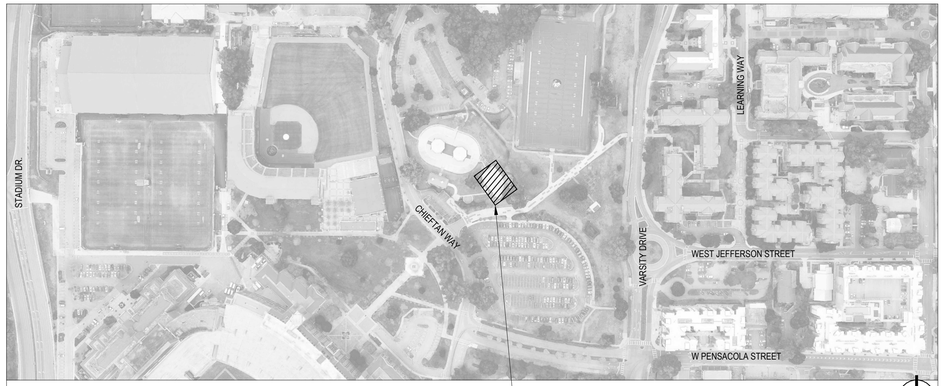
Haskin Circus Complex
0117 - Install HVAC System

Florida State University

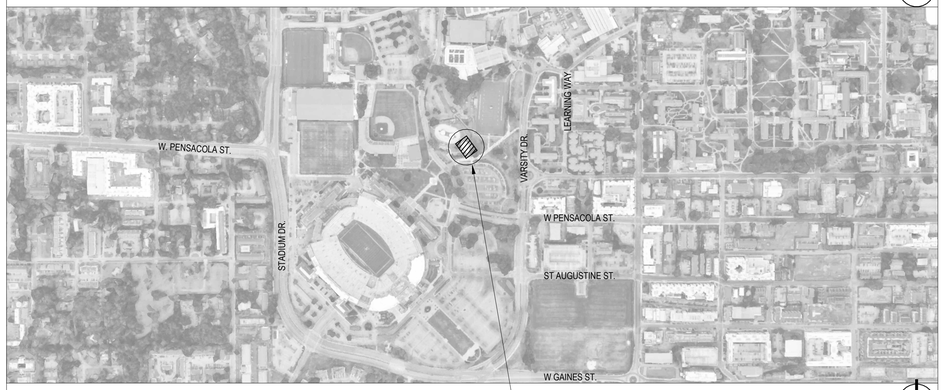
Tallahassee, Florida

19370.76

100% Construction Documents



Location Map — 269 Chieftan Way, Tallahassee, FL 32306



Area Map — Tallahassee, Florida

Consultants:

FACILITY SOLUTIONS & MANAGEMENT
Facility Solutions & Management
150 John Knox Rd
Tallahassee, FL 32303
850.222.5683
FacilitySolutionsManagement.com

Pennoni
Pennoni Engineering
1705 South Gadsden Street, Suite 100
Tallahassee, FL 32301
850-536-8140
pennoni.com

Applicable Codes:

Florida Building Code, Building (FBC-B)	8th Edition
Florida Building Code, Accessibility (FBC-A)	8th Edition
Florida Building Code, Existng Building (FBC-EB)	8th Edition
Florida Building Code, Mechanical	8th Edition
Florida Building Code, Fuel Gas	8th Edition
Florida Building Code, Plumbing	8th Edition
Florida Building Code, Energy Conservation	8th Edition
Florida Fire Prevention Code (FFPC)	8th Edition
National Electrical Code (NEC)	2023 Edition

NOTE: CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR, DOCUMENTATION NECESSARY TO VERIFY THAT ALL EXTERIOR ENVELOPE COMPONENTS REQUIRING PRODUCT APPROVAL PER FS 533.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS.

ADDITIONALLY: SHOP DRAWINGS SHALL BE SUBMITTED TO THE COT INSPECTOR FOR REVIEW

ID	Sheet Name
General	
G0	Index of Drawings, Standard Abbreviations and General Notes
G1.1	Specifications
G1.2	Specifications
G1.3	Specifications
Demolition	
D1.1	Demolition Architectural Plan
D2.1	Demolition Elevations
D3.1	Demolition Sections & Interior Photos
D3.2	Demolition Sections
Architectural Site	
AS1.1	Site Plan
Structural	
S0.1	Structural Specifications
S1.1	Structural Floor and Roof Framing Plan
S2.1	Structural Details
Architectural	
A1.1	Floor Plans
A1.2	Reflected Ceiling Plan
A2.1	Elevations
A3.1	Building Sections
A3.2	Building Sections
Mechanical	
M0.1	Mechanical Notes & Legends
M1.0D	Mehcanical Demolition Floor Plan
M1.1	HVAC Renovation Floor Plan
M6.1	HVAC Details & Schedules
Electrical	
E0.1	Electrical Notes & Legends
E0.2	Electrical Symbols
E1.0D	Electrical Demolition Floor Plan
E1.1	Electrical Power Floor Plan
E1.2	Electrical Lighting Floor Plan
E5.1	Power Details
E6.1	Electrical Schedules
E6.2	Electrical Schedules
E7.1	Electrical Grounding

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PHASE:	DRAWN:	REVIEWED:	DATE:
SCHEMATIC DESIGN	DT	R. LEWIS	
DESIGN DEVELOPMENT	DT	R. LEWIS	
50% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	05/27/2026
100% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	06/25/2026

ID:	REVISION:	DRAWN:	REVIEWED:	DATE:

FSU

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

Seal:

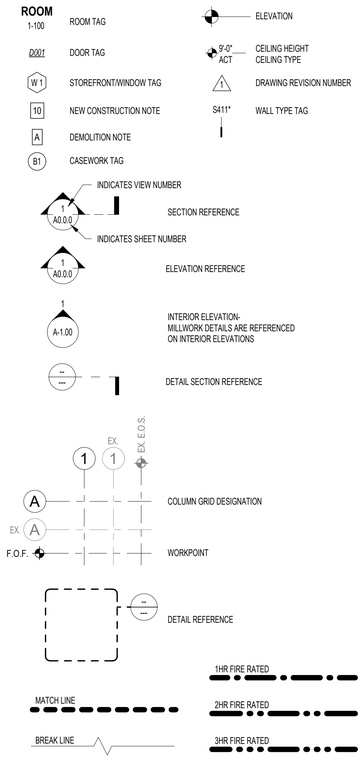
ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Index of Drawings, Standard Abbreviations and General Notes

Sheet No.:
G0

Legend of Architectural Symbols:



Architectural General Notes:

1) THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND COPIES THEREOF, INCLUDING ELECTRONIC MEDIA AND CAD FILES, ARE THE PROPERTY OF ARCHITECTS: LEWIS + WHITLOCK, P.A. THEIR USE, REPRESENTATION OR REPRODUCTION IN ACTUAL FORM OR CONTENT BY ANY ENTITY THAT POSSESSES THEM FOR ANY PURPOSE EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THE COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING, DETAIL, EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS.

2) ALL DIMENSIONS ARE TO THE FACE OF STUD OR STUD TRACK, CENTER LINE OF STUD OR STUD TRACK, FACE OF MASONRY AND TO THE CENTER LINE OF STRUCTURAL STEEL COLUMNS, UNLESS OTHERWISE INDICATED.

3) WHERE STRUCTURAL DESIGN LOADS ARE NOT PROVIDED FOR ANY COMPONENTS REQUIRING MANUFACTURER OR FABRICATOR ENGINEERING, AND MINIMUM LOADING CONDITIONS ARE NOT PROVIDED IN APPLICABLE CODES AND STANDARDS, CONSULT ARCHITECT PRIOR TO PROCEEDING.

4) DIMENSIONS FOR PATHS OF EGREES INCLUDING CORRIDORS AND STAIRS SHALL MEAN CLEAR WIDTH BETWEEN CORRIDOR WALLS, AND AT STAIRS CLEAR WIDTH BETWEEN WALLS OR CURBS.

5) DO NOT SCALE DRAWINGS, IF THERE IS A CONFLICT IN DIMENSIONS OR IF THERE IS INSUFFICIENT DIMENSIONING, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.

6) IF AN ORDER OF PRECEDENT FOR THE INTERPRETATION OF DOCUMENTS IS NOT PROVIDED IN THE PROJECT MANUAL (IF PROVIDED), AND A CONFLICT OCCURS IN THE SPECIFICATIONS, ON THE DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, CONTACT THE ARCHITECT. ALL REQUEST FOR CLARIFICATION TO THE ARCHITECT SHALL BE MADE IN WRITING.
THE ARCHITECT'S RESPONSE SHALL BE MADE IN WRITING AND NO FORMAL INSTRUCTIONS SHALL BE GIVEN VERBALLY.

7) WHERE CLEAR DIMENSIONS ARE INDICATED, THIS SHALL MEAN CLEAR WIDTH FROM FINISHED WALL TO FINISHED WALL OR CLEAR FLOOR AREA BETWEEN BUILDING COMPONENTS.

8) ALL FIRE RATED PARTITION OR WALL ASSEMBLIES SHALL EXTEND FROM THE FLOOR SLAB TO THE UNDERSIDE OF THE BUILDING STRUCTURE AND/OR DECK ABOVE. ALL PENETRATIONS IN RATED CONSTRUCTION SHALL BE PROPERLY SEALED TO INSURE THE RATING IS MAINTAINED.

9) ALL FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES SHALL BE CONTINUOUS BETWEEN PARTITIONS AND/OR WALLS FOR THE SPACE OR HORIZONTAL AREA INDICATED. ALL PENETRATIONS IN RATED CONSTRUCTION SHALL BE PROPERLY SEALED TO INSURE THE RATING IS MAINTAINED.

10) TYPICAL AND STANDARD DETAILS MAY BE PROVIDED IN THE DRAWINGS. IF A SPECIFIC DETAIL IS NOT PROVIDED FOR CONDITION OF FABRICATION AND/OR INSTALLATION, CONTACT THE ARCHITECT PRIOR TO PROCEEDING.

11) THE INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL ITEMS (INCLUDING UTILITIES, ROUGH-INS, SYSTEM COMPONENTS AND FINISHED FIXTURES) IN EXPOSED TO VIEW AREAS OR SPACES SHALL BE UNDERTAKEN WITH SKILL AND CRAFTMANSHIP TO PROVIDE A FINISHED CONDITION ACCEPTABLE TO THE ARCHITECT. ALL EXPOSED TO VIEW ITEMS SHALL BE FINISHED WITH PAINT UNLESS OTHERWISE SPECIFIED TO BE PREFINISHED OR NOT TO BE PAINTED.

12) THESE GENERAL NOTES HAVE THE SAME AUTHORITY AS OTHER NOTES AND REFERENCES IN THE DRAWINGS OR SPECIFICATIONS AND SHALL NOT BE EXCLUDED IN THE EXECUTION OF THE WORK. THEY MAY REQUIRE COORDINATION BETWEEN VARIOUS TRADE CONTRACTORS. IN ADDITION TO THESE GENERAL NOTES, REFER TO DEMOLITION AND CONSTRUCTION NOTES SPECIFIC TO EACH DRAWING.

13) THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL REASONABLE SAFEGUARDS FOR SAFETY AND HEALTH, INCLUDING REQUIRED SIGNAGE, SHORING, AND ACCESS SAFETY.

14) THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF MATERIALS

15) THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK PREMISE AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS DAILY. THE WORK PREMISE SHALL BE CLEAN AT COMPLETION OF JOB AND BEFORE FINAL PAYMENT IS MADE.

16) THE CONTRACTOR SHALL TAKE CARE NOT DAMAGE EXISTING SURFACES AND SHALL BE RESPONSIBLE FOR RESTORING AREAS DAMAGED BY THE CONTRACTOR (MATERIALS, FINISHES, ETC.) TO THEIR ORIGINAL CONDITIONS. SURFACES SHALL BE REPAINTED TO MATCH EXISTING ADJACENT FINISHES.

Standard Abbreviations:

A/C	-AIR CONDITIONING
ACI	-AMERICAN CONCRETE INSTITUTE
ACT	-ACOUSTICAL CEILING TILE
ADJ	-ADJACENT
AFF	-ABOVE FINISH FLOOR
ALT	-ALTERNATE
ALUM	-ALUMINUM
ASTM	-AMERICAN SOCIETY OF TSTG. & MTLS.
BD	-BOARD
BLDG	-BUILDING
BLT	-BOLT
BM	-BEAM
BOT	-BOTTOM
BRG	-BEARING
C/C	-CENTER TO CENTER
CEM	-CEMENT
CF	-CUBIC FEET
CFM	-CUBIC FEET PER MINUTE
CG	-CORNER GUARD
CIR	-CIRCLE, CIRCULAR
CIP	-CAST-IN-PLACE
CJ	-CONTROL JOINT
CLG	-CEILING
CLO	-CLOSET
CLR	-CLEARANCE, CLEAR
CMU	-CONCRETE MASONRY UNIT
COL	-COLUMN
COMP	-COMPRESSOR, COMPOSITE
CONC	-CONCRETE
CONSTR	-CONSTRUCTION
CONT	-CONTINUOUS
CORR	-CORRUGATED
CS	-COUNTERSINK
CTR	-CENTER
DBL	-DOUBLE
DEFS	-DIRECT APPLIED EXT FINISH SYSTEM
DEG	-DEGREES
DTL	-DETAIL
DF	-DRINKING FOUNTAIN
DIA	-DIAMETER
DIM	-DIMENSION
DN	-DOWN
DS	-DOWNSPOUT
DTL	-DETAIL
DWG	-DRAWING
EA	-EACH
EJ	-EXPANSION JOINT
ELEC	-ELECTRICAL
ELEV	-ELEVATOR, ELEVATION
ENCL	-ENCLOSURE
EOS	-EDGE OF SLAB
EQ	-EQUAL
EQUIP	-EQUIPMENT
EWC	-ELECTRICAL WATERCOOLER
EXH	-EXHAUST
EX	-EXISTING
EXT	-EXTERIOR
FD	-FLOOR DRAIN
FEB	-FIRE EXTINGUISHER W/ BRACKET
FEC	-FIRE EXTINGUISHER IN CABINET
FF	-FINISH FLOOR
FHC	-FIRE HOSE CABINET
FIN	-FINISH
FL	-FLOOR
FLG	-FLASHING
FOF	-FACE OF FRAMING
FT	-FOOT OR FEET
FTG	-FOOTING
GA	-GAUGE
GALV	-GALVANIZED
GEN	-GENERAL
GND	-GROUND
GWB	-GYPSUM WALLBOARD
GYP	-GYPSUM
HC	-HANDICAPPED ACCESSIBLE
HDR	-HEADER
HDRL	-HANDRAIL
HM	-HOLLOW METAL
HORZ	-HORIZONTAL
HGT	-HEIGHT
ID	-INSIDE DIAMETER (DIM.)
IN	-INCHES
INSUL	-INSULATION
INT	-INTERIOR
JAN	-JANITOR
JB	-JAMB
JT	-JOINT
K	-KIPS (KILO POUND OR 1000LBS.)
KD	-KILN DRIED
L	-STEEL ANGLE, LENGTH
LAM	-LAMINATED
LAV	-LAVATORY
LBS	-POUNDS
LH	-LEFT HAND
LL	-LIVE LOAD
LLH	-LONG LEG HORIZONTAL
LLV	-LONG LEG VERTICAL
LTL	-LINTEL
LTWT	-LIGHTWEIGHT
LVR	-LOUVER
M	-METER
MATL	-MATERIAL
MAX	-MAXIMUM
MC	-MEDICINE CABINET
MECH	-MECHANICAL
MTL	-METAL
MEZZ	-MEZZANINE
MFR	-MANUFACTURER
MIN	-MINIMUM
MISC	-MISCELLANEOUS
MK	-MARK
MO	-MASONRY OPENING
MTD	-MOUNTED
MULL	-MULLION
N	-NORTH
NA	-NOT APPLICABLE
NIC	-NOT IN CONTRACT
NOM	-NOMINAL
NS	-NON SHRINK
NTS	-NOT TO SCALE
OA	-OVERALL
OC	-ON CENTER
OD	-OUTSIDE DIAMETER
OH	-OVERHEAD
OPP	-OPPOSITE
OPPH	-OPPOSITE HAND
PCF	-POUNDS PER CUBIC FOOT
PKG	-PARKING
PL	-PLATE
PLAM	-PLASTIC LAMINATE
PLYWD	-PLYWOOD
PNL	-PANEL
PR	-PAIR
PREFAB	-PREFABRICATED
PREP	-PREPARATION
PSF	-POUNDS PER SQUARE FOOT
PSI	-POUNDS PER SQUARE INCH
PT	-POINT
PTD	-PAINTED
PVC	-POLYVINYL CHLORIDE
PVMT	-PAVEMENT
QC	-QUALITY CONTROL
QT	-QUARRY TILE
REF	-REFERENCE
REINF	-REINFORCED, REINFORCEMENT
REQD	-REQUIRED
REV	-REVISION
RH	-RIGHT HAND
RM	-ROOM
RO	-ROUGH OPENING
SAN	-SANITARY
SC	-SOLID CORE
SECT	-SECTION
SEW	-SEWER
SF	-SQUARE FEET
SGL	-SINGLE
SIM	-SIMILAR
SJ	-SAWED JOINT
SPKLR	-SPRINKLER
SQ	-SQUARE
SST	-STAINLESS STEEL
STA	-STAINED
STD	-STANDARD
STL	-STEEL
STOR	-STORAGE
STRUCT	-STRUCTURAL
SUSP	-SUSPENDED
TBD	-TO BE DETERMINED
TEL	-TELEPHONE
TEMP	-TEMPORARY, TEMPERATURE
T&G	-TONGUE & GROOVE
THK	-THICK
TOB	-TOP OF BEAM
TOC	-TOP OF CONCRETE
TOF	-TOP OF FOOTING
TOS	-TOP OF STEEL
TRTD	-PRESSURE TREATED
TS	-STRUCTURAL TUBE STEEL
TV	-TELEVISION
TYP	-TYPICAL
UNF	-UNFINISHED
UNO	-UNLESS NOTED OTHERWISE
UR	-URINAL
VCT	-VINYL COMPOSITION TILE
VB	-VAPOR BARRIER
VERT	-VERTICAL
VEST	-VESTIBULE
VFY	-VERIFY
VOL	-VOLUME
VT	-VINYL TILE
W/	-WITH
W/C	-WATER CLOSET
WD	-WOOD
W/O	-WITHOUT
WP	-WATERPROOF, WORKING POINT
WWF	-WELDED WIRE FABRIC

Index of Drawings:

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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 011000
SUMMARY

PART 1 GENERAL

1.1 PROJECT

A. Project Name: Haskin Circus Complex 0117 - Install HVAC System

B. Owner's Name: Florida State University.

C. Engineer's Name: FSM Engineering

D. Architect's Name: Architects Lewis + Whitlock.

E. Project scope includes HVAC installation and thermal insulation improvements to the existing Haskins Circus Complex Metal Building located at 269 Chieftan Way in Tallahassee FL.

1.2 CONTRACTOR USE OF SITE AND PREMISES

A. Construction Operations: Limited to areas noted on Drawings.
1. Locate and conduct construction activities in ways that will limit disturbance to site.

B. Arrange use of site and premises to allow:
1. Work by Owner.

C. Provide access to and from site as required by law and by Owner:
1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
2. Do not obstruct roadways, sidewalks, or other public ways without permit.

D. Utility Outages and Shutdown:
1. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
2. Prevent accidental disruption of utility services to other facilities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 012500
SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Procedural requirements for proposed substitutions.

1.2 RELATED REQUIREMENTS

A. Section 013000 - Administrative Requirements: Submittal procedures, coordination.

B. Section 016000 - Product Requirements: Fundamental product requirements, product options, delivery, storage, and handling.

1.3 DEFINITIONS

A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
2. Agrees to provide the same warranty for the substitution as for the specified product.
3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
5. Waives claims for additional costs or time extension that may subsequently become apparent.
6. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.

B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
1. Note explicitly any non-compliant characteristics.

C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
1. No specific form is required. Contractor's Substitution Request documentation must include the following:
   a. Project Information:
      1) Official project name and number, and any additional required identifiers established in Contract Documents.
   b. Substitution Request Information:
      1) Discrete and consecutive Substitution Request number, and descriptive subject/title.
      2) Indication of whether the substitution is for cause or convenience.
      3) Issue date.
      4) Reference to particular Contract Document(s) specification section number, title, and article/paragraph(s).
      5) Description of Substitution.
      6) Reason why the specified item cannot be provided.
      7) Differences between proposed substitution and specified item.
      8) Description of how proposed substitution affects other parts of work.
   c. Attached Comparative Data: Provide point-by-point, side-by-side comparison addressing essential attributes specified, as appropriate and relevant for the item:
      1) Physical characteristics.
      2) In-service performance.
      3) Expected durability.
      4) Visual effect.
      5) Sustainable design features.
      6) Warranties.
      7) Other salient features and requirements.
   d. Impact of Substitution:
      1) Savings to Owner for accepting substitution.
      2) Change to Contract Time due to accepting substitution.

D. Limit each request to a single proposed substitution item.
1. Submit an electronic document, combining the request form with supporting data into single document.

3.2 SUBSTITUTION PROCEDURES DURING PROCUREMENT

A. Owner / Architect will consider requests for substitutions only if submitted at least 10 days prior to the date for receipt of bids.

3.3 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

A. Submit request for Substitution for Cause immediately upon discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.

B. Substitutions will not be considered under one or more of the following circumstances:
1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
2. Without a separate written request.
3. When acceptance will require revisions to the Contract Documents.

3.4 RESOLUTION

A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.

B. Architect will notify Contractor in writing of decision to accept or reject request.
1. Architect's decision following review of proposed substitution will be noted on the submitted form.

3.5 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

END OF SECTION

SECTION 014000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Testing and inspection agencies and services.

B. Control of installation.

C. Mock-ups.

D. Tolerances.

E. Manufacturers' field services.

F. Defect Assessment.

1.2 REFERENCE STANDARDS

A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2023).

B. ASTM C1077 - Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation; 2026.

C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2025.

D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2023.

E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection; 2025b.

F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2026.

1.3 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Contractor shall employ and pay for services of an independent testing agency to perform other specified testing.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

C. Contractor Employed Agency:
1. Testing agency: Comply with requirements of ASTM E329, ASTM E543, ASTM C1021, ASTM C1077, ASTM C1093, and ASTM D3740.
2. Laboratory: Authorized to operate in Florida.

PART 3 EXECUTION

2.1 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

2.2 MOCK-UPS

A. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections.

B. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.

C. Architect will use accepted mock-ups as a comparison standard for the remaining Work.

D. Where mock-up has been accepted by Architect and is specified in product specification sections to be removed, protect mock-up throughout construction, remove mock-up and clear area when directed to do so by Architect.

2.3 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.

C. Adjust products to appropriate dimensions; position before securing products in place.

2.4 TESTING AND INSPECTION

A. Testing Agency Duties:
1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
2. Perform specified sampling and testing of products in accordance with specified standards.
3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
4. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
5. Perform additional tests and inspections required by Architect.
6. Submit reports of all tests/inspections specified.

B. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work.
3. Agency may not assume any duties of Contractor.
4. Agency has no authority to stop the Work.

C. Contractor Responsibilities:
1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
3. Provide incidental labor and facilities:
   a. To provide access to Work to be tested/inspected.
   b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
   c. To facilitate tests/inspections.
   d. To provide storage and curing of test samples.
4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

D. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.

E. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

2.5 MANUFACTURERS' FIELD SERVICES

A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance equipment as applicable, and to initiate instructions when necessary.

B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

2.6 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.

END OF SECTION

SECTION 016000
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. General product requirements.

B. Sustainable design-related product requirements.

C. Re-use of existing products.

D. Transportation, handling, storage and protection.

E. Product option requirements.

F. Substitution limitations.

G. Maintenance materials, including extra materials, spare parts, tools, and software.

1.2 RELATED REQUIREMENTS

A. Section 012500 - Substitution Procedures: Substitutions made during procurement and/or construction phases.

B. Section 013329.02 - Sustainable Design Reporting - LEED v4: Reporting requirements.

C. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions: Requirements for VOC-restricted product categories.

D. Section 017419 - Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and substitutions.

1.3 REFERENCE STANDARDS

A. C2C (DIR) - C2C Certified Products Registry; Cradle to Cradle Products Innovation Institute; Current Edition.

B. EN 15804 - Sustainability of Construction Works - Environmental Product Declarations - Core Rules for the Product Category of Construction Products; 2022 (Corrigendum 2021).

C. GreenScreen (LIST) - GreenScreen for Safer Chemicals List Translator; Clean Production Action; Current Edition.

D. GreenScreen (METH) - GreenScreen for Safer Chemicals Method v1.2; Clean Production Action; Current Edition.

E. ISO 14025 - Environmental Labels and Declarations - Type III Environmental Declarations - Principles and Procedures; 2006.

F. ISO 14040 - Environmental Management - Life Cycle Assessment - Principles and Framework; 2006, with Amendment (2020).

G. ISO 14044 - Environmental Management - Life Cycle Assessment - Requirements and Guidelines; 2006, with Amendment (2020).

H. ISO 21930 - Sustainability in Buildings and Civil Engineering Works — Core Rules for Environmental Product Declarations of Construction Products and Services; 2017.

1.4 SUBMITTALS

A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

D. Sustainable Design Submittals: Items necessary to document use of sustainable construction materials, products, and practices.
1. See Section 013329.02 for Contractor's reporting necessary for achievement of targeted LEED v4 certification level.

1.5 QUALITY ASSURANCE

A. Chain-of-Custody (COC): A procedure that tracks a product from the point of harvest or extraction to its end use, including successive stages of processing, transformation, manufacturing, and distribution.

B. Chain-of-Custody Certificates: Certificates signed by manufacturers and fabricators certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001.

C. Composite Wood and Agrifiber: Products made of wood particles and/or plant material pressed and bonded with adhesive or resin such as particleboard, medium density fiberboard (MDF), plywood, wheatboard, strawboard, panel substrates, and door cores.

D. Corporate Sustainability Report: A third-party verified report that outlines the environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain.

E. Cradle-to-Cradle Certified: End use product certified Cradle-to-Cradle v2 Basic or Cradle-to-Cradle v3 Bronze, minimum, as evidenced by C2C (DIR).

F. Environmental Product Declaration (EPD): Publicly available, critically reviewed life cycle analysis having at least a cradle-to-gate scope.
1. Good: Product-specific; compliant with ISO 14044.
2. Better: Industry-wide, generic; compliant with ISO 21930, or with ISO 14044, ISO 14040, ISO 14025, and EN 15804; Type III third-party certification with external verification, in which the manufacturer is recognized as the program operator.
3. Best: Commercial-product-specific; compliant with ISO 21930, or with ISO 14044, ISO 14040, ISO 14025, and EN 15804; Type III third-party certification with external verification, in which the manufacturer is recognized as the program operator.
4. Where demonstration of impact reduction below industry average is required, submit both industry-wide and commercial-product-specific declarations; or submit at least 5 declarations for products of the same type by other manufacturers in the same industry.

G. GreenScreen Chemical Hazard Analysis: Ingredients of 100 parts-per-million or greater evaluated using GreenScreen (METH).
1. Good: GreenScreen (LIST) evaluation to identify Benchmark 1 hazards; a Health Product Declaration includes this information.
2. Better: GreenScreen Full Assessment.
3. Best: GreenScreen Full Assessment by GreenScreen Licensed Profiler.
4. Acceptable Evidence: GreenScreen report.

H. Health Product Declarations (HPD): Complete, published declaration with full disclosure of known hazards, prepared using one of the HPDC (HPD-OLT) online tools.

I. Leadership Extraction Practices: Products that meet at least one of the responsible extraction criteria, which include: extended producer responsibility; bio-based materials; FSC wood products; materials reuse; recycled content; and other programs approved by sustainability certification system used for the project.

J. Manufacturer's Inventory of Product Content: Publicly available inventory of every ingredient identified by name and Chemical Abstract Service Registration Number (CAS RN).
1. For ingredients considered a trade secret or intellectual property, the name and CAS RN may be omitted, provided the ingredient's role, amount, and GreenScreen Benchmark are given.

K. Rapidly Renewable Materials: Made from agricultural products that are typically harvested within a 10-year or shorter cycle.

L. Regional Materials: Materials that are extracted, harvested, recovered, and manufactured within a radius of 100 miles (160.9 Km) from the Project site.

M. Reused Products: Materials and equipment previously used in this or other construction, salvaged and refurbished as specified.
1. Wood fabricated from timber abandoned in transit after harvesting is considered reused, not recycled.
2. Acceptable Evidence: Information about the origin or source, from Contractor or supplier.

N. Source Location: Location of harvest, extraction, recovery, or manufacture; where information about source location is required to be submitted, give the postal address:
1. In every case, indicate the location of final assembly.
2. For harvested products, indicate location of harvest.
3. For extracted (i.e. mined) products, indicate location of extraction.
4. For recovered products, indicate location of recovery.
5. For products involving multiple manufacturing steps, provide a description of the process at each step, with location.
6. Acceptable Evidence:
   a. Manufacturer's certification.
   b. Life cycle analysis (LCA) performed by third-party.

O. Sustainably Harvested Wood: Solid wood, wood chips, and wood fiber certified or labeled by an organization accredited by one of the following:
1. The Forest Stewardship Council, The Principles for Natural Forest Management; for Canada visit http://www.fsccanada.org, for the USA visit http://www.fscus.org.
2. Acceptable Evidence: Copies of invoices bearing the certifying organization's certification numbers.

PART 2 PRODUCTS

2.1 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.

B. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.

2.2 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by the Contract Documents.

B. All new exterior envelope products must be Florida Product Approved. Provide Notice of Acceptance documentation with submittals.

C. Use of products having any of the following characteristics is not permitted:
1. Made using or containing CFC's or HCFC's.
2. Made of wood from newly cut old growth timber.
3. Containing lead, cadmium, or asbestos.

D. Where other criteria are met, Contractor shall give preference to products that:
1. If used on interior, have lower emissions, as defined in Section 016116.
2. If wet-applied, have lower VOC content, as defined in Section 016116.
3. Are extracted, harvested, and/or manufactured closer to the location of the project.
4. Have longer documented life span under normal use.
5. Result in less construction waste. See Section 017419
6. Are made of recycled materials.
7. If made of wood, are made of sustainably harvested wood, wood chips, or wood fiber.
8. If bio-based, other than wood, are or are made of Sustainable Agriculture Network certified products.
9. Are Cradle-to-Cradle Certified.
10. Have a published Environmental Product Declaration (EPD).
11. Have a published Health Product Declaration (HPD).

2.3 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.4 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.1 SUBSTITUTION LIMITATIONS

A. See Section 012500 - Substitution Procedures.

3.2 TRANSPORTATION AND HANDLING

A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

D. Transport and handle products in accordance with manufacturer's instructions.

E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.3 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 017419.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.

E. For exterior storage of fabricated products, place on sloped supports above ground.

F. Provide off-site storage and protection when site does not permit on-site storage or protection.

G. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

H. Comply with manufacturer's warranty conditions, if any.

I. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

J. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

K. Prevent contact with material that may cause corrosion, discoloration, or staining.

L. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

M. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

SECTION 016116
VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Requirements for Indoor-Emissions-Restricted products.

B. Requirements for VOC-Content-Restricted products.

C. Requirement for installer certification that they did not use any non-compliant products.

1.2 RELATED REQUIREMENTS

A. Section 013000 - Administrative Requirements: Submittal procedures.

1.3 DEFINITIONS

A. Indoor-Emissions-Restricted Products: All products in the following product categories, whether specified or not:
1. Interior paints and coatings applied on site.
2. Interior adhesives and sealants applied on site, including flooring adhesives.
3. Flooring.
4. Composite wood.
5. Products making up wall and ceiling assemblies.
6. Thermal and acoustical insulation.
7. Free-standing furniture.
8. Other products when specifically stated in the specifications.

B. VOC-Content-Restricted Products: All products in the following product categories, whether specified or not:
1. Interior paints and coatings applied on site.
2. Interior adhesives and sealants applied on site, including flooring adhesives.

C. Interior of Building: Anywhere inside the exterior weather barrier.

D. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.

E. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.

F. Inherently Non-Emitting Materials: Products composed wholly of minerals or metals, unless they include organic-based surface coatings, binders, or sealants; and specifically the following:
1. Concrete.
2. Clay brick.
3. Metals that are plated, anodized, or powder-coated.
4. Glass.
5. Ceramics.
6. Solid wood flooring that is unfinished and untreated.

1.4 REFERENCE STANDARDS

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; current edition.

B. ASTM D3960 - Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings; 2025.

C. BIFMA e3 - Furniture Sustainability Standard; 2024.

D. CARB (ATCM) - Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products; Current Edition.

E. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board; 2020.

F. CHPS (HPPD) - High Performance Products Database; Current Edition.

G. CRI (GLP) - Green Label Plus Testing Program - Certified Products; www.carpet-rug.org; current edition.

H. SCAQMD 1113 - Architectural Coatings; 1977, with Amendment (2016).

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PHASE:	DRAWN:	REVIEWED:	DATE:	ID:	REVISION:	DRAWN:	REVIEWED:	DATE:
SCHEMATIC DESIGN	DT	R. LEWIS						
DESIGN DEVELOPMENT	DT	R. LEWIS						
50% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	05/27/2026					
100% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	06/25/2026					

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System

Tallahassee, Florida

Consultant:

Project #: 19370.76

Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description: Specifications

Sheet No.: G1.1

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I. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition.

J. SCS (CPD) - SCS Certified Products; Current Edition.

K. UL (GGG) - GREENGUARD Gold Certified Products; Current Edition.

1.5 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.

C. Installer Certifications Regarding Prohibited Content: Require each installer of any type of product (not just the products for which VOC restrictions are specified) to certify that either 1) no adhesives, joint sealants, paints, coatings, or composite wood or agrifiber products have been used in the installation of installer's products, or 2) that such products used comply with these requirements.

1.6 QUALITY ASSURANCE

1. Wet-Applied Products: State amount applied in mass per surface area.
2. Paints and Coatings: Test tinted products, not just tinting bases.
   a. Current UL (GGG) certification.
   b. Current SCS (CPD) Floorscore certification.
   c. Current SCS (CPD) Indoor Advantage Gold certification.
   d. Current CRI (GLP) certification.
   e. Test report showing compliance and stating exposure scenario used.
3. Manufacturer's certification without test report by independent agency is NOT acceptable evidence.

B. VOC Content Test Method: 40 CFR 59, Subpart D (EPA Method 24), or ASTM D3960, unless otherwise indicated.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Report of laboratory testing performed in accordance with requirements.

C. Composite Wood Emissions Standard: CARB (ATCM) for ultra-low emitting formaldehyde (ULEF) resins.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Current SCS "No Added Formaldehyde (NAF)" certification; www.scscertified.com.
   b. Report of laboratory testing performed in accordance with requirements.
   c. Published product data showing compliance with requirements.

D. Furnishings Emissions Standard and Test Method: BIFMA e3 Sections 7.6.1 and 7.6.2, tested in accordance with BIFMA M7.1.
1. Evidence of Compliance:
   a. Test report showing compliance and stating exposure scenario used.

E. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

PART 2 PRODUCTS

2.1 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.
1. Composite Wood, Wood Fiber, and Wood Chip Products: Comply with Composite Wood Emissions Standard or contain no added formaldehyde resins.
2. Furnishings: Comply with Furnishings Emissions Standard and Test Method.
3. Inherently Non-Emitting Materials.

B. VOC-Content-Restricted Products: VOC content not greater than required by the following:
1. Adhesives, Including Flooring Adhesives: SCAQMD 1168 Rule.
2. Joint Sealants: SCAQMD 1168 Rule.
3. Paints and Coatings: Each color; most stringent of the following:
   a. 40 CFR 59, Subpart D.
   b. SCAQMD 1113 Rule.
   c. CARB (SCM).

PART 3 EXECUTION

3.1 FIELD QUALITY CONTROL

A. Owner reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Owner.

B. Additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION

SECTION 017610
TEMPORARY PROTECTIVE COVERINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Temporary protective coverings for installed walls and other surfaces.

1.2 RELATED REQUIREMENTS

A. Section 017000 - Execution and Closeout Requirements: Coordination of requirements for materials specified in this section.

PART 2 PRODUCTS

2.1 GENERAL

A. Provide materials that are easily removed without damage to the surfaces covered and with the following characteristics:
1. Water resistant.

PART 3 EXECUTION

3.1 PREPARATION

A. Remove dirt and debris from surfaces to be protected.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions.

END OF SECTION

DIVISION 02 - EXISTING CONDITIONS

SECTION 024100
DEMOLITION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Selective demolition of building elements for alteration purposes.

1.2 REFERENCE STANDARDS

A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.

B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.

1.3 SUBMITTALS

A. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

PART 2 PRODUCTS

PART 3 EXECUTION

3.1 SCOPE

A. Remove portions of the existing metal building as indicated in the drawings.

3.2 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
1. Obtain required permits.
2. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
3. Provide, erect, and maintain temporary barriers and security devices.
4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.

B. Do not begin removal until receipt of notification to proceed from Owner.

C. Protect existing structures and other elements that are not to be removed.
1. Provide bracing and shoring.
2. Prevent movement or settlement of adjacent structures.
3. Stop work immediately if adjacent structures appear to be in danger.

D. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

E. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.

3.3 EXISTING UTILITIES

A. Protect existing utilities to remain from damage.

B. Do not disrupt public utilities without permit from authority having jurisdiction.

C. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.

3.4 SELECTIVE DEMOLITION FOR ALTERATIONS

A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
1. Verify that construction and utility arrangements are as indicated.
2. Report discrepancies to Architect before disturbing existing installation.
3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.

B. Separate areas in which demolition is being conducted from other areas that are still occupied.
1. Provide, erect, and maintain temporary dustproof partitions of construction _____ in locations indicated on drawings.

C. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove existing systems and equipment as indicated.
1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
3. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.

D. Protect existing work to remain.
1. Perform cutting to accomplish removals neatly and as specified for cutting new work.
2. Repair adjacent construction and finishes damaged during removal work.
3. Patch as specified for patching new work.

3.5 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

B. Leave site in clean condition, ready for subsequent work.

C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

DIVISION 05 - METALS

SECTION 054000
COLD-FORMED METAL FRAMING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Non-Structural formed steel stud exterior wall framing.

1.2 REFERENCE STANDARDS

A. AISI S100 - North American Specification for the Design of Cold-Formed Steel Structural Members; 2016, with Supplement (2018).

B. AISI S240 - North American Standard for Cold-Formed Steel Structural Framing; 2015, with Errata (2020).

C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

D. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.

E. ASTM A780/A780M - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings; 2020.

F. ASTM A1003/A1003M - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members; 2015.

G. ASTM C1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories; 2020.

H. ICC (IBC) - International Building Code; 2015.

I. PS 1 - Structural Plywood; 2009.

1.3 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on cold-formed steel structural members; include material descriptions and base steel thickness.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Non-Structural Framing:
1. CEMCO: www.cemcosteel.com/#sle.
2. ClarkDietrich: www.clarkdietrich.com/#sle.
3. Steel Construction Systems: www.steelconsystems.com/#sle.

B. Connectors:
1. Same manufacturer as metal framing.

2.2 PERFORMANCE REQUIREMENTS

A. Design Requirements: Design cold-formed framing systems, components and connectors to withstand specified design loads in compliance with ICC (IBC), ASCE 7, AISI S100, and AISI S240.

B. Design Criteria: In accordance with applicable codes.
1. Able to tolerate movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
2. Able to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

2.3 MATERIALS

A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S240.

2.4 NON-STRUCTURAL FRAMING COMPONENTS

A. Wall Studs and Track Sections: AISI S240; c-shaped studs and u-shaped track sections in stud-matching nominal width and compatible height.
1. Thickness and Depth: Depth as indicated on the drawings; thickness and structural grade as required to meet design criteria.

B. Jamb Studs: AISI S240; manufactured, c-shaped with wide flanges, designed to replace conventional double-stud framing at openings.

C. Headers: AISI S240; manufactured, one-member or two-member assemblies, with wide flanges, designed to replace conventional box or nested header framing at openings.
1. Jamb Mounting Clips: Manufacturer's standard.

2.5 CONNECTIONS

A. Movement Connections: Provide mechanical anchorage devices that accommodate movement using slotted holes, shouldered screws or screws and anti-friction or stepped bushings, while maintaining structural performance of framing. Provide movement connections where indicated on drawings.

B. Fixed Connections: Provide nonmovement devices for tie-down to foundation, floor-to-floor tie-down, roof-to-wall tie-down, joist hangers, gusset plates, and stiffeners.

2.6 MISCELLANEOUS CONNECTIONS

A. Self-Drilling, Self-Tapping Screws, Bolts, Nuts and Washers: Hot-dip galvanized per ASTM A153/A153M.

2.7 SHEATHING

A. Plywood; as shown on drawings

2.8 ACCESSORIES

A. Galvanizing Repair: Touch up bare steel with zinc-rich paint in compliance with ASTM A780/A780M.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

3.2 PREPARATION

A. Structural Wall Foundations: For gaps between wall bottom track and top of foundation 1/4 inch (6.4 mm) or greater, level substrate with loadbearing shims or grout between track and foundation.

3.3 INSTALLATION - GENERAL

A. Install structural members and connections in compliance with AISI S240.

3.4 INSTALLATION OF STUDS

A. Install wall studs plumb and level.

B. Construct corners using minimum of three studs. Install double studs at wall openings, door jambs.

C. Install load-bearing studs full length in one piece. Splicing of studs is not permitted.

D. Touch-up field welds and damaged corrosion-protected surfaces zinc-rich paint in compliance with ASTM A780/A780M.

3.5 INSTALLATION OF WALL SHEATHING

A. Install wall sheathing with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using self-tapping screws.

3.6 TOLERANCES

A. Studs - Vertical Alignment (Plumbness): 1/960 of span or 1/8 inch in 10 ft (3.2 mm in 3000 mm), in accordance with ASTM C1007.

B. Studs - Maximum Variation from True Position: 1/8 inch (3.2 mm) in accordance with ASTM C1007.

C. Stud Spacing: 1/8 inch (3.2 mm) from the designated spacing, provided that the cumulative error does not exceed the requirements of the finishing materials in accordance with ASTM C1007.

END OF SECTION

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 072130
PRE-ENGINEERED BUILDING INSULATION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pre-Engineered Building Insulation for Existing Construction.

B. REFERENCES
1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM E 96 - Standard Test Method for Water Vapor Transmission of Materials in Sheet Form (Procedure B).
3. ASTM C 665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
4. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials.
5. UL 723 - Tests for Surface Burning Characteristics of Building Materials.
6. ASTM C 1136 - Standard Specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation.

C. DESIGN REQUIREMENTS
1. Thermal Resistance of Installed System: R-Value that meets current Florida Building Code
2. Insulating system shall have a continuous vapor barrier outside of building purlins, girts, and insulation to provide complete isolation from outside air.

D. SUBMITTALS
1. Submit under provisions of Section 01300.
2. Product Data: Manufacturer's data sheets on each product to be used, including:
   a. Preparation instructions and recommendations.
   b. Storage and handling requirements and recommendations.
   c. Installation instructions.
3. Shop Drawings: Indicate locations of connections and attachments, general details, anchorages and method of anchorage and installation.
4. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square or long, representing actual products required for this project.
5. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

E. QUALITY ASSURANCE
1. Manufacturer Qualifications: Company specializing in manufacturing product systems specified in this section with minimum five years documented experience.
2. Installer Qualifications: Company specializing in performing work of this section.
3. Insulation system components to include a ten-year limited material warranty.

F. DELIVERY, STORAGE, AND HANDLING
1. Store products in manufacturer's unopened packaging until ready for installation.
2. Store products indoors and protect from moisture, construction traffic, and damage.

G. PROJECT CONDITIONS
1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Thermal Design, Inc., Simple Saver System. P.O. Box 468, 601 N. Main Street, Madison, NE 68748. ASD. Tel: (800) 255-0776 or (402) 454-6591. Fax: (402) 454-2708. Email: sales@thermaldesign.com. www.thermaldesign.com.

B. Requests for substitutions will be considered.

C. MATERIALS
1. Simple Saver System consists of Batt Insulation, Roof Insulation, Wall Insulation, Vapor Barrier Liner Fabric, Thermal Breaks, Straps, and other devices and
2. components in a proprietary insulation system as follows:
   a. Batt Insulation: ASTM C 991 Type 1; preformed formaldehyde-free glass fiber batt conforming to the following:
      1) Thermal Resistance as required by current edition of Florida Building Code.
      2) Batt Size: Equal to purlin/girt spacing by manufacturer's standard lengths.
      3) Unfaced.
      4) Roof Insulation: Formaldehyde-free fiberglass batt or fiberglass blanket complying with ASTM C 991 Type 1 and ASTM E 84 with a thermal resistance and thickness as follows:
         a) As indicated on the drawings.
         b) R-30; 9-1/2 inches (241 mm), 6 inches (152 mm) plus 3-1/2 inches (89 mm) (two layers).
      5) Wall Insulation: Formaldehyde-free fiberglass blanket or batt complying with ASTM C 991 Type 1, ASTM E 136 and ASTM E 84 with a thermal resistance and thickness as follows:
         a) As indicated on the drawings.
         b) R-25; 8 inches (203 mm).
      6) Vapor Barrier Liner Fabric: Syseal type woven, reinforced, high-density polyethylene yarns coated on both sides with a continuous white or colored polyethylene coatings, as follows:
         a) Product complies with ASTM C 1136, Types I through Type VI.
         b) Perm rating: 0.02 for fabric and for seams in accordance with ASTM E 96.
         c) Flame/Smoke Properties:
            (1) 25/50 in accordance with ASTM E 84.
            (2) Self-extinguishes with field test using matches or butane lighter.
            (3) Ultra violet radiation inhibitor to minimum UVMAX® rating of 8.
            (4) Size and seaming: Manufactured in large custom pieces by extrusion welding from roll goods, and fabricated to substantially fit defined building area with minimum practicable job site sealing.
            (5) Provide with factory double, extrusion welded seams. Stapled seams or heat-melted seams are not acceptable due to degradation of fabric.
            (6) Factory-folded to allow for rapid installation.
            (7) Color: White
         d) Vapor Barrier Lap Sealant: Solvent-based, Simple Saver polyethylene fabric adhesive.
         e) Vapor Barrier Tape: Double-sided sealant tape 3/4 inch (19 mm) wide by 1/32 inch (.79 mm) thick.
         f) Vapor Barrier Patch Tape: Single-sided, adhesive backed sealant tape 3 inches (76 mm) wide made from same material as Syseal® type liner fabric.
         g) Thermal Breaks:
            (1) 1/8 inch (3 mm) thick by 3 inch (76 mm) wide white, closed-cell polyethylene foam with pre-applied adhesive film and peel-off backing.
            (2) Polystyrene Snap-R snap-on thermal blocks.
         h) Straps:
            (1) 100 KSI minimum yield tempered, high-tensile-strength steel.
            (2) Size: Not less than 0.020 inch (0.50 mm) thick by 1 inch (25 mm) by continuous length.
            (3) Galvanized, primed, and painted to match specified finish color on the exposed side.
            (4) Color: White
            (5) Primed and painted to match specified finish color on the exposed side.
            (6) High-tensile-strength stainless steel.
            (7) Woven polyester plastic. Color as selected.
         i) Fasteners:
            (1) For light gage steel: #12 by 3/4 (19 mm) inch plated Tek 2 type screws with sealing washer, painted to match specified color.
            (2) For heavy gage steel: #12 by 1-1/2 inch (38 mm) plated Tek 4 type screws with sealing washer, painted to match specified color.
            (3) For wood, concrete, other materials: As recommended by manufacturer.
         j) Wall Insulation Hangers: Fast-R preformed rigid hangers, 32 inch (813 mm) long galvanized steel strips with barbed arrows every 8 inches (203 mm) along its length.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that building structure including all bracing and any concealed building systems are completed and approved prior to installing liner system and insulation in the structure.

B. Correct any unsatisfactory conditions before proceeding.

C. If conditions are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

D. INSTALLATION - GENERAL
1. Install pre-engineered building insulation system in accordance with manufacturer's installation instructions and the approved shop drawings.
2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
3. Install in exterior spaces without gaps or voids. Do not compress insulation.
4. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
5. Fit insulation tight in spaces and tight to exterior side of the sealed liner fabric and around mechanical and electrical services within plane of insulation.

E. ROOF INSULATION INSTALLATION
1. Straps:
   a. Cut straps to length and install in the pattern and spacings indicated on shop drawings.
   b. Tension straps to required value.
2. Vapor Barrier Fabric:
   a. Install vapor barrier fabric in large one-piece custom fabricated pieces to substantially fit defined building areas with minimum practicable job site sealing.
   b. Position pre-folded fabric on the strap platform along one eave purlin.
   c. Clamp the two bottom corners at the eave and also centered on the bay.
   d. Pull the other end of the pleat-folded fabric across the building width on the strap platform, pausing only at the ridge to fasten the straps and fabric in position where plane of roof changes and to release temporary fasteners on the opposite ridge purlins.
   e. Once positioned, install fasteners from the bottom side at each strap/purlins intersection.
   f. Trim edges and seal along the rafters.
   g. All seams must be completely sealed and stapled seams not acceptable.
3. Insulation:
   a. Unpack, and shake to a thickness exceeding the specified thickness.
   b. Ensure that cavities are filled completely with insulation.
   c. Place on the vapor barrier liner fabric without voids or gaps.
   d. Place top layer of insulation over and perpendicular to the purlins without voids or gaps, as roof sheathing is applied.
   e. Place thermal block on top of purlins or bottom of purlins for retrofit work, if no other thermal break exists.
   f. Place new insulation between purlins at the required thickness for the R-value specified.
4. Seal vapor barrier fabric to the wall fabric and elsewhere as required to provide a continuous vapor barrier.

F. WALL INSULATION INSTALLATION
1. Insulation:
   a. Install thermal break to exterior surface of girts as wall sheathing is applied.
   b. (Optional) Install self-sticking foam thermal break to interior surface of girts prior to installation of insulation.
   c. Position and secure Fast-R hangers to girts on the inside face of the wall sheathing.
   d. Cut insulation to required lengths to fit vertically between girts.
   e. Fluff the insulation to the full-specified thickness.
   f. Neatly position in place and secure to Fast-R hangers.
   g. Ensure that cavities are filled completely with insulation.
2. Vapor Barrier Fabric:
   a. Install vapor barrier fabric in large one-piece custom fabricated pieces to substantially fit defined building areas with minimum practicable job site sealing.
   b. Apply the vapor barrier fabric by clamping it in position over eave strap and installing fasteners through the eave strap into each roof strap, permanently clamping the wall fabric between them.
   c. Once in position, draw the vapor barrier fabric down over the column flanges to the base angle and install vertical straps along each column and 5 feet 0 inches on center, maximum, fastening to each girt to retain system permanently in place.
   d. All seams must be completely sealed and stapled seams not acceptable.
3. Seal wall fabric to the roof fabric, to the base angle and up the columns to provide a continuous vapor barrier.

G. CLEANING
1. Clean dirt or exposed sealant from the exposed vapor barrier fabric.
2. Remove scraps and debris from the site.

H. PROTECTION
1. Protect system products until completion of installation.
2. Repair or replace damaged products before completion of insulation system installation.

END OF SECTION

SECTION 079200
JOINT SEALANTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Nonsag gunnable joint sealants.

1.2 REFERENCE STANDARDS

A. ASTM C794 - Standard Test Method for Adhesion-In-Peel of Elastomeric Joint Sealants; 2015.

B. ASTM C834 - Standard Specification for Latex Sealants; 2014.

C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2014.

D. ASTM C1087 - Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems; 2000 (Reapproved 2011).

E. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2013.

F. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants; 2008 (Reapproved 2012).

G. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition.

1.3 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
2. List of backing materials approved for use with the specific product.
3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
4. Substrates the product should not be used on.

C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.

D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

E. Preconstruction Laboratory Test Reports: Submit at least four weeks prior to start of installation.

F. Field Quality Control Plan: Submit at least two weeks prior to start of installation.

G. Field Quality Control Log: Submit filled out log for each length or instance of sealant installed, within 10 days after completion of inspections/tests; include bagged test samples and photographic records, if any.

1.4 QUALITY ASSURANCE

A. Maintain one copy of each referenced document covering installation requirements on site.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

C. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.

D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

E. Preconstruction Laboratory Testing: Arrange for sealant manufacturer(s) to test each combination of sealant, substrate, backing, and accessories.
1. Adhesion Testing: In accordance with ASTM C794.
2. Compatibility Testing: In accordance with ASTM C1087.
3. Allow sufficient time for testing to avoid delaying the work.
4. Deliver to manufacturer sufficient samples for testing.
5. Report manufacturer's recommended corrective measures, if any, including primers or techniques not indicated in product data submittals.

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DESIGN DEVELOPMENT	DT	R. LEWIS						
50% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	05/27/2026					
100% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	06/25/2026					

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76

Phase: 100% Construction Documents

FSU

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description: Specifications

Sheet No.: G1.2

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6. Testing is not required if sealant manufacturer provides data showing previous testing, not older than 24 months, that shows satisfactory adhesion, lack of staining, and compatibility.

F. Field Quality Control Plan:
1. Inspection and testing to be performed by the manufacturer's representative.
2. Visual inspection of entire length of sealant joints.
3. Non-destructive field adhesion testing of sealant joints.
a. For each different sealant and substrate combination, allow for one test every 12 inches (305 mm) in the first 10 linear feet (3 linear meters) of joint and one test every 24 inches (610 mm) thereafter.
4. Field Quality Control Log Form: Show same data fields as on Preinstallation Field Adhesion Test Log, with known information filled out and lines for multiple tests per sealant/substrate combinations; include visual inspection and specified field testing; allow for possibility that more tests than minimum specified may be necessary.

G. Field Adhesion Test Procedures:
1. Allow sealants to fully cure as recommended by manufacturer before testing.
2. Have a copy of the test method document available during tests.
3. Record the type of failure that occurred, other information required by test method, and the information required on the Field Quality Control Log.
4. If any combination of sealant type and substrate does not show evidence of minimum adhesion or shows cohesion failure before minimum adhesion, report results to Architect.

1.5 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

B. Correct defective work within a five year period after Date of Substantial Completion.

C. Warranty: Include coverage for installed sealants and accessories that fail to achieve watertight seal , exhibit loss of adhesion or cohesion, or do not cure.

PART 2 PRODUCTS

2.1 JOINT SEALANT APPLICATIONS

A. Scope:
1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.
a. Joints between door, window, and other frames and adjacent construction.
b. Joints between different exposed materials.
2. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items.
a. Joints between door, window, and other frames and adjacent construction.
3. Do not seal the following types of joints.
a. Joints indicated to be treated with manufactured expansion joint cover or some other type of sealing device.
b. Joints where sealant is specified to be provided by manufacturer of product to be sealed.
c. Joints where installation of sealant is specified in another section.

B. Exterior Joints: Use nonsag non-staining silicone sealant, unless otherwise indicated.

C. Interior Joints: Use nonsag acrylic latex sealant, unless otherwise indicated.
1. Wall and Ceiling Joints in Non-Wet Areas: Acrylic emulsion latex sealant.
2. Wall and Ceiling Joints in Wet Areas: Nonsag polyurethane sealant for continuous liquid immersion.
3. Type ___ - Joints between Fixtures in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; white.

2.2 JOINT SEALANTS - GENERAL

A. Sealants and Primers: Provide products having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168.

2.3 NONSAG JOINT SEALANTS

A. Non-Staining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: +100/-50%, minimum.
2. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
3. Color: To be selected by Architect from manufacturer's standard range.
4. Cure Type: Single-component, neutral moisture curing.
5. Service Temperature Range: Minus 65 to 180 degrees F (Minus 54 to 82 degrees C).
6. Manufacturers:
a. Basis of design: Dow Chemical Company; 790 Silicone Building Sealant: consumer.dow.com/en-us/industry/ind-building-construction.html/#sle.
b. Substitutions: See Section 016000 - Product Requirements.

B. Mildew-Resistant Silicone Sealant: ASTM C920, Grade NS, Uses M and A; single component, mildew resistant; not expected to withstand continuous water immersion or traffic.
1. Color: To be selected by Architect from manufacturer's standard range..

C. Polyurethane Sealant for Continuous Water Immersion: ASTM C920, Grade NS, Uses M and A; single or multicomponent; explicitly approved by manufacturer for continuous water immersion; suitable for traffic exposure when recessed below traffic surface .
1. Movement Capability: Plus and minus 35 percent, minimum.
2. Color: To be selected by Architect from manufacturer's standard range.

D. Acrylic Emulsion Latex: Water-based; ASTM C834, single component, non-staining, non-bleeding, non-sagging; not intended for exterior use.
1. Color: To be selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that joints are ready to receive work.

B. Verify that backing materials are compatible with sealants.

3.2 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.3 INSTALLATION

A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Perform installation in accordance with ASTM C1193.

C. Install bond breaker backing tape where backer rod cannot be used.

D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

F. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

3.4 FIELD QUALITY CONTROL

A. Perform field quality control inspection/testing as specified in PART 1 under QUALITY ASSURANCE article.

B. Non-Destructive Adhesion Testing: If there are any failures in first 100 linear feet (30 linear m), notify Architect immediately.

C. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation.

3.5 POST-OCCUPANCY

A. Post-Occupancy Inspection: Perform visual inspection of entire length of project sealant joints at a time that joints have opened to their greatest width; i.e. at low temperature in thermal cycle. Report failures immediately and repair.

END OF SECTION

DIVISION 09 - FINISHES

SECTION 099600
HIGH-PERFORMANCE COATINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. High performance coatings.

B. Surface preparation.

1.2 RELATED REQUIREMENTS

1.3 REFERENCE STANDARDS

A. ASTM D4258 - Standard Practice for Surface Cleaning Concrete for Coating; 2005 (Reapproved 2017).

B. ASTM D4259 - Standard Practice for Preparation of Concrete by Abrasion Prior to Coating Application; 2024.

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.

D. MPI (APL) - Master Painters Institute Approved Products List; Master Painters and Decorators Association; Current Edition.

E. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

F. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. SSPC-SP 1 - Solvent Cleaning; 2015.

H. SSPC-SP 6 - Commercial Blast Cleaning; 2007.

1.4 SUBMITTALS

A. Product Data: Provide complete list of all products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified coating system(s) product is to be used in; include description of each system.

B. Maintenance Data: Include cleaning procedures and repair and patching techniques.

1.5 QUALITY ASSURANCE

A. Maintain one copy of each referenced document that applies to application on site.

B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

C. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of coating, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Coating Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.7 FIELD CONDITIONS

A. Do not install materials when temperature is below 55 degrees F (13 degrees C) or above 90 degrees F (32 degrees C).

B. Maintain this temperature range, 24 hours before, during, and 72 hours after installation of coating.

C. Restrict traffic from area where coating is being applied or is curing.

1.8 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

C. Warranty: Include coverage for bond to substrate.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Provide high performance coating products from the same manufacturer to the greatest extent possible.

2.2 HIGH-PERFORMANCE COATINGS

A. MPI Standards: Provide products that comply with MPI standards indicated and are listed in MPI Approved Products List.

2.3 TOP COAT MATERIALS

A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated, in the thicknesses indicated; number of coats specified does not include primer or filler coat.

B. Direct-to-Metal (DTM) acrylic: waterborne
1. Number of Coats: Two
2. Sheen: Semi-Gloss
3. Products:
a. Rust-Oleum Corporation; 3800: www.rustolium.com
b. Pittsburgh Paints; Pitt-Tech Plus EP: www.ppgpaints.com
c. Sherwin-Williams; Pro Industrial: www.protective.sherwin-williams.com

2.4 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by coating manufacturer.
1. Rust-Inhibitive, Water Based; MPI #107.
a. Products:
1) Pittsburgh Paints; Pitt-Tech Plus Interior/Exterior Waterborne Acrylic Primer Finish DTM Industrial Enamel, 4020 PF: www.ppgpaints.com/#sle.
2) Rust-Oleum Corporation; HIGH PERFORMANCE ROC Prime: www.rustoleum.com/#sle. (MPI #107)
3) Sherwin-Williams; Pro Industrial Pro-Cryl Universal Primer: www.protective.sherwin-williams.com/#sle. (MPI #107)

2.5 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of coated surfaces.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify existing conditions before starting work.

B. Do not begin application of coatings until substrates have been properly prepared.

C. Verify that substrate surfaces are ready to receive work as instructed by the coating manufacturer. Obtain and follow manufacturer's instructions for examination and testing of substrates.

D. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

F. Test shop-applied primer for compatibility with subsequent cover materials.

3.2 PREPARATION

A. Clean surfaces of loose foreign matter.

B. Remove substances that would bleed through finished coatings. If unremovable, seal surface with shellac.

C. Ferrous Metal:
1. Solvent clean according to SSPC-SP 1.
2. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning", and protect from corrosion until coated.

D. Protect adjacent surfaces and materials not receiving coating from spatter and overspray; mask if necessary to provide adequate protection. Repair damage.

3.3 PRIMING

A. Apply primer to all surfaces, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

3.4 COATING APPLICATION

A. Apply coatings in accordance with manufacturer's written instructions, to thicknesses specified and recommendations in MPI - Architectural Painting and Specification Manual.

B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

3.5 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

B. Clean surfaces immediately of overspray, splatter, and excess material.

C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.6 PROTECTION

A. Protect finished work from damage.

END OF SECTION

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DESIGN DEVELOPMENT	DT	R. LEWIS						
50% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	05/27/2026					
100% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	06/25/2026					

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Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

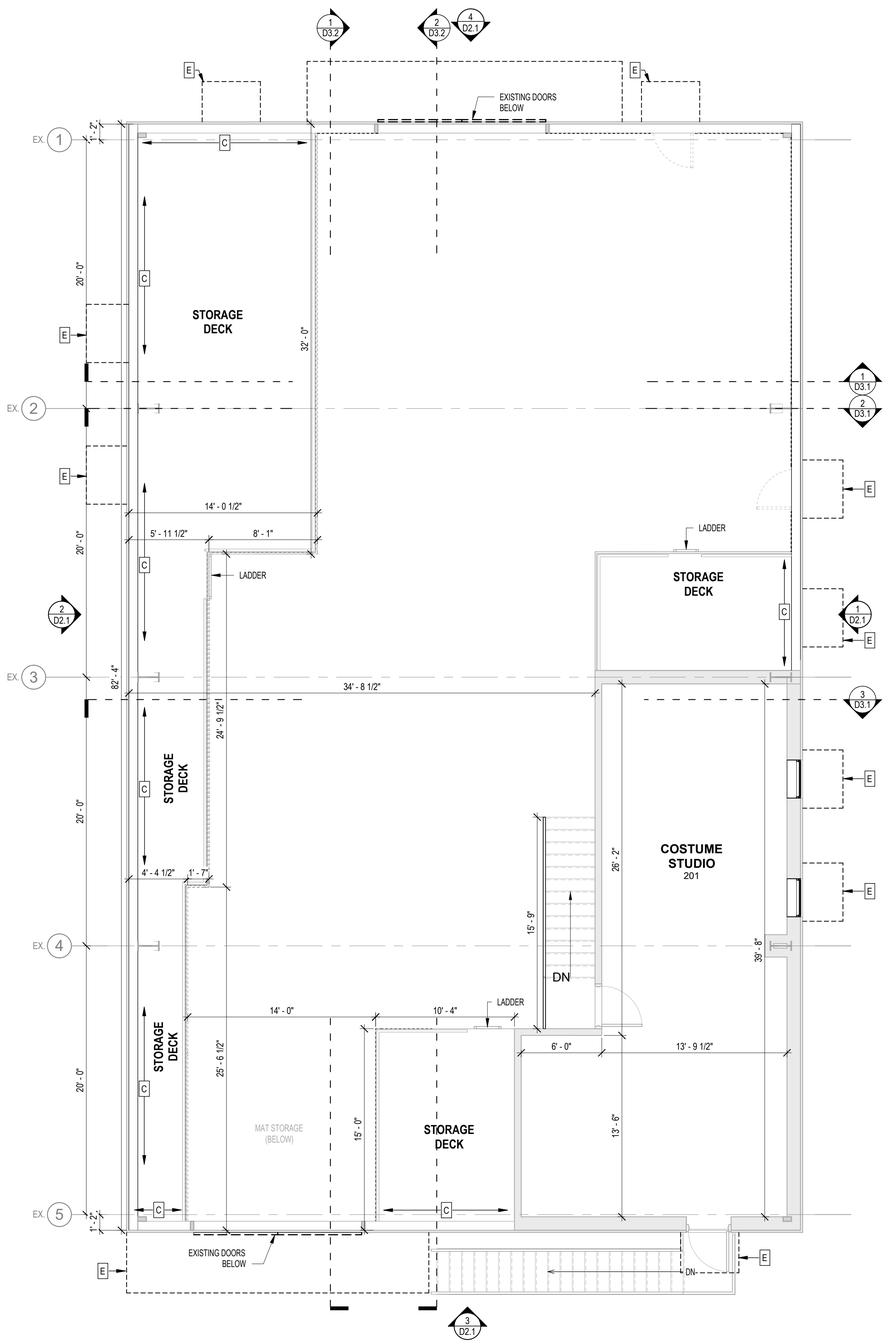
Project #: 19370.76
Phase: 100% Construction Documents

Seal:

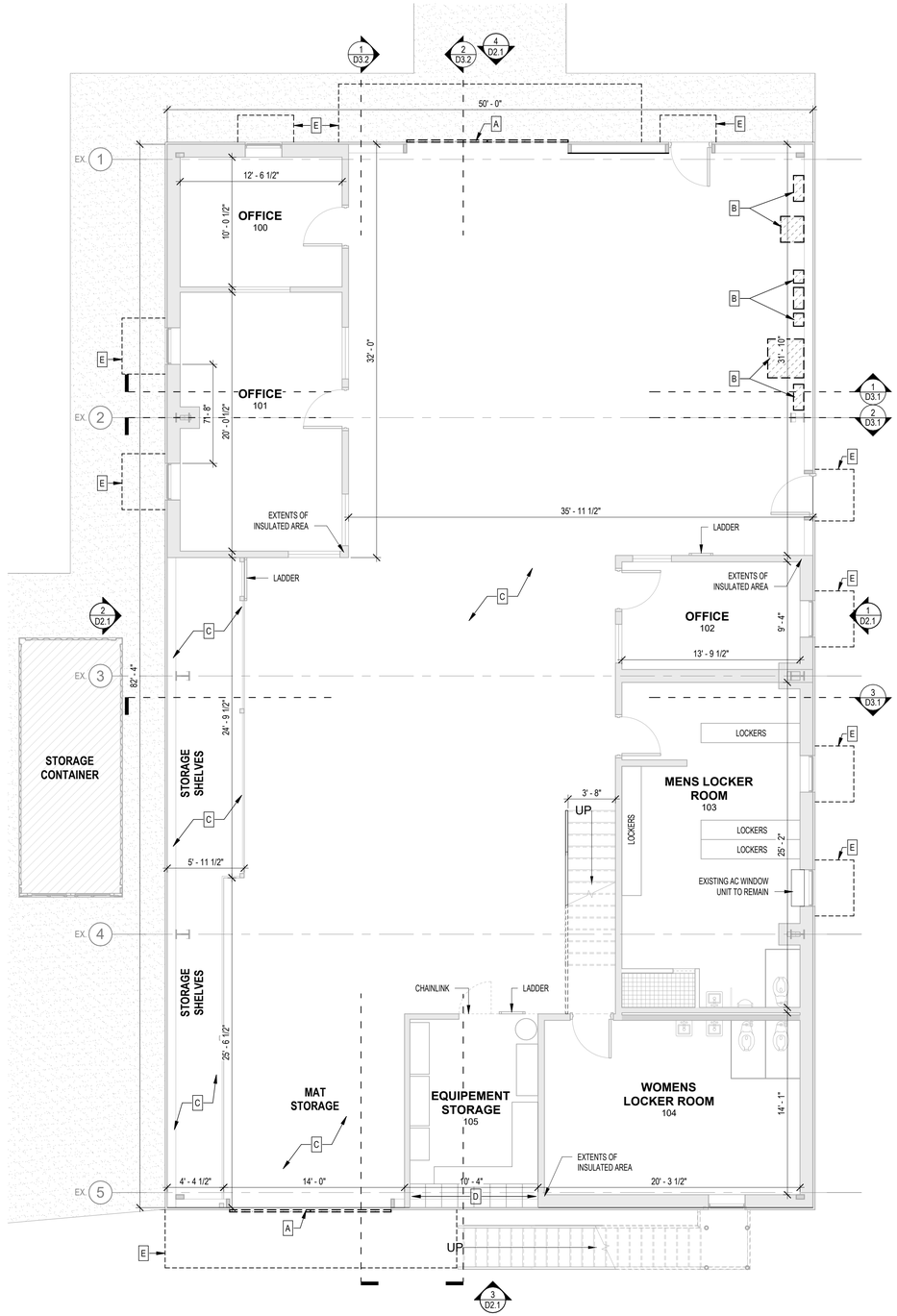
Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
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Description:
Specifications

Sheet No.:
G1.3



2 LEVEL 2 FLOOR PLAN - DEMOLITION
3/16" = 1'-0"



1 LEVEL 1 FLOOR PLAN - DEMOLITION
3/16" = 1'-0"

GENERAL DEMOLITION NOTES

1. PROVIDE SAFE MEANS OF EGRESS THROUGH AND AROUND THE BUILDING AND SITE AT ALL TIMES.
2. PROVIDE FIRE EXTINGUISHERS PER AUTHORITY HAVING JURISDICTION 'S REQUIREMENTS AT ALL TIMES THROUGHOUT CONSTRUCTION AREA.
3. CONTRACTOR TO PROTECT INTERIOR FROM EXTERIOR CONDITIONS INFILTRATING INTERIOR ENVIRONMENT.
4. VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE THE EXTENT OF DEMOLITION WORK AND EXISTING CONSTRUCTION TO REMAIN WITH NEW WORK. NOTIFY ARCHITECT OF CONFLICTS.
5. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED, UNLESS NOTED OTHERWISE.
6. REFER TO STRUCTURAL AND MEP DRAWINGS FOR SPECIFIC DISCIPLINE DEMOLITION ITEMS NOT SHOWN OR NOTED ON ARCHITECTURAL DRAWINGS.
7. WHERE EXISTING CONSTRUCTION IS REMOVED, CUT, DRILLED, DAMAGED OR OTHERWISE DISTURBED, PATCH DEFECTIVE AND INCOMPLETE SURFACES AS REQUIRED TO MATCH ADJACENT, EXISTING UNDAMAGED SURFACES, U.N.O.
8. REMOVE DESIGNATED WALLS AND PARTITIONS IN THEIR ENTIRETY INCLUDING DUCTS, PIPING, CONDUITS, BRACING AND OTHER ELEMENTS IN OR ON THESE ASSEMBLIES WHICH MAY OR MAY NOT BE SPECIFICALLY IDENTIFIED, U.N.O.
9. REPAIR / PATCH OPENINGS IN WALLS, PARTITIONS, FLOORS AND CEILINGS THAT ARE TO REMAIN TO MATCH EXISTING, ADJACENT FINISHED SURFACE. MAINTAIN PENETRATION LISTINGS AND ALL FIRE RATING REQUIREMENTS.
10. WHERE EXISTING PIPING IS PARTIALLY REMOVED, CAP AND TAG END OF REMAINING PORTION.

DEMOLITION KEYED NOTES

A. DOOR REPLACEMENT BEING PROVIDED BY SEPARATE PROJECT.
B. COORDINATE REMOVAL OF ELECTRICAL EQUIPMENT & MOUNTING HARDWARE WITH ELECTRICAL DRAWINGS, TYP.
C. OWNER TO REMOVE ALL STORED ITEMS FROM SHELVING TO ALLOW ACCESS FOR INSTALL OF INSULATION.
D. EXISTING WOOD CUBBY SYSTEM TO BE RELOCATED AS REQUIRED TO ALLOW INSULATION INSTALLATION. IN THE EVENT THAT THE CONTRACTOR & OWNER AGREE NOT TO REMOVE PORTIONS ALONG THE EXTERIOR WALL - SPRAY FOAM INSULATION MAY BE CONSIDERED IN THESE LOCATIONS.
E. ALL EXTERIOR CANOPIES TO BE REMOVED IN PREPARATION FOR EXTERIOR PAINT. MARK & IDENTIFY EXISTING LOCATIONS SO THAT SAME CANOPY IS REINSTALLED OVER SAME OPENING, TYP.

