTECTION OF WORK AND PROPERTY

Contractor shall continuously maintain adequate protection of all work from damage and shall protect Owner from injury or loss arising in connection with the Contract. Contractor shall make good any such damage, injury, or loss and shall adequately protect adjacent property.

Contractor shall take all necessary precautions for the safety of employees on the project, and shall comply with all applicable provisions of federal, state, and local safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the work is being performed. Contractor shall erect, and properly maintain at all times as required by the conditions and progress of the work, all necessary safeguards for the protection of workers and the public and shall post danger signs warning against, without limitation, hazards created by such features of construction as protruding nails, hoists, scaffolding, and falling materials. Contractor shall provide and maintain flags, danger signs, barricades, rails, etc., as required to for safety. Job site safety is the sole responsibility of the Contractor.

#### **DIVERSE FIRM PARTICIPATION**

The District has a goal to achieve 15% participation by Diverse Firms as outlined in the 06/09/2020 Diversity Contracting Program. A copy can be found in **Appendix D** and on the Project Participation Committee tab on the Wisconsin Professional Baseball Park District website (www.wibaseballdistrict.com). Bidders must review and complete the form(s) as appropriate and submit with their bid documents. Failure to do so may result in your response being rejected.





#### **WARRANTY**

#### **Contractor Warranty**

In addition to all applicable manufacturer warranties, Contractor shall supply the Owner with a workmanship warranty that is in effect for a period of one (1) year from the substantial completion date. In the event any work related to the scope of work is found to be defective or otherwise not in accordance with Contract documents within the Contractor warranty term, the Contractor shall repair that defect at no cost to the Owner and within a manor deemed acceptable by the Owner.

A version of this Contractor Warranty shall be provided to the Owner as part of this bid process.

#### **TAXES**

This project is Sales & Use Tax Exempt (CES Number 008-0000051268-04). A Wisconsin Sales and Use Tax Exemption Certificate will be provided to the selected Contractor.

#### **CLOSEOUT REQUIREMENTS**

The selected Contractor shall submit the following to the Project Administrator as part of project closeout, in addition to completing the closeout items as listed in the specifications. The Project Administrator must approve these items prior to recommending final payment to the District.

- 1. Final conditional lien waiver
- 2. As-built drawings
- 3. O&M manuals
- 4. Contractor's labor warranty
- 5. Manufacturer's warranty
- 6. Completion of all punch-list items

#### **APPENDICES**

- A. Scope of Work
- B. Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract
- C. Current 2025 Milwaukee Brewers game schedule
- D. Diversity Contracting Program





This bid form must be signed by a person authorized to legally bind the Contractor. By submitting this bid, the Contractor agrees that the fixed price contained herein shall remain firm for a period of 30 days from the due date of this RFP.

**RID FORMS** 

|                                | DID I GIUIIS   |   |
|--------------------------------|--|---|
| NAME OF COMPANY                |  | (Affix Corporate<br>Seal if Applicable) |
| STREET ADDRESS                 |  |   |
| CITY STATE ZIP CODE            |  |   |
| TELEPHONE NUMBER               |  | -                                       |
| E-MAIL ADDRESS                 |  |   |
| SIGNATURE                      |  |   |
| TYPE NAME AND TITLE            |  |   |
| DATE                           |  | -                                       |
| I. LUMP SUM BASE B REPLACEMENT | ID 1 – BOILER EXHAUST FAN AND DU   | JCTWORK                                 |
| provide all necessary labor, m | g Documents, Conditions, General Requirem aterials, tools, equipment, supplies, and supe the removal and replacement of the boiler excan Family Field. | rvision necessary to                    |
| Lump Sum                       |  |   |
| Amount \$                      | Dollars \$   |   |
| (Words) U.                     | S. Funds (Figures) U   | J.S. Funds                              |





#### II. <u>DIVERSE FIRM PARTICIPATION FORM(S)</u>

Attach a completed "Diverse Firm Utilization Plan" or, if necessary, the "Exemption Certification" and "Certification of Good Faith Effort" to this bid form. Forms can be found in **Appendix D**.

| Signature                         |   | •               |
|-----------------------------------|---|-----------------|
| Title                             |   | <u>.</u>        |
| III. <u>ADDENDUM(S) RECEIVE</u>   | <u>ED</u>   |                 |
| Acknowledge receipt of each Adder | ndum issued for this RFP.   |                 |
| Addendum(s) Received (insert #s)  |   | -               |
| Signature                         |   | -               |
| Title                             |   | -               |
| Acknowledge receipt AND accept    | TO CONTRUCTION SERVICES CONTRAC<br>tance of the General Conditions to Constru<br>exceptions attached hereto. Any exceptions to<br>en bids are reviewed. | action Services |
| Signature                         |   |                 |
| Title                             |   | <u>-</u>        |
| V. <u>SAMPLE ONE YEAR WOI</u>     | RKMANSHIPH WARRANTY   |                 |
| Contractors sample one year workm | nanship warranty is attached to this bid.   |                 |
| Signature                         |   | -               |
| Title                             |   |                 |





#### **APPENDIX A**

Scope of Work

# AMERICAN FAMILY FIELD BOILER EXHAUST FAN REPLACEMENT

# WISCONSIN PROFESSIONAL **BASEBALL PARK DISTRICT**

ONE BREWERS WAY, MILWAUKEE, WI 53214



# **GENERAL NOTES**

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS AND EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS TO ENGINEER BEFORE PROCEEDING.
- CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK REQUIRED TO COMPLETE THE INTENDED SCOPE OF WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT. REMOVE ALL EXISTING CONDUIT & APPURTENANCES THAT ARE ABANDONED OR NOT TO BE USED.
- CONTRACTOR SHALL VERIFY LOCATION AND SIZES OF EXISTING EQUIPMENT, CONDUIT, ETC. IN FIELD.
- 4. ELECTRICAL CONTRACTOR TO DISCONNECT POWER, REMOVE UNUSED POWER WIRING, CONDUITS, ACCESSORIES, ETC. TO EXISTING EQUIPMENT THAT IS TO BE REMOVED BACK TO SERVICE PANEL.
- CLOSE ALL UNUSED PIPE CONDUIT IN WALLS AND FLOORS TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING AND FINISH.
- 6. THIS CONTRACTOR SHALL REMOVE ALL DEBRIS RESULTING FROM DEMOLITION AND INSTALLATION OF NEW WORK. THE WORK AREAS SHALL BE KEPT CLEAN AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- 7. IF HAZARDOUS MATERIALS ARE IN ANY WAY SUSPECTED, INCLUDING BUT NOT LIMITED TO ASBESTOS, POLLUTANTS OR PCB, INFORM THE OWNER IMMEDIATELY AND SUSPEND PROGRESS ON THAT PORTION OF WORK.
- 8. WHERE CONDUIT IS DEMOLISHED, ALSO DEMOLISH ALL HANGERS AND ACCESSORIES UNLESS OTHERWISE CALLED OUT TO BE SAVED OR REINSTALLED.
- 9. WHILE DEMOLITION DRAWINGS INDICATE SPECIFIC CONTROL DEVICES TO BE REMOVED, REUSED OR REPLACED, CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS BEFORE DEMOLITION IS PERFORMED. CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL CONTROL SYSTEM AS SPECIFIED.

# **DESIGN TEAM**

MECHANICAL AND ELECTRICAL:

GRUMMAN | BUTKUS ASSOCIATES 1011 N. MAYFAIR ROAD, SUITE 300 WAUWATOSA, WI. 53226 414-476-8980 CONTACT: BOB BAYNE

# **DRAWING LIST**

TITLE SHEET AND PROJECT NOTES

MECHANICAL SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS DUCTWORK SERVICE LEVEL - DEMOLITION

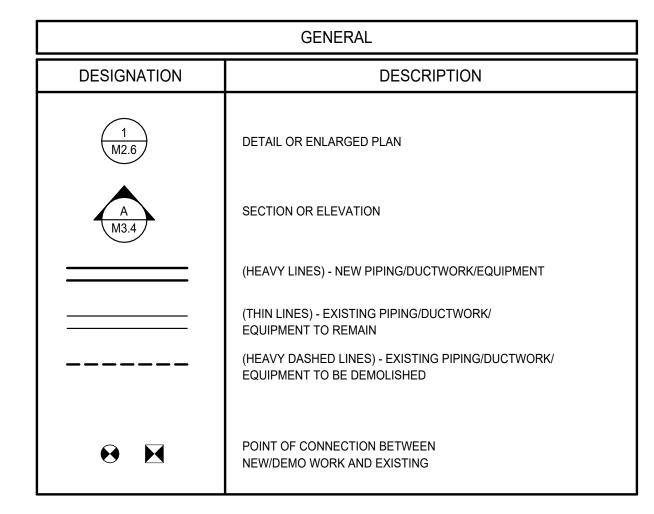
DUCTWORK SERVICE LEVEL - NEW WORK

DUCTWORK SECTIONS

ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS ELECTRICAL SPECIFICATIONS

PARTIAL SERVICE LEVEL - POWER DEMOLITION PARTIAL SERVICE LEVEL - POWER NEW WORK

MOTOR CONTROL CENTER ELEVATIONS ELECTRICAL SCHEDULES



|    | GENERAL PROJECT NOTES   |
|----|---|
| 1. | MECHANICAL CONTRACTOR SHALL REFER TO DIVISION 20 AND 23 SPECIFICATIONS. |

| ABV ABOVE ADJ ADJUSTABLE AFF ABOVE FINISHED FLOOR BAS BUILDING AUTOMATION SYSTEM BDD BACKDRAFT DAMPER BHP BRAKE HORSEPOWER BTU BRITISH THERMAL UNIT CFM CUBIC FEET PER MINUTE CHWR CHILLED WATER RETURN CHWS CHILLED WATER RETURN CONC CONCRETE CSFD COMBINATION SMOKE/FIRE DAMPER DB DRY BULB DDC DIRECT DIGITAL CONTROL DIA DIAMETER DWG DRAWING EL ELEVATION ELEC ELECTRICAL EQ EQUIPMENT EXH EXHAUST FD FIRE DAMPER FLA FULL LOAD AMPS FLR FLOOR FOB FLAT ON BOTTOM FOT FLAT ON TOP FPM FEET PER MINUTE GWR GALLONS PER MINUTE GWR GLYCOL WATER SUPPLY HP HORSEPOWER    |  |
|---|--|
| AFF ABOVE FINISHED FLOOR  BAS BUILDING AUTOMATION SYSTEM  BDD BACKDRAFT DAMPER  BHP BRAKE HORSEPOWER  BTU BRITISH THERMAL UNIT  CFM CUBIC FEET PER MINUTE  CHWR CHILLED WATER RETURN  CHWS CHILLED WATER SUPPLY  CLG CEILING  CONC CONCRETE  CSFD COMBINATION SMOKE/FIRE DAMPER  DB DRY BULB  DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  GWR GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS  GLYCOL WATER RETURN  GWR GLYCOL WATER RETURN  GWS  GLYCOL WATER RETURN  GWS  GLYCOL WATER RETURN  GWS  GLYCOL WATER RETURN |  |
| BAS BUILDING AUTOMATION SYSTEM BDD BACKDRAFT DAMPER BHP BRAKE HORSEPOWER BTU BRITISH THERMAL UNIT CFM CUBIC FEET PER MINUTE CHWR CHILLED WATER RETURN CHWS CHILLED WATER SUPPLY CLG CEILING CONC CONCRETE CSFD COMBINATION SMOKE/FIRE DAMPER DB DC DIRECT DIGITAL CONTROL DIA DIAMETER DWG DRAWING EL ELEVATION ELEC ELECTRICAL EQ EQUIPMENT EXH EXHAUST FD FIRE DAMPER FLA FULL LOAD AMPS FLR FLOOR FOB FLAT ON BOTTOM FOT FIAT ON TOP FPM FEET PER MINUTE FPV FAN POWERED VARIABLE AIR VOLUME FT FEET OR FOOT GA GAL GALLONS PER MINUTE GWR GWR GLYCOL WATER RETURN GWS GLYCOL WATER RETURN GWS GLYCOL WATER SUPPLY   |  |
| BHP BRAKE HORSEPOWER BTU BRITISH THERMAL UNIT  CFM CUBIC FEET PER MINUTE  CHWR CHILLED WATER RETURN  CHWS CHILLED WATER SUPPLY  CLG CEILING  CONC CONCRETE  CONC CONCRETE  DB DRY BULB  DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GAL GALLONS  GWR GLYCOL WATER SUPPLY  |  |
| BTU BRITISH THERMAL UNIT  CFM CUBIC FEET PER MINUTE  CHWR CHILLED WATER RETURN  CHWS CHILLED WATER SUPPLY  CLG CEILING  CONC CONCRETE  CSFD COMBINATION SMOKE/FIRE DAMPER  DB DRY BULB  DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GWR GLYCOL WATER SUPPLY  |  |
| CFM CUBIC FEET PER MINUTE  CHWR CHILLED WATER RETURN  CHWS CHILLED WATER SUPPLY  CLG CEILING  CONC CONCRETE  CSFD COMBINATION SMOKE/FIRE DAMPER  DB DRY BULB  DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GWR GLYCOL WATER SUPPLY  |  |
| CHWR CHILED WATER RETURN CHWS CHILLED WATER SUPPLY CLG CEILING CONC CONCRETE COSFD COMBINATION SMOKE/FIRE DAMPER DB DRY BULB DDC DIRECT DIGITAL CONTROL DIA DIAMETER DWG DRAWING EL ELECATION ELEC ELECTRICAL EQ EQUIPMENT EXH EXHAUST FD FIRE DAMPER FLA FULL LOAD AMPS FLR FLA FULL LOAD AMPS FLR FOB FLAT ON BOTTOM FOT FPM FEET PER MINUTE FPV FAN POWERED VARIABLE AIR VOLUME FT FEET OR FOOT GA GAUGE GAL GALLONS PER MINUTE GWR GLYCOL WATER RETURN GWS GLYCOL WATER RETURN GWS GLYCOL WATER SUPPLY  |  |
| CLG CEILING CONC CONCRETE CSFD COMBINATION SMOKE/FIRE DAMPER  DB DRY BULB DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS GPM GALLONS PER MINUTE  GWR GLYCOL WATER SUPPLY   |  |
| CONC CONCRETE CSFD COMBINATION SMOKE/FIRE DAMPER  DB DRY BULB DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING EL ELEVATION ELEC ELECTRICAL EQ EQUIPMENT EXH EXHAUST FD FIRE DAMPER FLA FULL LOAD AMPS FLR FLOOR FOB FLAT ON BOTTOM FOT FPM FEET PER MINUTE FPV FAN POWERED VARIABLE AIR VOLUME FT FEET OR FOOT GA GAL GALLONS GPM GALLONS PER MINUTE GWR GLYCOL WATER SUPPLY  |  |
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| DDC DIRECT DIGITAL CONTROL  DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWS GLYCOL WATER RETURN  GWS  GLYCOL WATER SUPPLY  |  |
| DIA DIAMETER  DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWS GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY   |  |
| DWG DRAWING  EL ELEVATION  ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY   |  |
| ELEC ELECTRICAL  EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWS GLYCOL WATER SUPPLY   |  |
| EQ EQUIPMENT  EXH EXHAUST  FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWS GLYCOL WATER SUPPLY  |  |
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| FD FIRE DAMPER  FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWS GLYCOL WATER SUPPLY   |  |
| FLA FULL LOAD AMPS  FLR FLOOR  FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY  |  |
| FOB FLAT ON BOTTOM  FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY   |  |
| FOT FLAT ON TOP  FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY   |  |
| FPM FEET PER MINUTE  FPV FAN POWERED VARIABLE AIR VOLUME  FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY  |  |
| FT FEET OR FOOT  GA GAUGE  GAL GALLONS  GPM GALLONS PER MINUTE  GWR GLYCOL WATER RETURN  GWS GLYCOL WATER SUPPLY  |  |
| GA GAUGE GAL GALLONS GPM GALLONS PER MINUTE GWR GLYCOL WATER RETURN GWS GLYCOL WATER SUPPLY   |  |
| GAL GALLONS GPM GALLONS PER MINUTE GWR GLYCOL WATER RETURN GWS GLYCOL WATER SUPPLY  |  |
| GPM GALLONS PER MINUTE GWR GLYCOL WATER RETURN GWS GLYCOL WATER SUPPLY  |  |
| GWS GLYCOL WATER SUPPLY   |  |
|   |  |
| nP HORSEPOWER   |  |
| HTG HEATING   |  |
| HVAC HEATING VENTILATING AND AIR CONDITIONING   |  |
| HWR HOT WATER RETURN  |  |
| HWS HOT WATER SUPPLY  ID INSIDE DIAMETER  |  |
| KW KILOWATT   |  |
| LCP LOCAL CONTROL PANEL   |  |
| LRA LOCK ROTOR AMPS  MAT  MIXED AIR TEMPERATURE   |  |
| MAT MIXED AIR TEMPERATURE  MAX MAXIMUM  |  |
| MCC MOTOR CONTROL CENTER  |  |
| MHP MOTOR HORSEPOWER  |  |
| MIN MINIMUM  MOD MOTOR OPERATED DAMPER  |  |
| NC NORMALLY CLOSED  |  |
| NIC NOT IN CONTRACT   |  |
| NO NORMALLY OPEN  |  |
| NTS NOT TO SCALE  OA OUTDOOR AIR  |  |
| OD OUTSIDE DIAMETER   |  |
| PSI(G) POUNDS PER SQUARE INCH (GAUGE)   |  |
| RH RELATIVE HUMIDITY  PEW PEVOLUTIONS PER MINISTE   |  |
| RPM REVOLUTIONS PER MINUTE  SD SMOKE DAMPER   |  |
| SQ SQUARE   |  |
| TP TOTAL PRESSURE   |  |
| TYP TYPICAL  UNO UNLESS NOTED OTHERWISE   |  |
| VAV VARIABLE AIR VOLUME   |  |
| VD VOLUME DAMPER  |  |
| VSC VARIABLE SPEED CONTROLLER   |  |
| WB WET BULB W/ WITH   |  |
| W/O WITHOUT   |  |
| WG WATER GAUGE  |  |

**ABBREVIATIONS** 

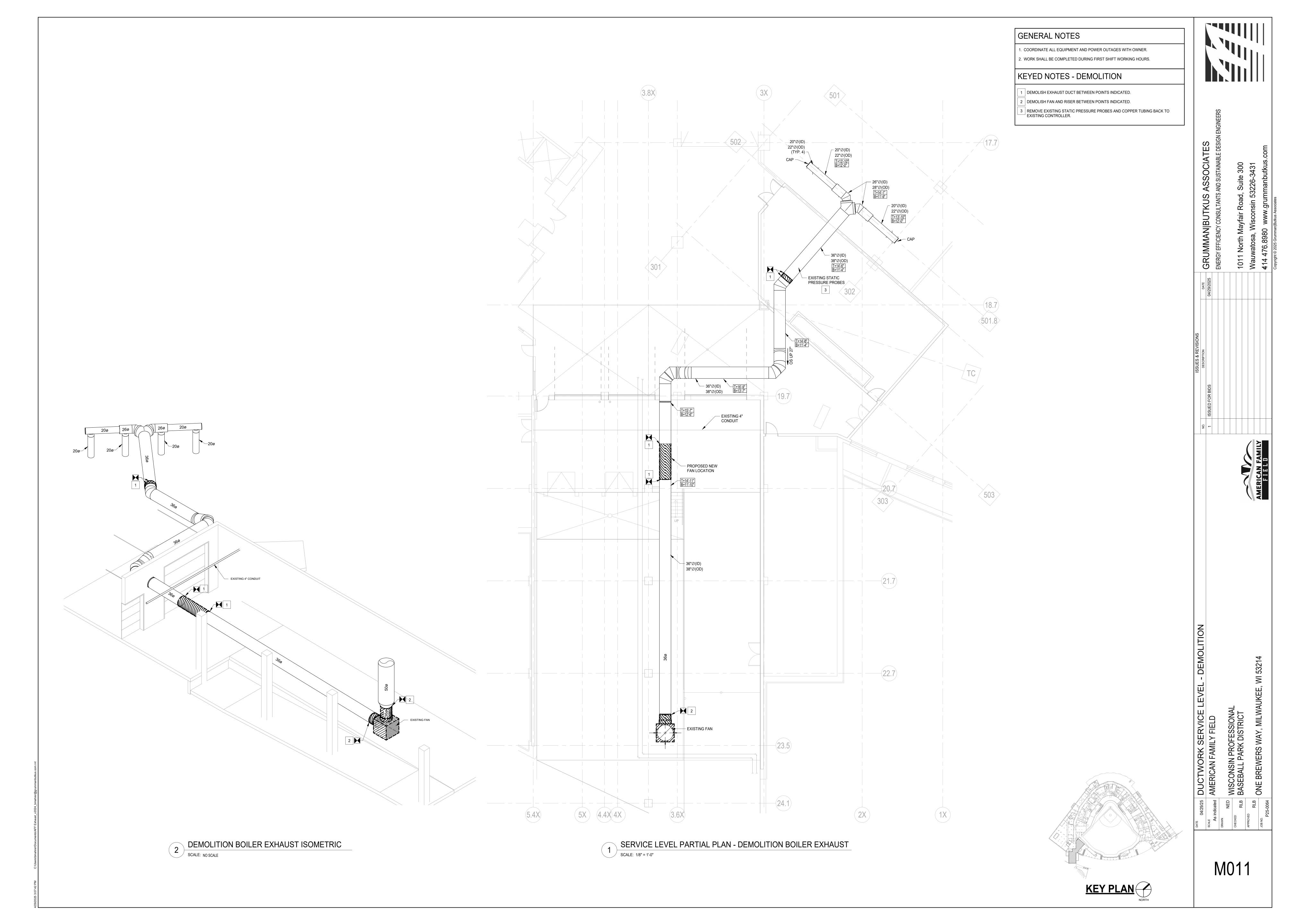
|  | E FOR USE IN SCREWED PIPING SYSTEMS UNO. REFER TO PING SYSTEM REQUIREMENTS (SCREWED VS. FLANGED VS. |
|--|---|
| DESIGNATION  | DESCRIPTION   |
|  | CAP   |
| <del></del>  | CONNECTION, BOTTOM  |
| <del></del> -  | CONNECTION, TOP   |
| f <sup>+</sup>   | ELBOW, 90°  |
| ·  | ELBOW TURNED UP   |
| G+   | ELBOW TURNED DOWN   |
| 4 <b>f</b>   | ELBOW, REDUCING (SHOW SIZES)  |
| <b>₹</b> %   | ELBOW, LONG RADIUS  |
| <b>⊙</b> +-<br>†   | ELBOW, SIDE OUTLET, OUTLET UP   |
| ø+<br>+  | ELBOW, SIDE OUTLET, OUTLET DOWN   |
| *  | LATERAL BRANCH  |
| _ <del></del>  | REDUCER, CONCENTRIC   |
| $\rightarrow \!$ | INCREASER, CONCENTRIC   |
| <b>—&gt;</b>   | REDUCER, ECCENTRIC STRAIGHT INVERT  |
|  | REDUCER, ECCENTRIC STRAIGHT CROWN   |
| <del>'  </del>   | TEE   |
| <del></del>  | TEE, OUTLET UP  |
| <del></del>  | TEE, OUTLET DOWN  |
| 6 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | TEE, REDUCING (SHOW SIZES)  |
| <del></del>  | TEE, SIDE OUTLET, OUTLET UP   |
| <del>-+   -</del>  | TEE, SIDE OUTLET, OUTLET DOWN   |
| <b>⊣</b>  ́—   | UNION, SCREWED  |
| R  | PITCH OF PIPE - RISE (R), DROP (D)  |

| EQUIPMENT TAGS |  |  |  |  |  |
|----------------|--|--|--|--|--|
| DESIGNATION    | DESCRIPTION  B DESIGNATION NUMBER        |  |  |  |  |
| ACCU           | AIR COOLED CONDENSING UNIT               |  |  |  |  |
| В              | BOILER                                   |  |  |  |  |
| CC             | CHILLED WATER COOLING COIL               |  |  |  |  |
| CD             | CEILING DIFFUSER                         |  |  |  |  |
| CED            | CRITICAL ENVIRONMENT DIFFUSER            |  |  |  |  |
| СН             | CHILLER                                  |  |  |  |  |
| СТ             | COOLING TOWER                            |  |  |  |  |
| CUH            | CABINET UNIT HEATER                      |  |  |  |  |
| CV             | CONTROL VALVE                            |  |  |  |  |
| EF             | EXHAUST FAN                              |  |  |  |  |
| EG             | EXHAUST GRILLE                           |  |  |  |  |
| EV             | EXHAUST AIR VALVE                        |  |  |  |  |
| FCU            | FAN COIL UNIT                            |  |  |  |  |
| FIL            | FILTER                                   |  |  |  |  |
| FPV            | FAN POWERED VARIABLE AIR VOLUME TERMINAL |  |  |  |  |
| HC             | HEATING COIL                             |  |  |  |  |
| HUM            | HUMIDIFIER                               |  |  |  |  |
| Р              | PUMP                                     |  |  |  |  |
| RG             | RETURN GRILLE                            |  |  |  |  |
| RF             | RETURN FAN                               |  |  |  |  |
| RV             | RETURN AIR VALVE                         |  |  |  |  |
| SF             | SUPPLY FAN                               |  |  |  |  |
| SV             | SUPPLY AIR VALVE                         |  |  |  |  |
| Т              | TANK                                     |  |  |  |  |
| VAV            | VARIABLE AIR VOLUME TERMINAL             |  |  |  |  |

