A D D E N D U M N O. 3

Nathaniel Jones Early Learning Center Addition and Expansion

MSD of Pike Township
Indianapolis, Indiana

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Revised Drawing Sheets:
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Date: March 30, 2026

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS

Paul A. Miller, License No. AR10800161
Expiration Date: 12/31/2027

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 3 to Drawings and Project Manual, dated March 13, 2026, for MSD of Pike Township, 3950 W. 56th Street, Indianapolis, Indiana 46278; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana. This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, SECTION 27 41 16 INTEGRATED AV SYSTEMS

A. Replace this section in its entirety. The new revised section, dated 3/30/2026, is included with and hereby made a part of this Addendum.

ITEM NO. 2. REVISED DRAWING SHEETS

A. Drawing Sheets: The following sheets in the document set have been revised, dated 3/26/26, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

AF11C	M-601	E-601
AF601	M-602	E-602
MP11C	M-701	E-603
MP11D	M-702	E-604
MC11C	M-703	T-502
M-401	EL11C	T-503
M-402	EP11C	
M-502	EP11D	

END OF ADDENDUM

SECTION 27 41 16 - INTEGRATED A/V SYSTEMS
(MULTIPURPOSE ROOM AV SYSTEM)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

A. This section includes but is not limited to the minimum requirements for the installation, configuration and training of the audio-visual components in the Multipurpose Room (Cafeteria C101) as depicted on in the Drawings and required by these specifications. The Multipurpose Room A/V system shall be a turnkey system that is capable of being used independently in each divided room as well as combined as one room.

B. These Specifications, together with the Drawings accompanying them, are intended to depict the installation requirements necessary to support this Project. Contractor shall furnish materials shown and/or called for on the Drawings but not mentioned in the Specifications, or vice versa, that are necessary for the installation and support of communications cabling, whether specifically called for in both. In addition, Contractor shall provide incidental equipment and materials required for the completion of systems included in this contract whether specified or shown on the drawings.

C. All required back boxes and conduit to support the AV systems are provided and installed as indicated on the drawings. Contractor is required to provide, install, test, and configure all cabling, equipment, and AV systems as described within this specification and as shown on the Tech drawings.

D. This section includes minimum requirements for the following:

1. Multipurpose Room AV System Equipment, including but not limited to the following:
    a. Video matrix switching
    b. Distributed 70V audio system
    c. Wireless microphone system
    d. Digital signal processing with room combining logic
    e. Touchpanel control system
    f. Equipment rack, wiring, programming, testing, and commissioning

E. Related section includes the following:

1. Division 01 – General Requirements
2. Division 26 – Electrical
3. Division 27 – Communications Sections.
4. Division 28 – Electronic Safety and Security

1.3 QUALITY ASSURANCE

A. The following industry Standards are the basis for the audio-visual system described herein. The list is incorporated by this reference to them.

1. ANSI - American National Safety Institute
2. ASTM - American Society of Testing and Materials
3. EIA - Electronics Industries Association
4. FCC - Federal Communications Commission
5. NEMA - National Electrical Manufacturer’s Association

6. OSHA - Occupational Safety and Health Administration
7. NEC - National Electric Code.
8. NFPA - National Fire Protection Association.
9. IEEE - Institute of Electrical and Electronics Engineers.
10. ISO - International Standards Organization.
11. UL - Underwriters Laboratories
12. Davis and Davis, Sound System Engineering (2nd Edition), Howard W. Sams, 1987
13. Giddings, Audio System Design and Installation (ASDI), Howard W. Sams, 1990

B. All cable and equipment shall be installed in a neat and skillful manner. Equipment and materials shall be of the quality and manufacturer indicated. The equipment specified is based upon the acceptable manufacturers listed. Where "Or equal" is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.

C. Materials and work specified herein shall comply with the requirements of the local authority having jurisdiction.

D. Contractor should have the following qualifications:

1. Experienced in the installation of systems similar in complexity and scale to those included within the scope of work. If requested, the Contractor shall provide the names, locations, and points of contact for at least three installations of the type and complexity specified herein.
2. Within the last two (2) years, installed an audio-visual system with similar equipment and functionality.
3. Have at least one (1) person on staff with CTS-I certification.

1.4 SUBMITTALS

A. Provide update one line drawing/detail for each system for approval.

B. See front end submittals section for more information.

C. See Common Work Results for Communications section 270500 for more submittal requirements.

1.5 RECORD DRAWINGS / OPERATION AND MAINTENANCE MANUALS

A. Provide record drawings and operation and maintenance manuals, as described in Sections – "Operation and Maintenance of Communications Systems" and Common Work Results for Communications Systems".

1.6 DELIVERY, STORAGE, AND HANDLING

A. Equipment and components shall arrive onsite properly protected and undamaged with containers, packaging, and labels intact.

B. Store, handle and protect materials and equipment in accordance with Manufacturer's recommendations.

C. Store materials and equipment in dry, environmentally controlled space. Do not install equipment and materials until spaces are enclosed, watertight, and dry. Protect equipment from dust and other airborne materials.

D. Provide additional protection during handling as necessary to prevent breaking, scraping, marring, or otherwise damaging products or surrounding areas.

E. Protect all equipment and components that are to be installed within this project from theft, vandalism, and exposure to rain, freezing temperatures and direct sunlight.

F. Protect installed equipment and components from damage and prevent use by unauthorized persons.

1.7 WARRANTY

A. The integrated audio video system and equipment for classrooms shall carry a warranty as specified in Section – "Demonstration and Training of Communications Systems". The warranty shall include all labor and material to replace all components that fail and or do not comply with the performance specifications.

B. Contractor shall repair, adjust, and/or replace, whichever the Owner determines to be in its best interests, any defective equipment, materials, or workmanship, as well as such parts of the work damaged or destroyed by such defect, during the warranty period, at the Contractor's sole cost and expense. If parts or components need to be repaired, then a loaner will be supplied and installed until the part or component can be repaired and reinstalled.

C. Manufacturer certified technicians shall perform all service work.

D. At the end of the warranty period, the Contractor shall complete one (1) site visit to evaluate the status of the audio-visual systems. All equipment within this scope of work found to be defective shall be replaced at no cost to the Owner.

E. Guarantees of material, equipment, and workmanship running in favor of the Contractor shall be transferred and assigned to the Owner on completion of the work and acceptance of said work by the Owner.

PART 2 - PRODUCTS

2.1 VIDEO SYSTEM

A. Video Matrix Switcher
   1. Shall meet or exceed the following specifications:
      a. Support minimum 8 HDMI inputs
      b. Support minimum 6 HDMI outputs
      c. Support 4K resolution
      d. HDCP compliant
      e. Front panel lockout
      f. Ethernet control
   2. Provide HDMI extension via DTP over CAT6A where required
   3. Provide necessary adapters, scaling, and EDID management
   4. Basis of Design:
      a. Extron CrossPoint 86 4K
      b. Or Equal

B. Video Transmitter
   1. Provide an HDMI decorator-style wallplate twisted pair transmitter that shall support the distribution of video, audio, and control over a shielded CATx cable.
   2. Single-gang decorator-style wallplate transmitter for the transmission of HDMI, audio, and control
   3. Video input requirements
      a. Provide one (1) video input for digital video signals
      b. Supported HDMI specifications include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC pass-through
   4. Audio input requirements
      a. Support embedded digital audio on HDMI input

b. Provide a dedicated analog audio input connection

5. Control input requirements
   a. Provide communication connections for AV device control
   b. One bidirectional RS-232 pass-through
   c. One bidirectional IR pass-through
6. Interconnection requirements
   a. Support interconnection between transmitter and receiver or DTP®-enabled products
   b. One RJ-45 twisted pair connection
   c. Shall be configurable for sending digital video and embedded audio, plus bidirectional RS-232 and IR signals to an HDBaseT-enabled display
7. Transmission requirements
   a. Provide signal transmission distance capability of 230 feet (70 m) at 1920x1200, including 1080p @ 60 Hz and 2K using a shielded CATx cable
   b. Support signal transmission distance capability of 4K @ 30 Hz, UHD, and 2560x1600 up to 130 feet (40 m) using a shielded CATx cable
   c. Support video, audio, and control over a single shielded CATx cable
   d. Support embedded HD lossless audio formats
   e. Actively buffer DDC channels
8. Resolution requirements
   a. Support computer and video resolutions up to 4K, including 1080p/60 Deep Color
   b. Support RGB and YCbCr digital video formats
9. Audio requirements
   a. The unit shall accept additional analog stereo audio signals for simultaneous transmission with HDMI embedded audio
   b. The unit shall support multiple embedded audio formats
   c. The unit shall support embedded HD lossless audio formats
10. HDCP requirements
    a. The unit shall be HDCP 2.3 compliant with backward compatibility with earlier HDCP versions
11. Communication requirements
    a. The unit shall support bidirectional RS-232 communication pass-through up to 115200 baud
    b. The unit shall support bidirectional IR pass-through
    c. The unit shall support EDID and HDCP transmission
12. Power requirements
    a. The unit shall support remote power capability
    b. The unit shall support being locally powered
13. General Requirements
    a. The unit shall be compatible with CATx shielded twisted pair cable, and Extron XTP DTP 24 shielded twisted pair cable
    b. The unit shall support HDMI specifications including data rates up to 10.2 Gbps, Deep Color, 3D, HD lossless audio formats, and CEC pass-through
    c. The unit shall support being locally or remotely powered
    d. The unit shall support embedded HD lossless audio formats
    e. The unit shall support the use of HDMI to DVI-D cables or adapters for DVI-D
    f. The unit shall support installation into standard US one-gang electrical junction boxes
    g. Shall provide visual indication of signal presence and power
    h. Shall meet regulatory compliances
       - CE, c-UL, UL
       - CE, C-tick, FCC Class A, ICES, VCCI
    i. Shall provide at least 3 years parts and labor warranty
    j. Shall be compatible with other DTP-enabled products
14. Basis of Design - Extron DTP T HWP 4K 231 D or Equal

C. Video Receiver

1. Provide an HDMI twisted pair receiver that shall support the distribution of video, audio, and control over a shielded CATx cable.
    a. Rack-mountable receiver for HDMI, audio, and control
2. Video output requirements
    a. Provide one (1) video output for digital video signals
    b. Supported HDMI specifications include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC pass-through
3. Audio output requirements
    a. Support embedded digital audio on HDMI output
    b. Provide a dedicated analog audio output connection
    c. One (1) stereo analog audio
4. Control output requirements
    a. Provide communication connections for AV device control
    b. One bidirectional RS-232 pass-through
    c. One bidirectional IR pass-through
5. Interconnection requirements
    a. Support interconnection between receiver and transmitter or DTP®-enabled products
    b. One RJ-45 twisted pair connection
6. Transmission requirements
    a. Provide signal transmission distance capability of 230 feet (70 m) at 1920x1200, including 1080p @ 60 Hz and 2K using a shielded CATx cable
    b. Support signal transmission distance capability of 4K @ 30 Hz, UHD, and 2560x1600 up to 130 feet (40 m) using a shielded CATx cable
    c. Support video, audio, and control over a single shielded CATx cable
    d. Support embedded HD lossless audio formats
    e. Actively buffer DDC channels
7. Resolution requirements
    a. Support computer and video resolutions up to 4K, including 1080p/60 Deep Color
    b. Support RGB and YCbCr digital video formats
8. Audio requirements
    a. The unit shall support analog stereo audio pass-through signals
    b. The unit shall support multiple embedded audio formats
    c. The unit shall support embedded HD lossless audio formats
9. HDCP requirements
    a. The unit shall be HDCP 2.3 compliant with backward compatibility with earlier HDCP versions
10. Communication requirements
    a. The unit shall support bidirectional RS-232 communication pass-through up to 115200 baud
    b. The unit shall support bidirectional IR pass-through
    c. The unit shall support EDID and HDCP transmission
11. Power requirements
    a. The unit shall support remote power capability
    b. The unit shall support being locally powered
12. General requirements
    a. The unit shall be HDCP 2.3 compliant with backward compatibility with earlier HDCP versions
    b. The unit shall be compatible with CATx shielded twisted pair cable, and Extron XTP DTP 24 shielded twisted pair cable
    c. The unit shall support HDMI specifications including data rates up to 10.2 Gbps, Deep Color, 3D, HD lossless audio formats, and CEC pass-through
    d. The unit shall support being locally or remotely powered
    e. The unit shall support embedded HD lossless audio formats
    f. The unit shall support the use of HDMI to DVI-D cables or adapters for DVI-D
    g. The unit shall have a low profile enclosure and versatile mounting capability
    h. Shall provide visual indication for signal presence and power
    i. Shall meet regulatory compliances

CE, c-UL, UL
CE, C-tick, FCC Class A, ICES, VCCI

j. Shall provide at least 3 years parts and labor warranty
k. Shall be compatible with other DTP-enabled products

13. Basis of design - Extron DTP HDMI 4K 230 Rx or Equal

2.2 AUDIO SYSTEM

A. Digital Signal Processor
1. Shall meet or exceed the following specifications:
a. Minimum 12 mic/line inputs.
b. Auto-mixer functionality.
c. Feedback suppression.
d. Parametric EQ per output.
e. Room combining logic.
f. Preset recall via control processor and partition sensor.
2. Basis of Design:
a. Extron DMP 128 Plus C AT
b. Or Equal

B. Power Amplifier
1. Shall meet or exceed the following specifications:
a. Amplifier shall be four-channel, professional-grade, convection or forced-air cooled.
b. Amplifier shall be capable of delivering minimum 600 watts per 70V channel.
c. Amplifier shall be capable of continuous operation at full rated load without thermal shutdown.
d. Each channel shall serve one room of the divisible Large Group Instruction space as follows:
- Channel 1 – Room A Pendant Speakers (6)
  - Minimum 400W @ 70V
- Channel 2 – Room A Ceiling Speakers (3)
  - Minimum 200W @ 70V
- Channel 3 – Room B Pendant Speakers (3)
  - Minimum 300W @ 70V
- Channel 4 – Room B Ceiling Speakers (3)
  - Minimum 200W @ 70V

e. Amplifier shall be sized such that total connected loudspeaker load does not exceed 80% of rated output capacity per channel under normal operating conditions.
f. Design connected load per room shall be approximately 240W–300W depending on final transformer tap settings, providing adequate headroom for:
- Speech reinforcement
- Music program material
- Community event use
- Dynamic peak levels without clipping

2. Amplifier shall support:
a. 70V constant voltage operation
b. Balanced line-level inputs
c. Signal presence indicators
d. Independent gain controls
e. Protection circuitry (thermal, short circuit, overcurrent)
3. Amplifier shall be rack-mounted in central AV equipment rack.
4. Contractor shall verify total transformer tap load and submit final amplifier load calculation with shop drawings.
5. Basis of Design - Extron XPA U 2004 SB or Equal

C. Loudspeakers
1. Provide complete distributed loudspeaker systems for each room of the divisible Large Group Instruction space.
2. Loudspeakers shall be 70V constant voltage type with integral multi-tap transformer.
3. All loudspeakers shall be:
a. UL listed
b. Plenum rated where installed in air handling spaces
c. Suitable for speech reinforcement and moderate music program material
d. Provided with seismic restraint where required by code
e. Finished to match ceiling/architectural conditions (white unless noted otherwise)
f. Transformer taps shall be field selectable and coordinated with final amplifier load calculations.
4. Provide all mounting hardware, backcans, tile bridges, grilles, suspension cables, and safety cables required for a complete installation.
5. Pendant Type Loudspeakers (High-Ceiling Areas)
6. Pendant loudspeakers shall be provided for high-ceiling areas as indicated on the drawings.
a. Pendants shall meet or exceed the following specifications:
- Frequency response: 65 Hz – 20 kHz (±10 dB minimum)
- Minimum continuous power handling: 60W
- Transformer taps: 15W, 30W, 45W, 60W (minimum)
- Coverage pattern: 100° conical minimum
- Sensitivity: Minimum 87 dB SPL (1W/1m)
- Maximum SPL: Minimum 105 dB continuous
- Sealed enclosure design
- Suspension via manufacturer-supplied cable system
- Secondary independent safety cable attached to structure
- Cabling concealed within suspension cable where available
b. Basis of design - Extron SF 26PT or Equal
7. Ceiling Type Loudspeakers
a. Ceiling loudspeakers shall be provided as indicated on the drawings. Ceiling speakers shall meet or exceed the following specifications:
- 8-inch coaxial driver minimum
- Frequency response: 70 Hz – 20 kHz (±10 dB minimum)
- Transformer taps: 7.5W, 15W, 30W (minimum)
- Sensitivity: Minimum 88 dB SPL (1W/1m)
- Wide dispersion for even coverage
- Plenum-rated backcan
- Powder-coated steel grille
- Tile bridge support rail system
- Seismic tie wire attachment point
b. Basis of design - Extron SF 26CT or Equal

D. Wireless Microphone System
1. Wireless Microphone Receiver
a. Shall meet or exceed the following specifications:
- Two channel digital wireless receiver, rack mountable.
- Shall utilize a 64 MHz bandwidth.
- Shall provide digital predictive switching for true diversity.
- Shall have up to 60 frequency presets available.
- Shall provide automatic frequency scanning.
- Transmitters and receivers shall utilize a metal housing.
- Coordinate operating frequency with local RF environment.
b. Basis of design - Shure ULXD4D or Equal

2. Directional Antennas

a. Shall be wall-mounted at high elevation or ceiling grid mounted.
b. Basis of design - Shure UA874 – qty 2

3. Wireless Microphone Transmitters
a. Handheld transmitter – Basis of design: Shure ULXD2/SM58 – qty 2
b. Bodypack transmitter – Basis of design: Shure ULXD1 – qty 2
c. Lavalier microphone – Basis of design: Shure WL185 – qty 2
d. Rechargeable 8-bay charging station and rechargeable batteries. Include one spare battery per transmitter. Basis of design: Shure SB900C – qty 8, Shure SBC8000 – qty 1

E. Rack Mounted Media Player
1. Shall meet or exceed the following specifications:
a. Digital media player - Blu-Ray, DVD, CD and files from SD/USB media
b. RS-232C and IP control capability
c. Shall be 1RU rack mountable
d. Basis of design - Denon Pro DN-500BD MKII or equal

2.3 CONTROL SYSTEM

A. Control Processor
1. Provide a fully integrated control system capable of managing:
a. Video Matrix Switching
b. Audio DSP and volume control
c. Display power and input control
d. Media player
e. Room combine/divide logic
f. Projection screen control
g. Power sequencing
h. Shall provide for control of entire AV system including, but not limited to, system power, source selection, screen control and audio volumes.
2. Basis of design - Extron IPCP Pro 255Q xi with TLCA 1 TouchLink Control Port Expansion Adapters, IPL EXP S5 bidirectional RS-232 as required or Equal

B. Touch Panel Control – in Cafeteria
1. Shall meet the following specifications:
a. Shall have Ethernet monitoring and control.
b. Shall have a capacitive touch screen interface.
c. Shall have a resolution of 1024x600.
d. Shall be 7” diagonal.
e. Shall have a contrast ratio of 700:1
f. Provide all necessary hardware and brackets required for installation.
g. Confirm final color with owner prior to procurement & installation.
2. Basis of Design - Extron TLP Pro 725M or Equal

C. Touch Panel Control – in Rack
1. Shall meet the following specifications:
a. Shall have Ethernet monitoring and control.
b. Shall have a capacitive touch screen interface.
c. Shall have a resolution of 1280x800.
d. Shall be 10” diagonal.
e. Shall have a contrast ratio of 800:1
f. Provide all necessary hardware and brackets required for installation.
g. Confirm final color with owner prior to procurement & installation.
2. Basis of Design - Extron TLP Pro 1025M or Equal

D. Hearing Assist Transmitter

1. Shall meet or exceed the following specifications:
    a. Shall have a minimum of two (2) balanced audio inputs on XLR and/or RCA connectors.
    b. Shall have an internal audio compressor.
    c. Shall have an operating frequency of 216MHz.
    d. Shall have a maximum output power of 100mW.
    e. Provide remote antenna as shown on the drawings.
    f. Provide quantity and type of receivers to meet ADA requirements.
    g. Provide charging carrying case to accommodate all receivers.
    h. Acceptable Manufacturers:
        - Listen Tech LT-800-216
        - Listen Tech LA-122
        - Listen Tech LT-400-216
        - Listen Tech LA-164
        - Listen Tech LA-165
        - Listen Tech LA-166

2.4 LOUDSPEAKER RIGGING COMPONENTS

A. Contractor shall provide and install speaker rigging components as necessary to mount loudspeakers as shown on the drawings.

B. Structural support members to have a safety factor of at least 5. Mounting hardware and wire rope to have a safety factor of 8. All fasteners to be graded and certified for use in the intended

applications. Overhead suspension hardware shall comply with ASME B30.20 standards and all applicable local building and safety codes.

C. Overhead suspension hardware must be of a type that includes product traceability controls.

D. Once the systems are installed, the engineer shall physically inspect the methods and means used to verify compliance with the original design.

E. Loudspeaker Rigging Components shall meet or exceed the following specifications:

1. Loudspeaker Rigging Components shall be made of quenched or tempered forged steel.
2. Loudspeaker Rigging Components shall meet or exceed all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements.
3. Loudspeaker Rigging Components shall be hot dip galvanized or self-colored.
4. Shackles shall meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class1.
5. Turnbuckles shall meet the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 4, and ASTM F-1145.
6. Wire rope thimble shall meet the performance requirements of Federal Specification FF-T-276b Type II.
7. Wire rope shall be sized as 7x19 utility cable.
8. Provide all screw pin type shackles with mouse wire.
9. All end fittings shall be moused to the body with mousing cable.
10. Select size of product based working load limits required.
11. Acceptable product:
    a. Chicago Hardware Company
    b. Crosby Group
    c. Wire Rope Corporation of America (WRCA)

2.5 AV EQUIPMENT RACK

A. Shall meet or exceed the following specifications:
   1. Shall have 44 units of available rack space.
   2. Shall have 16-gauge steel construction with black textured powder coat finish.
   3. Shall have side panels and fans for proper cooling.
   4. Shall have an overall depth of 26” and useable depth of 24”.
   5. Acceptable Manufacturers:
      a. Middle Atlantic MRK-4426-AV
      b. Or Equal

2.6 EQUIPMENT RACK BLANKS

A. Contractor to provide equipment rack blanks where required.

B. Shall meet or exceed the following specifications:
   1. Shall have a flanged construction.
   2. Shall be made of 1/16” thick aluminum.
   3. Shall have a black brushed and anodized finish.
   4. Provide rack blank sizes as required.
   5. Acceptable Manufacturers:
      a. Middle Atlantic BL Series
      b. Or Equal

2.7 EQUIPMENT RACK VENTS

A. Contractor to provide equipment rack vents where required.

B. Equipment rack vents shall meet or exceed the following specifications:
   1. Shall have a flanged construction.
   2. Shall be made of 1/16” thick aluminum.
   3. Shall have a black brushed and anodized finish.
   4. Provide rack vent sizes as required.
   5. Acceptable Manufacturers:
      a. Middle Atlantic VTP Series
      b. Or Equal

2.8 MICROPHONE/LINE LEVEL CABLING

A. Contractor shall provide and install microphone/line level cabling as required.
   1. Provide cabling meeting the following specifications:
      a. Minimum shielded 22 AWG, 7x30 stranded cabling
      b. Nominal conductor to conductor capacitance: 114 pF/m
      c. Tinned copper drain wire
      d. Cable to be PVC jacketed.
   2. Acceptable Manufacturers
      a. Belden 9451
      b. Or Equal

2.9 12AWG LOUDSPEAKER CABLING

A. Contractor shall provide and install 12AWG loudspeaker cabling as required.
   1. Provide speaker cabling meeting the following specifications:
      a. Minimum unshielded 12 AWG, 65x30 stranded cabling
      b. Nominal conductor to conductor capacitance: 32 pF/ft
      c. Cable to be PVC jacketed.
   2. Acceptable Manufacturers
      a. Belden 5000UP

b. Or Equal

2.10 16AWG LOUDSPEAKER CABLING

A. Contractor shall provide and install 16AWG loudspeaker cabling as required.
1. Provide speaker cabling meeting the following specifications:
a. Minimum unshielded 16 AWG, 65x34 stranded cabling
b. Nominal conductor to conductor capacitance: 98 pF/ft
c. Cable to be PVC jacketed.
2. Acceptable Manufacturers
a. Belden 5200UP
b. Or Equal

2.11 UTP CABLING

A. Contractor shall provide and install UTP cabling as required per manufacturer's recommendations.
1. Provide UTP cabling meeting the following specifications.
a. Minimum 24 AWG, eight (8) conductor cable
b. Nominal conductor to conductor capacitance: 15 pF/ft
2. Acceptable Manufacturers
a. Belden
b. Commscope
c. General Cable
d. Superior Essex
e. Or Equal

2.12 XTP CABLING

A. Contractor shall provide and install XTP cabling as required per manufacturer's recommendations.
1. Acceptable Manufacturers
a. Extron
b. Or Equal

2.13 HDMI CABLING

A. Contractor shall provide and install HDMI cabling as required.
1. Provide pre-molded cables in lengths as required.
2. Shall support HDMI signal transmission up to 328 ft. via optical cabling.
3. Shall support up to 4k 60Hz 4:4:4 HDR video.
4. Shall meet HDMI 2.0/HDCP 2.2 testing standards.
5. Shall be plenum rated.
6. Shall not require external power.
7. Acceptable Manufacturers
a. FSR HDMI 2.0 Digital Ribbon Cables
b. Or Equal

2.14 RS-232 CABLING

A. Contractor shall provide and install RS-232 cabling as required.
1. Provide pre-molded cables in lengths as required.
2. Acceptable Manufacturers
a. Extron
b. Or Equal

2.15 RELAY CABLING

A. Contractor shall provide and install relay cabling as required.
   1. Provide control cabling meeting the following specifications:

      a. Minimum unshielded 22 AWG, 26x34 stranded cabling
      b. Nominal conductor to conductor capacitance: 98 pF/m
      c. Provide number of conductors as required.
   2. Acceptable Manufacturers
      a. Belden
      b. Or Equal

2.16 RF CABLING

A. Contractor shall provide and install RF cabling as required.
   1. Provide RF cabling meeting the following specifications:

      a. Provide RG-8X type cable.
      b. Center conductor 16 AWG solid.
      c. Gas-injected FPE insulation
      d. Cable to be PVC jacketed.
   2. Acceptable Product:
      a. Belden 9258
      b. Or Equal

2.17 CUSTOM FACEPLATE

A. Contractor shall provide plates as required by the T-series drawings. Engrave as shown on the drawings.

B. Contractor shall coordinate plate finish and color with the Owner. Plastic plates are not acceptable.

C. On dark plates, letters shall be white; on stainless steel or brushed natural aluminum plates, letters shall be black.

D. Custom and/or engraved plates/panels:
   1. Custom panels constructed of 1/8-inch brushed aluminum
   2. Finish: Black Anodized.
   3. Acceptable Manufacturer:
      a. ProCo
      b. Or Equal

2.18 GROMMETED FACEPLATES

A. Contractor shall provide grommet faceplates as needed by audio and video locations as shown on the T-series drawings.

B. Grommet faceplates shall provide a minimum of 1.5” Diameter opening for cable pass-through unless otherwise noted.

C. Contractor shall coordinate plate finish and color with the Owner. Plastic plates are not acceptable.

D. Grommeted plates/panels:
   1. Custom panels constructed of 1/8-inch brushed aluminum
   2. Finish: Black Anodized.

3. Acceptable Manufacturer:
    a. ProCo
    b. Or Equal

2.19 XLR PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of XLR jacks as needed.

B. Provide XLR jack meeting the following specifications:
1. XLR jack shall be panel mounted with metal shell.
2. XLR jack shall utilize gold contact solder terminations.
3. Shell color shall match plate finish.
4. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.20 RCA PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of RCA jacks as needed.

B. Provide RCA jack meeting the following specifications:
1. RCA jack shall be panel mounted with metal shell.
2. RCA jack shall utilize gold contact solder terminations.
3. Shell color shall match plate finish.
4. Each RCA jack shall have correct color code depending on input (i.e. left or right).
5. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.21 BNC PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of BNC jacks as needed.

B. Provide BNC jack meeting the following specifications:
1. BNC jack shall be panel mounted with metal shell.
2. BNC jack shall utilize an RF protector.
3. BNC jack shall utilize a feed-through connector.
4. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.22 ETHERNET PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of Ethernet jacks as needed.

B. Provide Ethernet jack meeting the following specifications:
1. Ethernet jack shall be panel mounted with metal shell.
2. Ethernet jack shall utilize bronze contact terminations.
3. Acceptable Manufacturers:
    a. Neutrik
    b. Switchcraft
    c. Or Equal

2.23 HDMI PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of HDMI jacks as needed.

B. Provide HDMI jack meeting the following specifications:
   1. Shall be compatible with telecom faceplate.
   2. Shall meet HDMI 1.4 standards.
   3. Shall utilize a Type A female port.
   4. Color shall match telecom faceplate.
   5. Acceptable Manufacturers:
      a. Panduit CMHDMIXX
      b. Or Equal

2.24 RS-232 PANEL MOUNT CONNECTORS

A. Contractor shall provide the quantity of RS-232 jacks as needed.

B. Provide RS-232 jack meeting the following specifications:
   1. Shall be compatible with telecom faceplate.
   2. Shall provide RS-232 female port.
   3. Color shall match telecom faceplate.
   4. Acceptable Manufacturers:
      a. Panduit CMD15HDXXX
      b. Or Equal

2.25 XLR CABLE CONNECTORS

A. Contractor shall provide the quantity of XLR cable connectors as needed.

B. Provide XLR cable connector meeting the following specifications:
   1. XLR cable connector shall have black die-cast shell.
   2. XLR cable connector shall utilize gold contact solder terminations.
   3. XLR cable connector shall include strain relief.
   4. Acceptable Manufacturers:
      a. Neutrik
      b. Switchcraft
      c. Or Equal

2.26 RCA MALE CABLE CONNECTORS

A. Contractor shall provide the quantity of RCA male cable connectors as needed.

B. Provide RCA cable connector meeting the following specifications:
   1. RCA cable connector shall have a silver die-cast shell.
   2. XLR jack shall utilize silver contact solder terminations.
   3. Acceptable Manufacturers:
      a. Neutrik
      b. Switchcraft
      c. Or Equal

2.27 BNC CABLE CONNECTORS

A. Contractor shall provide the quantity of BNC cable connectors as shown on the T-series drawings.

B. Provide BNC cable connector meeting the following specifications:
   1. BNC cable connector shall have brass or copper contacts.
   2. BNC cable connector shall utilize a crimp termination.
   3. BNC cable connector shall provide the proper impedance.