DEMOLITION LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING CONSTRUCTION TO REMAIN
- CONSTRUCTION TO BE DEMOLISHED
- CONSTRUCTION TO BE DEMOLISHED
- SHEET METAL SIDING TO BE DEMOLISHED
- PORTION OF CONCRETE SLAB TO BE DEMOLISHED

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100% CONSTRUCTION DOCUMENTS	DT	R. LEWIS	06/25/2026

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Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

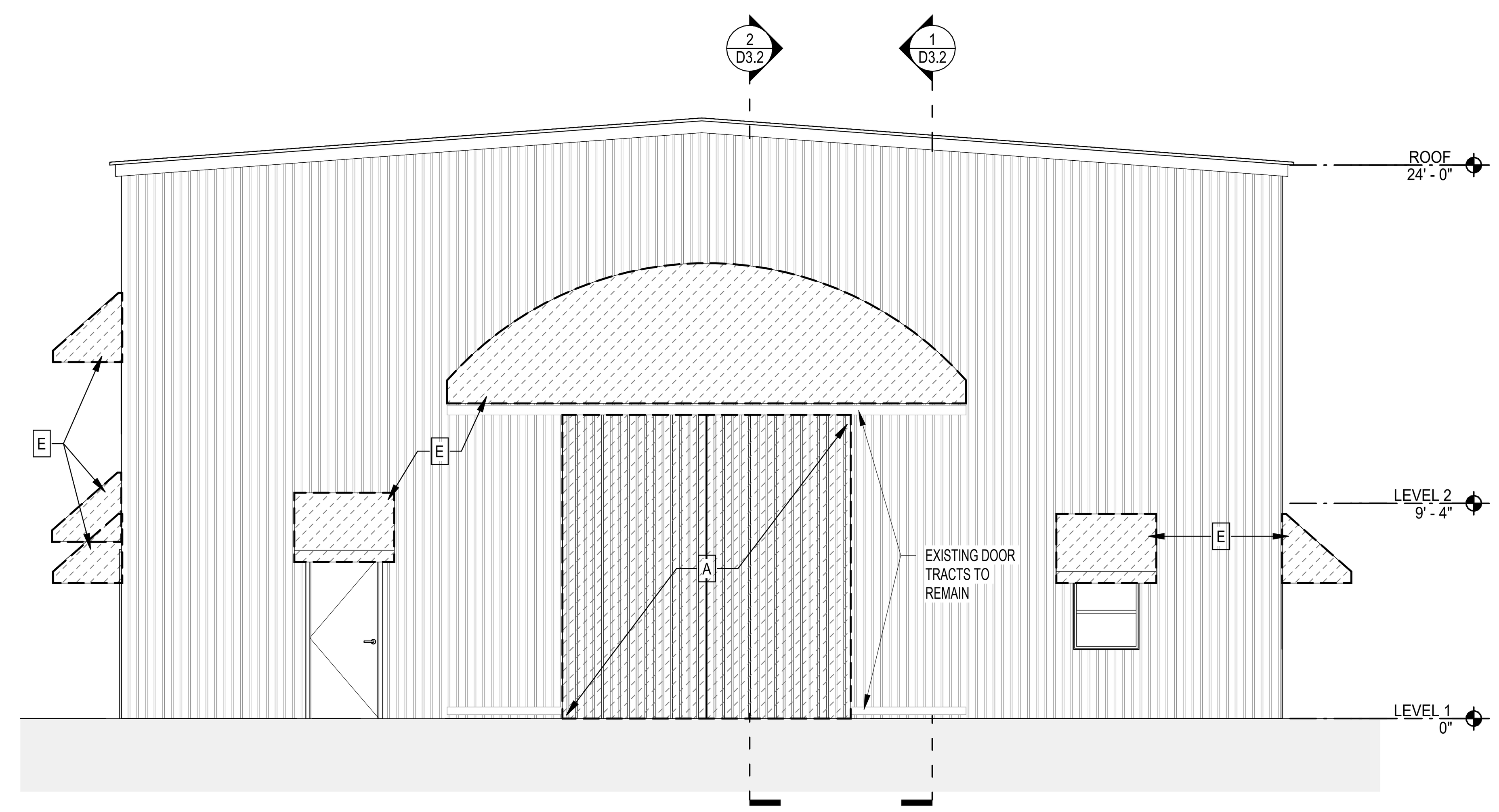
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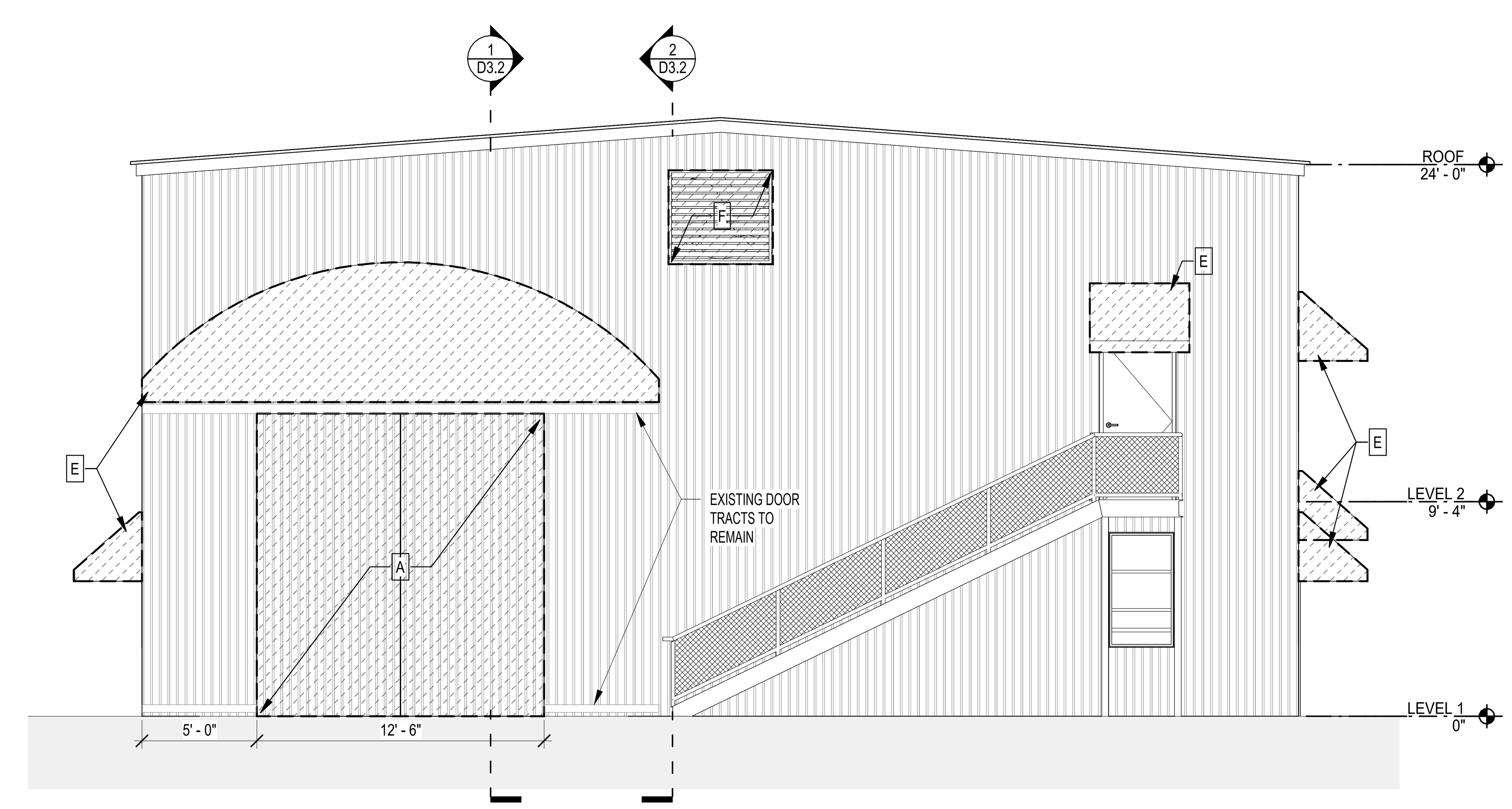
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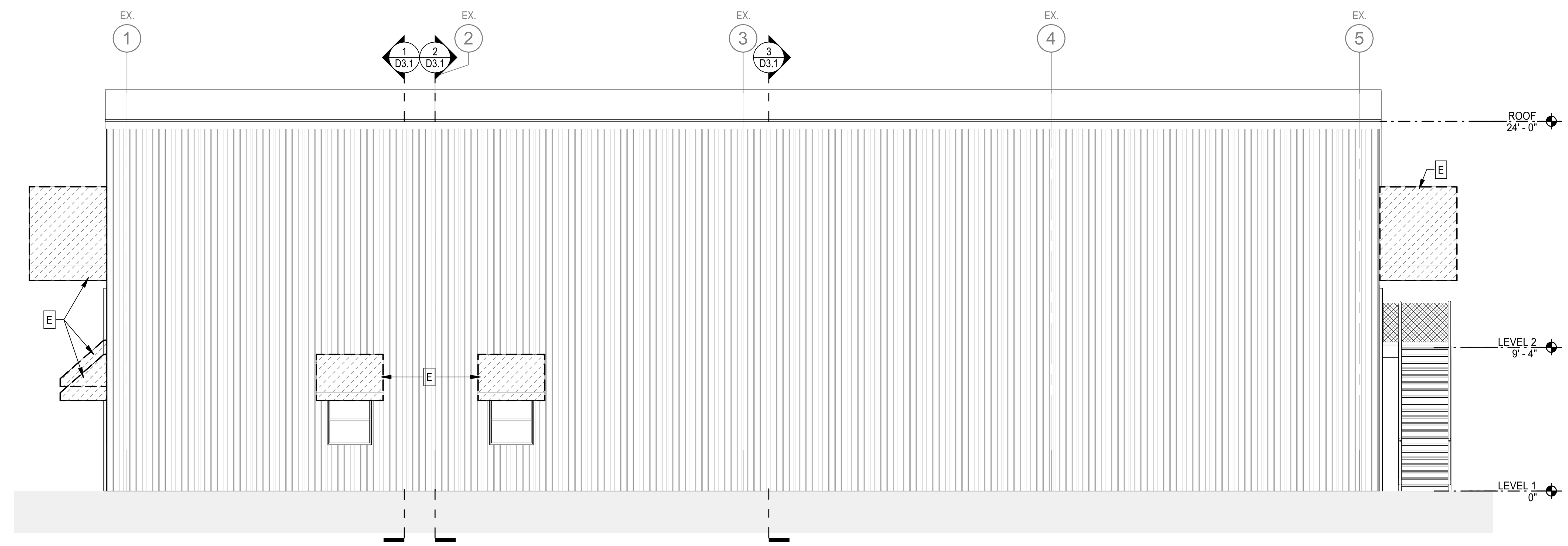
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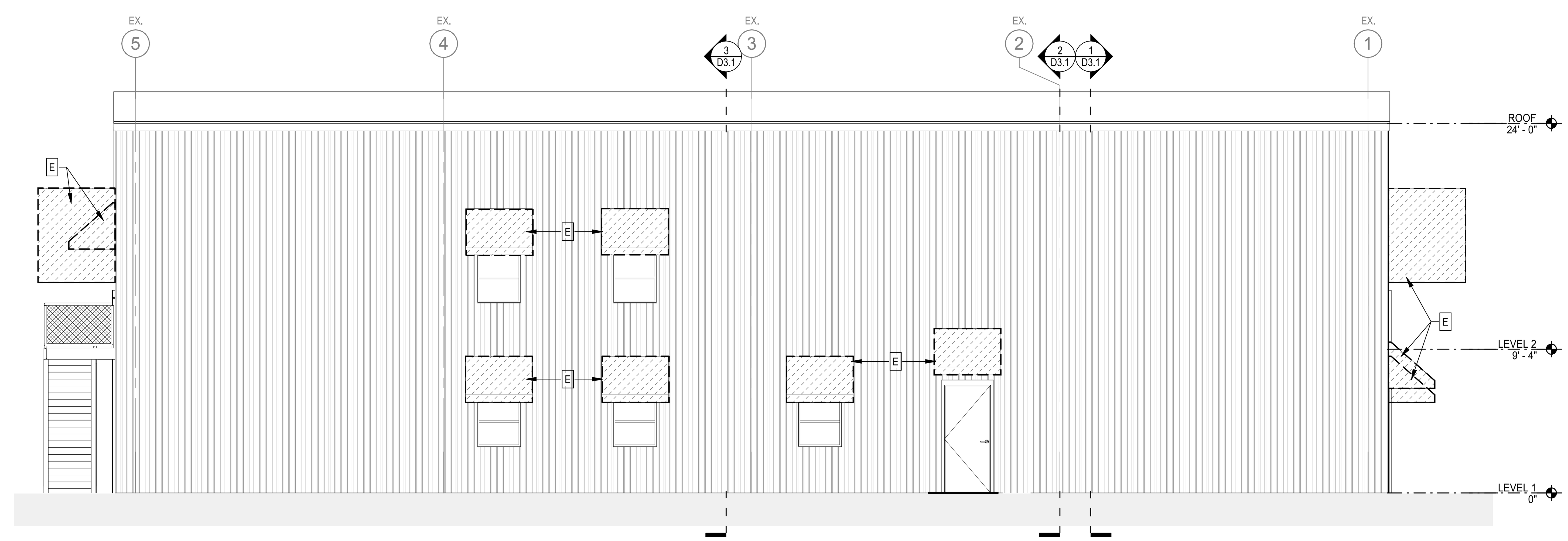
4 DEMOLITION NORTHWEST ELEVATION
3/16" = 1'-0"



3 DEMOLITION SOUTHEAST ELEVATION
3/16" = 1'-0"



2 DEMOLITION SOUTHWEST ELEVATION
3/16" = 1'-0"



1 DEMOLITION NORTHEAST ELEVATION
3/16" = 1'-0"

DEMOLITION NOTES

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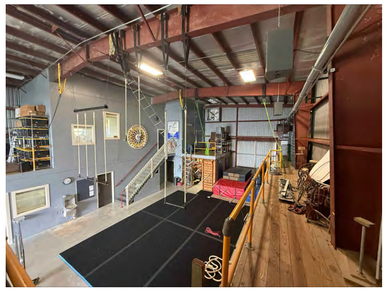
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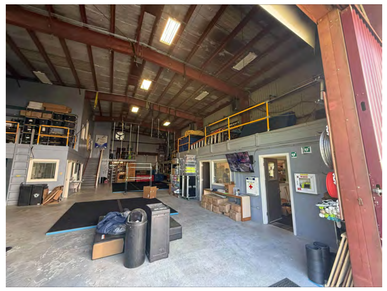
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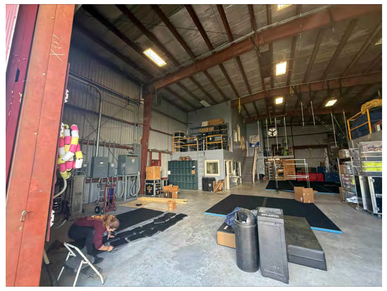
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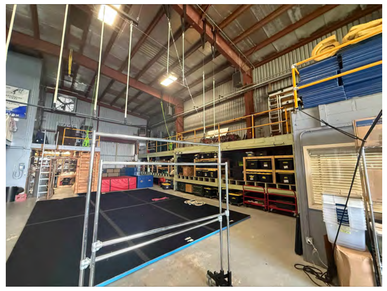
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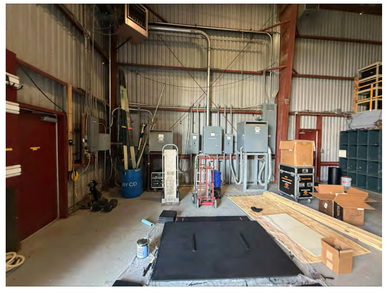
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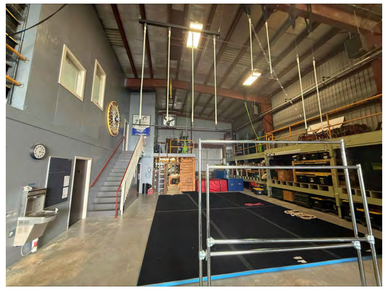


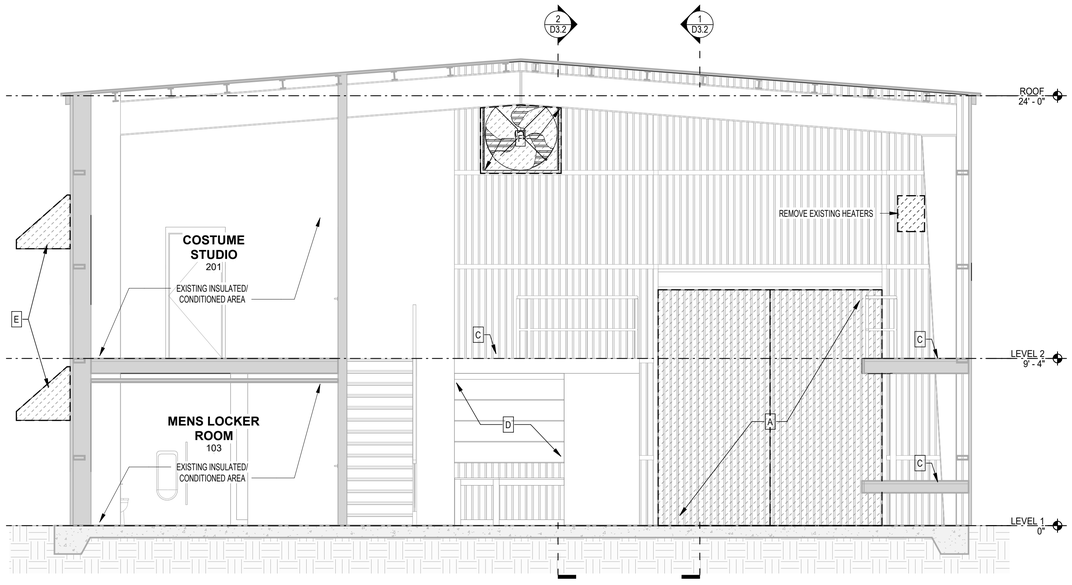












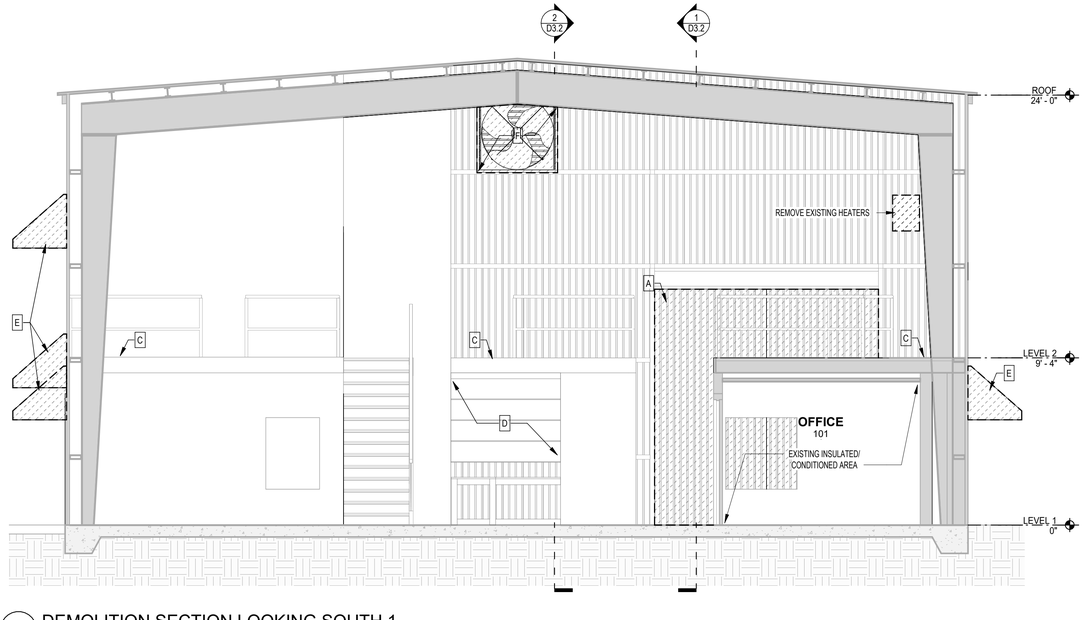
3 DEMOLITION SOUTH SECTION 2
1/4" = 1'-0"

DEMOLITION NOTES

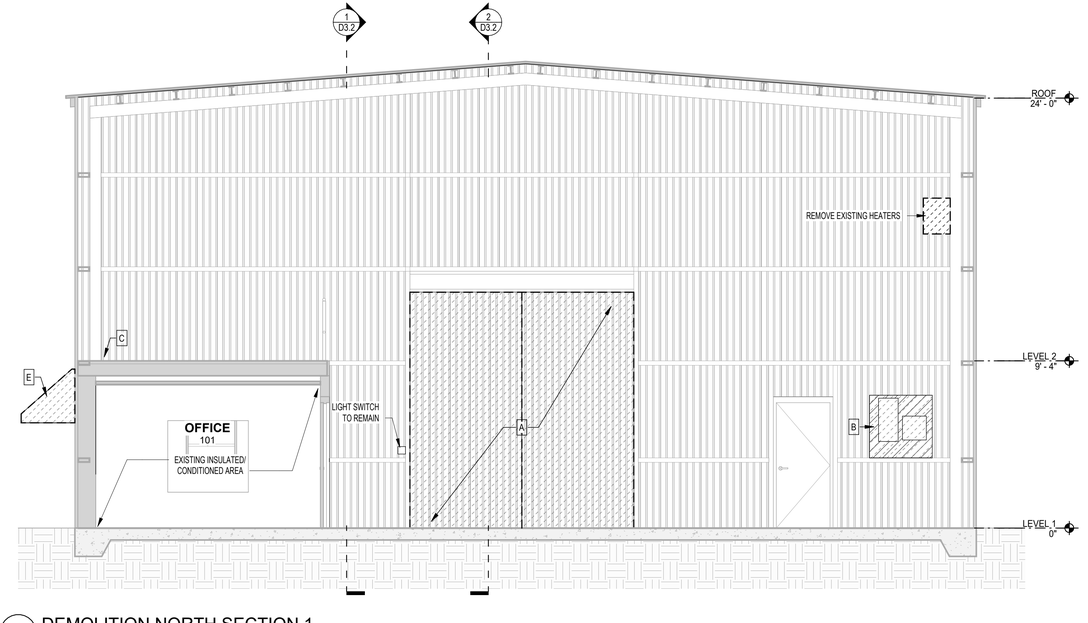
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2 DEMOLITION SECTION LOOKING SOUTH 1
1/4" = 1'-0"



1 DEMOLITION NORTH SECTION 1
1/4" = 1'-0"

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Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

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Description:
Demolition Sections & Interior Photos

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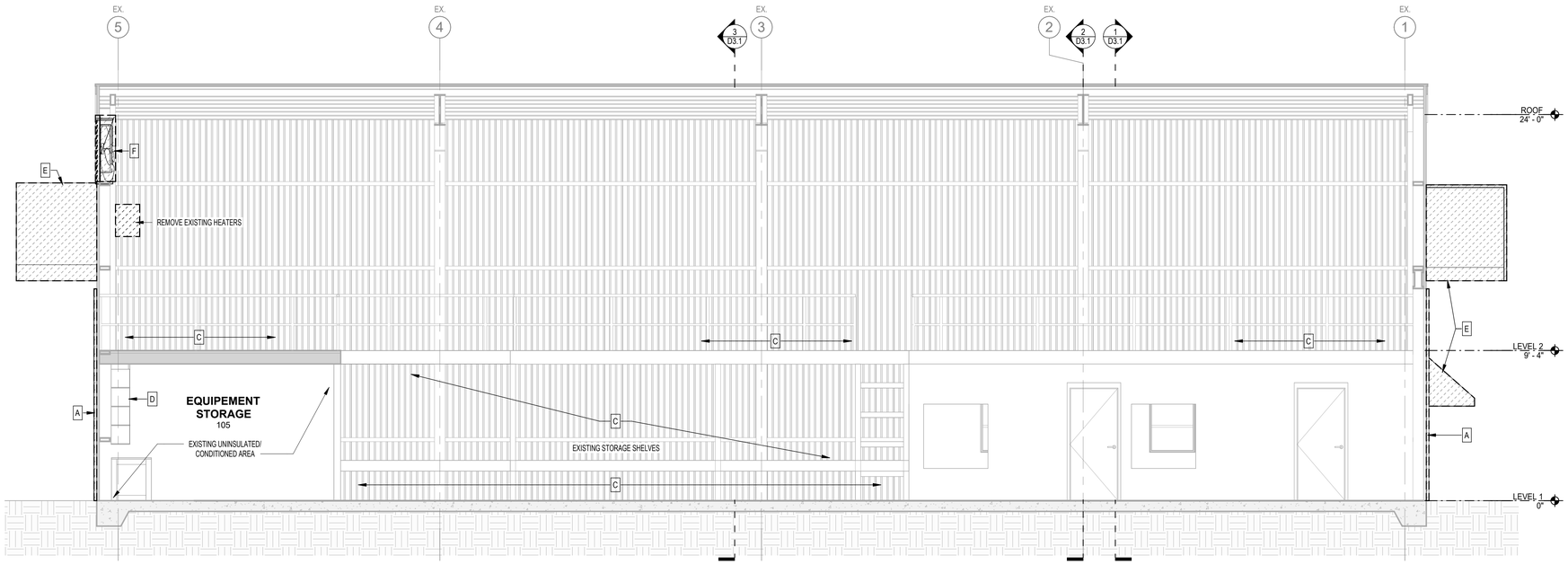
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DEMOLITION NOTES

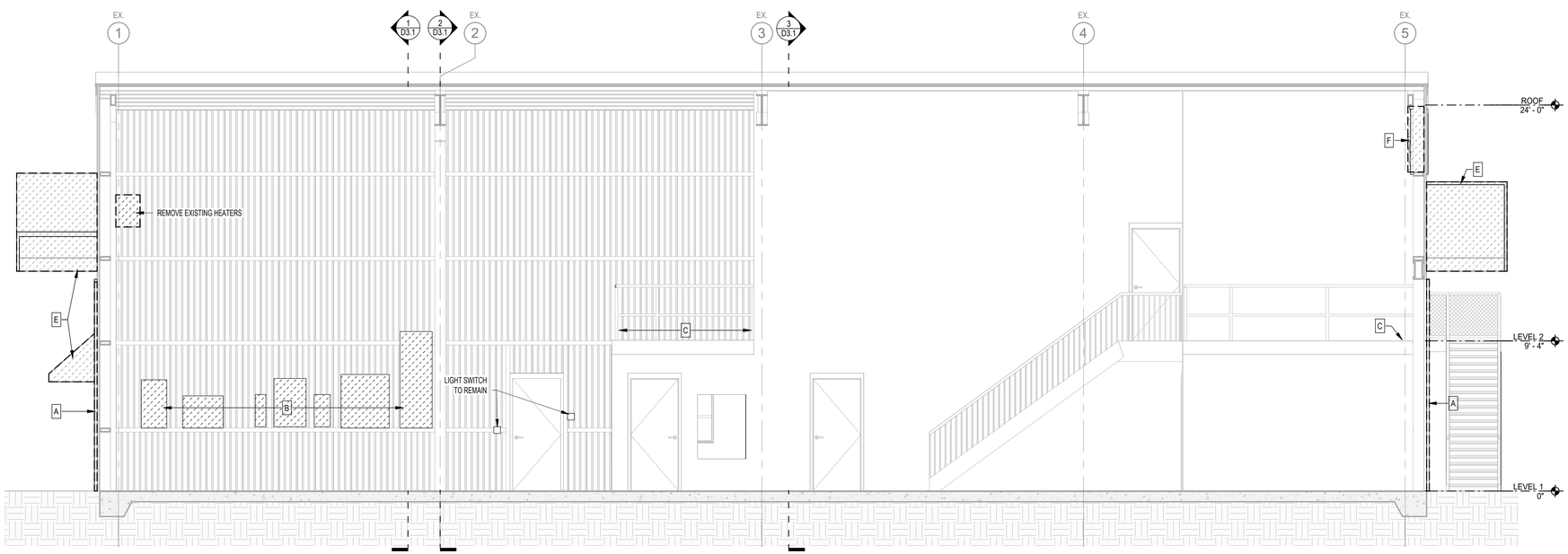
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2 DEMOLITION SECTION LOOKING SOUTH
1/4" = 1'-0"



1 DEMOLITION SECTION LOOKING EAST
1/4" = 1'-0"

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Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System

Tallahassee, Florida

Consultant:

Project #: 19370.76

Phase: 100% Construction Documents

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Tallahassee, Florida 32301
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www.think3d.net

Description: Demolition Sections

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STRUCTURAL SPECIFICATIONS

MISCELLANEOUS

1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS OR TIE -DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.

3. CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.

4. APPLICABLE BUILDING CODE: 8TH EDITION (2023) FLORIDA BUILDING CODE.

5. WIND DESIGN CRITERIA:
ULTIMATE WIND SPEED: V_{ULT} = 118 MPH (3 SECOND GUST)
EQUIVALENT NOMINAL BASIC WIND SPEED V_{ASD} = 92 MPH (3 SECOND GUST)
TORNADO SPEED, V_T = N/A MPH
RISK CATEGORY = II
TORNADO EFFECTIVE PLAN AREA, A_E = N/A SF
EXPOSURE CATEGORY = C
ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT, GC_{PI}= +/-0.18
ENCLOSED BUILDING TORNADO INTERNAL PRESSURE COEFFICIENT, GC_{PIT} = +.55/-.18

6. RAIN DESIGN CRITERIA:
DESIGN STORM RETURN PERIOD = 100 YRS
RAINFALL INTENSITY,i = 8.41 IN/HR

7. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.

8. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.

9. CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.

10. SECTIONS AND DETAILS ARE REFERENCED IN TYPICAL LOCATIONS BUT ALSO APPLY TO ALL OTHER SIMILAR CONDITIONS.

11. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.

12. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE DELEGATED ENGINEER, WHERE SPECIFIED HEREIN.

13. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.

14. ANY CHANGES TO THE STRUCTURE SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.

15. CONTRACTOR SHALL NOTIFY THIS OFFICE WHEN THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETED, AND BEFORE SHEATHING, CEILINGS, OR ROOFING IS INSTALLED.

EXISTING BUILDINGS

INFORMATION ON THE EXISTING BUILDING, SHOWN ON THESE PLANS, IS OBTAINED FROM EXISTING BUILDING PLANS BY FLORIDA STATE UNIVERSITY , DATED 8/30/1967 . EXISTING INFORMATION DOES NOT NECESSARILY REFLECT AS-BUILT CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON THESE PLANS AND NOTIFY THE ENGINEER OF ANY VARIATION.

DRILL-IN BOLTS, SCREWS AND DOWELS

1. ADHESIVE DOWELING RODS/BOLTS SHALL BE CARBON STEEL THREADED ROD CONFORMING TO ISO 898 5.8 WITH A MINIMUM TENSILE STRENGTH OF 72.5 KSI (500MPa) AND A MINIMUM YIELD OF 58 KSI (400MPa). THREADED RODS WITH NUTS AND WASHERS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

2. ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD SIDE-BY-SIDE FOIL PACKAGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. ADHESIVE SHALL BE TESTED AND APPROVED TO MEET THE MINIMUM REQUIREMENTS OF ACI 355.4 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PROVIDE HILTI HIT – HY 200 V3 ADHESIVE SAFE SET (ESR 4868 & ESR 4878) OR RE 500 V3 (ESR 3814) ANCHORS BY HILTI OR EQUAL (E.G. SIMPSON SET-3G), UNLESS SPECIFIED OTHERWISE IN THE STRUCTURAL DOCUMENT.

3. DRILL-IN REBAR DOWELS SHALL BE SET USING A TWO-PART ADHESIVE AS DESCRIBED ABOVE.

4. EXPANSION BOLTS SHALL BE HILTI KB-TZ2 (ESR-4266) OR EQUAL. BOLT SHALL MEET DUCTILITY REQUIREMENTS OF ACI 318 SECTION D1.

5. EXPANSION BOLTS SHALL HAVE CARBON STEEL ANCHOR BODY AND NUT AND WASHER SHALL BE ELECTROPLATED ZINC COATING CONFORMING TO ASTM B633 TO A MINIMUM OF 5µM. THE STAINLESS STEEL ANCHOR BODY, NUT AND WASHER, AND EXPANSION SLEEVE SHALL CONFORM TO TYPE 316 STAINLESS STEEL. EXPANSION ANCHORS SHALL MEET THE MINIMUM REQUIREMENTS OF ACI 355.2 FOR CRACKED AND UNCRACKED CONCRETE. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

6. MASONRY SCREWS SHALL BE 1/4" DIAMETER WITH 1-5/8" MINIMUM EMBEDMENT INSTALLED IN DRILLED HOLES USING AN APPROPRIATE BIT DIAMETER.

7. SCREWS SHALL HAVE A BODY MADE OF CARBON STEEL AND SHALL BE HEAT TREATED AND SHALL HAVE 8µM ZINC COATING IN ACORDANCE WITH EN ISO 4042. PROVIDE HUS EZ (ESR 3027) SCREWS BY HILTI OR EQUAL.

8. HEAVY-DUTY CONCRETE AND MASONRY SCREWS SHALL BE TESTED AND APPROVED TO MEET THE MINIMUM REQUIREMENTS OF ACI 355.2. HILTI KWICK HUS EZ (ESR-3027 FOR CONCRETE, ESR-3056 FOR GROUT FILLED MASONRY). HEAVY DUTY SCREWS BY HILTI OR EQUAL.

9. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER 'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THE ANCHORING PRODUCTS SPECIFIED. PENNONI TO RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR 'S PERSONNEL WHO ARE TO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR BUILDINGS", LATEST EDITION.

2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1. ALL WELDING SHALL BE PERFORMED USING E70XX, LOW HYDROGEN ELECTRODES. ELECTRODES ARE TO BE PROTECTED FROM MOISTURE.

3. ALL BOLTS TO BE 3/4" DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS. ALL FIELD CONNECTIONS ARE TO BE BOLTED WITH ASTM A325N OR A490 BOLTS (BEARING TYPE BOLTS WITH THREADS IN THE SHEAR PLANE) INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT UNLESS OTHERWISE NOTED.

4. SIZE AND USE OF HOLES: SEE AISC TABLE J3.3.
A) LARGER HOLES ARE PERMITTED IN STANDARD COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 3/8". HARDENED WASHERS, TO COVER THE LARGER HOLE, SHALL BE PROVIDED.
B) LARGER HOLES ARE NOT PERMITTED IN WIND FRAME COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16".
C) SLOTTED HOLES: A PLATE WASHERS OR A CONTINUOUS BAR WITHSTANDARD HOLES, HAVING A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION, AND A MIN. OF 5/16" THICK SHALL BE PROVIDED. TACK WELD NUT TO BOLT AFTER ERECTION.

5. STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.

6. VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS.

7. SHOP PRIME STEEL SURFACES EXCEPT THE FOLLOWING:
A) SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
B) SURFACES TO BE FIELD WELDED.
C) SURFACES TO BE HIGH-STRENGTH BOLTED WITH SLIP-CRITICAL CONNECTIONS.
D) SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
E) GALVANIZED SURFACES.

8. SURFACE PREPARATION: CLEAN SURFACES TO BE PAINTED. REMOVE LOOSE RUST AND MILL SCALE AND SPATTER, SLAG, OR FLUX DEPOSITS. PREPARE SURFACES ACCORDING TO THE FOLLOWING SPECIFICATIONS AND STANDARDS.

9. PRIMING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO PROVIDE A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES.
A) STRIPE PAINT CORNERS, CREVICES, BOLTS, WELDS, AND SHARP EDGES.
B) APPLY TWO COATS OF SHOP PAINT TO INACCESSIBLE SURFACES AFTER ASSEMBLY OR ERECTION. CHANGE COLOR OF SECOND COAT TO DISTINGUISH IT FROM FIRST.

10. PRIME AND PAINT ALL FIELD WELDS AFTER INSPECTION.

11. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS.
A) VISUALLY INSPECT ALL STEEL MEMBERS AND CONNECTIONS.
B) TEST 50 PERCENT OF FULL PENETRATION WELDS.

12. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

13. STEEL SHALL CONFORM TO:
WIDE FLANGE (WF)(WT)------ASTM A992 (50 KSI)
SHAPES (S, L, C, MC)---------ASTM A36
HOLLOW STRUCTURAL SECTIONS (HSS)---ASTM A500 GRADE C (RECTANGULAR 50 KSI; ROUND 46 KSI)
STEEL PIPE----------------ASTM A53
ANCHOR RODS---------------ASTM F1554 (55 KSI W/S1 SUPPLEMENT)
ANCHOR BOLTS--------------ASTM A307
FRAMING BOLTS-------------ASTM A325N OR A490N
SHEAR STUDS---------------ASTM A108
WELDING ELECTRODES--------E70XX

14. FASTENERS AND MATERIALS USED FOR WELDING OR OTHERWISE SECURING COMPONENTS ONE TO ANOTHER SHALL BE OF DOMESTIC (USA MADE) MANUFACTURE. SIMILARLY, ALL MATERIALS USED IN THE MANUFACTURING PROCESS SHALL BE FROM A DOMESTIC SOURCE.

15. SHOP AND FIELD WELDS SHALL BE DONE BY A.W.S. CERTIFIED WELDERS. PROVIDE CURRENT CERTIFICATES UPON REQUEST.

16. NO SPLICES SHALL BE PERMITTED IN ANY STRUCTURAL STEEL MEMBER UNLESS SHOWN ON APPROVED SHOP DRAWINGS.

17. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL LAYOUTS AND DETAILS, SIZES OF MEMBERS, TYPE OF STEEL, CONNECTION DETAILS, WELDS, BOLTS, ETC., AS REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING. ALL CONNECTIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE DETAILER AND SUBMITTED ON SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED FLORIDA DELEGATED ENGINEER.

18. NON-SHRINK GROUT SHALL BE: NONMETALLIC SHRINKAGE-RESISTANT GROUT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH CRD-C621, CORPS OF ENGINEERS.

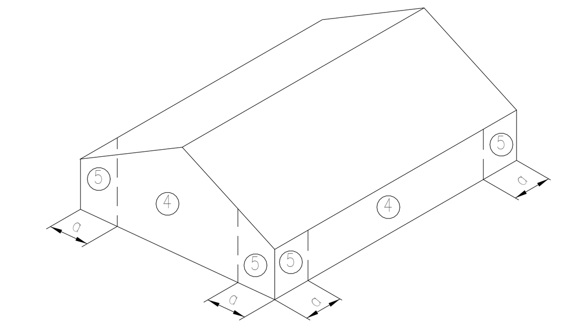
19. IF NOT SPECIFIED ON THE DRAWINGS, THE THROAT SIZE OF ANY FILLET WELD SHALL BE EQUAL TO 1/16" LESS THAN THE THINNEST CONNECTION COMPONENT.

20. NO FIELD WELDING OF GALVANIZED MEMBERS IS PERMITTED.

21. MINIMUM EMBEDMENT DEPTH OF ANCHOR BOLTS:
A) BEAMS, COLUMNS, WALLS = 6"
B) FOOTINGS = 3" FROM BOTTOM

ULTIMATE WIND PRESSURES (PSF)
EXTERIOR DOORS, WINDOWS, WALLS

EFFECTIVE AREA (ft^2)	ZONE 4		ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION
1 TO 20	30.6	-33.2	30.6	-40.8
21 TO 50	29.2	-31.7	29.2	-37.9
51 TO 100	27.4	-30.0	27.4	-34.5
101 TO 150	26.1	-28.7	26.1	-31.8
151 TO 250	25.3	-27.9	25.3	-30.2
251 TO 500	24.3	-26.9	24.3	-28.2
501 + ABOVE	23.0	-25.5	23.0	-25.5



DOORS, WINDOWS AND WALLS

COMPONENT AND CLADDING LOADING DIAGRAMS

1. a=5-'0"

2. THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE TABLES. .

3. TO CONVERT THE (ASCE 7-22) ULTIMATE WIND PRESSURES IN THE TABLES ABOVE TO (ASD) WIND PRESSURES, MULTIPLY EACH VALUE BY 0.6.