| ] |                                    | DUCTWORK SYMBOLS   |
|---|------------------------------------|--|
|   | DESIGNATION                        | DESCRIPTION  |
|   | AD 10x10  AD 10x10                 | ACCESS DOOR OR PANEL, VERTICAL OR HORIZONTAL               |
|   | UP _                               | DUCT OFFSET (DOWN) IN DIRECTION OF FLOW                    |
|   |                                    | DUCT OFFSET (UP) IN DIRECTION OF FLOW                      |
|   |                                    | RECTANGULAR SUPPLY DUCT ELBOW TURNED DOWN                  |
|   |                                    | RECTANGULAR SUPPLY DUCT ELBOW TURNED UP                    |
|   | <b>₹</b>                           | RECTANGULAR EXHAUST/RETURN DUCT ELBOW<br>TURNED DOWN       |
|   |                                    | RECTANGULAR EXHAUST/RETURN DUCT ELBOW<br>TURNED UP         |
|   | ਹਿ ⊶                               | ROUND SUPPLY DUCT ELBOW TURNED DOWN                        |
|   | EI⊗ ≻─⊗                            | ROUND SUPPLU DUCT ELBOW TURNED UP                          |
|   | <b>□</b> ←                         | ROUND EXHAUST/RETURN DUCT ELBOW TURNED DOWN                |
|   |                                    | ROUND EXHAUST/RETURN DUCT ELBOW TURNED UP                  |
|   | <del></del>                        | DIRECTION OF FLOW  |
|   | 20x12<br>20x12                     | DUCT AIR PATH SIZE, FIRST FIGURE IS SIDE SHOWN             |
|   | <del></del>                        | FLEXIBLE CONNECTION  |
|   |                                    | FLEXIBLE DUCT  |
|   | 36x12                              | DUCT SECTION, POSITIVE PRESSURE,<br>FIRST FIGURE IS TOP    |
| ] | 36x12                              | DUCT SECTION, NEGATIVE PRESSURE,<br>FIRST FIGURE IS TOP    |
|   | 20x10 15x8<br>20x10 15x8           | TRANSITION WITH DUCT SIZE                                  |
|   | ERRE TO THE REAL X                 | RECTANGULAR ELBOWS WITH TURNING VANES                      |
| - |                                    | RECTANGULAR ELBOWS WITHOUT TURNING VANES                   |
|   |                                    | DUCT PENETRATION THROUGH BEAM                              |
|   |                                    | CAPPED DUCT - RECTANGULAR OR ROUND                         |
|   |                                    | CEILING-MOUNTED SUPPLY AIR TERMINAL DEVICE                 |
| _ |                                    | CEILING-MOUNTED EXHAUST/RETURN AIR TERMINAL<br>DEVICE      |
|   |                                    | WALL OR DUCT MOUNTED EXHAUST/RETURN AIR<br>TERMINAL DEVICE |
|   | TAG<br>CFM                         | GRILLE, REGISTER, DIFFUSER TAG                             |
|   | CFM<br><del>-</del> √ <del>-</del> | UNDER DOOR TRANSFER AIRFLOW TAG                            |
| 1 |                                    | LINEAR SUPPLY AIR DIFFUSER                                 |
| 1 | VD                                 | VOLUME DAMPER  |
| J | <b>_</b> FD                        | FIRE DAMPER  |
|   | M                                  | MOTOR OPERATED DAMPER                                      |
|   | S                                  | TEMPERATURE SENSOR   |
|   | T                                  | THERMOSTAT   |

| DESIGNATION                | DESCRIPTION  |
|----------------------------|--|
| -0-                        | PUMP   |
| <b>-</b> ⋈-                | GATE VALVE   |
| <b>→</b> ▼                 | GLOBE VALVE  |
| <b></b> Ф                  | BALL VALVE   |
| $\dashv$ $\vdash$ $\vdash$ | BUTTERFLY VALVE  |
| <b>-</b> ▼-                | THREE WAY VALVE  |
| 基一                         | ANGLE GATE VALVE   |
| <u> </u>                   | ANGLE GLOBE VALVE  |
| ⊣ <del>↓</del> ⊢           | PLUG VALVE (GAS SERVICE)   |
| <b>-</b> ₩-                | PRECALIBRATED MANUAL BALANCING VALVE<br>W/PRESSURE SENSING PORTS |
|                            | AUTOMATIC FLOW CONTROL VALVE                                     |
|                            | 2-WAY CONTROL VALVE<br>(PNEUMATIC ACTUATION)                     |
| (M)<br>                    | 3-WAY CONTROL VALVE<br>(PNEUMATIC ACTUATION)                     |
|                            | SOLENOID VALVE<br>(PNEUMATIC ACTUATION)                          |
|                            | 2-WAY CONTROL VALVE<br>(ELECTRIC OR ELECTRONIC ACTUATION)        |
|                            | 3-WAY CONTROL VALVE<br>(ELECTRIC OR ELECTRONIC ACTUATION)        |
| <b>→</b>                   | PRESSURE REDUCING VALVE  |
| <b>≵</b> ⊢                 | PRESSURE RELIEF OR SAFETY VALVE                                  |
| <del>-</del>               | SWING GATE CHECK VALVE   |
|                            | SPRING CHECK VALVE   |
| —⊗—                        | STEAM TRAP (SEE SPECIFICATIONS FOR TYPE)                         |
| <u></u>                    | HOSE END DRAIN VALVE   |
| 14                         | Y-TYPE STRAINER (W/BLOWOFF VALVE)                                |
| $\overline{m}$             | ELECTRIC HEAT TRACE  |
| <b>—</b> ****              | FLEXIBLE CONNECTOR   |
| AV                         | AIR VENT (AUTOMATIC)   |
| ÅH^V                       | AIR VENT (MANUAL)  |
| $\dashv:\vdash$            | FLOW METER, ORIFICE  |
| <b>→</b>                   | FLOW METER, VENTURI  |
| <u> </u>                   | THERMOMETER  |
| <b>9</b>                   | HYDRONIC PRESSURE GAUGE & NEEDLE VALVE                           |
| <b>○</b>                   | STEAM PRESSURE GAUGE & NEEDLE VALVE                              |
|                            | UNIVERSAL PORT FOR PRESSURE GAUGE<br>OR THERMOMETER WELL         |

GRUMMAN|BUTKUS ASSOCIATES ENERGY EFFICIENCY CONSULTANTS AND SUSTAINABLE DESIGNATION OF THE PROPERTY OF THE PRO



#### EXHAUST FAN SCHEDULE AIRFLOW EXP MAX SONES VIBRATION MODEL LOCATION SERVICE DAMPER TYPE WEIGHT MANUFACTURER NOTES TAG FAN RPM (CFM) (IN WC) ISOLATORS NUMBER PHASE/VOLTAGE IDF-S01 LOADING DOCK BOILER EXHAUST CENTRIFUGAL 1.72 1740 3/480 30 1750 INLINE 702.9 **ENERVEX** TDF 685

NOTES: 1. PROVIDE FAN WITH VFD, EBC 31 MODULATING PRESSURE CONTROLLER, AND MDF DAMPER, ALL BY ENERVEX

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

1.0 SCOPE: THE WORK SPECIFIED IN THESE NOTES INCLUDES, BUT SHALL NOT BE LIMITED TO, PROVIDING LABOR, MATERIAL, EQUIPMENT, AND SERVICES NECESSARY FOR WORK AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED.
1.1 REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.

1.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOP DRAWING SUBMITTALS WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO A MINIMUM OF FIVE (5) COPIES OF: PRODUCT DATA AND EQUIPMENT SPECIFICATIONS SHEETS, SCHEMATIC DIAGRAMS, WIRING DIAGRAMS, SIZES, MOUNTING DETAILS (WITH REQUIRED ELEVATIONS), TECHNICAL DESCRIPTIONS OF COMPONENTS, TEST REPORTS, CERTIFICATES, OPERATING AND MAINTENANCE MANUALS, AND PROPER CALCULATIONS TO ENSURE SPECIFIED PERFORMANCE OF THE SYSTEMS. ALL SUBMITTALS SHALL BE SENT IN DIGITAL (PDF) FORMAT. NO EQUIPMENT SHALL BE ORDERED, PURCHASED, OR INSTALLED WITHOUT PRIOR APPROVAL BY THE ENGINEER OF THE SUBMITTALS AND SHOP

1.3 ALL WORK SHALL COMPLY WITH THE MECHANICAL CODE APPROVED BY THE LOCAL AUTHORITY, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

1.4 NOT ALL EXISTING DUCTWORK, PIPING, ACCESSORIES AND MECHANICAL EQUIPMENT ARE SHOWN ON THE PLANS. A SURVEY OF THE JOB SITE MUST BE MADE TO DETERMINE THE EXTENT OF EXISTING MECHANICAL SYSTEMS.
1.5 IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATION NOTES OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE

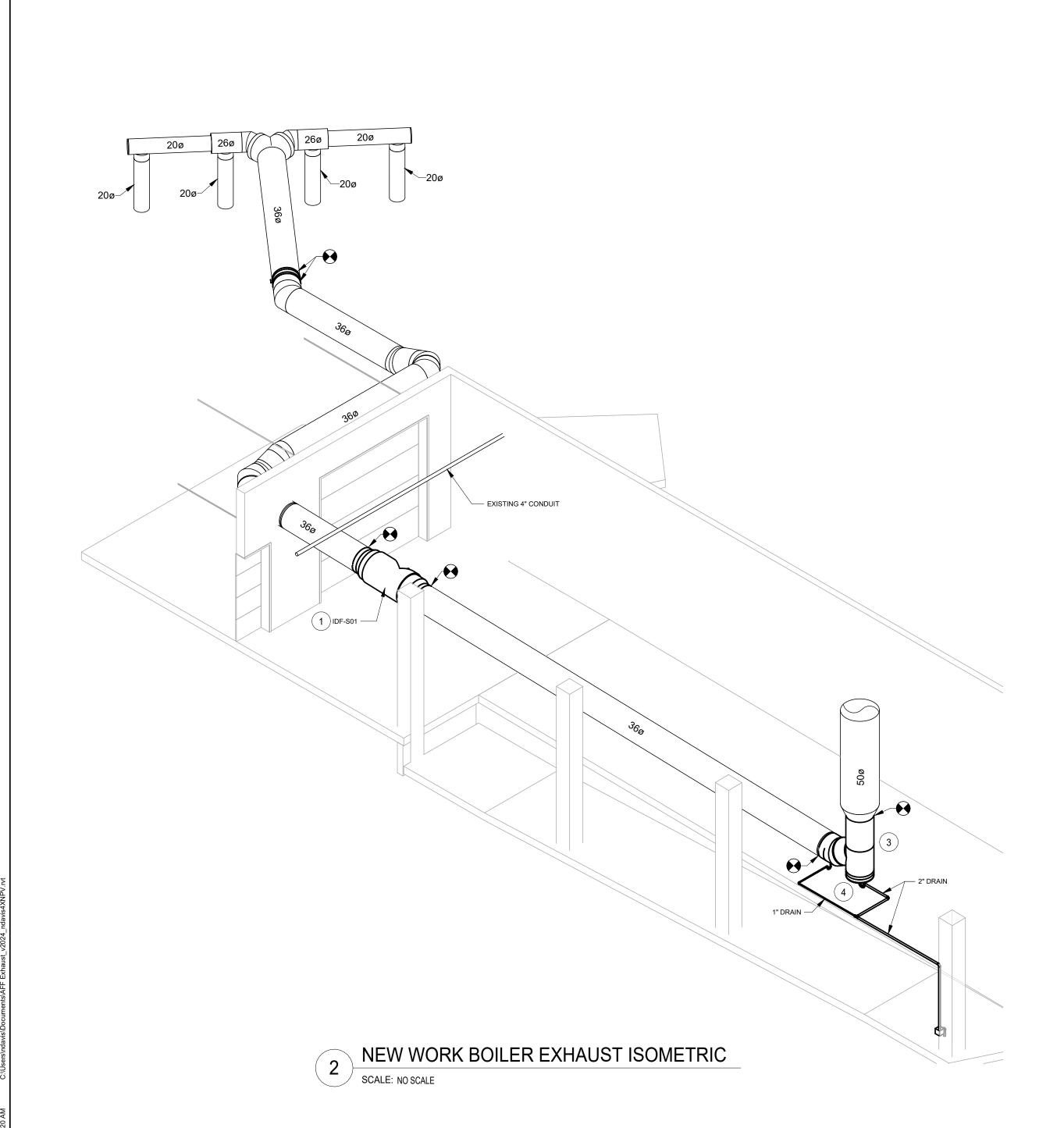
1.6 OMISSIONS FROM THE DRAWINGS, SPECIFICATION NOTES, OR THE OF DETAILS OF WORK WHICH ARE NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

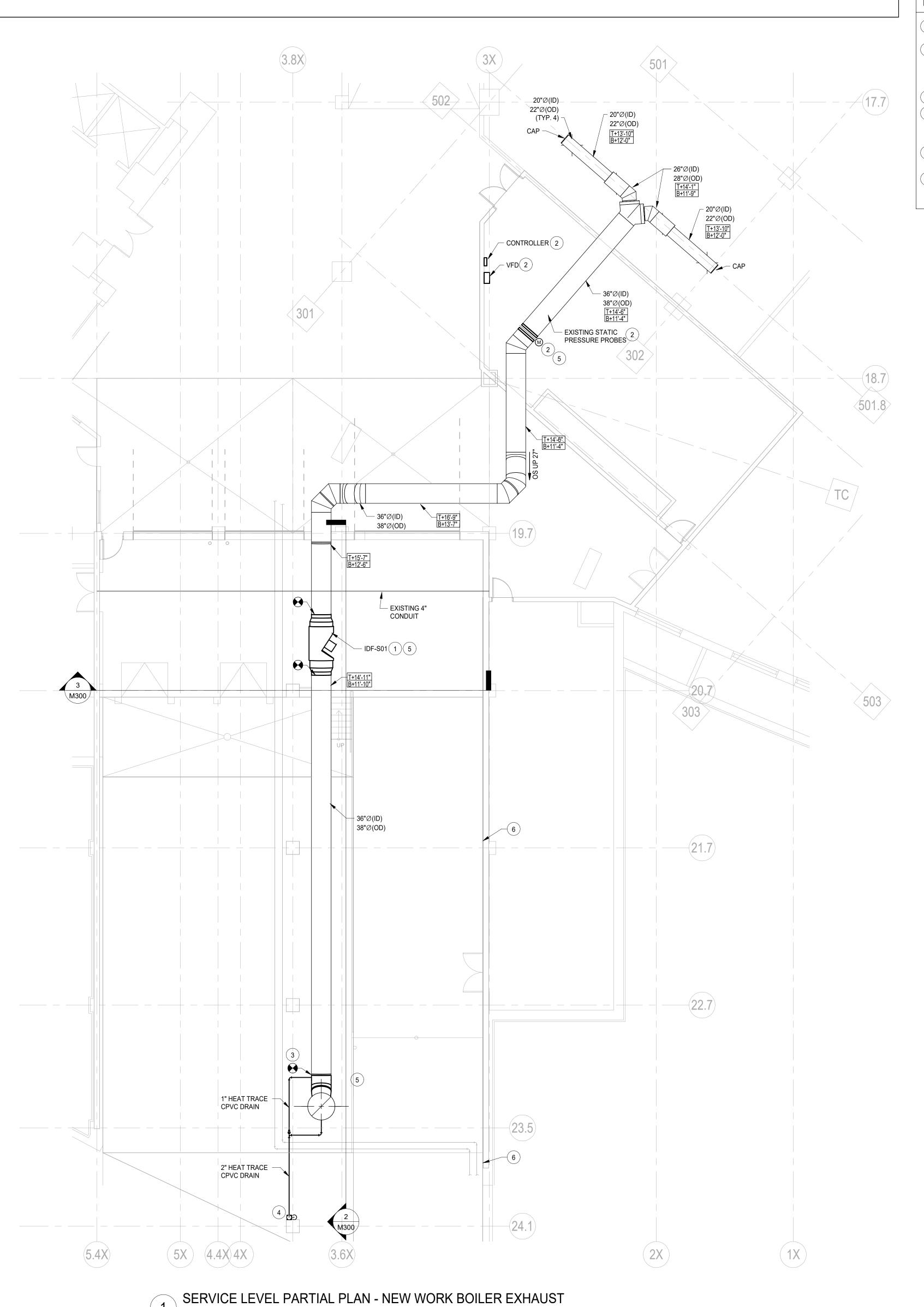
1.7 THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES. FIGURES MARKED ON DRAWINGS SHALL IN GENERAL BE FOLLOWED IN PREFERENCE TO SCALE MEASUREMENTS. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.

1.8 THE CONTRACTOR SHALL FURNISH ALL PERMITS AND PAY ALL FEES.

COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.

1.9 CONTRACTOR AND EQUIPMENT MANUFACTURER'S REPRESENTATIVE SHALL PERFORM SYSTEM START-UP AND PARTICIPATE IN COMMISSIONING OF THE BOILER EXHAUST SYSTEM. ASSUME 8 HOURS OF COMMISSIONING EFFORT FOR BOTH CONTRACTOR AND MANUFACTURER'S REPRESENTATIVE.





# GENERAL NOTES

- COORDINATE ALL EQUIPMENT AND POWER OUTAGES WITH OWNER.
- WORK SHALL BE COMPLETED DURING FIRST SHIFT WORK HOURS.
   ALL NEW BOILER EXHAUST DUCTWORK SHALL BE AMPCO TO MATCH EXISTING.
   CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE ORDERING

# KEYED NOTES - NEW WORK

- 1 INSTALL FAN WITH MOTOR AT 90 DEGREE ANGLE. PROVIDE INLET AND OUTLET FITTINGS AS INDICATED. NEW DUCTWORK TO MATCH EXISTING AMPCO DUCTWORK.
- 2 INSTALL NEW ENERVEX MODEL LDF 36" DIA. CONTROL DAMPER IN ELECTRICAL ROOM. MECHANICAL CONTRACTOR TO PROVIDE 24V WIRING TO ACTUATOR FROM CONTROLLER. ELECTRICAL CONTRACTOR TO INSTALL VFD AND EBC31 CONTROLLER. MECHANICAL CONTRACTOR TO INSTALL STATIC PRESSURE TAPS IN DUCT AT SAME LOCATION AS EXISTING. VERIFY IN FIELD.
- PROVIDE NEW ELBOW AND RISER WITH A BOOT TEE WITH CONDENSATE FITTING.

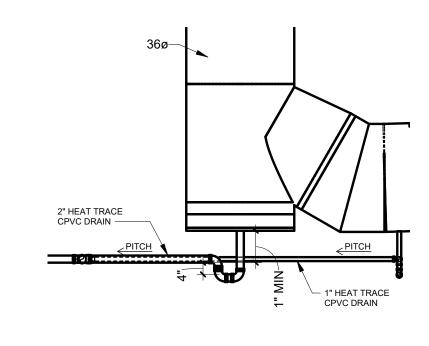
   PROVIDE CPVC CONDENSATE DRAIN WITH HEAT TRACE BY ELECTRICAL CONTRACTOR. RUN CONDENSATE DICHARGE TO LOCATION SHOWN. PROVIDE

NEAUTRILZATION KIT AND DRAIN TO GRADE. HEAT TRACE NEAUTRALIZATION KIT AND

5 PROVIDE NEW SUPPORTS TO MATCH EXISTING THREADED ROD AND UNISTRUT

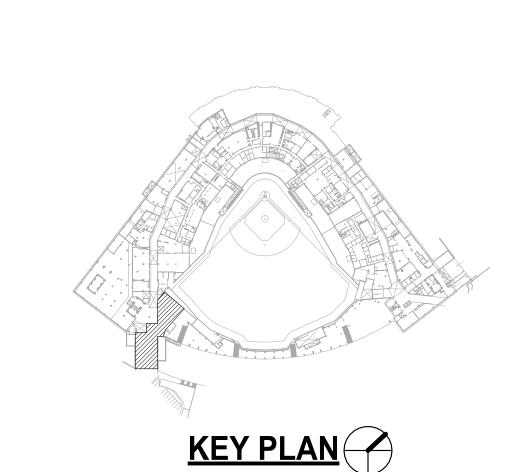
DRAIN. PROVIDE CLOSED CELL INSULATION OVER HEAT TRACE.

ROUTE ATMOSPHERIC PRESSURE TUBING FROM EBC31 CONTROLLER ALONG WALL AND UP TO PLAZA LEVEL. MOUNT SENSOR AT PLAZA LEVEL ON L-BRACKET. VERIFY EXTRA LENGTH OF TUBING REQUIRED BEFORE ORDERING.



3 DUCT TRAP DETAIL

SCALE: 3/8" = 1'-0"





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Wauwatosa, Wisco

ISSUES & REVISIONS

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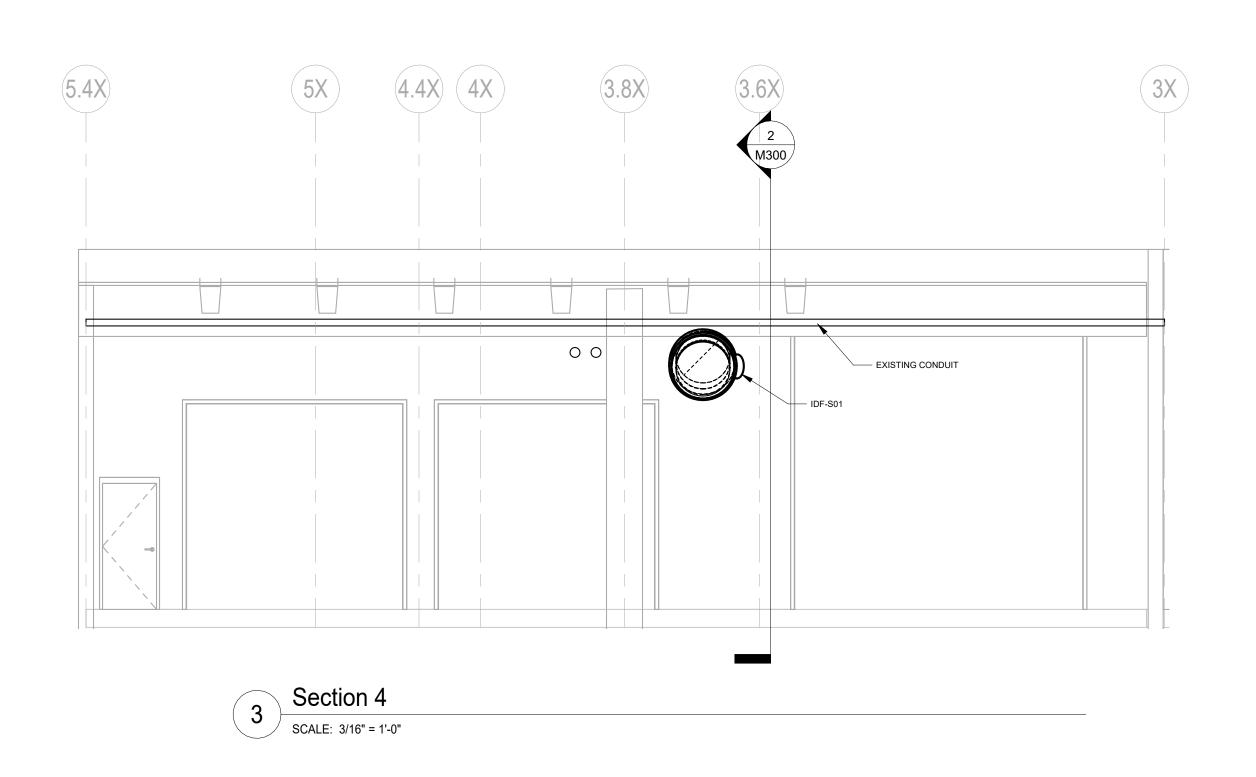
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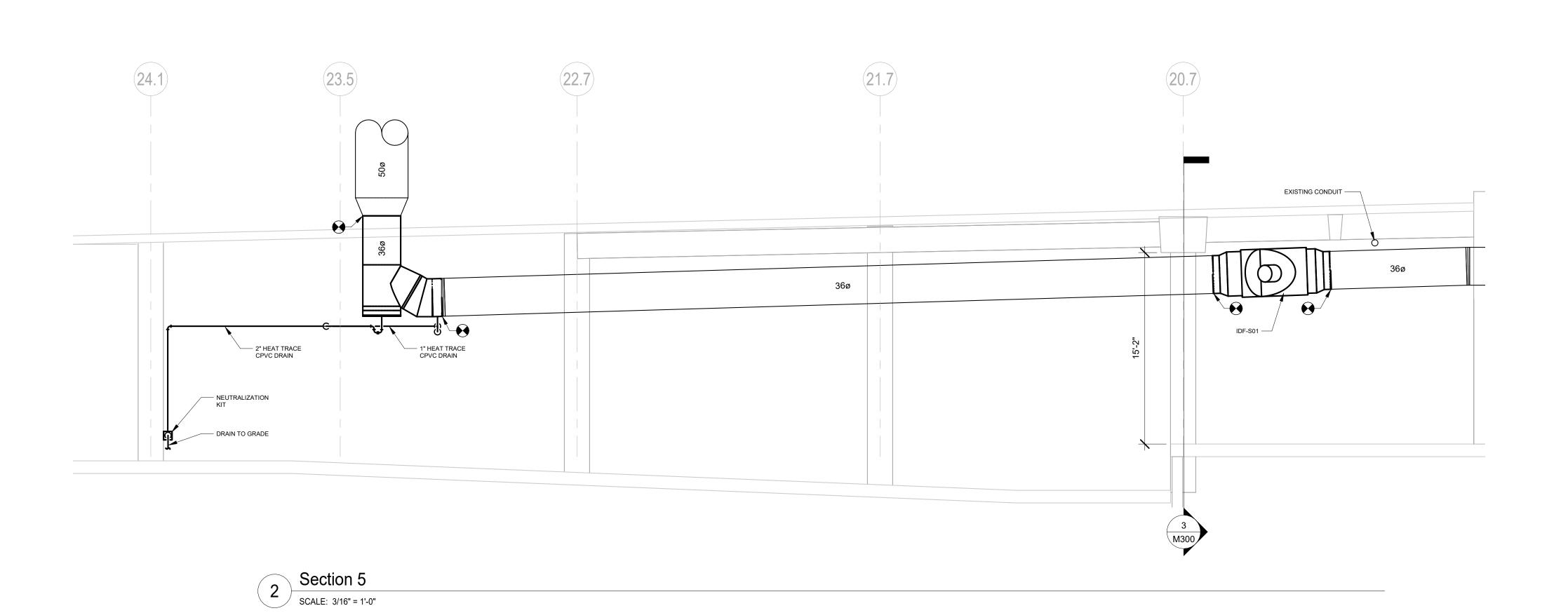
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AVERTICAN FAMILY FIELD

NED WISCONSIN PROFESSIONAL

RLB BASEBALL PARK DISTRICT

M300

### **GENERAL NOTES FOR DEMOLITION**

#### 1. EXAMINATION

- A. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE AREAS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE OWNER IN WRITING OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL SATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- B. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS FOR DEVICES SHOWN ON DRAWINGS.
- C. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DRAWINGS. REPORT DISCREPANCIES TO OWNER BEFORE DISTURBING EXISTING INSTALLATION.
- D. COMMENCEMENT OF DEMOLITION MEANS ACCEPTANCE OF EXISTING CONDITIONS.