4. Acceptable Manufacturers:
   a. Kings
   b. Amphenol
   c. Canare

PART 3 - EXECUTION

3.1 GENERAL

A. Coordinate incorporation of the Work specified herein with other project work to facilitate a cohesive final product.

B. The installation recommendations contained within ASDI and Telecommunications Distribution Methods Manual are mandatory minimum standards and requirements.

C. Mount equipment and enclosures plumb and level.

D. Permanently installed equipment to be firmly and safely held in place. Design equipment supports to support loads imposed with a safety factor of at least five.

E. Seismic bracing shall be installed on appropriate equipment where local codes require such installation.

F. Verify all locations of equipment in all rooms with Owner's Representative, Owner, and Consultant.

G. Follow all manufacturer requirements and recommendations for the installation of all AV equipment.

3.2 CEILING MOUNTED SPEAKERS

A. Shall be wired in parallel according to Manufacturer specifications.

B. All speaker cabling shall be supported above the ceiling and may not rest on ceiling tiles or other structural devices.

C. A minimum five (5) foot service loop shall be provided and secured above each speaker.

3.3 RACK MOUNT POWER SEQUENCER

A. Contractor to ensure all equipment is powered in the correct order to avoid audible pops or click from the audio-video system in response to the power sequencing.

3.4 AUDIO VIDEO CONTROL SYSTEM

A. Control system shall be programmed to at a minimum switch between available AV sources, power on/off video projector and control audio source and system volume.

B. Contractor to provide iterations of the touchscreen layout and programming for review by the Owner and Consultant. The first phase will involve only the layout and proposed operation. Once reviewed, the Contractor will utilize this information to begin programing the touch panels. The touch panels will be reviewed again after the programming has been implemented in the field. Any changes from this phase shall be incorporated into the work. Final review will occur at the one-year walk-through.

3.5 CABLING

A. All cable routing shall meet Owner's standards.

B. Run wire with conduit, exposed above accessible ceilings, below accessible floors, cable trays and in riser rooms.

C. Provide plenum cabling where required.

D. J-hooks shall be used so cables are supported at a maximum of 4 feet intervals. Cables shall not rest on light fixtures, ceiling tiles, conduits, sprinkler pipes, HVAC ducting, or any other building structure. Provide appropriate support for all horizontal to vertical transitions to keep weight of cable from damaging the point of transition.

E. Horizontal cabling shall be in groups of no more than 60 cables when supported by J-hooks.

F. Cable runs shall be continuous from device location to the point of termination. Properly installed transition points are acceptable.

G. Provide plastic cable ties or Velcro straps to bundle cabling. Electrical tape or adhesive backed cable ties are not acceptable.

H. Isolate cabling of different signals to minimize crosstalk. Separate wiring between microphone/line level circuits, loudspeaker circuits, and power circuits.

I. Dress, lace, and/or harness all wiring and cabling to prevent mechanical stress on electrical connections. Neatly tie cabling in bundles with cable lengths cut to minimize excess slack.

J. Provide adequate service loops to allow equipment racks to be pulled out for servicing.

K. To prevent against electrostatic hum, on unused shields, fold back shield over cable jacket and cover with heat-shrink tubing. Do not cut off unused shield.

L. Provide grommets and strain relief material where necessary to avoid abrasion of wire and excess tension on wire and cable.

3.6 COMPONENT CONNECTIONS

A. Prepare wire ends for attachment to components in accordance with manufacturer recommendations.

B. Wire nuts shall not be an acceptable means of connecting wire or cable.

3.7 LABELING

A. Cables, jacks, system components, etc. shall be labeled according to ANSI/EIA/TIA-606 specifications and in coordination with the District/Technology Consultant.

B. All Audio-Video cables shall be equipped with a self-laminating, wrap-around machine printed label at both ends of the cable and wiring label permanently affixed for easy identification.

C. Cover labels with clear heat-shrink tubing.

D. Hand-written labels are not acceptable.

E. Locate the cable designator at the origination and destination of each circuit within 3 inches of the termination.

3.8 AUDIO VIDEO PLATE INSTALLATION

A. Install plate mounted connectors rigidly attached to plates, plumb and level.

B. Install XLR type connectors in accordance with IED-268 standard.

3.9 TESTING

A. Prior to turning on the system, verify all electronic devices are properly grounded and each audio video AC receptacle has the proper hot, neutral, and ground connections.

B. Audio Testing:
1. Verify each amplifier channel is correctly wired by providing a test signal to each channel and verify the correct speakers are operating.
2. Adjust the input and output gain of each device to properly set the system gain.
3. Adjust the output level of each amplifier channel and/or speaker tap settings to achieve 85 dB ± 2 dB in the area covered by the respective speaker zone when the output of the sound reinforcement system is set to 0 dBu.
4. Equalize all loudspeakers to provide an acceptable frequency response based on the specifications of the provided loudspeakers.
5. Verify no hum or buzz is present in the system at all operating levels. If present, propose a resolution and correct the issue at no cost to the Owner.

C. Video Testing:
1. Using a video signal generator, verify performance of all equipment meets manufacturer's specifications.
2. Verify correct operation of all inputs and outputs through audio video matrix switcher.

3.10 TRAINING

A. After final completion, provide instruction to Owner designated personnel.

B. Provide a minimum of twenty-four (24) hours of training to the Owner. Plan for multiple training trips to the site. Training session(s) shall cover the following topics at a minimum:
1. System Equipment Connectivity
2. Device Configurations
3. Operation, maintenance, and upgrade procedures.

C. Training to be arranged with Owner personnel and be coordinated with Owner personnel and their needs.

D. Training plan, timeline, and agenda shall be provided to and signed off by Owner.

E. Warranty certificate and agreement shall be provided to Owner at initial training session.

F. Provide a digital video copy of the training sessions.

G. Contractor to be present at first two (2) uses of the facility.

3.11 SYSTEM ACCEPTANCE

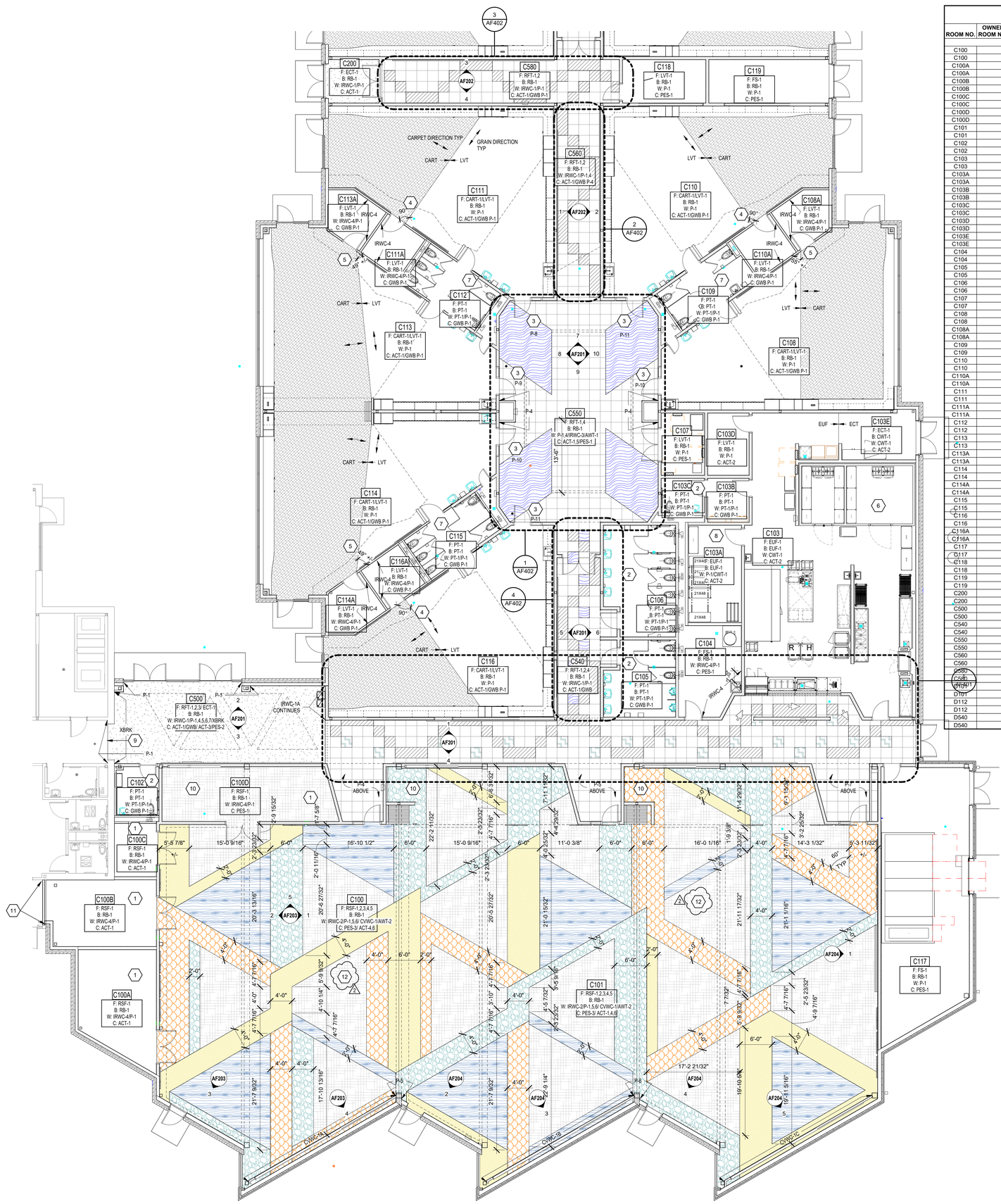
A. Contractor shall demonstrate to the Owner that all systems have been installed per the plans and specifications and that all programming functions, display functions, control functions and all interfaced equipment operate as expected.

B. Contractor shall demonstrate to the Owner that all the end user staff has a working knowledge of how to operate the installed equipment and that the facilities staff also has a

working knowledge of the troubleshooting methods for non-critical service problems.

C. Contractor shall collaborate with the General Contractor to complete all punch lists and work required to allow the General Contractor to close out his project in a timely manner. This will include but not limited to any work that would impact any final inspection for turnover of the building.

END OF SECTION 27 41 16



1 ENLARGED FLOOR PATTERN - C540

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

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
C100		GYM / RECREATIONAL ROOM	2,515 SF
C100		GYM / RECREATIONAL ROOM	2,515 SF
C100A		STORAGE	274 SF
C100A		STORAGE	274 SF
C100B		CHAIR STORAGE	248 SF
C100B		CHAIR STORAGE	248 SF
C100C		PLAY EQUIPMENT	77 SF
C100C		PLAY EQUIPMENT	77 SF
C100D		STORAGE	318 SF
C100D		STORAGE	318 SF
C101		CAFETERIA	5,761 SF
C101		CAFETERIA	5,761 SF
C102		FAMILY RR	70 SF
C102		FAMILY RR	70 SF
C103		KITCHEN	1,515 SF
C103		KITCHEN	1,515 SF
C103A		KITCHEN STORAGE	177 SF
C103A		KITCHEN STORAGE	177 SF
C103B		LOCKERS	62 SF
C103B		LOCKERS	62 SF
C103C		RESTROOM	51 SF
C103C		RESTROOM	51 SF
C103D		OFFICE	88 SF
C103D		OFFICE	88 SF
C103E		KITCHEN VESTIBULE	122 SF
C103E		KITCHEN VESTIBULE	122 SF
C104		CUSTODIAL	220 SF
C104		CUSTODIAL	220 SF
C105		MEN'S RESTROOM	173 SF
C105		MEN'S RESTROOM	173 SF
C106		WOMEN'S RESTROOM	258 SF
C106		WOMEN'S RESTROOM	258 SF
C107		ELECTRICAL	92 SF
C107		ELECTRICAL	92 SF
C108		CLASSROOM 3	1,090 SF
C108		CLASSROOM 3	1,090 SF
C108A		STORAGE	79 SF
C108A		STORAGE	79 SF
C109		TOILET	136 SF
C109		TOILET	136 SF
C110		CLASSROOM 4	1,085 SF
C110		CLASSROOM 4	1,085 SF
C110A		STORAGE	73 SF
C110A		STORAGE	73 SF
C111		CLASSROOM 5	1,085 SF
C111		CLASSROOM 5	1,085 SF
C111A		STORAGE	73 SF
C111A		STORAGE	73 SF
C112		TOILET	136 SF
C112		TOILET	136 SF
C113		CLASSROOM 6	1,089 SF
C113		CLASSROOM 6	1,089 SF
C113A		STORAGE	79 SF
C113A		STORAGE	79 SF
C114		CLASSROOM 2	1,089 SF
C114		CLASSROOM 2	1,089 SF
C114A		STORAGE	79 SF
C114A		STORAGE	79 SF
C115		TOILET	135 SF
C115		TOILET	135 SF
C116		CLASSROOM 1	1,088 SF
C116		CLASSROOM 1	1,088 SF
C116A		STORAGE	73 SF
C116A		STORAGE	73 SF
C117		MECHANICAL	771 SF
C117		MECHANICAL	771 SF
C118		IT CLOSET	123 SF
C118		IT CLOSET	123 SF
C119		MAINTENANCE	178 SF
C119		MAINTENANCE	178 SF
C200		VESTIBULE	75 SF
C200		VESTIBULE	75 SF
C500		CORRIDOR	1,838 SF
C500		CORRIDOR	1,838 SF
C540		CORRIDOR	272 SF
C540		CORRIDOR	272 SF
C550		CORRIDOR	1,218 SF
C550		CORRIDOR	1,218 SF
C560		CORRIDOR	293 SF
C560		CORRIDOR	293 SF
C580		CORRIDOR	380 SF
C580		CORRIDOR	380 SF
D101		CLASSROOM 7	1,076 SF
D101		CLASSROOM 7	1,076 SF
D112		CLASSROOM 14	1,076 SF
D112		CLASSROOM 14	1,076 SF
D540		CORRIDOR	259 SF
D540		CORRIDOR	259 SF

GENERAL FINISH NOTES

A. FIXED CASEWORK AND TACKBOARDS SHALL REMAIN IN PLACE (UNO). NEW WALL FINISHES SHALL BE INSTALLED AROUND THESE ITEMS.
B. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
C. REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.
D. EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO THERMOSTATS, AND FIRE EXTINGUISHER CABINETS (UNO).
E. RESILIENT TRANSITION STRIP BETWEEN NEW FLOOR FINISH AND EXISTING FLOOR FINISH.
F. PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO EXISTING FLOOR FINISH.
G. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
H. EXISTING INTERIOR DOOR FRAMES ARE TO REMAIN. DO NOT PAINT.
I. PAINT ALL NEW INTERIOR DOOR FRAMES TO MATCH EXISTING DOOR FRAME COLOR. PAINT ON ALL FACES (PAINT CODE #5.12).
J. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS, TO RECEIVE NEW FINISHES.

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
1	THIS ROOM TO RECEIVE IWRC-4 UP TO 8'. PAINT ABOVE. REFER TO LIST OF FINISHES
2	ALL WALLS IN THIS ROOM TO RECEIVE PORCELAIN WALL TILE UP TO 6'-0" AND PAINT FROM 6'-0" TO CEILING
3	PAINT ENTIRE DOOR FRAME ACCENT COLOR AS INDICATED
4	ALIGN FLOOR TRANSITION WITH EDGE OF DOOR FRAME.
5	ALIGN FLOOR TRANSITION WITH CORNER OF WALL.
6	CONTINUE EUF-1 FLOORING INTO WALK IN COOLER/FREEZER UNITS. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR WALL AND CEILING FINISHES.
7	ALL WALLS IN THIS ROOM TO RECEIVE PORCELAIN WALL TILE UP TO 5'-6" WITH 6"H TILE AT BASE AND PAINT FROM 5'-6" TO CEILING
8	ALL WALLS IN THIS ROOM OR EXTENTS AS INDICATED TO RECEIVE CERAMIC WALL TILE UP TO 6'-0" AND PAINT FROM 6'-0" TO CEILING
9	INSTALL METAL TRANSITION SIMILAR TO GRADUS KA576 TO GO FROM EXISTING RUBBER TILE TO NEW ECT.
10	IRWC CONTINUES ON ALL WALLS. CUT IRWC TO FIT AROUND STRUCTURE.
11	INSTALL RB-1 ON ALL WALLS IN ROOM AND PAINT NEW GWB P-1.
12	ALL EXPOSED STRUCTURAL MEMBERS, INCLUDING COLUMNS, AND DUCTS TO BE PAINTED TO MATCH PES-3.

FLOOR PATTERN LEGEND

- CART-1
- RFT-1
- RFT-2
- RFT-3
- RFT-4
- ECT-1
- SVF-1
- SVF-2
- SVF-3
- SVF-4
- SVF-5

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

PIKE MSD/NATHANIEL JONES ELC EXPANSION

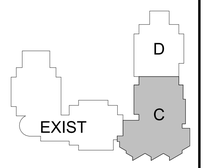
7839 New Augusta Rd
Indianapolis, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

317.848.00966 WWW.FHAI.COM
350 E New York St, Ste 300 Indianapolis, IN 46060



KEY PLAN

BID DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: PW
DRAWN BY: MKH
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 2-26-2026

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM-03	03-30-2026

FIRST FLOOR FINISH PLAN - UNIT C

AF11C

LIST OF FINISHES

REFER TO AQ ARCH. DWG. SHEETS

EQUIPMENT MATERIALS

HP PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 (CABS)	WILSONART	MISTED ZEPHYR 4843-60
PL-2 (COUNTERS)	WILSONART	CRISP LINEN 4942-38
PL-3 (SERVING)	NEVAMAR	FINE SYCAMORE W-8351T

SOLID SURFACE MATERIAL

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SSM-1	WILSONART	FROSTY WHITE MIRAGE 1573MG

TACKBOARD

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TB-A	DESIGNTEX "GAMUT" 4'-0"H	PEBBLE 3468-803
TB-B (CORRIDORS)	CARNEGIE XOREL "METEOR" 1'-0"H	6427-766

TACKABLE WALL SURFACE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TWS-1	CARNEGIE XOREL "FRACTAL EMBOSS"	6261-706
TWS-2	CARNEGIE XOREL "METEOR"	6427-766

PHENOLIC TOILET PARTITIONS/COMPARTMENTS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TPP-1	BOBRICK - SOLID PHENOLIC EAD DESIGN - SOLID PHENOLIC	PANELS, PILASTERS AND DOORS TO MATCH ARBORITE PLASTIC LAMINATE MARIGOLD TWILL P-384 CA.
TPP-2	REFER TO SPECS	PANELS, PILASTERS AND DOORS TO MATCH FORMICA PLASTIC LAMINATE FLAX GAUZE 7708-58.

MARKERBOARD

WHITE

CORNER GUARDS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CG-1	CS ACROVYN	MISSION WHITE 933
CG-2 (TEAL)	CS ACROVYN	BALTIC BLUE
CG-3 (BLUE)	CS ACROVYN	BRIGHTS

ROLLER WINDOW SHADE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RWS	DRAPER "E-SCREEN"	PEARL/LINEN 5% OPENNESS

CUBICLE CURTAINS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CC	INPRO "SOFETTI"	CHAMOMILE

KICKPLATES

STAINLESS STEEL

OPERABLE PANEL PARTITION

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
OP-1 (CLASSROOMS)	REFER TO SPECIFICATIONS / KOROSEAL INTERLOOM	COCONUT NM21-02
OP-2 (MULTIPURPOSE)	REFER TO SPECIFICATIONS / CARNEGIE XOREL "METEOR"	TO BE SELECTED
OP-3 (MULTIPURPOSE)	REFER TO SPECIFICATIONS / CARNEGIE XOREL "METEOR"	TO BE SELECTED

EQUIPMENT MATERIAL/FINISH GEN. NOTES

A. COLOR SELECTION OF ALL FINISHES FOR INTERIOR ARCHITECTURAL WOODWORK/CUSTOM CASEWORK ITEMS ARE NOTED ON CASEWORK ELEVATIONS AND DETAIL DRAWINGS.

B. EDUCATION CASEWORK FINISHES ARE AS FOLLOWS (UNLESS OTHERWISE NOTED):
- HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED.
- HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED.
- INTERIOR MELAMINE TO BE WHITE.
- OPEN CASEWORK AND CASEWWORK WITH GLASS DOORS TO HAVE LAMINATE INTERIOR TO MATCH EXTERIOR.
- 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-2.
- 3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH PL-1.
- HANDLES TO BE BRUSHED CHROME.
- HINGES TO BE BRUSHED CHROME.
- GROMMETS TO MATCH MOCKETT 95-WHITE.
- TECHNOLOGY CABINET VENT COLOR TO BE DETERMINED.

C. REFER TO FOOD SERVICE DRAWINGS FOR MORE INFORMATION.

D. SOLID SURFACE WINDOW SILLS TO BE SSM-1.

LIST OF FINISHES

REFER TO AF ARCH. DWG. SHEETS

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CART-1	TANDUS CENTIVA "THIN LINES 04631" SIZE: 18"x36"	STORMY SKY 71407 INSTALL: VERTICAL ASHLAR

- ALL SPECIFIED MANUFACTURER'S MUST HAVE A MINIMUM FACE WEIGHT OF 20 oz./yd.
- ALL CARPET BACKING TO HAVE A MOISTURE RESISTANT BARRIER.
- SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.

ENTRANCE CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ECT-1	INTERFACE "STEP REPEAT 799"	GRANITE

- QUARTER TURN INSTALLATION

LUXURY VINYL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LVT-1	MANNINGTON " SPACIA"	DRY CEDAR, 7.25"x48"

PORCELAIN TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PT-1	CROSSVILLE "RETROACTIVE 2.0" SIZE: 12"x12"X5/16" FINISH: HYBRID TILE FINISHING SYSTEM - REFER TO SPECS	FEATHERSTONE C370-CCS

RUBBER FLOOR TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RFT-1	JOHNSONITE "COLOR SPLASH"	SPOKANE WARM VE3
RFT-2	JOHNSONITE "COLOR SPLASH"	PUGET SOUND VK3
RFT-3	JOHNSONITE "COLOR SPLASH"	SAN JUAN VK1
RFT-4	JOHNSONITE "COLOR SPLASH"	MARINER VH1

- ALL RFT TO BE 24"x24" TILE, U.N.O.
- RUBBER TULE TO HAVE A HAMMERED FINISH

RESILIENT SHEET FLOORING

HEAT WELD

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RSF-1	NORA, NORAPLAN "SENTICA"	CASHMERE 6506
RSF-2	NORA, NORAPLAN "SENTICA"	HEAT WAVE 6514
RSF-3	NORA, NORAPLAN "SENTICA"	REGATTA 6531
RSF-4	NORA, NORAPLAN "SENTICA"	DESTINATION 6535
RSF-5	NORA, NORAPLAN "SENTICA"	HAYRIDE 6513

- ALL HEAT WELDS TO MATCH FLOOR COLOR.
- SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT AND WELD COLORS PRIOR TO INSTALLATION FOR APPROVAL.

FLUID-APPLIED EPOXY URETHANE FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
EUF-1	REFER TO SPECIFICATIONS	ARCHITECT TO CHOOSE FROM FULL RANGE OF MANUFACTURER STANDARDS

FLOOR SEALER

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
FS-1	REFER TO SPECIFICATIONS	CLEAR

BASE MATERIALS

FLUID-APPLIED EPOXY URETHANE FLOORING (INTEGRAL COVE BASE)

6"H COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
EUF-1	REFER TO SPECIFICATIONS	MATCH EUF-1 FLOORING

PORCELAIN TILE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PT-1	CROSSVILLE "RETROACTIVE 2.0" SIZE: 6"x12"X5/16" FINISH: HYBRID TILE FINISHING SYSTEM - REFER TO SPECS	FEATHERSTONE C370-CCS

RESILIENT BASE

COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RB-1	JOHNSONITE, 4"H	FAWN 80
RB-2	JOHNSONITE, 2.5"H	MATCH EXISTING

WALL FINISHES

PAINT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
P-1 (FIELD)	SHERWIN WILLIAMS	SW7010 WHITE DUCK
P-2 (FRAMES-GEN)	SHERWIN WILLIAMS	SW7018 DOVETAIL
P-3	SHERWIN WILLIAMS	SW7030 ANEW GRAY
P-4 (BLUE)	PPG	SINGING THE BLUES 1159-7
P-5 (TEAL)	SHERWIN WILLIAMS	SW6497 LAKESHORE
P-6	SHERWIN WILLIAMS	SW6669 YARROW
P-7	SHERWIN WILLIAMS	SW6355 TRUEPENNY
P-8 (FRAME CLASS)	BENJAMIN MOORE	2073-30 PASSION PLUM
P-9 (FRAME CLASS)	SHERWIN WILLIAMS	SW6768 GULFSTREAM
P-10 (FRAME CLASS)	BENJAMIN MOORE	2019-40 AMERICAN CHEESE
P-11 (FRAME CLASS)	SHERWIN WILLIAMS	SW6796 BLUE PLATE

PORCELAIN WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PT-1	CROSSVILLE "RETROACTIVE 2.0" SIZE: 12"x12"X5/16" FINISH: HYBRID TILE FINISHING SYSTEM - REFER TO SPECS	FEATHERSTONE C370-CCS

CERAMIC WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CWT-1 (KITCHEN)	FLORIDA TILE "FLUENT" SIZE: 3"x12"X5/16" FINISH: GLOSS	CREAM

CUSTOM VINYL WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CVWC-1A, 1B, 1C	REFER TO SPECIFICATIONS WALLCOVERING WITH UV GUARDIAN COATING	CUSTOM DIGITAL GRAPHIC ARTWORK PROVIDED BY ARCHITECT

IMPACT-RESISTANT WALLCOVERING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
IRWC-1	CS ACROVYN BY DESIGN SIZE: 4'x10' PANELS	CUSTOM DIGITAL IMAGE ARTWORK BY ARCHITECT
IRWC-2	CS ACROVYN BY DESIGN SIZE: 4'x10' PANELS	CUSTOM DIGITAL IMAGE ARTWORK BY ARCHITECT
IRWC-3	CS ACROVYN BY DESIGN SIZE: 4'x10' PANELS	CUSTOM DIGITAL IMAGE ARTWORK BY ARCHITECT
IRWC-4	CS ACROVYN WALL PROTECTION SIZE: 4'x8' PANELS	OYSTER GRAY 929

CEILING FINISHES

ACOUSTICAL CEILING TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ACT-1	REFER TO SPECIFICATIONS	WHITE, SQUARE, 2'x2'
ACT-2	REFER TO SPECIFICATIONS	WHITE, SQUARE, 2'x2'
ACT-3	ARMSTRONG "LYRA PB SHAPES DESIGNFLEX" ARMSTRONG "AXIOM TRIM"	TRIANGLE 100003, WHITE 4"H MATCH P-6
ACT 4	ARMSTRONG "LYRA CAPZ"	CUSTOM PAINT MATCH PES-3 DECK COLOR. REFER TO PLANS FOR SIZES
ACT-5	ARMSTRONG "TECTUM" 2" THICK	SW7030 ANEW GRAY
ACT-6	ARMSTRONG "ACOUSTIBUILT" ARMSTRONG "AXIOM TRIM"	P-1 P-1

PAINTED EXPOSED STRUCTURE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PES-1	REFER TO SPECIFICATIONS	SW7030 ANEW GRAY
PES-2	REFER TO SPECIFICATIONS	TO BE SELECTED
PES-3 (MULTIPURPOSE)	REFER TO SPECIFICATIONS	TO BE SELECTED

MISCELLANEOUS FINISHES

INTERIOR WOOD DOORS/ INTERIOR WOOD TRIM

- STAIN ALL WOOD DOORS, WOOD TRIM, ETC. TO MATCH MARSHFIELD "WHITE BIRCH, CLEAR 0-95".
- WOOD SPECIES TO BE PLAIN SLICED WHITE BIRCH.
- PROVIDE WOOD STAIN SAMPLES FOR VERIFICATION.

GROUT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
GT-1	LATICRETE	SILK 03

ACOUSTICAL WALL TILES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AWT-1	REFER TO SPECIFICATIONS FABRIC WRAPPED, 2" THICK	MAHARAM / MESSENGER COLOR OYSTER
AWT-2 (MULTIPURPOSE)	REFER TO SPECIFICATIONS FABRIC WRAPPED, 2" THICK	CARNEGIE XOREL / STRIE COLOR TBD

RESILIENT MOLDING ACCESSORIES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RMA	JOHNSONITE	FAWN 80

MATERIAL & FINISH GENERAL NOTES

GENERAL
A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (AF SERIES) FOR MATERIALS, PATTERNS AND COLORS.

FLOORING
A. CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK.
C. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.
D. EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.
E. COORDINATE CONTROL JOINTS IN CONCRETE SLAB WITH STRUCTURAL DRAWINGS AND FINISH FLOORING INSTALLER.
F. REFER TO FLOOR PLANS, RESTROOM ENLARGED PLANS, PLUMBING DRAWINGS, ETC. FOR FLOOR DRAIN LOCATIONS.
G. AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM IN MORTAR BED. PROVIDE SCHLUTER DILEX-EDP OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.
H. AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM AT PORCELAIN TILE FLOORING.. PROVIDE SCHLUTER DILEX-BWS OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.

RUBBER TILE
A. ALL RUBBER TILE PATTERNS BASED ON 2'-0" INCREMENTS.

CARPET TILE
A. ALL CARPET TILE TO BE INSTALLED VERTICAL ASHLAR FOR ALL SPECIFIED TYPES/COLORS.

PORCELAIN TILE
A. GROUT AT ALL CERAMIC AND PORCELAIN TILE LOCATIONS TO BE GT-1.
B. PROVIDE ANODIZED ALUMINUM SPECIAL PROFILE TRANSITION SYSTEM BETWEEN PORCELAIN TILE FLOOR AND CARPET TILE. PROVIDE SCHLUTER RENO-TK OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.
C. ALL RESTROOMS TO RECEIVE HYBRID TILE FINISHING SYSTEM OVER PORCELAIN TILE. REFER TO LIST OF FINISHES AND SPECIFICATIONS.
D. ALL LARGE GROUP RESTROOMS, AS INDICATED ON AF11C, ARE TO HAVE PORCELAIN WALL TILE WAINSCOT.
E. PROVIDE METAL PROFILES AT ALL EXPOSED EDGES, OUTSIDE AND OUTSIDE CORNERS AND FLOOR TILE TO WALL TILE TRANSITIONS AND WALL TILE TO FLOORING TRANSITIONS. REFER TO AF501 FOR MORE DETAILS.