DRAWING INDEX

SHEET NUMBER	SHEET NAME
S0.1	Structural Specifications
S1.1	Structural Floor and Roof Framing Plan
S2.1	Structural Details

Pennoni
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(850) 536-8140
Florida Coa 7819
Jeffrey D Kvamme, P.E.
Florida P.E. 100866
Pennoni Project No. ALW3D24013

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100% CONSTRUCTION DOCUMENTS	NM	J. KVAMME	06/24/2026

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant: Pennoni

Project #: 19370.76
Phase: 100% Construction Documents

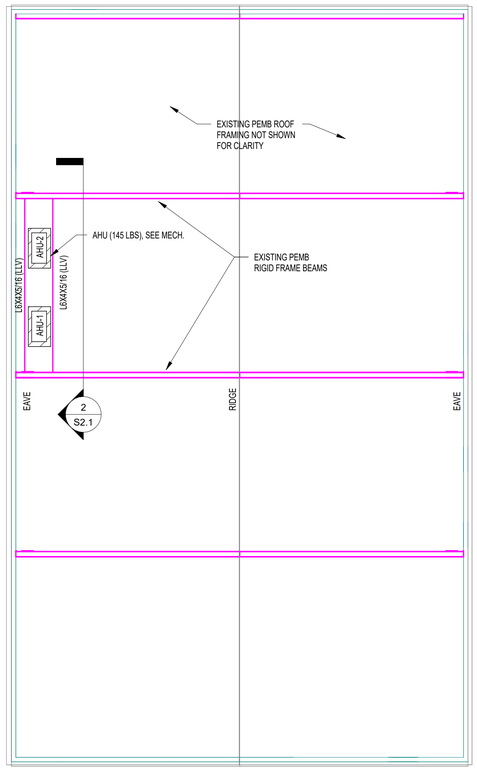
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Description: Structural Specifications

Sheet No.: S0.1

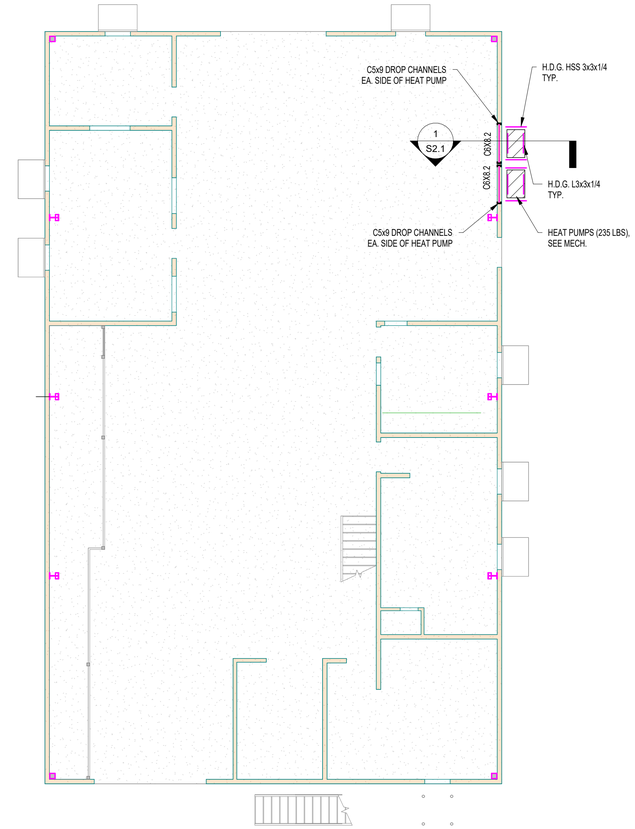
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2 ROOF PLAN

PLAN NOTES:

1. COORDINATE LOCATION OF ALL NEW MECHANICAL EQUIPMENT W/ MECHANICAL DRAWINGS.
2. CONTACT A/E IF EXISTING CONDITION DIFFER FROM WHAT IS SHOWN.
3. WEIGHTS OF NEW MECHANICAL UNITS ARE A BASIS OF DESIGN PROVIDED BY THE MECHANICAL ENGINEER. CONTACT A/E IF FINAL WEIGHT DIFFER FROM WHAT IS SHOWN.
4. REFER TO S0.1 FOR STRUCTURAL SPECIFICATION.
5. REFER TO S2.1 FOR FRAMING DETAILS.
6. VERIFY DIMENSIONS & ELEVATIONS W/ EXISTING & ARCHITECT PRIOR TO DESIGN & FABRICATION.



1 GROUND FLOOR PLAN

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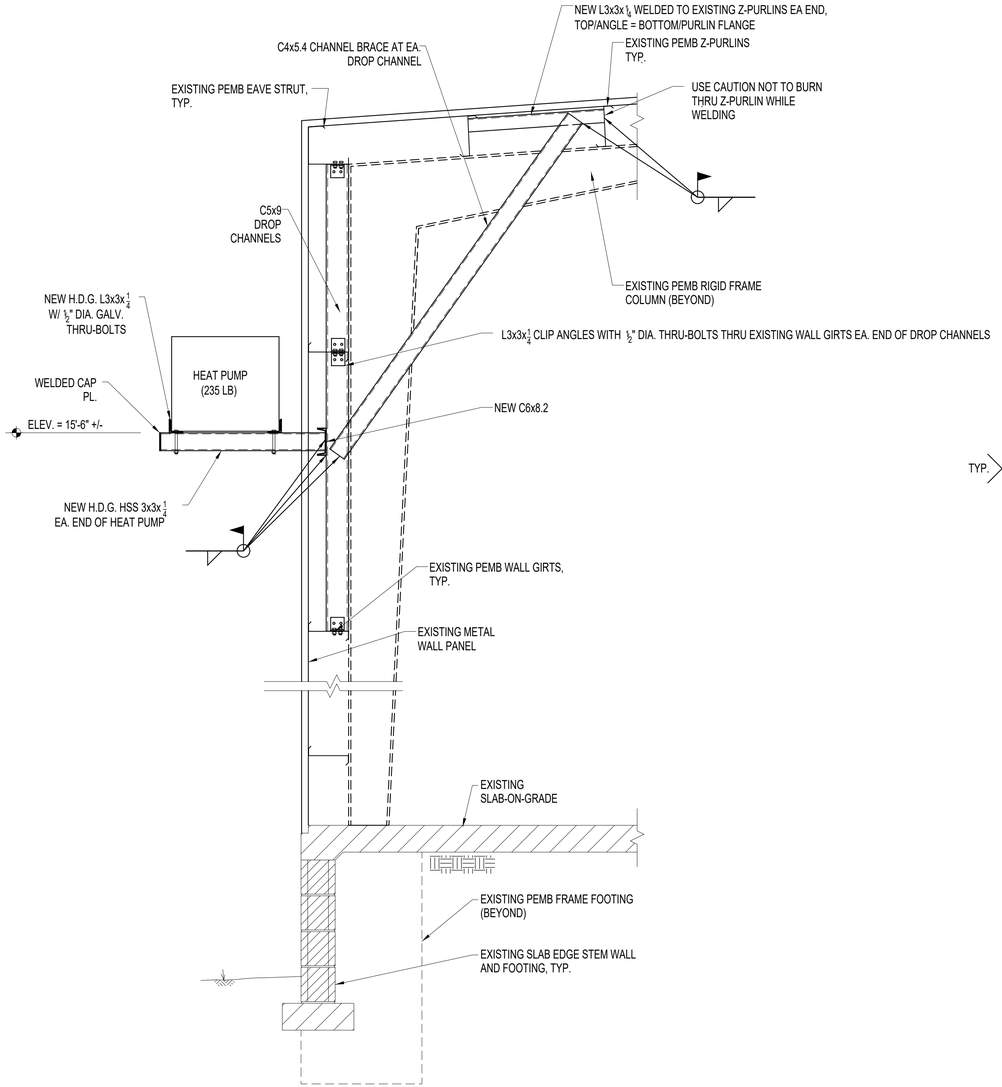
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Description:
Structural Floor and Roof Framing Plan

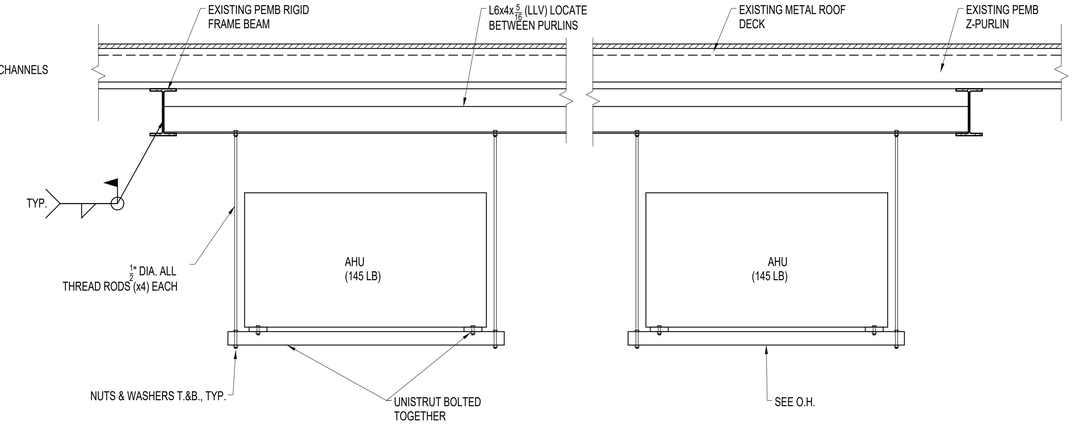
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1 ELEVATION

3/4" = 1'-0"



NOTES:

1. COORDINATE LOCATION OF AHU'S W/ MECHANICAL
2. PROVIDE UNISTRUT CROSS-BRACING IF REQUIRED FOR LATERAL STABILITY. ATTACH CROSS-BRACING TO THE EXISTING Z-PURLINS.

2 ELEVATION

3/4" = 1'-0"

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Description:
Structural Details

Sheet No.:
S2.1

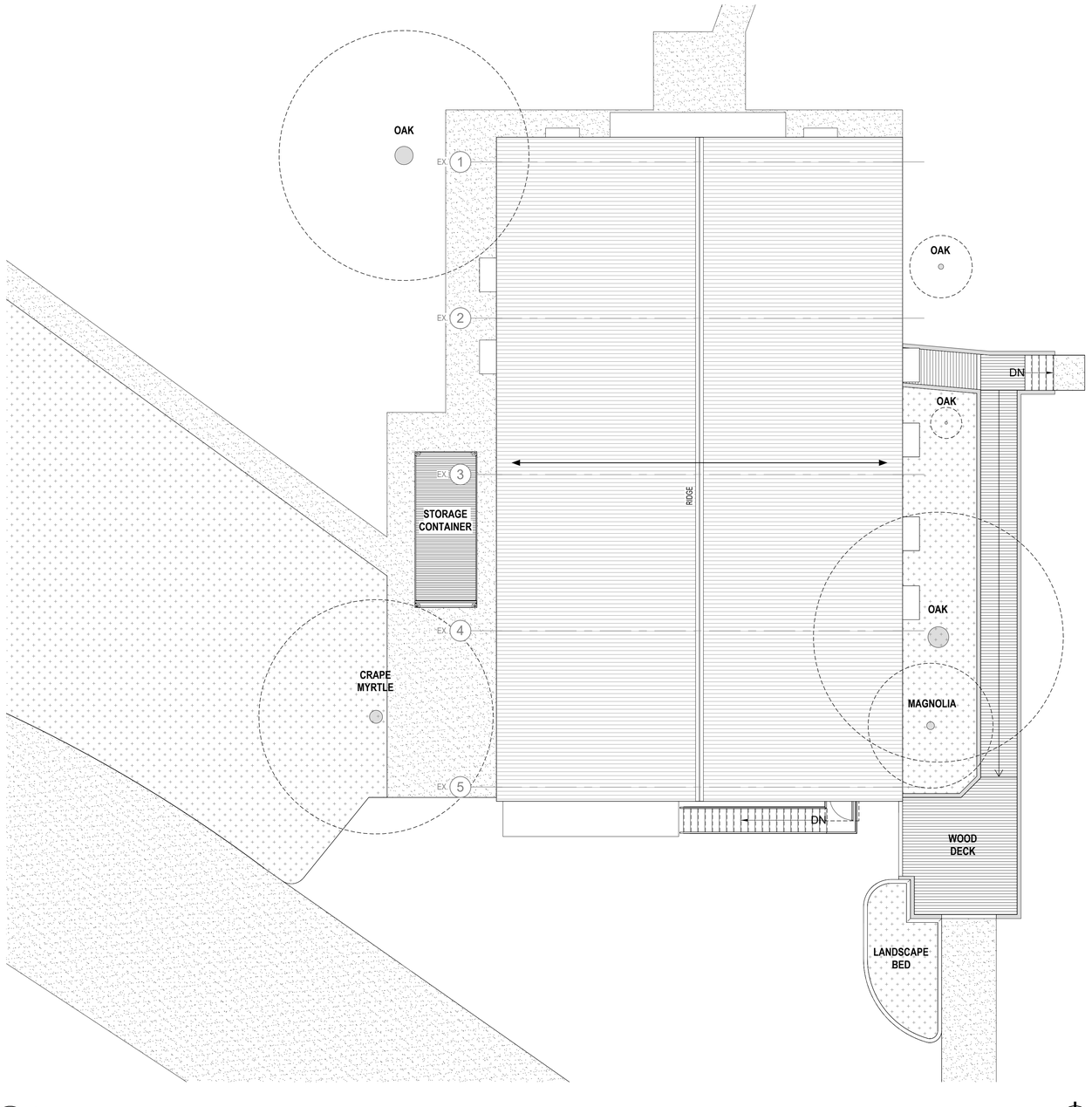
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GENERAL CONST. NOTES

1. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND BECOME FAMILIAR WITH ALL CONDITIONS WHICH MAY AFFECT THE WORK, PRIOR TO STARTING.
2. PLAN DIMENSIONS ARE TO FACE OF MASONRY AT MASONRY WALLS, FACE OF FRAMING AT FRAMED WALLS, AND FACE OF FINISH AT EXISTING FRAMED WALLS.
3. ALL NEW WALL SURFACES SHALL BE FINISHED AND PAINTED PER FINISH SCHEDULE AND SPECIFICATIONS.
4. CLEAN AND PREP ALL AREAS WITHIN SCOPE OF WORK TO RECEIVE NEW FINISHES.
5. DIMENSIONS INDICATED FOR EXISTING CONSTRUCTION ARE ASSUMED TO BE ACCURATE TO +/- 1".
6. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS THAT ARE IMPACTED BY MECHANICAL AND/OR ELECTRICAL CONDUIT, PIPING, AND ALL OTHER MISC DEVICES.
7. ALL WORK IS TO BE LAID OUT TRUE, SQUARE, AND PLUMB, AND TO EXACT AND CORRECT DIMENSIONS. IF DIMENSIONAL DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR MUST NOTIFY THE ARCHITECT IN WRITING PRIOR TO PROCEEDING. THE ARCHITECT WILL ISSUE A DIMENSIONAL OR LAYOUT CORRECTION. DO NOT SCALE DRAWINGS.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND WORK, INCLUDING THE WORK OF OTHERS WHERE AFFECTED.
9. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF COMPLETE AND CURRENT DRAWINGS AVAILABLE FOR REVIEW AT THE JOB SITE AT ALL TIMES. ALL FIELD MODIFICATIONS TO THE ORIGINAL DESIGN DOCUMENTS SHALL BE NOTED AND MAINTAINED FOR THE OWNERS RECORD COPY.
10. WHEN NEW CONSTRUCTION IS INDICATED TO PATCH OR ALIGN WITH EXISTING CONSTRUCTION, ALIGN NEW FINISHES WITH ADJACENT EXISTING FINISHES, TYPICAL.
11. SEE ARCHITECTURAL DETAILS AND STRUCTURAL DRAWINGS FOR ADDITIONAL WALL CONSTRUCTION REQUIREMENTS, TYP.

SITE LEGEND

- CANOPY OVERHEAD
- SHEET METAL ROOF
- CONCRETE SLAB
- ASPHALT
- WOOD PLANK BOARDWALK
- LANDSCAPING
- ADA — ADA ACCESSIBLE ROUTE
- EXISTING TREE



1 SITE PLAN
1/8" = 1'-0"

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Consultant:

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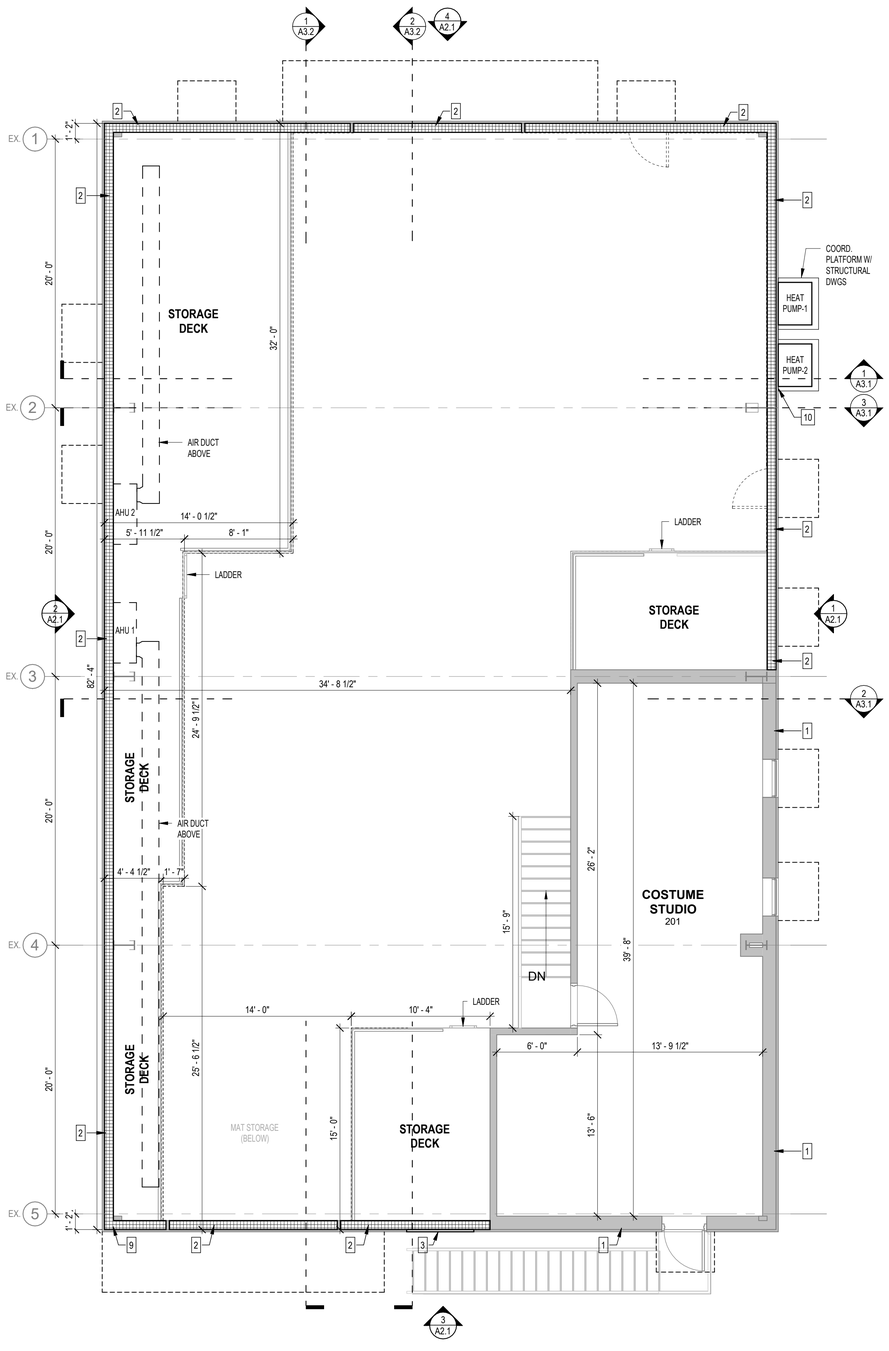
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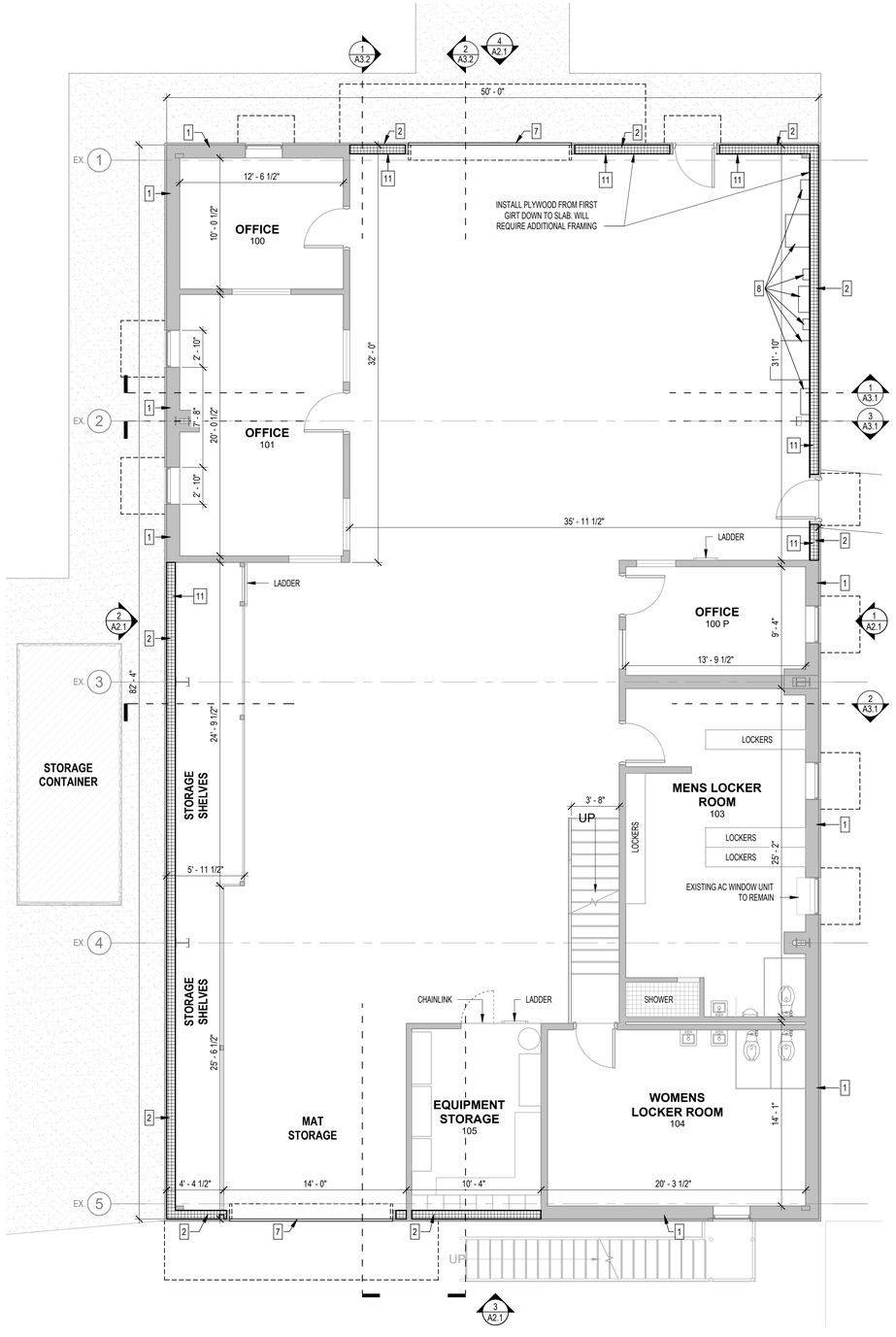
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Description: Site Plan

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2 LEVEL 2 FLOOR PLAN - NEW
3/16" = 1'-0"



1 LEVEL 1 FLOOR PLAN - NEW
3/16" = 1'-0"

GENERAL NOTES - FLOOR PLAN

1. REFER TO WALL TYPES IN G-SERIES FOR INTERIOR CONSTRUCTION ASSEMBLIES.
2. ALL INTERIOR WALLS ARE DIMENSIONED TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
3. REFER TO LIFE SAFETY PLANS FOR FIRE RATED DESIGNATIONS.
4. REFER TO ENLARGED PLANS FOR ADDITIONAL WALL TAGS, DIMENSIONS AND DETAILS NOT NOTED ON OVERALL FLOOR PLANS.
5. DO NOT SCALE DRAWINGS. VERIFY ALL EXISTING CONDITIONS AT SITE BEFORE PROCEEDING WITH WORK. IF EXISTING CONDITIONS ARE ENCOUNTERED THAT APPEAR DIFFERENT THAN SHOWN OR INDICATED ON THE PLANS, NOTIFY ARCHITECT FOR CLARIFICATION AND FURTHER DIRECTION BEFORE PROCEEDING WITH WORK IN THAT AREA.
6. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.
7. ALL PIPING, CONDUITS AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN PARTITION/WALL ASSEMBLY IN FINISHED AREAS U.N.O.
8. PROVIDE BLOCKING REQUIRED FOR MOUNTING AND ANCHORING WALL AND CEILING MOUNTED ITEMS SUCH AS, BUT NOT LIMITED TO: TOILET ROOM ACCESSORIES, MILLWORK, CASEWORK, HARDWARE, EQUIPMENT, RAILS, AND OTHER SPECIALTIES AND ACCESSORIES.
9. WHERE ACCESS PANELS ARE REQUIRED FOR EQUIPMENT, UTILITIES, OR DEVICES, THOSE PANELS SHALL BE INSTALLED WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS. WHEN INSTALLED IN A FIRE RATED ASSEMBLY, THE ACCESS PANEL MUST BE FIRE RATED TO MATCH THE RATING OF THAT ASSEMBLY. VERIFY ALL LOCATIONS WITH ARCHITECT BEFORE INSTALLING. SEE SPECIFICATIONS FOR ACCESS PANEL REQUIREMENTS.
10. INSTALL ACOUSTIC INSULATION IN ALL FRAMED WALLS CONTAINING PLUMBING PIPES.
11. ALL EXPOSED PIPES, VENTS, AND CONDUITS, PENETRATING WALLS, FLOORS OR CEILINGS SHALL HAVE FINISHED TRIM RINGS (ESCUTCHEONS).
12. ALL STRUCTURAL AND MEP ITEMS ARE SHOWN FOR REFERENCE. REFER TO SPECIFIC DISCIPLINE FOR MORE INFORMATION.
13. ALL EXPOSED STRUCTURE TO RECEIVE PAINT. SEE FINISH PLANS AND REFLECTED CEILING PLANS.

FLOOR PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- NEW INSULATION
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION
- CONSTRUCTION OVERHEAD
- CONSTRUCTION BELOW
- EXPANSION JOINT (EJ)
- CONTROL JOINT (CJ)
- FD FLOOR DRAIN - SEE PLUMBING
- DS DOWNSPOUT
- FB FLOOR BOX - SEE ELECTRICAL

CONSTRUCTION NOTES

1	EXISTING INSULATED WALLS TO REMAIN.
2	NEW CAVITY INSULATION & LINER SYSTEM INSTALLED WITHIN WALL GIRT. TYPICAL AT ALL NON-INSULATED WALL CONDITIONS.
3	NEW METAL WALL PANEL MATCHING EXISTING WALL PANEL PROFILE AT AREA OF EXISTING FAN REMOVAL. NEW WALL PANEL TO EXTEND TO BELOW UPPER RACK FASCIA PROFILE. PREPARE FOR NEW PAINTED FINISH. PROVIDE INTERNAL FRAMING/BLOCKING AS REQUIRED TO ANCHOR PANEL REPAIR.
5	REINSTALL EXISTING CANOPIES AT ORIGINAL LOCATIONS, TYP.
6	SAND, CLEAN & PREPARE ALL METAL DOORS & RAILINGS TO RECEIVE NEW PAINT. COLOR AS SELECTED BY USER. E102
7	EXISTING OVERHEAD DOORS ARE BEING REPLACED BY OWNER UNDER SEPARATE PROJECT - ALL WORK ASSOCIATED TO INSTALL & OPERATION IS NOT IN CONTRACT. CONTRACTOR TO PROVIDE FOAM INSULATION AT DOOR PERIMETER IF NOT PROVIDED BY DOOR INSTALL.
8	REINSTALL ALL ELECTRICAL EQUIPMENT TO PREVIOUS LOCATIONS & CONFIGURATIONS.
9	PROVIDE MECHANICALLY FASTENED MATCHING PROFILED METAL WALL PANEL AT LOCATION OF VENT REMOVAL. PROVIDE SEALANT TAPE AT OVERLAPPED JOINTS & SEAL EDGES.
10	ALL NEW PENETRATIONS THROUGH EXTERIOR METAL WALL PANELS TO BE ALTERED TO PROVIDE A SHINGLE STYLE LAP WITH PANEL COMPONENTS & SEALED TO PROVIDE A WEATHER-TIGHT CONDITION.
11	PRIOR TO INSULATION SYSTEM INSTALLATION, INSTALL 3 ½" METAL STUD FRAMING AT 2'-0" O.C. TO PROVIDE BLOCKING SUPPORT FOR ½" PLYWOOD SHEATHING AT LOWER PORTION OF WALL. SEE SECTIONS.

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Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

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850.942.1718
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Description: Floor Plans

Sheet No.: A1.1

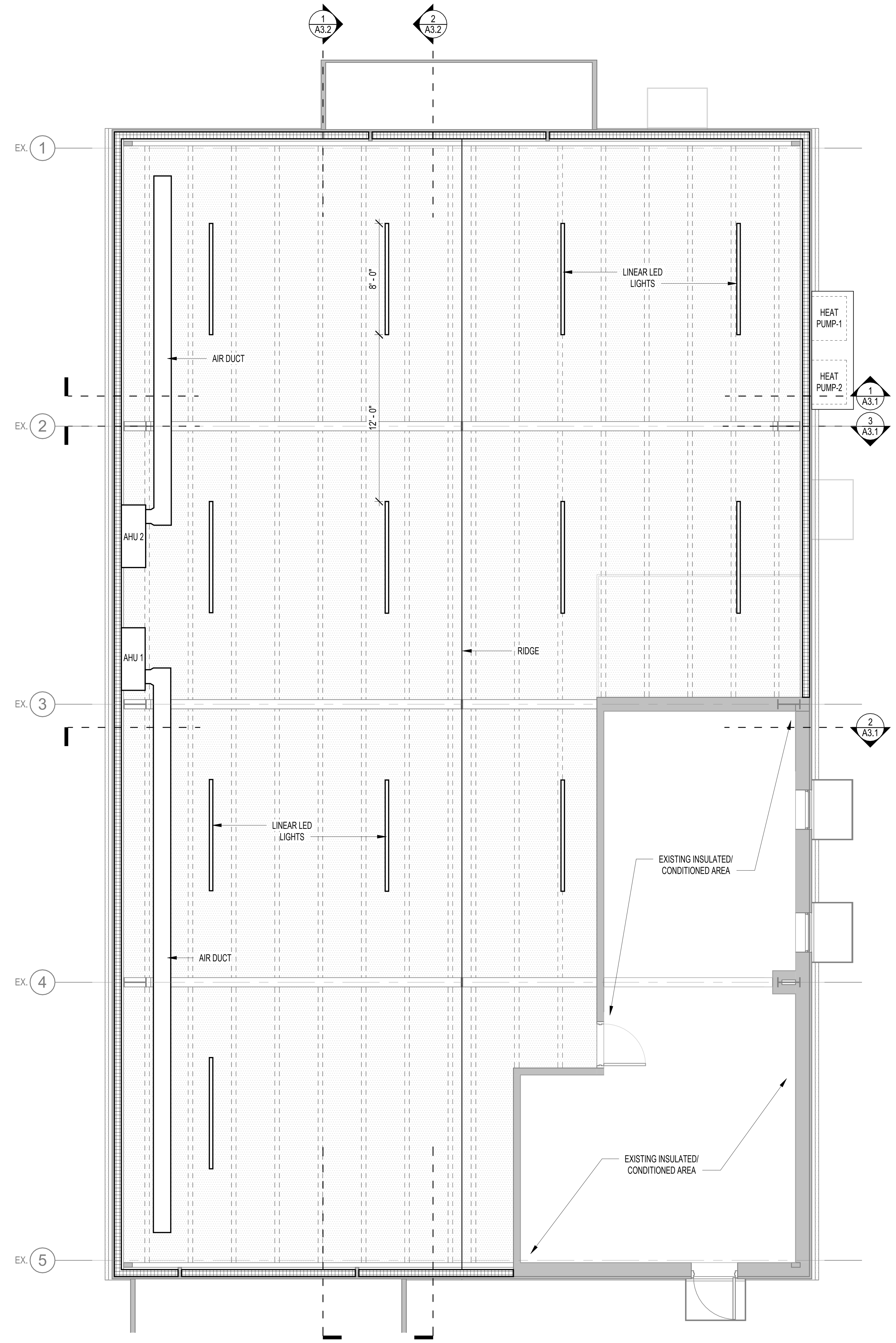
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GENERAL NOTES - REFLECTED CEILING PLAN

1. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED CEILING AND ARE NOTED ON THE DRAWINGS AS (XX'-XX").
2. ACOUSTICAL CEILING GRID SHALL BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.
3. CENTER LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, GRILLES, SPRINKLER HEADS, ELECTRICAL, MECHANICAL AND OTHER DEVICES IN CEILING TILES UNLESS OTHERWISE NOTED.
4. ROWS OF LIGHT FIXTURES TO ALIGN ACROSS ADJACENT AREAS, UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR EXACT FIXTURE TYPES.
5. ALL STRUCTURAL AND MEP ITEMS ARE SHOWN FOR REFERENCE. REFER TO SPECIFIC DISCIPLINE FOR MORE INFORMATION.

REFLECTED CEILING PLAN LEGEND

- ACT - SEE FINISH SCHEDULE
- OPEN TO STRUCTURE ABOVE
- VINYL COVER
- DIFFUSER - SUPPLY
- DIFFUSER - RETURN
- DIFFUSER - LINEAR
- EXHAUST
- EXIT SIGN
- LIGHT FIXTURE - 2' X 4' TROFFER
- LINEAR PENDANT LIGHT FIXTURES
- LIGHT FIXTURE - RECESSED



1 REFLECTED CEILING PLAN
3/16" = 1'-0"

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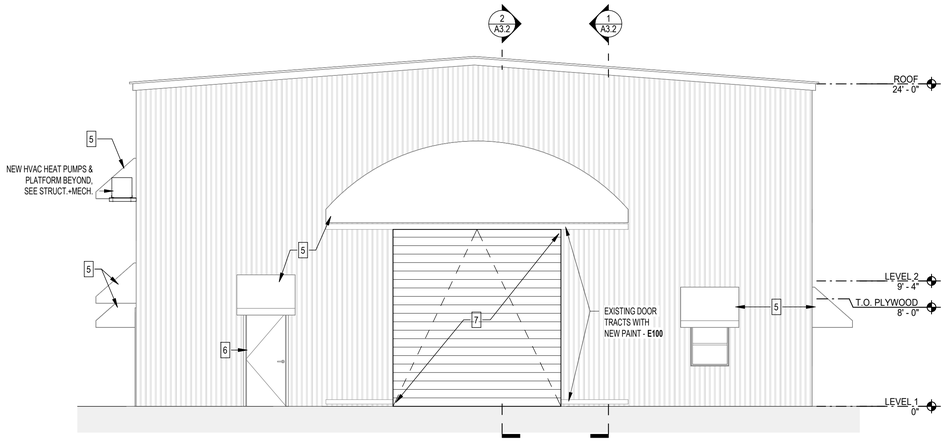
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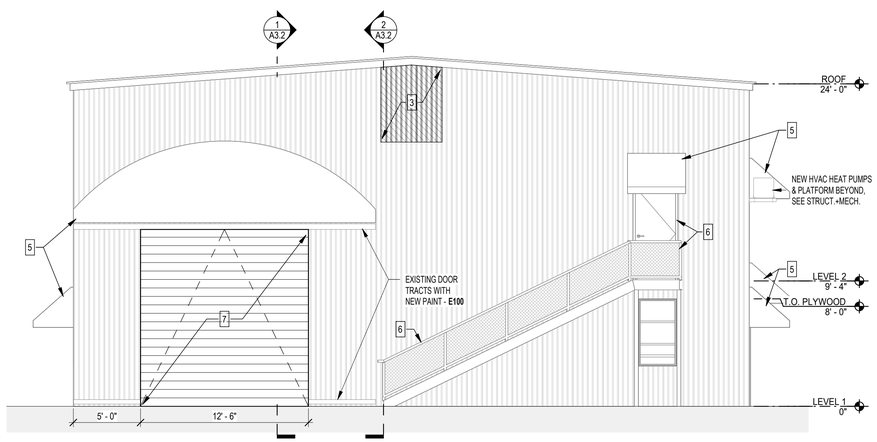
Description: Reflected Ceiling Plan

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4 NORTH ELEVATION (LOOKING SOUTH)
3/16" = 1'-0"



3 SOUTH ELEVATION (LOOKING NORTH)
3/16" = 1'-0"

SMALL HOLE < ¼"

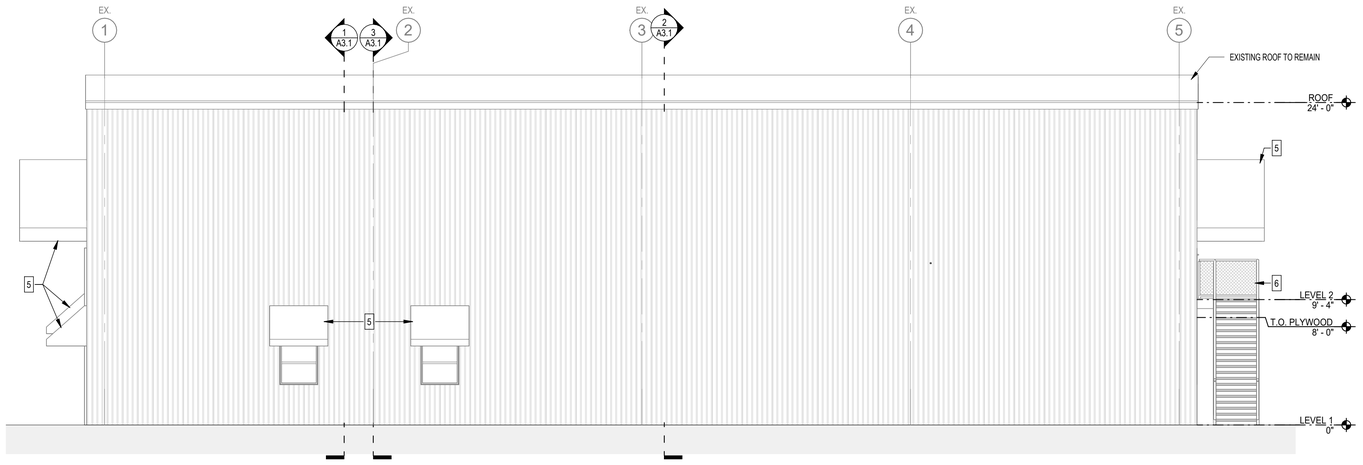


MEDIUM/STRETCHED HOLE < ¼" TO 1"

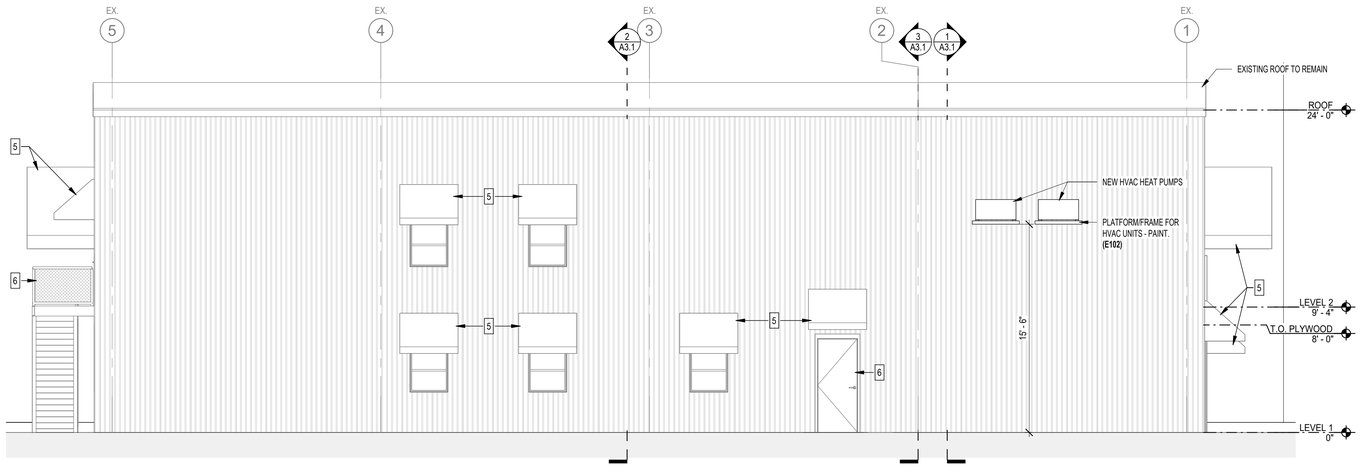


LARGE TEARS/HOLES HOLE > 1"





2 WEST ELEVATION (LOOKING EAST)
3/16" = 1'-0"



1 EAST ELEVATION (LOOKING WEST)
3/16" = 1'-0"

CONSTRUCTION NOTES

3	NEW METAL WALL PANEL MATCHING EXISTING WALL PANEL PROFILE AT AREA OF EXISTING FAN REMOVAL. NEW WALL PANEL TO EXTEND TO BELOW UPPER RACK FASCIA PROFILE. PREPARE FOR NEW PAINTED FINISH. PROVIDE INTERNAL FRAMING/BLOCKING AS REQUIRED TO ANCHOR PANEL REPAIR.
5	REINSTALL EXISTING CANOPIES AT ORIGINAL LOCATIONS, TYP.
6	SAND, CLEAN & PREPARE ALL METAL DOORS & RAILINGS TO RECEIVE NEW PAINT. COLOR AS SELECTED BY USER. E102
7	EXISTING OVERHEAD DOORS ARE BEING REPLACED BY OWNER UNDER SEPARATE PROJECT - ALL WORK ASSOCIATED TO INSTALL & OPERATION IS NOT IN CONTRACT. CONTRACTOR TO PROVIDE FOAM INSULATION AT DOOR PERIMETER IF NOT PROVIDED BY DOOR INSTALL.