### 2. PREPARATION

- A. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- B. COORDINATE UTILITY SERVICE SHUT-DOWN WITH THE UTILITY COMPANY.
- C. NOTIFY THE OWNER AT LEAST 48 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING ANY ELECTRICAL SYSTEM.
- D. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. EXPERIENCED PERSONNEL SHALL BE USED WHEN WORKING ON ENERGIZED EQUIPMENT OR CIRCUITS.
- E. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING ELECTRICAL SYSTEM IN SERVICE UNTIL NEW SERVICE IS COMPLETE AND READY FOR SERVICE. DISABLE ELECTRICAL SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN ELECTRICAL SERVICE IN AREAS ADJACENT TO WORK AREA.
- F. MAINTAIN EXISTING FIRE ALARM SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. WHERE FIRE ALARM DEVICES MUST BE REMOVED TO ACCOMMODATE THE REMOVAL OF WALLS, NOTIFY THE OWNER AND ENGINEER IN WRITING WITH LOCATIONS OF DEVICES.
   3. DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK.
- A. REMOVE, RELOCATE, AND EXTEND EXISTING ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND AS NOTED
- B. REMOVE ABANDONED WIRING BACK TO SOURCE OF SUPPLY.
- C. WHERE SOURCE OF SUPPLY IS A PANELBOARD, RE-LABEL PROTECTIVE DEVICE AS "SPARE". AFTER DEMOLITION IS COMPLETE, SUBMIT REVISED PANELBOARD SCHEDULES INDICATING "SPARES" TO OWNER AND ENGINEER.
- D. REMOVE EXPOSED ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- E. DISCONNECT AND REMOVE ABANDONED OUTLETS AND ASSOCIATED DEVICES.
- F. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.
- G. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT THAT IS NO LONGER IN USE.
- H. DISCONNECT AND REMOVE ABANDONED LUMINARIES. REMOVE BRACKETS, STEMS, HANGERS, AND ALL OTHER
- ACCESSORIES.

  I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION OF WORK.
- I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION OF WORK

## 4. CLEANING, REPAIR, AND REPLACEMENT

REVISED CIRCUITING INFORMATION.

- A. GENERAL: CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT THAT WILL REMAIN OR ARE TO BE REUSED.
   B. PANELBOARDS: CLEAN EXPOSED SURFACES AND TIGHTEN ALL ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED SCHEDULES SHOWING
- C. LUMINAIRES: REMOVE EXISTING LUMINAIRES FOR CLEANING. USE MILD DETERGENT TO CLEAN EXTERIOR AND INTERIOR SURFACES, RINSE CLEAN WITH CLEAN WATER AND WIPE DRY. REPLACE EXISTING LAMPS AND BALLASTS WITH NEW.

# 5. DISPOSAL

- A. OWNER SHALL HAVE RIGHT TO RETAIN ANY EQUIPMENT OR MATERIALS THAT HAVE BEEN DEMOLISHED PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- B. ANY EQUIPMENT OR MATERIALS NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR
- C. CONTRACTOR SHALL COMPLY WITH ENVIRONMENTAL LAWS AND REGULATIONS FOR DISPOSAL OF DEMOLISHED

### **ELECTRICAL GENERAL NOTES**

#### 1 CODES

THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, AND NATIONAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

# 2. DRAWINGS AND SPECIFICATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.

### 3. INTERPRETATION OF THE DOCUMENTS

CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE PROPOSAL, IT WILL NOT BE CONSIDERED

## 4. ELECTRICAL DRAWINGS

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC. THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.

### 5. SITE EXAMINATION

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN SITE EXAMINATION BEEN MADE.

### 6. COORDINATION WITH OTHER TRADES

THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPES OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS, DAMPERS, LIFTS, AND OTHER SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT.

### 7. PERMITS, APPLICATIONS AND RELEASES

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS INSPECTIONS, APPLICATIONS, RELEASES AND FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES FOR THE EXECUTION OF THIS WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

# 8. FIRE STOPPING

ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M COMPANY OR APPROVED EQUAL.

### 9. PAINTING

ALL NEWLY INSTALLED EXPOSED PIPING SHALL BE PAINTED TO MATCH THE EXISTING ADJACENT WALL OR CEILING SURFACE.

10. ELECTRICAL SERVICE DISRUPTIONS

ALL WORK WHICH EXPOSES ACTIVE BUS REQUIRES A WRITTEN NOTIFICATION TO THE OWNER WHICH WILL OUTLINE THE METHOD OF PROCEDURE FOR THE WORK. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 5 DAYS NOTICE TO THE OWNER BEFORE WORKING ON ANY ENERGIZED ELECTRICAL SYSTEM. ALL POWER DISRUPTION SHALL OCCUR AT TIMES AND OF DURATIONS ACCEPTABLE TO THE OWNER.

## 11. EQUIPMENT

ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND

# 12. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

# 13. PANELBOARDS

ALL PANELBOARDS SHALL BE PROVIDED WITH TYPEWRITTEN DIRECTORIES. SEE PANEL SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS.

# 14. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE OWNERS EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

COMPLY WITH NFPA 241 FOR SAFEGUARDING DURING CONSTRUCTION AND ALTERATION OPERATIONS. IN ADDITION, ANY OPENINGS IN FIRE RATED SEPARATIONS BETWEEN OCCUPIED AND UNOCCUPIED (OR OPERATIONAL AND NON-OPERATIONAL) AREAS SHALL BE SEALED AT THE END OF EACH WORK DAY WITH AN APPROPRIATE FIRE RATED ENCLOSURE OR SEALANT. DO NOT COMPROMISE EXISTING SECURITY OR FIRE ALARM SYSTEMS SERVING THE OCCUPIED OR OPERATIONAL AREAS.

# PROVIDE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED UNDER OTHER TRADES AND FOR ALL OWNER FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTION TO ALL VIBRATION PRODUCING EQUIPMENT.

# 16. INTERFERENCE WITH OCCUPANCY

15. EQUIPMENT CONNECTIONS

THE PRESENT BUILDING IS OCCUPIED AND WILL CONTINUE TO BE DURING THE PROGRESS OF THIS WORK. IT IS IMPERATIVE, THEREFORE, THAT THE WORK COVERED BY THESE DOCUMENTS BE EXECUTED WITH A MINIMUM OF INCONVENIENCE TO THE BUILDING PERSONNEL, AND OTHER TENANTS.

17. TEMPORARY REQUIREMENTS

# PROVIDE TEMPORARY LIGHTING, POWER, AND FIRE ALARM COMPONENTS AS REQUIRED IN AREAS UNDERGOING WORK DURING CONSTRUCTION

FURNISH AND INSTALL ONE OSHA APPROVED PIGTAIL SOCKET WITH 150-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE AND A MINIMUM 1 PER ROOM. THE TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL.

FURNISH AND INSTALL POWER OUTLETS TO A TOTAL ONE FOR EVERY 2000 SQUARE FEET OR PART THEREOF OF FLOOR AREA AND THESE SHALL BE 15 AMP, SINGLE PHASE RECEPTACLES FOR EITHER 110 OR 220 VOLTS AS DIRECTED BY THE GENERAL CONTRACTOR. COORDINATE FOR ADDITIONAL TEMPORARY POWER REQUIREMENTS WITH OTHER TRADES AND PROVIDE AN ADEQUATE INSTALLATION.

ALL TEMPORARY ELECTRICAL EQUIPMENT SHALL BE REMOVED BEFORE THE AREA CEILINGS ARE INSTALLED.

# 18. CABLING BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (15 OR 20 AMP CIRCUITS), UNLESS SPECIFICALLY

NOTED OTHERWISE, SHALL BE 2#12, 1#12G. - 3/4" C. SEE NOTE BELOW FOR ADDITIONAL REQUIREMENTS. MINIMUM SIZE WIRE SHALL BE #12 AWG AND MINIMUM SIZE CONDUIT SHALL BE 3/4" TRADE SIZE.

# 19. CABLING SIZES BRANCH CIRCUIT CABLE

BRANCH CIRCUIT CABLE SIZING SHALL BE BASED ON THE VALUES INDICATED BELOW:

A. 120/208V CABLING FROM PANEL TO THE ELECTRICAL LOAD SHALL BE ADJUSTED AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE:

#### 0' - 100' #12 AWG MINIMUM 100' - 200' #10 AWG MINIMUM 200' - 250' #8 AWG MINIMUM

B. 277/480V CABLING FROM PANEL TO THE ELECTRICAL LOAD SHALL BE ADJUSTED AS FOLLOWS UNLESS SPECIFICALLY

PRODUCED WITH NON FLASHING TYPE DYES AS MANUFACTURED BY THOMAS AND BETTS OR APPROVED EQUAL, MINIMUM 10 TONS OF COMPRESSION, HEX CRIMP. THE USE OF HEAT SHRINK TUBING IS EXPLICITLY FORBIDDEN. THERE SHALL BE NO

0' - 150' #12 AWG MINIMUM 150' - 250' #10 AWG MINIMUM 250' - 300' #8 AWG MINIMUM

NOTED OTHERWISE:

20. SPECIAL LUG REQUIREMENTS

"SHINERS" AT THE LUGS.

20. SPECIAL LUG REQUIREMENTS

ANY CABLE WHICH TERMINATES DIRECTLY ON TO A BUS BAR SHALL BE 2 BOLT LONG BARREL TYPE WITH INSPECTION HOLES

|  | POWER SYMBOLS  |  |
|--|--|--|
| DESIGNATION  | DESCRIPTION  |  |
| H  | DUPLEX RECEPTACLE (WALL MOUNTED)<br>+18" AFF UNO<br>AC = ABOVE COUNTER |  |
| H  | DOUBLE DUPLEX (WALL MOUNTED)<br>+18" AFF UNO<br>AC = ABOVE COUNTER     |  |
| Ю  | SINGLE RECEPTACLE (WALL MOUNTED)<br>+18" AFF UNO<br>AC = ABOVE COUNTER |  |
| J  | CEILING MOUNTED JUNCTION BOX   |  |
| HJ   | WALL MOUNTED JUNCTION BOX  |  |
| •  | EQUIPMENT CONNECTION, SEE EQUIPMENT SCHEDULE                           |  |
| J  | FLOOR MOUNTED JUNCTION BOX   |  |
|  | DISCONNECT SWITCH (NON-FUSED)  |  |
|  | COMBINATION MOTOR STARTER AND DISCONNECT SWITCH                        |  |
| ZĘ-J   | FUSED DISCONNECT SWITCH  |  |
| B  | BREAKER DISCONNECT   |  |
|  | MAGNETIC MOTOR STARTER   |  |
| $\left\langle \begin{array}{c} X \\ Y \end{array} \right\rangle$ | EQUIPMENT TAG<br>SEE EQUIPMENT<br>SCHEDULE                             |  |
| ——●  | CONDUIT DOWN   |  |
| •  | CONDUIT UP   |  |
| <u></u>  | FLEXIBLE CONDUIT   |  |
| DP-X   | POWER DISTRIBUTION PANELBOARD  |  |
| LP-X <b>\</b>  | BRANCH CIRCUIT PANELBOARD  |  |
| Т  | TRANSFORMER  |  |
| #/   | MOTOR. # = HP  |  |
| [VFD]  | VARIABLE FREQUENCY DRIVE   |  |
|  | MOTOR CONTROL CENTER   |  |
|  |  |  |

| AC<br>AF<br>AFF<br>AM | ALTERNATING CURRENT<br>AMPERE FRAME, AMPERE FUSE<br>ABOVE FINISHED FLOOR<br>AMPERE | MCB<br>MCC<br>MLO<br>MIN | MAIN CIRCUIT BREAKER<br>MOTOR CONTROL CENTER<br>MAIN LUGS ONLY<br>MINIMUM |
|-----------------------|--|--------------------------|---|
| AMP<br>AT             | AMPERE<br>AMPERE TRIP  | N/A                      | NOT APPLICABLE  |
| ATS<br>AWG            | AUTOMATIC TRANSFER SWITCH<br>AMERICAN WIRING GAUGE                                 | NATS<br>NC<br>NEC        | NON-AUTOMATIC TRANSFER SWIT<br>NORMALLY CLOSED<br>NATIONAL ELECTRIC CODE  |
| BP<br>BKR             | BRANCH CIRCUIT PANEL<br>BREAKER  | NEMA<br>NETA             | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRICAL TESTING |
| С                     | CONDUIT  |                          | ASSOCIATION   |
| CATV<br>C/B<br>CKT    | CABLE ACCESSED TELEVISION CIRCUIT BREAKER CIRCUIT                                  | NF<br>NL<br>NO           | NON-FUSED<br>NIGHT LIGHT. UNSWITCHED<br>NORMALLY OPEN                     |
| CT<br>CU              | CURRENT TRANSFORMER<br>COPPER  | OC<br>OSHA               | OVER CURRENT<br>OCCUPATIONAL SAFETY AND                                   |
| DC                    | DIRECT CURRENT   | JOHA                     | HEALTH ADMINISTRATION   |
| DISC                  | DISCONNECT   | P                        | POLE  |
| DN<br>DWG             | DOWN<br>DRAWING  | PB                       | PULL BOX  |
| אאס                   | DUMMING  | PDU                      | POWER DISTRIBUTION UNIT   |
| EM                    | EMERGENCY  | PE                       | PROFESSIONAL ENGINEER   |
| EMI                   | ELECTROMAGNETIC INTERFERENCE   | PF<br>PH                 | POWER FACTOR<br>PHASE   |
| EMT<br>EPO            | ELECTRIC METALLIC TUBING<br>EMERGENCY POWER OFF                                    | PM                       | POWER MONITORING DEVICE   |
| E                     | EXISTING   | PNL                      | PANELBOARD  |
|                       |  | PP                       | POWER PANEL   |
| F.                    | FUSE   | PT<br>PVC                | POTENTIAL TRANSFORMER POLYVINYL CHLORIDE                                  |
| FAAP                  | FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL  | FVC                      | FOLT VINTE CHLORIDE   |
| FACP                  | FIRE ALARM CONTROL PANEL   | RFI                      | RADIO FREQUENCY INTERFERENCE  |
| FLA                   | FULL LOAD AMPERES  | RGS                      | RIGID GALVANIZED STEEL CONDU  |
| FLR                   | FLOOR  | RMC<br>RMS               | RIGID METAL CONDUIT<br>ROOT MEAN SQUARE                                   |
| FMC<br>FVNR           | FLEXIBLE METAL CONDUIT<br>FULL VOLTAGE NON-REVERSING                               | RP                       | RECEPTACLE PANEL  |
| GEN                   | GENERATOR  | SCA                      | SHORT CIRCUIT AMPERES   |
| GF                    | GROUND FAULT   | SWBD                     | SWITCH<br>SWITCHBOARD   |
| GFCI                  | GROUND FAULT CIRCUIT INTERRUPTER   | OWBB                     | OWNONDOAND  |
| G                     | GROUND   | T                        | TELEPHONE   |
|                       |  | THD                      | TOTAL HARMONIC DISTORTION   |
| HID                   | HIGH INTENSITY DISCHARGE   | TIA                      | TELECOMMUNICATIONS INDUSTRY ASSOCIATION                                   |
| HOA  <br>HP           | HAND OFF AUTO<br>HORSEPOWER  | TV                       | TELEVISION  |
| HPS                   | HIGH PRESSURE SODIUM   | TVSS                     | TRANSIENT VOLTAGE SURGE   |
| HZ                    | HERTZ (CYCLE)  |                          | SUPPRESSION   |
| IC                    | INTERRUPTING CAPACITY  | UH                       | UNIT HEATER   |
| IEEE                  | INSTITUTE OF ELECTRICAL AND  | UL<br>UNO                | UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE                          |
| IG                    | ELECTRONICS ENGINEERS ISOLATED GROUND  | UPS                      | UNINTERRUPTIBLE POWER SUPPL   |
| IMC                   | INTERMEDIATE METAL CONDUIT   |                          |   |
|                       |  | V                        | VOLTAMBERE  |
| JB                    | JUNCTION BOX   | VA<br>VFD                | VOLT-AMPERE<br>VARIABLE FREQUENCY DRIVE                                   |
| κv                    | KILOVOLT   | VM                       | VOLT METER  |
| KVA                   | KILOVOLT-AMPERE  |                          |   |
| KW                    | KILOWATT   | W<br>WP                  | WATT  |
| LDC                   | LOW DDESCUDE CODUM   | WM                       | WEATHERPROOF<br>WATT METER  |
| LPS<br>LP             | LOW PRESSURE SODIUM<br>LIGHTING PANEL  |                          |   |
| LRA                   | LOCKED ROTOR AMPERES   | XFMR                     | TRANSFORMER   |
| LRP                   | LIGHTING RELAY PANEL   |                          |   |
| LTG                   | LIGHTING   |                          |   |
|                       |  |                          |   |



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### 1.0 GENERAL

1.1 SCOPE: THE WORK SPECIFIED IN THESE NOTES INCLUDES, BUT SHALL NOT BE LIMITED TO, PROVIDING LABOR, MATERIAL, EQUIPMENT, AND SERVICES NECESSARY FOR ELECTRICAL WORK AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED.
1.2 REFER TO ARCHITECTURAL, MECHANICAL, OR PLUMBING/FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION AND

1.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOP DRAWING SUBMITTALS WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO A MINIMUM OF FIVE (5) COPIES OF: PRODUCT DATA AND EQUIPMENT SPECIFICATIONS SHEETS, SCHEMATIC DIAGRAMS, WIRING DIAGRAMS, SIZES, MOUNTING DETAILS (WITH REQUIRED ELEVATIONS), TECHNICAL DESCRIPTIONS OF COMPONENTS, TEST REPORTS, CERTIFICATES, OPERATING AND MAINTENANCE MANUALS, AND PROPER CALCULATIONS TO ENSURE SPECIFIED PERFORMANCE OF THE SYSTEMS. ALL SUBMITTALS SHALL BE SENT IN DIGITAL (PDF) FORMAT. NO EQUIPMENT SHALL BE ORDERED, OR INSTALLED WITHOUT PRIOR APPROVAL BY THE ENGINEER OF THE SUBMITTALS AND SHOP

1.4 ALL WORK SHALL COMPLY WITH THE ELECTRICAL CODE APPROVED BY THE LOCAL AUTHORITY, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

1.5 NOT ALL EXISTING CONVENIENCE RECEPTACLES, WALL SWITCHES, LIGHTS, ETC., AND OTHER ELECTRICAL EQUIPMENT ARE SHOWN ON THE PLANS. A SURVEY OF THE JOB SITE MUST BE MADE TO DETERMINE THE EXTENT OF EXISTING ELECTRICAL FOL

1.6 IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATION NOTES OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.

1.7 OMISSIONS FROM THE DRAWINGS, SPECIFICATION NOTES, OR THE OF DETAILS OF WORK WHICH ARE NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

1.8 THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES. FIGURES MARKED ON DRAWINGS SHALL IN GENERAL BE FOLLOWED IN PREFERENCE TO SCALE MEASUREMENTS. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.

1.9 THE CONTRACTOR SHALL FURNISH ALL PERMITS AND PAY ALL FEES.

## 2.0 PRODUCTS AND MATERIALS

### 2.1 RACEWAYS

A. CONDUIT AND FITTINGS INSTALLED FOR MOTOR CIRCUITS, FEEDER CIRCUITS, IN CONCRETE SLABS ON GRADE, EXPOSED TO WEATHER, BURIED UNDERGROUND OR EXPOSED WHERE SUBJECT TO MECHANICAL INJURY SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METAL CONDUIT (IMC) COMPLYING ANSI C80.1. FITTINGS SHALL BE THREADED.

B. CONDUIT AND FITTINGS INSTALLED FOR CONCEALED INTERIOR WORK FOR LIGHTING/ RECEPTACLES/ BRANCH CIRCUITS, FIRE ALARM, PAGING, SIGNAL, AND LOW VOLTAGE CIRCUITS SHALL BE ELECTRICAL METAL TUBING (EMT) COMPLYING WITH NEMA FB C80.3. EMT FITTINGS SHALL BE ZINC PLATED COMPRESSION TYPE. SET SCREW FITTINGS ARE NOT PERMITTED.

C. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND VIBRATING EQUIPMENT SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).

D. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (19 MM) EXCEPT THAT CONTROL, SIGNAL, AND TWO-WIRE LIGHTING SWITCH LEGS MAY BE 1/2 INCH (13 MM).

E. SUPPORT AND FASTEN METAL CONDUIT AT A MAXIMUM OF 8 FEET (2.4 M) ON CENTER. SUPPORTS SHALL BE INDEPENDENT OF THE INSTALLATIONS OF OTHER TRADES, E.G. CEILING SUPPORT WIRES, HVAC PIPES, OTHER CONDUITS, ETC., UNLESS SO

F. PULL BOXES ARE REQUIRED IN RUNS OVER 100 FEET, WHEN MORE THAN THE EQUIVALENT OF THREE (3) 90° BENDS ARE USED, AND AS SHOWN ON DRAWINGS.

# 2.2 BOXES

A. PULL AND JUNCTION BOXES AND COVERS SHALL BE FABRICATED FROM GALVANIZED NEC GAGE SHEET STEEL. OUTLET BOXES TO BE OF THE HOT-DIPPED GALVANIZED, PRESSED STEEL, KNOCKOUT TYPE. BOXES SHALL GENERALLY BE 4 INCHES SQUARE EXCEPT WHERE NOTED OTHERWISE.

### 2.3 WIRE AND CA

A. UNLESS NOTED OTHERWISE, CONDUCTORS FOR POWER AND LIGHTING SHALL BE COPPER, #12 AWG MINIMUM WITH 600 VOLT INSULATION, TYPE THHN, 90 DEGREE C, CONFORMING TO THE LATEST NEC AND SHALL BEAR UL LABEL.

B. BRANCH CIRCUIT WIRING SHALL BE SOLID COPPER WHEN #10 AWG OR SMALLER, UNLESS OTHERWISE SPECIFIED. WIRE #8 AWG AND LARGER SHALL BE STRANDED COPPER.

C. WIRE FOR SIGNAL AND CONTROL SYSTEMS SHALL BE #14 AWG, UNLESS OTHERWISE NOTED.

### 2.4 ELECTRICAL CONNECTIONS

A. ALL WIRE CONNECTIONS SHALL BE MADE BY MEANS OF SOLDERLESS CONNECTORS.

B. BRANCH CIRCUIT JOINTS OF SPLICES FOR WIRES #10 AND SMALLER SHALL BE MADE WITH 3M BRAND SCOTCHLOK ELECTRICAL SPRING CONNECTORS.

C. SPLICES AND JOINTS FOR CONDUCTORS NO. 8 AND LARGER SHALL BE BY MEANS OF HIGH PRESS, LONG BARREL, CAST COPPER, COMPRESSION CONNECTORS.D. JOINT AND SPLICES SHALL BE COVERED WITH 3M ELECTRICAL TAPE TO 150% OF INSULATION VALUE OR BY MEANS OF AN

EQUIVALENT, LISTED SPLICING PRODUCT.

E. NO SPLICES SHALL BE MADE IN THE CONDUCTOR EXCEPT AT OUTLET BOXES, JUNCTION BOXES, OR IN SPLICE BOXES.

E. NO OF EIGES STALE BE MADE IN THE SONDSTON EXCELLENT OF THE BOXES, SONOTION BOXES, ON IN OF EIGE BOXE

## 2.5 PANELBOARDS

A. EXISTING PANEL BOARDS MODIFIED UNDER THE SCOPE OF THIS PROJECTS SHALL BE PROVIDED WITH UPDATED TYPE WRITTEN DIRECTORIES AFTER NEW WORK IS COMPLETED. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH EXISTING BREAKERS MANUFACTURER, MODEL/SERIES, AND SHORT CIRCUIT WITHSTAND RATING.