WALL BASE
A. RUBBER BASE (RB-) TO BE INSTALLED AT ALL RESILIENT TILE, CART, RFT, RSF, ECT, AND FS LOCATIONS UNLESS OTHERWISE INDICATED. ALL RB BASE TO BE COVED.
B. PROVIDE PREFORMED BASE TO MATCH 1"RADIUS AT ALL LOCATIONS WHERE BASE COVERS MASONRY BULLNOSE. REFER TO FINISH SCHEDULE FOR BASE MATERIAL TYPE. TYPICAL AT ALL LOCATIONS. AT RB LOCATIONS PROVIDE PREFORMED OUTSIDE CORNERS, AND USE MANUFACTURER'S RECOMMENDED ADHESIVE (CONTACT CEMENT) FOR PROPER ADHESION WITH NO GAPS.

PAINT & STAIN
A. PAINT ALL WALLS UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. PAINT ONCE MOCK-UP CLASSROOM TO RECEIVE ARCHITECT'S APPROVAL PRIOR TO ORDERING PAINT FOR THE ENTIRE BUILDING.

PAINT TYPE GENERAL NOTES

A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR PAINTING.
C. ALL GYPSUM BOARD WALLS SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.22 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED.
D. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE INDICATED.
E. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.
F. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #9.211 (EPOXY-SEMI-GLOSS), REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS **[C100, C101, C102, C103, C103B, C103C, C103E, C105, C106, C109, C112, C115, C200, C500, C540, C550, C560, C580, D102, D111, D105, D108, D540, D550, D560, D580]**
G. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
H. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.
I. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11.
J. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.

PAINT COLOR GENERAL NOTES

A. ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
B. PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
C. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
D. PAINT ALL PAINTED EXPOSED CEILINGS CEILINGS P-3 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
E. PAINT ALL PAINTED GYPSUM BOARD CEILINGS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. ALL INTERIOR HOLLOW METAL FRAMES AND DOOR FRAMES TO BE PAINTED P-2 UNLESS OTHERWISE NOTED.
G. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS. REFER TO FINISH PLANS FOR SPECIAL CONDITIONS AT C100 AND C101.

PIKE MSD/NATHANIEL JONES ELC EXPANSION

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KEY PLAN N

BID DOCUMENTS

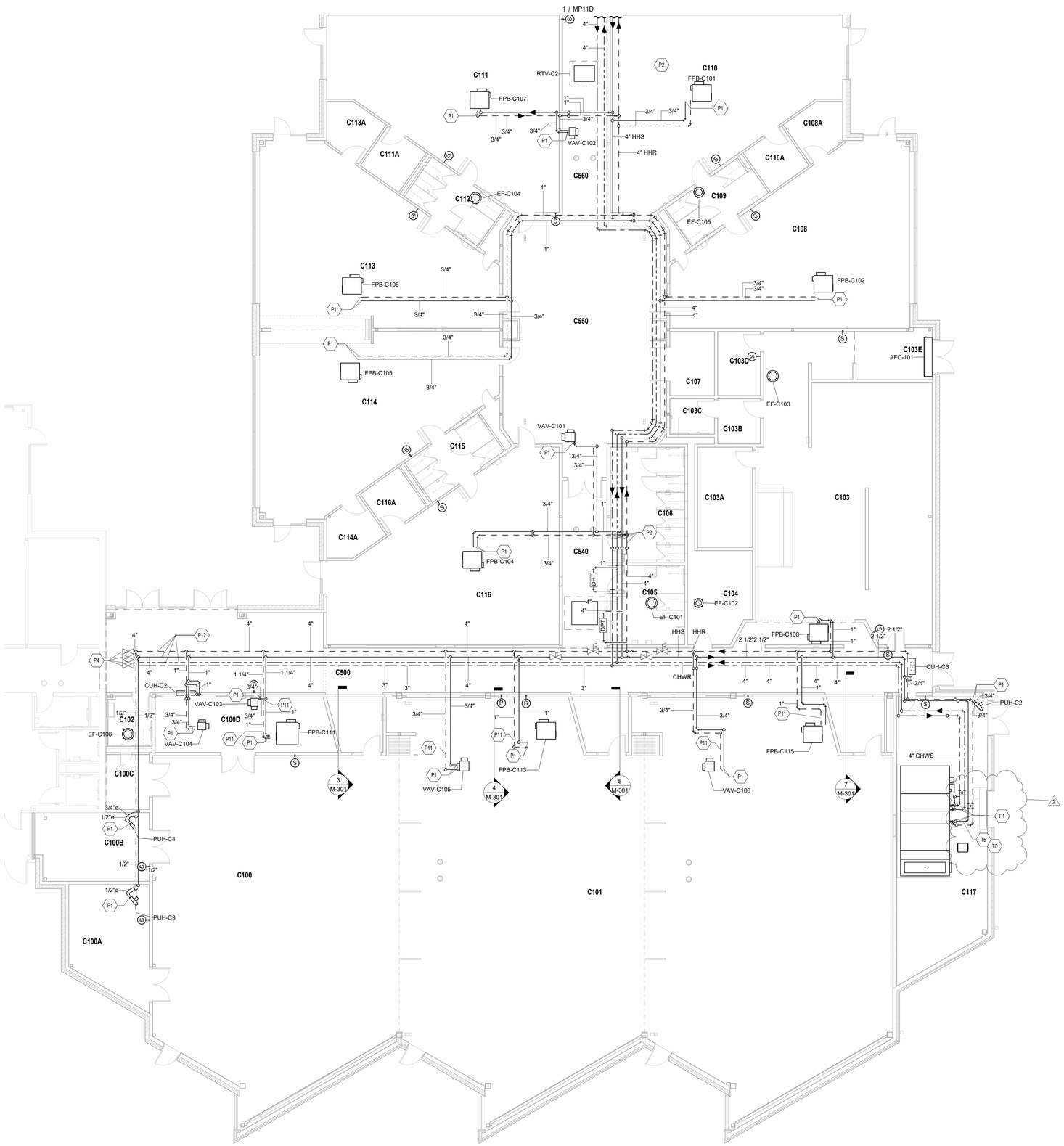
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: PW
DRAWN BY: MKH
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 2-26-2026

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM-03	03-30-2026

LIST OF FINISHES

AF601



FIRST FLOOR PIPING PLAN - UNIT C

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

ROOM LEGEND - FIRST FLOOR UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
C1	STAGE	Not Placed
C100	GYM / RECREATIONAL ROOM	2515 SF
C100A	STORAGE	274 SF
C100B	CHAIR STORAGE	248 SF
C100C	PLAY EQUIPMENT	77 SF
C100D	STORAGE	318 SF
C101	CAFETERIA	5761 SF
C102	FAMILY RR	70 SF
C103	KITCHEN	1515 SF
C103A	KITCHEN STORAGE	177 SF
C103B	LOCKERS	62 SF
C103C	RESTROOM	51 SF
C103D	OFFICE	88 SF
C103E	KITCHEN VESTIBULE	122 SF
C104	CUSTODIAL	220 SF
C105	MEN'S RESTROOM	173 SF
C106	WOMEN'S RESTROOM	258 SF
C107	ELECTRICAL	92 SF
C108	CLASSROOM 3	1090 SF
C108A	STORAGE	79 SF
C109	TOILET	136 SF
C110	CLASSROOM 4	1085 SF
C110A	STORAGE	73 SF
C111	CLASSROOM 5	1085 SF
C111A	STORAGE	73 SF
C112	TOILET	136 SF
C113	CLASSROOM 6	1089 SF
C113A	STORAGE	79 SF
C114	CLASSROOM 2	1089 SF
C114A	STORAGE	79 SF
C115	TOILET	135 SF
C116	CLASSROOM 1	1088 SF
C116A	STORAGE	73 SF
C117	MECHANICAL	771 SF
C118	IT CLOSET	123 SF
C119	MAINTENANCE	178 SF
C200	VESTIBULE	75 SF
C500	CORRIDOR	1838 SF
C540	CORRIDOR	272 SF
C550	CORRIDOR	1218 SF
C560	CORRIDOR	293 SF
C580	CORRIDOR	380 SF

HVAC PIPING PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

HVAC PIPING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	APPROXIMATE CONNECTION LOCATION. COORDINATE WITH CONTRACTOR ON-SITE FOR EQUIPMENT CONNECTION LOCATION.
P2	CHILLED/HOT WATER PIPING SHALL BE ROUTED THROUGH STEEL JOISTS IN AREA. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR AND ALL OTHER TRADES.
P4	CAP PIPING ABOVE ACCESSIBLE CEILING FOR FUTURE CONNECTION POINT.
P11	INSTALL CONTROL VALVE ABOVE ACCESSIBLE CEILING
P12	PAINT EXPOSED PIPING
T5	APPROXIMATE LOCATION OF 3-WAY MODULATING CHILLED WATER CONTROL VALVE.
T6	APPROXIMATE LOCATION OF 3-WAY MODULATING HEATING WATER CONTROL VALVE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

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350 E NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204

KEY PLAN

BID DOCUMENTS

MARK Z. HOSE REGISTERED No. PE 12005001 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW

DRAWN BY: CMS

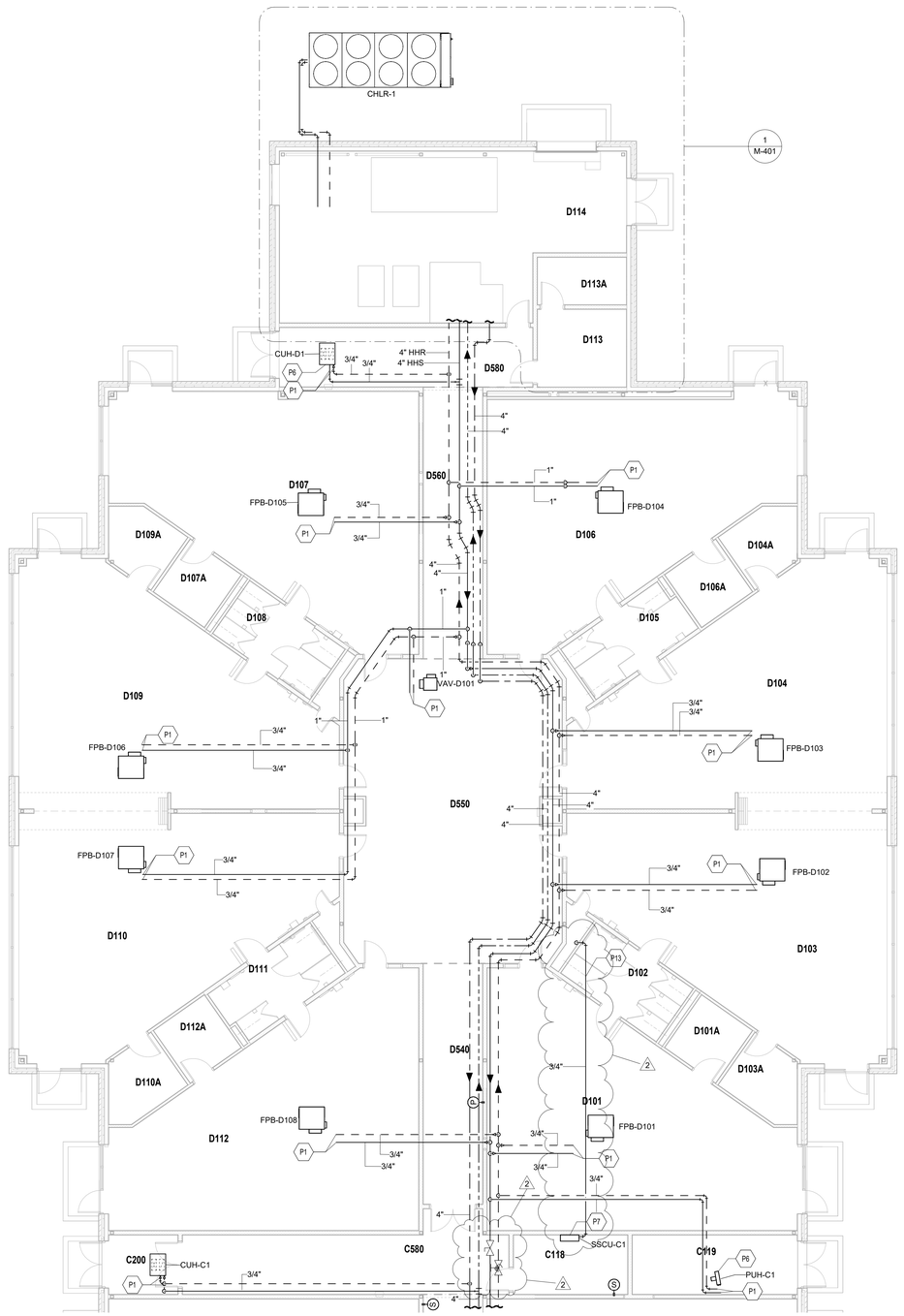
PROJECT NUMBER: 223216.00

PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

FIRST FLOOR PIPING PLAN - UNIT C

MP11C



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FIRST FLOOR PIPING PLAN - UNIT D

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

ROOM LEGEND - FIRST FLOOR UNIT D

ROOM NO.	ROOM NAME	AREA (SF)
D101	CLASSROOM 7	1076 SF
D101A	STORAGE	73 SF
D102	TOILET	135 SF
D103	CLASSROOM 8	1089 SF
D103A	STORAGE	83 SF
D104	CLASSROOM 9	1089 SF
D104A	STORAGE	79 SF
D105	TOILET	136 SF
D106	CLASSROOM 10	1045 SF
D106A	STORAGE	73 SF
D107	CLASSROOM 11	1083 SF
D107A	STORAGE	73 SF
D108	TOILET	135 SF
D109	CLASSROOM 12	1089 SF
D109A	STORAGE	79 SF
D110	CLASSROOM 13	1089 SF
D110A	STORAGE	83 SF
D111	TOILET	136 SF
D112	CLASSROOM 14	1076 SF
D112A	STORAGE	73 SF
D113	ELECTRICAL	126 SF
D113A	EMERGENCY ELECTRICAL	77 SF
D114	MECHANICAL	961 SF
D540	CORRIDOR	259 SF
D550	CORRIDOR	1170 SF
D560	CORRIDOR	293 SF
D580	CORRIDOR	273 SF

HVAC PIPING PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

HVAC PIPING PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	APPROXIMATE CONNECTION LOCATION. COORDINATE WITH CONTRACTOR ON-SITE FOR EQUIPMENT CONNECTION LOCATION.
P6	SUPPORT UNIT HEATER FROM STRUCTURE ABOVE OR ADJACENT WALL WITH SUPPLEMENTAL STEEL AND THREADED ROD WITH VIBRATION ISOLATORS AS REQUIRED.
P7	ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO TECHNOLOGY ROOM UNIT. REFRIGERANT PIPING AND ACCESSORIES TO BE SIZED PER UNIT MANUFACTURERS REQUIREMENTS. REFRIGERANT PIPING SHALL BE INSULATED AND INSULATION SHALL BE COVERED WITH PVC JACKET.
P13	COPPER CONDENSATE PIPE TO BE ROUTED THROUGH THE WALL AND TURNED DOWN. END OF PIPE TO BE CUT AT 45 DEGREE ANGLE. SEAL WALL PENETRATION WATERTIGHT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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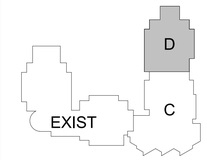


KEY PLAN

N

BID DOCUMENTS

MARK Z. HOPE REGISTERED No. PE 12200301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW

DRAWN BY: CMS

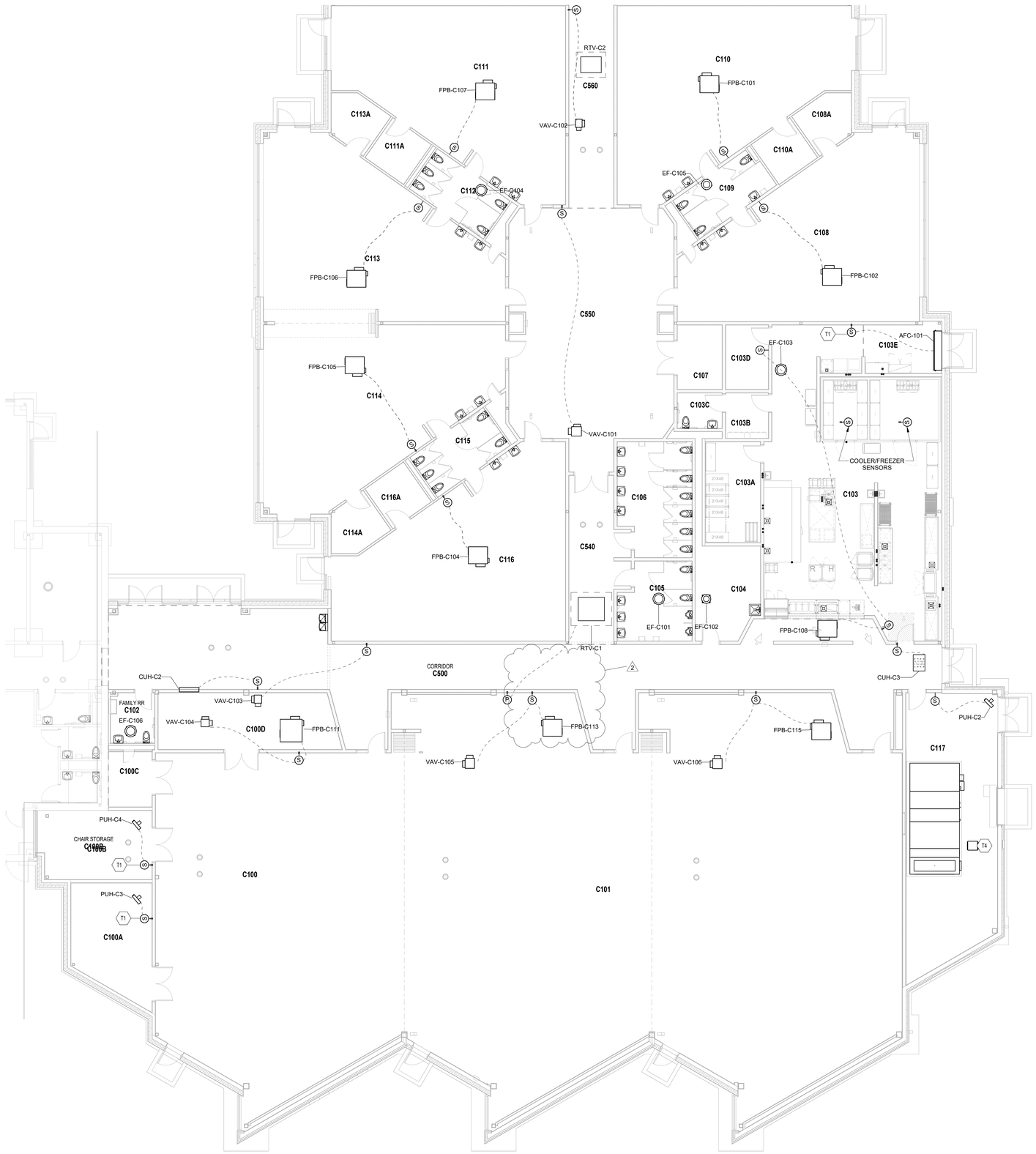
PROJECT NUMBER: 223216.00

PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

FIRST FLOOR PIPING PLAN - UNIT D

MP11D



FIRST FLOOR CONTROLS PLAN - UNIT C

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

ROOM LEGEND - FIRST FLOOR UNIT C

ROOM NO.	ROOM NAME	AREA (SF)
C1	STAGE	Not Placed
C100	GYM / RECREATIONAL ROOM	2515 SF
C100A	STORAGE	274 SF
C100B	CHAIR STORAGE	248 SF
C100C	PLAY EQUIPMENT	77 SF
C100D	STORAGE	318 SF
C101	CAFETERIA	5761 SF
C102	FAMILY RR	70 SF
C103	KITCHEN	1515 SF
C103A	KITCHEN STORAGE	177 SF
C103B	LOCKERS	62 SF
C103C	RESTROOM	51 SF
C103D	OFFICE	88 SF
C103E	KITCHEN VESTIBULE	122 SF
C104	CUSTODIAL	220 SF
C105	MEN'S RESTROOM	173 SF
C106	WOMEN'S RESTROOM	258 SF
C107	ELECTRICAL	92 SF
C108	CLASSROOM 3	1090 SF
C108A	STORAGE	79 SF
C109	TOILET	136 SF
C110	CLASSROOM 4	1085 SF
C110A	STORAGE	73 SF
C111	CLASSROOM 5	1085 SF
C111A	STORAGE	73 SF
C112	TOILET	136 SF
C113	CLASSROOM 6	1089 SF
C113A	STORAGE	79 SF
C114	CLASSROOM 2	1089 SF
C114A	STORAGE	79 SF
C115	TOILET	135 SF
C116	CLASSROOM 1	1088 SF
C116A	STORAGE	73 SF
C117	MECHANICAL	771 SF
C118	IT CLOSET	123 SF
C119	MAINTENANCE	178 SF
C200	VESTIBULE	75 SF
C500	CORRIDOR	1838 SF
C540	CORRIDOR	272 SF
C550	CORRIDOR	1218 SF
C560	CORRIDOR	293 SF
C580	CORRIDOR	380 SF

TEMPERATURE CONTROL PLAN GENERAL NOTES

A. REFER TO SECTION 23 05 00 GENERAL REQUIREMENTS AND CONDITIONS FOR THE TRANSPORT, STORAGE, DEMOLITION, & INSTALLATION AS DESCRIBED HEREIN.

B. **BUILDING HEATING & COOLING PLANT CONTROLS:** TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ITEMS SUCH AS, BUT NOT BE LIMITED TO, CONTROL EQUIPMENT, VALVES, ACTUATORS, SENSORS, DEVICES, COMPONENTS, & COORDINATION FOR NEW COMPLETE & FUNCTIONAL BUILDING TEMPERATURE CONTROL SYSTEM.

C. **TEMP CONTROL (WALL MTD) SENSORS/THERMOSTATS:** ANTICIPATED LOCATIONS FOR TEMPERATURE CONTROL SYSTEMS AMBIENT SENSORS & THERMOSTATIC CONTROLLERS ARE SHOWN. REFER TO SECTIONS 23 09 00 & 23 09 93 FOR DEVICE REQUIREMENT(S) RELEVANT TO EQUIPMENT & ZONE INSTALLATIONS. CONTRACTOR IS RESPONSIBLE TO IDENTIFY MOST APPROPRIATE DEVICE LOCATION. CONTACT PROJECT ENGINEER IF CLARIFICATION BECOMES NECESSARY.

D. CONTRACTOR SHALL PROVIDE ALL WIRING, DEVICES AND COMPONENTS.

TEMPERATURE CONTROL PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T1	TEMPERATURE SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR TO MONITOR SPACE TEMPERATURE.
T4	EXHAUST AIR CONTROL DAMPER SHALL BE FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED BY TEMPERATURE CONTROL CONTRACTOR.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ARCHITECT

FANNING HOWEY

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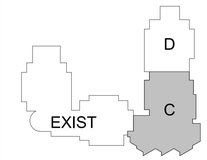
350 E NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204



KEY PLAN

N

BID DOCUMENTS

PROJECT MANAGER: PW

DRAWN BY: CMS

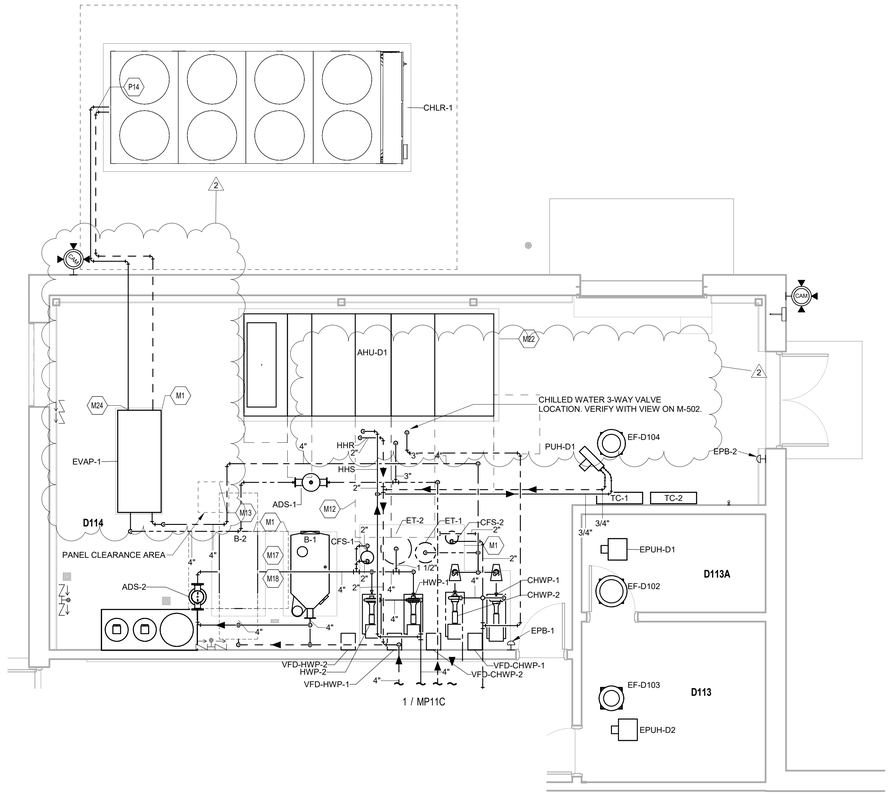
PROJECT NUMBER: 223216.00

PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

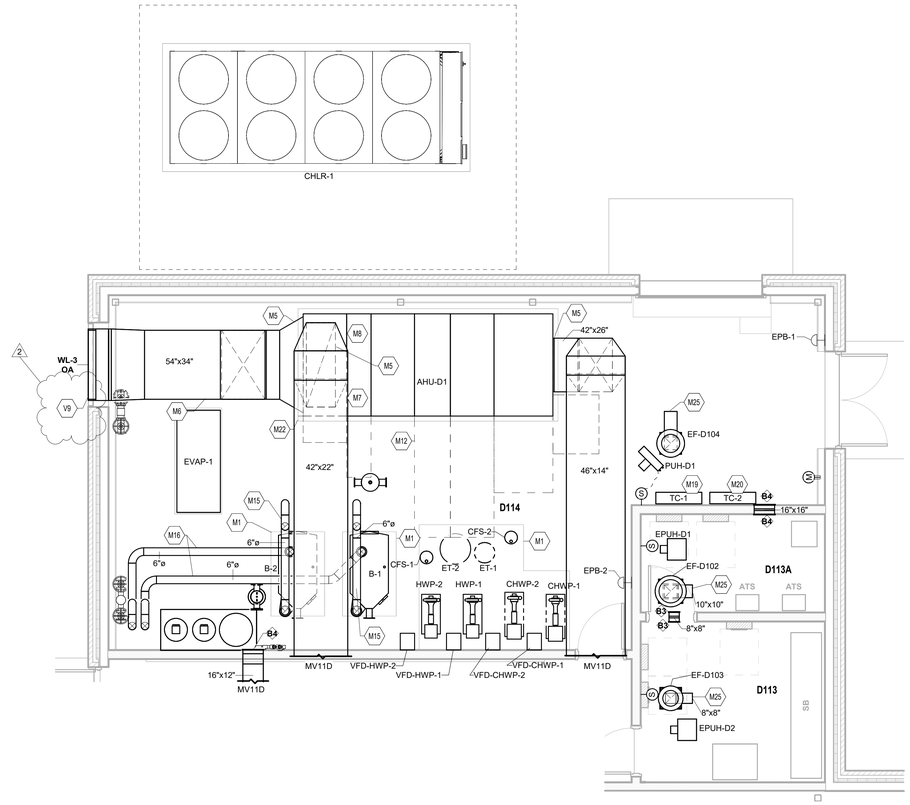
FIRST FLOOR CONTROLS PLAN - UNIT C

MC11C



1 ENLARGED EAST MECHANICAL ROOM PIPING PLAN

SCALE: 1/4" = 1'-0"
NOTE: SOME ELEMENTS HIDDEN FOR CLARITY



2 ENLARGED EAST MECHANICAL ROOM A VENTILATION PLAN

SCALE: 1/4" = 1'-0"
NOTE: SOME ELEMENTS HIDDEN FOR CLARITY

MECHANICAL ROOM PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44", FROM BOTTOM OF DEVICE, ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
M. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.
N. UNLESS OTHERWISE INDICATED, ALL ABOVE CEILING SPACE(S) SHALL BE CONSIDERED PART OF THE RETURN PLENUM, THEREFORE ALL PIPE, DUCT, CONTROL DEVICES, WIRING, AND EQUIPMENT SHALL BE RATED AND ACCEPTABLE FOR INSTALLATION IN THE PLENUM SPACE.