EXTERIOR FINISH LEGEND

FINISH	TAG	DESCRIPTION
	E100	**METAL STANDING SEAM PANEL** EXISTING - **NEW PAINT** COLOR: TBD
	E101	**METAL ROLL-UP DOOR** EXISTING COLOR: EXISTING
	E102	**METAL RAILINGS, STAIRS & DOOR/FRAME** EXISTING - **NEW PAINT** COLOR: TBD
	E103	**MESH METAL GRATE (HANDRAILS)** EXISTING - **NEW PAINT** COLOR: TBD

NOTE: TYPICAL MATERIAL NOTES ARE GENERALLY NOTED ONLY ONCE PER SHEET OR DRAWING TYPE. THESE NOTES ARE TYPICAL FOR SIMILAR CONDITIONS AND WILL NOT BE NOTED IN EVERY LOCATION OR DETAIL.

NOTE: ALL LOOSE/PEELING PAINT MATERIAL, SEALANTS & MISC. ATTACHMENTS TO BE REMOVED FROM EXTERIOR METAL PANELS. ANY HOLES CREATED FROM REMOVAL OF AN ITEM TO BE PATCHED/COVERED WITH MATCHING PROFILE OF EXTERIOR METAL PANELS PRIOR TO PAINT.
AFTER REMOVAL OF ALL CANOPIES AND COMPLETION OF OPENING REPAIRS, PRESSURE WASH EXISTING BUILDING, RAILINGS, STAIRS & CANOPIES THAT HAVE BEEN REMOVED WITH CLEANING PRODUCTS TO REMOVE DIRT, MOLD, & MILDEW. SCRAPE ANY REMAINING LOOSE PAINT/DEBRIS. PRIME EXISTING BUILDING, RAILINGS, STAIRS & DOORS. PROVIDE FINISH COAT(S) PER SPECIFICATIONS. PROVIDE NEW SEALANT AT ALL WINDOW & DOOR PERIMETERS, CORNERS & OTHER MATERIAL TRANSITIONS AND OPENINGS.

NOTE:
REPAIR METHODS (BY HOLE TYPE)

SMALL HOLES < ¼"
REPLACE THE MISSING/OLD SCREW WITH A SLIGHTLY LARGER 'STITCHING SCREW' FITTED W/ A FRESH EPDM/NEOPRENE BONDED SEALING WASHER. MAKE SURE TO ESTABLISH A TIGHT MECHANICAL SEAL.

MEDIUM/STRETCHED HOLE < ¼" TO 1"
USE A MECHANICAL METAL PATCH, CUT A 2" TO 3" SQUARE OF MATCHING PROFILED METAL PANEL. APPLY A LIBERAL BEAD OF METAL ROOFING SEALANT ON THE BACK, PRESS IT OVER THE HOLE, AND SECURE W/ SHORT PAN HEAD SHEET METAL SCREWS ALONG THE EDGES.

LARGE TEARS/HOLES > 1"
IF THE MEDIUM HOLE REPAIR IS NOT APPROPRIATE, CUT OUT THE DAMAGED SECTION, AND INSTALL A MATCHING METAL WALL PANEL PATCH. PROVIDE PATCH THAT IS MINIMUM 1 1/2" LARGER ON EACH SIDE OF PORTION REMOVED. APPLY LIBERAL BEAD OF METAL ROOFING SEALANT AND PRESS IT OVER THE HOLE, AND SECURE W/ SHORT PAN-HEAD SHEET METAL SCREWS ALONG THE EDGES.

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Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

FSU

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Elevations

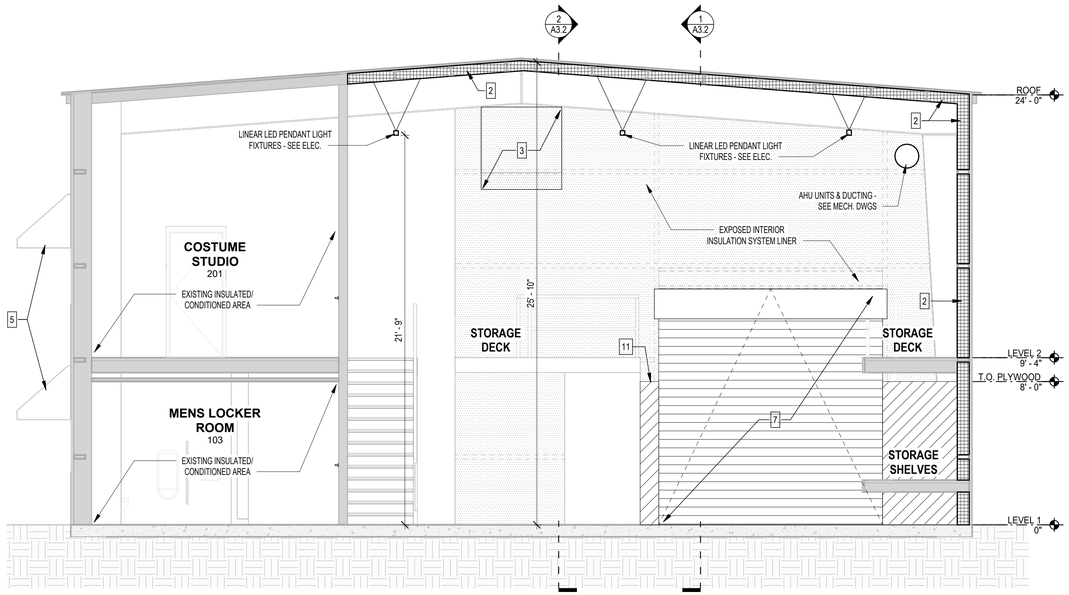
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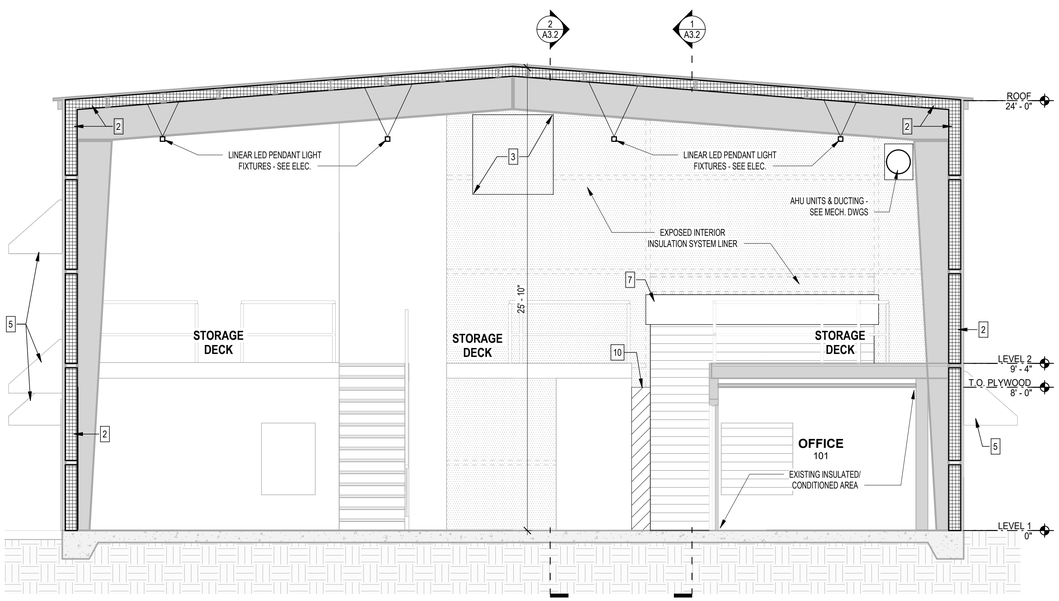
PHOTO OF EXISTING RAKE CONDITION:



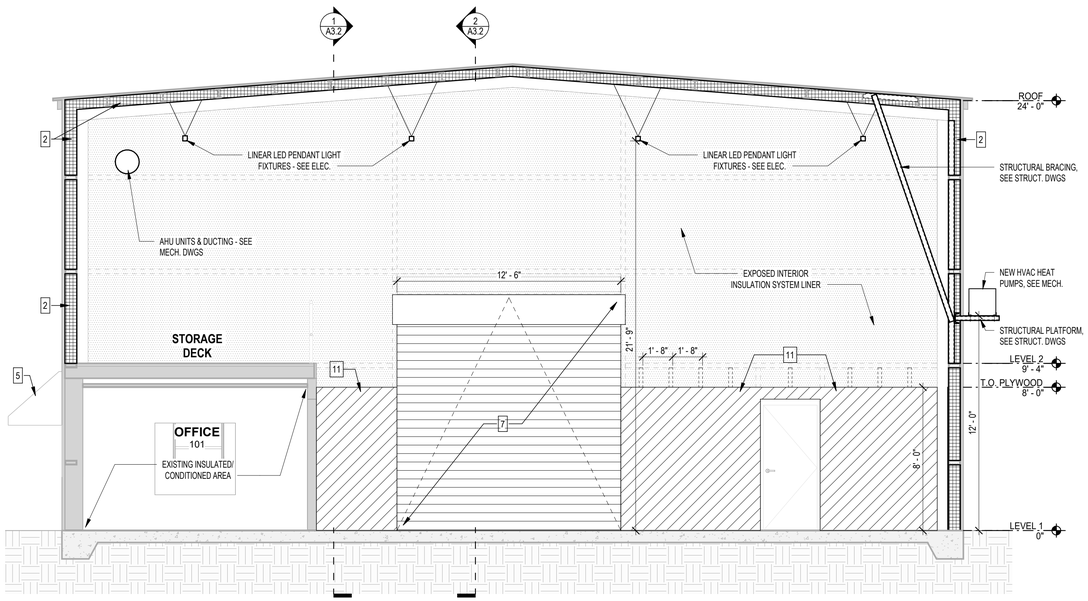
NOTE: PROVIDE NEW CLOSURE MATERIAL AT RAKE ROOF EDGE AFTER BUILDING IS WASHED/CLEANED & PRIOR TO PAINTING.



2 SECTION LOOKING SOUTH 1
1/4" = 1'-0"



3 SECTION LOOKING SOUTH 2
1/4" = 1'-0"



1 SECTION LOOKING NORTH
1/4" = 1'-0"

CONSTRUCTION NOTES

2	NEW CAVITY INSULATION & LINER SYSTEM INSTALLED WITHIN WALL GIRT. TYPICAL AT ALL NON-INSULATED WALL CONDITIONS.
3	NEW METAL WALL PANEL MATCHING EXISTING WALL PANEL PROFILE AT AREA OF EXISTING FAN REMOVAL. NEW WALL PANEL TO EXTEND TO BELOW UPPER RACK FASCIA PROFILE. PREPARE FOR NEW PAINTED FINISH. PROVIDE INTERNAL FRAMING/BLOCKING AS REQUIRED TO ANCHOR PANEL REPAIR.
5	REINSTALL EXISTING CANOPIES AT ORIGINAL LOCATIONS, TYP.
7	EXISTING OVERHEAD DOORS ARE BEING REPLACED BY OWNER UNDER SEPARATE PROJECT - ALL WORK ASSOCIATED TO INSTALL & OPERATION IS NOT IN CONTRACT. CONTRACTOR TO PROVIDE FOAM INSULATION AT DOOR PERIMETER IF NOT PROVIDED BY DOOR INSTALL.
10	ALL NEW PENETRATIONS THROUGH EXTERIOR METAL WALL PANELS TO BE ALTERED TO PROVIDE A SHINGLE STYLE LAP WITH PANEL COMPONENTS & SEALED TO PROVIDE A WEATHER-TIGHT CONDITION.
11	PRIOR TO INSULATION SYSTEM INSTALLATION, INSTALL 3 ⅝" METAL STUD FRAMING AT 2'-0" O.C. TO PROVIDE BLOCKING SUPPORT FOR ¾" PLYWOOD SHEATHING AT LOWER PORTION OF WALL. SEE SECTIONS.

INTERIOR FINISH LEGEND

FINISH	TAG	DESCRIPTION
	E100	**METAL STANDING SEAM PANEL** *EXISTING* *COLOR: ?*
	E101	**METAL ROLL-UP DOOR** MANUFACTURER *COLOR: ?*
	E102	**VINYL FACED COVER OVER INSUL. SYSTEM** *MANUFACTURER* *COLOR:*
	E103	**MAUNUFACTURED WOOD** *MANUFACTURER* *COLOR:*

NOTE: TYPICAL MATERIAL NOTES ARE GENERALLY NOTED ONLY ONCE PER SHEET OR DRAWING TYPE. THESE NOTES ARE TYPICAL FOR SIMILAR CONDITIONS AND WILL NOT BE NOTED IN EVERY LOCATION OR DETAIL.

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Client: Florida State University

Consultant:

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Project #: 19370.76
Phase: 100% Construction Documents

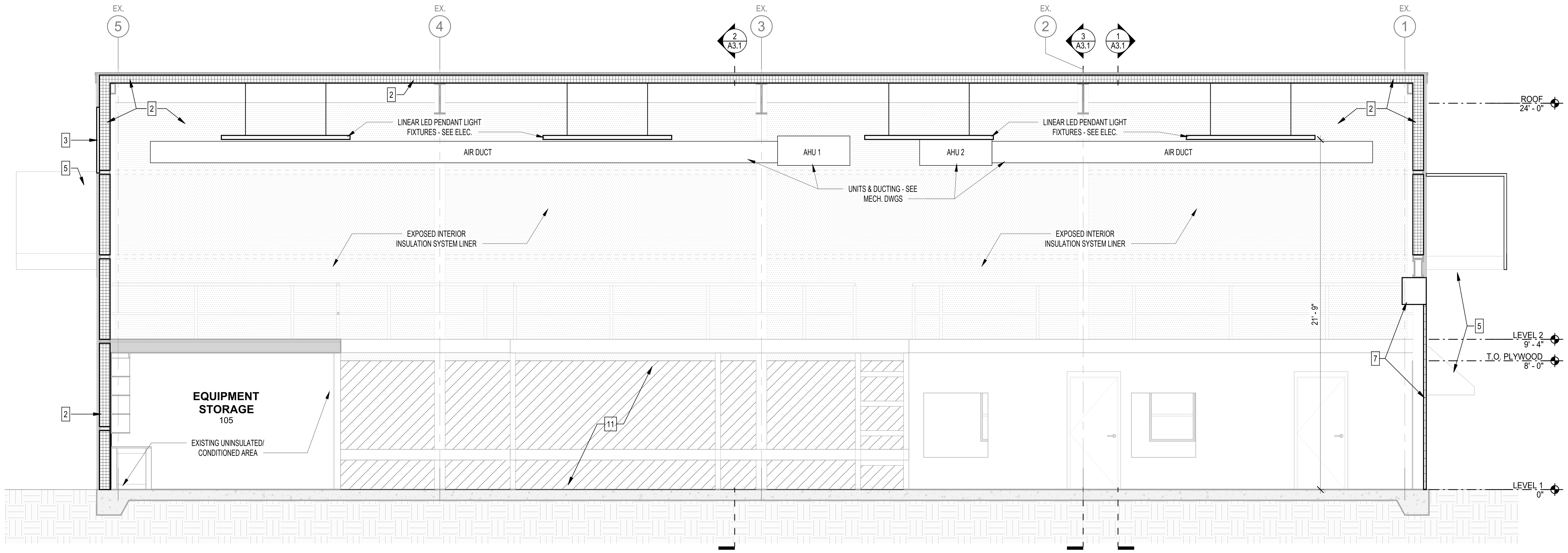
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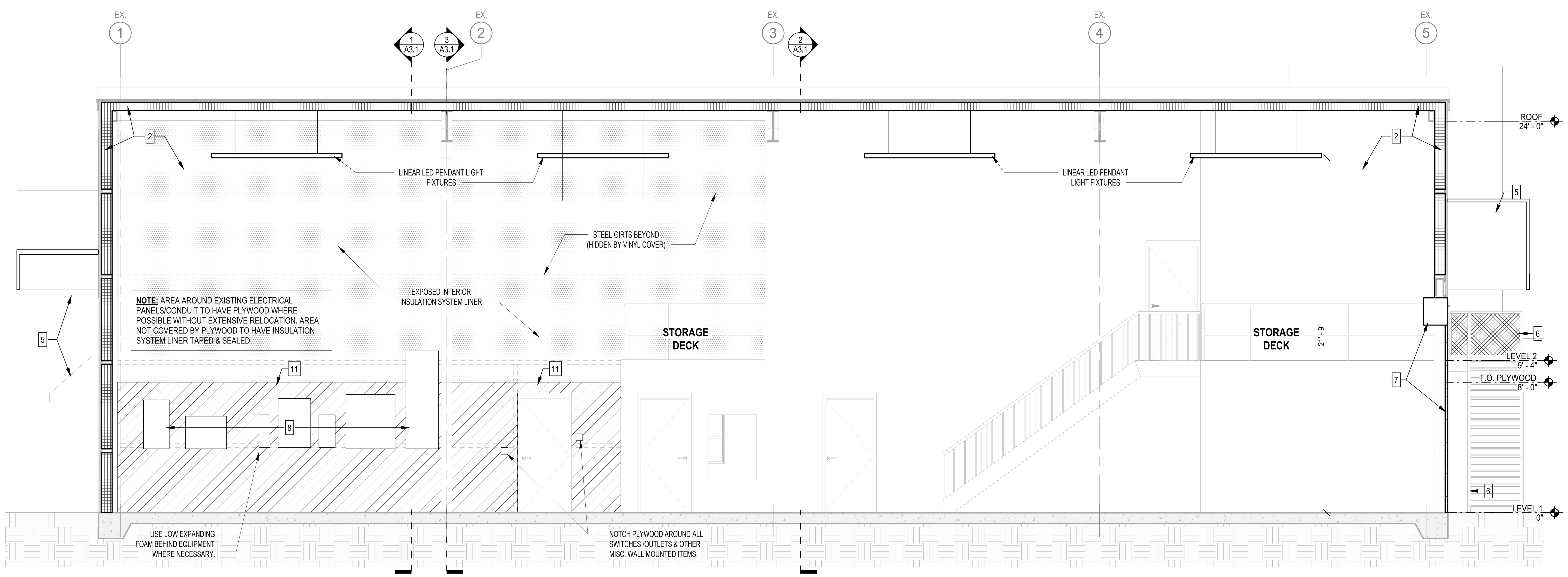
Description: Building Sections

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2 SECTION LOOKING WEST
1/4" = 1'-0"



1 SECTION LOOKING EAST
1/4" = 1'-0"

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CONSTRUCTION NOTES

2	NEW CAVITY INSULATION & LINER SYSTEM INSTALLED WITHIN WALL GIRT. TYPICAL AT ALL NON-INSULATED WALL CONDITIONS.
3	NEW METAL WALL PANEL MATCHING EXISTING WALL PANEL PROFILE AT AREA OF EXISTING FAN REMOVAL. NEW WALL PANEL TO EXTEND TO BELOW UPPER RACK FASCIA PROFILE. PREPARE FOR NEW PAINTED FINISH. PROVIDE INTERNAL FRAMING/BLOCKING AS REQUIRED TO ANCHOR PANEL REPAIR.
5	REINSTALL EXISTING CANOPIES AT ORIGINAL LOCATIONS, TYP.
6	SAND, CLEAN & PREPARE ALL METAL DOORS & RAILINGS TO RECEIVE NEW PAINT. COLOR AS SELECTED BY USER. E102
8	REINSTALL ALL ELECTRICAL EQUIPMENT TO PREVIOUS LOCATIONS & CONFIGURATIONS.
11	PRIOR TO INSULATION SYSTEM INSTALLATION, INSTALL 3 ⅝" METAL STUD FRAMING AT 2'-0" O.C. TO PROVIDE BLOCKING SUPPORT FOR ¾" PLYWOOD SHEATHING AT LOWER PORTION OF WALL. SEE SECTIONS.

INTERIOR FINISH LEGEND

FINISH	TAG	DESCRIPTION
	E100	**METAL STANDING SEAM PANEL** *EXISTING* *COLOR: ?*
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NOTE: TYPICAL MATERIAL NOTES ARE GENERALLY NOTED ONLY ONCE PER SHEET OR DRAWING TYPE. THESE NOTES ARE TYPICAL FOR SIMILAR CONDITIONS AND WILL NOT BE NOTED IN EVERY LOCATION OR DETAIL.

NOTE: AREA AROUND EXISTING ELECTRICAL PANELS/CONDUIT TO HAVE PLYWOOD WHERE POSSIBLE WITHOUT EXTENSIVE RELOCATION. AREA NOT COVERED BY PLYWOOD TO HAVE INSULATION SYSTEM LINER TAPED & SEALED.

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Tallahassee, Florida

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Phase: 100% Construction Documents

Seal:

ALW
Architects Lewis + Whitlock
206 West Virginia St.
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Description: Building Sections

Sheet No.: A3.2

LEGEND (ALL MAY NOT APPLY)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SA/RA TAKE-OFF WITH RIGID DUCT TAKE-OFF W/ DAMPER	#	DEMOLITION KEYNOTE	M	MOTORIZED CONTROL VALVE
	SA/RA TAKE-OFF WITH FLEX TAKE-OFF W/ DAMPER	#	KEYNOTE		BALANCING VALVE
BD	BACKDRAFT DAMPER		AIR HANDLING UNIT (VERTICAL/HORIZONTAL)		SHUT-OFF/ISOLATION VALVE
BARO	DUCT MOUNTED BAROMETRIC DAMPER		CEILING RECESSED AIR HANDLER		CHECK VALVE
TS	DUCT MOUNTED TEMPERATURE SENSOR		WALL MOUNT AIR HANDLER		STRAINER
SD	DUCT MOUNTED SMOKE DAMPER		1 OR 4-WAY CEILING MOUNT CASSETTE AIR HANDLER		PUMP
M	DUCT MOUNTED MOTORIZED DAMPER	BCU-#	BC CONTROLLER	T	TEMPERATURE SENSOR
H	DUCT MOUNTED HUMIDITY SENSOR	CU/HP-#	CONDENSING UNIT HEAT PUMP	DG UC	DOOR GRILLE AND 1" UNDERCUT
FD	DUCT MOUNTED FIRE DAMPER	EF-#	CEILING MOUNTED EXHAUST FAN	C	CONDENSATE DRAIN PIPE
FD/SD	COMBINATION FIRE/SMOKE DAMPER		CONNECT TO EXISTING AT THIS POINT	C	CLEAN-OUT IN CD
	DUCT FLOW METER		DEMOLISH BACK TO THIS POINT		CD TRAP (REFER TO DETAIL)
SD	DUCT MOUNTED SMOKE DETECTOR		ACCESS PANEL	REF	INSULATED REFRIGERANT LINES
	DUCT CONTINUES UP		UNION		THERMOMETER
	DUCT CONTINUES UP (ALT)		FLEXIBLE CONNECTION		PRESSURE GAUGE
	SUPPLY DIFFUSER			T	THERMOSTAT
	RETURN GRILLE			S	SENSOR - ZONE SENSOR
	EXHAUST GRILLE			TS	TEMPERATURE SENSOR
	SQUARE TO ROUND TRANSITION			CO	CARBON MONOXIDE SENSOR
				CO2	CARBON DIOXIDE SENSOR

SUPPLY/RETURN DUCT
FIRST DIMENSION = WIDTH
SECOND DIMENSION =HEIGHT — W x H

SUPPLY/RETURN DUCT
ROUND PIPE
D=INSIDE DIAMETER DIMENSION — DØ

DEMOLITION HATCH INDICATION

EQUIPMENT, PIPE, DUCT, FITTINGS, ETC TO BE DEMOLISHED WILL BE INDICATED SPECIFICALLY OR BY HATCHED MARKING.

AIR DISTRIBUTION DEVICE TAG

A — DEVICE TAG
110 — AIRFLOW (CFM)
6x6 — DEVICE SIZE

ABBREVIATIONS (ALL MAY NOT APPLY)

AHU	AIR HANDLING UNIT	EA	EXHAUST AIR	MBH	1,000 BTUS PER HOUR
BTU	BRITISH THERMAL UNIT	EAT	ENTERING AIR TEMPERATURE	MFG.	MANUFACTURER
CD	CONDENSATE	EF	EXHAUST FAN	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	ESP	EXTERNAL STATIC PRESSURE (In W.C.)	RA	RETURN AIR
CHWS	CHILLED WATER SUPPLY	EWT	ENTERING WATER TEMPERATURE	RAG	RETURN AIR GRILLE
CHWR	CHILLED WATER RETURN	EX	EXISTING	RND	ROUND
CRAH	COMPUTER ROOM AIR HANDLER	FD	FIRE DAMPER	RPM	REVOLUTIONS PER MINUTE
CRCU	COMPUTER ROOM CU	FPI	FINS PER INCH	SA	SUPPLY AIR
CHS	CONDENSING UNIT	GPM	GALLONS PER MINUTE	SD	SMOKE DAMPER
CWS	CHILLED WATER SUPPLY	HHWS	HEATING HOT WATER SUPPLY	SM	SURFACE MOUNTED
ΔP	DIFFERENCE IN PRESSURE	HHWR	HEATING HOT WATER RETURN	SS	STAINLESS STEEL
ΔT	DIFFERENCE IN TEMPERATURE	HP	HEAT PUMP	TSP	TOTAL STATIC PRESSURE
DB	DRY BULB TEMPERATURE (DEG. F)	HWS	HOT WATER SUPPLY	UNO	UNLESS NOTED OTHERWISE
DEG. F	DEGREES FAHRENHEIT	In W.C.	INCHES OF WATER COLUMN	V/PZ	VOLT/PHASE
DDC	DISTRIBUTED DIGITAL CONTROLS	LAT	LEAVING AIR TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
DN	DOWN	LWT	LEAVING WATER TEMPERATURE	WB	WET BULB TEMPERATURE (DEG. F)

DUCT INSULATION SCHEDULE

DUCT TYPE	OUTDOORS	CONCEALED INDOORS, ABOVE CEILINGS, IN PLENUMS, OR IN SHAFTS	EXPOSED INDOORS	NOTES
SUPPLY / OA / MUA	R-8 + OUTDOOR PROTECTION	R-4.2	R-4.2 INTERNAL LINER	1-4
RA / TOILET EX. / GENERAL EX.	R-8 + OUTDOOR PROTECTION	NONE, UNO	NONE, UNO	1-5
STAIR / ELEVATOR PRESSURIZATION MUA	2 HR FIREWRAP + OUTDOOR PROTECTION	2 HR FIREWRAP	N/A	1,2,6,7
GREASE / GENERATOR RADIATOR EX.	2 HR FIREWRAP + OUTDOOR PROTECTION	2 HR FIREWRAP	N/A	1,2,6,7
SMOKE EX.	N/A	NONE	N/A	--
FIREPLACE FLUE EX.	COORD. WITH FIREPLACE FLUE MAN.	COORD. W/ MANU.	N/A	8
FLEX DUCT (ANY)	N/A	R-4.2	N/A	--

NOTES:
1. FIBERGLASS DUCT INSULATION CHARACTERISTICS SHALL BE AS NOTED IN GENERAL NOTES.
2. INSULATION THICKNESS AND DENSITY CAN VARY. R-VALUES ARE MINIMUM "INSTALLED" VALUES, NOT "OUT OF PACKAGE" VALUES AND MUST BE MET OR EXCEEDED.
3. ALL EXPOSED DUCTWORK LOCATED IN CONDITIONED SPACES SHALL BE INTERNALLY LINED, NOT EXTERNALLY INSULATED, UNO. SEE ADDITIONAL NOTES AND DETAILS ON THESE PLANS FOR MORE INFORMATION.
4. PROVIDE DUCT LINER WHERE NOTED ON THESE PLANS.
5. INSULATED ANY EXHAUST DUCTS LOCATED WITHIN 10 FEET OF THE EXTERIOR TERMINATION (WALL/ROOF CAP/ LOUVER) WITH MIN. R-4.2 DUCT WRAP. EXHAUST DUCTS LOCATED INSIDE SHAFTS CAN BE UNINSULATED, UNO. INSULATED PLENUMS BEHIND WALL LOUVERS WITH SAME R-VALUE INSULATION AS EXHAUST DUCT.
6. SEE GREASE DUCT AND INSULATION NOTES ON THIS SHEET FOR ADDITIONAL REQUIREMENTS FOR 2 HR FIREWRAP INSULATION.
7. OUTDOOR DUCTWORK REQUIRED TO HAVE 2 HOUR FIRE WRAP SHALL REPLACE THE EXTRUDED POLYSTYRENE INSULATION WITH FIREWRAP INSULATION. THE WEATHER PROTECTION COATING (POLYGUARD) SHALL BE APPLIED TO OUTER SURFACE OF FIRE WRAP.
8. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND OTHER REQUIREMENTS FOR FLUE EXHAUST.

CODE REFERENCE

ALL MAY NOT APPLY

THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

FBC, BUILDING	FLORIDA BUILDING CODE 8TH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE 8TH EDITION
FBC, EXISTING	FLORIDA BUILDING CODE 8TH EDITION
FBC, FUEL GAS	FLORIDA BUILDING CODE 8TH EDITION
FBC, ENERGY CONSERVATION	FLORIDA BUILDING CODE 8TH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION
NFPA 54	NATIONAL FUEL GAS CODE
NFPA 101	LIFE SAFETY CODE
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY
NFPA 101B	CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES
NFPA 900	BUILDING ENERGY CODE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ADA	AMERICANS WITH DISABILITIES ACT
UL	UNDERWRITERS LABORATORIES

THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.

CONDENSATE PIPING

1. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.

2. ALL CONDENSATE DRAIN PIPE SYSTEMS SHALL HAVE A BUILT TRAP AT EACH PIECE OF EQUIPMENT PER DETAILS.

3. ALL LINES SHALL BE INSULATED WITH 1/2" ARMAFLEX FROM EQUIPMENT TO APPROVED DISPOSAL POINT OR OUTSIDE AT GRADE IN COMPLIANCE WITH FBC-M 307.2.1. OUTSIDE DISPOSAL AT EARTH SHALL BE MINIMUM 1 FOOT AWAY FROM BUILDING STRUCTURE AND FOUNDATION.

4. TRAP AIR CONDITIONING CONDENSATE AND RUN TO LOCATION SHOWN ON PLANS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRST 12" OF CONDENSATE PIPE, INCLUDING TRAP. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDENSATE PIPE AFTER 12" OF PIPE FROM THE UNIT, UP TO AND INCLUDING CONDENSATE TERMINATION.

5. IF OTHERWISE UNSPECIFIED, TERMINATE CONDENSATE INTO STORM CONNECTION, OR ARCHITECT-APPROVED GRAVEL PATCH OR DRYWELL AT LEAST 12" AWAY FROM BUILDING.

6. PROVIDE CONDENSATE SAFETY SWITCH AND UNIT SHUTOFF SEQUENCE IN THE EVENT OF CONDENSATE OVERFLOW OR BACKUP.

7. CONDENSATE DRAIN SIZING (PER FBC-M TABLE 307.2.2)

UP TO 20 TONS	3/4" DIAMETER
21 TO 40 TONS	1"DIAMETER
41 TO 90 TONS	1 1/4"DIAMETER
91 TO 125 TONS	1 1/2" DIAMETER
126 TO 250 TONS	2" DIAMETER

251 AND ABOVE SIZED BASED ON ACTUAL FLOW

REFRIGERANT PIPING

1. BELOW FINISHED FLOOR: COPPER TUBING - TYPE "K" SOFT ANNEALED TEMPER, NO JOINTS BELOW GRADE.

2. ABOVE FINISHED FLOOR: COPPER TUBING - TYPE "L"HARD DRAWN TEMPER WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS AT 1100 DEG F; FLUX MATERIAL NOT ALLOWED.

3. SUCTION LINES SHALL BE INSULATED WITH MINIMUM 3/4" ARMAFLEX INSULATION WITH TAPED JOINTS. INSULATION SHALL ALWAYS COMPLY WITH FBC-EC 403.2.10. HANGERS STRAPS OR SADDLES SHALL NOT COMPRESS INSULATION BELOW REQUIRED SIZE.

4. EXTERIOR PIPING INSULATION SHALL BE PROTECTED FROM UV RADIATION. COVER ALL EXTERIOR REFRIGERANT LINES WITH ALUMINUM JACKET, INSTALLED TO SHED WATER AND SECURED WITH STAINLESS STEEL BANDS 12" O.C.

5. SYSTEMS SHALL BE PLACED UNDER A VACUUM FOR REMOVAL OF NON-CONDENSABLES PRIOR TO BEING PUT INTO SERVICE.

6. SYSTEMS SHALL BE VACUUM TESTED AND PRESSURE TESTED USING NITROGEN PRIOR TO BEING PUT INTO SERVICE.

7. PIPES SHALL BE SIZED BY THE EQUIPMENT MFG.

8. ALL A2L REFRIGERANT LINES CONCEALED WITHIN BUILDING ELEMENTS OR CONCEALED BETWEEN STRUCTURAL ELEMENTS SHALL BE PROTECTED WITH STEEL PLATES, EXTENDING 2" BEYOND THE REFRIGERANT LINE OUTER EDGES. INSTALL ALL A2L REFRIGERANT LINES AT LEAST 1-1/2" FROM ANY FRAMING, SHEATHING, CEILING ELEMENT, OR EXTERIOR SURFACE. A2L IS CLASSIFIED AS LOW-TOXICITY AND MILD FLAMABILITY, IDENTIFY AND PROTECT FROM ACCIDENTAL PUNCTURES. ROUTE ACCORDING TO SAFETY INSTRUCTIONS, SEE DISPERSION CALCULATION TABLE.

GENERAL NOTES

ALL MAY NOT APPLY

1. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.

2. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND OR PROJECT CONDITIONS.

3. THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

4. CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

5. ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.

6. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.

7. PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.

8. DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.

9. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.

10. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT ROOMS.

11. ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN WHO ARE TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE PROJECT.

12. ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPA REGULATIONS AND GUIDELINES.

13. THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.

14. REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS, AND BARRICADES FOR PEDESTRIANS.

15. COORDINATE ALL DEMOLITION, CLEANING, AND CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE OWNER A FULL CONSTRUCTION SCHEDULE.

16. CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.

18. ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.

19. IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.

20. SUPPORTS, HANGERS, WIRING, AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.

21. FOR LOCAL WIND RATING, SEE DESIGN CRITERIA

22. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.

23. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES.

24. STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR, OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

25. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.

26. VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.

MECHANICAL GENERAL NOTES

ALL MAY NOT APPLY

1. ONLY NEW EQUIPMENT SHALL BE PROVIDED UNLESS INDICATED AS EXISTING TO REMAIN.

2. ALL CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE REGIONS FOR VIBRATION ISOLATION.

3. ALL EQUIPMENT SHALL BE LABELED SO THAT USERS CAN IDENTIFY EACH PIECE OF EQUIPMENT. LABELS SHALL BE CONSISTENT WITH EQUIPMENT TAGS THAT ARE LISTED IN THE SCHEDULES WITHIN THESE DOCUMENTS. ANY ABOVE CEILING EQUIPMENT SHALL HAVE A LABEL PROVIDED ON THE CEILING BELOW THE UNIT FOR EASE OF LOCATING BY MAINTENANCE PERSONNEL.

4. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.

5. INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE CEILING.

6. COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL EQUIPMENT SO THAT THE REQUIRED CODE CLEARANCES TO ELECTRICAL EQUIPMENT IS MAINTAINED.

7. DUCTWORK AND PIPING INSTALLATIONS SHALL ALLOW FOR EQUIPMENT RECOMMENDED MAINTENANCE CLEARANCES. CONVENIENT ACCESS FOR REMOVAL OF FILTERS SHALL BE MAINTAINED.

8. MATERIALS INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE AND PLENUM RATED OR WRAPPED, FIRE25/SMOKE50.

9. COORDINATE THE PLACEMENT AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND LIGHTING LAYOUT.

10. THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.

11. AT THE ONSET OF TEST AND BALANCE ACTIVITIES PROVIDE NEW FILTERS TO ALL UNITS. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. SEAL ALL OPEN ENDED DUCTS DURING CONSTRUCTION.

12. ENSURE ALL EQUIPMENT HAS BEEN CLEANED AT THE END OF THE PROJECT.

13. DO NOT LOCATE AIR INTAKES CLOSER THAN 10 FEET FROM ANY VENT OR EXHAUST OUTLETS. ROUTE TOILET EXHAUST TO LOCATION SHOWN ON PLANS. WALL CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BACKDRAFT DAMPER, AS PER FBC M504.2

14. PROVIDE FIRE DAMPER IF SHOWN ON PLANS, WHERE DUCT PENETRATES FIRE-RATED CONSTRUCTION. ATTACH 1/2" OR LARGER TEXT LABELING THE DAMPER ACCESS LOCATION(S). EQUIVALENT APPLIES FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER.

15. INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIVISION 26) IN SUPPLY AIR DUCT BEFORE ANY TAKE OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY OF 2000 CFM OR GREATER.

16. WHERE FIRE, SMOKE, COMBINATION FIRE SMOKE DAMPERS CONTROL DAMPERS, VALVES, COILS OR OTHER DEVICE NEEDING ACCESS ARE INSTALLED, PROVIDE DUCT ACCESS DOORS. WHERE INSTALLED IN INACCESSIBLE LOCATIONS, PROVIDE CEILING/WALL ACCESS PANELS. PANELS LOCATED IN RATED ASSEMBLIES SHALL BEAR A UL RATING. COORDINATE LOCATION OF SUCH ACCESS WITH ARCHITECT PRIOR TO INSTALLATION.

17. PROVIDE MEANS OF TEST AND BALANCE IN ALL TAKE OFF FITTINGS OF SUPPLY EXHAUST, RETURN SYSTEMS AND AT EACH POINT WHERE A BRANCH SERVES TWO OR MORE GRILLES, WHETHER SHOWN ON THE PLANS OR NOT.

18. WHERE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCH TAKES PRECEDENCE. CONTROLLERS SHALL BE MOUNTED ADJACENT AND WITHIN 48" AFF.

19. LOCATE WIRED THERMOSTAT ADJACENT TO SWITCH, WHERE POSSIBLE. INSTALL CONTROLS INTERFACE WITHIN 48" AFF.

20. THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE TO THE ARCHITECT/ENGINEER THAT THERE HAS BEEN A FACE-TO-FACE MEETING WITH THE MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS TO COORDINATE THEIR WORK. THIS MUST BE DONE PRIOR TO THE ORDERING OF ANY EQUIPMENT AND SHALL SERVE TO MATCH THE VOLTAGE, PHASE, AMPS, MCA, AND MCOP OF THE EQUIPEMENT WITH THE DESIGNED ELECTRICAL CHARACTERISTICS.

21. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL DRAWINGS PRIOR TO PROVIDING SUBMITTALS OR PURCHASING EQUIPMENT.

22. PRODUCE MANUFACTURER'S INSTALLATION INSTRUCTION AT INSPECTION PER FBC-M304.1:
A. AIR DISTRIBUTION: PRICE, METALAIRE, TITUS
B. FANS: PENNBERRY, GREENHECK, BROAN, PANASONIC, COOK
C. LOUVERS: GREENHECK, RUSKIN, POTTORFF
D. SPLIT A/C EQUIPMENT: LENNOX, TRANE, CARRIER, DAIKIN, LG
E. ROOFTOP A/C EQUIPMENT: LENNOX, TRANE, CARRIER, YORK, DAIKIN

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M0.1	MECHANICAL NOTES & LEGENDS
M1.0D	MECHANICAL DEMOLITION FLOOR PLAN
M1.1	HVAC RENOVATION FLOOR PLAN
M6.1	HVAC DETAILS & SCHEDULES

DUCTWORK SPECIFICATIONS

1.SHEET METAL DUCTWORK

1.1. DUCT MATERIAL CLASS "A" GALVANIZED STEEL OR ROLLED STEEL IN COMPLIANCE WITH SMACNA 205-3RD EDITION LOW/MEDIUM PRESSURE DUCT STANDARDS TABLE 1.1. DUCTS SHALL BE TESTED, VERIFIED AND RECORDED IN ACCORDANCE WITH ASHRAE 90.1-2013 REQUIREMENT BASED ON LEAKAGE RATE LESS THAN 4% PER 100SF OF DUCT.
1.2. SEALER: LOW VOC MASTIC PAINT.

2.GENERAL:

2.1. LINES SHALL BE RUN STRAIGHT, LEVEL, PLUMB, AND ROUTED AS INDICATED IN THESE DRAWINGS. ALL LABELED DUCT DIMENSIONS ARE INTERNAL SIZES AND INDICATE FULL INSIDE CLEAR FREE AREA.
2.2. MINOR MODIFICATIONS TO DUCT ROUTING DUE TO OBSTRUCTIONS OR COORDINATION WITH OTHER TRADES WILL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER. ANY CHANGES IN SIZE TO DUCTWORK MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
2.3. ALL MITERED RECTANGULAR DUCT 90 DEGREE ELBOWS SHALL BE PROVIDED WITH TURNING VANES.
2.4. ALL SUPPLY, RETURN AND EXHAUST DUCTS SHALL BE EXTERNALLY INSULATED UNLESS OTHERWISE NOTED. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE MICROLIGHT XL 2" THICK 0.75 PCF R6.0 OUT OF THE BOX WITH FSK VAPOR BARRIER. SEAL WITH FIRE RATED MASTIC SEAL PER UL-181A-M AT ALL JOINTS AND SEAMS; OR APPROVED ACRYLIC FOIL PRESSURE SENSITIVE TAPE PER UL-181A-P APPLIED USING SQUEEGEE APPROVED METHOD AT JOINTS AND SEAMS. RUBBER BASE TAPES ARE NOT ALLOWED.
2.5. DUCTBOARD IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD.
2.6. DUCTS SHALL HAVE MINIMUM INSULATION VALUES AS LISTED IN FBC-EC 403.2.9.1.

3.FLEXIBLE DUCTS:

3.1. DUCT TO AIR TERMINALS SHALL BE LIMITED IN LENGTH AS SHOWN IN DETAILS.
3.2. SHALL BE UL LISTED AS A CLASS 1 AIR DUCT COMPLYING WITH UL STANDARD 181, NFPA 90A & 90B AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE DEVELOPMENT RATING NOT OVER 50.
3.3. SHALL HAVE A POSITIVE OPERATING PRESSURE OF 10" MINIMUM. FLEXIBLE DUCT SHALL HAVE BEEN TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 200°F UNDER CONTINUOUS OPERATION.
3.4. SHALL BE RATED FOR A MINIMUM AIR VELOCITY OF 5000 FPM.
3.5. INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4 PCF DENSITY FIBERGLASS. SUPPLY DUCTS SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 4.2, BUT R-6 FOR SUPPLY DUCT IN ATTIC AND OUTDOOR SPACES. OUTER LINER SHALL BE A BI-DIRECTIONAL FIBERGLASS REINFORCED METALIZED VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS.
3.6. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHERE REQUIRED. FLEXIBLE DUCT SHALL HAVE A FULL 10-YEAR WARRANTY.
3.7. INNER LINER SHALL CONSIST OF A CPE CORE PERMANENTLY BONDED TO A COATED SPRING STEEL WIRE HELIX (MIN. 041" THICK).
3.8. SHALL BE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8M OR EQUAL.
3.9. SHALL BE SUPPORTED SO THAT HORIZONTAL RUNS ARE STRAIGHT AND WITHOUT SAGS OR BENDS. SHEET METAL SADDLES SHALL BE PROVIDED AT ALL HANGERS FOR FLEX DUCTS TO PREVENT KINKING OF THE DUCTS AND EXCESSIVE COMPRESSION OF THE INSULATION.

ENERGY SYSTEMS - THERMOSTATS

1. HEATING AND COOLING TO EACH ZONE MUST BE CONTROLLED INDIVIDUALLY BY A THERMOSTAT CONTROL. AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL ALSO BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.

2. THERMOSTATIC CONTROLS THAT CONTROL BOTH HEATING AND COOLING SHALL HAVE A DEADBAND OF 5°F MINIMUM WHERE WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.

3. ZONES NOT CONTINUOUSLY OPERATED OR WITH FULL HVAC LOAD DEMAND EXCEEDING 6800 BTU/HR (2 KW) SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. THE SETBACK CONTROLS SHALL BE IN ACCORDANCE WITH FBC CHAPTER 4, C403.2.4.2.

4. INSTALL THERMOSTAT WITHIN 48" A.F.F., AND ADJACENT TO LIGHT SWITCHES WHERE POSSIBLE.

DESIGN CRITERIA

BUILDING TYPE: GROUP B, BUSINESS

CLIMATE ZONE: 2A, LEON COUNTY, FLORIDA

OUTDOOR DESIGN CONDITIONS: SUMMER 95 DEG Fdb, 77 DEG Fwb
WINTER 20 DEG Fdb

INDOOR DESIGN CONDITIONS: COOLING 75 DEG F, 50% RH
HEATING 72 DEG F

DESIGN WIND LOAD: 120 MPH

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100% CD'S	ES	QN	06/24/26

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

QUY DUC NGUYEN LICENSE No. 91866 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Description:
MECHANICAL NOTES & LEGENDS

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M0.1

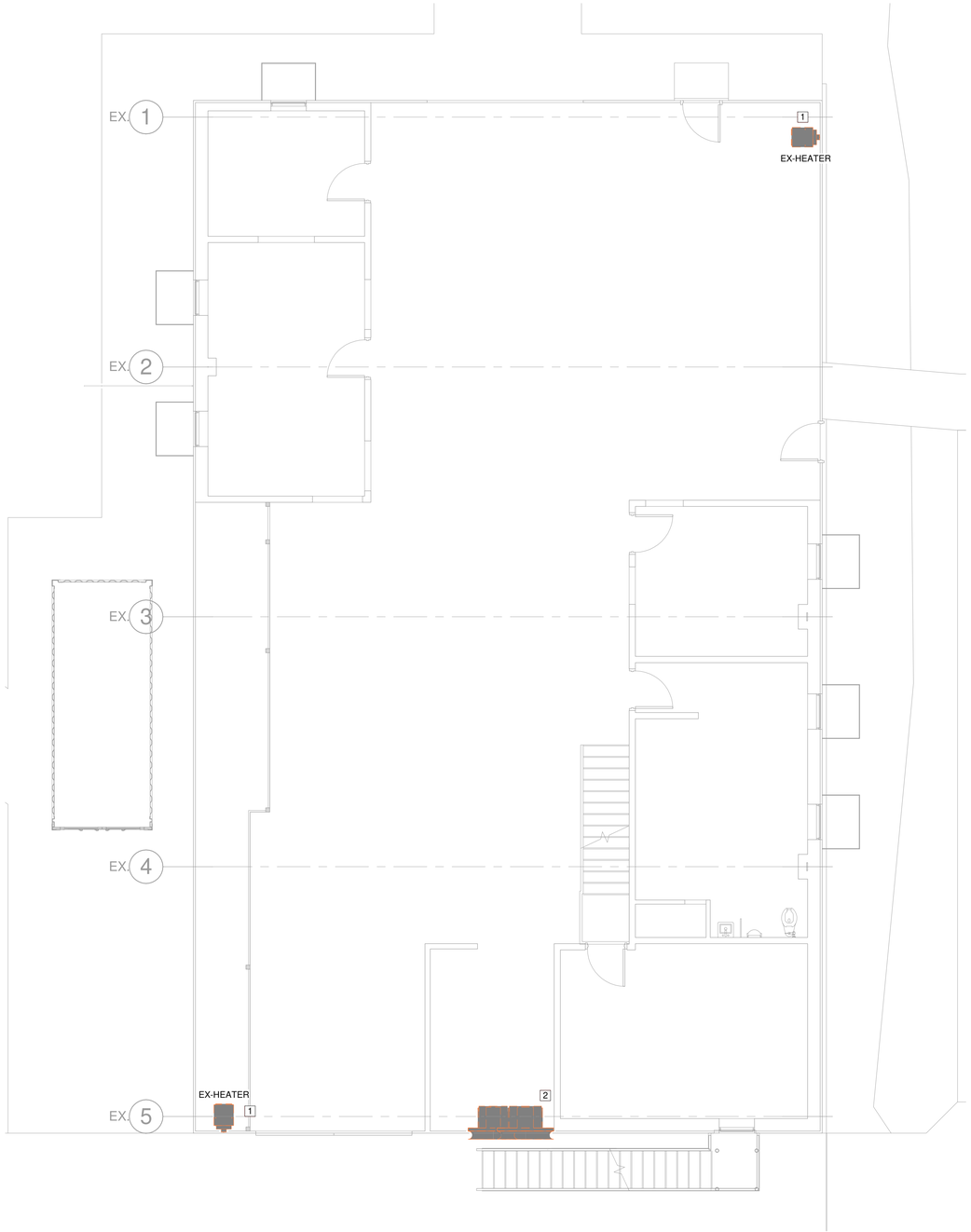
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MECHANICAL DEMOLITION GENERAL NOTES

1. SALVAGE AND RECYCLE AS MUCH DEMOLITION MATERIAL AS PRACTICAL, UNLESS NOTED OTHERWISE.

KEYED NOTES

X	
1	DEMOLISH SUSPENDED HEATER, ASSOCIATED GAS PIPING BACK TO METER OR TANK SHUT-OFF VALVE, AND SEAL WALL VENT PENETRATION.
2	DEMOLISH WALL MOUNTED PROPELLER FAN. SEAL WALL PENETRATION.



1 M1.0D DEMOLITION PLAN - HVAC
Scale: 3/16" = 1'-0"

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FSU

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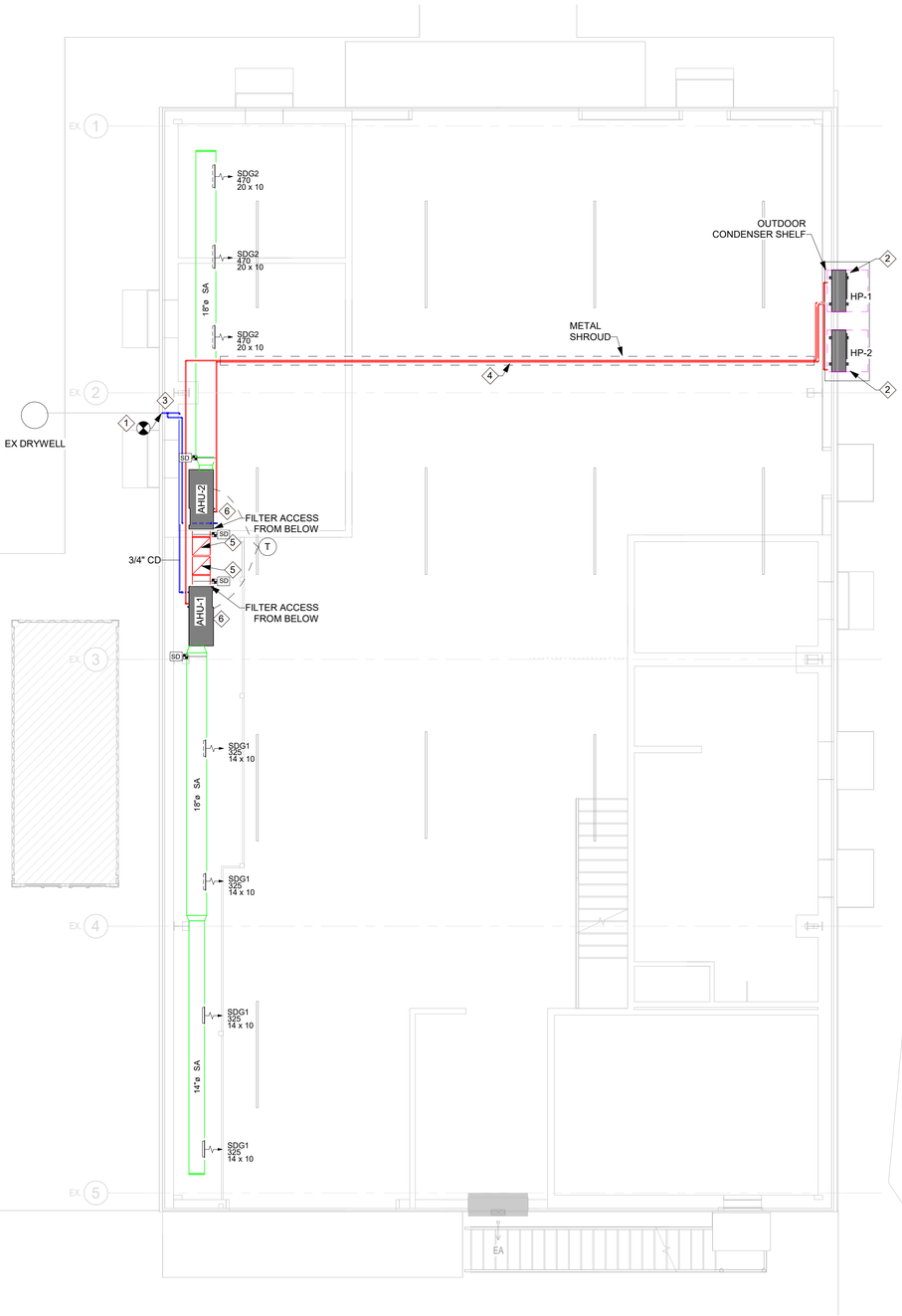
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Description:
MECHANICAL DEMOLITION FLOOR PLAN

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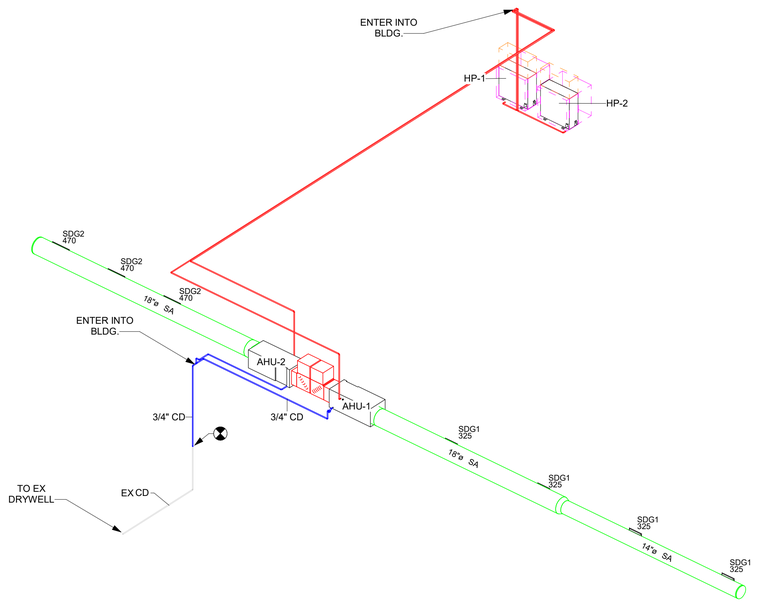
X	KEYED NOTES
1	CONNECT NEW CONDENSATE RISER TO EX CONDENSATE ROUTED TO EXISTING DRYWELL. INSULATE AND PAINT CONDENSATE LINES TO MATCH ADJACENT. CLEAN OUT DIRT AND LEAVES FROM EX CONDENSATE PIPING AND EXISTING DRYWELL.
2	OUTDOOR CONDENSERS TO BE MOUNTED WITH SHELF ON EXTERIOR WALL AT LEAST 12' ABOVE GRADE. REFER TO STRUCTURAL PLANS. SHIFT AND ADJUST LOCATION TO AVOID CONFLICTS WITH EQUIPMENT CLEARANCES, WINDOWS, DOORS, LIGHTING AND OTHER WALL MOUNTED ITEMS.
3	COMBINE CONDENSATE IN NEW VERTICAL RISER. ROUTE DOWN AND EXIT THROUGH EXTERIOR WALL PRIOR TO ENTERING OFFICE SPACE BELOW. CONNECT TO EXISTING CONDENSATE RISER. SEE DETAIL.
4	ROUTE REFRIGERANT LINE ALONG ROOF STRUCTURE. PROVIDE WITH METAL SHROUD. COORDINATE WITH USER/OWNER TO AVOID CONFLICTIONS WITH EXISTING OR FUTURE APPARATUS MOUNTING.
5	ROUTE RETURN UP. TERMINATE WITH 1/4" EQUIPMENT MESH ON RETURN INLET.
6	MOUNT AHU AS HIGH IN CEILING SPACE AS POSSIBLE, BUT LESS THAN 16' ABOVE PLATFORM. SUSPENDED FROM STRUCTURE. AVOID CONFLICTION OF DUCTWORK WITH STRUCTURE. COORDINATE WITH USER/OWNER TO AVOID CONFLICTIONS WITH EXISTING OR FUTURE APPARATUS MOUNTING.



1 M1.1 RENOVATION PLAN - HVAC
Scale: 3/16" = 1'-0"



2 M1.1 CONDENSATE RISER
No Scale



3 M1.1 MECHANICAL RISER
Scale:

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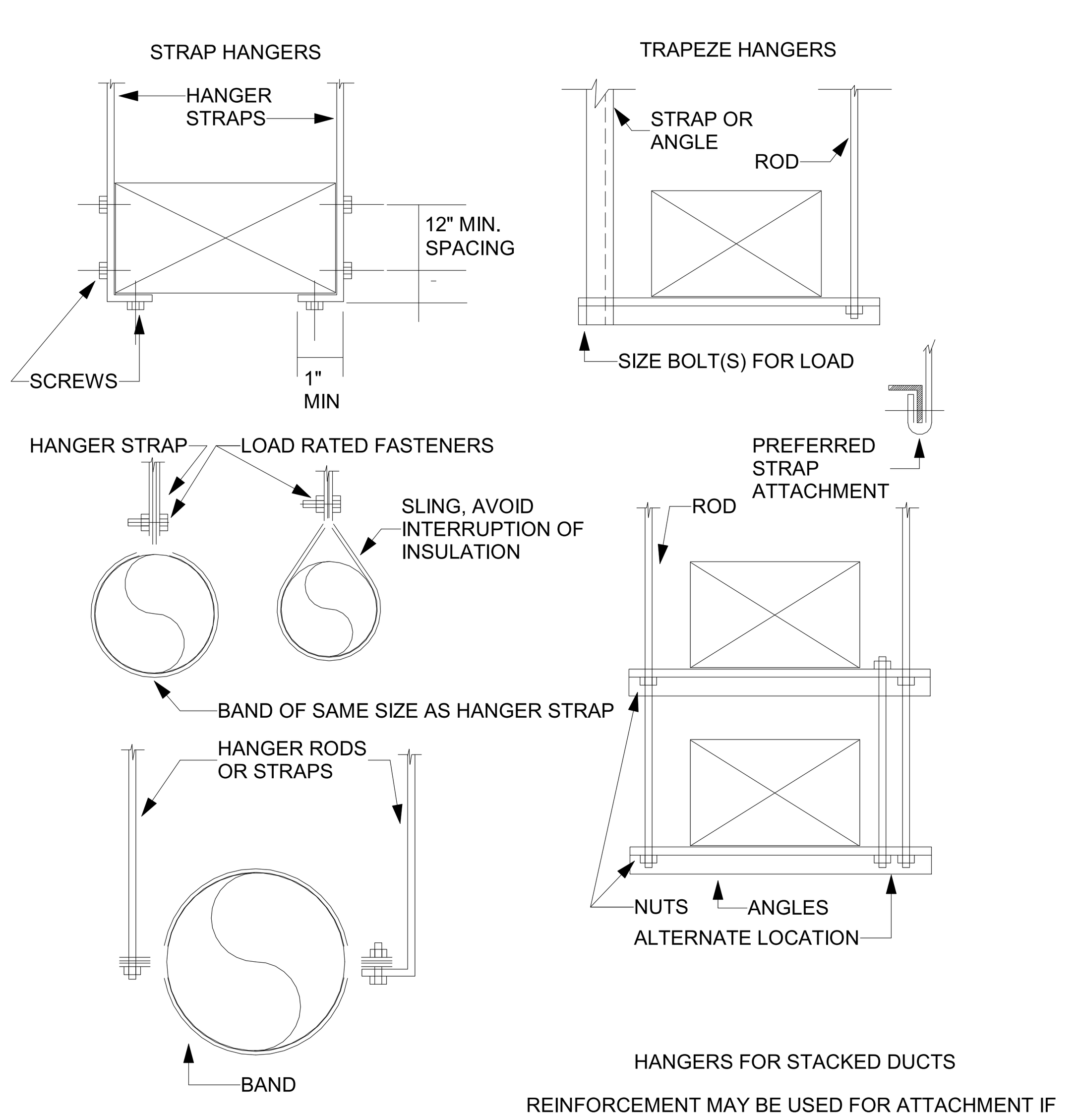
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Description:
HVAC RENOVATION FLOOR PLAN

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DUCT HANGER DETAILS

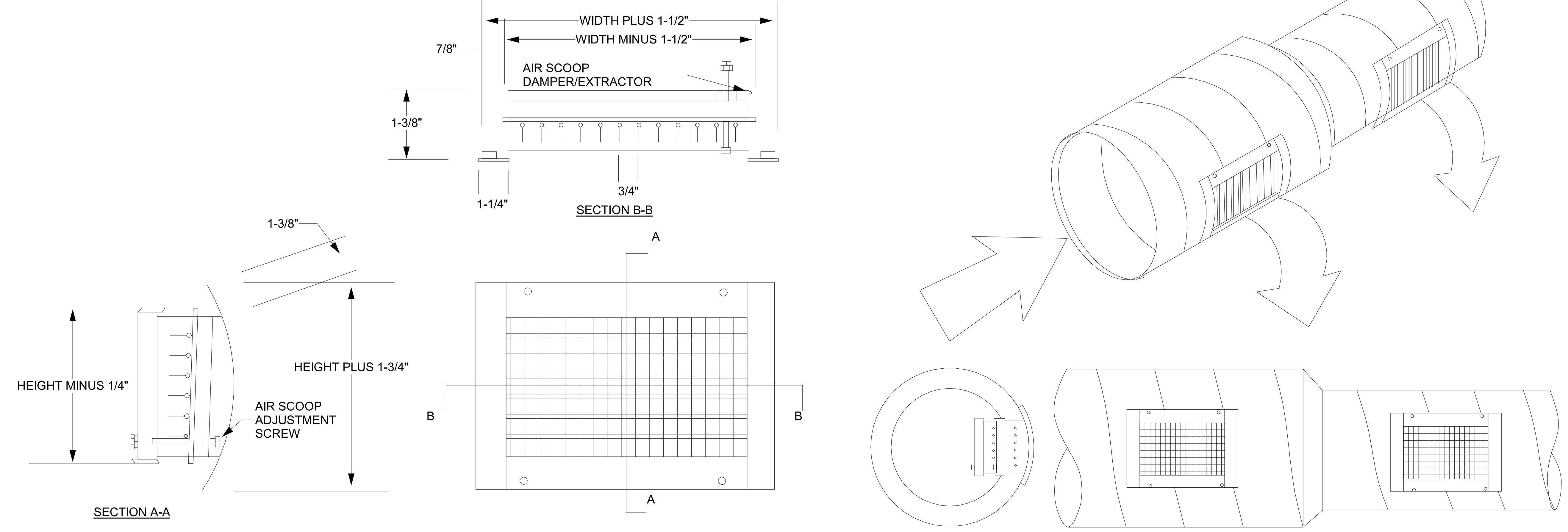


HANGERS FOR STACKED DUCTS

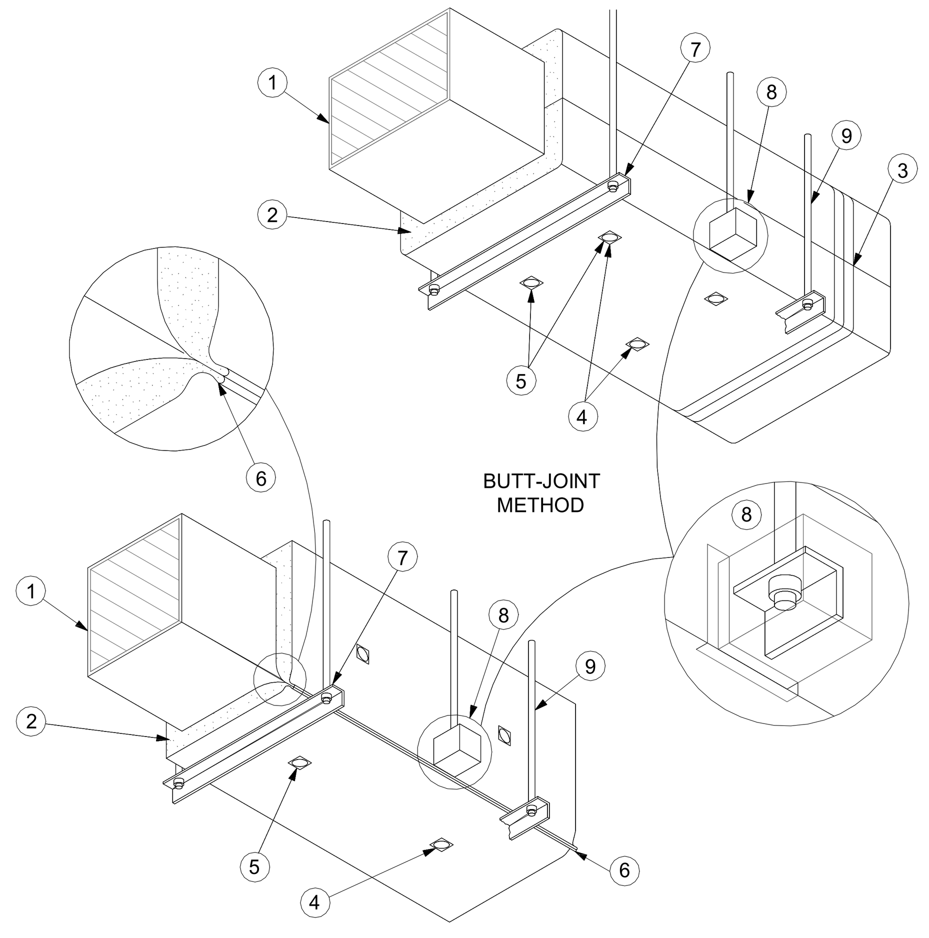
REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUCTS

DO NOT EXCEED LOAD RATING FOR METHOD USED.

1 M6.1 HANGER DETAILS
No Scale



2 M6.1 SPIRAL DUCT SIDE MOUNTED GRILLE DETAIL
Scale: 12" = 1'-0"



NOTES:

1. GALVANIZED METAL DUCT WITH SEALED SEAMS AND JOINTS USING PS-S POLY TYPE NO.P-301 PRODUCT.
2. BLANKET INSULATION WITH FACTORY-APPLIED VAPOR-RETARDER JACKET, 2" THICK R-6, 3/4 LB. CU. FT. DENSITY.
3. FACTORY LAP ALL SEALS (SEALED WITH ADHESIVE AND/OR STAPLES AND VAPOR-RETARDER TAPE). TAPE ALLOWS ALL JOINTS WITH FASON (SMANCA) ALUMINUM REINFORCED PRESSURE SENSITIVE TAPE; COAT EDGES, SEAMS, AND JOINTS WITH INSUL-COUSTIC PRODUCT BY "SURE-COAT M1-110" PRODUCT FIRE RESISTANT MASTIC.
4. MECHANICAL FASTENERS SUPPORTING INSULATION ON UNDERSIDE OF DUCTS OVER 24" WIDE (SPACE 3" MAXIMUM FROM THE BUTT JOINT).
5. VAPOR-RETARDER TAPE OVER TEARS AND PENETRATIONS OF THE VAPOR-RETARDER JACKET TO KEEP AIR TIGHT CONDITION.
6. ALTERNATE METHOD OF LAP SEAL - LONGITUDINAL JOINT LAPPED AND FOLDED, THEN STAPLED SECURELY IN PLACE.
7. HANGER ON EXTERIOR OF INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR-RETARDER TAPE.
8. HANGER EMBEDDED IN INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR RETARDER TAPE.
9. COMPLETELY ENCAPSULATE HANGER ROD AND ANGLE. SEAL TOP PENETRATION. ENCAPSULATE AND SEAL STRAP HANGERS IN A SIMILAR MANNER.

3 M6.1 BLANKET FIBERGLASS INSULATION DETAIL
No Scale

AIR HANDLER REMARKS

1.INSTALL WITH MERV13 FILTER. PROVIDE WITH EXTERNAL RACK AS NECESSARY.
2.PROVIDE WITH MANUFACTURERS WIRED THERMOSTAT.
3.DRAIN PAN OVERFLOW SWITCH.
4.PROVIDE SINGLE POINT POWER CONNECTION WITH INTEGRAL DISCONNECT.
5.INCLUDE ELECTRIC HEAT KIT.
6.UNOCCUPIED SETBACK AND OPTIMAL START SEQUENCES.
7.MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PUMP.

AIR HANDLER SCHEDULE

MARK	MANUFACTURER	MODEL	MATCHING UNIT	TONS	TOTAL CFM	EXT. SP (IN WG)	EAT DB	EAT WB	LAT DB	LAT WB	INDOOR HP	INDOOR MCA	INDOOR MOCP	KW HEATER	PHASE	VOLTAGE	REFRIGERANT TYPE	INDOOR UNIT WEIGHT	REMARKS
AHU-1	DAIKIN	FTA48AVJU	HP-1	4	1300	0.5 in-wg	80 °F	67 °F	55 °F	55 °F	0.75	32	35	5	1	208	R32	143	1-7
AHU-2	DAIKIN	FTA48AVJU	HP-2	4	1410	0.5 in-wg	80 °F	67 °F	55 °F	55 °F	0.75	32	35	5	1	208	R32	143	1-7

HEAT PUMP UNIT REMARKS

1.SINGLE-POINT POWER.
2.INTEGRAL DISCONNECT.
3.FOLLOW EQUIPMENT MANUFACTURER'S GUIDELINES FOR UNIT CLEARANCE AND REFRIGERANT LINE SIZING.
4.COMPRESSOR SOUND BLANKET, CRANKCASE HEATER.
5.SECURED FOR LOCAL WIND RATING, SEE FRONT PAGE NOTE DESIGN CRITERIA.

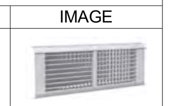
HEAT PUMP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	MATCHING UNIT	TONS	TOTAL BTUH	COOLING BTUH	HEATING BTUH	REFRIGERANT TYPE	SEER2	HSPF2	VOLTS	WEIGHT (LBS)	MCA	MOCP	REMARKS
HP-1	DAIKIN	RZA48-AAVJU	FTA48AAVJUD	4	47000	47000	55000	R32	15	9	208 V	234	35 A	35 A	1-5
HP-2	DAIKIN	RZA48-AAVJU	FTA48AAVJUD	4	47000	47000	55000	R32	15	9	208 V	234	35 A	35 A	1-5

AIR DISTRIBUTION DEVICE REMARKS

1. PROVIDE MEANS OF THROUGH-FACE BALANCING WHERE MANUAL DAMPER WOULD OTHERWISE BE INACCESSIBLE, VCR9 OR EQUIVALENT.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SERVICE	MFG	MODEL	CFM RANGE	NECK SIZE	DETAILS	IMAGE
SDG1	SUPPLY	PRICE	SDGE	325	14"x10"	SPIRAL DUCT CURVED GRILLE SUPPLY; ALUMINUM; 0 DEGREE BLADE TILT; SDGE; WITH AIR SCOOP FOR BALANCING.	
SDG2	SUPPLY	PRICE	SDGE	470	20"x10"	SPIRAL DUCT CURVED GRILLE SUPPLY; ALUMINUM; 0 DEGREE BLADE TILT; SDGE; WITH AIR SCOOP FOR BALANCING.	