### 2.6 DISCONNECT SWITCHES

A. PROVIDE HEAVY DUTY SURFACE-MOUNTED SAFETY SWITCHES FOR MOTORS UNLESS OTHERWISE INDICATED, OF TYPES, SIZES, AND ELECTRICAL CHARACTERISTICS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. THE SWITCHES SHALL BE FUSED OR NON-FUSED AS INDICATED ON THE DRAWINGS OR AS REQUIRED AND SHALL BE MANUFACTURED BY SQUARE D, EATON, OR GENERAL ELECTRIC.

B. SWITCHES SHALL HAVE SWITCH BLADES WHICH SHALL BE FULLY VISIBLE IN THE OFF POSITION WHEN THE ENCLOSURE DOOR IS OPEN. CURRENT CARRYING PARTS SHALL BE PLATED COPPER AND SWITCH CONTACTS SHALL BE SILVER-TUNGSTEN. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK TYPE. THE OPERATING HANDLE SHALL BE AN INTEGRAL PART OF THE ENCLOSURE BASE AND SHALL BE PADLOCKABLE IN THE OFF POSITION. THE HANDLE POSITION SHALL INDICATE WHETHER THE SWITCH IS ON OR OFF. SWITCHES SHALL BE HORSEPOWER RATED FOR 250 AC OR DC OR 600 VOLTS AC AS REQUIRED.

C. CONTACTS: PROVIDE TWO FORM C AUXILIARY, 10 AMPERE, 300 VOLT RATED CONTACTS. THE CONTACTS SHALL PROVIDE FOR TWO NORMALLY OPEN AND TWO NORMALLY CLOSED CONTACTS FOR SWITCH OPEN OR CLOSED POSITION.

# 2.7 GROUNDING

A. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODE. EQUIPMENT GROUNDING SYSTEM CABLE SHALL BE COPPER.
 B. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND ENCLOSURES WITHIN THE BUILDING.

C. ACCESSIBLE GROUNDING CONNECTIONS SHALL BE BOLTED OR CLAMP TYPE UNLESS OTHERWISE INDICATED. SOLDERED CONNECTIONS WILL NOT BE PERMITTED IN THE GROUNDING SYSTEM.

D. WHERE CONDUITS TERMINATE AT EQUIPMENT, OR IN THE PULL BOXES OF EQUIPMENT, FOR WHICH A GROUND BUS IS SPECIFIED, PROVIDE THEM WITH BUSHINGS OF THE GROUNDING TYPE HAVING THE MAXIMUM AVAILABLE ACCOMMODATION FOR GROUND WIRES. GROUND EACH BUSHING INDIVIDUALLY TO THE EQUIPMENT GROUND BUS WITH THE CODE REQUIRED SIZE COPPER WIRE.

### 3.0 EXECUTION

3.1 ELECTRICAL WORK SHALL COMPLY WITH NECA STANDARDS AND RECOMMENDED PRACTICES FOR ELECTRICAL INSTALLATION AS APPLICABLE TO THIS PROJECT.

3.2 THE CONTRACTOR SHALL MAKE POWER CONNECTIONS TO ALL MOTORS AND EQUIPMENT FURNISHED BY OTHERS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS, SPECIFICATIONS AND NOTES FOR ADDITIONAL INFORMATION.

3.3 ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

3.4 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.

3.5 ALL DEVICES INSTALLED OUTSIDE OR IN DAMP LOCATIONS SHALL BE APPROVED WEATHERPROOF.

SEISMIC REQUIREMENTS OF THE UNIFORM BUILDING CODE AND ALL LOCAL ORDINANCES.

3.6 THE CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEAD ROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR AND MEET ALL STRUCTURAL CODE REQUIREMENTS.

3.7 THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN

APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.

3.8 THE CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL FIXTURES AND ELECTRICAL EQUIPMENT TO COMPLY WITH THE

3.9 ALL CONDUIT CONNECTIONS TO MACHINES, MOTORS, AND EQUIPMENT SUBJECT TO VIBRATION (INCLUDING TRANSFORMERS) SHALL BE MADE WITH LIQUIDTIGHT FLEX CONDUIT. FLEXIBLE CONNECTION SHALL BE BETWEEN 18 AND 36 INCHES IN LENGTH. ARRANGE CONNECTIONS TO PREVENT THE ENTRANCE OF MOISTURE. PROVIDE CONTINUOUS EQUIPMENT GROUND WIRE

ARRANGE CONNECTIONS TO PREVENT THE ENTRANCE OF MOISTURE. PROVIDE CONTINUOUS EQUIPMENT GROUND WIRE THROUGH ALL FLEXIBLE CONDUITS TO ASSURE GROUND CONTINUITY.

3.10 THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.

3.11 THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.
 3.12 THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRES, BOXES, SWITCHES, LIGHT FIXTURES (WITH LAMPS), RECEPTACLES, SERVICE DEVICES, SWITCHBOARDS AND PANELBOARDS REQUIRED FOR A COMPLETE AND

OPERATIONAL ELECTRICAL SYSTEM.

3.13 PROVIDE AN EXTERNAL MANUAL DISCONNECTING MEANS AT ALL MOTORS OR PACKAGED MECHANICAL EQUIPMENT

3.14 PROVIDE AN ENCLOSURE OF EQUAL FIRE RESISTANT RATING AROUND ALL FIXTURES AND EQUIPMENT INSTALLED IN OR PENETRATING THROUGH FIRE RATED SEPARATIONS. THROUGH STOP FIRE SEALING OF CONDUITS SHALL BE MADE WITH 3M, HILTI, OR EQUIVALENT CAULK ACCORDING TO UL APPLICATION.

3.15 LOCATIONS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS TAKE PRECEDENCE OVER THOSE SHOWN ON THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL, PLUMBING AND HEAT/VENT/AC DRAWINGS FOR THE EXACT LOCATIONS, RATINGS, TYPE CONNECTIONS, WIRING DIAGRAMS AND AUXILIARY DEVICES.

3.16 THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, WIRE AND CONNECTIONS FOR LINE VOLTAGE LIGHTING CONTROLS AND LOW VOLTAGE LIGHTING CONTROL UNLESS NOTED OTHERWISE ON DRAWINGS. THE CONTRACTOR SHALL MAKE ALL POWER CONNECTIONS ALL TO A/C EQUIPMENT INCLUDING 120 VOLT POWER CONTROL, MONITORING, AND SIGNALING EQUIPMENT FURNISHED BY OTHER DISCIPLINES. COORDINATE WITH OTHER DISCIPLINES FOR REQUIREMENTS.

3.17 THE CONTRACTOR SHALL RECEIVE, STORE AND INSTALL ALL ELECTRICAL ITEMS FURNISHED BY THE OWNER.

3.18 REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN AND FLOOR PLANS FOR THE EXACT LOCATIONS OF ALL LIGHTING FIXTURES AND DEVICES.

3.19 PROVIDE TYPEWRITTEN DIRECTORY CARD IN ALL NEW AND MODIFIED PANELS. IDENTIFY LOAD SERVED BY EACH CIRCUIT BREAKER.

3.20 PROVIDE ENGRAVED NAMEPLATES ON ALL PANEL(S), TRANSFORMERS, DISCONNECT SWITCHES, AND SWITCHBOARDS.
 3.21 RECEPTACLES SHALL HAVE PRINTED LABELS WITH THE PANEL AND CIRCUIT NUMBER PLACED ON THE COVER. THE LABEL SHALL BE WHITE WITH RED LETTERS FOR EMERGENCY RECEPTACLES AND WHITE WITH BLACK LETTERS FOR NORMAL RECEPTACLES.

3.22 THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT DRAWINGS SHOWING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND CONDUITS, INDICATE ALL CHANGES MADE DURING CONSTRUCTION, AND ANY DEVIATIONS FROM THE ELECTRICAL DRAWINGS.

3.23 PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.

UNLESS NOTED OTHERWISE.

3.24 FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE ELECTRICAL WORK INTERFACES WITH OTHER TRADES.

3.25 DISCONNECT AND REMOVE ALL EXISTING INTERIOR AND EXTERIOR ELECTRICAL DEVICES, EQUIPMENT, WIRING, EXPOSED ABANDONED CONDUIT, ETC., NO LONGER REQUIRED UNLESS OTHERWISE NOTED.

3.26 CONTRACTORS SHALL VISIT THE EXISTING BUILDINGS AND GROUNDS AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY, ON THIS CONDITION, ON BEHALF OF THE CONTRACTORS FOR ANY ERROR OR NEGLIGENCE ON THEIR PART.

3.27 WHERE EXISTING EQUIPMENT OR CONDUIT IS REMOVED OR CHANGED, ALL CONDUIT AND WIRE NO LONGER IN SERVICE SHALL BE REMOVED AS DIRECTED BY THE ARCHITECT. ALL BUILDING SURFACES DAMAGED AND OPENINGS LEFT BY THE REMOVAL OR RELOCATION OF EQUIPMENT, CONDUIT, ETC., SHALL BE REPAIRED BY THIS CONTRACTOR.

3.28 EXISTING CONDUIT AND WIRE SHALL NOT BE REUSED IF MOVED FROM ITS PRESENT LOCATION OR IF IT IS OF INADEQUATE CAPACITY FOR THE NEW LOAD.
 3.29 ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS TO DETERMINE WHERE NEW WALLS AND CEILINGS ARE TO BE INSTALLED AND SHALL MAKE USE OF THESE

AREAS TO CONCEAL CONDUIT. THE CONTRACTOR SHALL USE SURFACE RACEWAYS SUCH AS WIREMOLD AS DIRECTED.

EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDING AREAS.

4, Suite 300 53226-3431

1011 North Mayfair Road, Suite 300 Wauwatosa, Wisconsin 53226-3431

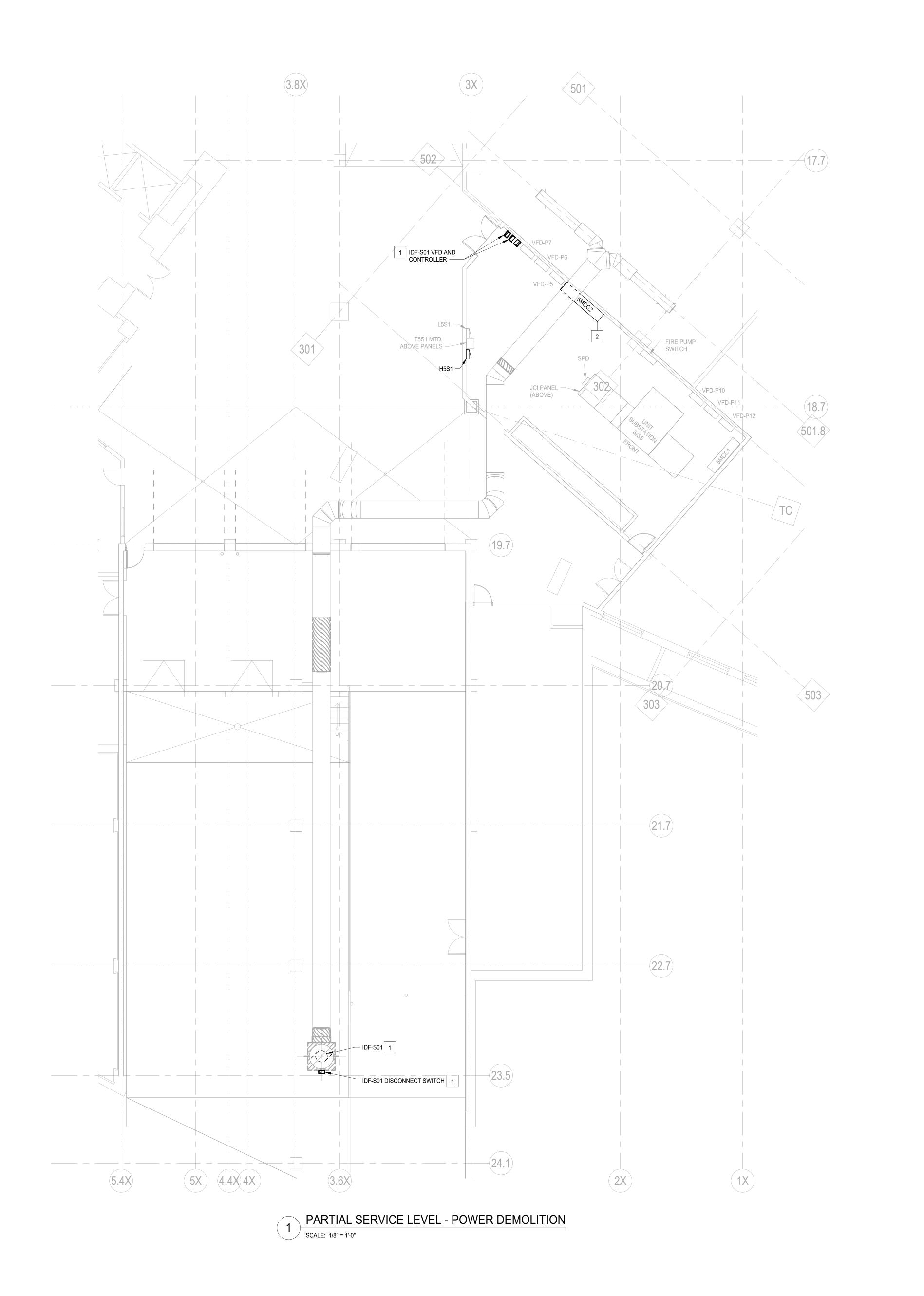
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E002



# GENERAL NOTES

- 1. REFER TO E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- DEMOLISH ALL DEVICES IN AREA BACK TO SOURCE, UNLESS OTHERWISE NOTED.
   UPDATE TYPEWRITTEN PANEL SCHEDULES TO REFLECT CIRCUITS MADE AVAILABLE BY DEMOLITION.
- AVAILABLE BY DEMOLITION.

  4. REFER TO SHEET E501 FOR EQUIPMENT AND PANEL SCHEDULES.
- 5. REMOVE AND REINSTALL LIGHT FIXTURES IN AREA OF WORK AS REQUIRED TO ACCOMMODATE NEW MECHANICAL WORK.

# KEYED NOTES - DEMOLITION

- 1 DISCONNECT EXISTING BOILER EXHAUST FAN TO FACILITATE REMOVAL BY MECHANICAL CONTRACTOR AND DEMOLISH CIRCUIT, ASSOCIATED DISCONNECT SWITCH, VFD, AND CONTROLLER BACK TO SOURCE. SEE E111 FOR NEW WORK SCOPE. COORDINATE PHASING OF WORK WITH MECHANICAL CONTRACTOR PRIOR TO DEMOLITION.
- 2 REFER TO SHEET E500 FOR MOTOR CONTROL CENTER ELEVATION AND SCOPE OF



: DESIGN ENGINEERS

GRUMMAN|BUTKUS ASSOCIATES

ENERGY EFFICIENCY CONSULTANTS AND SUSTAINABLE DESIGN ENGINEE

1011 North Mayfair Road, Suite 30
Wauwatosa, Wisconsin 53226-343

NO. DESCRIPTION

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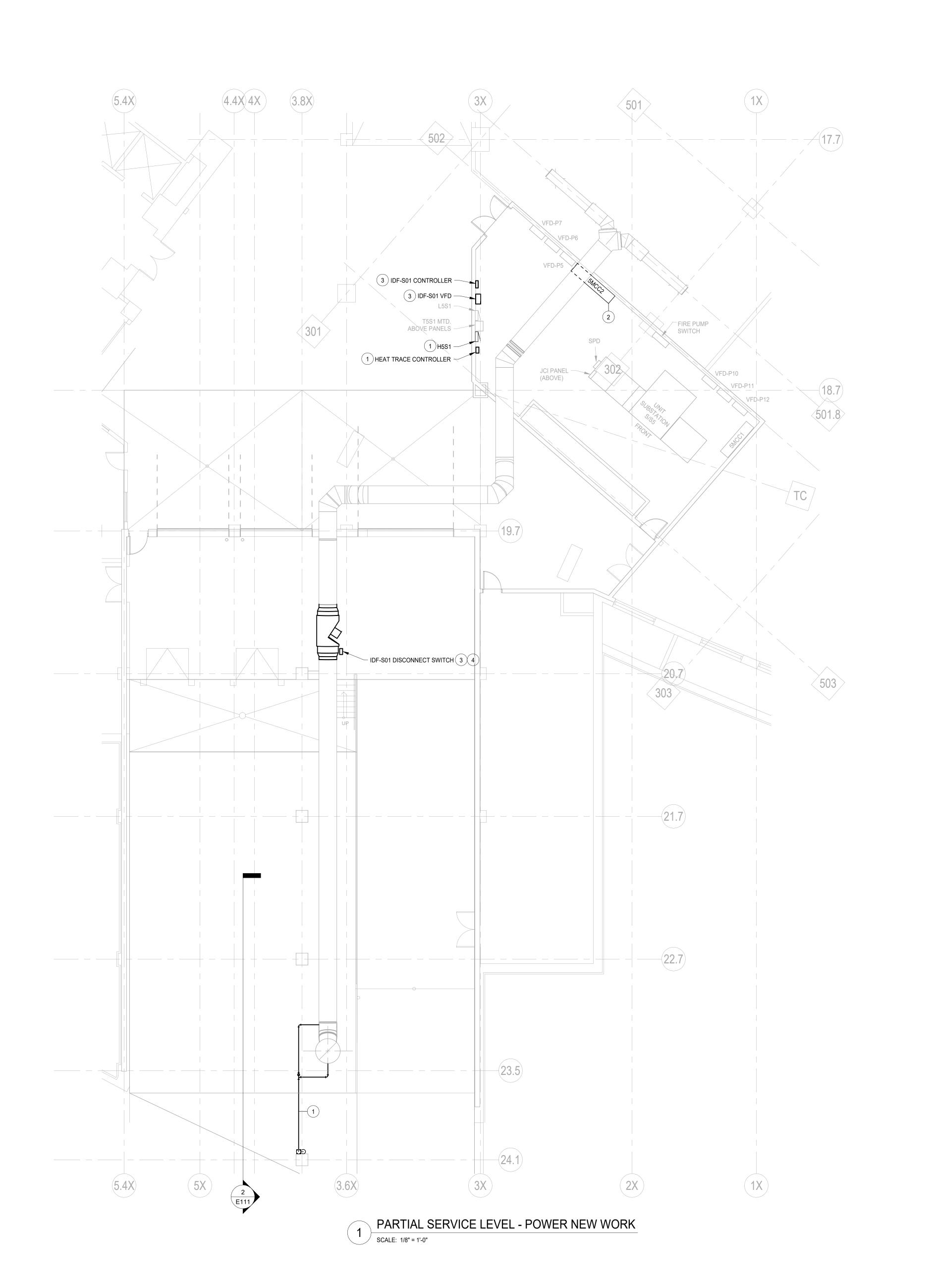
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ESSIONAL DISTRICT AY, MILWAUKEE, WI 53214

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E011

KEY PLAN



# GENERAL NOTES

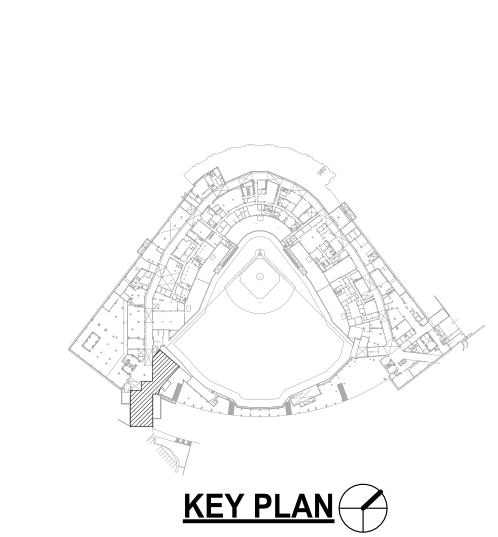
- 1. REFER TO E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- 2. UPDATE TYPEWRITTEN PANEL SCHEDULES TO REFLECT CIRCUITS MADE AVAILABLE BY DEMOLITION.
- 3. REFER TO SHEET E501 FOR EQUIPMENT AND PANEL SCHEDULES.
- 4. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND CONNECTION POINTS WITH MECHANICAL CONTRACTOR.
- 5. CONTRACTOR TO VERIFY EXACT CONDUIT ROUTING IN FIELD. CONFIRM ROUTING IS ACCEPTABLE TO OWNER PRIOR TO INSTALLATION.

# KEYED NOTES - NEW WORK

- 1 PROVIDE NEW CONDUIT AND WIRING FOR NEW HEAT TRACE SYSTEM FROM PANEL H5S1. REFER TO SHEET E501 FOR PANEL SCHEDULE AND HEAT TRACE EQUIPMENT SCHEDULE. HEAT TRACE SHALL RUN THE LENGTH OF THE CONDENSATION DRAIN PIPING. COORDINATE EXACT PIPE ROUTING WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL SHEET M111 FOR ISOMETRIC VIEW OF PIPING TO BE HEAT
- 2 REFER TO SHEET E500 FOR MOTOR CONTROL CENTER ELEVATION AND SCOPE OF
- PROVIDE POWER TO NEW EXHAUST FAN IDF-S01 THROUGH NEW VFD AND CONTROLLER. REFER TO SHEET E501 FOR EQUIPMENT SCHEDULE AND FEEDER INFORMATION.

GRUMMAN|BUTKUS A
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PROVIDE NEW NEMA 4X DISCONNECT SWITCH MOUNTED ON UNISTRUT NEAR EXHAUST FAN



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2 ELECTRICAL HEAT TRACE SCOPE SCALE: NTS

5MCC2 - DEMOLITION WORK SPACE SPACE SPACE SPACE SPACE BOILER BOILER PUMP 1 #1 EF-S05 15A/3P CIRCUIT BREAKER SPARE PUMP 6 PUMP 3 SPACE PUMP 4 SPARE IDF-S01 2 CHILLER 3 CIRC PUMP SPARE IRRIGATION PUMP SQUARE D MODEL 6 MCC 600A HORIZONTAL 300A VERTICAL

|         | SPACE        |              | SPACE               | SPACE                                  | SPACE    |
|---------|--------------|--------------|---------------------|--|----------|
| SPACE   |              |              |                     |  |          |
|         | BOILER<br>#1 | BOILER<br>#2 | PUMP 1              | EF-S05<br>15A/3P<br>CIRCUIT BREAKER    | SPARE    |
| PUMP 5  |              |              |                     |  | <u> </u> |
|         | SPARE        |              | PUMP 2              | IDF-S01 1<br>70A/3P<br>CIRCUIT BREAKER | SPACE    |
| PUMP 6  |              |              |                     | SINGON BILLINER                        |          |
|         | B-4          |              | PUMP 3              | SPARE                                  |          |
| P-7     |              |              |                     |  |          |
|         | A            |              | PUMP 4              | SPARE                                  | SPACE    |
| SPARE 2 |              |              |                     |  |          |
|         | IRRIGATION   | N PUMP       | CHILLER 3 CIRC PUMP | SPARE                                  |          |
|         |              |              |                     |  |          |

GENERAL NOTES

- COORDINATE SHUTDOWN OF 5MCC2 WITH OWNER 1 MONTH PRIOR TO OUTAGE NECESSARY FOR MOTOR CONTROL CENTER WORK.
- 2. REFER TO SHEET E011 FOR LOCATION OF MOTOR CONTROL CENTER.

# KEYED NOTES - DEMOLITION

1 DEMOLISH ENTIRE SPARE FEEDER BUCKET INCLUDING THE STARTER AND PREPARE ─ SPACE FOR NEW CIRCUIT BREAKER FEEDER BUCKET.

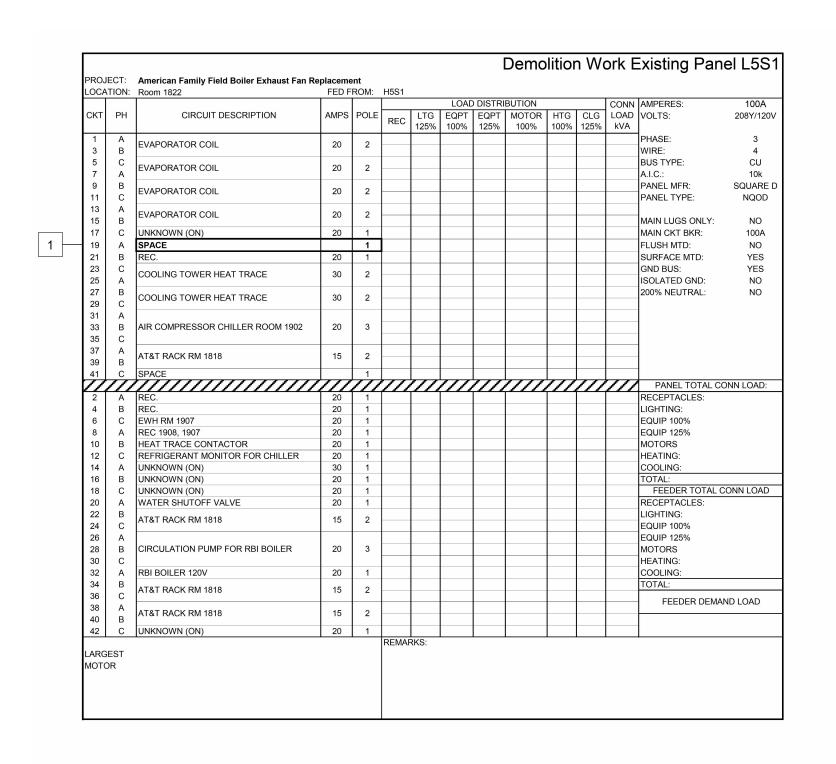
MAINTAIN EXISTING EXHAUST FAN CIRCUIT AND STARTER UNTIL NEW EXHAUST FAN INFRASTRUCTURE IS INSTALLED TO REDUCE DURATION OF SHUTDOWN.