MECHANICAL ROOM PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3-1/2" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE OF HOUSEKEEPING PAD WITH EQUIPMENT TO BE PROVIDED.
M5	TRANSITION DUCTWORK AS REQUIRED TO MAKE FINAL CONNECTION TO AIR HANDLING UNIT.
M6	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
M7	OUTSIDE AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
M8	RETURN AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
M12	CLEARANCE REQUIRED FOR AIR HANDLING UNIT COIL AND HEAT WHEEL PULLS.
M13	FLOW SWITCH PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. WIRING AND TERMINATIONS BY TEMPERATURE CONTROL CONTRACTOR.
M15	AL-29-4C FLUE PIPE SYSTEM FROM THE BOILER CONNECTION ROUTED UP AND TERMINATED THOUGH THE ROOF. FLUE PIPE SIZE AND INSTALLATION PER MANUFACTURERS REQUIREMENTS.
M16	SINGLE WALL STAINLESS STEEL INTAKE PIPE FROM THE BOILER CONNECTION TERMINATED THOUGH THE ROOF. INTAKE PIPE SIZE AND INSTALLATION PER MANUFACTURERS REQUIREMENTS.
M17	PRESSURE RELIEF VALVE. REFER TO BOILER MANUFACTURER FOR RECOMMENDED LOCATION. PIPE FULL SIZE TO FLOOR DRAIN. SUPPORT PIPING INDEPENDENTLY OF VALVE TO PREVENT STRESS AND TO ALLOW PROPER OPERATION.
M18	CONDENSATE DRAIN WITH TRAP PIPED FROM BOILER TO FLOOR DRAIN FULL SIZE. EACH BOILER TO BE PROVIDED WITH INDEPENDENT ACID NEUTRALIZATION BASIN. REFER TO DETAIL.
M19	APPROXIMATE LOCATION OF AIR HANDLING UNIT CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
M20	APPROXIMATE LOCATION OF BOILER AND CHILLER CONTROL PANELS. COORDINATE EXACT LOCATION WITH ALL TRADES.
M22	INSTALL EQUIPMENT ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
M24	MECHANICAL EQUIPMENT TO BE INSULATED PER 23 07 00.
M25	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
P14	ALL REFRIGERANT PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE WRAPPED WITH INSULATION AND THEN COVERED WITH A PVC JACKET PER THE PROJECT MANUAL. PIPING IS SIZED PER MANUFACTURER RECOMMENDATIONS. PROVIDE PIPE SUPPORTS PER MANUFACTURERS RECOMMENDATIONS.
V9	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 6" BEYOND DUCTWORK.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

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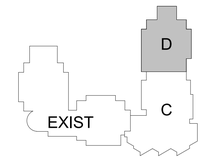


KEY PLAN

N

BID DOCUMENTS

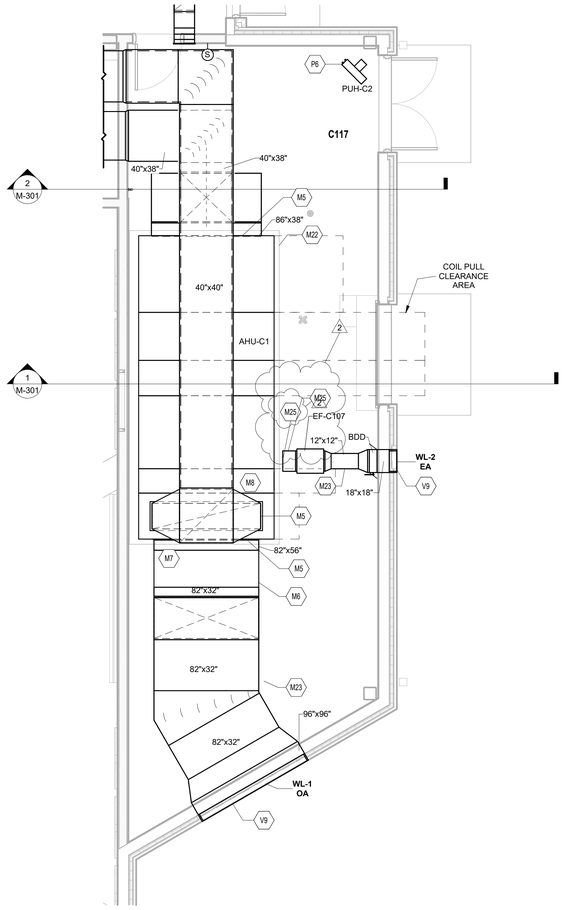
MARK Z. HOPF
REGISTERED
No.
PE 12005021
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: CMS
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

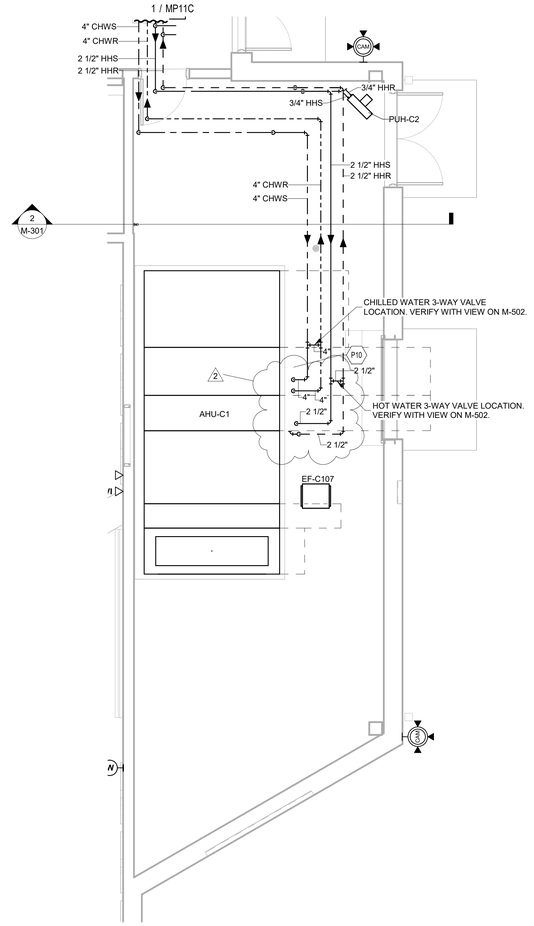
MECHANICAL ROOM

M-401



1 ENLARGED WEST MECHANICAL ROOM B VENTILATION PLAN

SCALE: 1/4" = 1'-0"



2 ENLARGED WEST MECHANICAL ROOM B PIPING PLAN

SCALE: 1/4" = 1'-0"

MECHANICAL ROOM PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44", FROM BOTTOM OF DEVICE, ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
M. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.
N. UNLESS OTHERWISE INDICATED, ALL ABOVE CEILING SPACE(S) SHALL BE CONSIDERED PART OF THE RETURN PLENUM, THEREFORE ALL PIPE, DUCT, CONTROL DEVICES, WIRING, AND EQUIPMENT SHALL BE RATED AND ACCEPTABLE FOR INSTALLATION IN THE PLENUM SPACE.

MECHANICAL ROOM PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M5	TRANSITION DUCTWORK AS REQUIRED TO MAKE FINAL CONNECTION TO AIR HANDLING UNIT.
M6	MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK TO ACCESS THE AIRFLOW MEASURING STATION. INSTALL GASKETING AROUND THE DOOR FOR AIR-TIGHT INSTALLATION. PROVIDE CONTINUOUS HINGE. REINFORCE DUCTWORK AS REQUIRED.
M7	OUTSIDE AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
M8	RETURN AIR CONTROL DAMPERS FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
M22	INSTALL EQUIPMENT ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
M23	WRAP DUCTWORK WITH INSULATION FROM AIR HANDLING UNIT TO WALL LOUVER.
M25	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
P6	SUPPORT UNIT HEATER FROM STRUCTURE ABOVE OR ADJACENT WALL WITH SUPPLEMENTAL STEEL AND THREADED ROD WITH VIBRATION ISOLATORS AS REQUIRED.
P10	CONDENSATE PIPING TURNED DOWN TO DRAIN. END OF PIPE TO BE CUT AT 45 DEGREE ANGLE.
V9	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 6" BEYOND DUCTWORK.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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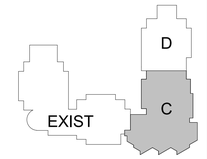


KEY PLAN

N

BID DOCUMENTS

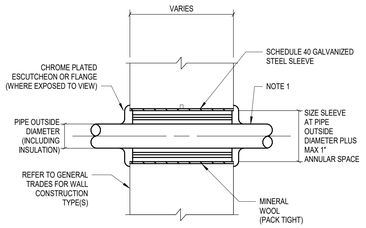
MARK Z. HOSE REGISTERED No. PE 12005101 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: CMS
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

MECHANICAL ROOM

M-402

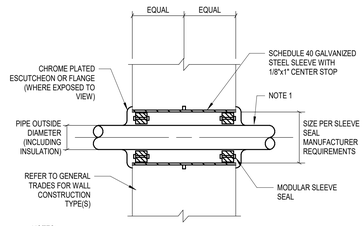


NOTES:

1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS.

PIPE PENETRATION INTERIOR WALL

SCALE: 12" = 1'-0"



NOTES:

1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS. PROVIDE RIGID THERMAL HANGAR SHIELD INSERT AT MODULAR SLEEVE SEALS.

PIPE PENETRATION EXTERIOR WALL

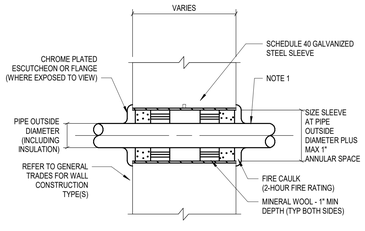
SCALE: 12" = 1'-0"

NOTES:

1. INSTALL ALL PIPING TO CLEAR FILTER ACCESS, DRIVE BELTS, AND ALL ACCESS POINTS.
2. COORDINATE NUMBER OF COILS WITH UNIT MANUFACTURER.

AHU CHW (1) COIL 3-WAY PIPING DIAGRAM (AHU-D1)

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

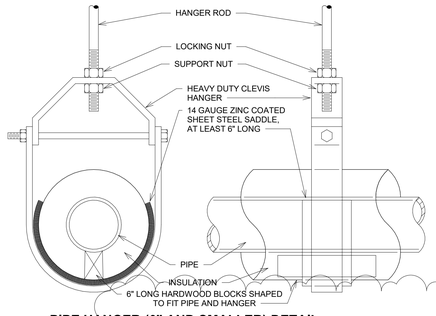


NOTES:

1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS.

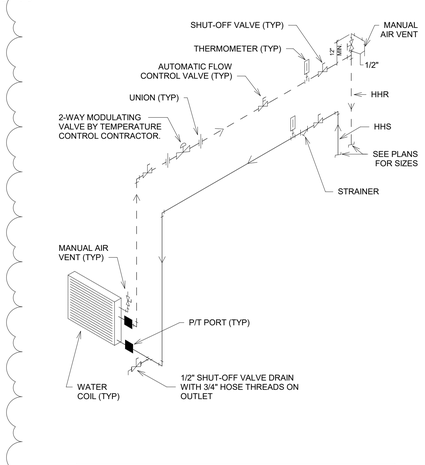
PIPE PENETRATION FIRE WALL

SCALE: 12" = 1'-0"



PIPE HANGER (6" AND SMALLER) DETAIL

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

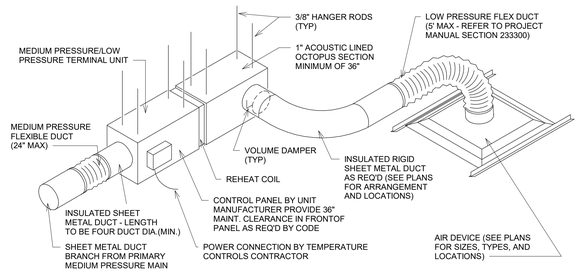


NOTES:

1. INSTALL ALL PIPING TO CLEAR FILTER ACCESS, DRIVE BELTS, AND ALL ACCESS POINTS.
2. COORDINATE NUMBER OF COILS WITH UNIT MANUFACTURER.

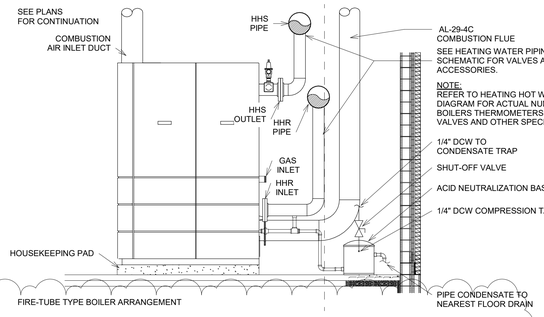
AHU HW (1) COIL PIPING DIAGRAM (AHU-D1)

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



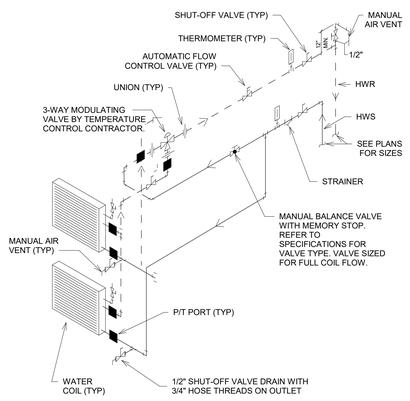
TERMINAL REHEAT UNIT INSTALLATION DETAIL

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



HEATING HOT WATER CONDENSING BOILER INSTALLATION DETAIL (ELEVATION)

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

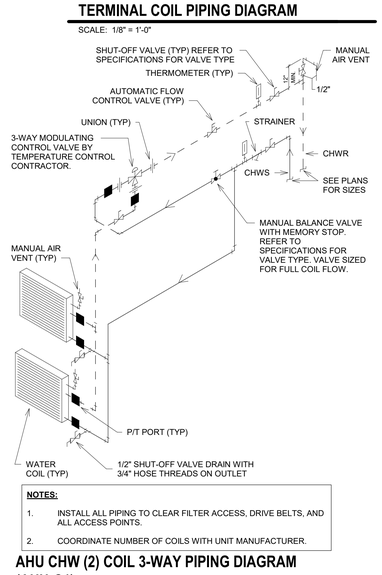


NOTES:

1. INSTALL ALL PIPING TO CLEAR FILTER ACCESS, DRIVE BELTS, AND ALL ACCESS POINTS.
2. COORDINATE NUMBER OF COILS WITH UNIT MANUFACTURER.

AHU HHW (2) COIL 3-WAY PIPING DIAGRAM (AHU-C1)

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

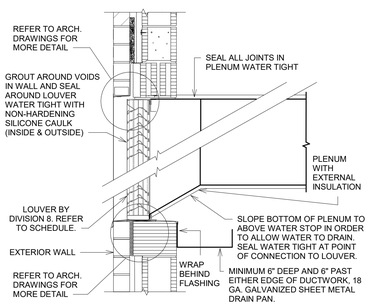


NOTES:

1. INSTALL ALL PIPING TO CLEAR FILTER ACCESS, DRIVE BELTS, AND ALL ACCESS POINTS.
2. COORDINATE NUMBER OF COILS WITH UNIT MANUFACTURER.

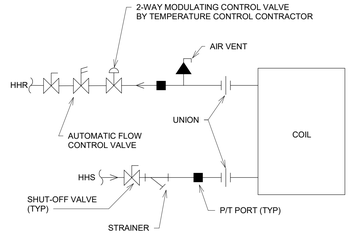
AHU CHW (2) COIL 3-WAY PIPING DIAGRAM (AHU-C1)

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



WALL LOUVER DUCT CONNECTION DETAIL

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



TERMINAL COIL PIPING DIAGRAM

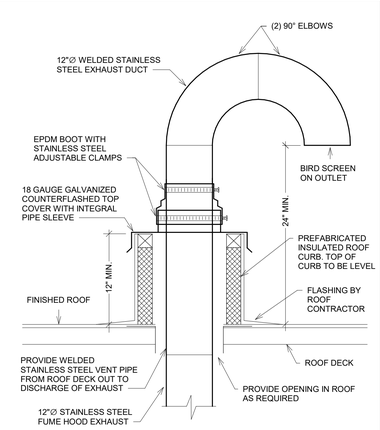
SCALE: 1/8" = 1'-0"

NOTES:

1. INSTALL ALL PIPING TO CLEAR FILTER ACCESS, DRIVE BELTS, AND ALL ACCESS POINTS.
2. COORDINATE NUMBER OF COILS WITH UNIT MANUFACTURER.

PROP. UNIT HEATER PIPING DETAIL

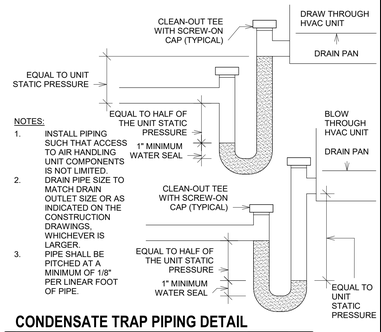
SCALE: 1/8" = 1'-0"



(NOTE: ROOF IS SLOPED. CURB TO BE SLOPED TO ALLOW FOR VERTICAL DISCHARGE)

GOOSENECK EXHAUST VENT DETAIL

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

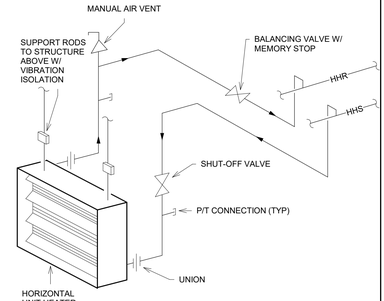


NOTES:

1. INSTALL PIPING SUCH THAT ACCESS TO AIR HANDLING UNIT COMPONENTS IS NOT LIMITED.
2. DRAIN PIPE SIZE TO MATCH DRAIN OUTLET SIZE OR AS INDICATED ON THE CONSTRUCTION DRAWINGS, WHICHEVER IS LARGER.
3. PIPE SHALL BE PITCHED AT A MINIMUM OF 1/8" PER LINEAR FOOT OF PIPE.

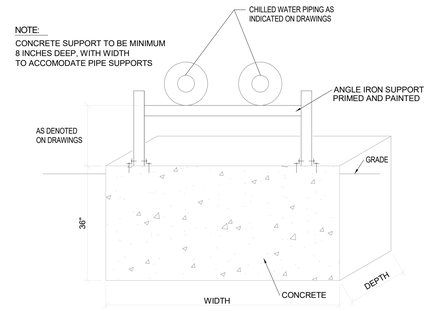
CONDENSATE TRAP PIPING DETAIL

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



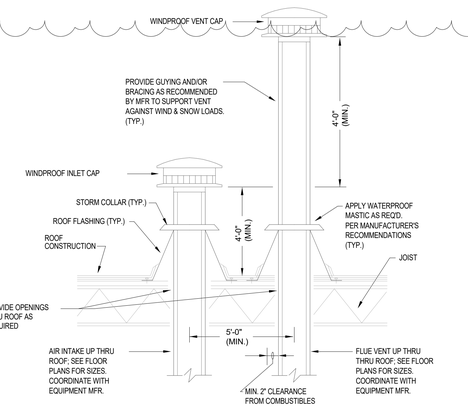
PROP. UNIT HEATER PIPING DETAIL

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



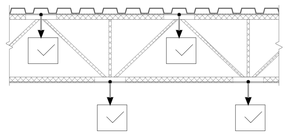
OUTDOOR PIPING SUPPORT DETAIL

NO SCALE



BOILER FLUE INSTALLATION

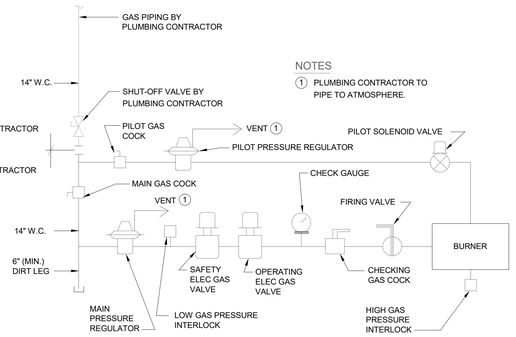
NO SCALE



1. ALL LOADS IN EXCESS OF 100 LBS MAY ONLY BE HUNG FROM THE STEEL JOISTS AT THE LOCATIONS INDICATED WITH A CHECK MARK.
2. LOADS IN EXCESS OF 100 LBS ARE NOT TO BE HUNG FROM THE CROSS-HATCHED REGIONS UNLESS ADDITIONAL WEB REINFORCING MEMBERS ARE INSTALLED PER THE STRUCTURAL DRAWINGS.
3. THIS SECTION APPLIES TO LOADS HUNG FROM BOTH NEW JOISTS AND FROM EXISTING JOISTS.
4. SPACE HANGERS OUT SO THAT NOT ALL HANGERS ARE ATTACHED TO THE SAME JOIST.

ACCEPTABLE LOCATION TO HANG LOADS FROM STEEL JOISTS

NO SCALE



BOILER GAS TRAIN PIPING DIAGRAM

(FM APPROVED) NO SCALE

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

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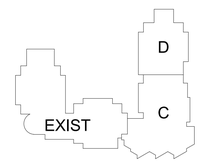

KEY PLAN

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BID DOCUMENTS

MARK Z. HOSE REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: CMS
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

MECHANICAL DETAILS

M-502

23.73.13 - AIR HANDLING UNIT SCHEDULE

IDENTITY			SUPPLY FAN	SUPPLY FAN	SUPPLY FAN							ELECTRICAL				COOLING										CHILLED WATER COIL				HEATING					HOT WATER COIL				PREFILTER	FILTER	UNIT SIZE (IN)			OPER. WT	
								MOTOR																																					
MARK	MFG	AREA SERVED	EQUIPMENT NOMINAL (CFM)	MIN OSA (CFM)	SUPPLY FAN TOTAL SP (IN-WG)	EXTERNAL SP (IN-WG)	FAN RPM	DRIVE	BHP	HP	VFD	VOLT.	PH	FLA	MCA	TOT. CAP. (BTU/H)	SENS. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	ROWS	FPI	APD (IN-WG)	FACE VEL. (FPM)	EWT (°F)	LWT (°F)	WPD (FT-WG)	FLOW (GPM)	CAP. (BTU/H)	EAT DB (°F)	LAT DB (°F)	ROWS	APD (IN-WG)	FACE VEL. (FPM)	EWT (°F)	LWT (°F)	WPD (FT-WG)	FLOW (GPM)	MERV	MERV	L	W	H	(LB)	NOTES
AHU-C1	TRANE	C-BLOCK/CAFETERIA	22310	10040	3.50	6.62	21970	DIRECT	35.3	20x2	Yes	460 V	3	55.30	62 A	1025390	684260	82	68	54	54	6	9	0.62	490	42	57	15.76	134.0	1096040	40	85	2	0.18	490	140	100	2.83	54.9	8	13	237	106	89	8736	SEE NOTES 1-14
AHU-D1	TRANE	D-BLOCK	9900	4455	5.75	3.00	1916	DIRECT	13.6	15	Yes	460 V	3	22.30	28 A	467750	314560	82	68	53	53	6	10	0.67	484	42	57	15.22	62.2	486370	40	85	2	0.17	476	140	100	5.88	24.4	8	13	191	80	53	3646	SEE NOTES 1-15

NOTES:
1. REFER TO PROJECT MANUAL SECTION 237313 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO PLANS & SCHEMATIC SHEETS FOR UNIT LAYOUT DETAILS.
3. PROVIDE A FACTORY MOUNTED CONVENIENCE OUTLET ON THE EXTERIOR OF EACH AIR HANDLER. PROVIDE INTERNAL LIGHTS AT EACH ACCESS DOOR OPERATED BY A SINGLE LIGHT SWITCH MOUNTED ON THE EXTERIOR OF EACH AIR HANDLER. THE CONVENIENCE OUTLET AND LIGHTS ARE TO BE ON A SEPARATE CIRCUIT THAN THE AIR HANDLER POWER SUPPLY. IF THE MENUFACTURER IS UNABLE TO PROVIDE THE CONVENIENCE OUTLET AND/OR LIGHTS, IT IS THE MECHANICAL CONTRACTOR RESPONSIBILITY TO COORDINATE THE ELECTRICAL CONTRACTOR FOR INSTALLATION OF THE CONVENIENCE OUTLET AND/OR LIGHTS.
4. MAXIMUM COIL FACE VELOCITY SHALL BE 500 FPM.
5. MAXIMUM PRE FILTER AND PRIMARY FILTER FACE VELOCITY SHALL BE 500 FPM.
6. INCLUDE FACTORY MOUNTED RETURN AND OUTSIDE AIR DAMPERS.
7. HEATING WATER COIL SHALL BE IN A PREHEAT POSITION.
8. FACTORY MOUNTED VARIABLE FREQUENCY CONTROLLER (VFC) SHALL BE PROVIDED ON SUPPLY FAN.
9. COOLING COIL SHALL BE SELECTED WITH 100% WATER.
10. PROVIDE FACTORY MOUNTED DISCONNECT
11. SINGLE POINT ELECTRICAL CONNECTION TO UNITS.
12. SUMMER DESIGN CONDITIONS: INDOOR 74°db, 50% RH, OUTDOOR 91.3°db/75°wb
13. WINTER DESIGN CONDITIONS: INDOOR 70°db, OUTDOOR 2.6°db
14. UNIT SHALL INCLUDE FACTORY MOUNTED BELMOUTH FITTINGS.
15. PROVIDE WITH SCCR RATING >7KAIC@480V.

23.37.13 - DIFFUSERS, REGISTERS, AND GRILLES SCHEDULE

IDENTITY DATA								
MARK	DESCRIPTION	MANUFACTURER	MODEL	NECK SIZE	FACE SIZE (W x L)	MAX CORE/ NECK VELO.	AIR FLOW MAX	MAX N.C.	FRAME/ MOUNTING
A1	STEEL PLAQUE FACE DIFFUSER	TITUS	OMNI	4"ø	12" x 12"	600 FPM	50	20	REFER TO REFLECTED CEILING PLAN
A2	STEEL PLAQUE FACE DIFFUSER	TITUS	OMNI	6"ø	24" x 24"	600 FPM	125	20	REFER TO REFLECTED CEILING PLAN
A3	STEEL PLAQUE FACE DIFFUSER	TITUS	OMNI	8"ø	24" x 24"	700 FPM	250	20	REFER TO REFLECTED CEILING PLAN
A4	STEEL PLAQUE FACE DIFFUSER	TITUS	OMNI	10"ø	24" x 24"	750 FPM	400	20	REFER TO REFLECTED CEILING PLAN
B1	ALUMINUM LOUVERED RETURN	TITUS	350FL	32"x32"	32" x 32"	400 FPM	2,500	20	REFER TO REFLECTED CEILING PLAN
B2	ALUMINUM LOUVERED RETURN	TITUS	350FL	22"x22"	22" x 22"	400 FPM	1,500	20	REFER TO REFLECTED CEILING PLAN
B3	ALUMINUM LOUVERED RETURN	TITUS	350FL	8"x8"	8" x 8"	500 FPM	185	20	SURFACE
B4	ALUMINUM LOUVERED RETURN	TITUS	350FL	16"x16"	16" x 16"	500 FPM	800	20	SURFACE
B5	ALUMINUM LOUVERED RETURN	TITUS	350FL	18"x12"	18" x 12"	500 FPM	675	20	SURFACE
B6	ALUMINUM LOUVERED RETURN	TITUS	350FL	14"x14"	14" x 14"	500 FPM	610	20	SURFACE
C1	ALUMINUM EGGCRATE	TITUS	50F	8"x8"	8" x 8"	400 FPM	150	20	REFER TO REFLECTED CEILING PLAN
C2	ALUMINUM EGGCRATE	TITUS	50F	10"x10"	10" x 10"	400 FPM	225	20	REFER TO REFLECTED CEILING PLAN
C3	ALUMINUM EGGCRATE	TITUS	50F	12"x12"	12" x 12"	400 FPM	350	20	REFER TO REFLECTED CEILING PLAN
C5	ALUMINUM EGGCRATE	TITUS	50F	16"x16"	16" x 16"	400 FPM	650	20	REFER TO REFLECTED CEILING PLAN
C6	ALUMINUM EGGCRATE	TITUS	50F	24"x24"	24" x 24"	400 FPM	1,500	20	REFER TO REFLECTED CEILING PLAN
D1	STEEL DOUBLE DEFLECTION SUPPLY GRILLE	TITUS	300RS	18"x14"	18" x 14"	500 FPM	795	20	REFER TO REFLECTED CEILING PLAN
E1	HIGH CAPACITY DRUM LOUVER	TITUS	S-DL	18"x6"	18" x 6"	500 FPM	333	20	DUCT
F1	Architectural Linear Diffuser	Titus HVAC	FL-10	-	3"x48"		100	20	HIGH-THROW W/INSULATED PLENUM - 1" SLOT WIDTH, TOTAL 1 SLOT, SUSPENDED
F2	Architectural Linear Diffuser	Titus HVAC	FL-20	-	9"x48"		290	21	HIGH-THROW W/INSULATED PLENUM - 2" SLOT WIDTH, TOTAL 2 SLOTS, SURFACE MOUNTED
F3	Architectural Linear Diffuser	Titus HVAC	FL-30	-	13"x48"		510	20	HIGH-THROW W/INSULATED PLENUM - 3" SLOT WIDTH, TOTAL 2 SLOTS, SURFACE MOUNTED

23.34.23 - HVAC POWER VENTILATOR SCHEDULE

IDENTITY DATA					LOCATION			DESCRIPTION	PERFORMANCE DATA				ELECTRICAL DATA						
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	TYPE	LOCATION	AREA SERVED	SYSTEM SERVED	DRIVE	CFM	RPM	ESP (IN-WG)	MOTOR HP	ELECTRICAL	VOLTS	PH	FREQ	DISCONNECT	CONTROLS	NOTES
EF-C101	Greenheck	G-100-VG	54	CENTRIFUGAL DOWNBLAST	ROOF C	C-BLOCK/CAFETERIA	RESTROOM EXHAUST	DIRECT	675	1141	0.39	0.25	115 V-1-60	115 V	1	60	YES	A	1,2,3,4,5
EF-C102	Greenheck	G-070-VG	36	CENTRIFUGAL DOWNBLAST	ROOF C	C-BLOCK/CAFETERIA	CUSTODIAL EXHAUST	DIRECT	220	1557	0.33	0.06	115 V-1-60	115 V	1	60	YES	C	1,2,3,4,5
EF-C103	Greenheck	G-099-VG	54	CENTRIFUGAL DOWNBLAST	ROOF C	C-BLOCK/CAFETERIA	ELECTRICAL EXHAUST	DIRECT	490	626	0.23	0.25	115 V-1-60	115 V	1	60	YES	B	1,2,3,4,5
EF-C104	Greenheck	G-099-VG	54	CENTRIFUGAL DOWNBLAST	ROOF C	C-BLOCK/CAFETERIA	RESTROOM EXHAUST	DIRECT	750	1442	0.58	0.25	115 V-1-60	115 V	1	60	YES	A	1,2,3,4,5
EF-C105	Greenheck	G-080-VG	40	CENTRIFUGAL DOWNBLAST	ROOF C	C-BLOCK/CAFETERIA	RESTROOM EXHAUST	DIRECT	225	1266	0.29	0.1	115 V-1-60	115 V	1	60	YES	A	1,2,3,4,5
EF-C106	Greenheck	G-099-VG	54	CENTRIFUGAL DOWNBLAST	ROOF C	C-BLOCK/CAFETERIA	RESTROOM EXHAUST	DIRECT	545	1072	0.33	0.25	115 V-1-60	115 V	1	60	YES	A	1,2,3,4,5
EF-C107	Greenheck	SQ-120-VG	61	INLINE	C117	C-BLOCK/CAFETERIA	MECHANICAL EXHAUST	DIRECT	550	776	0.25	0.5	115 V-1-60	115 V	1	60	YES	B	1,2,3,5
EF-D101	Greenheck	G-140-VG	68	CENTRIFUGAL DOWNBLAST	ROOF D	D-BLOCK	RESTROOM EXHAUST	DIRECT	1,200	1073	0.63	0.5	120 V-1-60	120 V	1	60	YES	A	1,2,3,4,5
EF-D102	Greenheck	G-099-VG	54	CENTRIFUGAL DOWNBLAST	ROOF D	D-BLOCK	ELECTRICAL EXHAUST	DIRECT	490	916	0.22	0.25	115 V-1-60	115 V	1	60	YES	B	1,2,3,4,5
EF-D103	Greenheck	G-070-VG	36	CENTRIFUGAL DOWNBLAST	ROOF D	D-BLOCK	ELECTRICAL EXHAUST	DIRECT	240	1557	0.3	0.06	115 V-1-60	115 V	1	60	YES	B	1,2,3,4,5
EF-D104	Greenheck	G-090-E	54	CENTRIFUGAL DOWNBLAST	ROOF D	D-BLOCK	MECHANICAL EXHAUST	DIRECT	450	1315	0.29	0.1	115 V-1-60	115 V	1	60	YES	B	1,2,3,4,5

NOTES:
1. INCLUDE FACTORY MOUNTED DISCONNECT SWITCH.
2. INCLUDE BACKDRAFT DAMPER.
3. REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS.
4. MOUNT ON 12" HIGH ROOF CURB, UNLESS OTHERWISE NOTED.
5. INCLUDE FACTORY MOUNTED SPEED CONTROLLER.