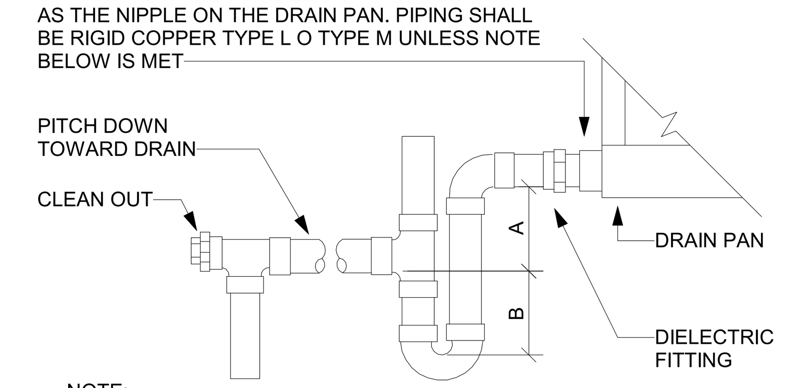
NATURAL VENTILATION REQUIREMENT SCHEDULE

Occupied Space Name	Surface Area (ft²)
Open Space	2831
Total	2831
4% Minimum Openable Area (FBC Mech 402.2)	114

NATURAL VENTILATION FULFILLMENT SCHEDULE

Direct Outdoor Openings	Open Area (ft²)
Garage Door	120
Doors	48
Total Openable Area	168

DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE NIPPLE ON THE DRAIN PAN. PIPING SHALL BE RIGID COPPER TYPE L O TYPE M UNLESS NOTE BELOW IS MET



NOTE:
1.CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2.DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.
3.TERMINATE AT CODE ALLOWED GREEN SPACE INTO GRAVEL PIT MINIMUM 12" FROM BUILDING.

UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

4 M6.1 AHU DRAIN TRAP
No Scale

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PHASE:	DRAWN:	REVIEWED:	DATE:
SCHEMATIC DESIGN	ES	QN	05/15/26
50% SUBMITTAL	ES	QN	05/27/26
100% CD'S	ES	QN	06/24/26

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

QUY DUC NGUYEN LICENSE No. 91866 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal: Quy Duc Nguyen, PE#91866

ALW
Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
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Description: HVAC DETAILS & SCHEDULES

Sheet No.: M6.1

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26 05 10 - GENERAL REQUIREMENTS

A. THIS SECTION INCLUDES ALL ELECTRICAL WORK AND RELATED ITEMS REQUIRED TO COMPLETE THE WORK INCLUDED ON DRAWINGS. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES & ALL ELSE REQUIRED TO MAKE COMPLETE AND OPERATIVE ELECTRICAL SYSTEMS & INSTALLATIONS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, CODES & REGULATIONS IN FORCE. ALSO INCLUDED IS ANY REPAIR REQUIRED TO MATCH EXISTING CONDITIONS AND FINISHES, OF ANY AREAS OR MATERIALS DUE TO ELECTRICAL DEMOLITION OR RELOCATIONS.

B. ALL EQUIPMENT, FIXTURES, DEVICES, MATERIALS SHALL BE NEW AND UL LISTED.

C. ACCEPTABLE MANUFACTURERS FOR ELECTRICAL EQUIPMENT (GEAR, PANELS, TRANSFORMERS, BREAKERS, DISCONNECTS, CONTROLLERS) INCLUDE: SQUARE D, GE, EATON (CUTLER-HAMMER), SIEMENS.

D. COMPLY WITH NFPA 70 "NATIONAL ELECTRICAL CODE" LATEST EDITION OR AS INDICATED IN CODES AND STANDARDS.

E. UNLESS ITEMS OF MATERIAL, EQUIPMENT OR WORK ARE SPECIFICALLY REQUIRED HEREIN TO BE SUPPLIED OR FURNISHED BY OTHERS, THEY SHALL BE PROVIDED UNDER THIS SECTION WHETHER OR NOT SO SPECIFICALLY DENOTED.

F. SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES WILL BE ACCEPTED ONLY WHEN SUBMITTED BY THE CONTRACTOR TO THE DESIGNATED PERSON BY THE OWNER. DATA SUBMITTED FROM SUBCONTRACTORS AND MATERIAL SUPPLIERS DIRECTLY TO THE ARCHITECT/ENGINEER WILL NOT BE PROCESSED.

G. MARK DRAWINGS TO INDICATE REVISIONS TO EQUIPMENT, RACEWAY, AND DEVICE LOCATIONS AND REVISIONS TO PANEL SCHEDULES.

H. CONTRACTOR SHALL MAKE TESTS AT HIS OWN EXPENSE, IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE, AS REQUIRED BY OWNER AND/OR ANY INSPECTION DEPARTMENT. TESTS SHALL BE MADE TO ASCERTAIN WHETHER THE SYSTEM AND EQUIPMENT INSTALLED COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.

I. COORDINATE ELECTRICAL EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS.

J. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED IN PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

K. SEQUENCE, COORDINATE, & INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT, GIVING PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING-IN BUILDING AREAS.

L. COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, & STRUCTURAL COMPONENTS.

M. STORE EQUIPMENT AND MATERIALS AT THE SITE, UNLESS OFF-SITE STORAGE IS AUTHORIZED IN WRITING. PROTECT STORED EQUIPMENT AND MATERIALS FROM DAMAGE. THE EQUIPMENT SHALL BE KEPT UNDER CONTROLLED CONDITIONS TO PREVENT MOISTURE AND/OR CONDENSATION ON CRITICAL ELECTRICAL PARTS.

N. WHEN APPLICABLE, REFER TO DEMOLITION DETAIL, ELECTRICAL DEMOLITION NOTES & DEMOLITION KEYED NOTES.

26 05 19 - LOW VOLTAGE CONDUCTORS (600V AND LESS) ELECTRICAL POWER CABLES AND CONDUCTOR

NOTE: ALUMINUM AND COPPER CONDUCTORS: COMPLY WITH NEMA WC 70/ICEA S-95-658.

CONDUCTOR MATERIAL APPLICATIONS:

A. FEEDERS: COPPER FOR FEEDERS SMALLER THAN 100A RATING; COPPER OR ALUMINUM FOR FEEDERS 100A AND LARGER. SOLID FOR NO. 12 AWG AND SMALLER; STRANDED FOR NO. 10 AWG AND LARGER. ALL WIRE INDICATED ON PLANS IS COPPER UNLESS OTHERWISE NOTED. WHERE ALUMINUM IS ALLOWED PER THIS NOTE AND IS SELECTED BY CONTRACTOR IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADJUST CABLE AND CONDUITS SIZE SO THAT FEEDER AMPACITY MATCHES OR EXCEEDS THE COPPER EQUIVALENT.

B. BRANCH CIRCUITS: COPPER. SOLID FOR NO. 12 AWG AND SMALLER; STRANDED FOR NO. 10 AWG AND LARGER.

CONDUCTOR INSULATION:

A. FEEDERS: TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY.

B. BRANCH CIRCUITS, TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.

C. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED.

D. USE MANUFACTURER APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.

E. USE PULLING MEANS, INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET-WEAVE WIRE/CABLE GRIPS, THAT WILL NOT DAMAGE CABLES OR RACEWAY.

F. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL486A-486B.

G. MAKE SPLICES, TERMINATIONS, AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL. USE OXIDE INHIBITOR IN EACH SPLICE, TERMINATION, AND TAP FOR ALUMINUM CONDUCTORS.

H. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES OF SLACK.

I. APPLY FIRE-STOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY.

J. AFTER INSTALLING CONDUCTORS AND CABLES AND BEFORE ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST SERVICE ENTRANCE AND FEEDER CONDUCTORS. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST STATED IN NETA ACCEPTANCE TESTING SPECIFICATION. CERTIFY COMPLIANCE WITH TEST PARAMETERS.

K. PERFORM INSULATION RESISTANCE ON EACH CONDUCTOR (BRANCH AND FEEDER) WITH RESPECT TO GROUND AND ADJACENT CONDUCTORS. 1000 VOLTS DC FOR 600 VOLT RATED CABLE. TEST DURATION SHALL BE ONE MINUTE.

L. MINIMUM INSULATION RESISTANCE VALUES SHOULD NOT BE LESS THAN 50 MEGAOHMS.

26 05 26 - GROUNDING

1. WIRE AND CABLE CONDUCTORS:
A. GENERAL: UNLESS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING CONDUCTORS FOR EQUIPMENT, SYSTEM, AND SEPARATELY DERIVED SYSTEM GROUNDING CONNECTIONS THAT MATCH POWER SUPPLY WIRING MATERIALS AND ARE SIZED ACCORDING TO NEC.
B. EQUIPMENT GROUNDING CONDUCTOR: GREEN INSULATED.
C. GROUNDING ELECTRODE CONDUCTOR: STRANDED BARE CU.

2. CONNECTOR PRODUCTS
A. GENERAL: LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED.

3. GROUNDING ELECTRODES
A. GROUND RODS: COPPER-CLAD STEEL 5/8" X 8'-0" (UNO)
B. PLATE ELECTRODES: COPPER PLATES, MINIMUM 0.10 INCH THICK.
C. GROUND WELLS: CONCRETE, 9"DIA. X 24" DEEP (UNO), WITH COVER MARKED "GROUND".

4. APPLICATION
A. EQUIPMENT GROUNDING CONDUCTOR APPLICATION: COMPLY WITH NEC ARTICLE 250 FOR SIZES AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, EXCEPT WHERE LARGER SIZES OR MORE CONDUCTORS ARE INDICATED.
B. A SEPARATE GREEN GROUND WIRE SHALL BE PROVIDED BETWEEN THE LOAD AND DISTRIBUTION SOURCE FOR ALL BRANCH CIRCUITS AND FEEDERS (UNO)

C. SIGNAL AND COMMUNICATIONS: FOR TELEPHONE, ALARM, AND COMMUNICATION SYSTEMS, PROVIDE A #4 AWG MINIMUM GREEN INSULATED COPPER CONDUCTOR IN RACEWAY FROM THE GROUNDING ELECTRODE SYSTEM TO EACH TERMINAL CABINET OR CENTRAL EQUIPMENT LOCATION.

D. METAL POLES SUPPORTING OUTDOOR LIGHTING FIXTURES: GROUND POLE TO A GROUNDING ELECTRODE AS INDICATED IN ADDITION TO SEPARATE EQUIPMENT GROUNDING CONDUCTOR RUN WITH SUPPLY BRANCH CIRCUIT.

E. CONNECTIONS TO LIGHTNING PROTECTION SYSTEM: (WHEN APPLICABLE) COORDINATE WITH LIGHTNING PROTECTION CONTRACTOR FOR ALL GROUND CONNECTIONS TO THE LIGHTNING PROTECTION SYSTEM PER NFPA 78 "LIGHTNING PROTECTION CODE." LIGHTNING PROTECTION CONTRACTOR SHALL INSTALL SYSTEM WITH 'MASTER LABEL'.

F. GENERAL: GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH NEC REQUIREMENTS EXCEPT WHERE THE DRAWINGS OR SPEC. EXCEED NEC REQUIREMENTS:

G. ALL EQUIPMENT, GROUND PADS, ENCLOSURES, DEVICES, ETC. SHALL BE BONDED TOGETHER.

H. GROUND ELECTRICAL SERVICE SYSTEM NEUTRAL AT SERVICE ENTRANCE EQUIPMENT TO GROUND ELECTRODE SYSTEM.

I. GROUND EACH SEPARATELY-DERIVED SYSTEM NEUTRAL TO GROUND ELECTRODE SYSTEM.

J. TIGHTEN GROUNDING AND BONDING CONNECTORS AND TERMINALS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES OR UL 486A.

5. FIELD QUALITY CONTROL:

A. TESTS: SUBJECT THE COMPLETED GROUNDING SYSTEM TO A MEGGER TEST (THIRD-PARTY).

B. GROUND/RESISTANCE MAXIMUM VALUES SHALL BE AS FOLLOWS:

C. EQUIPMENT RATED 500 KVA AND LESS, MANHOLE GROUNDS: 10 OHMS

D. EQUIPMENT RATED 500 KVA TO 1000 KVA, SUBSTATIONS AND PAD MOUNTED EQUIPMENT 5 OHMS.

E. EQUIPMENT RATED OVER 1000 KVA: 3 OHMS

F. WHERE GROUND RESISTANCE EXCEED SPECIFIED VALUES, AND IF DIRECTED, MODIFY THE GROUNDING SYSTEM TO REDUCE RESISTANCE VALUES. WHERE MEASURES ARE DIRECTED THAT EXCEED THE PROVISIONS OF THE CONTRACT, COVERING CHANGES WILL APPLY.

26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

A. RACEWAY SUPPORTS: CLEVIS HANGERS, RISER CLAMPS, CONDUIT STRAPS, THREADED C-CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, & SPRING STEEL CLAMPS.
B. U-CHANNEL SYSTEMS: 16GAGE STEEL CHANNELS, WITH 9/16 INCH DIAMETER HOLES, AT A MINIMUM OF

8 INCHES ON CENTER. PROVIDE FITTINGS & ACCESSORIES THAT MATCH WITH U-CHANNEL.

C. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY & PERMANENTLY IN ACCORDANCE WITH NEC REQUIREMENTS.

D. COORDINATE INSTALLATION OF SUPPORTING DEVICES WITH STRUCTURAL SYSTEMS & OTHER ELECTRICAL INSTALLATIONS.

E. RACEWAY SUPPORTS: COMPLY WITH THE NEC & THE FOLLOWING:

a. CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SELECTION & INSTALLATION OF SUPPORTS.
b. STRENGTH OF EACH SUPPORT SHALL BE ADEQUATE TO CARRY PRESENT & FUTURE LOAD MULTIPLIED BY A SAFETY FACTOR OF AT LEAST FOUR OR 200 LBS SAFETY ALLOWANCE MINIMUM.
c. INSTALL INDIVIDUAL & MULTIPLE (TRAPEZE) RACEWAY HANGERS & RISER CLAMPS AS NECESSARY TO SUPPORT RACEWAYS. PROVIDE U-BOLTS, CLAMPS, ATTACHMENTS, & OTHER HARDWARE AS NECESSARY.
d. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE-TYPE HANGERS.
e. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS BY SEPARATE PIPE HANGERS. SPRING STEEL FASTENERS MAY BE USED IN LIEU OF HANGERS ONLY FOR 1-1/2 INCHES & SMALLER RACEWAYS SERVING LIGHTING & RECEPTACLE BRANCH CIRCUITS ABOVE SUSPENDED CEILINGS ONLY. FOR HANGER RODS WITH SPRING STEEL FASTENERS, USE 1/4 INCH DIAMETER OR LARGER THREADED STEEL. USE SPRING STEEL FASTENERS SPECIFICALLY DESIGNED FOR SUPPORTING SINGLE CONDUITS.
f. SPACE SUPPORTS FOR RACEWAYS IN ACCORDANCE WITH NEC.
g. SUPPORT EXPOSED & CONCEALED RACEWAY WITHIN 1 FOOT OF AN UNSUPPORTED BOX & ACCESS FITTINGS. IN HORIZONTAL RUNS, SUPPORT AT THE BOX & ACCESS FITTINGS MAY BE OMITTED WHERE BOX OR ACCESS FITTINGS ARE INDEPENDENTLY SUPPORTED & RACEWAY TERMINALS ARE NOT MADE WITH CHASE NIPPLES OR THREAD-LESS BOX CONNECTORS.
h. IN VERTICAL RUNS, ARRANGE SUPPORT SO THE LOAD PRODUCED BY THE WEIGHT OF THE RACEWAY & THE ENCLOSED CONDUCTORS IS CARRIED ENTIRELY BY THE CONDUIT SUPPORTS WITH NO WEIGHT LOAD ON RACEWAY TERMINALS.

F. INSTALL VERTICAL CONDUCTOR SUPPORTS SIMULTANEOUSLY WITH INSTALLATION OF CONDUCTORS.

G. SUPPORT MISCELLANEOUS ELECTRICAL COMPONENTS AS REQUIRED TO PRODUCE THE SAME STRUCTURAL SAFETY FACTORS AS SPECIFIED FOR RACEWAY SUPPORTS. INSTALL METAL CHANNEL RACKS FOR MOUNTING CABINETS, PANELBOARDS, DISCONNECTS, CONTROL ENCLOSURES, PULL BOXES, JUNCTION BOXES, TRANSFORMERS, & OTHER DEVICES.

H. IN OPEN OVERHEAD SPACES, CAST BOXES THREADED TO RACEWAYS NEED NOT BE SUPPORTED SEPARATELY EXCEPT WHERE USED FOR FIXTURE SUPPORT; SUPPORT SHEET METAL BOXES DIRECTLY FROM THE BUILDING STRUCTURE OR BY BAR HANGERS.

26 05 33 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

A. COORDINATE WITH OTHER WORK, AS NECESSARY TO INTERFACE INSTALLATION OF ELECTRICAL RACEWAYS WITH OTHER DISCIPLINES. PROVIDE SUPPORTS PER NEC.

B. OUTDOORS: APPLY AS SPECIFIED BELOW (UNLESS NOTED OTHERWISE)
a. EXPOSED CONDUIT (DAMP, DRY, OR CONCEALED LOCATIONS): ELECTRICAL METALLIC TUBING (EMT), COMPRESSION FITTINGS.
b. EXPOSED CONDUIT (WET LOCATIONS): ELECTRICAL METALLIC TUBING (EMT), LISTED WEATHERPROOF COMPRESSION FITTINGS
c. EXPOSED CONDUIT (WHERE SUBJECT TO PHYSICAL DAMAGE): GALVANIZED RIGID CONDUIT (GRC), INTERMEDIATE METAL CONDUIT (IMC).
d. UNDERGROUND CONDUIT: RIGID NONMETALLIC CONDUIT, MINIMUM SCHEDULE 40.
e. CONNECTION TO VIBRATING EQUIPMENT: LIQUID-TIGHT FLEX METAL CONDUIT 18" MAX.
f. BOXES AND ENCLOSURES, ABOVE GROUND: NEMA 250, TYPE 3R.

C. INDOORS APPLY AS SPECIFIED BELOW (UNLESS NOTED OTHERWISE):
a. EXPOSED: ELECTRICAL METALLIC TUBING (EMT).
b. EXPOSED (WHERE SUBJECT TO PHYSICAL DAMAGE): GALVANIZED RIGID CONDUIT (GRC), INTERMEDIATE METAL CONDUIT (IMC).
c. CONCEALED: ELECTRICAL METALLIC TUBING (EMT).
d. CONCEALED, FROM JUNCTION BOX TO CONCEALED WIRING DEVICE BOX(ES): ELECTRICAL METALLIC TUBING (EMT), MC CABLE (AVOID MC CABLE HOMERUNS TO PANELBOARD).
e. EMBEDDED IN SLAB:RIGID NONMETALLIC CONDUIT, SCHEDULE 40 MIN.
f. WITHIN PLENUMS:NO LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
g. CONNECTION TO VIBRATING EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT 18" MAX.
h. TYPE NM CABLE (ROMEX) IS NOT PERMITTED IN COMMERCIAL APPLICATIONS.
i. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 4 STAINLESS STEEL OR NONMETALLIC IN INSTITUTIONAL AND COMMERCIAL KITCHENS AND DAMP OR WET LOCATIONS. 4" SQUARE x 2-1/8" DEEP BOXES.
j. EMT FITTINGS (INDOORS): COMPRESSION, [SET SCREW].

D. MINIMUM RACEWAY SIZE: 3/4-INCH (21-MM) TRADE SIZE. 1" MINIMUM, UNDERGROUND.

E. DO NOT INSTALL ALUMINUM CONDUITS, BOXES, OR FITTINGS IN CONTACT WITH CONCRETE OR EARTH.

F. CONCEAL CONDUIT AND EMT, UNLESS INDICATED OTHERWISE (EXCEPTION: ELECTRICAL AND MECHANICAL ROOMS), WITHIN FINISHED WALLS, CEILINGS, AND FLOORS. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM FLUES, STEAM OR HOT WATER PIPES.

G. COMPLY WITH REQUIREMENTS IN SECTION 260529 "HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS" FOR HANGERS AND SUPPORTS.

H. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. SUPPORT WITHIN 12 INCHES (300 MM) OF CHANGES IN DIRECTION.

I. SUPPORT CONDUIT WITHIN 12 INCHES (300 MM) OF ENCLOSURES TO WHICH ATTACHED.

J. RACEWAYS EMBEDDED IN SLABS:
a. RUN CONDUIT LARGER THAN 1-INCH (27-MM) TRADE SIZE, PARALLEL OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT. SECURE RACEWAYS TO REINFORCEMENT AT MAXIMUM 10-FOOT (3-M) INTERVALS.
b. ARRANGE RACEWAYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH EXPANSION FITTINGS.

K. STUB-UPS TO ABOVE RECESSED CEILINGS:
a. USE EMT, IMC, OR RMC FOR RACEWAYS.
b. USE A CONDUIT BUSHING OR INSULATED FITTING TO TERMINATE STUB-UPS NOT TERMINATED IN HUBS OR IN AN ENCLOSURE.

L. PROVIDE APPROVED FIRE SEALS AND SEALING MATERIAL WHEREVER CONDUIT PASSES THROUGH
FIRE-RATED WALLS OR FLOORS. (SEE ARCHITECTURAL PLANS)

M. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC -COATED STEEL OR MONOFILAMENT PLASTIC LINE HAVING NOT LESS THAN 200 LBS TENSILE STRENGTH. LEAVE NOT LESS THAN 12 INCHES OF SLACK AT EACH END OF THE PULL WIRE.

26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. UNDERGROUND LINE MARKING TAPE: PERMANENT, BRIGHT-COLORED, CONTINUOUS-PRINTED, PLASTIC TAPE COMPOUNDED FOR DIRECT-BURIAL SERVICE NOT LESS THAN 6 INCHES WIDE BY 4 MILS THICK.

B. ENGRAVED, PLASTIC-LAMINATED LABELS AND SIGNS, ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16-INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8-INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.

C. FASTENERS FOR PLASTIC-LAMINATED AND METAL SIGNS: SELF-TAPPING STAINLESS STEEL SCREWS OR NUMBER 10/32 STAINLESS STEEL MACHINE SCREWS WITH NUTS AND FLAT LOCK WASHERS.

D. DURING TRENCH BACKFILLING, FOR EXTERIOR UNDERGROUND POWER, AND COMMUNICATIONS
LINES, INSTALL CONTINUOUS UNDERGROUND PLASTIC LINE MARKER, LOCATED DIRECTLY ABOVE
LINE AT 12" INCHES BELOW GRADE.

E. INSTALL BRASS TAG ON EACH UNDERGROUND CONDUIT, IDENTIFYING SOURCE AND SERVICE AT
EACH END.

F. INSTALL WARNING OR CAUTION SIGNS WHERE REQUIRED BY NEC, WHERE INDICATED, OR WHERE
REASONABLY REQUIRED TO ASSURE SAFE OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS.

G. COLOR CODE SECONDARY SERVICE, FEEDER, & BRANCH CIRCUIT CONDUCTORS AS INDICATED
BELOW:
a. USE CONDUCTORS WITH COLOR FACTORY-APPLIED THE ENTIRE LENGTH OF THE CONDUCTORS EXCEPT AS FOLLOWS. THE FOLLOWING FIELD-APPLIED COLOR-CODING METHODS MAY BE USED IN LIEU OF FACTORY-CODED WIRE NO. 10 AWG & LARGER.
b. APPLY COLORED, PRESSURE-SENSITIVE PLASTIC TAPE IN HALF-LAPPED TURNS FOR A DISTANCE OF 6 INCHES FROM TERMINAL POINTS. IN LIEU OF PRESSURE-SENSITIVE TAPE, COLORED CABLE TIES MAY BE USED. APPLY THREE TIES OF SPECIFIED COLOR TO EACH WIRE AT EACH TERMINAL STARTING 3 INCHES FROM THE TERMINAL & SPACED 3 INCHES APART.

208Y/120	PHASE	480Y/277V
RED	A	BROWN
BLACK	B	ORANGE
BLUE	C	YELLOW
WHITE	NEUTRAL	GRAY
GREEN	GROUND	GREEN
GRN/YL	ISO GND	GRN/YL

26 22 00 - DRY TYPE TRANSFORMERS

A. PROVIDE COPPER (OR ALUM.) WINDINGS, ELECTROSTATIC SHIELDED, CLASS 220 INSULATION, 150 DEG. C TEMP. RISE, K-4 OR K-13 (WHEN INDICATED)

B. PROVIDE FACTORY-ASSEMBLED, AIR-COOLED, DRY-TYPE DISTRIBUTION XFMR OF SIZES, RATINGS AS INDICATED; 60-HZ, 4.0% MIN. AND 5.75% MAX. IMPEDANCE. WITH 4 TAPS; EACH 2-1/2% INCREMENTS ABOVE AND BELOW RATED VOLTAGE.

C. PROVIDE MANUFACTURER'S STANDARD LIGHT GRAY INDOOR ENAMEL OVER PHOSPHATIZED STEEL ENCLOSURE.

D. PROVIDE WEATHER SHIELDS FOR OUTDOOR INSTALLATIONS.

E. PROVIDE VIBRATION MOUNTS (300 KVA AND BELOW).

26 23 00 INDOOR AND OUTDOOR SERVICE ENTRANCE GEAR (480V AND BELOW)

A. GENERAL: PROVIDE UTILITY METER SECTION PER UTILITY STANDARDS WHEN INDICATED ON THE
PLANS.
a. UTILITY METERING COMPARTMENT: THE UTILITY CURRENT TRANSFORMER COMPARTMENT SHALL COMPLY WITH THE LOCAL UTILITY CONSTRUCTION SPECIFICATIONS.
b. SHORT CIRCUIT CURRENT RATING AS INDICATED ON ONE-LINE.
c. FUTURE PROVISIONS: ALL UNUSED SPACES PROVIDED, UNLESS OTHERWISE SPECIFIED, SHALL BE FULLY EQUIPPED FOR FUTURE DEVICES, INCLUDING ALL APPROPRIATE CONNECTORS AND MOUNTING HARDWARE.
d. ENCLOSURE: TYPE 1 OR TYPE 3R AS INDICATED ON THE PLANS.

B. THE SWITCHGEAR ENCLOSURE SHALL BE PAINTED MEDIUM GRAY, ANSI #49.

C. ALL FRONT COVERS SHALL BE SCREW REMOVABLE WITH A SINGLE TOOL AND ALL DOORS SHALL
BE HINGED.

D. TOP AND BOTTOM CONDUIT AREAS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS.
a. NAMEPLATES: PROVIDE 1 INCH HIGH X 3 INCHES ENGRAVED LAMINATED NAMEPLATES FOR EACH DEVICE. FURNISH BLACK LETTERS ON A WHITE BACKGROUND FOR ALL VOLTAGES.
b. BUS COMPOSITION: SHALL BE PLATED COPPER OR ALUMINUM. FULL PROVISIONS FOR THE ADDITION OF FUTURE SECTIONS SHALL BE PROVIDED. BUSSING SHALL INCLUDE ALL NECESSARY HARDWARE TO ACCOMMODATE SPLICING FOR FUTURE ADDITIONS.
c. GROUND BUS: SHALL EXTEND THE ENTIRE LENGTH OF THE SWITCHGEAR.
d. ALL LUGS SHALL BE UL LISTED TO ACCEPT SOLID AND/OR STRANDED COPPER AND ALUMINUM CONDUCTORS.
e. PROVIDE MECHANICAL TYPE LUGS TO ACCOMMODATE THE CONDUCTOR SHOWN ON THE ASSOCIATED DRAWINGS.

E. SWITCHGEAR SHALL BE COMPLETELY ASSEMBLED, WIRED, ADJUSTED, AND TESTED AT THE FACTORY.

F. CONTRACTOR SHALL INSTALL EQUIPMENT DESCRIBED IN THIS SPECIFICATION, PER MANUFACTURER'S RECOMMENDED PRACTICE, AS LOCATED ON DRAWINGS.
a. CONTRACTOR SHALL COORDINATE INSTALLATION WITH MANUFACTURER FOR START-UP AND CERTIFICATION.
b. CONTRACTOR SHALL PROVIDE CONCRETE PADS FOR EQUIPMENT.

G. MANUFACTURER SHALL PROVIDE THE SERVICES OF A COMPETENT FIELD SERVICE REPRESENTATIVE AS NEEDED TO RESOLVE ANY MALFUNCTIONS AND TO MAKE ANY INSPECTIONS, CHECKS, ETC. NEEDED TO PROVIDE MANUFACTURER'S CERTIFICATION. A MANUFACTURER'S CERTIFICATION SHALL BE PROVIDED PRIOR TO EQUIPMENT BEING ENERGIZED.

26 24 13 SWITCHBOARDS AND PANELBOARD

A. PROVIDE FACTORY-ASSEMBLED, DEAD-FRONT, METAL-ENCLOSED, SWITCHBOARDS AND PANELBOARDS, OF TYPES, SIZES, ELECTRICAL RATINGS AND CHARACTERISTICS INDICATED.
a. INDOORS: NEMA TYPE 1
b. OUTDOORS: NEMA TYPE 3R

B. BUSSING: COPPER OR ALUMINUM WITH AMPACITY RATING AND SHORT-CIRCUIT CURRENT RATING
AS INDICATED ON ONE-LINE.

C. FUSIBLE SWITCHES: PROVIDE FUSIBLE SWITCH ASSEMBLIES, 3-POLE, QUICK-MAKE, QUICK-BREAK
TYPES MOUNTED IN METAL ENCLOSURES WHICH ARE OPERATED BY EXTERNALLY LOCATED
HANDLES WHICH CAN BE LOCKED IN ON OR OFF POSITIONS.

D. METERING: WHERE INDICATED PROVIDE METERING COMPARTMENTS FOR CT'S, PT'S AND
INSTRUMENTS.

E. FASTEN ENCLOSURES FIRMLY TO WALLS AND STRUCTURAL SURFACES, ENSURING THEY ARE
PERMANENTLY & MECHANICALLY ANCHORED.

F. FILL OUT PANELBOARD'S CIRCUIT DIRECTORY CARD UPON COMPLETION OF INSTALLATION WORK.

26 27 26 - WIRING DEVICES

A. PROVIDE WIRING DEVICES, IN TYPES, CHARACTERISTICS, AND ELECTRICAL RATINGS FOR APPLICATIONS
INDICATED WHICH ARE UL LISTED AND WHICH COMPLY WITH APPLICABLE UL AND NEMA STANDARDS. ALL DEVICES AND WALL BOXES SHALL BE PROVIDED WITH A WALL PLATE DESIGNED TO MATCH THE DEVICE. THE COLOR OF ALL DEVICES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO ORDER OF DEVICES. WHERE THE ARCHITECT HAS NO COLOR PREFERENCE PROVIDE WHITE COLOR DEVICES WITH WALL PLATES EXCEPT AS OTHERWISE INDICATED. PROVIDE HEAVY DUTY DEVICES UNLESS OTHERWISE INDICATED. MANUFACTURER'S CATALOG NUMBERS LISTED BELOW INDICATE QUALITY OF BASIS OF DESIGN.

B. MODULAR "PLUG-IN" WIRING SYSTEMS ARE NOT PERMITTED.

C. SIMPLEX, DUPLEX, OR GFCI RECEPTACLE: 125V, 20A, 5-20R CONFIGURATION. PROVIDE ONE OF THE FOLLOWING:
a. COOPER; 5351 (SINGLE), CR5362 (DUPLEX), VGF20 (GFCI)
b. HUBBELL; HBL5351 (SINGLE), HBL5352 (DUPLEX), GFR5352L (GFCI)
c. LEVITON; 5891 (SINGLE), 5352 (DUPLEX), 7590 (GFCI)
d. PASS & SEYMOUR; 5361 (SINGLE), 5362 (DUPLEX), 2095 (GFCI)

D. DUPLEX RECEPTACLE WITH (2) INTEGRAL USB CHARGING PORTS: 125V, 20A, 5-20R CONFIGURATION. USB PORTS
SHALL BE USB 2.0 AND 3.0 COMPATIBLE. 3 AMP (OUT) AT 5VDC OUTPUT. PROVIDE ONE OF THE FOLLOWING:
a. COOPER; TR7756
b. HUBBELL; USB20X2
c. LEVITON; T5832

E. DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS: 125V, 20A, 5-20R CONFIGURATION. USB PORTS
SHALL BE USB 2.0 AND 3.0 COMPATIBLE. 3 AMP (OUT) AT 5VDC OUTPUT. PROVIDE ONE OF THE FOLLOWING:
a. COOPER; TR7756
b. HUBBELL; USB20X2
c. LEVITON; T5832
d. OR APPROVED EQUAL

F. SINGLE POLE / DOUBLE POLE / 3-WAY / 4-WAY / LIGHTED OR KEY OPERATED SWITCH: 20A, 120-277V. PROVIDE ONE
OF THE FOLLOWING:
a. COOPER; AH1221 / AH1222 / AH1223 / AH1224 / AH1221PL FOR 120 AND 277 V / AH1221L
b. HUBBELL; HBL1221 / HBL1222 / HBL1223 / HBL1224 / HBL1221PL FOR 120 AND 277 V / HBL1221L
c. LEVITON; 1221-2 / 1222-2 / 1223-2 / 1224-2 / 1221-LH1 / 1221-2L
d. PASS & SEYMOUR; CSB20AC1 / CSB20AC2 / CSB20AC3 / CSB20AC4 / PS20AC1RPL FOR 120 V, PS20AC1RPL7 FOR
277 V / PS20AC1-L

G. FLOOR BOX: PROVIDE FLOOR BOX SUITABLE FOR FLOOR TYPE IN WHICH THE FLOOR BOX IS BEING INSTALLED. PROVIDE EACH FLOOR BOX WITH A COVER CAPABLE OF BEING OPENED 180 DEGREES OR COVERS THAT CAN BE
CLOSED WHILE THE FLOOR BOX IS IN USE (ACTIVATED). COVERS SHALL BE BLACK POWDER COAT U.N.O. COVER SHALL BE MADE OF METAL OR HIGH IMPACT RESISTANT POLYCARBONATE. WHEN THE COVER IS CLOSED THE
FLOOR BOX SHALL BE ADA COMPLIANT. PROVIDE FLOOR BOX WITH DUPLEX OR QUAD OUTLET AS INDICATED. ALL DUPLEX AND QUAD RECEPTACLES SHALL COMPLY WITH REQUIREMENTS FOUND ELSEWHERE WITHIN THIS SPECIFICATION. PROVIDE ALL ACCESSORIES NECESSARY OR AS RECOMMENDED BY MANUFACTURER TO ACHIEVE A FULLY FUNCTIONING SYSTEM.
a. WHEN (1) DUPLEX RECEPTACLE OR (1) DUPLEX RECEPTACLE AND (1) DATA OUTLET SIDE BY SIDE OR (1) QUAD RECEPTACLE IS INDICATED PROVIDE:
• ON GRADE - HUBBELL CFB2G25RCR WITH CFBS1R6CVRBLK COVER.
• ABOVE GRADE -HUBBELL S1R4PTFIT WITH S1R4CVRBLK COVER.
• OR APPROVED EQUAL.
b. WHEN (1) QUAD RECEPTACLE AND (1) OR (2) DATA OUTLETS ARE INDICATED SIDE BY SIDE PROVIDE:
• ON GRADE -HUBBELL CFB4G30R WITH CFBS1R8CVRBLK COVER.
• ABOVE GRADE -HUBBELL S1R6PTFIT WITH S1R6CVRBLK COVER.
• OR APPROVED EQUAL.
c. WHEN A FURNITURE FEED CONNECTION IS SHOWN PROVIDE:
• ON GRADE -HUBBELL CFB2G25RCR WITH CFBS1R6FFCVRBLK COVER.
• ABOVE GRADE -HUBBELL S1R4PTFIT WITH S1R6FFCVRBLK COVER
• OR APPROVED EQUAL
d. MEDIA BOX:
• ON GRADE -HUBBELL CFB6G30 WITH 610GCCVRBKC (CARPET) OR 610GTCVRBKC (TILE)
• ABOVE GRADE -HUBBELL S1R8PTFIT3 WITH S1R8PT2BLK (CONCRETE) OR S1R8CVRBLK (CARPET) COVER
• OR APPROVED EQUAL.

H. DECORATOR-STYLE DEVICES: (REQUIRES PRIOR APPROVAL)
a. CONVENIENCE RECEPTACLES: SQUARE FACE, 125 V, 15 A; 5-15R.
b. GFCI CONVENIENCE RECEPTACLES: SQUARE FACE, 125 V, 15 A; 5-15R.
c. TOGGLE SWITCHES, SQUARE FACE, 120/277 V, 15 A.
d. LIGHTED TOGGLE SWITCHES, SQUARE FACE, 120 V, 15 A WITH LIGHTED HANDLE, ILLUMINATED WHEN SWITCH IS
"OFF."
e. MANUFACTURER; 1 / 2 / 3 / 4 (SEE ABOVE)
• COOPER; 6252 / VGF15 / 7621 (SINGLE POLE), 7623 (THREE WAY) / 7631 (SINGLE POLE), 7633 (THREE WAY)
• HUBBELL; DR15 / GF15LA / DS115 (SINGLE POLE), DS315 (THREE WAY) / DS120IL (SINGLE POLE), DS320
(THREE WAY)
• LEVITON; 16252 / 8599 / 56291-2 (SINGLE POLE), 5623-2 (THREE WAY) / 5631-2 (SINGLE POLE), 5633-2 (THREE
WAY)
• PASS & SEYMOUR; 26252 / 1594 / 2621 (SINGLE POLE), 2623 (THREE WAY) / 2625 (SINGLE POLE), 2626 (THREE
WAY)

I. WALL PLATES
a. SINGLE AND COMBINATION TYPES SHALL MATCH CORRESPONDING WIRING DEVICES.
b. MATERIAL FOR FINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC OR TYPE 302 STAINLESS STEEL.
c. MATERIAL FOR UNFINISHED SPACES: HIGH-IMPACT THERMOPLASTIC.
d. MATERIAL FOR DAMP LOCATIONS: CAST ALUMINUM WITH SPRING-LOADED LIFT COVER, AND LISTED AND
LABELED FOR USE IN WET AND DAMP LOCATIONS.
e. WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R, WEATHER-RESISTANT,
DIE-CAST ALUMINUM WITH LOCKABLE COVER.