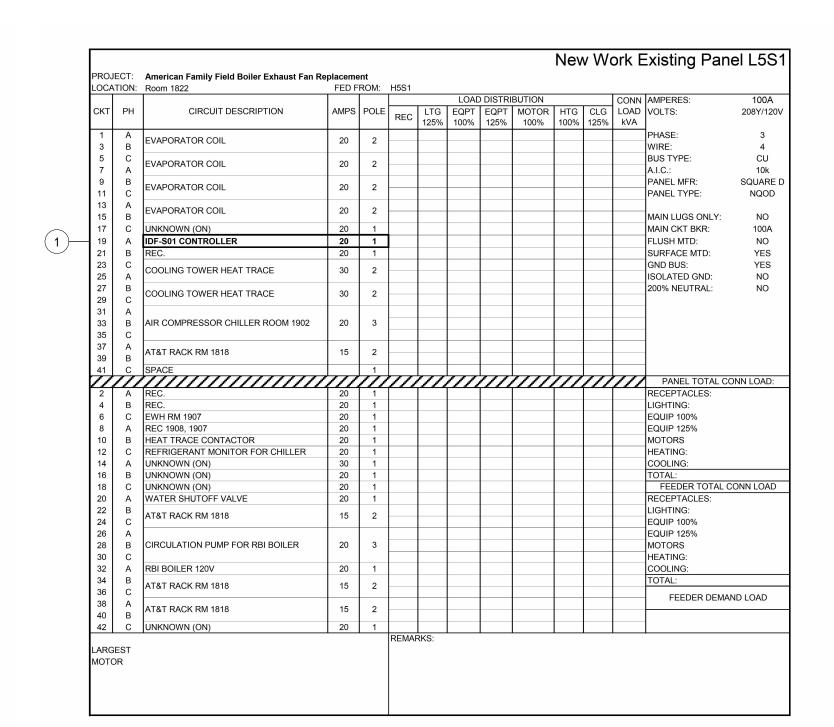
# KEYED NOTES - NEW WORK

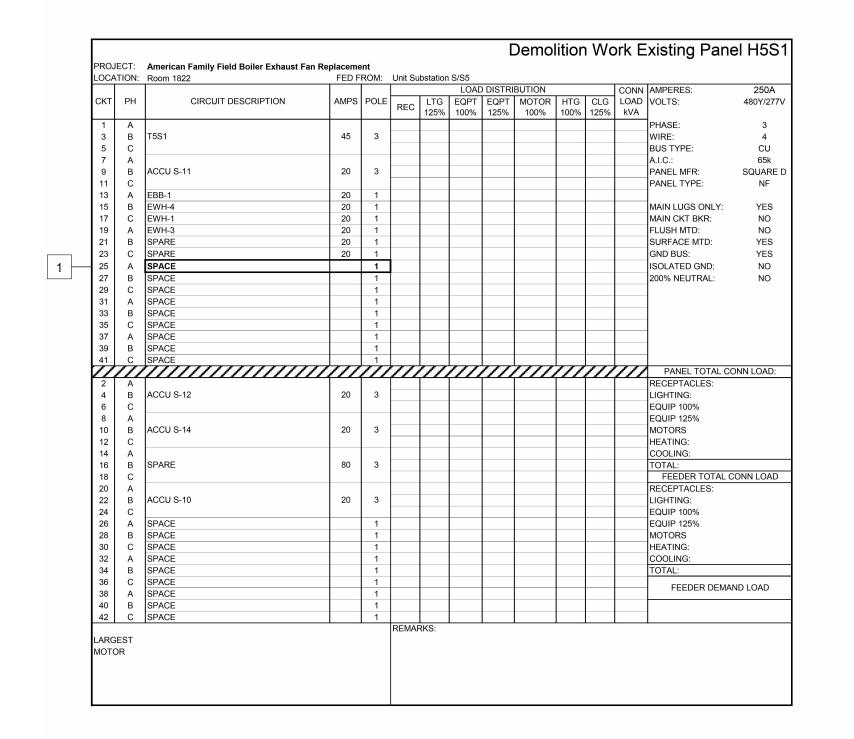
- 1 ) PROVIDE NEW FEEDER BUCKET WITH NEW CIRCUIT BREAKER IN 5MCC2 FOR NEW EXHAUST FAN. CIRCUIT BREAKER SHALL BE SIZED AS SHOWN AND MATCH THE MANUFACTURER, TYPE, AND INTERRUPT RATING OF 5MCC2.
- 2 DEMOLISH EXISTING EXHAUST FAN CIRCUIT ONCE NEW EXHAUST FAN INFRASTRUCTURE IS INSTALLED AND OPERATIONAL.

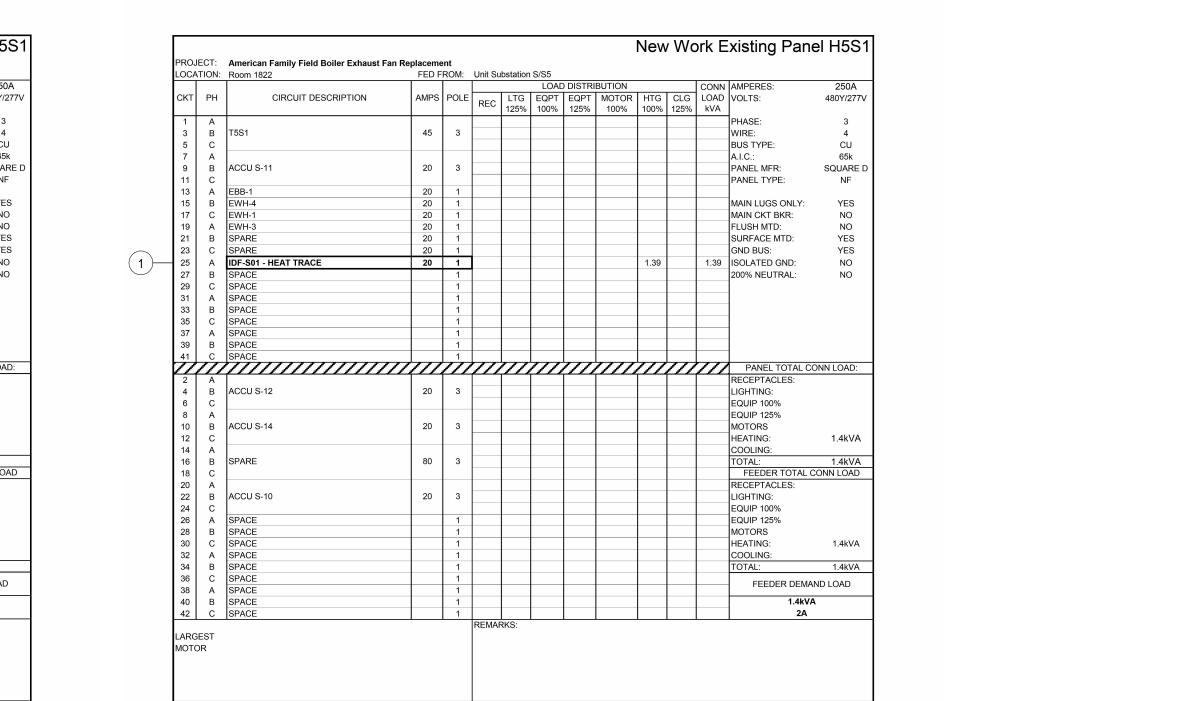
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WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT









| NEW HVAC EQUIPMENT SCHEDULE |              |       |       |             |                                    |  |  |   |  |  |   |  |  |   |   |  |   |  |
|-----------------------------|--------------|-------|-------|-------------|------------------------------------|--|--|---|--|--|---|--|--|---|---|--|---|--|
|                             |              | LOAD  |       |             | CIDCUIT                            | FEEDER / CIRCUIT INFORMATION           |  | VFD   |  | DISCONNECT   |   |  |  |   |   |  |   |  |
| EQUIPMENT                   | LOCATION     | PHASE | VOLTS | FLA         | MCA                                | HP/kW                                  | SOURCE PANEL                                 | JRCE PANEL BREAKER (A)                                    | PHASE<br>CONDUCTOR(S)  | GROUND<br>CONDUCTOR  | CONDUIT SIZE  | VFD (Y/N)  | FURNISHED BY<br>DIVISION (23/26)   | UNIT NO.  | SIZE  | FUSE   | NEMA<br>ENCLOSURE   | NOTES  |
| BOILER EXHAUST FAN          | LOADING DOCK | 3     | 480   | 46          | 52                                 | 30 HP                                  | 5MCC2  | 70  | (3)#4 AWG  | #8 AWG   | 1"  | Υ  | 23   | SEE DWG   | 100A  | N  | 4X  | 1, 2   |
| -                           |              |       | PHASE | PHASE VOLTS | EQUIPMENT LOCATION PHASE VOLTS FLA | EQUIPMENT LOCATION PHASE VOLTS FLA MCA | EQUIPMENT LOCATION PHASE VOLTS FLA MCA HP/kW | EQUIPMENT LOCATION PHASE VOLTS FLA MCA HP/kW SOURCE PANEL | EQUIPMENT LOCATION  PHASE VOLTS FLA MCA HP/kW SOURCE PANEL BREAKER (A) | EQUIPMENT LOCATION PHASE VOLTS FLA MCA HP/kW SOURCE PANEL CIRCUIT BREAKER (A) PHASE CONDUCTOR(S) | EQUIPMENT LOCATION  PHASE VOLTS FLA MCA HP/kW SOURCE PANEL CIRCUIT BREAKER (A) PHASE CONDUCTOR(S) CONDUCTOR | EQUIPMENT LOCATION  PHASE VOLTS FLA MCA HP/kW SOURCE PANEL CIRCUIT BREAKER (A) PHASE CONDUCTOR(S) GROUND CONDUCTOR  CONDUCTOR CONDUCTOR  CONDUCTOR CONDUCTOR CONDUCTOR  CONDUCTOR CONDUCTOR CONDUCTOR  CONDUCTOR CONDUCTOR CONDUCTOR CONDUCTOR  CONDUCTOR CONDUC | EQUIPMENT LOCATION  PHASE VOLTS FLA MCA HP/kW SOURCE PANEL BREAKER (A) PHASE CONDUCTOR CONDUCTOR CONDUCTOR CONDUCTOR VFD (Y/N) | EQUIPMENT LOCATION  PHASE VOLTS FLA MCA HP/kW SOURCE PANEL CIRCUIT BREAKER (A) PHASE CONDUCTOR(S) CONDUCTOR CONDUCTOR VFD (Y/N) FURNISHED BY DIVISION (23/26) | EQUIPMENT LOCATION  PHASE VOLTS FLA MCA HP/kW SOURCE PANEL CIRCUIT BREAKER (A) PHASE CONDUCTOR(S) CONDUCTOR CONDUIT SIZE VFD (Y/N) FURNISHED BY DIVISION (23/26) UNIT NO. | EQUIPMENT LOCATION PHASE VOLTS FLA MCA HP/kW SOURCE PANEL BREAKER (A) PHASE CONDUCTOR(S) GROUND CONDUCTOR CONDUIT SIZE VFD (Y/N) FURNISHED BY DIVISION (23/26) UNIT NO. SIZE | EQUIPMENT LOCATION PHASE VOLTS FLA MCA HP/kW SOURCE PANEL BREAKER (A) PHASE CONDUCTOR(S) GROUND CONDUCTOR CONDUIT SIZE VFD (Y/N) FURNISHED BY DIVISION (23/26) UNIT NO. SIZE FUSE | EQUIPMENT LOCATION PHASE VOLTS FLA MCA HP/kW SOURCE PANEL BREAKER (A) PHASE CONDUCTOR(S) GROUND CONDUCTOR CONDUIT SIZE VFD (Y/N) FURNISHED BY DIVISION (23/26) UNIT NO. SIZE FUSE NEMA ENCLOSURE |

| NEW HEAT TRACE SCHEDULE |                            |               |                      |             |                              |                        |                        |                                     |          |     |          |         |                                   |       |
|-------------------------|----------------------------|---------------|----------------------|-------------|------------------------------|------------------------|------------------------|-------------------------------------|----------|-----|----------|---------|-----------------------------------|-------|
| EQUIPMENT               | PIPE DIAMETER<br>(NOMINAL) |               | INSULATION THICKNESS | PIPE LENGTH | HEAT TRACE WIRE PROPERTIES   |                        |                        |                                     | LOAD     |     |          | CIRCUIT |                                   |       |
|                         |                            | PIPE MATERIAL |                      |             | MIN. OPERATING TEMP.<br>(°F) | ABOVE / BELOW<br>GRADE | SUGGESTED<br>WIRE TYPE | END TYPE<br>(LIGHTED / NON-LIGHTED) | PHASE VC | LTS | FED FROM | BREAKER | CONDUIT & CONDUCTOR SIZE          | NOTES |
| HEAT TRACE CONTROLLER   |                            |               |                      |             |                              |                        |                        |                                     | 1 2      | 77  | H5S1     | 20      | (2)#12 AWG & (1)#12 GND IN 3/4" C | 1, 2  |
| IDF-S01                 | SEE PIPING DRAWINGS        | CPVC          | SEE PIPING DRAWINGS  | 50          | 50                           | ABOVE                  | 5BTV                   | LIGHTED                             | =1       | -0  | -        |         | -                                 |       |

NOTES:
ALL - CONDUIT AND WIRE SELECTIONS ARE BASED ON EMT AND ONE FEEDER PER CONDUIT. WHERE OTHER THAN EMT IS REQUIRED BY THE SPECIFICATIONS, OR MORE THAN ONE FEEDER/CIRCUIT IS RUN IN ONE CONDUIT, ALL NEC REQUIREMENTS FOR SIZING/DERATING SHALL BE MET.

ALL - BASIS OF DESIGN IS RAYCHEM. ALL OTHER MANUFACTURERS ARE SUBJECT TO APPROVAL BY THE A/E AND OWNER.
ALL - COORDINATE ELECTRICAL REQUIREMENTS WITH MECHANICAL AND PIPING EQUIPMENT SELECTIONS PRIOR TO INSTALLATION. THERE SHALL BE NO CHANGES TO THE PROJECT RESULTING FROM LACK OF COORDINATION.

ALL - PIPE LENGTHS SHALL BE COORDINATED AND CONFIRMED WITH PIPING CONTRACTOR PRIOR TO PURCHASING MATERIAL.
ALL - HEAT TRACE CONTROLLERS SHALL BE EQUIPPED WITH GROUND FAULT PROTECTION.

1. PROVIDE NEW BREAKER IN EXISTING PANEL.

2. USE AT-180 ALUMINUM ADHESIVE TAPE FOR HEAT TRACE CABLING APPLICATION TO PIPE.

GENERAL NOTES

COORDINATE SHUTDOWN OF PANEL H5S1 AND ASSOCIATED LOADS WITH OWNER 1 MONTH PRIOR TO OUTAGE NECESSARY FOR PANEL WORK.

2. REFER TO SHEET E011 FOR LOCATION OF MOTOR CONTROL CENTER 5MCC2 AND PANEL H5S1 ON PLAN.

KEYED NOTES - DEMOLITION

1 PREPARE EXISTING SPACE TO RECEIVE NEW CIRCUIT BREAKER.

KEYED NOTES - NEW WORK

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1 PROVIDE NEW 20A/1P CIRCUIT BREAKER IN EXISTING SPACE. CIRCUIT BREAKER SHALL BE SIZED AS SHOWN AND MATCH THE MANUFACTURER, TYPE, AND INTERRUPT RATING OF H5S1.

GRUMMAN|BUTKUS ASSOCIATES

ENERGY EFFICIENCY CONSULTANTS AND SUSTAINABLE DESIGN ENGINE

1011 North Mayfair Road, Suite 300

1011 North Mayfair Road, Su Wauwatosa, Wisconsin 5322

NO. DESCRIPTION

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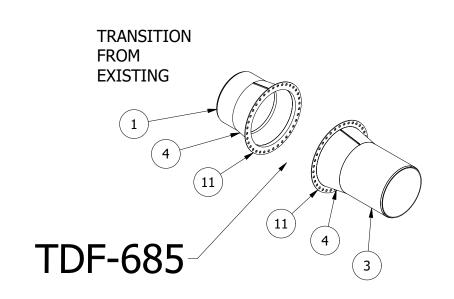


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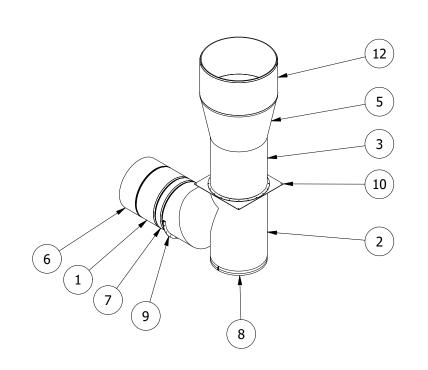
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WEP BASEBALL PARK DISTRICT

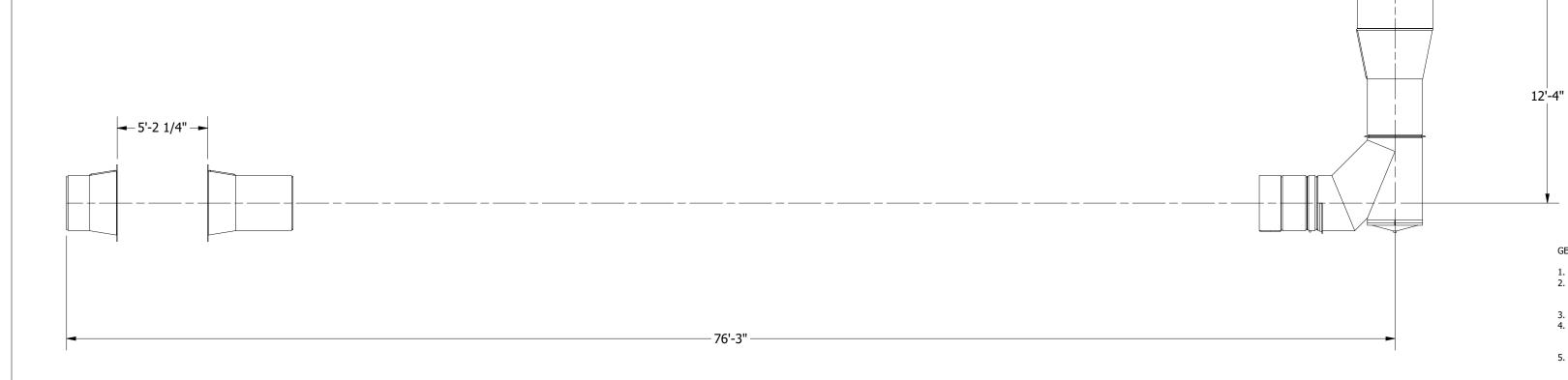
WEP ONE BREWERS WAY, MILWAL

E501



|      |     |                         | PARTS LIST                                    |
|------|-----|-------------------------|---|
| ITEM | QTY | PART NUMBER             | DESCRIPTION                                   |
| 1    | 2   | 36VSI304-18             | 18" Length                                    |
| 2    | 1   | 36VSI304-36:CL          | 36x36 Combination Lateral Tee (45 degree)     |
| 3    | 2   | 36VSI304-42             | 42" Length                                    |
| 4    | 2   | 36VSI304-42:OT          | 36x42 Tapered Increaser                       |
| 5    | 1   | 36VSI304-50:OT          | 36x50 Tapered Increaser                       |
| 6    | 1   | 36VSI304-AG30           | 30" Adjustable Length                         |
| 7    | 1   | 36VSI304-DS             | In-Line Drain Section                         |
| 8    | 1   | 36VSI304-TC             | Tee Cap - Drain                               |
| 9    | 1   | 36VSI-HR                | Painted Steel Half-Angle Ring Support         |
| 10   | 1   | 36VSI-PAINTSTEEL/ALZ-PA | Painted Steel Plate Support Assembly          |
| 11   | 2   | 42VSI316/ALZ-FD         | Flange Adapter (Painted Carbon Steel Flange)  |
| 12   | 1   | 50VSI304-30             | 30" Length                                    |
| 13   | 11  | P-600                   | Low Temperature Sealant (600F) & Weatherizing |





GENERAL NOTES

VERIFY ALL DIMENSIONS & PARTS PRIOR TO RELEASING FOR FABRICATION.
 ALL SUPPORTS & GUIDES SHALL BE ANCHORED BACK TO THE BUILDING STRUCTURE BY THE INSTALLER.
ADDITIONAL FIELD FRAMING IS REQUIRED PER THE IOM (INSTALLATION INSTRUCTIONS) FOR PART CODES:

PA, FR, HR, SS

3. ALL DRAIN LINES ARE SUPPLIED BY THE INSTALLER

4. INNER WALL V-BAND CONNECTIONS TO RECEIVE SEALANT P-600 (CONTINUOUS FLUE TEMP ≤ 600°F) OR
P-2000 (CONTINUOUS FLUE TEMP > 600°F). OUTER WALL JOINT BANDS AND COVERS EXPOSED TO WEATHER
ARE TO BE FULLY SEALED WITH P-600.

5. IF APPLICABLE, VARIABLE LENGTHS/ADJUSTABLE LENGTHS (VL/AG) CAN BE FIELD TRIMMED AS NECESSARY
PER THE IOM. ENSURE THE CORRECT DIRECTION OF THE VL/AG PER APPLIANCE APPLICATION AS STATED IN
THE IOM.

REFERENCE THE IOM FOR SPECIFIC APPLICATION DETAILS SUCH AS CLEARANCES TO COMBUSTIBLES,
 PROPER SEALANT USE, WEIGHT LOADS, GUIDE/SUPPORT DISTANCES AND OTHER CRITICAL INSTALLATION

| TOLERANCE                     | <b>A</b> AMPCO       |                           |         |             |           |                        |  |  |  |
|-------------------------------|----------------------|---------------------------|---------|-------------|-----------|------------------------|--|--|--|
| UNLESS                        | Commercial/Industria | al Air Distribution S     | systems |             | Grand Rap | Grand Rapids, Michigan |  |  |  |
| SPECIFIED                     | MATERIAL TYPE:       |                           |         |             |           |                        |  |  |  |
|                               | MODEL: VSI           |                           |         | INNER: 304  |           |                        |  |  |  |
|                               | INSULATION: 1"       | Air                       |         | OUTER: ALZ  |           |                        |  |  |  |
| ANGULAR ±2~<br>FRACTION ±1/16 | REPRESENTATIVE:      |                           |         |             |           |                        |  |  |  |
| V V 10.050                    | TITLE:               | TITLE: AFF Boiler Exhaust |         |             |           |                        |  |  |  |
| X.X ±0.050<br>X.XX ±0.020     | DWN. BY: KKirby      |                           |         | APPR:       |           | SHEET NO:              |  |  |  |
| X.XXX ±0.010                  | DATE: 5/5/2025       |                           |         | DATE:       |           | 1/1                    |  |  |  |
|                               | SCALE:               | DWG. NO:                  |         | •           |           | SHEET SIZE:            |  |  |  |
|                               | 3/16" = 1'-0"        |                           | D/      | VG25-1271-2 |           | 17 X 22<br>(Inches)    |  |  |  |

THE ITEM(S) CONTAINED IN THIS BILL OF MATERIALS WILL BE BUILT SOLELY FOR THIS JOB. THEREFORE, THIS DOCUMENT MUST BE FIELD VERIFIED AND/OR APPROVED BEFORE THE ORDER WILL BE ENTERED FOR MANUFACTURING.

APPROVAL SIGNATURE ...... TITLE HELD ...... DATE OF APPROVAL .....

WHEN PLACING A PO FOR THIS EXHAUST SYSTEM, PLEASE ASK FOR PIPE PARTS TO BE TAGGED TO ENSURE PROPER SEQUENCE OF INSTALLATION.

# **ENERVEX**® **EBC 31 MODULATING PRESSURE CONTROLLER**

020.3060.0521 05.21

#### **Product Information**

#### Use

The EBC 31 is a multi-use, bi-directional draft or pressure controller with integrated webserver and remote access used with fans and dampers to monitor and maintain a constant draft or pressure by varying the speed of a fan(s) or the position of an actuator. It can be used with models RSV, IPVB, TDF, BEF and MDF.

Typical applications are:

- Maintain a constant draft by modulating a power venter in a mechanical draft system serving boilers and water heaters
- Maintain a constant draft by modulating position of an overdraft damper serving boilers and water heaters
- Maintain a constant duct pressure in a dryer venting system or a ventilation system
- Control the supply of combustion air to a mechanical room or directly to a boiler(s)
- Control and maintain room pressure

#### **Description**

The EBC 31 features "Plug-n-Play" to automatically monitor all terminals and register components attached to the control during initial start-up. The control can provide a 0-10V signal to a Variable Frequency Drive (VFD) or actuator. An optional triac board can supply 0-120VAC power directly to the mechanical draft fan or air supply ventilator. An optional damper PCB can provide the ability to control an exhaust fan, an intake fan and a draft damper simultaneously. It can interlock with up to 6 heating appliances, and an unlimited number of additional heating appliances can be handled by using one or more ES12, Relay Box.