NOTES:
- A AUTOMATIC OCCUPIED OPERATION BY LOCAL TEMPERATURE CONTROL ZONE
- B AUTOMATIC OPERATION BY REVERSE-ACTING THERMOSTAT
- C 24 HOUR CONTINUOUS OPERATION.

23.36.00 - TERMINAL UNIT (VARIABLE VOLUME) SCHEDULE

IDENTITY DATA			AIRFLOW				HEATING								UNIT		
MARK	MODEL	INLET SIZE	COOLING MAX	MIN FLOW	HEATING MAX	INLET APD (IN-WG)	CAP. (BTU/H)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	COIL APD (IN-WG)	WPD (FT-WG)	FLOW (GPM)	ROWS	CONTROLS	WT (LB)	NOTES
VAV-C101	TSS	14"	900	450	900	0.68	41.38	55	95	140	108	0.12	0.21	2.7	3	SDC-FL110	56	SEE NOTES
VAV-C102	TSS	10"	400	200	400	0.62	20.29	55	95	140	111	0.10	0.29	1.4	3	SDC-FL110	37	SEE NOTES
VAV-C103	TSS	12"	1200	600	1200	1.12	56.87	55	95	140	113	0.48	1.17	4.3	4	SDC-FL110	50	SEE NOTES
VAV-C104	TSS	12"	870	435	870	0.93	40.11	55	95	140	113	0.21	1.02	3.0	3	SDC-FL110	44	SEE NOTES
VAV-C105	TSS	14"	1520	760	1520	1.1	67.87	55	95	140	96	0.38	0.31	4.5	4	SDC-FL110	65	SEE NOTES
VAV-C106	TSS	14"	1520	760	1520	1.19	67.87	55	95	140	96	0.35	0.31	4.5	4	SDC-FL110	65	SEE NOTES
VAV-D101	TSS	14"	900	450	900	0.78	41.38	55	95	140	108	0.13	0.21	2.7	3	SDC-FL110	56	SEE NOTES

NOTES:
1. REFER TO SPECIFICATION SECTION 233600 FOR ADDITIONAL REQUIREMENTS.
2. UNIT SELECTION MUST ALLOW FOR A MINIMUM 0F 0.50" DOWNSTREAM STATIC PRESSURE.
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
4. UNITS TO BE PROVIDED WITH FACTORY MOUNTED CONTROL TRANSFORMER FROM 277/1 VOLT TO 24 VOLT. COORDINATE ALL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
5. NOISE LEVELS NOT TO EXCEED 20 NC.

23.36.00 - TERMINAL UNIT (FAN-POWERED) SCHEDULE

IDENTITY			PRIMARY AIR (CFM)		FAN					SOUND		ELECTRICAL						HEATING									UNIT	
										NC																		
MARK	MODEL	SIZE	MAX FLOW	MIN FLOW	MAX FLOW (CFM)	ESP (IN-WG)	QTY	PWR (HP)	INLET APD (IN-WG)	RAD	DISCH	UNIT POWER (W)	VOLT	FREQ (HZ)	PH	MCA (A)	MOCP (A)	CAP. (BTU/H)	EAT (°F)	LAT (°F)	DESCRIPTION	EWT (°F)	LWT (°F)	APD (IN-WG)	WPD (FT-WG)	FLOW (GPM)	ROWS	WT (LB)	NOTES
FPB-C101	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.44	29	25	246	277	60	1	4.50	15	42.32	61.5	95.00	HOT WATER	140	104	0.35	1.30	2.4	3	225	SEE NOTES
FPB-C102	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.34	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-C104	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.5	29	25	246	277	60	1	4.50	15	42.32	61.5	95.00	HOT WATER	140	104	0.35	1.30	2.4	3	225	SEE NOTES
FPB-C105	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.38	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-C106	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.36	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-C107	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.29	29	25	246	277	60	1	4.50	15	42.32	61.5	95.00	HOT WATER	140	104	0.35	1.30	2.4	3	225	SEE NOTES
FPB-C108	TCSQ	1235E	2350	1175	2350	0.25	1	1/2	0.24	32	26	551	277	60	1	6.53	15	85.82	61.5	95.00	HOT WATER	140	104	0.26	1.02	4.1	3	297	SEE NOTES
FPB-C111	TCSQ	1220E	1800	900	1800	0.25	1	3/4	0.51	36	26	620	277	60	1	6.50	15	67.95	61.5	95.00	HOT WATER	140	112	0.40	0.90	4.9	3	249	SEE NOTES
FPB-C113	TCSQ	1235E	2500	1250	2500	0.25	1	1/2	0.54	34	28	643	277	60	1	6.53	15	67.95	61.5	95.00	HOT WATER	140	97	0.29	1.14	4.3	3	297	SEE NOTES
FPB-C115	TCSQ	1235E	2500	1250	2500	0.25	1	1/2	0.54	34	28	643	277	60	1	6.53	15	67.95	61.5	95.00	HOT WATER	140	97	0.29	1.14	4.3	3	297	SEE NOTES
FPB-D101	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.3	29	25	246	277	60	1	4.50	15	42.32	61.5	95.00	HOT WATER	140	97	0.35	1.30	2.4	3	225	SEE NOTES
FPB-D102	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.45	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-D103	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.34	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-D104	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.53	29	25	246	277	60	1	4.50	15	49.71	55.0	95.00	HOT WATER	140	111	0.35	0.89	3.6	3	225	SEE NOTES
FPB-D105	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.4	29	25	246	277	60	1	4.50	15	42.32	61.5	95.00	HOT WATER	140	104	0.35	1.30	2.4	3	225	SEE NOTES
FPB-D106	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.41	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-D107	TCSQ	1015E	1100	550	1100	0.25	1	1/2	0.39	29	24	228	277	60	1	4.50	15	41.14	61.5	95.00	HOT WATER	140	104	0.32	1.26	2.3	3	225	SEE NOTES
FPB-D108	TCSQ	1015E	1150	575	1150	0.25	1	1/2	0.25	29	25	246	277	60	1	4.50	15	42.32	61.5	95.00	HOT WATER	140	104	0.35	1.30	2.4	3	225	SEE NOTES

NOTES:
1. REFER TO SPECIFICATION SECTION 233600.
2. UNIT FAN SELECTION MUST ALLOW FOR A MINIMUM OF 0.50" DOWNSTREAM STATIC PRESSURE.
3. UNITS TO BE PROVIDED WITH FACTORY MOUNTED CONTROL TRANSFORMER FROM 277/1 VOLT TO 24 VOLT. COORDINATE ALL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
4. UNITS 2,000 CFM AND OVER TO HAVE SMOKE DETECTORS PROVIDED BY DIVISION 26. COORDINATE SIZE AND LOCATION WITH DIVISION 26 CONTRACTOR.
5. PROVIDE WITH FACTORY MOUNTED DISCONNECT

23.34.33 - HEATED ELECTRIC AIR CURTAIN SCHEDULE

IDENTITY DATA					LOCATION		FAN DATA				HEATING PERFORMANCE				
MARK	MFG	MODEL	WEIGHT (LBS)	TYPE	# NAME	AREA SERVED	CFM	DRIVE	QTY	HP	HEAT SOURCE	CAPACITY (KW) (BTUH)	EAT (°F)	LAT (°F)	ELECTRICAL DATA
AFC-101	Mars Air, Inc	STD284-2EHN-OB	205	HOT WATER HEATED AIR CURTAIN	C103E KITCHEN VESTIBULE	C-BLOCK/CAFETERIA	2,300	DIRECT	2	0.5	ELECTRIC	24	60	92.8	460 V-3-60

23.37.23 - HVAC GRAVITY VENTILATOR SCHEDULE

IDENTITY DATA								
MARK	MANUFACTURER	MODEL	TYPE	AREA SERVED	CFM	MAX CORE VELOCITY (FPM)	THROAT SIZE W	THROAT SIZE L	WEIGHT (LBS)	NOTES
RTV-C1	Greenheck	FGR	RELIEF	C-BLOCK/CAFETERIA	14410	741	56"	50"	302	SEE NOTES
RTV-C2	Greenheck	FGR	RELIEF	C-BLOCK/CAFETERIA	7650	736	34"	44"	169	SEE NOTES
RTV-D2	Greenheck	FGR	RELIEF	D-BLOCK	9650	718	44"	44"	222	SEE NOTES

NOTE:
1. REFER TO SPECIFICATION SECTION 233723.
2. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE RELIEF CONTROL DAMPER FOR ALL ROOFTOP VENTILATORS UNLESS NOTED OTHERWISE.
3. DRIP PAN TO EXTEND A MINIMUM OF 6" ON EACH SIDE OF THE HOOD THROAT.
4. PROVIDE BACKDRAFT DAMPER.
5. PROVIDE HOODS WITH A HINGED BASE.
6. HOODS TO BE MOUNTED ON 18" HIGH ROOF CURB.

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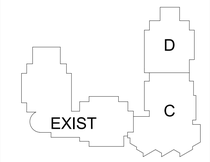

KEY PLAN

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BID DOCUMENTS

PROJECT MANAGER: PW

DRAWN BY: CMS

PROJECT NUMBER: 223216.00

PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

MECHANICAL SCHEDULES

M-601

23.21.13 - EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	LOCATION # NAME	SYSTEM	APPROX. NEW SYSTEM VOLUME (GAL.)	SYSTEM TEMP. RANGE MIN	SYSTEM TEMP. RANGE MAX	PRV FILL PRESSURE AT TANK (PSIG)	MAX. OPERATING PRESSURE (PSIG) RELIEF VALVE	MAX. OPERATING PRESSURE (PSIG) AT EXP. TANK	MIN. TANK VOLUME (GAL)	WEIGHT (LBS)	NOTES
ET-1	Bell & Gossett	D40	EXPANSION TANK	D123 MECHANICAL	CHILLED WATER	619	40	90	15	30	22	25	292	SEE NOTES
ET-2	Bell & Gossett	D120	EXPANSION TANK	D123 MECHANICAL	HOT WATER	789	40	160	15	30	24	70	842	SEE NOTES

NOTES

1 REFER TO SPECIFICATION 232113.
2 EXPANSION TANKS SHALL BE SELECTED WITH 100% WATER.

23.21.23 - HYDRONIC PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	TYPE	LOCATION # NAME	SYSTEM SERVED	PERFORMANCE DATA FLOW RATE (GPM)	HEAD (ftH20)	NPSH	BHP	HP	PUMP η (%)	ELECTRICAL	NOTES
CHWP-1	Bell & Gossett	1.5 AD 213T-S	190	Base Mounted End Suction High Efficiency Pump	D123 MECHANICAL	CHILLED WATER	200	90	10	6.4	10	69.1	460 V-3-60	1,2,3,4,5
CHWP-2	Bell & Gossett	1.5 AD 213T-S	190	Base Mounted End Suction High Efficiency Pump	D123 MECHANICAL	CHILLED WATER	200	90	10	6.4	10	69.1	460 V-3-60	1,2,3,4,5
HWP-1	Bell & Gossett	1.5 BC 184T-S	140	Base Mounted End Suction High Efficiency Pump	D123 MECHANICAL	HEATING HOT WATER	130	70	8	3.7	5	60.8	460 V-3-60	1,2,3,4,5
HWP-2	Bell & Gossett	1.5 BC 184T-S	140	Base Mounted End Suction High Efficiency Pump	D123 MECHANICAL	HEATING HOT WATER	130	70	8	3.7	5	60.8	460 V-3-60	1,2,3,4,5

NOTES:

1 SINGLE POINT POWER CONNECTION, 460/3. PUMP DISCONNECT AND WIRING BETWEEN PUMP AND VFC BY DIVISION 26.
2 MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD.
3 REFER TO PROJECT MANUAL SECTION 232123.
4 PUMP CONTROLLED BY VARIABLE FREQUENCY CONTROLLER.
5 PUMPS WILL OPERATE LEAD/STANDBY (N+1).

23.52.00 - HEATING BOILER SCHEDULE

MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	TYPE	LOCATION # NAME	SYSTEM SERVED	UNIT DIMENSIONS W	D	H	HEATING WATER FLOW DESIGN (GPM)	EWT (°F)	LWT (°F)	ΔT (°F)	WPD (ftH2O)	HEATING CAPACITY INPUT	OUTPUT	EFF. η	ELECTRICAL FLA	ELECTRICAL DATA	NOTES
B-1	Lochinvar	FBN1501	2,307	CREST Condensing Boiler	D123 MECHANICAL	HOT WATER	30"	68"	78"	72	100	140	40	7.3	1,500	1,443	96.4	10	120 V-1-60	SEE NOTES
B-2	Lochinvar	FBN1501	2,307	CREST Condensing Boiler	D123 MECHANICAL	HOT WATER	30"	68"	78"	72	100	140	40	7.3	1,500	1,443	96.4	10	120 V-1-60	SEE NOTES

NOTES

1 HIGH-EFFICIENT CONDENSING HEATING WATER BOILER. NATURAL GAS, FM COMPLIANT GAS TRAIN, LOW NOx BELOW 30 PPM ALL FIRING RATES.
2 MINIMUM WATER FLOW: 25 GPM, MAXIMUM WATER FLOW: 350 GPM. DESIGN FLOW RATE: 72 GPM
3 ANY VARIATION DUE TO MANUFACTURER'S EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
4 CONTROL PANEL PROVIDED BY UNIT MANUFACTURER.
5 MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD.
6 REFER TO SPECIFICATION SECTION 235216.
7 UNIT MANUFACTURER SHALL INCLUDE CONTROL VOLTAGE TRANSFORMER. DISCONNECT BY DIVISION 26.
8 PROVIDE AND INSTALL EMERGENCY GAS SHUTOFF VALVE EQUAL TO ASCO 'REDHAT' 2/2 SERIES 8214 (200), 2-1/2" SIZE OR APPROVED EQUAL.
9 EMERGENCY GAS SHUTOFF VALVE PUSHBUTTON, FOR CONTROL OF THE EMERGENCY GAS SHUTOFF VALVE, SHALL BE SAFETY TECHNOLOGY SS2 SERIES STOPPER STATION OR APPROVED EQUAL

23.64.26 - AIR-COOLED CHILLER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	LOCATION	SYSTEM SERVED	PERFORMANCE DATA REFRIG. TYPE	REFRIG. LBS.	CAPACITY (TONS)	EER	FLV (kW/TON)	EVAPORATOR EWT (°F)	EVAPORATOR LWT (°F)	CONDENSER EAT (°F)	CONDENSER FANS QTY	CONDENSER FANS HP	COMPRESSOR TYPE	QTY	MIN OA DB TEMP (°F)	kW	MCA	MOCP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	STARTER TYPE	WEIGHT (LBS)	NOTES
CHLR-1	TRANE	ACSA	140 NOMINAL TON AIR COOLED SCROLL CHILLER	MECHANICAL YARD	CHILLED WATER	R-454B	100	128.2	10.95	1.095	57	42	95.0 °F	8	13.24	SCROLL	4	95.0 °F	145.5	287	350	460 V	3	60 Hz	ACROSS-THE-LINE	7,897	SEE NOTES

23.64.26 - AIR-COOLED CHILLER SCHEDULE CONT.

EVAPORATOR DRUM

Mark	EWT	LWT	FLOW (GPM)	WPD	Notes
EVAP-1	57.0 °F	42.0 °F	200.0 GPM	5.60 Feet	SEE NOTES

NOTES

1 REFER TO SPECIFICATION SECTION 236423.
2 MOUNT ON REINFORCED CONCRETE SUPPORT PAD. COORDINATE EXACT PAD SIZE WITH UNIT MANUFACTURER.
3 SCCR RATING OF >15kA@480V
4 PROVIDE SINGLE POINT ELECTRICAL CONNECTION TO UNIT
5 PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT
6 SOUND BLANKETS TO BE PLACED ON COMPRESSORS. AMBIENT SOUND LEVEL TO BE <95dB

23.82.39 - UNIT HEATER SCHEDULE

MARK	MFG	MODEL	WEIGHT (LBS)	TYPE	LOCATION # NAME	AREA SERVED	FAN DATA CFM	DRIVE	QTY	HP	CONTROL	HEATING PERFORMANCE HEAT SOURCE	CAPACITY (MBH)	EAT (°F)	LAT (°F)	HW COIL FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT)	ELECTRICAL DATA	NOTES
CUH-C1	RAYWALL	RC/W-420-06	125	HOT WATER CEILING	C200 VESTIBULE	C-BLOCK/CAFETERIA	350	DIRECT	1	0.06	THERMOSTAT	HOT WATER	16.3	60	102.2	1.7	140	120	0.5	120 V-1-60	1,2,3,6
CUH-C2	RAYWALL	RC/W-420-06	130	HOT WATER WALL	C500 CORRIDOR	C-BLOCK/CAFETERIA	620	DIRECT	1	0.06	THERMOSTAT	HOT WATER	36.6	60	113.6	3.7	140	120	10.1	120 V-1-60	1,2,4,6,7
CUH-C3	RAYWALL	RC/W-420-06	125	HOT WATER CEILING	C500 CORRIDOR	C-BLOCK/CAFETERIA	350	DIRECT	1	0.06	THERMOSTAT	HOT WATER	16.3	60	102.2	1.7	140	120	0.5	120 V-1-60	1,2,3,6
CUH-D1	RAYWALL	RC/W-420-06	125	HOT WATER CEILING	D580 CORRIDOR	D-BLOCK	350	DIRECT	1	0.06	THERMOSTAT	HOT WATER	16.3	60	102.2	1.7	140	120	0.5	120 V-1-60	1,2,3,6
PUH-C1	RITTLING	RH-47	50	HORIZONTAL HOT WATER	C119 MAINTENANCE	C-BLOCK/CAFETERIA	565	DIRECT	1	0.06	THERMOSTAT	HOT WATER	15.8	60	85.3	1.6	140	120	0.1	120 V-1-60	1,2,3,4,5
PUH-C2	RITTLING	RH-86	63	HORIZONTAL HOT WATER	C117 MECHANICAL	C-BLOCK/CAFETERIA	1,040	DIRECT	1	0.1	THERMOSTAT	HOT WATER	29	60	85.2	2.9	140	120	0.2	120 V-1-60	1,2,3,4,5
PUH-C3	RITTLING	RH-18	37	HORIZONTAL HOT WATER	C100A STORAGE	C-BLOCK/CAFETERIA	310	DIRECT	1	0.03	THERMOSTAT	HOT WATER	6.1	60	77.7	0.6	140	120	0.1	120 V-1-60	1,2,3,4,5
PUH-C4	RITTLING	RH-18	37	HORIZONTAL HOT WATER	C100B CHAIR STORAGE	C-BLOCK/CAFETERIA	310	DIRECT	1	0.03	THERMOSTAT	HOT WATER	6.1	60	77.7	0.6	140	120	0.1	120 V-1-60	1,2,3,4,5
PUH-D1	RITTLING	RH-86	63	HORIZONTAL HOT WATER	D123 MECHANICAL	D-BLOCK	1,340	DIRECT	1	0.1	THERMOSTAT	HOT WATER	35.3	60	83.8	3.5	140	120	0.3	120 V-1-60	1,2,3,4,5

NOTES

1 REFER TO SPECIFICATION 238239.
2 FACTORY MOUNTED DISCONNECT SWITCH.
3 SUPPORT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF FOUR (4), 3/8" DIAMETER THREADED RODS AND VIBRATION ISOLATION.
4 UNIT FURNISHED WITH ADJUSTABLE LOUVER FIN DIFFUSERS TO PROVIDE FOUR-DIRECTION AIR FLOW CONTROL.
5 MOUNT BOTTOM OF UNIT AT 9'-0" AFF
6 STANDARD COLOR TO BE SELECTED BY ARCHITECT/ENGINEER.
7 HORIZONTAL DUSCHARGE UNIT.

23.82.39 - ELECTRIC UNIT HEATER SCHEDULE

MARK	MFG	MODEL	WEIGHT (LBS)	TYPE	LOCATION # NAME	AREA SERVED	FAN DATA CFM	DRIVE	QTY	CONTROL	HEATING PERFORMANCE HEAT SOURCE	HEAT (kW)	CAPACITY (BTUH)	EAT (°F)	LAT (°F)	ELECTRICAL DATA	NOTES
EPUH-D1	RAYWALL	5100	25	HORIZONTAL ELECTRIC	D113A EMERGENCY ELECTRICAL	D-BLOCK	400	DIRECT	1	THERMOSTAT	ELECTRIC	3.3	11.1	60	85.5	277 V-1-60	SEE NOTES
EPUH-D2	RAYWALL	5100	25	HORIZONTAL ELECTRIC	D113 ELECTRICAL	D-BLOCK	400	DIRECT	1	THERMOSTAT	ELECTRIC	3.3	11.1	60	85.5	277 V-1-60	SEE NOTES

NOTES

1 REFER TO SPECIFICATION 238239.
2 FACTORY MOUNTED DISCONNECT SWITCH.
3 HORIZONTAL DISCHARGE UNIT.
4 SUPPORT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF FOUR(4), 3/8" DIAMETER THREADED RODS AND VIBRATION ISOLATION.
5 UNIT FURNISHED WITH ADJUSTABLE LOUVER FIN DIFFUSERS TO PROVIDE FOUR-DIRECTION AIR FLOW CONTROL.

23.29.23 - VARIABLE-FREQUENCY MOTOR CONTROLLER SCHEDULE

IDENTITY DATA MARK	LOCATION # NAME	MOTOR HP	INTEGRAL BYPASS	ELECTRICAL DATA
VFD-CHWP-1	D123 MECHANICAL	10	Yes	480 V-3-vHZ
VFD-CHWP-2	D123 MECHANICAL	10	Yes	480 V-3-vHZ
VFD-HWP-1	D123 MECHANICAL	5	Yes	480 V-3-vHZ
VFD-HWP-2	D123 MECHANICAL	5	Yes	480 V-3-vHZ

NOTES:

1 DRIVE PROVIDED AND INSTALLED BY THE DIVISION 23 - HVAC CONTRACTOR.
2 DIVISION 26 - ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO VFC AND FROM VFC TO MOTOR(S).
3 TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROL WIRING.
4 REFER TO SPECIFICATION SECTION 232923.

23.21.13 - COMBINATION AIR DIRT SEPARATOR SCHEDULE

MARK	MAX FLOW	MAX WPD (FT)	SIZE (IN.)	SYSTEM
ADS-2	295 GPM	0.7	4	HOT WATER
ADS-1	293 GPM	1.23	5	CHILLED WATER

23.81.26 - SPLIT SYSTEM AIR CONDITIONER SCHEDULE

MARK	MFG	MODEL	VOLT.	PH	HZ	FAN MOTOR OUTPUT WATTS	ELECTRICAL MOCP	EER	ELECTRICAL SCCR	EVAPORATIVE COOLING UNIT SCHEDULE SUPPLY FAN SYSTEM DEMAND (CFM)	COOLING EVAPORATOR COIL TOT. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	COMPRESSOR REFRIG.	COMPRESSOR TYPE	UNIT SIZE (IN) W	D	H	NOTES
ACCU-C1	Mitsubishi Electric	PUY-AK12NL	208 V	1	60 Hz	51	27.00 A	14.8	5 kA	1590	12000	95.0	0.0	0.0	-459.7	454B	ROTORY	35.00	12.00	25.00	SEE NOTES
SSCU-C1	Mitsubishi Electric	PKA-AL12NL	208 V	1	60 Hz	30				215, 255, 320, 375	12000	90.0	73.0	69.0	59.0	454B		36.00	10.00	12.00	SEE NOTES

NOTES:

1 WALL MOUNTED UNIT.
2 ELECTRICAL SERVICE TO BE SUPPLIED TO EACH UNIT BY ELECTRICAL CONTRACTOR.
3 PROVIDE QUICK CONNECTS AT INDOOR UNIT.
4 UNIT MANUFACTURER SHALL PROVIDE REQUIRED HANGING BRACKETS TO PROPERLY SUPPORT UNIT.
5 LIQUID REFRIGERANT LINES TO BE COMPLETE WITH SERVICE BALL VALVES PER CIRCUIT.
6 ALL REFRIGERANT LINES TO BE INSULATED FROM OUTDOOR UNIT TO INDOOR TERMINAL UNIT.
7 UNIT PROVIDED WITH DECORATIVE PANEL
8 REFRIGERANT CONTROL UNIT TO BE PROVIDED FOR INDOOR UNIT. UNIT TO BE INSTALLED AND PROVIDED WITH ELECTRICAL SERVICE PER MANUFACTURERS REQUIREMENTS.
9 UNIT MANUFACTURER TO PROVIDE WALL MOUNTED THEROSTAT.
10 INSTALL UNIT PER MANUFACTURERS REQUIREMENTS.
11 OUTDOOR UNIT TO INCLUDE CASE HEATER.
12 OUTDOOR UNIT TO BE PLACED AT GROUND LEVEL ON 4" CONCRETE PAD.

HVAC WATER TREATMENT EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	LOCATION SYSTEM SERVED	TANK TYPE	TANK VOL	TANK DIA.	TANK HT.	WEIGHT (LBS)	NOTES
CFS-1	Wessels Company	CPFTA-5	HEATING WATER CHEMICAL SHOT FEEDER	HOT WATER	CHEMICAL POT FEEDER	5	10"	23"	23	SEE NOTES
CFS-2	Wessels Company	CPFTA-5	HEATING WATER CHEMICAL SHOT FEEDER	HOT WATER	CHEMICAL POT FEEDER	5	10"	23"	23	SEE NOTES

NOTES:

1 HEATING WATER CHEMICAL SHOT FEEDER, 5 GALLON CAPACITY.
2 MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD.
3 INCLUDE LEG SUPPORT.
4 REFER TO PROJECT MANUAL SECTION 232500.

23.37.13 - EXTERIOR LOUVER SCHEDULE

MARK	DESCRIPTION	Location	MFG	APPLICATION	Air Flow	MIN FREE AREA (SF)	Size	Depth	FREE AREA VELO. (FPM)	STATIC PD (IN-WC)	LOUVER TYPE	MATERIAL/ FINISH	NOTES
WL-1 OA	5" WIND DRIVEN RAIN	C117	GREENHECK	INTAKE	22,060	29.5	96"x96"	5"	747 FPM	0.08	STATIONARY - DRAINABLE BLADE	6065-T5 ALUMINUM	SEE NOTES
WL-2 EA	5" WIND DRIVEN RAIN	C117	GREENHECK	EXHAUST	550	0.7	18"x18"	5"	840 FPM	0.14	STATIONARY - DRAINABLE BLADE	6065-T5 ALUMINUM	SEE NOTES
WL-3 OA	5" WIND DRIVEN RAIN	D114	GREENHECK	INTAKE	9,650	10.7	56"x64"	5"	898 FPM	0.12	STATIONARY - DRAINABLE BLADE	6065-T5 ALUMINUM	SEE NOTES

NOTES

1 REFER TO SPECIFICATION SECTION 089119.
2 SEAL ALL AROUND WITH SILICONE.
3 REFER TO INSTALLATION DETAILS ON SHEET M-501 AND ARCHITECTURAL DRAWINGS.
4 CUSTOM COLOR TO BE SELECTED BY THE ARCHITECT/ENGINEER.
5 COORDINATE SIZE AND LOCATION WITH ALL TRADES AND ARCHITECTURAL ELEVATIONS.