The control has an integrated safety system to assure the heating appliance will shut down in case of fan failure or control failure. A unique priority operation function will probe the operating conditions and allow as many appliances as possible to operate without fan assistance, provided the operation is considered safe by the integrated safety system.

The EBC 31 can be set up for intermittent operation so it prepurges the stack prior to the boiler(s) start and post-purges up to 30 minutes after boiler stop. Alternatively, it can be set up for continuous operation where the fan runs continuously but modulates and runs at idle speed, if no appliances are operating.



The EBC31 can be configured either by using the LCD dot display and buttons, or by using the integrated webserver, which also allows remote monitoring and firmware upgrades. Two RS485 ports can be used for and BACnet communication, and one expansion board can be used for future hardware upgrades.

A bearing cycle activation rotates the fan motor(s) once every 24 hours if the fan(s) has not operated within the last 24 hours.

#### **Material**

The enclosure is made in steel and is NEMA 1 rated.

#### **Standard Equipment**

- Control box
- XTP Sensor
- · 6' Silicone tubing
- Stack probe

#### Listings

The EBC 31 is ETL Listed in the U.S. and Canada under file no. 101223937ATL:

- UL 60947 Standard for Industrial Control Equipment
- UL 378 Standard for Draft Equipment
- CSA C22.2 No. 14-95 Standard for Industrial Control Equipment

#### Warranty

2-Year Factory Warranty. Complete warranty conditions are available from ENERVEX Inc.



ENERVEX Inc.





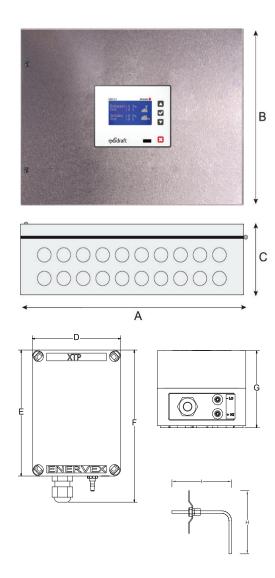
# ENERVEX® EBC 31 MODULATING PRESSURE CONTROLLER

020.3060.0521 05.21

**Product Information** 

#### **Specifications**

| Model                                       |           | EBC31 Control               |  |  |  |  |
|---|-----------|-----------------------------|--|--|--|--|
| Power Supply                                | VAC       | 1x120                       |  |  |  |  |
| Max. Amperage with/with-<br>out Triac Board | А         | 1.6 / 7.9                   |  |  |  |  |
| Operating Temperature                       | °C / °F   | -20 to 50 / -4 to 122       |  |  |  |  |
| Range of Operation                          | inWC/Pa   | -4.0 to +4.0 / -996 to +996 |  |  |  |  |
| Tolerance                                   | inWC/Pa   | 0.01 / 3 +/-10%             |  |  |  |  |
| Control Signal                              | mA        | max. 10                     |  |  |  |  |
| Control Relay                               |           | Max. 250 VAC / 8A           |  |  |  |  |
| Output with Triac Board                     | VAC       | 10-120                      |  |  |  |  |
| Output to VFD                               | VDC       | 0-10                        |  |  |  |  |
| EMC Standard                                | Emission  | EN 50 081-1                 |  |  |  |  |
|   | Immunity  | EN 50 082-2                 |  |  |  |  |
|   | A in / mm | 14.7 / 372                  |  |  |  |  |
| Dimensions                                  | B in / mm | 11.0 / 280                  |  |  |  |  |
|   | C in / mm | 4.2 / 107                   |  |  |  |  |
| Weight                                      | lbs/Kg    | 8.9 / 4.0                   |  |  |  |  |
|   | XTP Sens  | sor                         |  |  |  |  |
| Power Supply                                | VDC       | 12-36                       |  |  |  |  |
| Amperage                                    | mA        | 6                           |  |  |  |  |
| Operating Temperature                       | °C/°F     | -17 to 70 / -0 to 160       |  |  |  |  |
| Range of Operation                          | inWC/Pa   | -1.0 to +1.0 / -250 to +250 |  |  |  |  |
| Accuracy                                    | inWC/Pa   | +/-0.08%                    |  |  |  |  |
|   | D in / mm | 3.7 / 94                    |  |  |  |  |
| Dimensions                                  | E in / mm | 5.1 / 130                   |  |  |  |  |
|   | F in / mm | 6.2 / 157                   |  |  |  |  |
| Weight                                      | lbs/Kg    | .6 / .3                     |  |  |  |  |
|   | Stack Pro | bbe                         |  |  |  |  |
| Dimensions                                  | H in / mm | 4.3 / 108                   |  |  |  |  |
| Dimensions                                  | I in / mm | 3.5 / 89                    |  |  |  |  |



# ENERVEX® TDF 685 POWER VENTER

020.1098.0621 07.23

**Product Information** 

#### Use

The TDF Power Venter is a true in-line power venter. It is specifically designed for applications where reliable and efficient operation, low noise level, low energy consumption, variable speed and compact design are of utmost importance.

Typical applications are: mechanical venting of gas-fired or oil-fired boilers and water heaters. For indoor or outdoor installation.

#### **Description**

The TDF Power Venter is an efficient, high-temperature ventilator with backward-inclined impeller. It can be installed horizontally or vertically in a chimney system.

The fan housing is made of stainless steel and equipped with an energy-efficient, totally enclosed, variable speed motor, which is mounted outside the air stream.

The complete drive unit (motor, impeller and mounting plates) can be removed from the fan without the need for removing the housing from the stack system.

The TDF is for use with condensing and non-condensing appliances operating where flue gas temperatures do not exceed 1400°F (760°C).

The TDF model is a component in the CASI, Chimney Automation System.



The housing is made of 316L stainless steel and has flanged connection. The impeller is of the backward inclined type made of 316L stainless steel.

#### Motor

The motor is a TEFC air cooled, maintenance-free variable speed permanent magnet motor with pre-lubricated and sealed ball bearings and a Class H temperature rating. The motor with controller is rated at 92% efficiency and able to operate as low as 50 RPM. It has integrated protection against overloading, blocking over and under voltage and over-heating. The motor shaft is internally isolated to eliminate the need for external shaft grounding. It is rated for outdoor installation.

The included EDrive motor control (NEMA4X) is factory programmed by ENERVEX for optimal operation of the ventilator.

#### **Standard Equipment**

- EDrive Motor Control
- V-Bands (where used)





#### **Optional Accessories**

- EBC 30/31 Modulating Pressure Controller
- EBC 35 Modulating Pressure Controller
- EBC 24 Modulating Pressure Controller
- BDC 8 Modulating Pressure Controller
- Adapter Transitions

#### Listings

UL Listing under Category MCQX and ZACT under File No. E467733 and reference to the following standards:

- UL 378 Standard for Draft Equipment Edition 4
- UL 705 Standard for Power Ventilators Edition 6
- CSA C22.2 No. 113-12 Fans and Ventilators Edition 9
- ULC/ORD-C378-75 Guide for the Investigation of Draft Equipment Edition 1

#### Warranty

- 2-Year Factory Warranty
- 10-Year Warranty Against Corrosion Perforation

Complete warranty conditions are available from ENERVEX Inc.

Specifications are subject to change without notice.



# **ENERVEX**° **TDF 685 POWER VENTER**

020.1098.0621 07.23

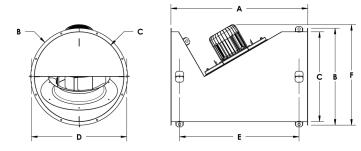
#### **Product Information**

#### **Specifications**

| Model                      | TDF 685                        |
|----------------------------|--------------------------------|
| Fan Type                   | Centrifugal Impeller (B-Wheel) |
| Motor Type                 | ECM, Permanent Magnet          |
| Voltage Configuration      | 3 x 380-480 VAC                |
| EDrive Model               | 321.0921.4200                  |
| EDrive Ratings:            |                                |
| NEMA / IP Rating           | 4X / IP66                      |
| Supply Voltage - VAC       | 3 x 380-480                    |
| Power - kW                 | 22.0                           |
| Max Input Current - Amp    | 51.9                           |
| Max Output Current - Amp   | 46.0                           |
| Max Over-Current - %       | 175                            |
| Min Operating Temp °F / °C | -4 / -20                       |
| Max Operating Temp °F / °C | 104 / 40                       |
| Motor Ratings:             |                                |
| Motor Efficiency Class     | IE5                            |
| Temperature Class          | Н                              |
| NEMA / IP Rating           | 3S / IP55                      |
| Max Current - Amp          | 38                             |
| Max Speed - RPM            | 1750                           |
| Power - kW / HP            | 22.2 / 29.8                    |
| Torque - Nm                | 145                            |
| Motor Operating Settings:  |                                |
| Fan Speed - RPM            | 1740                           |
| Max Power - kW / ~ HP      | Not Available                  |
| Max Torque - Nm            | Not Available                  |
| Weight:                    |                                |
| TDF - lbs / kg             | 682 / 310                      |
| EDrive - lbs / kg          | 20.9 / 9.5                     |

Note: Use EDrive Ratings Data for Circuit Sizing

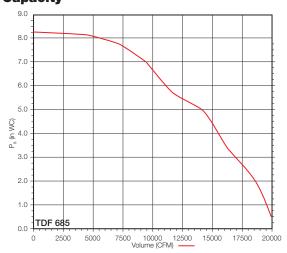
#### **Dimensions**



| Model          |                |         | TDF 685                  |
|----------------|----------------|---------|--------------------------|
| Duct Connecti  | on             |         | 1 1/2" flange w 16-holes |
|                | А              | in / mm | 62.3 / 1582              |
| Dimensions     | В              | in / mm | 45.0 / 1143              |
|                | С              | in / mm | 42.0 / 1067              |
|                | D              | in / mm | 44.4 / 1128              |
|                | E              | in / mm | 55.3 / 1404              |
|                | F              | in / mm | 54.3 / 1379              |
| Flange Bolt Ce | enter Diameter | in / mm | 43.7 / 1110              |
| Temp Rating*   |                | °F/°C   | 1400 / 760               |

<sup>\*</sup> Maximum Intermittent Temperature Rating

#### **Capacity**



Specifications are subject to change without notice.



# ENERVEX® MDF MODULATING DAMPER

#### 010.20801.0619 06.19

#### **Product Information**

#### Use

The MDF is a ruggedly built, motorized, multi-blade damper. It is used for controlling excessive draft in a mechanical draft system serving boilers and water heaters. It is for installation with gasfired or oil-fired equipment only.

#### **Description**

The MDF damper is manufactured to connect to chimneys with a standard 1/2" flanged connection. It is equipped with an actuator attached to the damper shaft. It is of an opposed blade design to assure an extremely accurate control of the flow.

The MDF assembly is rated for temperatures up to 1400°F (760°C).

The MDF must be installed with sufficient clearance above the boiler outlet to allow for damper protrusion into the stack when fully open.

The actuator uses a brushless DC motor that operates on 24VAC/VDC, which is controlled by an Application Specific Integrated Circuit (ASIC). The ASIC monitors and controls the actuator's rotation and provides a digital rotation sensing (DRS) function to prevent damage to the actuator in a stall condition. Power consumption is reduced in a holding mode.

The motor delivers 54 in-lbs (or 6 Nm) torque at rated voltage and is custom configured for the damper. The minimum duration through the 95° operating angle is 15 seconds. An integrated safety system monitors the damper position to prevent unsafe operating conditions.

#### Material

The damper housing is made of 20 GA (4"-36" diameter) or 18 GA (38" - 48" diameter) 316L stainless steel. The damper blades are made of 16 GA 316L stainless steel. The 1/2" damper shaft is 316L stainless steel and has stainless steel bearings.

#### **Standard Equipment**

• V-bands

#### **Optional Equipment**

· Weather proof enclosure for actuator



UL File E467733

ENERVEX Inc. 1685 Bluegrass Lakes Parkway Alpharetta, GA 30004

P: 770.587.3238 F: 770.587.4731 T: 800.255.2923 info@enervex.com www.enervex.com



#### Listings

The MDF damper assembly (damper with actuator) is UL listed in the US and certified for Canada under Underwriters Laboratories Inc. file no. E467733:

- UL 378 Standard for Draft Equipment
- UL 17 Standard for Vent or Chimney Connector Dampers for Oil-Fired Appliances
- ANSI Z21.66-1966 Automatic Vent Damper Devices For Use With Gas-fired Appliances
- ULC/ORD-C378 (1975) Draft Equipment

Damper meets AMCA Standard 500.

#### Warranty

2-Year Factory Warranty. Complete warranty conditions are available from ENERVEX Inc.



# **ENERVEX® MDF MODULATING DAMPER**

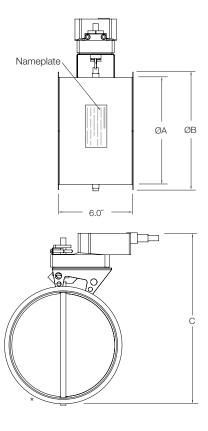
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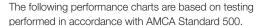
#### **Product Information**

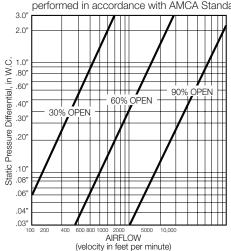
#### **Specifications**

| Model  | Stack ID in / mm | Dim. A<br>in / mm | Dim. B<br>in / mm | Dim. C<br>in / mm | #<br>Blades |
|--------|------------------|-------------------|-------------------|-------------------|-------------|
| MDF 4  | 4                | 3.94 / 100        | 4.88 / 124        | 8.86 / 225        | 1           |
| MDF 6  | 6                | 5.91 / 150        | 6.85 / 174        | 10.83 / 275       | 1           |
| MDF 8  | 8                | 7.87 / 200        | 8.82 / 224        | 12.80 / 325       | 1           |
| MDF 10 | 10               | 9.84 / 250        | 10.79 / 274       | 14.76 / 375       | 1           |
| MDF 12 | 12               | 11.81 / 300       | 12.76 / 324       | 16.73 / 425       | 2           |
| MDF 14 | 14               | 13.78 / 350       | 14.72 / 374       | 18.70 / 475       | 2           |
| MDF 16 | 16               | 15.75 / 400       | 16.69 / 424       | 20.67 / 525       | 2           |
| MDF 18 | 18               | 18.00 / 457       | 19.00 / 483       | 23.00 / 584       | 3           |
| MDF 20 | 20               | 20.00 / 508       | 21.00 / 533       | 25.00 / 635       | 3           |
| MDF 22 | 22               | 22.00 / 559       | 23.00 / 584       | 27.00 / 686       | 3           |
| MDF 24 | 24               | 24.00 / 610       | 25.00 / 635       | 29.00 / 737       | 3           |
| MDF 26 | 26               | 26.00 / 660       | 27.00 / 686       | 31.00 / 787       | 4           |
| MDF 28 | 28               | 28.00 / 711       | 29.00 / 737       | 33.00 / 838       | 4           |
| MDF 30 | 30               | 30.00 / 762       | 31.00 / 787       | 35.00 / 889       | 4           |
| MDF 32 | 32               | 32.00 / 813       | 33.00 / 838       | 37.00 / 940       | 4           |
| MDF 34 | 34               | 34.00 / 864       | 35.00 / 889       | 39.00 / 991       | 4           |
| MDF 36 | 36               | 36.00 / 914       | 37.00 / 940       | 41.00 / 1041      | 5           |

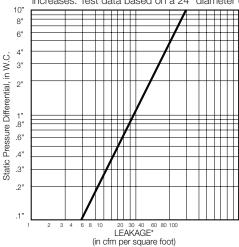
Other sizes available upon request.







\*This chart should be used for general reference purposes. Leakage through the damper will increase as the diameter increases. Test data based on a 24" diameter damper.



Specifications are subject to change without notice.







#### **APPENDIX B**

Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract

# GENERAL CONDITIONS TO CONSTRUCTION SERVICES CONTRACT WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT ("DISTRICT")

#### **Article 1 GENERAL PROVISIONS**

#### 1.1 The Contract

The Contract represents the entire agreement between the parties and supersedes all prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a written modification signed by authorized representatives of both parties.

#### 1.2 The Contract Documents

The Contract shall consist of these General Conditions, a signed Purchase Order issued by the District, a signed accepted bid or proposal, drawings, shop drawings, specifications, schedule and addenda, as applicable (collectively, the "Contract Documents"). The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. Where there is conflict in provisions between general provisions in individual contract documents, the terms and conditions of these General Conditions shall control. In case of any conflict in provisions in the individual contract documents that are specific to the Work, (e.g., specifications, deadlines, etc.), the most stringent specification and earliest deadlines shall govern.

#### 1.3 The Ownership of Contract Documents

All documents, reports, data, drawings, specifications and other materials prepared by the Contractor for performance of the Work (the "Documents") are instruments of the Contractor's Work, and are for use solely with respect to this Project. All Documents shall be the property of the District, or, where applicable, of the Brewers ("Instruments of Service"). Upon payment of all sums approved by the District as being due the Contractor, the District, or, where applicable, the Brewers, shall own all common law, statutory, and other reserved rights, in addition to the copyrights, in and to the Instruments of Service. Contractor shall not withhold delivery of the Instruments of Service on account of any dispute with the District, or, where applicable, the Brewers, including a dispute over any sums claimed due and owing by Contractor. The Instruments of Service are not to be used by the Contractor or any subcontractor on any other project without written consent of the District, or, where applicable, the Brewers, which may be withheld in the District's or the Brewer's sole discretion.

#### **Article 2 THE DISTRICT**

#### 2.1 Duties

The District shall provide any site information in its possession related to the construction site. Except for Permits as defined in Section 3.8 below, the District shall obtain and pay for all necessary approvals, easements, special assessments and charges. The furnishing of any information by the District shall not relieve Contractor of any duty under the Contract Documents. Contractor shall notify the District within three (3) business days following discovery of any discrepancy between the information provided and actual site conditions. Failure to notify the District within such time shall constitute a waiver of any claim relating to the condition so discovered.

#### 2.2 Right To Stop Work

If Contractor fails to correct Work that is not in accordance with the Contract Documents, or has failed to carry out Work in accordance with the Contract Documents, the District may direct Contractor in writing to stop the Work, or any part thereof, until the correction is made.

#### 2.3 Right To Carry Out The Work

If Contractor neglects or fails to carry out the Work in accordance with the Contract Documents, after written notice as set forth in Section 10.7 hereof, in addition to any other rights the District has, the District may enter into contracts with other parties to complete, repair or replace the incomplete or defective Work, and may deduct from payments then or thereafter due Contractor the cost of correcting the deficiencies, including compensation for additional architectural services, legal fees, and other expenses that may be made necessary by the default of Contractor. If payments then or thereafter due Contractor are not sufficient to cover the costs of correcting the deficiencies, Contractor shall pay the District the difference no later than ten (10) days after the District's demand. Any amount not paid by Contractor when and as due shall be subject to interest at the rate of 18% per annum from the due date.

#### **Article 3 CONTRACTOR**

#### 3.1 Duties

Contractor shall be responsible for providing all labor and materials as set forth on the accepted bid/proposal and in the Contract Documents (Work). Unless specifically excluded from the scope of the Work, Contractor shall be responsible for paying for all labor, materials, tools, utilities, transportation, as well as taxes thereon, and other facilities and services necessary to properly complete the Work. Execution of this agreement by Contractor is a representation that Contractor has studied the Contract Documents, visited the site, become familiar with the local conditions, and verified the grades, dimensions, elevations, and locations of existing conditions at the site.

#### 3.2 Subcontracts and Subcontractors

Contractor shall contract with subcontractors as Contractor deems necessary for completion of the Work, and shall be responsible for the Work performed by such subcontractors as though the Work was performed by Contractor. Contractor shall provide advance written notice to the District of selected subcontractors. The District will provide in writing any reasonable objection to the subcontractors. The foregoing notwithstanding, the District shall have no responsibility for the acts, omissions or breach of contract of any subcontractor. Every Subcontract shall require the Subcontractor to be bound by the terms of the Contract Documents, and to assume to the Contractor all obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor assumes herein to the District. Contractor shall require its subcontractors and vendors to provide similar insurance as required and include the District, any mortgagee, and the Project Administrator, and their respective successors, as additional insured and hold such parties harmless for their negligence.

#### 3.3 Supervision

The Contractor shall be responsible for all means and methods of construction of the Work, and shall supervise and direct its own employees and all subcontractors, using its best skill and attention. Contractor shall be responsible for ensuring the Work, including the Work performed by all subcontractors, strictly complies with the Contract Documents.

#### 3.4 Coordination

Certain portions of the Work may be completed by contractors hired directly by the District. Contractor shall be responsible for coordinating its Work on the Project, including coordinating deliveries, storage, installations, and use of utilities with such contractors.

#### 3.5 Safety and Security

Contractor shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on the Work, including all applicable safety laws, standards, rules and regulations, and shall take all necessary precautions for the safety of, and shall provide all necessary protection to prevent injury to, or loss to all persons, the Work, materials, equipment, and other property at the site or adjacent thereto. Contractor shall, in the performance of its duties, be responsible for initiating, maintaining and supervising all safety precautions and programs, including those required by law or in conjunction with any governmental authority. Contractor shall promptly report to Project Administrator and the District all accidents arising out of or in connection with the performance of the Work, giving full details including statements of witnesses. Contractor shall promptly remedy any damage, injury or loss to property, as well as any condition posing undue threat of damage, injury or loss, at the site caused by the Contractor, subcontractors, or anyone else directly or indirectly associated with such condition. Contractor shall secure the construction site, limiting access to authorized personnel only. The use of a drone anywhere on the ballpack site or within the ballpark facility requires prior written consent from the District, which may be withheld in the District's sole discretion and may be limited to specific date(s) and time(s) of use.

#### 3.6 Quality

Unless specifically provided in the Contract Documents, all materials incorporated into the Work shall be new and meet the specifications for the Project. Upon the District's request, Contractor shall promptly provide the product labels and delivery slips for materials incorporated into the Work.

#### 3.7 Warranty

Contractor warrants that: (1) materials and equipment furnished by Contractor will be of good quality and new; (2) the Work will be free from defects in workmanship, material, and design; (3) the Work will conform to the applicable specifications, drawings, designs, samples, and other requirements of the Contract Documents; (4) the Work will be fit for their intended purpose and operate as intended; (5) be free and clear of all liens, security interests or other encumbrances; (6) not infringe or misappropriate any third party's patent or other intellectual property rights; and (7) it shall perform the Work using personnel of required skill, experience and qualifications and in a professional and workmanlike manner in accordance with best industry standards for similar services and shall devote adequate resources to meet its obligations hereunder and under any Contract Documents. These warranties survive any delivery, inspection, acceptance, or payment of or for the Work by the District. Contractor warrants that the Work shall be free from defects in material and workmanship arising from normal usage for a period of one year from the Substantial Completion Date and that its Work will be free from defects in workmanship, design and material until the end of the Term, or for one year, whichever is later. Establishment of this one year period period for correction of defective Work does not affect or in any way limit the applicable statutory limitations or statute of repose periods. Upon written notice from the District, Contractor shall, at its option, repair or replace the defective Work or re-perform defective services. These warranties do not extend to any Work or services that have been abused, altered, misused, or repaired by the District or third parties without the supervision of and prior written approval of Contractor; or if Contractor serial numbers or warranty date decals have been removed or altered. The District must promptly report any failure of the equipment to Contractor in writing.

The warranties set forth in this Section 3.7 are cumulative and in addition to any other warranty provided by law or equity. Any applicable statute of limitations runs from the date of the District's discovery of the noncompliance of the Work or services. If Contractor installs or furnishes a piece of equipment under the Contract, and that equipment is covered by a warranty from the manufacturer, Contractor will transfer the benefits of that manufacturer's warranty to the District if the Contract with the District terminates before the equipment manufacturer's warranty expires.

#### 3.8 Permits

Contractor shall pay for and obtain all building permits, governmental fees, licenses and inspections necessary for proper completion of the Work (collectively, "Permits"). Contractor shall give all required notices to all governmental agencies having jurisdiction over the Work.

#### 3.9 Hot Work

Contractor acknowledges and agrees that if any Hot Work (any operation involving open flames or producing heat and/or sparks conducted outside a Hot Work Designated Area) is required as part of the Work, a Hot Work Permit provided by FM Global will be required prior to commencement of any Hot Work. Contractor further acknowledges and agrees that it will be required to either: (1) bring a completed Hot Work Permit to American Family Field, or (2) complete a Hot Work Permit at American Family Field on the date which Work is to be provided.

#### 3.10 Construction Site Pollution Control

Prior to any land disturbance Work commencement, Contractor shall supply an erosion and sediment control plan, details, notes, and necessary sequencing plan to the District that Contractor shall implement to comply with the Construction Site Erosion & Sediment Control Standards applicable to the Work. The plan shall outline all necessary DNR approved technical standards related to erosion/sediment control and/or storm water management that the Contractor will implement, maintain, and inspect as required throughout the duration of construction until final restoration (as needed) is achieved. The Contractor shall be responsible for the proper design; and the Contractor shall be responsible for the proper installation, inspection and repair/maintenance of the erosion/sediment control measures and/or storm water management measures and shall document records of inspections (on DNR inspection reports:

http://dnr.wi.gov/topic/stormwater/construction/forms.html) and records of repair/maintenance activities in daily logs during the Work in accordance with ch. NR 151 and ch. NR 216, Wisconsin Administrative Code. The inspection reports and repair/maintenance logs shall be kept on-site in an accessible location along with the approved erosion and sediment control plan, details, notes and sequencing plan.

Contractor shall not permit any Hazardous Materials to be deposited, stored, disposed, placed, generated, manufactured, buried, refined, transported, treated, discharged, handled, exacerbated, or located on District property. Contractor shall promptly notify the District of the discovery of any Hazardous Material on the District property, recommend appropriate action, and implement and supervise the course of action approved or directed by the District. For purpose of this Contract, "Hazardous Materials" means any hazardous, toxic, or harmful substances, wastes, materials, pollutants, or contaminants (including, without limitation, asbestos, lead-based paint, polychlorinated biphenyls, petroleum products, flammable explosives, radioactive materials, infectious substances, or raw materials which include hazardous constituents) or any other substances or materials which are included under or regulated by Environmental Laws, or any molds, spores, fungi, or other harmful microbial matter. "Environmental Laws" means any federal, state, or local law, rule, or regulation

pertaining to environmental regulation, contamination, remediation, or cleanup, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (42 U.S.C. § 9601 et seq. and 40 CFR § 302.1 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. § 6901 et seq.), the Federal Water Pollution Control Act (33 U.S.C. § 1251 et seq. and 40 CFR § 116.1 et seq.), those relating to lead based paint, the Hazardous Materials Transportation Act (49 U.S.C. § 1801 et seq.), and the regulations promulgated pursuant to said laws, all as amended.

#### 3.11 Schedule

If indicated in the Signed Purchase Order or as otherwise required by the Contract Documents, before it starts construction, Contractor shall provide to the District and obtain the District's approval of a schedule of performance of the Work, showing the critical path and milestones for completion of the Work according to the Contract Documents. The District shall note any deficiencies in scheduling prior to accepting the schedule.

#### 3.12 Clean-Up

Contractor shall keep the premises and surrounding area free from debris and trash related to the Work. Contractor shall be responsible for daily clean-up of construction materials, debris and dust control. Upon completion of the Work, Contractor shall provide a final clean-up of all surfaces.

#### 3.13 Indemnity

To the fullest extent permitted by law, Contractor shall indemnify, defend and hold harmless the District, the Project Administrator, the Milwaukee Brewers Baseball Club, L.P. (the "Brewers"), Major League Baseball, and the directors, authorized representatives, consultants and agents of each ("Indemnitees") from and against all claims, liabilities, costs, damages, losses, payments, judgments, and expenses including, but not limited to, reasonable attorneys' fees and other litigation expenses (collectively, "Losses"), arising out of or resulting from: (a) bodily injury, death of any person, sickness, disease, or damage to real property resulting from the willful, fraudulent, or negligent acts or omissions of Contractor or Contractor personnel and subcontractors; or (b) Contractor's breach of any representation, warranty, or obligation of Contractor set forth in the Contract (including, without limitation, any violation of applicable safety laws described in Section 3.5, above or environmental requirements as described in Section 3.10 above). This obligation is in addition to any other obligations set forth herein or under applicable law. In claims against any person or entity indemnified under this Subsection 3.13 by an employee of the Contractor, anyone directly or indirectly employed by Contractor, or anyone for whose acts Contractor may be liable, the indemnification obligation under this Section shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts.

Contractor shall defend, indemnify, and hold harmless the Indemnitees from and against all Losses based on a claim that any of the Work or the District's receipt or use thereof infringes or misappropriates the patent, copyright, trade secret or other intellectual property right of any third party. In no event shall Contractor enter into any settlement without the District's or Indemnitee's prior written consent.

The provisions of this Section 3.13 will survive the expiration or earlier termination of the Contract.

#### **Article 4 PROJECT ADMINISTRATOR**

The District's Project Administrator, or such other person or entity designated by the District ("Project Administrator"), will provide administration of the Contract. The Project Administrator will visit the site at regular intervals, and based upon the observations made, will evaluate Contractor's invoice and certify the amount due. The Project Administrator will have the authority to reject non-conforming or defective Work. The Project Administrator will promptly interpret and advise concerning the Contractor's performance of the requirements of the Contract Documents.

#### **Article 5 TIME AND SCHEDULE**

TIME IS OF THE ESSENCE as to completion of the Work according to the Contract Documents. If Contractor is delayed at any time in the progress of the Work, the time for performance may be extended by a revised Purchase Order approved by the District in its sole discretion. Contractor shall give notice of the delay within five (5) days of the occurrence giving rise to the delay, stating the period of time the occurrence is expected to continue. No other extensions of time shall be approved. The date of commencement of the construction ("Commencement Date") and the date upon which Contractor shall achieve Substantial Completion ("Substantial Completion Date") are set forth in the Purchase Order.

#### **Article 6 COSTS, PAYMENT AND COMPLETION**

#### 6.1 Contract Sum

The Contract Sum is the total amount payable by the District to the Contractor for the full and complete performance of the Work under the Contract Documents. Without limitation, the Contract Sum includes: (i) all subcontractors' Work (including any mark-up on subcontractors' Work); (ii) all self-performed work; (iii) the costs of all materials and supplies; (iv) the costs of all equipment; (v) all labor necessary to perform the Work; (vi) the costs of all bonds and insurance required to be furnished and/or provided by Contractor under the Contract Documents; (vii) the costs of all Permits; (viii) any and all other direct or indirect costs; and (ix) Contractor's fee, profit and/or recoverable overhead. As indicated in the Purchase Order, the Contract Sum shall either be in the form of a "Lump Sum", "Actual Cost - Not to Exceed" (which Contractor shall submit to the District), or such other method of payment as agreed upon by the District and Contractor.

#### 6.2 Invoicing

Contractor shall submit invoice(s) to the District that shall be on a form acceptable to the District. Each invoice shall be supported by work logs and other data substantiating the Contractor's right to payment. Contractor shall submit with each invoice a conditional waiver and release of lien for the Contractor and for each subcontractor and material supplier who has furnished labor, equipment, materials, or services to the Project for the period covered by the invoice. The Project Administrator will review the invoice as set forth in Article 4 above, and will authorize payment as long as there are no outstanding liens or claims and so long as the Work has been performed in accordance with the Contract Documents. Contractor shall further warrant that, upon submittal of an invoice: (i) title to all Work covered by the invoice will pass to the District no later than the time of payment; and (ii) all Work for which invoices have previously been paid by the District shall be paid to all subcontractors to whom payments are due and that the Project is free and clear of any and all liens, claims, security interests or other encumbrances adverse to the District. All invoices will be delivered via email and are due net 30 days from of the District's receipt of the invoice, including all required supporting documentation, except for any amounts disputed by the District in good faith. The parties shall seek to resolve all such

disputes expeditiously and in good faith. Contractor shall continue performing obligations notwithstanding any such dispute.

#### 6.3 Progress Payments

Neither the District nor the Project Administrator shall be responsible for direct payment of any monies to subcontractors or material suppliers. Issuance of a Certificate for Payment, or occupancy or use of the Project by the District, shall not constitute acceptance of Work that is not in conformance with the requirements of the Contract Documents. Notwithstanding the above, the District reserves the right to make payments in the event of any default by the Contractor to any subcontractor in such amount as the District determines necessary to protect the District's interests from lien or other claim. Payment of any such amounts directly to a subcontractor shall be credited against amounts otherwise due Contractor.

#### 6.4 Substantial Completion

Substantial Completion occurs when the Work is sufficiently complete in accordance with the Contract Documents such that the District can occupy or use the Work for its intended purpose and when all required occupancy permits have been issued and delivered to the District. Upon Substantial Completion, as determined by the Project Administrator, the District shall make payment, excepting only such Work as required to complete the punch list. When Contractor Substantially Completed the Work in all material respects, Contractor shall notify the District in writing of such completion. Contractor shall promptly meet with the District after the date of Contractor's notice of its completion of the Work to inspect the premises and prepare with the District a "punch list" of corrections of construction that are required to cause any applicable portion of the Work to conform with the Contract Documents in all material respects. Contractor shall within fifteen (15) days cause all items on the punch list to be completed or remedied.

#### 6.5 Final Completion

Upon receipt of a final invoice, the Project Administrator will inspect the Work, and if the Project Administrator finds the Work acceptable and the Contract fully performed, will approve final payment. Final payment shall not become due until the Contractor submits to the District release and final lien waivers satisfying all obligations, claims, security interests, or other encumbrances arising out of the Contract, together with all warranties, guarantees, record documents including all drawings, plans, specifications, maintenance manuals, or other documents provided by the Contractor or material suppliers. Acceptance of final payment by the Contractor shall constitute a waiver of all claims by the Contractor except those previously made in writing and unsettled as of the time of the final invoice submittal.

#### **Article 7 CHANGES IN THE WORK**

Changes in the Work shall be accomplished only through a revised Purchase Order. Contractor shall provide documentation justifying the adjustment to the Contract Sum before commencement of any Work specified in the revised Purchase Order. Any request for an extension of Contract Time shall be accompanied by a revised schedule for performance of the Work, showing both the original schedule and revisions, as well as the effect of the requested extension. Contractor shall not be entitled to compensation for additional work performed prior to receipt of a fully executed revised Purchase Order, which shall be at the District's sole discretion.

#### **Article 8 INSURANCE AND BONDS**

The Contractor shall purchase and maintain, at its expense, a policy covering the Work to be performed hereunder for the Contractor's negligent acts, errors and omissions in the amounts set forth on Exhibit A attached hereto. Contractor shall keep this policy in force for not less than three (3) years after the completion of the Work under the Contract.

The Contractor shall also procure and maintain during the life of the Contract the following types of insurance: (i) Workers' Compensation Insurance; (ii) Employer's Liability Insurance; (iii) Commercial General Liability Insurance; and (iv) Commercial Automobile Liability Insurance, all in accordance with the amounts and other requirements set forth in Exhibit A attached hereto and incorporated herein.

Prior to the Commencement Date of the Work, Contractor shall provide to the District certificates of insurance evidencing the foregoing coverages. Each policy maintained by the Contractor pursuant to this Article 8 shall comply with the requirements in Exhibit A and provide that it will not be canceled or materially altered without thirty (30) days advance written notice by mail to the District mailed to the address indicated herein, and the policies or certificates of insurance shall so state.

#### **Article 9 TERMINATION**

#### 9.1 Termination By Contractor

Contractor may terminate the Contract upon occurrence of any of the following:

- 1. issuance of a court or other public authority order stopping all Work;
- 2. an act of government declaring all Work is to stop; or
- 3. failure of the District to make payment upon an invoice validly approved by the Project Administrator within thirty (30) days of approval, which failure continues for a period of seven (7) days after written notice from Contractor to the District.

Upon such termination, the Contractor shall be compensated for all Work completed to the date of termination. Contractor shall not be entitled to any anticipated profits, consequential damages, or mobilization expenses.

#### 9.2 Termination By the District For Cause

The District may terminate the Contract if the Contractor:

- 1. repeatedly (more than 1 time) refuses or fails to adequately supply properly skilled labor or materials:
- 2. fails to make payments to subcontractors for materials or labor in accordance with the respective subcontract agreements;
- 3. disregards laws, ordinances, rules regulations or orders of any public authority having jurisdiction over the Project;
- 4. breaches any provision of the Contract Documents;
- 5. becomes insolvent; or

6. becomes the subject of a bankruptcy filing, a receivership, voluntary or involuntary, a composition or any other proceeding designed for the benefit of creditors generally or specifically that is not dismissed within 60 days of filing.

Without regard to the remedies at law or as stated herein, after a seven (7) day notice to Contractor of any cause set forth above, the District may terminate the Contract and exercise its rights as set forth within Article 2 herein. The District may termiate the Contract immediately in the event subpart 5 or 6 above becomes applicable.

#### 9.3 Termination By The District For Convenience

Notwithstanding any other provision to the contrary in the Contract Documents, the District may terminate the services of the Contractor and the Work by giving Contractor seven (7) days prior written notice. In such event, the Contractor shall be entitled to payment for all Work completed, but for no other compensation or damages.

Upon expiration or termination of the Contract for any reason or no reason, Contractor shall: (i) deliver to the District all documents, work product, and other materials, whether or not complete, prepared by or on behalf of Contractor in the course of performing the Work; (ii) return to the District all District-owned property, equipment, or other materials in its possession or control; (iii) remove any Contractor-owned property, equipment, or materials located at the District's locations; and (iv) provide reasonable cooperation and assistance to the District upon the District's written request in transitioning the Work to an alternate service provider.

#### 9.4 Suspension By The District

The District may order the Contractor to suspend, delay or interrupt the Work for a period of time as the District may direct. In such event, the Contract Sum and Contract Time shall be adjusted if necessary pursuant to the provision of Article 7 herein.

#### 9.5 No Suspension by Contractor

Under no circumstances shall the Contractor suspend the Work without the prior, written consent of the District, which may be withheld in the District's sole discretion.

#### **Article 10 MISCELLANEOUS PROVISIONS**

- 10.1 Applicable Law. The Contract is entered into and shall be interpreted in accordance with the laws of the State of Wisconsin, without regard for conflict of laws principles.
- 10.2 Any legal suit, action, or proceeding arising out of or related to the Contract or the Services provided hereunder shall be instituted exclusively in the federal courts of the United States or the courts of Wisconsin, in each case located in the City of Milwaukee and County of Milwaukee, and each party irrevocably submits to the exclusive jurisdiction of such courts in any such suit, action, or proceeding. The parties hereby waive any claims or defenses that venue in such jurisdiction is inappropriate, inconvenient or wrongful. EACH PARTY IRREVOCABLY AND UNCONDITIONALLY WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LEGAL ACTION ARISING OUT OF OR RELTATING TO THE CONTRACT OR THE TRANSACTIONS CONTEMPLATED HEREBY.

- 10.3 If any term or provision of the Contract is invalid, illegal, or unenforceable, such invalidity, illegality, or unenforceability shall not affect any other term or provision of the Contract or invalidate or render unenforceable such term or provision. Upon such determination that any term or other provision is invalid, illegal, or unenforceable, the parties hereto shall negotiate in good faith to modify the Contract so as to effect the original intent of the parties as closely as possible in a mutually acceptable manner in order that the transactions contemplated hereby be consummated as originally contemplated to the greatest extent possible.
- No waiver by any party of any of the provisions hereof shall be effective unless explicitly set forth in writing and signed by the party so waiving. Except as otherwise set forth in the Contract, no failure to exercise, or delay in exercising, any rights, remedy, power, or privilege arising from the Contract shall operate or be construed as a waiver thereof; nor shall any single or partial exercise of any right, remedy, power, or privilege hereunder preclude any other or further exercise thereof or the exercise of any other right, remedy, power, or privilege.
- 10.5 Except as set forth herein, this Agreement shall be binding upon all successors and heirs of the respective parties. The foregoing notwithstanding, other than the right to subcontract the Work, the Contractor may not assign the Contract Documents to any third party without the prior written consent of the District, which the District may withhold in its absolute discretion.

#### 10.6 Remedies

In addition to all rights and remedies available under law, the District may set off any and all damages for which Contractor is liable under the Contract Documents. The prevailing party in any dispute between the District and Contractor shall be awarded its costs and expenses, including reasonable attorney's fees.

#### 10.7 Notice

All notices, requests, consents, claims, demands, waivers, and other communications hereunder shall be in writing and shall be deemed to have been given (a) when delivered by hand (with written confirmation of receipt); (b) when received by the addressee if sent by a nationally recognized overnight courier (receipt requested); or (c) on the third day after the date mailed, by certified or registered mail, return receipt requested, postage prepaid or when actually received. Such communications must be sent to the respective parties at the last known registered address of such party (or at such other address for a party as shall be specified in a notice given in accordance with this Section 10.7).

- 10.8 The Contract may be signed in two or more counterparts. When at least one such counterpart has been signed by each party, the Contract shall be deemed to have been fully executed and each counterpart shall be deemed to be an original and all counterparts taken together shall be one and the same Contract. The Contract may be signed by e-mailed or other electronic signatures (e.g., DocuSign) and e-mail or such other electronic signatures hereon shall be deemed originals for all purposes.
- 10.9 Each party signing the Contract, including these Terms and Conditions, represents and warrants: (i) they have read and understand the Contract; (ii) it has the full right, power, and authority to enter into the Contract, to grant the rights and licenses granted hereunder and to perform its obligations hereunder, and (iii) when executed and delivered by such party, the Contract will constitute the legal, valid, and binding obligation of such party, enforceable against such party in accordance with its terms.

- 10.10 Each party shall, upon the reasonable request of the other party, execute such documents and perform such acts as may be necessary to give full effect to the terms the Contract.
- 10.11 The parties are independent contractors, and nothing contained in the Contract shall be construed as creating any agency, partnership, joint venture or other form of joint enterprise, employment, or fiduciary relationship between them. Neither party shall be authorized to contract for or bind the other party in any manner whatsoever.

#### **Article 11 DISPUTE RESOLUTION**

Should a dispute arise between the District and Contractor during the performance of Work or thereafter, the parties shall make a good faith attempt to resolve the dispute amongst themselves within ten (10) days of notice of dispute having been given. Notwithstanding the existence of a dispute between the parties, Contractor shall be obligated to prosecute the Work in a good and workmanlike manner and in accordance with the Contract Documents as long as the District continues to make payment of undisputed amounts. Contractor and its subcontractors shall have no right to suspend the performance of Work hereunder, or to cause the Work to be delayed because of the existence of a dispute.

The exclusive forum for the resolution of any and all disputes arising under this Contract or in any way relating to the Work shall be litigation in Milwaukee County Circuit Court, State of Wisconsin. The parties hereby waive any claims or defenses that venue in such court is inappropriate, inconvenient or wrongful.

#### **Article 12 DEFINITIONS**

#### 12.1 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations.

#### 12.2 The Project

The "Project" is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner or by separate contractors.

#### **EXHIBIT A**

A. Commercial General Liability – Occurrence Basis (including equipment overload):

|   | Limits      |
|---|-------------|
| General Aggregate (per project)           | \$2,000,000 |
| Products – Completed Operations Aggregate | \$2,000,000 |
| Personal & Advertising Injury             | \$1,000,000 |
| Each Occurrence                           | \$1,000,000 |

The policy shall not contain exclusions relating to: contractual liability, independent contractors, or explosion, collapse or underground exclusions.

**B. Business Auto Liability** – All Autos including Hired, leased, and Non-Owned Autos:

Bodily Injury & Property Damage-Combined Single Limit

\$1,000,000

C. Worker's Compensation and Employers Liability:

| Workers Compensation                      | Statutory   |
|---|-------------|
| Employers Liability                       |             |
| Bodily Injury by Accident (each accident) | \$1,000,000 |
| Bodily Injury by Disease (policy limit)   | \$1,000,000 |
| Bodily Injury by Disease (each employee)  | \$1,000,000 |

D. Excess or Umbrella Liability:

| Each Occurrence | \$10,000,000 |
|-----------------|--------------|
| Aggregate       | \$10,000,000 |

**E. Professional Liability Limits:** This requirement applies if the Contract involves professional design services or your Work has an element of design services.

| Each Claim | \$5,000,000 |
|------------|-------------|
| Aggregate  | \$5,000,000 |

**F. Pollution Liability** – Applicable if your work involves the use, disposal or transportation of pollutants or other hazardous materials:

| Each Occurrence | \$2,000,000 |
|-----------------|-------------|
| Aggregate       | \$2,000,000 |

- G. Contractor's Equipment All Contractors will be responsible for insuring their own equipment. The District will bear no responsibility for equipment used, rented or leased by contractors on or off-site. If cranes are used, Contractors should be certain to obtain special endorsements for loss by exceeding lifting capacity (i.e., overload). Contractors shall procure All Risk Property Insurance upon all equipment, material, inventory and business personal property owned, borrowed or leased by Contractor for the full replacement cost value thereof. Such policy shall include a waiver of subrogation provision and Contractor agrees to waive its carrier's right of subrogation against the Additional Insureds.
- **H. Rigger's & Erector's Liability** If your work involves rigging or erecting, special liability limits are required:

| Each Occurrence | \$20,000,000 |
|-----------------|--------------|
| Aggregate       | \$20,000,000 |

- I. Additional Insured: The Wisconsin Professional Baseball Park District (and its officers and directors) and the Milwaukee Brewers Baseball Club, L.P. shall be named as an Additional Insured on Commercial General Liability, Business Auto Liability, and Excess or Umbrella Liability Insurance policies. Contractors shall also require that each of its subcontractors name the Additional Insureds as additional insureds on the subcontractors' Commercial General Liability, Commercial Automobile and Umbrella Liability policies. Additional insured coverage shall be extended to include products-completed operations coverage. All liability insurance policies must provide Cross Liability coverage (separation of insureds or severability of interest provisions). The Commercial General Liability policy shall include no third-party-over action exclusions or similar endorsements or limitations.
- J. Certificate of Insurance: The District shall receive a Certificate of Insurance evidencing compliance with these insurance requirements prior to commencing any work, and a renewal Certificate of Insurance prior to the expiration or cancellation of any policy. However, the District permitting Contractor to commence Work prior to District's receipt of the required certificate of insurance shall not be a waiver of the Contractor's obligation to provide all of the above insurance. Acceptance by the District of insurance submitted by the Contractor shall not relieve or decrease in any manner the liability of the Contractor under this Contract.
- **K. Coverage Term**: All insurance must remain in force for the duration of the project and three years following project completion.
- L. A.M. Best Rating: All insurers must be rated A- or better by A.M. Best & Company.



#### WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT



#### **APPENDIX C**

Current 2025 Milwaukee Brewers Baseball Schedule



# 2025 SCHEDULE NOME AWAY All times CT. Game dates and times subject to change.

## MARCH / APRIL

| SUN             | MON             | TUE             | WED              | тни             | FRI               | SAT              |
|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|------------------|
|                 |                 |                 |                  | 27              | 28                | 29               |
|                 |                 |                 |                  | <b>NYY</b> 2:05 |                   | <b>NYY</b> 12:05 |
| 30              | 31              | 1               | 2                | 3               | 4                 | 5                |
| NYY<br>TBD      | <b>KC</b> 1:10  | <b>KC</b> 6:40  | <b>KC</b> 12:10  | <b>CIN</b> 6:40 | <b>CIN</b> 7:10   | <b>CIN</b> 6:10  |
| 6               | 7               | 8               | 9                | 10              | 11                | 12               |
| <b>CIN</b> 1:10 |                 | <b>COL</b> 7:40 | <b>COL</b> 7:40  | <b>COL</b> 2:10 | <b>AZ</b><br>8:40 | <b>AZ</b> 7:10   |
| 13              | 14              | 15              | 16               | 17              | 18                | 19               |
| <b>AZ</b> 3:10  | <b>DET</b> 6:40 | <b>DET</b> 6:40 | <b>DET</b> 12:10 |                 | <b>ATH</b> 7:10   | <b>ATH</b> 6:10  |
| 20              | 21              | 22              | 23               | 24              | 25                | 26               |
| <b>ATH</b> 1:10 | <b>SF</b> 8:45  | <b>SF</b> 8:45  | <b>SF</b> 8:45   | <b>SF</b> 2:45  | <b>STL</b> 7:15   | <b>STL</b> 1:15  |
| 27              | 28              | 29              | 30               |                 |                   |                  |
| <b>STL</b> 1:15 |                 | TBD             | CWS<br>TBD       |                 |                   |                  |

## MAY

|  | SUN               | MON                      | TUE                     | WED                      | THU             | FRI                      | SAT                     |
|--|-------------------|--------------------------|-------------------------|--------------------------|-----------------|--------------------------|-------------------------|
|  |                   |                          |                         |                          | cws<br>TBD      | 2<br>CHC<br>7:10         | 3<br><b>CHC</b><br>6:10 |
|  | CHC<br>1:10       | 5<br><b>HOU</b><br>6:40  | 6<br><b>HOU</b><br>6:40 | 7<br><b>HOU</b><br>12:10 | 8               | 9<br><b>TB</b><br>TBD    | TB<br>TBD               |
|  | TB<br>TBD         | CLE<br>TBD               | CLE<br>TBD              | CLE<br>TBD               | 15              | 16<br><b>MIN</b><br>7:10 | <b>MIN</b> 6:15         |
| Na N | 18<br>MIN<br>1:10 | 19<br><b>BAL</b><br>6:40 | BAL<br>6:40             | BAL<br>12:10             | <b>PIT</b> 5:40 | <b>PIT</b> 5:40          | PIT 3:05                |
|  | <b>PIT</b> 12:35  | <b>BOS</b> 1:10          | BOS<br>6:40             | BOS<br>12:10             | 29              | <b>PHI</b> 5:45          | <b>PHI</b> 3:05         |

## JUNE

| SUN                      | MON                      | TUE                      | WED                      | тни             | FRI                      | SAT                      |
|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|--------------------------|--------------------------|
| 1<br>PHI                 | 2<br>CIN                 | 3<br>CIN                 | 4<br>CIN                 | 5               | 6<br>SD                  | 7<br>SD                  |
| 12:35                    | 6:10                     | 6:10                     | 11:40a                   |                 | 7:10                     | 6:35                     |
| 8                        | 9                        | 10                       | 11                       | 12              | 13                       | 14                       |
| <b>SD</b> 1:10           | <b>ATL</b> 6:40          | <b>ATL</b> 6:40          | <b>ATL</b> 1:10          | <b>STL</b> 6:40 | <b>STL</b> 7:10          | <b>STL</b> 3:10          |
| 15                       | 16                       | 17                       | 18                       | 19              | 20                       | 21                       |
|                          |                          |                          |                          |                 |                          |                          |
| <b>STL</b> 1:10          |                          | <b>CHC</b> 7:05          | <b>CHC</b> 7:05          | <b>CHC</b> 1:20 | <b>MIN</b> 7:10          | <b>MIN</b> 1:10          |
| 1:10                     | 23                       | 7:05<br>24               | 7:05<br>25               |                 | 7:10<br><b>27</b>        | 1:10                     |
| 1:10                     | 23<br><b>PIT</b><br>6:40 | 7:05                     | 7:05                     | 1:20            | 7:10                     | 1:10                     |
| 1:10<br>22<br><b>MIN</b> | PIT                      | 7:05<br>24<br><b>PIT</b> | 7:05<br>25<br><b>PIT</b> | 1:20            | 7:10<br>27<br><b>COL</b> | 1:10<br>28<br><b>COL</b> |