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

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MSD OF PIKE TOWNSHIP

ARCHITECT

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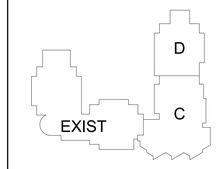

KEY PLAN

N

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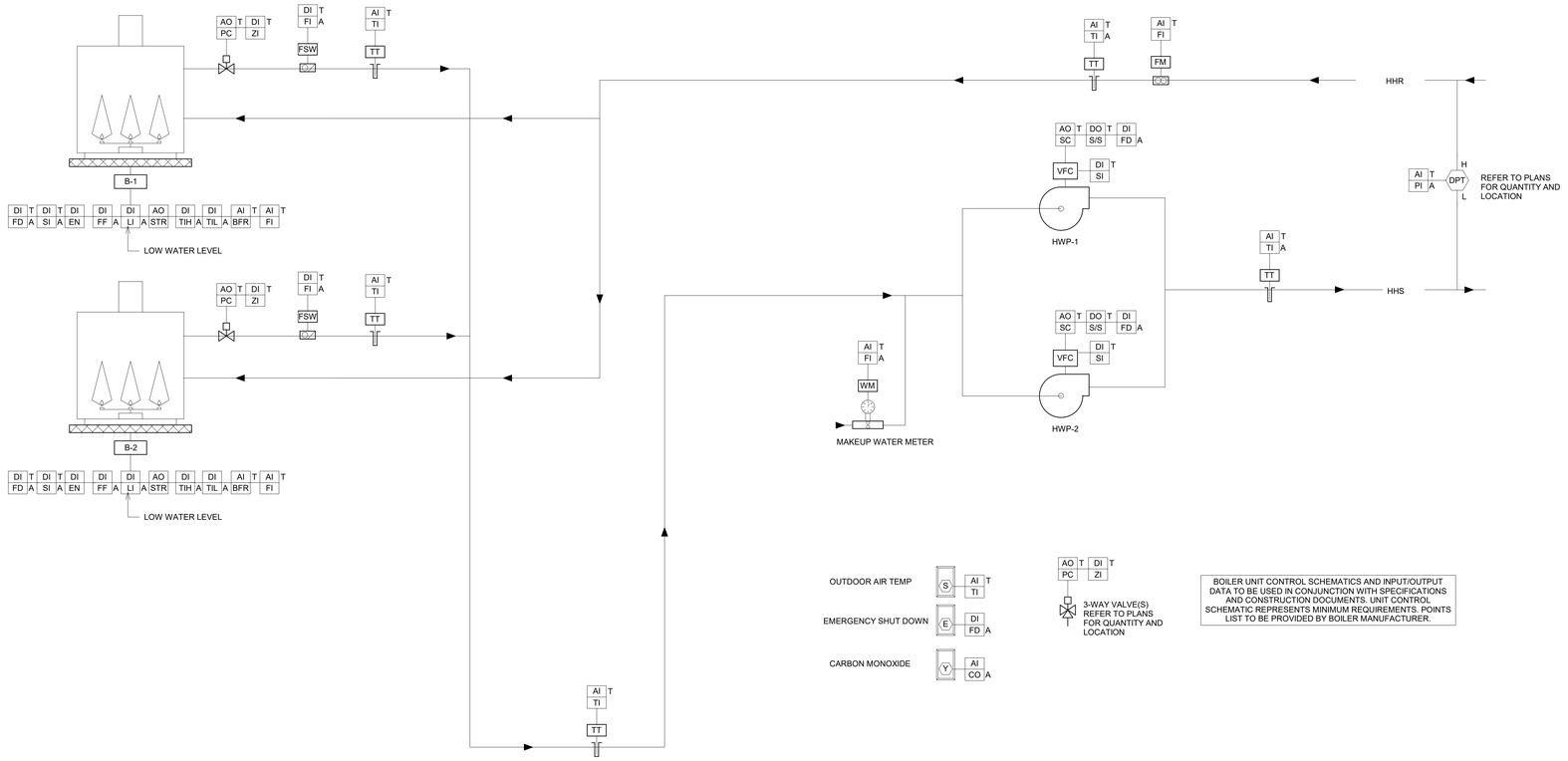
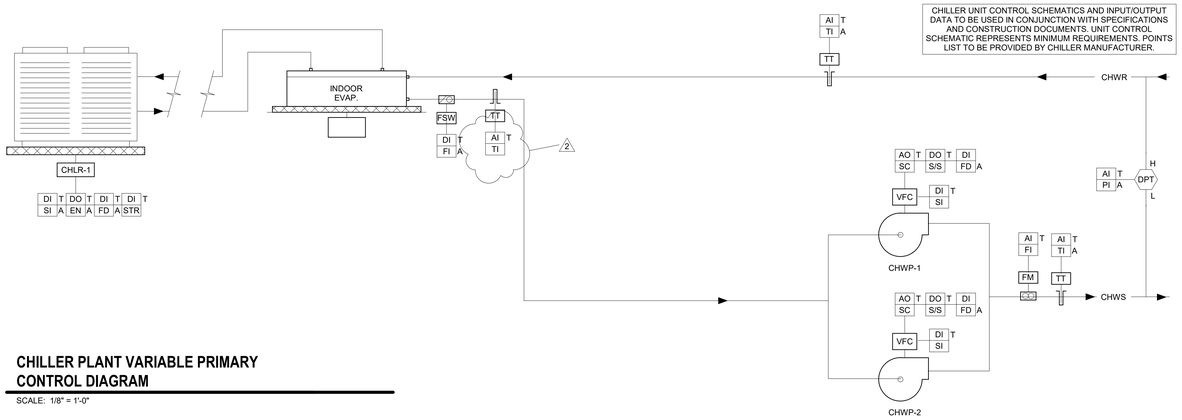
MECHANICAL SCHEDULES

M-602



HEATING PLANT VARIABLE PRIMARY CONTROL DIAGRAM

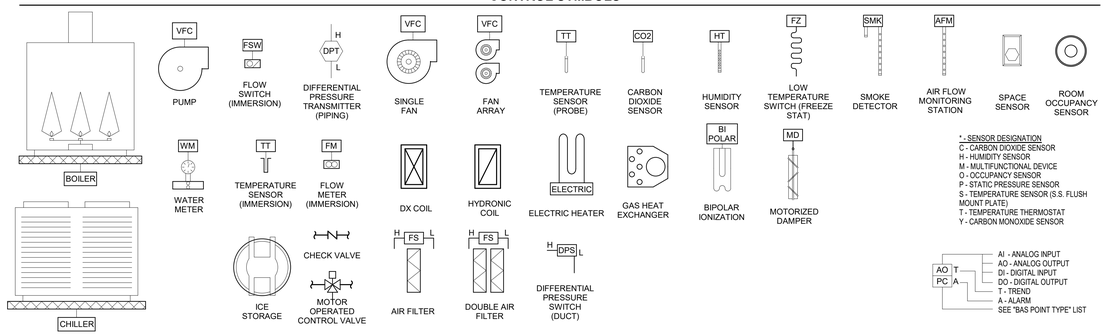
SCALE: 1/8" = 1'-0"



CHILLER PLANT VARIABLE PRIMARY CONTROL DIAGRAM

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

CONTROL SYMBOLS



TEMPERATURE CONTROL SYMBOLS & ABBREVIATIONS

CONTROL ABBREVIATIONS

AFM - AIR FLOW MONITORING STATION
BSP - BUILDING STATIC PRESSURE
CO2 - CO2 LEVEL TRANSMITTER
CO - CO LEVEL TRANSMITTER
DPS - DIFFERENTIAL PRESSURE SWITCH
DPT - DIFFERENTIAL PRESSURE TRANSMITTER
FM - FLOW METER
FS - FILTER STATUS
FSW - FLOW SWITCH
FT - FLOW TRANSMITTER
FZ - FREEZESTAT
GCV - GAS CONTROL VALVE
HT - HUMIDITY TRANSMITTER
HTG - HEATING ELEMENT
LT - LEVEL TRANSMITTER
M - MOTOR
MD - MOTORIZED DAMPER
OCC - OCCUPANCY SENSOR
PKG - PACKAGED EQUIPMENT CONTROLLER
SMK - SMOKE DETECTOR
SNW - SNOW/ICE SENSOR
TCV - TEMPERATURE CONTROL VALVE
TT - TEMPERATURE TRANSMITTER
WM - WATER METER
VFC - VARIABLE FREQUENCY CONTROLER

* - SENSOR DESIGNATION
C - CARBON DIOXIDE SENSOR
H - HUMIDITY SENSOR
M - MULTIFUNCTIONAL DEVICE
O - OCCUPANCY SENSOR
P - STATIC PRESSURE SENSOR
S - TEMPERATURE SENSOR (S.S. FLUSH MOUNT PLATE)
T - TEMPERATURE THERMOSTAT
Y - CARBON MONOXIDE SENSOR

AO T PC A
AI - ANALOG INPUT
AO - ANALOG OUTPUT
DI - DIGITAL INPUT
DO - DIGITAL OUTPUT
T - TREND
A - ALARM
SEE "BAS POINT TYPE" LIST

BAS POINT TYPE

BFR - BOILER FIRE RATE %
CAP - EQUIPMENT CAPACITY SIGNAL
CO2 - CARBON DIOXIDE LEVEL
CO - CARBON MONOXIDE LEVEL
EN - EQUIPMENT ENABLE
FF - FLAME FAILURE
FI - FLOW INDICATE
FD - FAULT DETECTOR OR ALARM
HI - HUMIDITY INDICATE
LI - LEVEL INDICATE
MS - MOTION SENSOR
O/C - OPEN/CLOSE (DAMPER/VALVE)
OI - OCCUPIED/UNOCCUPIED INDICATE
PC - POSITION CONTROL (DAMPER/VALVE)
PI - PRESSURE INDICATE
RV - REVERSE VALVE
SC - SPEED CONTROL
SI - STATUS INDICATOR
SD - SMOKE DETECTOR
SNW - SNOW/ICE INDICATE
SO - SPACE OVERRIDE (OCCU./UNOCCU.)
SPT - SETPOINT SIGNAL
S/S - START/STOP
STR - SETPOINT RESET
TI - TEMPERATURE INDICATE
TIH - HIGH TEMPERATURE INDICATE
TIL - LOW TEMPERATURE INDICATE
TS - TIMER SWITCH
ZI - POSITION INDICATE

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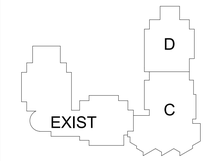

KEY PLAN

BID DOCUMENTS

MARK Z. HOOF REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

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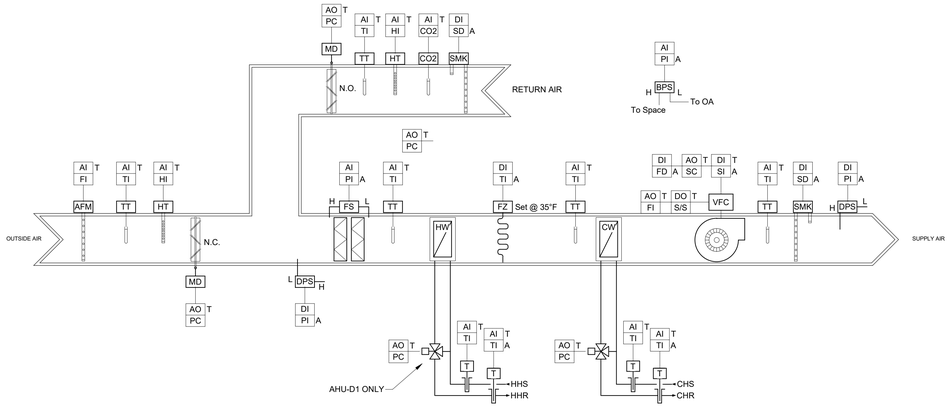
MECHANICAL SCHEMATICS

M-701



VAV AHU-C1 & AHU-D1 AHU SCHEMATIC

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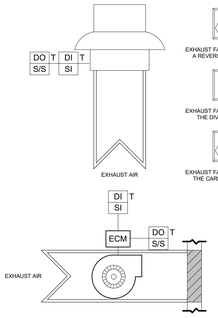
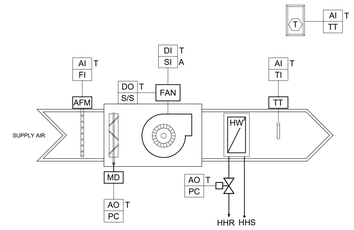


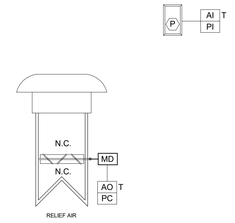
EXHAUST FAN SCHEMATIC

SCALE: 12" = 1'-0"



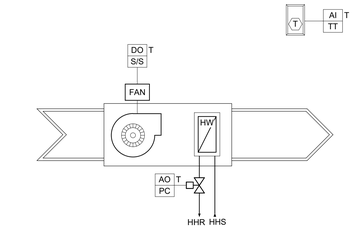
FAN POWERED VAV BOX SCHEMATIC

SCALE: 12" = 1'-0"



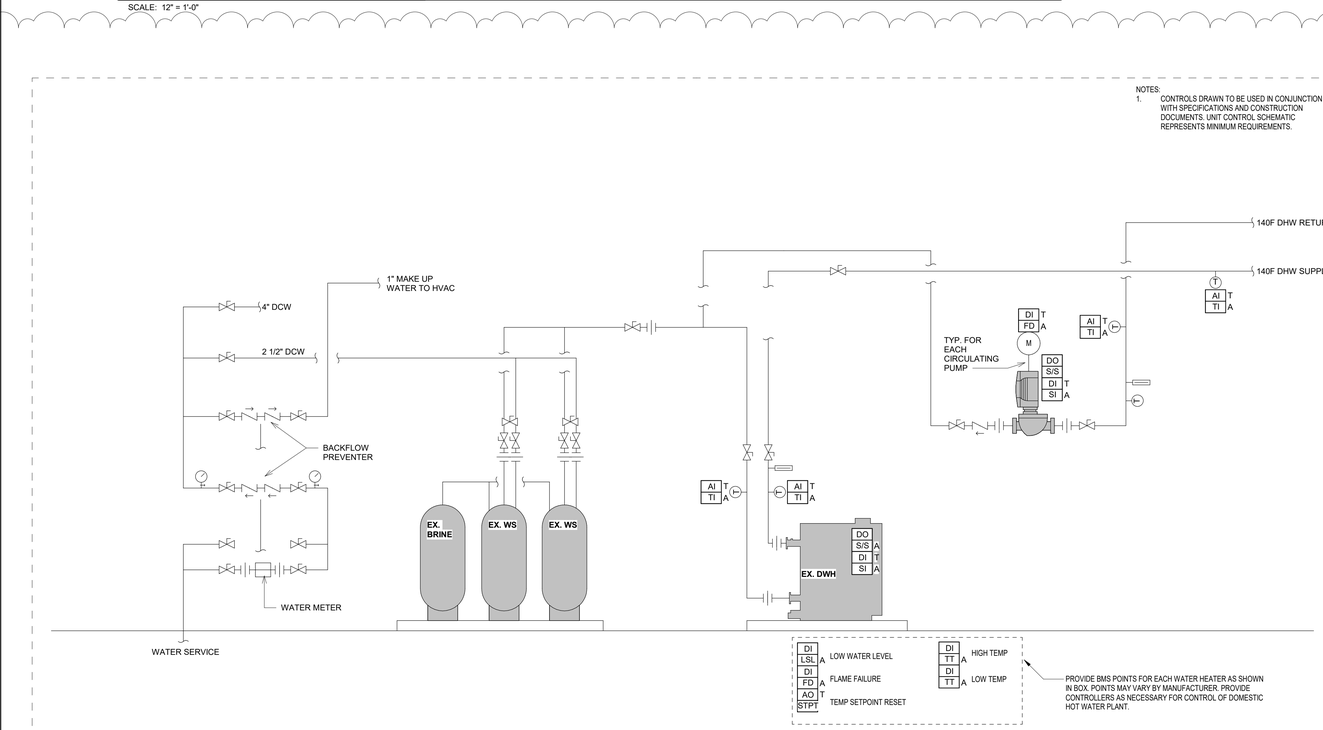
ROOFTOP RELIEF VENTILATOR SCHEMATIC

SCALE: 12" = 1'-0"



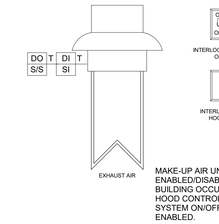
HYDRONIC CABINET / PROPELLER UNIT HEATER SCHEMATIC

SCALE: 12" = 1'-0"



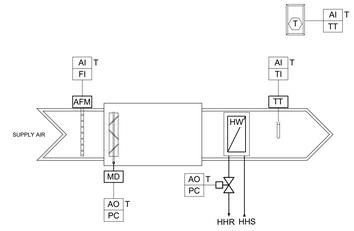
DHW SYSTEM SCHEMATIC

SCALE: 1" = 1'-0"



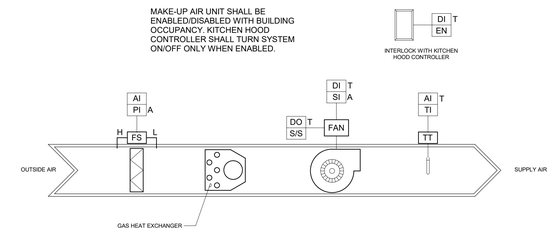
KITCHEN / DISHWASHER EXHAUST FAN SCHEMATIC

SCALE: 12" = 1'-0"



VAV REHEAT BOX SCHEMATIC

SCALE: 12" = 1'-0"



MAKE UP AIR UNIT SCHEMATIC

SCALE: 12" = 1'-0"

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

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INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

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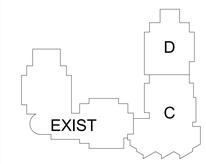


KEY PLAN

N

BID DOCUMENTS

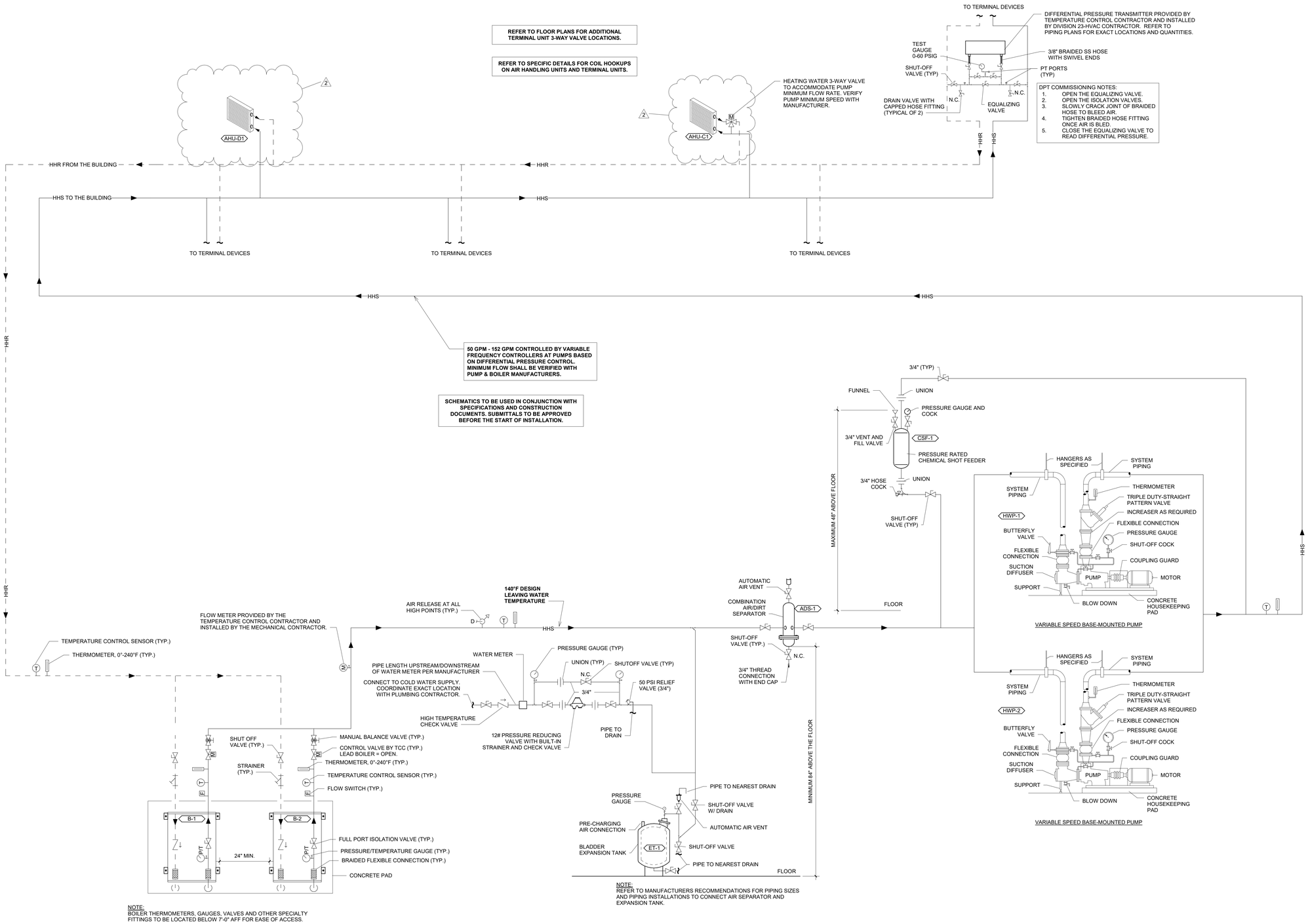
MARK Z. HOFF REGISTERED No. PE 12000301 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: CMS
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	03/26/2026
2	ADDENDUM #3	3/30/2026

MECHANICAL SCHEMATICS

M-702



HHW PLANT SCHEMATIC - VARIABLE PRIMARY

SCALE: 3/32" = 1'-0"

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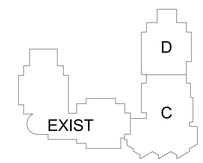


KEY PLAN

N

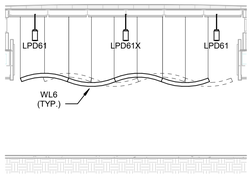
BID DOCUMENTS

PROJECT MANAGER: PW
DRAWN BY: CMS
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-26-2026

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #3	3/30/2026

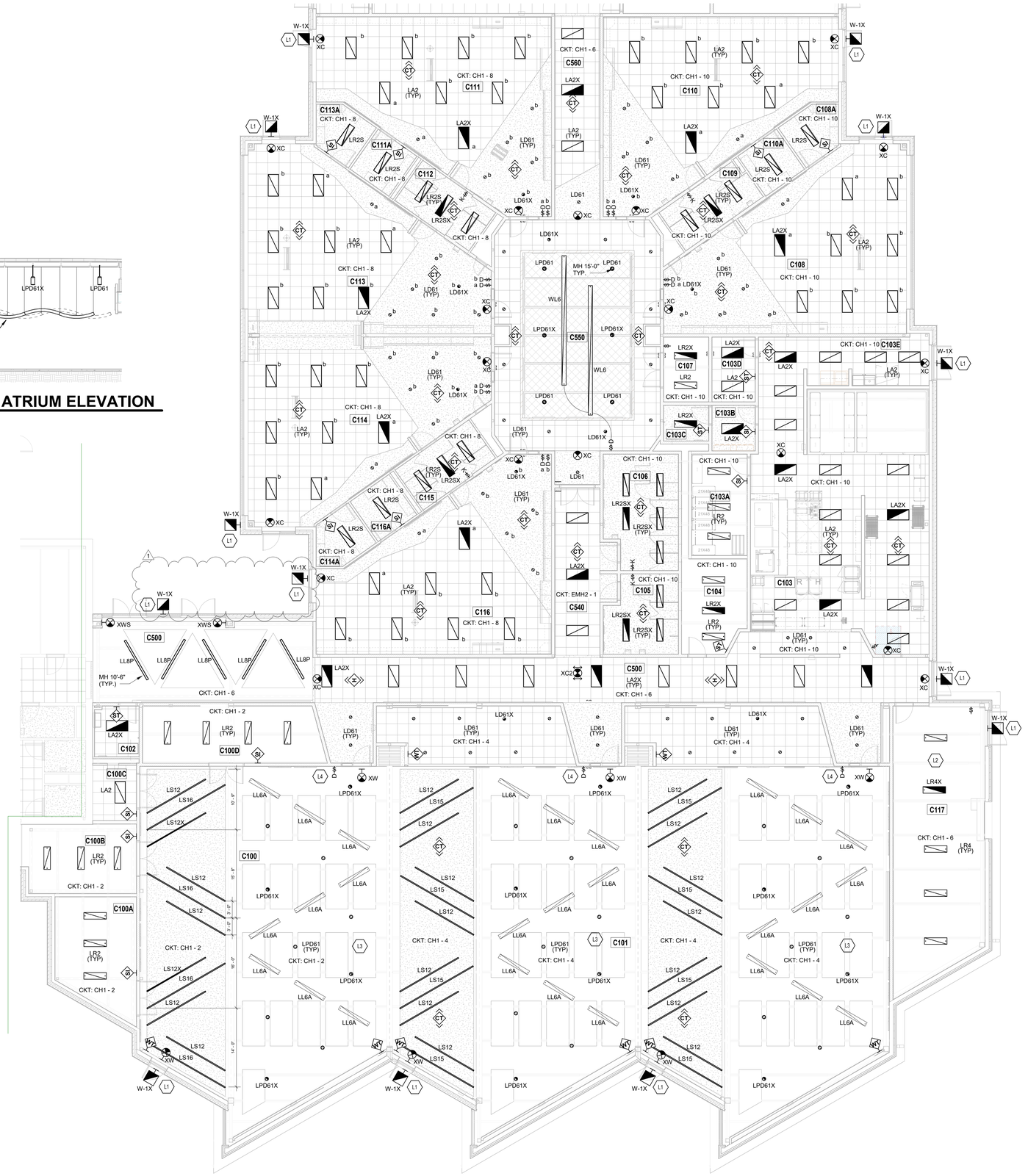
HHW PLANT SCHEMATICS

M-703



RM C550 - ATRIUM ELEVATION

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



ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
C100	GYM / RECREATIONAL ROOM	2515 SF
C100A	STORAGE	274 SF
C100B	CHAIR STORAGE	248 SF
C100C	PLAY EQUIPMENT	77 SF
C100D	STORAGE	318 SF
C101	CAFETERIA	5761 SF
C102	FAMILY RR	70 SF
C103	KITCHEN	1515 SF
C103A	KITCHEN STORAGE	177 SF
C103B	LOCKERS	62 SF
C103C	RESTROOM	51 SF
C103D	OFFICE	88 SF
C103E	KITCHEN VESTIBULE	122 SF
C104	CUSTODIAL	220 SF
C105	MENYS RESTROOM	173 SF
C106	WOMEN'S RESTROOM	258 SF
C107	ELECTRICAL	92 SF
C108	CLASSROOM 3	1090 SF
C108A	STORAGE	79 SF
C109	TOILET	136 SF
C110	CLASSROOM 4	1085 SF
C110A	STORAGE	73 SF
C111	CLASSROOM 5	1085 SF
C111A	STORAGE	73 SF
C112	TOILET	136 SF
C113	CLASSROOM 6	1089 SF
C113A	STORAGE	79 SF
C114	CLASSROOM 2	1089 SF
C114A	STORAGE	79 SF
C115	TOILET	135 SF
C116	CLASSROOM 1	1088 SF
C116A	STORAGE	73 SF
C117	MECHANICAL	771 SF
C118	IT CLOSET	123 SF
C119	MAINTENANCE	178 SF
C200	VESTIBULE	75 SF
C500	CORRIDOR	1838 SF
C540	CORRIDOR	272 SF
C550	CORRIDOR	1218 SF
C560	CORRIDOR	293 SF
C580	CORRIDOR	380 SF

NOTE:
CONNECT ALL EMERGENCY LIGHTING FIXTURES AND EXITS SIGNS ON THIS SHEET TO CIRCUIT XDH1-1.

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"1C/E-502"**.
6. WHERE TWO SWITCHES ARE SHOWN ON PLAN CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
7. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
8. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

LIGHTING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES

L1	WIRE EXTERIOR LIGHTING FIXTURE THROUGH LIGHTING CONTACTOR "LC2" IN ROOM D113A FOR CONNECTION TO BMS. CIRCUIT TO XDH1-5 WITH (2) #4, #8 G IN 1 1/4" C. MOUNT AT 10'-8" AFF.
L2	COORDINATE LOCATION OF LIGHTING FIXTURES IN THIS ROOM WITH MECHANICAL EQUIPMENT.
L3	MOUNT LIGHTING FIXTURES "LL6A" AND "LDP61/X" IN THIS ROOM TO STRUCTUAL STEEL AT 18'-0" AFF. PROVIDE UNISTRUT AS APPLICABLE.
L4	THIS DIMMER SWITCH SHALL CONTROL ALL FIXTURES (LL6A, LDP6/X, LD61/X, AND LS12/5/6) WITHIN THIS SECTION OF THE DIVIDABLE ROOM.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

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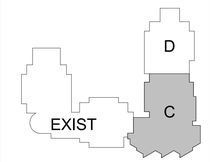


KEY PLAN

N

BID DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE 10000 STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: PW

DRAWN BY: ANE

PROJECT NUMBER: 223216.00

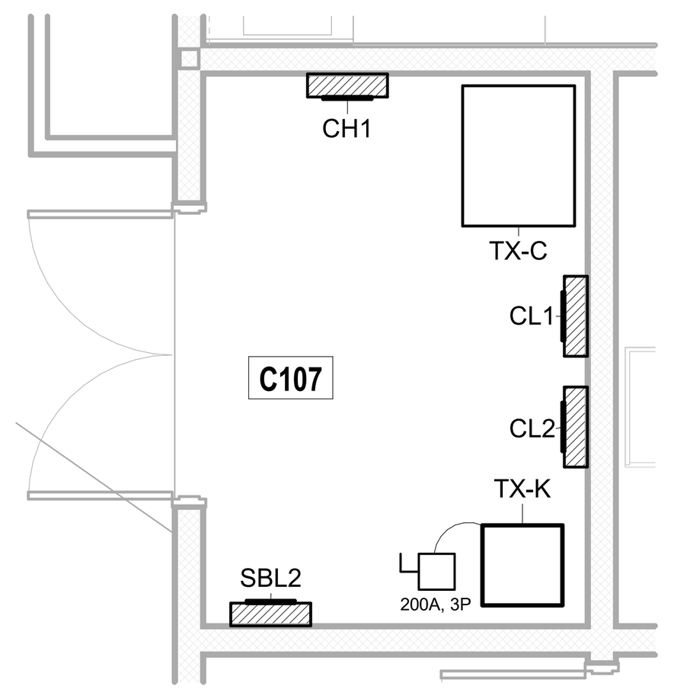
PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

FIRST FLOOR LIGHTING PLAN - UNIT C

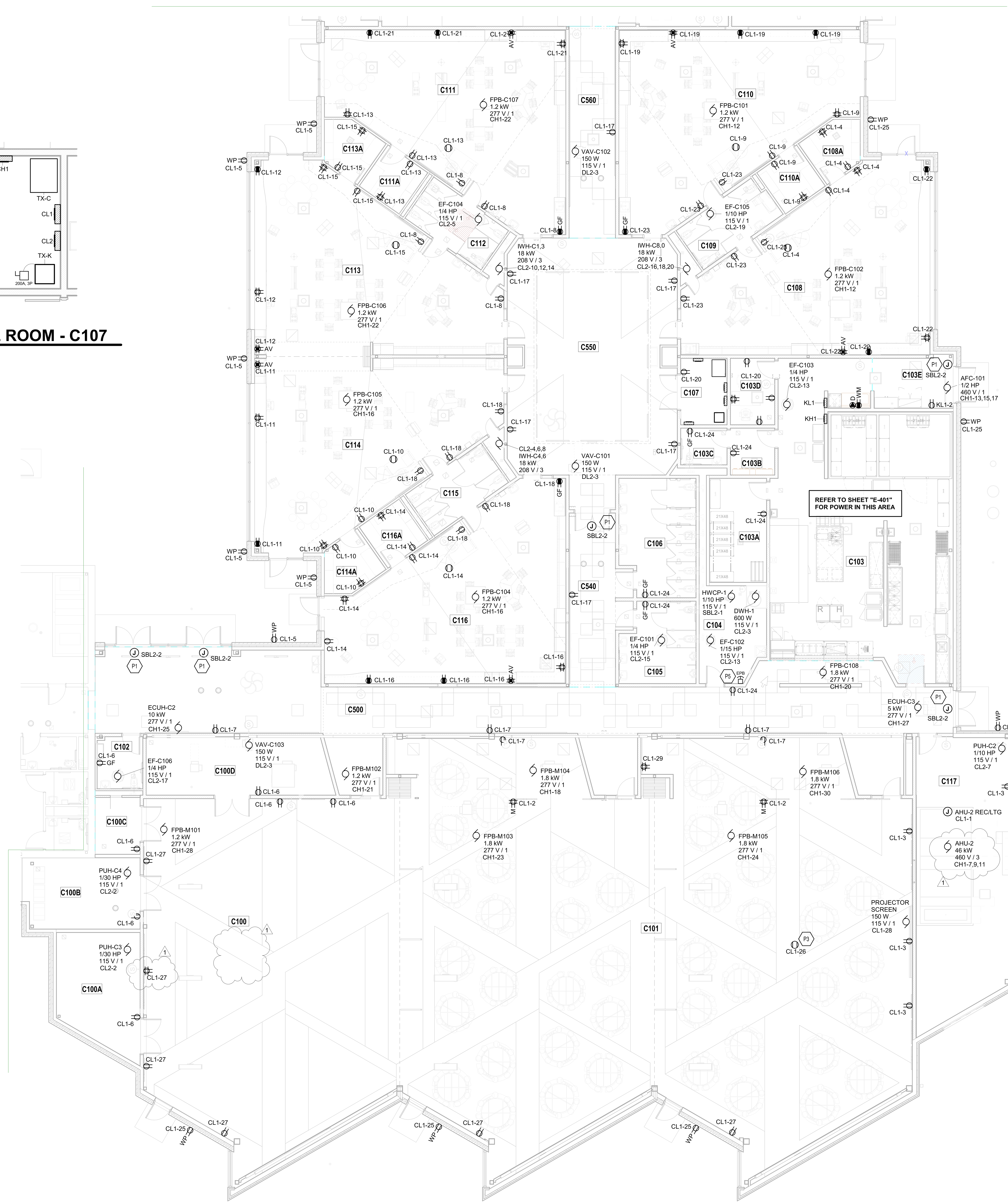
EL11C

FIRST FLOOR LIGHTING PLAN - UNIT C



ELECTRICAL ROOM - C107

SCALE: 1/4" = 1'-0"



FIRST FLOOR POWER PLAN - UNIT C

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
C100	GYM / RECREATIONAL ROOM	2515 SF
C100A	STORAGE	274 SF
C100B	CHAIR STORAGE	248 SF
C100C	PLAY EQUIPMENT	77 SF
C100D	STORAGE	318 SF
C101	CAFETERIA	5761 SF
C102	FAMILY RR	70 SF
C103	KITCHEN	1515 SF
C103A	KITCHEN STORAGE	177 SF
C103B	LOCKERS	62 SF
C103C	RESTROOM	51 SF
C103D	OFFICE	88 SF
C103E	KITCHEN VESTIBULE	122 SF
C104	CUSTODIAL	220 SF
C105	MEN'S RESTROOM	173 SF
C106	WOMEN'S RESTROOM	258 SF
C107	ELECTRICAL	92 SF
C108	CLASSROOM 3	1090 SF
C108A	STORAGE	79 SF
C109	TOILET	136 SF
C110	CLASSROOM 4	1085 SF
C110A	STORAGE	73 SF
C111	CLASSROOM 5	1085 SF
C111A	STORAGE	73 SF
C112	TOILET	136 SF
C113	CLASSROOM 6	1089 SF
C113A	STORAGE	79 SF
C114	CLASSROOM 2	1089 SF
C114A	STORAGE	79 SF
C115	TOILET	135 SF
C116	CLASSROOM 1	1088 SF
C116A	STORAGE	73 SF
C117	MECHANICAL	771 SF
C118	IT CLOSET	123 SF
C119	MAINTENANCE	178 SF
C200	VESTIBULE	75 SF
C500	CORRIDOR	1838 SF
C540	CORRIDOR	272 SF
C550	CORRIDOR	1218 SF
C560	CORRIDOR	293 SF
C580	CORRIDOR	380 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

POWER PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
P1	DOOR LATCH POWER SUPPLY LOCATED ABOVE CEILING
P3	PROVIDE FLOOR ANCHORED STRUT FOR RECEPTACLE.
P5	PROVIDE CONNECTION BETWEEN EACH EMERGENCY PUSH BUTTON (EPB), CONTACTOR, EMERGENCY GAS SHUTOFF VALVE (EGSOV), AND BOILER POWER SOURCE AS SHOWN ON THE "EMERGENCY SHUTOFF" DETAIL ON SHEET "E-501".

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD, INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

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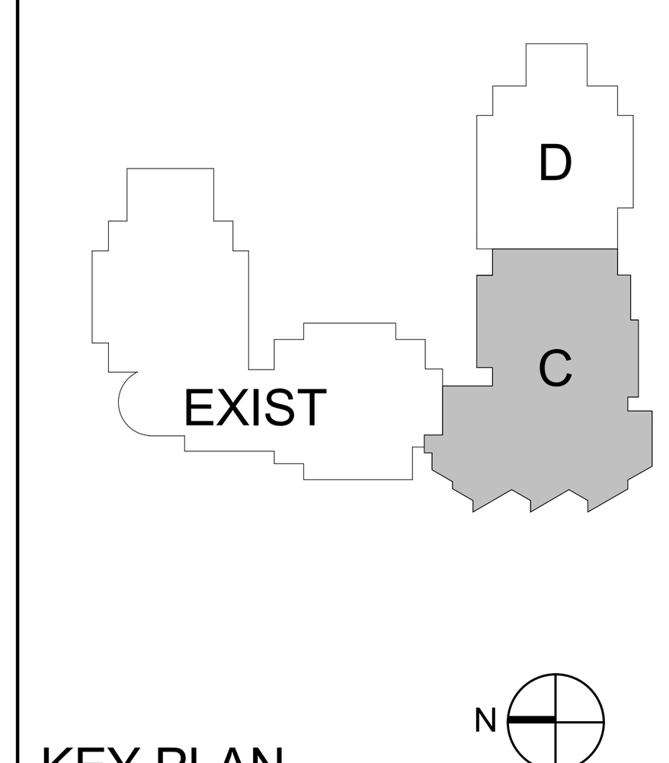


KEY PLAN

BID DOCUMENTS

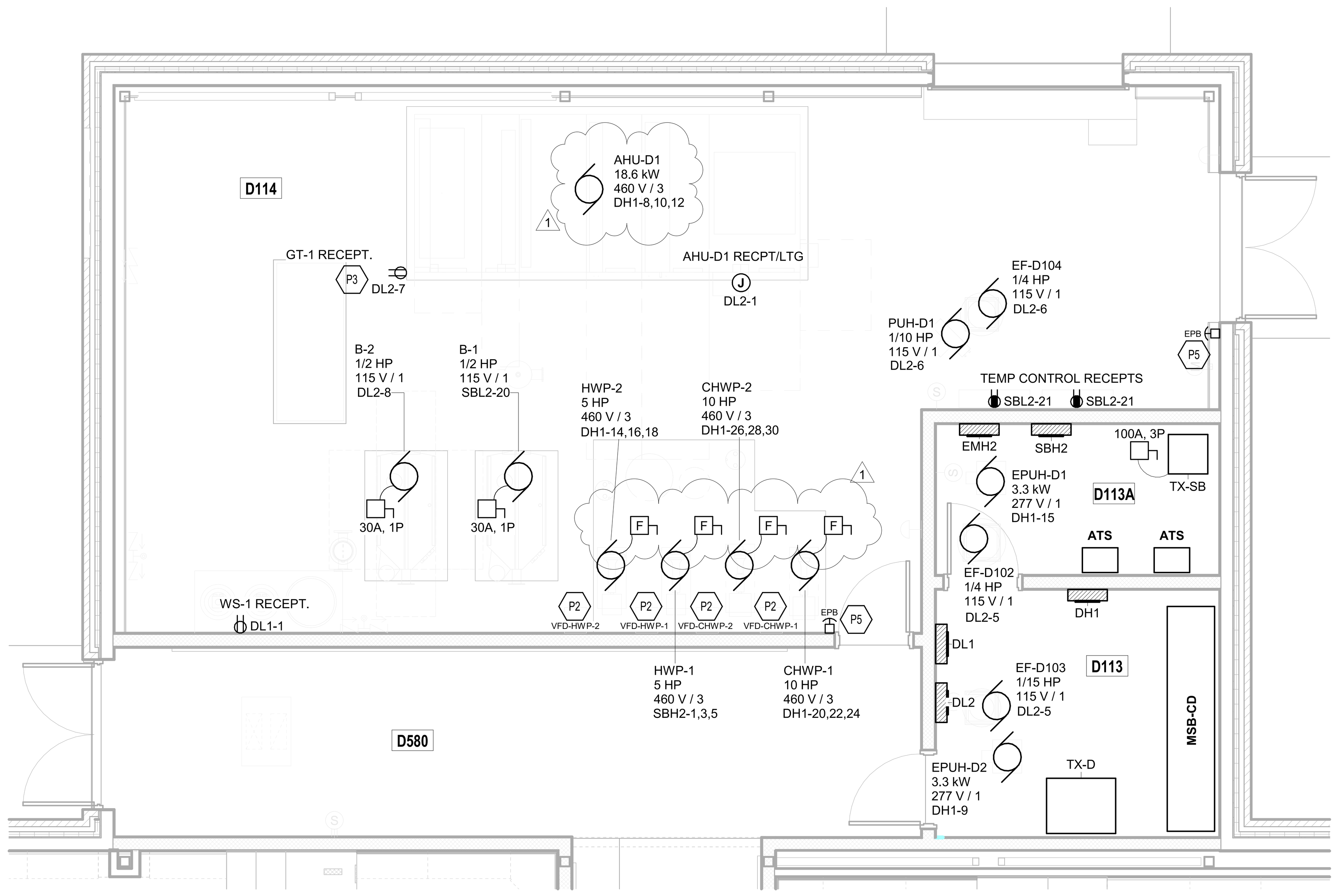
BRIAN W. BUTLER REGISTERED No. PE 11600305 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: ANE
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

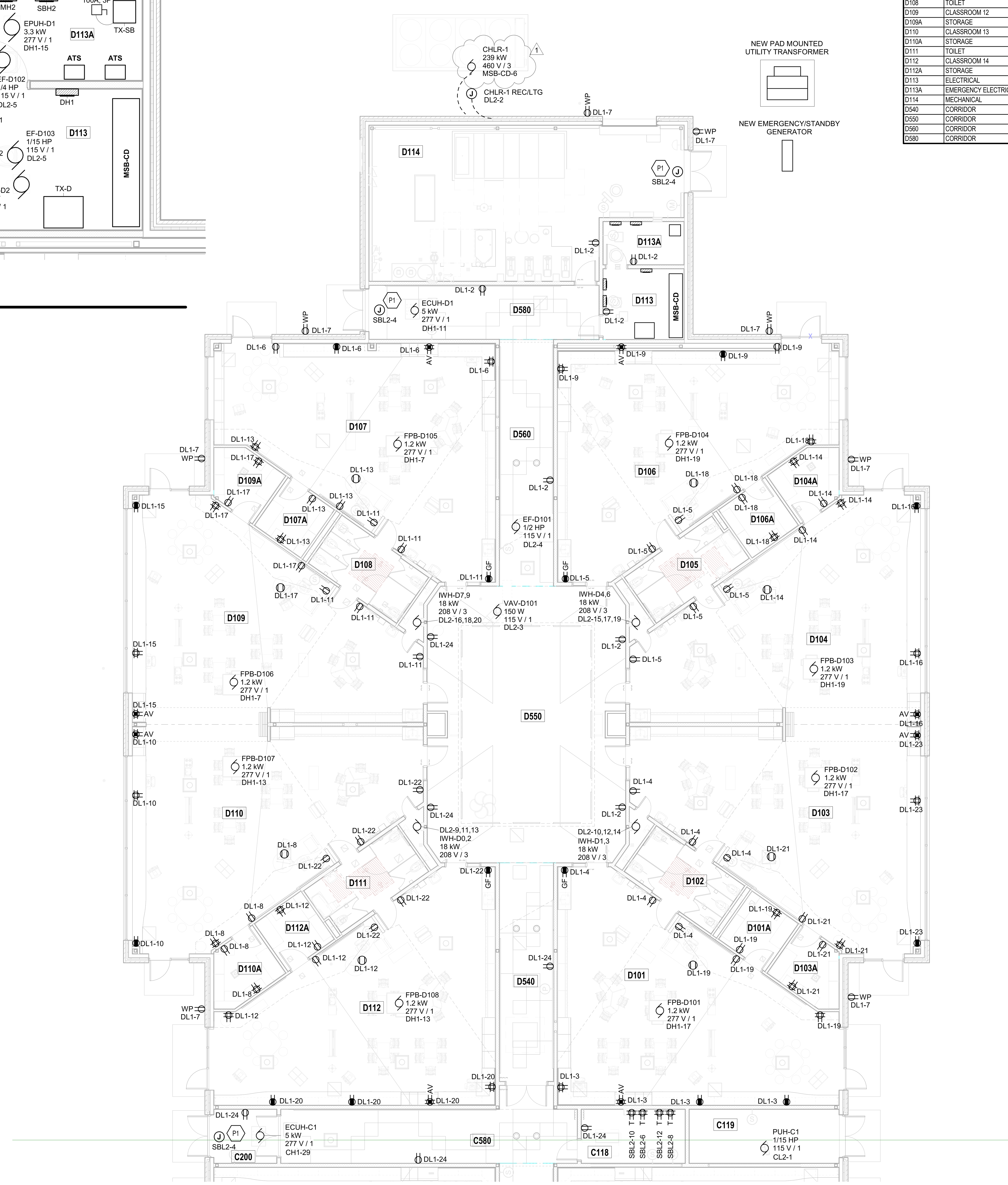
FIRST FLOOR POWER PLAN - UNIT C

EP11C



MECHANICAL ROOM - D114

SCALE: 1/4" = 1'-0"



FIRST FLOOR POWER PLAN - UNIT D

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
C110	CLASSROOM 4	1085 SF
C111	CLASSROOM 5	1085 SF
C118	IT CLOSET	123 SF
C119	MAINTENANCE	178 SF
C200	VESTIBULE	75 SF
C560	CORRIDOR	293 SF
C580	CORRIDOR	380 SF
D101	CLASSROOM 7	1076 SF
D101A	STORAGE	73 SF
D102	TOILET	135 SF
D103	CLASSROOM 8	1089 SF
D103A	STORAGE	83 SF
D104	CLASSROOM 9	1089 SF
D104A	STORAGE	79 SF
D105	TOILET	136 SF
D106	CLASSROOM 10	1045 SF
D106A	STORAGE	73 SF
D107	CLASSROOM 11	1083 SF
D107A	STORAGE	73 SF
D108	TOILET	135 SF
D109	CLASSROOM 12	1089 SF
D109A	STORAGE	79 SF
D110	CLASSROOM 13	1089 SF
D110A	STORAGE	83 SF
D111	TOILET	136 SF
D112	CLASSROOM 14	1076 SF
D112A	STORAGE	73 SF
D113	ELECTRICAL	126 SF
D113A	EMERGENCY ELECTRICAL	77 SF
D114	MECHANICAL	961 SF
D540	CORRIDOR	259 SF
D550	CORRIDOR	1170 SF
D560	CORRIDOR	293 SF
D580	CORRIDOR	273 SF

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
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5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
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7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

POWER PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

SHEET KEYNOTES	
P1	DOOR LATCH POWER SUPPLY LOCATED ABOVE CEILING
P2	VARIABLE FREQUENCY CONTROLLERS PROVIDED BY DIVISION 23. DIVISION 26 TO PROVIDE WIRING BETWEEN PUMP AND CONTROLLERS AND BETWEEN MOTORS AND CONTROLLERS.
P3	PROVIDE FLOOR ANCHORED STRUT FOR RECEPTACLE.
P5	PROVIDE CONNECTION BETWEEN EACH EMERGENCY PUSH BUTTON (EPB), CONTACTOR, EMERGENCY GAS SHUTOFF VALVE (EGSOV), AND BOILER POWER SOURCE AS SHOWN ON THE "EMERGENCY SHUTOFF" DETAIL ON SHEET "E-501".

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

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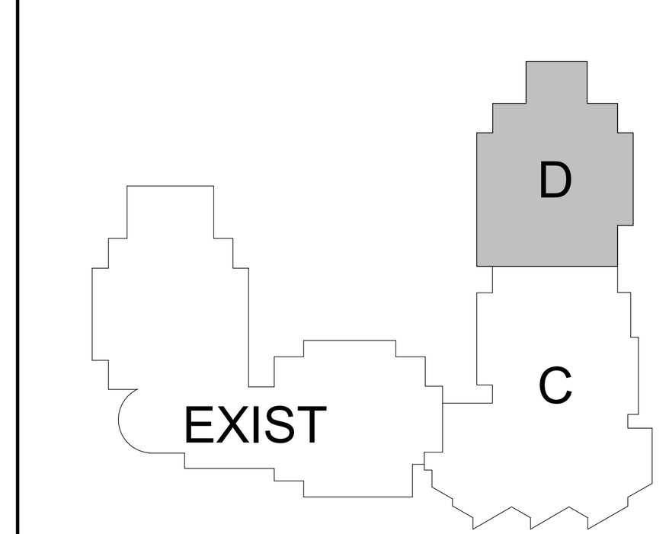
350 E NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204



KEY PLAN

BID DOCUMENTS

BRIAN W. BUTLER
REGISTERED
No.
PE 11600305
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: ANE
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

FIRST FLOOR POWER PLAN - UNIT D

EP11D

LUMINAIRE SCHEDULE

PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	LAMPS LUMENS	APPLIED VOLTAGE	DESCRIPTION	VA LOAD
LA2	LITHONIA BLT SERIES METALUX CRUZE ST SERIES COLUMBIA LCAT SERIES	RECESSED	1	38 W	LED	4000 lm	277 V	2 BY 4-FOOT CENTER LENS TROFFER, FROSTED ACRYLIC DIFFUSER, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING.	38 VA
LA2X	LITHONIA BLT SERIES METALUX CRUZE ST SERIES COLUMBIA LCAT SERIES	RECESSED	1	38 W	LED	4000 lm	277 V	2 BY 4-FOOT CENTER LENS TROFFER, FROSTED ACRYLIC DIFFUSER, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING. WITH EMERGENCY TRANSFER DEVICE.	38 VA
LD61	GOTHAM IVO6 SERIES PORTFOLIO LD6C SERIES PRESCOLITE LFR-6RD SERIES	RECESSED	1	22 W	LED	1500 lm	277 V	6-INCH APERATURE ROUND DOWNLIGHT, CLEAR SEMI-SPECULAR OPEN REFLECTOR, SELF-FLANGED WITH WHITE TRIM, WIDE DISTRIBUTION, 4000K CCT, 80+ CRI, 10% 0-10VDC DIMMING.	22 VA
LD61X	GOTHAM IVO6 SERIES PORTFOLIO LD6C SERIES PRESCOLITE LFR-6RD SERIES	RECESSED	1	22 W	LED	1500 lm	277 V	6-INCH APERATURE ROUND DOWNLIGHT, CLEAR SEMI-SPECULAR OPEN REFLECTOR, SELF-FLANGED WITH WHITE TRIM, WIDE DISTRIBUTION, 4000K CCT, 80+ CRI, 10% 0-10VDC DIMMING. WITH EMERGENCY TRANSFER DEVICE.	10 VA
LL6A	FRASH BEND 72 LIGHTING ELEMENTS ROUND LINE AC LUXX BOX DASCH	SUSPENDED	1	60 W	LED	6000 lm	277 V	72 INCH TUBE FIXTURE WITH ACOUSTICAL HOUSING, COLORS TO BE SELECTED BY ARCHITECT, 4000K CCT, 80+ CRI, 0-10VDC DIMMING	60 VA
LL8P	MARK SLOT 4 SERIES STARTEK BEAM SERIES LITECONTROL MOD 4L SERIES	PENDANT	1	32 W	LED	4000 lm	277 V	8-FOOT LENGTH 4-INCH LINEAR FIXTURE, FLUSH FROSTED ACRYLIC DIFFUSER, 500 LUMENS PER FOOT, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING. PROVIDE ALL MATERIALS NECESSARY FOR AIRCRAFT CABLE SUSPENSION.	32 VA
LPD61	GOTHAM EVO6 SERIES PORTFOLIO LER6C SERIES PRESCOLITE LTC-6RDW SERIES	PENDANT	1	25 W	LED	2500 lm	277 V	6-INCH APERATURE ROUND CYLINDER DOWNLIGHT, CLEAR SEMI-SPECULAR OPEN REFLECTOR, WHITE FINISH, MEDIUM DISTRIBUTION, 4000K CCT, 80+ CRI, 10% 0-10VDC DIMMING. INSTALL AS PENDANT WITH CONDUIT STEMS.	25 VA
LPD61X	GOTHAM EVO6 SERIES PORTFOLIO LER6C SERIES PRESCOLITE LTC-6RDW SERIES	PENDANT	1	25 W	LED	2500 lm	277 V	6-INCH APERATURE ROUND CYLINDER DOWNLIGHT, CLEAR SEMI-SPECULAR OPEN REFLECTOR, WHITE FINISH, MEDIUM DISTRIBUTION, 4000K CCT, 80+ CRI, 10% 0-10VDC DIMMING. INSTALL AS PENDANT WITH CONDUIT STEMS. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	25 VA
LR2	LITHONIA SBL SERIES METALUX WNLED SERIED COLUMBIA LAW SERIES	SUSPENDED	1	37 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	37 VA
LR2S	LITHONIA SBL SERIES METALUX WNLED SERIED COLUMBIA LAW SERIES	SURFACE	1	37 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	37 VA
LR2SX	LITHONIA SBL SERIES METALUX WNLED SERIED COLUMBIA LAW SERIES	SURFACE	1	37 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	37 VA
LR2X	LITHONIA SBL SERIES METALUX WNLED SERIED COLUMBIA LAW SERIES	SUSPENDED	1	37 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	37 VA
LR4	LITHONIA SBL SERIES METALUX WSNLED SERIED COLUMBIA LAW SERIES	SUSPENDED	1	60 W	LED	7000 lm	277 V	4-FOOT WRAP LED AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	60 VA
LR4X	LITHONIA SBL SERIES METALUX WSNLED SERIED COLUMBIA LAW SERIES	SUSPENDED	1	60 W	LED	7000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	60 VA
LS12	MARK SLOT 2 SERIES STARTEK SLIM BEAM SERIES LITECONTROL MOD 2L SERIES	RECESSED	1	48 W	LED	6000 lm	277 V	2-INCH LINEAR FIXTURE, 12-FOOT LENGTH, FLUSH FROSTED ACRYLIC DIFFUSER, 400 LUMENS PER FOOT, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING.	48 VA
LS12X	MARK SLOT 2 SERIES STARTEK SLIM BEAM SERIES LITECONTROL MOD 2L SERIES	RECESSED	1	48 W	LED	6000 lm	277 V	2-INCH LINEAR FIXTURE, 12-FOOT LENGTH, FLUSH FROSTED ACRYLIC DIFFUSER, 400 LUMENS PER FOOT, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING, WITH EMERGENCY TRANSFER DEVICE.	48 VA
LS15	MARK SLOT 2 SERIES STARTEK SLIM BEAM SERIES LITECONTROL MOD 2L SERIES	RECESSED	1	60 W	LED	7500 lm	277 V	2-INCH LINEAR FIXTURE, 15-FOOT LENGTH, FLUSH FROSTED ACRYLIC DIFFUSER, 400 LUMENS PER FOOT, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING.	60 VA
LS16	MARK SLOT 2 SERIES STARTEK SLIM BEAM SERIES LITECONTROL MOD 2L SERIES	RECESSED	1	64 W	LED	8000 lm	277 V	2-INCH LINEAR FIXTURE, 16-FOOT LENGTH, FLUSH FROSTED ACRYLIC DIFFUSER, 400 LUMENS PER FOOT, 80 CRI, 4000K CCT, 10% 0-10VDC DIMMING.	64 VA
SL2	LITHONIA DSX2 SERIES McGRAW-EDISON GLEON SERIES BEACON VP2 SERIES	25'-0" POLE	1	135 W	LED	18000 lm	277 V	FULL CUT-OFF AREA LUMINAIRE, SINGLE FIXTURE, TYPE 2 DISTRIBUTION, RECTANGULAR HOUSING, SQUARE POLE ARM MOUNT, CONFIRM OPTICS WITH ENGINEER (P1, SA4A, OR 160L-135), 75+ CRI, 4000K CCT, 0-10VDC DIMMING. PROVIDE 25-FOOT TALL 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE, AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE, AND MOUNTING ACCESSORIES SHALL BE DARK BRONZE IN COLOR. REFER TO SPECIFICATION SECTION 26 56 00 AND DETAILS ON "E-500" SERIES DRAWINGS FOR ADDITIONAL INFORMATION.	135 VA
SL3	LITHONIA DSX2 SERIES McGRAW-EDISON GLEON SERIES BEACON VP2 SERIES	25'-0" POLE	1	135 W	LED	18000 lm	277 V	FULL CUT-OFF AREA LUMINAIRE, SINGLE FIXTURE, TYPE 3 DISTRIBUTION, RECTANGULAR HOUSING, SQUARE POLE ARM MOUNT, CONFIRM OPTICS WITH ENGINEER (P1, SA4A, OR 160L-135), 75+ CRI, 4000K CCT, 0-10VDC DIMMING. PROVIDE 25-FOOT TALL 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE, AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE, AND MOUNTING ACCESSORIES SHALL BE DARK BRONZE IN COLOR. REFER TO SPECIFICATION SECTION 26 56 00 AND DETAILS ON "E-500" SERIES DRAWINGS FOR ADDITIONAL INFORMATION.	135 VA
SL3A	LITHONIA DSX2 SERIES McGRAW-EDISON GLEON SERIES BEACON VP2 SERIES	25'-0" POLE	1	179 W	LED	24000 lm	277 V	FULL CUT-OFF AREA LUMINAIRE, SINGLE FIXTURE, TYPE 3 DISTRIBUTION, RECTANGULAR HOUSING, SQUARE POLE ARM MOUNT, CONFIRM OPTICS WITH ENGINEER (P2, SA4B, OR 320L-170), 75+ CRI, 4000K CCT, 0-10VDC DIMMING. PROVIDE 25-FOOT TALL 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE, AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE, AND MOUNTING ACCESSORIES SHALL BE DARK BRONZE IN COLOR. REFER TO SPECIFICATION SECTION 26 56 00 AND DETAILS ON "E-500" SERIES DRAWINGS FOR ADDITIONAL INFORMATION.	179 VA
SL4	LITHONIA DSX2 SERIES McGRAW-EDISON GLEON SERIES BEACON VP2 SERIES	25'-0" POLE 1	1	135 W	LED	19000 lm	277 V	FULL CUT-OFF AREA LUMINAIRE, SINGLE FIXTURE, TYPE 4 DISTRIBUTION, RECTANGULAR HOUSING, SQUARE POLE ARM MOUNT, CONFIRM OPTICS WITH ENGINEER (P1, SA4A, OR 160L-135), 75+ CRI, 4000K CCT, 0-10VDC DIMMING. PROVIDE 25-FOOT TALL 4-INCH SQUARE STRAIGHT STEEL POLE WITH VIBRATION DAMPENER, HANDHOLE, AND BASE COVERS FROM SAME MANUFACTURER AS LUMINAIRE. LUMINAIRE, POLE, AND MOUNTING ACCESSORIES SHALL BE DARK BRONZE IN COLOR. REFER TO SPECIFICATION SECTION 26 56 00 AND DETAILS ON "E-500" SERIES DRAWINGS FOR ADDITIONAL INFORMATION.	135 VA
W-1X	LITHONIA WDGE2 SERIES McGRAW-EDISON IMPACT ELITE SERIES BEACON GEOPACK 1 SERIES HUBBELL AIRO SERIES	SURFACE	1	20 W	LED	1200 lm	277 V	TRAPEZOIDAL WALL LUMINAIRE, FORWARD THROW DISTRIBUTION, CONFIRM OPTICS WITH ENGINEER (P2, SA1A, OR 24L-15), DARK BRONSE HOUSING, 75+ CRI, 4000K CCT, 0-10VDC DIMMING. IP65 RATED FOR WET LOCATIONS.	20 VA
WL6	BARBICAN WAVE INCLUDED IN FIXTURE ALLOWANCE	SUSPENDED	1	288 W	LED	4000 lm	277 V	FOUR SECTION "WAVE" LIGHT COMPRISED OF CONCAVE AND CONVEX LIGHTS. EACH SECTION IS 6" HIGH AND 6" WIDE WITH A CURVATURE RADIUS OF 96" FROM CENTER AND IS A 1/8 ARC. 0-10VDC DIMMING, 12W PER FOOT, 100 LM PER WATT. INCLUDED IN FIXTURE ALLOWANCE.	288 VA
XC	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES OR A/E APPROVED EQUAL	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XC2	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES OR A/E APPROVED EQUAL	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, DOUBLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XWS	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL, SIDE MTD.	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA

LUMINAIRE SCHEDULE - GENERAL NOTES

1. ALL LAMPS LISTED IN SCHEDULE ARE SYLVANNIA CATALOG NUMBERS, UNLESS OTHERWISE NOTED. EQUAL LAMPS BY MANUFACTURERS INDICATED IN SPECIFICATION SECTIONS 265600 ARE ACCEPTABLE.
2. SEE SPECIFICATIONS FOR BALLAST REQUIREMENTS.
3. FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
4. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY TRANSFER DEVICES AND PROVIDE REQUIRED QUANTITY OF EMERGENCY TRANSFER DEVICES, LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY TRANSFER DEVICES.
5. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR BALLAST COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY CUSTOM COLOR LIGHT FIXTURES.