## JULY

| SUN              | MON             | TUE             | WED             | THU             | FRI             | SAT             |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                  |                 | 1               | 2               | 3               | 4               | 5               |
|                  |                 | <b>NYM</b> 6:10 | <b>NYM</b> 6:10 | <b>NYM</b> 6:10 | <b>MIA</b> 6:10 | <b>MIA</b> 3:10 |
| 6                | 7               | 8               | 9               | 10              | 11              | 12              |
| <b>MIA</b> 12:40 | <b>LAD</b> 6:40 | <b>LAD</b> 6:40 | <b>LAD</b> 1:10 |                 | <b>WSH</b> 7:10 | <b>WSH</b> 3:10 |
| 13               | 14              | 15              | 16              | 17              | 18              | 19              |
| <b>WSH</b> 1:10  |                 |                 |                 |                 | 9:10            | <b>LAD</b> 8:10 |
| 20               | 21              | 22              | 23              | 24              | 25              | 26              |
| 3:10             | <b>SEA</b> 8:40 | <b>SEA</b> 8:40 | <b>SEA</b> 2:40 |                 | <b>MIA</b> 3:10 | <b>MIA</b> 6:10 |
| 27               | 28              | 29              | 30              | 31              |                 |                 |
| <b>MIA</b> 1:10  | <b>CHC</b> 6:40 | <b>CHC</b> 6:40 | <b>CHC</b> 1:10 |                 |                 |                 |

## **AUGUST**

| SUN                                    | MON                              | TUE                                    | WED                                    | THU              | FRI                             | SAT                             |
|--|----------------------------------|--|--|------------------|---------------------------------|---------------------------------|
|  |                                  |  |  |                  | 1                               | 2                               |
|  |                                  |  |  |                  | <b>WSH</b>                      | <b>WSH</b>                      |
|  |                                  |  |  |                  | 5:45                            | 3:05                            |
| 3                                      | 4                                | 5                                      | 6                                      | 7                | 8                               | 9                               |
| WSH                                    | ATL                              | ATL                                    | ATL                                    |                  | NYM                             | NYM                             |
| 12:35                                  | 6:15                             | 6:15                                   | 6:15                                   |                  | 7:10                            | 6:10                            |
| 10                                     | 11                               | 12                                     | 13                                     | 14               | 15                              | 16                              |
|  |                                  |  |  |                  |                                 |                                 |
| NYM                                    | PIT                              | PIT                                    | PIT                                    |                  | CIN                             | CIN                             |
| <b>NYM</b> 1:10                        | <b>PIT</b> 6:40                  | <b>PIT</b> 6:40                        | <b>PIT</b> 1:10                        |                  | <b>CIN</b> 5:40                 | <b>CIN</b> 5:40                 |
|  |                                  |  |  | 21               |                                 |                                 |
| 1:10                                   | 6:40                             | 6:40                                   | 1:10                                   | 21<br><b>CHC</b> | 5:40                            | 5:40                            |
| 1:10                                   | 6:40                             | 6:40                                   | 1:10                                   |                  | 5:40<br>22                      | 5:40<br>23                      |
| 1:10<br>17<br>CIN                      | 6:40<br>18<br><b>CHC</b>         | 6:40<br>19<br>CHC                      | 1:10<br>20<br>CHC                      | CHC              | 5:40<br>22<br><b>SF</b>         | 5:40<br>23<br><b>SF</b>         |
| 1:10<br>17<br>CIN<br>12:40<br>24<br>SF | 6:40  18  CHC 7:05               | 6:40<br>19<br>CHC<br>7:05              | 1:10<br>20<br>CHC<br>7:05<br>27<br>AZ  | 28<br>AZ         | 5:40  22  SF 7:10  29  TOR      | 5:40<br>23<br><b>SF</b><br>6:10 |
| 1:10<br>17<br>CIN<br>12:40             | 6:40<br>18<br><b>CHC</b><br>7:05 | 6:40<br>19<br><b>CHC</b><br>7:05<br>26 | 1:10<br>20<br><b>CHC</b><br>7:05<br>27 | <b>CHC</b> 1:20  | 5:40<br>22<br><b>SF</b><br>7:10 | 5:40<br>23<br><b>SF</b><br>6:10 |

# **SEPTEMBER**

| SUN               | MON                     | TUE                      | WED                      | тни                      | FRI                      | SAT                     |
|-------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
|                   | 1<br><b>PHI</b><br>3:10 | 2                        | э<br><b>РНІ</b><br>6:40  | <b>PHI</b> 3:10          | <b>PIT</b> 5:40          | 6<br><b>PIT</b><br>5:40 |
| <b>PIT</b> 12:35  | <b>TEX</b> 7:05         | 9<br><b>TEX</b><br>7:05  | <b>TEX</b> 1:35          | 11                       | 12<br>STL<br>7:10        | <b>STL</b> 6:10         |
| STL<br>1:10       | 15                      | 16<br><b>LAA</b><br>6:40 | 17<br><b>LAA</b><br>6:40 | 18<br><b>LAA</b><br>6:40 | <b>STL</b> 7:15          | <b>STL</b> 6:15         |
| <b>STL</b> 1:15   | <b>SD</b> 8:40          | <b>SD</b> 8:40           | <b>SD</b> 3:10           | 25                       | 26<br><b>CIN</b><br>7:10 | <b>CIN</b> 6:10         |
| 28<br>CIN<br>2:10 | 29                      | 30                       |                          |                          |                          |                         |

**TOR** 12:37



#### WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT



#### APPENDIX D

Wisconsin Professional Baseball Park District Diversity Contracting Program



ADDRESS: 1 BREWERS WAY, MILWAUKEE WI 53214

E-MAIL: CONTACT@WIBASEBALLDISTRICT.COM

PHONE:(414)902-4040

#### DIVERSITY CONTRACTING PROGRAM FORM INSTRUCTIONS

## Is your firm a Diverse Firm?

Does your firm maintain one of the socio-economic status certifications listed at the top of the page 2 in the District's Diverse Contracting Program? Please note, registration based solely on NAICS code and number of employees with the U.S. Small Business Administration does not qualify your firm as a Diverse Firm under the District's program.

Does your firm's address (location bidding the work) fall within an "at risk" or "distressed" community in the Distressed Communities Index? To check if your firm is located in an Economically Distressed Community, please search by zip code at this link https://eig.org/dci/interactive-map.

#### YES!

You are done! Please submit proof of Diverse Firm qualification with your bid/ proposal.

#### NO

The District maintains a Diverse Firm participation goal of 10 % for professional services and 15 % for improvement projects. Please review Diverse Firm contracting options and continue below.

## Will your firm be utilizing a Diverse Firm subcontractor for this project?

We will be utilizing a Diverse Firm subcontractor. Continue to the "Using a Diverse Firm" section below.

We were unable to secure a Diverse Firm subcontractor. Continue to the "Not Using a Diverse Firm" section below.

## **Using a Diverse Firm**

#### OR

## Not Using a Diverse Firm

#### **Utilization Plan**

If your firm will be utilizing a Diverse Firm subcontractor, please complete this Utilization Plan. Submit this form with your bid/ proposal. To access this form, please use the following link.



# **Exemption Certification**

If the project was unable to include Diverse Firm participation, please review the Exemption Certification. Determine if your project qualifies for an exemption. If your project or a portion of your project qualifies for an exemption, please indicate this on the form. Submit this form with your bid/proposal. To access this form, please use the following link.

https://wibaseballdistrict.com/wp-content/uploads/2024/06/Diversity-Firm-Exemption-Certification-2024-06.pdf

If your project does not qualify for an exemption or you selected exemption category 3 or 4, please complete Certification of Good Faith Effort.

After your firm is awarded a bid or contract

 $\underline{https://wibaseball district.com/wp-content/uploads/2024/06/Diversity-Firm-Utilization-Plan-2024-06.pdf}$ 

#### **Utilization Form**



Complete the Utilization Form and submit it with each invoice that includes payments to the Diverse Firm subcontractor. To access this form, please use the following link.

Certification of Good Faith Effort



Review the checklist and initial and date each item your firm performed to obtain Diverse Firm participation. Be sure to sign and date the form. Return this form with your bid/proposal. To access this form, please use the following link.

 $\underline{https://wibaseball district.com/wp-content/uploads/2024/06/Diverse-Firm-Certification-of-Good-Faith-Effort-2024-06.pdf}$ 

https://wibaseballdistrict.com/wp-content/uploads/2024/06/Diverse-Firm-Utilization-Form-2024-06.pdf

#### Wisconsin Professional Baseball Park District Diversity Contracting Program

Adopted: June 9, 2020

#### **Program Overview**

The Wisconsin Professional Baseball Park District (the "District") is a special district that is a body corporate and politic, and a local governmental unit, separate and independent of the State of Wisconsin. Under Sec. 229.67, Wis. Stats., the jurisdiction of the District includes Milwaukee, Racine, Waukesha, Washington, and Ozaukee Counties (collectively, the "Jurisdiction"). The following policies and procedures (the "Program") will be utilized for the inclusion of Diverse Firms in ongoing completion of improvements to the District's baseball park facilities ("Improvement Projects"), as well as in its needs for professional, administrative and operations services ("Service Projects") for the District (collectively, the "Operations").

It is the District's intent to utilize Contractors reflective of the diversity of its entire Jurisdiction. The District, therefore, notifies all Contractors that no one will be discriminated against in the awarding of any Operations contract on the grounds of sex, race, color, national origin, sexual orientation, religious belief, age, veteran status, marital status, economic status, creed, ethnic identity, gender identity or expression or disability or legally protected status.

While the District has no statutory obligation mandating participation in its Operations contracting, the District's policy will be to enforce full, good faith compliance with this Program by all Contractors, and to provide Diverse Firms a meaningful opportunity for substantive participation in ongoing District Operations. This Program has been designed to promote and encourage open competition and participation in Operations activities and to enhance opportunities for Diverse Firms to successfully compete in Operations contracting.

It is the intent of this policy to widen opportunities for participation, increase competition, and establish procedures designed to assure Diverse Firms access to information and opportunities available to all Vendors. It is not the policy of the Wisconsin Professional Baseball Park District or its Board of Directors to provide information or other opportunities to Diverse Firms that will not be available to all other business enterprises.

#### **Vendor commitments to District**

Vendors shall take all reasonable steps necessary to ensure that Diverse Firms have a full and fair opportunity to compete for the performance of contracts. As a condition of submitting a bid or proposal, each Vendor hereby agrees to:

- 1. not discriminate against any person or business on the basis of sex, race, color, national origin, sexual orientation, religious belief, age, veteran status, marital status, economic status, creed, ethnic identity, gender identity or expression or disability or legally protected status;
- 2. ensure that Diverse Firms have fair opportunity to compete for and substantively perform with them in completing contracts;
- 3. commit best efforts to meet Diverse Firm procurement and contracting goals (inclusive of all accepted alternates, actual allowance values, change orders, modifications and amendments) through Diverse Firms' participation; and
- 4. acknowledge that they have not required Diverse Firms to engage in exclusive relationships with them as a condition to their participation in the bid or proposal.

The District places all Vendors on notice that the District will not hire those that engage in restraint of trade or attempts to monopolize utilization of Diverse Firms.

#### **Diverse Firm Participation Level Goal**

It is the goal of the District to provide an equal opportunity for Diverse Firms to participate in the performance of contracts. For qualifying Operations, the District will maintain goals that:

- 10% of the aggregated dollar value of Service Projects, and
- 15% of the aggregated dollar value of Improvement Projects contracts awarded on District Operations shall be made to Diverse Firms (collectively, the "Participation Level").

#### A Diverse Firm is a firm fulfilling at least one of the following:

- Maintains one or more of the socio-economic status certifications from a federal, state or local government agency or by a third-party certifier (Minority Supplier Diversity Council, National Women Business Owners Corporation, Disability: IN, National LGBT Chamber of Commerce, etc.) including, but not limited to the following:
  - o Disabled-Owned Business Enterprise (DOBE)
  - o Disadvantaged Business Enterprise (DBE)
  - o Lesbian, Gay, Bisexual, Transgender Business Enterprise (LGBTBE)
  - Minority-Owned Business Enterprise (MBE)
  - o Service -Disabled Veteran-Owned Small Business (SDVOSB)
  - o Small Business Enterprise (SBE)
  - Women-Owned Business Enterprise (WBE)
  - Veteran-Owned Small Business Enterprise (VOSB)
  - o Historically Underutilized Business Zone (HUBZone)
  - o 8(a) Business Development Program (8(a))
- Maintains a physical business location in an Economically Distressed Community.
- Can produce other documentation verifying it qualifies as a Diverse Firm. This is designed to cover sole proprietorships, small partnerships, closely held corporations and companies that do not have the resources to seek a governmental or third-party certification.

The District and Contractors will use best efforts to utilize Diverse Firms that have provided written evidence confirming their status as a Diverse Firm for their performance of Operations contracts consistent with the District's Participation Level goals. No credit will be given for the dollar value of materials, equipment, supplies and/or services provided by a Diverse Firm that operates as a pass-through broker. The District reserves the right to set specific Diverse Firm percentage goals for each Operations project bid package, based on availability of Diverse Firms to perform the work necessary for the project.

#### **Process**

Reasonable efforts will be made by the District and Vendors to seek out Diverse Firms for the procurement of goods or services and, in particular, Diverse Firms from the Jurisdiction.

#### **Bidding process**

In submitting a bid/proposal, Vendors shall comply with the following submittal requirements. Failure to submit complete information and/or provide documents in accordance with this section shall entitle the District to reject the Vendor's bid/proposal as non-conforming.

Vendors that are Diverse Firms must submit written evidence confirming their status as a Diverse Firm.

Vendors that are not themselves a Diverse Firm must submit with their bid/proposal to the District a sworn statement committing them to use specific, listed Diverse Firms if their bid is accepted (a "Utilization Plan"). Except in cases where the bidder/proposer has submitted an Exemption Certification in accordance with this Program, the Diverse Firm Utilization Plan must commit to the expenditure of a specific dollar amount or percentage of final contract amount of participation by each such Diverse Firm included in the Utilization Plan.

The Utilization Plan may include a reduction or exemption request, supplying information as required in this Policy.

#### Process after the contract is awarded

Upon approval and award of a contract, the Contractor will maintain the Participation Level approved in its contract, as may be amended from time to time in writing by the District, during Contractor's performance of the Operations work or services.

If the contract includes a Utilization Plan, the Contractor shall prepare and submit to the District a Diverse Firm Utilization Form with each invoice or pay application that includes payment to a Diverse Firm during that billing cycle. Failure to submit the required form to the District may result in delay of payments.

Any changes in the qualifying status of the Diverse Firm under this program shall be reported to the District immediately.

The District shall be entitled to request, and the Contractor will submit to the District, a copy of its executed Diverse Firm subcontract within fifteen (15) days after the District makes a written request.

If, during the performance of an Operations contract, the Contractor is not in compliance with the Participation Level approved in its contract, fails to provide adequate documentation of compliance, or submits any documentation regarding a Diverse Firm that contains false, misleading or fraudulent information, the District may take one or more of the following actions:

- 1. Withhold payments on the contract and/or pay Contractor's subcontractors directly while withholding overhead and profit of the Contractor.
- 2. Terminate the Contractor's contract, in whole or in part, for cause.
- 3. Deny participation on other portions of the Operations and/or in any future contracts awarded by the District
- 4. Any other remedy available to the District at law or in equity.

If any document or statement submitted to the District or Contractor by a Diverse Firm contains false, misleading or fraudulent information, the District will require the Contractor to terminate the Diverse Firm and make reasonable efforts to identify and engage a qualified Diverse Firm as its replacement.

#### **Exemption Certification**

The District and Vendors will make every effort to include as much Diverse Firm participation as possible. However, if any of the following criteria identified below are met, the project/contract dollars or portion of a project/contract dollars will be exempt from Participation Level goals.

- 1. The procurement of insurance and office necessities, including, but not limited to, software, hardware, and technology, or other services and the payment of government-imposed fees, taxes, and permitting.
- 2. The procurement of materials, labor, equipment or goods uniquely designed for the needs of the baseball park facility.
- 3. The cost to utilize a Diverse Firm would be unreasonably higher and financially burdensome.
- 4. Despite efforts to solicit participation, there was no response from a Diverse Firm capable of supplying the required goods, materials or performing the type of work requested.

If any of the criteria in categories 2 – 4 above are met, the Vendor is responsible for submitting the Exemption Certification form, a Certification of Good Faith Effort and, if requested by the District, supporting documentation which demonstrated the identified Good Faith Efforts attempted. The supporting documentation may include e-mail correspondence, physical correspondence, pre-proposal notices, newspaper advertisements, etc.

demonstrating the lack of response, or detail justifying why the Diverse Firm respondents were not capable of performing the work or that the costs were excessive.

#### **Definitions**

In addition to those definitions set forth elsewhere in this document, when used in this Program, the following terms (whether used in singular or plural tense) shall have the meanings identified below:

Bid / Proposal: Offer to provide goods and/or services for a specified price.

<u>Contractor</u>: All construction contractors and Service Providers hired directly by the District for any Improvement Projects and/or any Service Projects related to the Operations.

<u>Economically Distressed Community:</u> A geographic area within an "At Risk" or "Distressed" zip code as identified by the Distressed Communities Index (DCI) or an equivalent database.

<u>Participation Levels</u>: The percentage level goals for aggregate participation of Diverse Firms established within this Program.

<u>Reasonable efforts/ good faith efforts:</u> All commercially reasonable efforts necessary and practicable to increase the opportunities available in order to meet the applicable Diverse Firm Participation Levels.

<u>Service Provider</u>: Any architect, engineer, surveyor, environmental analyst, developer, legal, accounting and audit, marketing/public communications or other professional service consultant, including District management and administrative staff, retained to perform services related to the Operations.

<u>Vendor</u>: A person or company offering the District a good and/or service for sale.

#### **Forms**

- Diverse Firm Utilization Plan (submitted with Vendor Bid/Proposal)
- Diverse Firm Utilization Form (submitted with Contractor invoices or pay applications)
- Exemption Certification (submitted with Vendor Bid/Proposal, if necessary)
- Certification of Good Faith Effort (submitted with Vendor Bid/Proposal, if necessary)

#### Wisconsin Professional Baseball Park District Diverse Firm Utilization Plan

<u>Purpose:</u> Please complete this form and return with your bid/proposal. Complete a section for each Diverse Firm anticipated to contribute to the project.

| Diverse Firm Name                      |                             |        | Contact Name             |   |
|--|-----------------------------|--------|--------------------------|---|
| Diverse Firm Address                   |                             |        | ·                        |   |
|  |                             |        |                          |   |
| Total Amount to be Paid                |                             | ΩD     | Percentage of dollars to |   |
| to Diverse Firm                        |                             | OR     | be Paid to Diverse Firm  |   |
| Brief description of work to           | be performed by the Divers  | e Firm | 1                        |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
| Disserse Eigen Neues                   |                             |        | Contact Name             |   |
| Diverse Firm Name Diverse Firm Address |                             |        | Contact Name             |   |
| Diverse Firm Address                   |                             |        |                          |   |
|  |                             | - 1    |                          | T |
| Total Amount to be Paid                |                             | OR     | Percentage of dollars to |   |
| to Diverse Firm                        | 1                           | - E:   | be Paid to Diverse Firm  |   |
| Brief description of work to           | be performed by the Diverse | e Firm | 1                        |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
| Diverse Firm Name                      |                             |        | Contact Name             |   |
| Diverse Firm Address                   |                             |        | <u>.</u>                 |   |
|  |                             |        |                          |   |
| Total Amount to be Paid                |                             |        | Percentage of dollars to |   |
| to Diverse Firm                        |                             | OR     | be Paid to Diverse Firm  |   |
|  | be performed by the Divers  | e Firm |                          |   |
| •                                      |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
|  |                             |        |                          |   |
| 23                                     |                             |        |                          |   |
| Signature                              |                             |        | Title                    |   |
|  |                             |        |                          |   |
| Typed or Printed Name                  |                             |        | Date                     |   |

### Wisconsin Professional Baseball Park District Diverse Firm Utilization Form

<u>Purpose:</u> When a contract includes a Diverse Firm Utilization Plan, the Contractor shall prepare and submit to the District a Diverse Firm Utilization Form with each invoice or pay application that includes payment to a Diverse Firm during that billing cycle. For questions, please contact Lisa Wozny at (414) 902-4043 or lwozny@wibaseballdistrict.com.

| Commony Name                      |       |
|-----------------------------------|-------|
| Company Name                      |       |
| P.O.#                             |       |
| 1                                 |       |
|                                   |       |
| Diverse Firm Name                 |       |
| Services provided by Diverse Firm |       |
|                                   |       |
| Amount Paid to Diverse Firm       |       |
| <u> </u>                          |       |
|                                   |       |
| Diverse Firm Name                 |       |
| Services provided by Diverse Firm |       |
|                                   |       |
| Amount Paid to Diverse Firm       |       |
|                                   |       |
|                                   |       |
| Signature                         | Title |
| -                                 |       |
| Typed or Printed Name             | Date  |

# Wisconsin Professional Baseball Park District Exemption Certification

To request an exemption, please initial and date the box to the left of the applicable category, identify the qualifying whole project or phase of project, and record the dollar amount associated with each applicable section.

Please submit a "Certification of Good Faith Effort" form, if the cost to utilize a Diverse Firm would be unreasonably higher, there were no Diverse Firms which responded, or there were Diverse Firms which responded but were not capable of performing the work requested.

|  | Cate   | gory 2   | Identify whole project or applicable portion of project. | Dollar Amount |  |
|--|--|--|--|---------------|--|
|  | Materials, labor, equipment or specialized goods unique for the needs of the baseball park facility. |  | Entire project.  |               |  |
|  |  |  | Portion(s) of project Description:                       |               |  |
|  |  |  | Portion(s) of project Description:                       |               |  |
|  |  | Portion(s) of project Description:   |  |               |  |
|  |  |  | Portion(s) of project Description:                       |               |  |
|  | FOR CATEGORIES 3   | - 4 PLEASE SUBMIT  | CERTIFICATION OF GOOD I                                  | FAITH EFFORT. |  |
|  | Category 3   | The cost to utilize a Diverse Firm would be unreasonably higher and financially burdensome.  |  |               |  |
|  | Category 4   | Despite efforts to solicit participation, there was no response from a Diverse Firm capable of supplying the required goods, materials or performing the type of work requested. |  |               |  |
|  |  |  |  |               |  |
|  | Signature  |  | Title  |               |  |
|  | Typed or Printed Name  |  | Date   |               |  |

#### Wisconsin Professional Baseball Park District Certification of Good Faith Effort

By submitting the signed, the Vendor certifies that the Vendor took the following steps to attempt to obtain sufficient Diverse Firm participation to achieve the Participation Level goals.

Upon request, the Vendor shall also submit documentation which demonstrates the identified Good Faith Efforts attempted. Documentation includes, but is not limited to, e-mail correspondence, physical correspondence, preproposal notices, newspaper advertisements, etc.

Initial and date the box to the right of each effort that was undertaken.

| Good Faith Eff  | orts                                 | Initial |  |  |
|---|--------------------------------------|---------|--|--|
| Delivered written notice of subcontracting opportunities on eligible contracts to the appropriate and industry-specific Diverse Firms.                                      |                                      |         |  |  |
| Utilized local or targeted newspapers, periodicals and diverse firm focused associations and  |                                      |         |  |  |
| websites for notice purposes regarding subcontracting opportunities.  |                                      |         |  |  |
| Responded to requests for information from Diverse Firms regarding the bid / proposal.  |                                      |         |  |  |
| Divided tasks within the eligible contract, in accordance with normal industry practice, into small, economically feasible segments that can be performed by Diverse Firms. |                                      |         |  |  |
| Developed internal management policies and procedures within the company that are designed to assist in achieving Diverse Firm participation on contracts.                  |                                      |         |  |  |
| Attempted to negotiate, in good faith, with a Diverse Firm to provide goods or services related to this contracting opportunity.  |                                      |         |  |  |
| Documented and maintained accurate and accessible reutilize Diverse Firms.  | ecords of such Good Faith Efforts to |         |  |  |
| Ensured that written notices contain the following:   |                                      |         |  |  |
| <ul> <li>adequate information about the plans, specifications the contract and about the work to be subcontract subcontractors and suppliers;</li> </ul>                    | · ·                                  |         |  |  |
| • a contact person with the proposer's office to answer questions;  |                                      |         |  |  |
| • information regarding the proposer's bonding and insurance requirements; and  |                                      |         |  |  |
| • the last date for receipt by the proposer of Diverse Firm price quotations.   |                                      |         |  |  |
| OTHER:  |                                      |         |  |  |
|   |                                      |         |  |  |
|   |                                      |         |  |  |
| Signature   | Title                                |         |  |  |
| Typed or Printed Name   | Date                                 |         |  |  |