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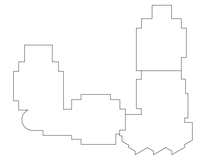

BID DOCUMENTS

PROJECT MANAGER: PW

DRAWN BY: ANE

PROJECT NUMBER: 223216.00

PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

LUMINAIRE SCHEDULE

E-601

Switchboard: MSB-CD

Location: ELECTRICAL D113
Supply From:
Mounting:
Enclosure:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000 A
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	CH1	3	400 A	400 A	181838 VA	
2	DH1	3	400 A	400 A	177846 VA	
3	KH1	3	200 A	200 A	92976 VA	
4	EMH2	3	100 A	100 A	3235 VA	
5	SBH2	3	100 A	100 A	6320 VA	
6	CHLR-1	3	400 A	350 A	239000 VA	ADJUSTABLE ELECTRONIC TRIP
7	Spare	1	200 A	200 A	0 VA	
8	Spare	1	200 A	200 A	0 VA	
9						
10						
11						
12						
				Total Conn. Load:	701215 VA	
				Total Amps:	843 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	535046 VA	111.17%	594796 VA		
Other	87316 VA	100.00%	87316 VA	**Total Conn. Load:**	701215 VA
Transformer	0 VA	0.00%	0 VA	**Total Est. Demand:**	752854 VA
Lighting	18533 VA	125.00%	23166 VA	**Total Conn.:**	843 A
Receptacle - Convenience	54720 VA	80.00%	43776 VA	**Total Est. Demand:**	906 A
Receptacle - Washing Machine	1200 VA	60.00%	720 VA		
Receptacle - Dryer	4400 VA	70.00%	3080 VA		

Notes:

Branch Panel: DH1

Location: ELECTRICAL D113
Supply From: MSB-CD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000 A
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG RM D101-106	20 A	1	1844...	3436...					3	300 A	TX-D	2
3	LTG RM D107-112	20 A	1			1844...	3406...			--	--	--	4
5	LTG RM C580, C118-119, DS40-D580, D114	20 A	1					1692...	3464...	--	--	--	6
7	FPB D105/6	15 A	1	2400...	6200...					3	40 A	AHU-D1 - Note 1	8
9	EPUH-D2	20 A	1			3300...	6200...			--	--	--	10
11	ECUH-D1	20 A	1					5000...	6200...	--	--	--	12
13	FPB D107/8	15 A	1	2400...	2107...					3	20 A	HWP-2 - Note 2	14
15	EPUH-D1	20 A	1			3300...	2107...			--	--	--	16
17	FPB D101/2	15 A	1					2400...	2107...	--	--	--	18
19	FPB D103/4	15 A	1	2400...	3880...					3	20 A	CHWP-1 - Note 2	20
21	Spare	20 A	1			0 VA	3880...			--	--	--	22
23	Spare	20 A	1					0 VA	3880...	--	--	--	24
25	Spare	20 A	1	0 VA	3880...					3	20 A	CHWP-2 - Note 2	26
27	Spare	20 A	1			0 VA	3880...			--	--	--	28
29	Spare	20 A	1					0 VA	3880...	--	--	--	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		59471 VA		58571 VA		59805 VA					
		Total Amps:		215 A		211 A		216 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	146006 VA	103.18%	150656 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	177846 VA
Lighting	5380 VA	125.00%	6725 VA	**Total Est. Demand:**	178549 VA
Receptacle - Convenience	26460 VA	80.00%	21168 VA	**Total Conn.:**	214 A
				Total Est. Demand:	215 A

Notes:
1 - 3 #8, #10 G in 3/4 C
2 - 3 #12, #12 G in 3/4 C

Branch Panel: DL1

Location: ELECTRICAL D113
Supply From: TX-D
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 A
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WS-1 RECEPT.	20 A	1	180 VA	1260...					1	20 A	RECEPT UNIT D CORRIDORS	2
3	RECEPT RM D101	20 A	1			1080...	1080...			1	20 A	RECEPT RM D103,101	4
5	RECEPT RM D106,104	20 A	1					1080...	1080...	1	20 A	RECEPT RM D107	6
7	EXT. RECEPT UNIT D - Note 1	20 A	1	1440...	1260...					1	20 A	RECEPT RM D110	8
9	RECEPT RM D106	20 A	1			1080...	900 VA			1	20 A	RECEPT RM D110	10
11	RECEPT RM D109,107	20 A	1					1080...	1260...	1	20 A	RECEPT RM D112	12
13	RECEPT RM D107	20 A	1	1260...	1260...					1	20 A	RECEPT RM D104	14
15	RECEPT RM D109	20 A	1			900 VA	900 VA			1	20 A	RECEPT RM D104	16
17	RECEPT RM D109	20 A	1					1260...	1260...	1	20 A	RECEPT RM D106	18
19	RECEPT RM D101	20 A	1	1260...	1080...					1	20 A	RECEPT RM D112	20
21	RECEPT RM D103	20 A	1			1260...	1080...			1	20 A	RECEPT RM D112,110	22
23	RECEPT RM D103	20 A	1					900 VA	1080...	1	20 A	RECEPT UNIT D CORRIDORS	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		9000 VA		8280 VA		9000 VA					
		Total Amps:		76 A		69 A		76 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle - Convenience	26280 VA	80.00%	21024 VA		
				Total Conn. Load:	26280 VA
				Total Est. Demand:	21024 VA
				Total Conn.:	73 A
				Total Est. Demand:	58 A

Notes:
1 - 2 #4, #8 G in 1-1/4 C

Branch Panel: DL2

Location: ELECTRICAL D113
Supply From: TX-D
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 A
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AHU-D1 REC/LTG	20 A	1	0 VA	0 VA					1	20 A	CHLR-1 REC/LTG	2
3	VAVs	20 A	1			600 VA	1180...			1	20 A	EF-D101	4
5	EF-D102/103	20 A	1					790 VA	856 VA	1	20 A	PUH-D1, EF-D104	6
7	GT-1 RECEPT	20 A	1	180 VA	1180...					1	20 A	B-1, B-2	8
9	IWH-D02 - Note 1	70 A	3			6000...	6000...			3	70 A	IWH-D13 - Note 1	10
11	--	--	--					6000...	6000...	--	--	--	12
13	--	--	--	6000...	6000...					--	--	--	14
15	IWH-D46 - Note 1	70 A	3			6000...	6000...			3	70 A	IWH-D79 - Note 1	16
17	--	--	--					6000...	6000...	--	--	--	18
19	--	--	--	6000...	6000...					--	--	--	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		25360 VA		25780 VA		25646 VA					
		Total Amps:		211 A		215 A		214 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	76606 VA	105.87%	81106 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	76786 VA
Receptacle - Convenience	180 VA	80.00%	144 VA	**Total Est. Demand:**	81250 VA
				Total Conn.:	213 A
				Total Est. Demand:	226 A

Notes:
1 - 3 #6, #10 G in 1-1/2 C

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N

BID DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE10800 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: ANE
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

PANELBOARD SCHEDULES - UNIT D

E-602

Branch Panel: CH1

Location: ELECTRICAL C107 | Supply From: MSB-CD | Mounting: Surface | Enclosure: Type 1
Volts: 480/277 Wye | Phases: 3 | Wires: 4
A.I.C. Rating: 14,000 A | Mains Type: MCB | Mains Rating: 400 A | MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TX-C	300 A	3	2848...	1594...					1	20 A	LTG RM C100,A,B,D	2
3	--	--	--			2971...	2664...			1	20 A	LTG RM C101	4
5	--	--	--					2822...	1852...	1	20 A	LTG RM C117, 500-560	6
7	AHU-2 - Note 2	100 A	3	1533...	1822...					1	20 A	LTG RM C111-C116	8
9	--	--	--			1533...	1986...			1	20 A	LTG RM C103-110	10
11	--	--	--					1533...	2400...	1	15 A	FPB C101/2	12
13	AFC-101 - Note 1	20 A	3	303 VA	0 VA					1	20 A	Spare	14
15	--	--	--			303 VA	2400...			1	15 A	FPB C104/5	16
17	--	--	--					303 VA	1800...	1	15 A	FPB-M104	18
19	Spare	20 A	1	0 VA	1800...					1	15 A	FPB-C108	20
21	FPB-M102	15 A	1			1200...	2400...			1	15 A	FPB C106/7	22
23	FPB-M103	15 A	1					1800...	1800...	1	15 A	FBP-M105	24
25	ECUH-C2	20 A	1	1000...	0 VA					1	20 A	Spare	26
27	ECUH-C3	20 A	1			5000...	1200...			1	15 A	FPB-M101	28
29	ECUH-C1	20 A	1					5000...	1800...	1	15 A	FPB-M106	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	59333 VA		62197 VA		60309 VA					
			Total Amps:	214 A		225 A		218 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	143720 VA	108.00%	155220 VA		
Other	120 VA	100.00%	120 VA	Total Conn. Load:	181838 VA
Lighting	9918 VA	125.00%	12398 VA	Total Est. Demand:	190202 VA
Receptacle - Convenience	28080 VA	80.00%	22464 VA	Total Conn.:	219 A
				Total Est. Demand:	229 A

Notes:
1 - 3 #12, #12 G in 3/4 C
2 - 3 #3, #8 G in 1-1/2 C

Branch Panel: KH1

Location: KITCHEN C103 | Supply From: MSB-CD | Mounting: Surface | Enclosure: Type 1
Volts: 480/277 Wye | Phases: 3 | Wires: 4
A.I.C. Rating: 10,000 A | Mains Type: MCB | Mains Rating: 200 A | MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TX-K	100 A	3	8729...	1275...					3	20 A	28.2 - EXHAUST HOOD, MUAU - Note 1	2
3	--	--	--			8729...	1275...			--	--	--	4
5	--	--	--					8628...	1275...	--	--	--	6
7	32 - TILTING SKILLET - Note 2	30 A	3	5266...	7732...					3	40 A	42 - DISHWASHER - Note 3	8
9	--	--	--			5266...	7732...			--	--	--	10
11	--	--	--					5266...	7732...	--	--	--	12
13	30 - COMBI OVEN - Note 3	40 A	3	8024...	0 VA					1	20 A	Spare	14
15	--	--	--			8024...	0 VA			1	20 A	Spare	16
17	--	--	--					8024...	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	31026 VA		31025 VA		30925 VA					
			Total Amps:	112 A		112 A		112 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	87196 VA	100.00%	87196 VA		
Receptacle - Convenience	180 VA	80.00%	144 VA	Total Conn. Load:	92976 VA
Receptacle - Washing Machine	1200 VA	60.00%	720 VA	Total Est. Demand:	91140 VA
Receptacle - Dryer	4400 VA	70.00%	3080 VA	Total Conn.:	112 A
				Total Est. Demand:	110 A

Notes:
1 - 3 #12, #12 G in 3/4 C
2 - 3 # 10, #10 G, in 3/4 C
3 - 3 # 8, #10 G, in 3/4 C

Branch Panel: CL1

Location: ELECTRICAL C107 | Supply From: TX-C | Mounting: Surface | Enclosure: Type 1
Volts: 120/208 Wye | Phases: 3 | Wires: 4
A.I.C. Rating: 65,000 A | Mains Type: MCB | Mains Rating: 200 A | MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AHU-C1 REC/LTG	20 A	1	120 VA	1080...					1	20 A	C100-101 MONITORS	2
3	RECEPT C101, 117	20 A	1			720 VA	1260...			1	20 A	RECEPT RM C108	4
5	EXT. RECEPT UNIT C NORTH - Note 1	20 A	1					1080...	1260...	1	20 A	RECEPT RM C100,A,B,C,D,102	6
7	RECEPT C500, C101	20 A	1	900 VA	900 VA					1	20 A	RECEPT RM C113,111	8
9	RECEPT RM C110	20 A	1			1260...	1260...			1	20 A	RECEPT RM C114	10
11	RECEPT RM C114	20 A	1					900 VA	900 VA	1	20 A	RECEPT RM C113	12
13	RECEPT RM C111	20 A	1	1260...	1440...					1	20 A	RECEPT RM C116	14
15	RECEPT RM C113	20 A	1			1260...	1080...			1	20 A	RECEPT RM C116	16
17	RECEPT UNIT C CORRIDORS	20 A	1					1080...	1080...	1	20 A	RECEPT RM C114,116	18
19	RECEPT RM C110	20 A	1	1080...	1080...					1	20 A	RECEPT RM C103D,107	20
21	RECEPT RM C111	20 A	1			1080...	1080...			1	20 A	RECEPT RM C108	22
23	RECEPT RM C108-110	20 A	1					1080...	1080...	1	20 A	RECEPT RM C103A,B,C, 104-106	24
25	EXT. RECEPT UNIT C SW	20 A	1	1080...	180 VA					1	20 A	MULTI RM PROJECTORS	26
27	RECEPT RM C100,101	20 A	1			1260...	150 VA			1	20 A	MULTI RM SCREENS	28
29	AV RACK RM C101	20 A	1					360 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	9120 VA		10410 VA		8820 VA					
			Total Amps:	76 A		87 A		74 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	150 VA	125.00%	188 VA		
Other	120 VA	100.00%	120 VA	Total Conn. Load:	28350 VA
Receptacle - Convenience	28080 VA	80.00%	22464 VA	Total Est. Demand:	22772 VA
				Total Conn.:	79 A
				Total Est. Demand:	63 A

Notes:
1 - 2 #4, #8 G in 1-1/4 C

Branch Panel: CL2

Location: ELECTRICAL C107 | Supply From: TX-C | Mounting: Surface | Enclosure: Type 1
Volts: 120/208 Wye | Phases: 3 | Wires: 4
A.I.C. Rating: 65,000 A | Mains Type: MCB | Mains Rating: 400 A | MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PUH-C1	20 A	1	90 VA	168 VA					1	20 A	PUH-C3/4	2
3	DWH-1	20 A	1			600 VA	6000...			3	70 A	IWH-C4,6 - Note 1	4
5	EF-C104	20 A	1					700 VA	6000...	--	--	--	6
7	PUH-C2	20 A	1	156 VA	6000...					--	--	--	8
9	Spare	20 A	1			0 VA	6000...			3	70 A	IWH-C1,3 - Note 1	10
11	Spare	20 A	1					0 VA	6000...	--	--	--	12
13	EF-C102/3	20 A	1	790 VA	6000...					--	--	--	14
15	EF-C101	20 A	1			700 VA	6000...			3	70 A	IWH-C8,0 - Note 1	16
17	EF-C106	20 A	1					700 VA	6000...	--	--	--	18
19	EF-C105	20 A	1	156 VA	6000...					--	--	--	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	19360 VA		19300 VA		19400 VA					
			Total Amps:	161 A		161 A		162 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	58060 VA	107.75%	62560 VA		
				Total Conn. Load:	58060 VA
				Total Est. Demand:	62560 VA
				Total Conn.:	161 A
				Total Est. Demand:	174 A

Notes:
1 - 3 #6, #10 G in 1-1/2 C

Branch Panel: KL1

Location: KITCHEN C103 | Supply From: TX-K | Mounting: Surface | Enclosure: Type 1
Volts: 120/208 Wye | Phases: 3 | Wires: 4
A.I.C. Rating: 42,000 A | Mains Type: MCB | Mains Rating: 200 A | MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	49 - DISPLAY CASE, REFRIGERATED	20 A	1	58 VA	480 VA					1	20 A	RECPTS	2
3	56 - PASS-THRU REFRIGERATOR	20 A	1			456 VA	552 VA			1	15 A	26 - MOBILE CABINET, HEATED	4
5	51 - SERVING COUNTER, COLD	15 A	1					420 VA	552 VA	1	15 A	26 - MOBILE CABINET, HEATED	6
7	43 - DISHWASHER EXHAUST SYSTEM	20 A	1	936 VA	1800...					1	20 A	RECPTS	8
9	28 - EXHAUST HOOD, LTG / CONTROLS	15 A	1			1440...	1440...			1	15 A	31 - CONVECTION OVEN	10
11	45 - WASHING MACHINE RECEPT.	20 A	1					1200...	760 VA	2	15 A	55 - PASS-THRU HEATED CABINET	12
13	Spare	20 A	1	0 VA	760 VA					--	--	--	14
15	16 - ISLAND WORKTABLE	20 A	1			1920...	1920...			1	20 A	54 - POS SYSTEM	16
17	45 - DRYER RECEPT.	20 A	2					2200...	2496...	2	30 A	18 - HOT WATER DISPENSER	18
19	--	--	--	2200...	2496...					--	--	--	20
21	50 - SERVING COUNTER, HOT	15 A	2			1001...	0 VA			1	20 A	Spare	22
23	--	--	--					1001...	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	8729 VA		8729 VA		8628 VA					
			Total Amps:	73 A		73 A		72 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	20306 VA	100.00%	20306 VA		
Receptacle - Convenience	180 VA	80.00%	144 VA	Total Conn. Load:	26086 VA
Receptacle - Washing Machine	1200 VA	60.00%	720 VA	Total Est. Demand:	24250 VA
Receptacle - Dryer	4400 VA	70.00%	3080 VA	Total Conn.:	72 A
				Total Est. Demand:	67 A

Notes:

NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

METROPOLITAN SCHOOL DISTRICT OF PIKE TOWNSHIP 18 92

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204

N

BID DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE STATE OF PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: ANE
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

PANELBOARD SCHEDULES - UNIT C

E-603

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NATHANIEL JONES EARLY LEARNING CENTER ADDITION & EXPANSION

7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204

Branch Panel: EMH2

Location: EMERGENCY ELECTRICAL...
Supply From: MSB-CD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000 A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EM LTG - UNIT C	20 A	1	1670...	0 VA					1	20 A	Spare	2
3	EM LTG - UNIT D	20 A	1			1045...	0 VA			1	20 A	Spare	4
5	EXTERIOR LTG	20 A	1					520 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		1670 VA		1045 VA		520 VA					
		Total Amps:		6 A		4 A		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3235 VA	125.00%	4044 VA		
				Total Conn. Load:	3235 VA
				Total Est. Demand:	4044 VA
				Total Conn.:	4 A
				Total Est. Demand:	5 A

Notes:
1 - 2 #6, #10 G in 1" C

Branch Panel: SBH2

Location: EMERGENCY ELECTRICAL...
Supply From: MSB-CD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000 A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HWP-1 - Note 1	20 A	3	2107...	0 VA					3	20 A	TX-SB	2
3	--	--	--			2107...	0 VA			--	--	--	4
5	--	--	--					2107...	0 VA	--	--	--	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		2107 VA		2107 VA		2107 VA					
		Total Amps:		8 A		8 A		8 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	6320 VA	125.00%	7900 VA		
Transformer	0 VA	0.00%	0 VA	**Total Conn. Load:**	6320 VA
				Total Est. Demand:	7900 VA
				Total Conn.:	8 A
				Total Est. Demand:	10 A

Notes:
1 - 3 #12, #12 G in 3/4" C

Branch Panel: SBL2

Location: ELECTRICAL C107
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000 A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

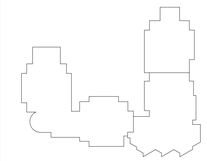
Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HWCP-1 - Note 2	20 A	1	156 VA	600 VA					1	20 A	DOOR POWER SUPPLY - UNIT C	2
3	KITCHEN WALK-IN LTG / REC	20 A	1			1920...	360 VA			1	20 A	DOOR POWER SUPPLY - UNIT D - Note 2	4
5	KITCHEN WALK-IN LTG / REC	20 A	1					1920...	360 VA	1	20 A	TECH RM C118	6
7	KITCHEN WALK-IN LTG / REC	20 A	1	1920...	360 VA					1	20 A	TECH RM C118	8
9	FREEZER COIL	20 A	2			1581...	360 VA			1	20 A	TECH RM C118	10
11	--	--	--					1581...	360 VA	1	20 A	TECH RM C118	12
13	COOLER COIL	20 A	1	120 VA	625 VA					3	20 A	3 - COOLER CONDENSER - Note 1	14
15	5 - FREEZER CONDENSER - Note 1	20 A	3			1849...	625 VA			--	--	--	16
17	--	--	--					1849...	625 VA	--	--	--	18
19	--	--	--	1849...	1180...					1	20 A	B-1 - Note 2	20
21	TEMP CONT PANEL - Note 2	20 A	1			360 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		6810 VA		7055 VA		6695 VA					
		Total Amps:		57 A		59 A		56 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1336 VA	122.08%	1631 VA		
Other	17424 VA	100.00%	17424 VA	**Total Conn. Load:**	20560 VA
Receptacle - Convenience	1800 VA	80.00%	1440 VA	**Total Est. Demand:**	20495 VA
				Total Conn.:	57 A
				Total Est. Demand:	57 A

Notes:
1 - 3 #12, #15 G in 3/4" C
2 - 2 #4, #8 G in 1-1/4" C



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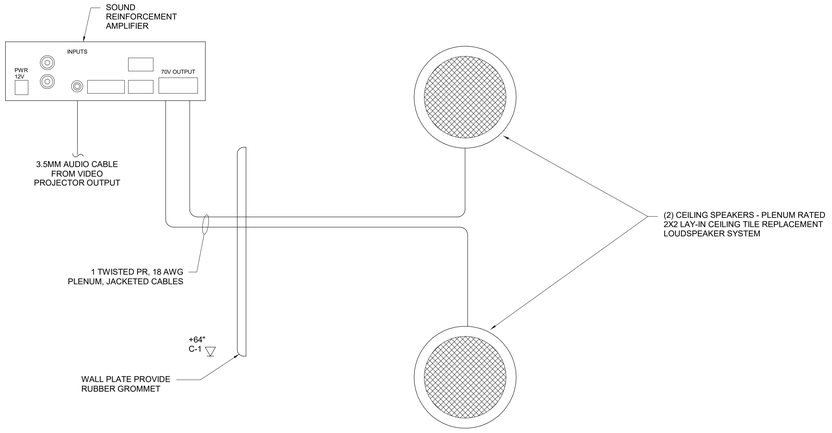
BID DOCUMENTS

PROJECT MANAGER: PW
DRAWN BY: ANE
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

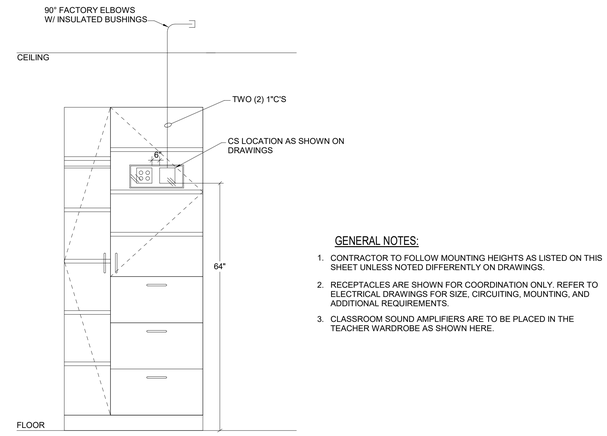
REV. NO.	DESCRIPTION	DATE
1	Addendum No. 3	03.30.26

PANELBOARD SCHEDULES - EM/SB

E-604



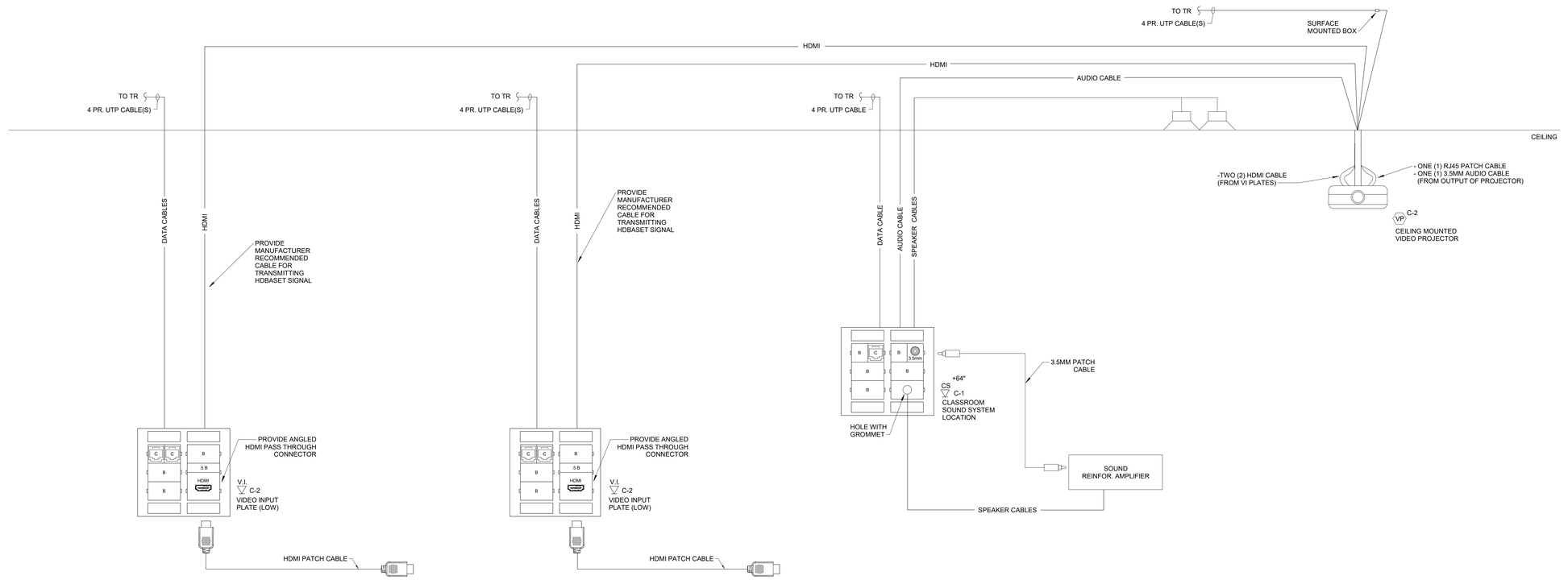
3 CLASSROOM SOUND SYSTEM DETAIL
NOT TO SCALE



2 TYPICAL CLASSROOM SOUND SYSTEM LOCATION - TEACHER'S WARDROBE
NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR TO FOLLOW MOUNTING HEIGHTS AS LISTED ON THIS SHEET UNLESS NOTED DIFFERENTLY ON DRAWINGS.
2. RECEPTACLES ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR SIZE, CIRCUITING, MOUNTING, AND ADDITIONAL REQUIREMENTS.
3. CLASSROOM SOUND AMPLIFIERS ARE TO BE PLACED IN THE TEACHER WARDROBE AS SHOWN HERE.



1 CLASSROOM AV WIRING DETAIL
NOT TO SCALE

Autodesk Docs://Nathaniel Jones ELC - Add_Renov2025_TECH_223216.00.rvt
3/30/2026 12:10:48 PM

PIKE MSD/NATHANIEL JONES ELC EXPANSION

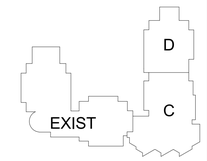
7839 NEW AUGUSTA RD,
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204



KEY PLAN N

BID DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE19930005 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: CD
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

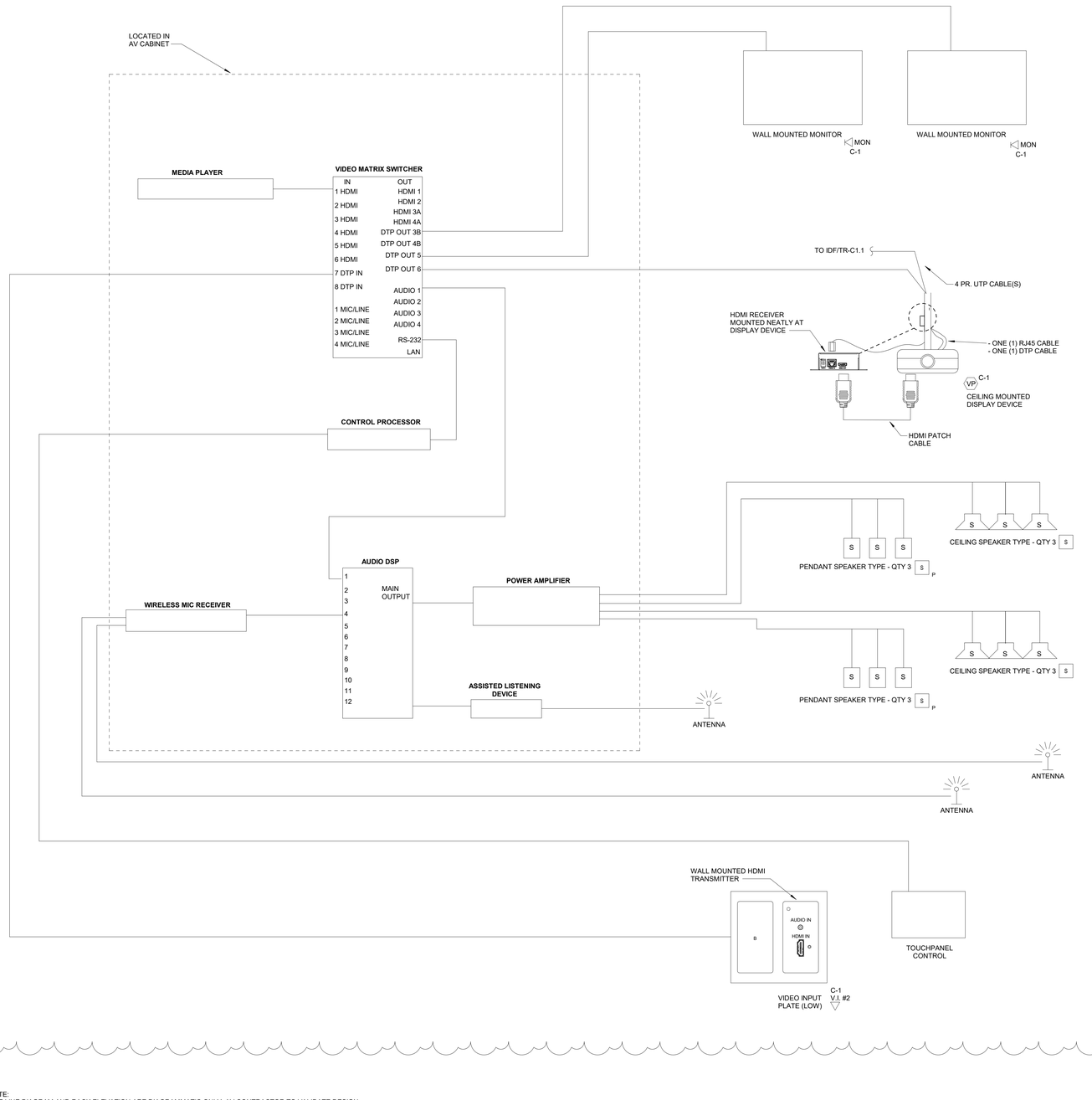
REV. NO.	DESCRIPTION	DATE
3	Addendum No. 3	03/30/2026

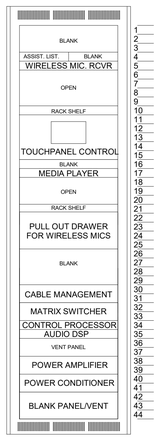
TECHNOLOGY DETAILS

T-502

LOCATED CAFETERIA / ROOM C101

EQUIPMENT LOCATED IN GYM / ROOM C100 REMOVED





AV CABINET ELEVATION

NOTE:
ONE LINE DIAGRAM AND RACK ELEVATION ARE DIAGRAMMATIC ONLY. AV CONTRACTOR TO VALIDATE DESIGN, WIRING AND CONNECTIONS PER MANUFACTURERS RECOMMENDATIONS FOR A COMPLETE AND OPERABLE SYSTEM IN FULL COMPLIANCE WITH REQUIREMENTS ON DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND USABLE WORK PER CONTRACT DOCUMENTS. ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH ALL ACCESSORIES AND ADDITIONAL WORK REQUIRED FOR FIELD CONDITIONS, AS WELL AS ADDITIONAL WORK AND ACCESSORIES REQUIRED FOR COMPLETE, USABLE, AND FULLY FUNCTIONAL CONSTRUCTION AND SYSTEMS, EVEN IF NOT EXPLICITLY SPECIFIED OR INDICATED.

1 AV FUNCTIONAL DIAGRAM - MULTIPURPOSE ROOM (GYM / CAFETERIA)

NOT TO SCALE

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PIKE MSD/NATHANIEL JONES ELC EXPANSION

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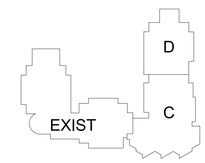

KEY PLAN N

BID DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT MANAGER: PW
DRAWN BY: CD
PROJECT NUMBER: 223216.00
PROJECT ISSUE DATE: 03-13-2026

REV. NO.	DESCRIPTION	DATE
3	Addendum No. 3	03/30/2026

TECHNOLOGY DETAILS

T-503