J. FINISHES
a. DEVICE COLOR: AS SELECTED BY ARCHITECT, WHITE, UNLESS OTHERWISE INDICATED. EMERGENCY POWER
SYSTEM: RED. TVSS DEVICES: BLUE.
b. WALL PLATE COLOR: FOR PLASTIC COVERS, MATCH DEVICE COLOR.

K. LOCATION OF OUTLETS AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATELY CORRECT.
HOWEVER, THE EXACT CENTER OF ALL OUTLETS SHALL BE PLACED IN COOPERATION WITH THE GENERAL
CONTRACTOR TO CENTER OUTLETS WITH THE CEILING TILE, TRUSSES AND JOINTS, AND MASONRY UNITS.

L. COORDINATE LOCATIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS IN ORDER TO AVOID INTERFERENCES
WITH CASEWORK, FURNITURE, WINDOWS, EQUIPMENT, AND DOOR SWINGS.

M. INSTALLATION
a. PROTECT INSTALLED DEVICES AND THEIR BOXES. KEEP OUTLET BOXES FREE OF PLASTER, DRYWALL JOINT COMPOUND, MORTAR, CEMENT, CONCRETE, DUST, PAINT, AND OTHER MATERIAL. INSTALL WIRING DEVICES AFTER ALL WALL PREPARATION, INCLUDING PAINTING, IS COMPLETE.
b. CONDUCTORS: STRIP INSULATION EVENLY AROUND THE CONDUCTOR USING TOOLS DESIGNED FOR THE PURPOSE. AVOID SCORING OR NICKING WIRE. THE LENGTH OF FREE CONDUCTORS AT OUTLETS FOR DEVICES SHALL BE 6 INCHES MINIMUM.
c. EXISTING CONDUCTORS: CUT BACK AND PIGTAIL, OR REPLACE ALL DAMAGED CONDUCTORS. PIGTAILING EXISTING CONDUCTORS IS PERMITTED, PROVIDED THE OUTLET BOX IS LARGE ENOUGH.
d. DEVICE INSTALLATION: WHEN THERE IS A CHOICE, USE SIDE WIRING WITH BINDING-HEAD SCREW TERMINALS. WRAP SOLID CONDUCTOR TIGHTLY CLOCKWISE, TWO-THIRDS TO THREE-FOURTHS OF THE WAY AROUND TERMINAL SCREW. USE A TORQUE SCREWDRIVER WHEN A TORQUE IS RECOMMENDED OR REQUIRED BY MANUFACTURER.
e. WHEN CONDUCTORS LARGER THAN NO. 12 AWG ARE INSTALLED ON 15-OR 20-A CIRCUITS, SPLICE NO. 12 AWG PIGTAILS FOR DEVICE CONNECTIONS.
f. MOUNTING HEIGHTS, FINISHED FLOOR TO DEVICE CENTERLINE (UNO):
- SWITCH 42", OVER OBSTRUCTION 44"
- RECEPTACLE, TELEPHONE/DATA OUTLET, 18"
- FIRE ALARM PULL STATIONS 44"
- FIRE ALARM A/V UNITS 80" (OR 6" BELOW CEILING, IF LOWER)
g. RECEPTACLE ORIENTATION: INSTALL GROUND PIN OF VERTICALLY MOUNTED RECEPTACLES UP, AND ON HORIZONTALLY MOUNTED RECEPTACLES TO THE LEFT.

N. GFCI RECEPTACLES: INSTALL NON-FEED-THROUGH-TYPE GFCI RECEPTACLES WHERE PROTECTION OF DOWNSTREAM RECEPTACLES IS NOT REQUIRED.

26 51 00 - INTERIOR AND EXTERIOR LIGHTING

PRODUCTS:

A. PRODUCTS DESCRIBED IN THE LUMINARIES SCHEDULE AS SHOWN ON THE DRAWINGS SHALL
REPRESENT MINIMUM ACCEPTABLE QUALITY STANDARDS.

B. UL/ETL LISTINGS
a. ALL LUMINARIES AND COMPONENTS SHALL BE UL OR ETL TESTED, LISTED, AND LABELED.
b. LUMINARIES INSTALLED UNDER CANOPIES, ROOFS, OR SIMILAR DAMP OR WET LOCATIONS SHALL BE UL OR ETL LISTED AND LABELED AS SUITABLE FOR DAMP OR WET LOCATIONS.
c. RECESSED LUMINARIES INSTALLED IN FIRE RATED CEILINGS AND USING A FIRE RATED PROTECTIVE COVER SHALL BE THERMALLY PROTECTED FOR THIS APPLICATION AND SHALL BE APPROVED FOR THE INSTALLATION IN A FIRE-RATED CEILING.

C. INTERIOR AND EXTERIOR LUMINARIES AND ACCESSORIES
a. AS SCHEDULED ON DRAWINGS.
b. VERIFY ALL FINISHES WITH ARCHITECT.

D. BALLASTS: ALL BALLASTS SHALL BE ELECTRONIC UL LISTED CLASS "P".

E. SITE LIGHTING POLES
a. BY LUMINAIRE MANUFACTURER UNLESS OTHERWISE SPECIFIED.
b. SITE LIGHTING POLES SHALL MEET EPA WIND LOAD RATING REQUIREMENTS.
c. THE EXISTING SITE STANDARD FOR POLES SHALL BE USED. IN THE ABSENCE OF A SITE STANDARD, POLES SHALL BE SQUARE STRAIGHT STEEL POLES AS SCHEDULED ON THE DRAWINGS AND AS FOLLOWS:
d. REFER TO POLE BASE DETAILS AS SHOWN ON THE DRAWINGS FOR SPECIFIC POLE BASE REQUIREMENTS. IN THE ABSENCE OF SPECIFIC STRUCTURAL DETAILS, SUPPLIER SHALL PROVIDE SEALED STRUCTURAL CALCULATIONS AND POLE BASE DIMENSIONS FOR SITE POLE BASES.
e. CONSTRUCT POLE BASES OF CONCRETE WITH DIMENSIONS AND DEPTHS AS NOTED ON THE DRAWINGS OR AS CALCULATED BY POLE SUPPLIER'S ENGINEERED CALCULATIONS. INSTALL ANCHOR BOLTS WITH MINIMUM PROJECTION ABOVE TOP OF BASES, AS SPECIFIED BY POLE MANUFACTURER. GROUND AS INDICATED ON DRAWINGS. MOUNT STANDARDS ON BASES PLUMB AND TRUE UTILIZING SHIMS AS NECESSARY. GROUT THOROUGHLY BETWEEN BASE-PLATE AND FOUNDATION. PROVIDE AND INSTALL POLE BASE COVERS ON ALL POLES.
f. STANDARD FINISH FOR POLE AND ACCESSORIES SHALL BE A FACTORY APPLIED POLYESTER THERMOSETTING POWDER COATING ELECTROSTATICALLY APPLIED TO THE SURFACE OF THE SUBSTRATE TO A MINIMUM THICKNESS OF 3 MIL. COLOR AS SPECIFIED.
g. GROUND ALL POLES TO POLE BASE REBAR OR GROUND ELECTRODE SYSTEM WITH A #4 BARE COPPER CONDUCTOR IN ADDITION TO THE EQUIPMENT GROUND CONDUCTOR PROVIDED WITH THE BRANCH CIRCUIT.

INSTALLATION:

A. VERIFY ALL CEILING TYPES AND COORDINATE WITH LUMINARIES AND ACCESSORIES.

B. FURNISH AND INSTALL LAMPS IN LUMINARIES AND LAMP HOLDERS.

C. RECESSED LUMINARIES TRIMS SHALL FIT SNUGLY TO THE MOUNTING SURFACE AND SHALL NOT EXHIBIT LIGHT LEAKS OR GAPS. PROVIDE HEAT RESISTANT RUBBER GASKETING WHERE NECESSARY. PROVIDE FEED-THROUGH JUNCTION BOXES OR PROVIDE SEPARATE JUNCTION BOXES. ALL COMPONENTS SHALL BE ACCESSIBLE THROUGH THE CEILING OPENING.

D. MARK STANDARD LUMINARIES EQUIPPED WITH EMERGENCY POWER WITH A RED ADHESIVE STICKER (NOT MORE THAN 3/8-INCH IN DIAMETER) MOUNTED ON METAL DOOR FRAME.

E. PROVIDE IN-LINE FUSING AT HANDHOLE FOR ALL POLE MOUNTED LUMINARIES.

F. LEAVE LUMINARIES CLEAN AND FREE OF ANY VISIBLE DUST, DEBRIS, OR FINGERPRINTS WITH ALL LAMPS OPERATIONAL AT TIME OF ACCEPTANCE OF WORK. RE-LAMP INOPERABLE LAMPS AT COMPLETION OF WORK.

G. COORDINATE WITH OTHER CRAFTS TO AVOID CONFLICTS BETWEEN iLUMINAIRES, SUPPORTS, FITTINGS AND MECHANICAL EQUIPMENT.

H. RECESSED FLUORESCENT AND LED FIXTURES:
a. ALL RECESSED FLUORESCENT AND LED TROFFERS SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE CEILING WITH GALVANIZED STEEL WIRE AT NOT LESS THAN 4 POINTS NEAR CORNERS OF FIXTURE. SIZE OF WIRE SHALL BE CAPABLE OF SUPPORTING WEIGHT
OF FIXTURES.
b. RECESSED FLUORESCENT AND LED LUMINARIES: PROVIDE TRIM TYPE AND ACCESSORIES REQUIRED FOR INSTALLATION IN CEILING SYSTEM (INCLUDING SLOPED CEILINGS, FIRE RATED CEILINGS, ETC.) AS INDICATED PER LUMINAIRE SCHEDULE.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.1	ELECTRICAL NOTES & LEGENDS
E0.2	ELECTRICAL SYMBOLS
E1.0D	ELECTRICAL DEMOLITION FLOOR PLAN
E1.1	ELECTRICAL POWER FLOOR PLAN
E1.2	ELECTRICAL LIGHTING FLOOR PLAN
E5.1	POWER DETAILS
E6.1	ELECTRICAL SCHEDULES
E6.2	ELECTRICAL SCHEDULES
E7.1	ELECTRICAL GROUNDING

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ID:	REVISION:	DRAWN:	REVIEWED:	DATE:

PHASE:	DRAWN:	REVIEWED:	DATE:
SCHEMATIC DESIGN	JD	LN	05/15/26
50% SUBMITTAL	JD	LN	05/27/26
100% CD'S	JD	LN	06/24/26

FSU

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76
Phase: 100% Construction Documents

LINUS E. NANDATI LICENSE No. 90934 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal: Linus E Nandati, PE#90934

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Description:
ELECTRICAL NOTES & LEGENDS

Sheet No.:
E0.1

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* ALL MAY NOT APPLY

ONE-LINE DIAGRAM

- AM — AMMETER
- # — CABLE AND CONDUIT TAG SEE SCHEDULE
- CONTACTOR
- CONTROL OR POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- DELTA CONNECTION
- 30A/20A — DISCONNECT SWITCH, FUSED (SWITCH/FUSE RATING)
- 30A — DISCONNECT SWITCH, UNFUSED (SWITCH RATING)
- DRAWOUT AIR CIRCUIT BREAKER
- FUSE WITH RATING
- FUSED DRAWOUT POTENTIAL TRANSFORMER
- FUSIBLE SWITCH
- GROUND
- INCOMING LINE
- KWH — KILOWATT HOUR METER
- MOLDED CASE CIRCUIT BREAKER
- XX — PANELBOARD
- PB — PULL BOX
- R — RELAY
- RELAY CONTACT NORMALLY CLOSED
- RELAY CONTACT NORMALLY OPEN
- ST — SHUNT TRIP
- STARTER OR MOTOR CONTROLLER
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- SURGE AND LIGHTNING ARRESTER
- SWITCH AND FUSE UNIT
- TRANSFORMER
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- UTILITY METER
- VM — VOLTMETER
- WYE CONNECTION

FLOOR PLAN - POWER

- CEILING MOUNTED RECEPTACLE
- CONDUIT STUBBED DOWN
- CONDUIT STUBBED UP
- DISCONNECT SWITCH
- FLEXIBLE CONDUIT
- FLOOR RECEPTACLE, DUPLEX
- GROUND
- E — HARDWIRED POWER CONNECTION
- HOMERUN TO PANELBOARDS
- H — HUMIDISTAT
- J — JUNCTION BOX WITH DISCONNECT SWITCH AND FLEXIBLE CONDUIT CONNECTION
- LADDER CABLE TRAY
- MOTOR
- PANELBOARD
- JB — POWER JUNCTION BOX
- PB — PULL BOX
- RECEPTACLE, DUPLEX
- GFI — RECEPTACLE, DUPLEX WITH GROUND FAULT INTERRUPTER
- RECEPTACLE, QUADRAPLEX
- SPECIAL RECEPTACLE - SEE FLOOR PLAN OR MANUFACTURER SPEC SHEETS FOR DETAILS
- T — THERMOSTAT
- TC — TIME CLOCK
- T — TRANSFORMER, PLAN

FLOOR PLAN - LIGHTING

- EMERGENCY BATTERY BACK-UP EGRESS LIGHT
- EXIT SIGN - DOUBLE FACED CEILING OR WALL MOUNTED. ARROW INDICATES DIRECTION
- EXIT SIGN - SINGLE FACED CEILING OR WALL MOUNTED. ARROW INDICATES DIRECTION
- LIGHT FIXTURE, EMERGENCY
- LIGHT FIXTURE, 1'x4'
- LIGHT FIXTURE, 2'x2'
- LIGHT FIXTURE, 2'x4'
- LIGHT FIXTURE RECESSED ROUND CEILING MOUNTED DOWNLIGHT
- LIGHT FIXTURE RECESSED SQUARE CEILING MOUNTED DOWNLIGHT
- LIGHT FIXTURE, STRIP/INDUSTRIAL LED; LETTER INDICATES TYPE.
- LIGHT TRACK WITH HEADS AS SHOWN
- LIGHTING, UNDERCABINET LIGHT/COVE LIGHT
- $2 — SWITCH

BLANK = SINGLE POLE	3 = THREE-WAY
4 = FOUR-WAY	K = KEY OPERATED
DM= DIMMER	P = WITH PILOT LIGHT
LV= LOW VOLTAGE	T = TIMER OPERATED
WP=WEATHER PROOF	X = EXPLOSION PROOF
RC= REMOTE CONTROL	OS= OCCUPANCY SENSOR
3/DM = THREE-WAY / DIMMER	OS/DM = OCCUPANCY SENSOR / DIMMER

- PC — SWITCH, EXTERIOR PHOTO CELL FOR CONTROL OF EXTERIOR LIGHTING
- OS — SWITCH, OCCUPANCY SENSOR REFER TO SHEET NOTES FOR TYPE

FLOOR PLAN - FIRE ALARM

- P — ALARM, FIRE, MANUAL PULL STATION
- ALARM, HORN/STROBE
- S — ALARM, SPEAKER/STROBE
- ALARM, STROBE
- SD — SMOKE DETECTOR
- DSD — DUCT SMOKE DETECTOR
- HD — HEAT DETECTOR
- FACP — FIRE ALARM CONTROL PANEL
- FR — FIRE ALARM SHUT DOWN RELAY

FLOOR PLAN - TELECOM

- 3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.
- ACP — ACCESS CONTROL PANEL
- CCP — CAMERA CONTROL PANEL
- CR — CARD READER
- CR/K — CARD READER WITH KEYPAD
- COAXIAL OUTLET
- CB — CODE BULE LIGHT
- HDMI OUTLET
- KP — KEYPAD
- N — NURSE CALL DOME LIGHT-CEILING MOUNTED.
- N — NURSE CALL DOME LIGHT-WALL MOUNTED OVER DOOR UNLESS OTHERWISE NOTED.
- NCD — NURSE CALL DUTY STATION-MOUNTED OVER COUNTER UNLESS OTHERWISE NOTED.
- N — NURSE CALL SWITCH
- A — SECURITY / DURESS-ALARM BUTTON
- C — SECURITY CAMERA
- TELECOM OUTLET
- TELECOM OUTLET - CEILING MOUNTED
- TELECOM OUTLET - FLOOR MOUNTED
- TV — TELEVISION OUTLET
- WAP — WIRELESS ACCESS POINT

ABBREVIATIONS

* ALL MAY NOT APPLY

A	AMPS
AC	ABOVE COUNTER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
ATU	AIR TERMINAL UNIT
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKR	CIRCUIT BREAKER
BLDG	BUILDING
BOD	BASIS OF DESIGN
C	CONDUIT
C/B,CB	CIRCUIT BREAKER
CLG	CEILING
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DEMO	DEMOLISH
DIV	DIVISION
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
EF	EXHAUST FAN
EX	EXISTING TO REMAIN
EXT	EXTERIOR
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
FMC	FLEXIBLE METAL CONDUIT
FACP	FIRE ALARM SYSTEM CONTROL PANEL
FBC	FLORIDA BUILDING CODE
FU	FUSE
F/A,FA	FIRE ALARM
FLA	FULL LOAD AMPS
FR	FRAME RATING
GFI	GROUND FAULT INTERRUPTER
GC	GENERAL CONTRACTOR
GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR-CONDITIONING
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
k	KILO
kAIC	KILO-AMPERE INTERRUPTING CAPABILITY
kCMIL	THOUSAND CIRCULAR MILS
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N1	NEMA 1
N3R	NEMA 3R
N/A,NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NEU	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVERCURRENT PROTECTION DEVICE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVERHEAD
OFOI	OWNER FURNISHED OWNER INSTALLED
PEM	POWER ENERGY MONITOR
PF	POWER FACTOR
PNL	PANELBOARD
PQM	POWER QUALITY METER
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PWR	POWER
RCPT/REC	RECEPTACLE
RCW	RACEWAY
REQD	REQUIRED
RM	ROOM
RGS	RIGID GALVANIZED STEEL CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
RVSS	REDUCED VOLTAGE SOLID STATE
SAD	SURGE ARRESTER DEVICE
SCA	SHORT CIRCUIT AMPS
SEC	SECONDARY
SF	SUPPLY FAN
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TCC	TIME CURRENT CURVE
TR	TELECOMMUNICATIONS ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TX	TRANSFORMER
TYP	TYPICAL
UC	UNDER COUNTER
URCW	UNDERFLOOR RACEWAY
UG/URD	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERES
VAR	VOLT-AMPERES REACTIVE
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WAO	WORK AREA OUTLET
WP	WEATHERPROOF
WSR	WITHSTAND RATING
WW	WIREWAY
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
PH	PHASE
72°	DEGREES
D	DELTA
W	OHMS
Y	WYE

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100% CD'S	JD	LN	06/24/26

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76

Phase: 100% Construction Documents

LINUS E. NANDATI — LICENSE — No. 90934 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Seal: Linus E Nandati, PE#90934

ALW
Architects Lewis + Whitlock
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Description: ELECTRICAL SYMBOLS

Sheet No.: E0.2

ELECTRICAL DEMOLITION GENERAL NOTES

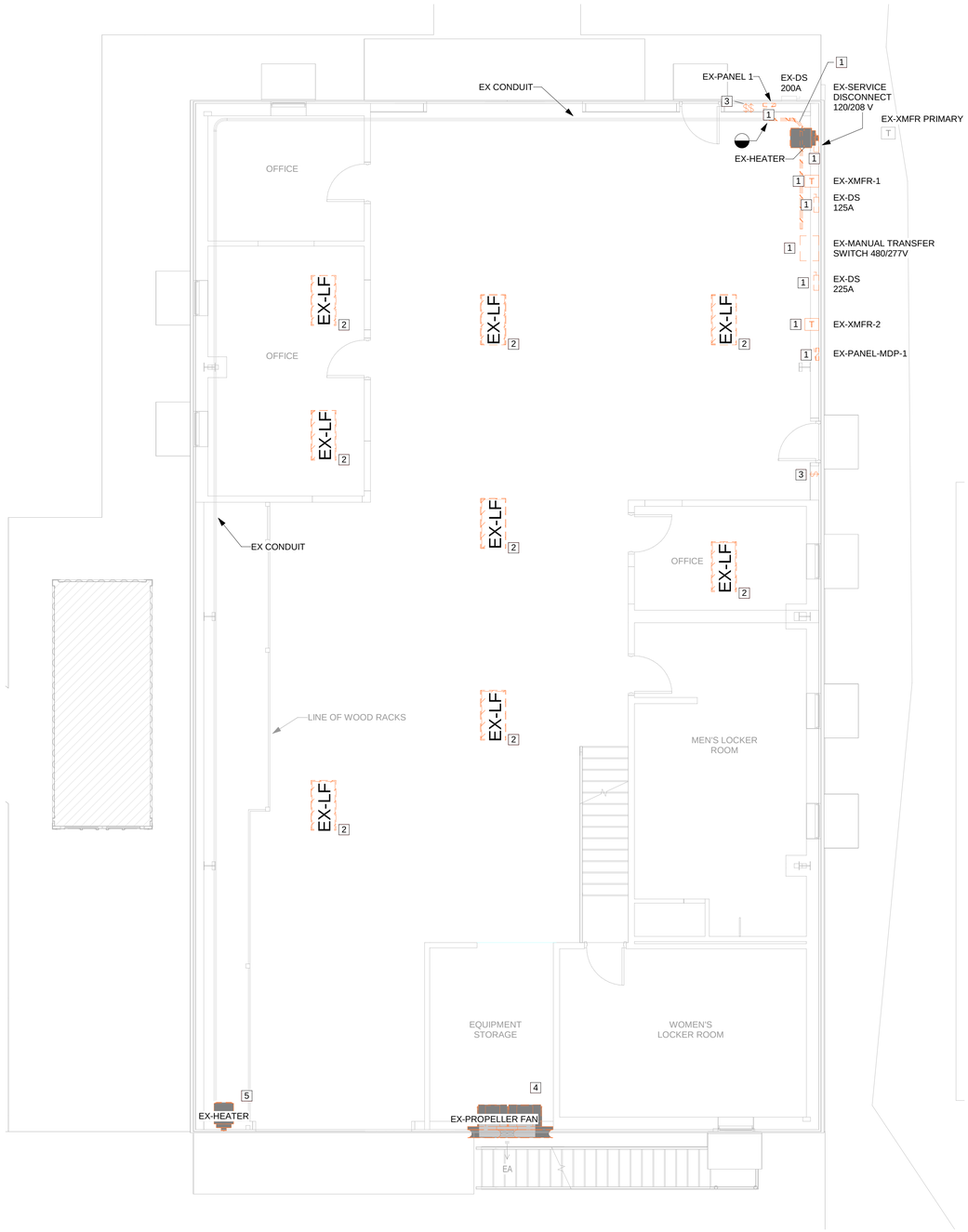
1. BOLDED AND DASHED-BOLDED OBJECTS ARE TO BE DEMOLISHED
HALFTONED SOLID LINED OBJECTS ARE EXISTING TO REMAIN.

2. SALVAGE AS MUCH DEMOLITION MATERIAL AS PRACTICAL, UNLESS NOTED OTHERWISE.

3. ENCLOSED OFFICE SPACES ARE NOT IN SCOPE.

KEYED NOTES

X	
1	CONTRACTOR MAY ELECT: (A) TEMPORARILY REMOVE EXISTING ELECTRICAL EQUIPMENT, INSTALL PERIMETER INSULATION PER ARCHITECTURAL SPECIFICATIONS, AND REINSTALL; OR (B) INSTALL PERIMETER INSULATION AROUND EXISTING EQUIPMENT WITH BLOCKING/FRAMING. COORDINATE WITH ELECTRICAL FOR POWER-DOWN, DISCONNECT, AND REINSTALLATION.
2	DEMOLISH LIGHT FIXTURE SUSPENDED FROM WAREHOUSE CEILING.
3	DEMOLISH ONLY THOSE LIGHT SWITCHES SERVING INTERIOR LIGHTING.
4	REMOVE EXISTING GABLE FAN. DISCONNECT, CAP, AND TERMINATE ASSOCIATED ELECTRICAL SERVICE BACK TO SOURCE. TURN BREAKER OFF AND LABEL AS SPARE.
5	DISCONNECT AND REMOVE EXISTING ELECTRICAL SERVICE TO EXISTING HEATER. REMOVE ABANDONED CONDUIT, WIRING, AND DISCONNECT BACK TO PANEL/SOURCE. TURN BREAKER OFF AND LABEL AS SPARE.



1 E1.0D — DEMOLITION FLOOR PLAN - ELECTRICAL
Scale: 3/16" = 1'-0"



REMOVE AND STORE EXISTING CONDUIT FOR RELOCATION.

2 E1.0D — CONDUIT PICTURE
No Scale

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FSU

Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 193370.76
Phase: 100% Construction Documents

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Description:
ELECTRICAL DEMOLITION FLOOR PLAN

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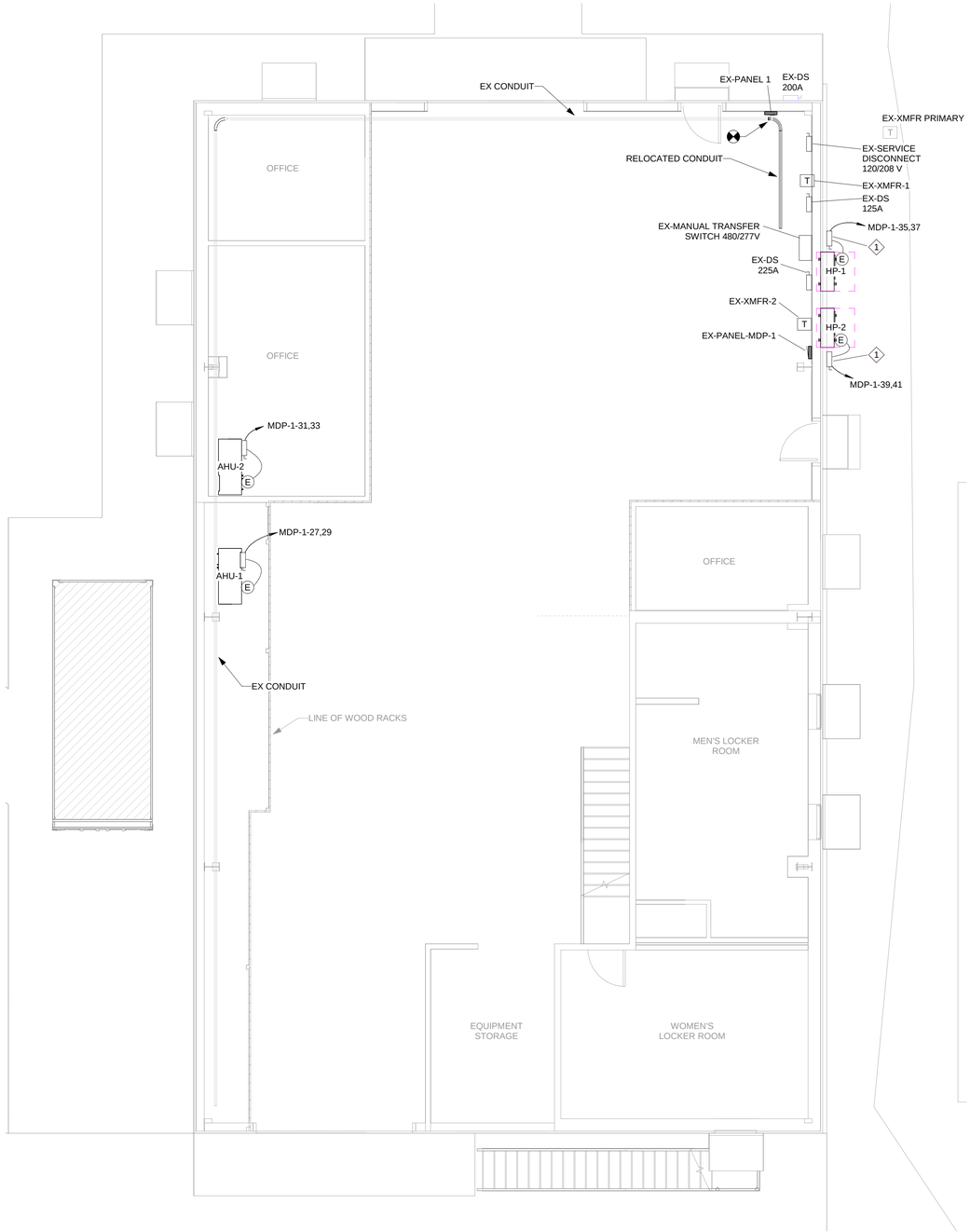
POWER RENOVATION GENERAL NOTES

1. BOLD OBJECTS ARE NEW. HALFTONED/GRAY OBJECTS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

2. CONTRACTOR SHALL VERIFY MEANS OF DISCONNECT FOR ALL EQUIPMENT PRIOR TO PURCHASE. REFER TO EQUIPMENT SCHEDULE FOR DETAILS.

KEYED NOTES

1	MOUNT DISCONNECT SWITCH ON SUPPORT STRUCTURE.



1 / E1.1 FLOOR PLAN - POWER

Scale: 3/16" = 1'-0"

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Job Title: Haskin Circus Complex 0117 - Install HVAC System

Tallahassee, Florida

Consultant:

Project #: 19370.76

Phase: 100% Construction Documents

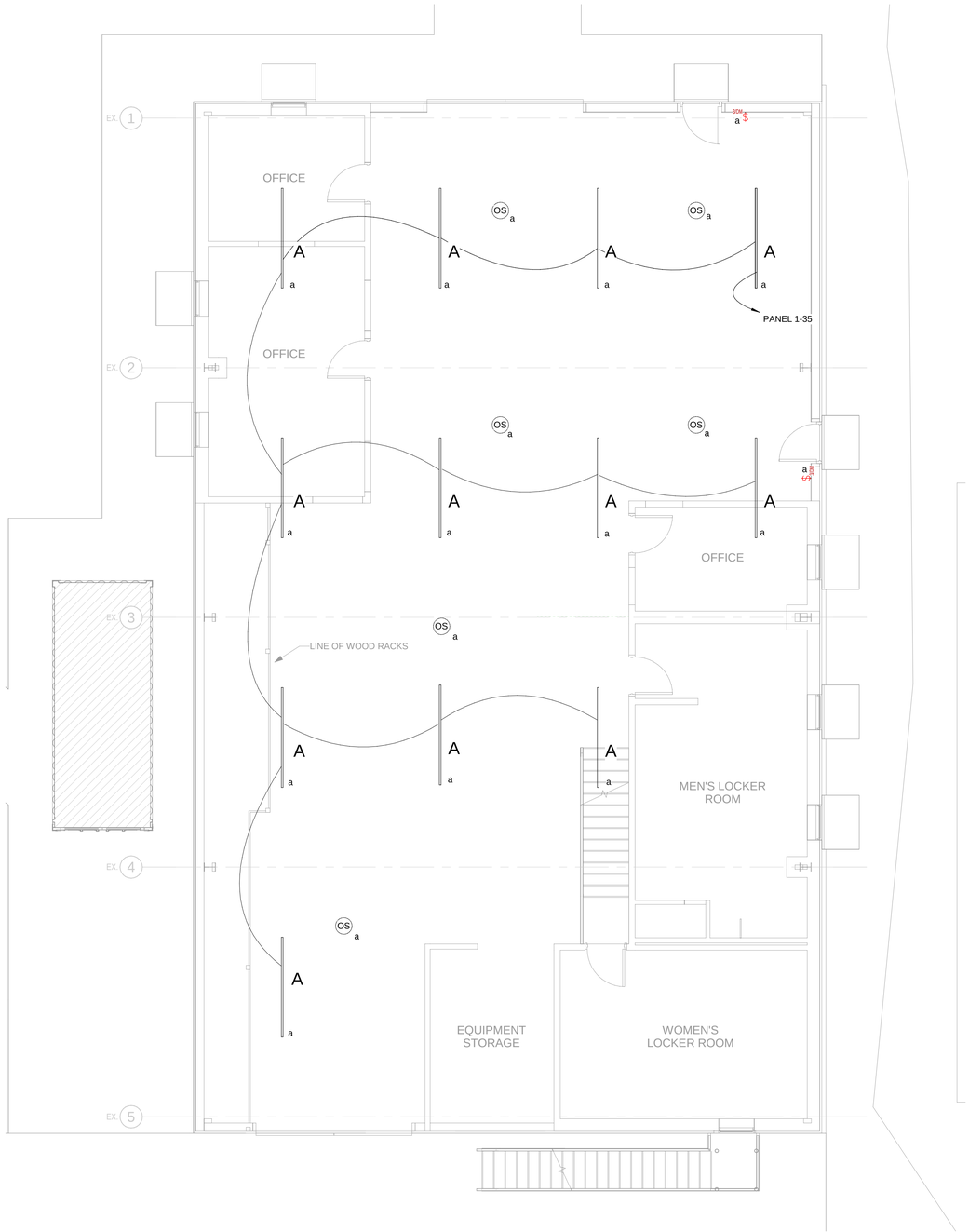


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Description:
ELECTRICAL POWER
FLOOR PLAN

Sheet No.:
E1.1



1 E1.2 RENOVATION FLOOR PLAN - LIGHTING

Scale: 3/16" = 1'-0"

LIGHTING RENOVATION GENERAL NOTES

1. BOLD OBJECTS ARE NEW. HALFTONED/GRAY OBJECTS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

2. CONTRACTOR SHALL VERIFY MEANS OF DISCONNECT FOR ALL EQUIPMENT PRIOR TO PURCHASE. REFER TO EQUIPMENT SCHEDULE ON SHEET E6.1 FOR DETAILS.

3. SUSPEND LIGHTING FIXTURE TYPE 'A' WITH BOTTOM OF FIXTURE AT 21'-9" A.F.F.

4. BASIS OF DESIGN FOR CEILING MOUNTED OCCUPANCY SENSORS IS WATTSTOPPER DT-305.

KEYED NOTES

X

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Consultant:

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Phase: 100% Construction Documents

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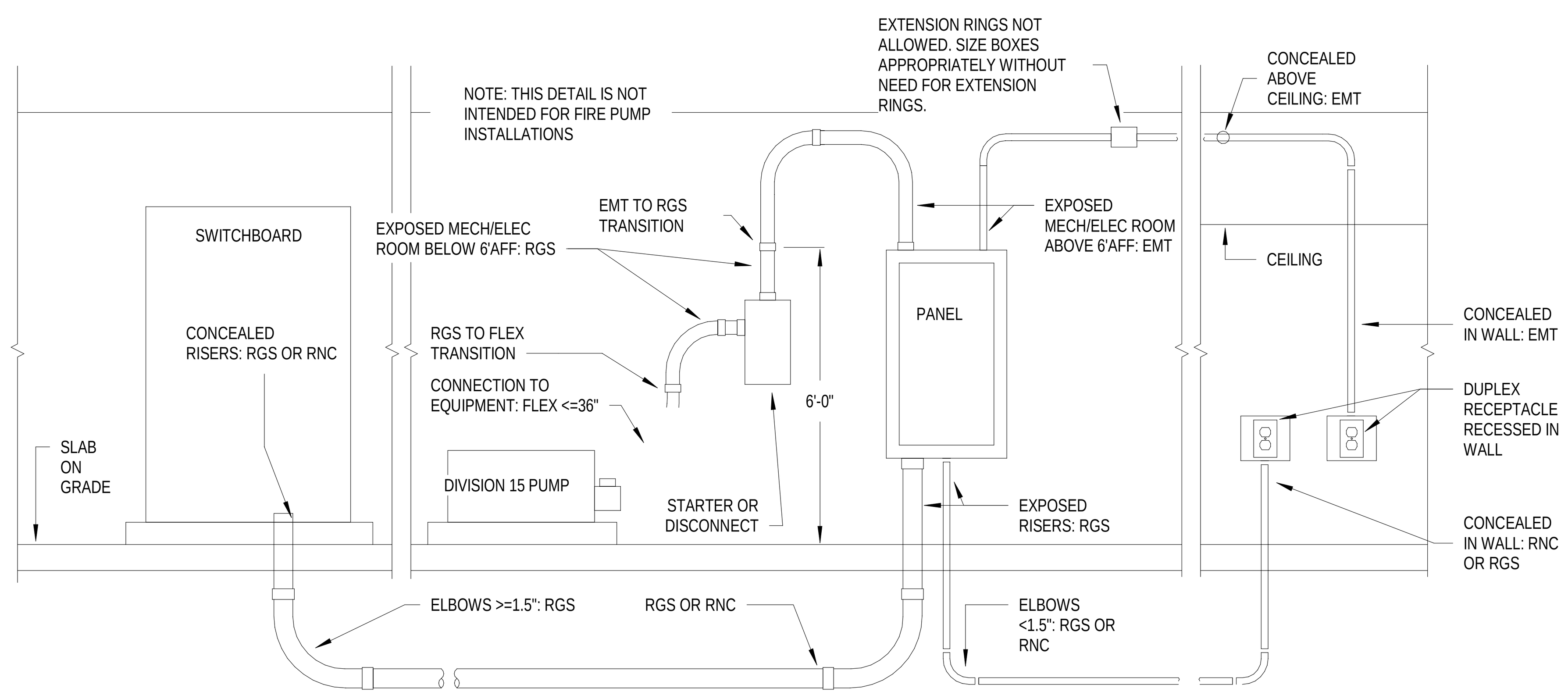
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Description: ELECTRICAL LIGHTING FLOOR PLAN

Sheet No.: E1.2

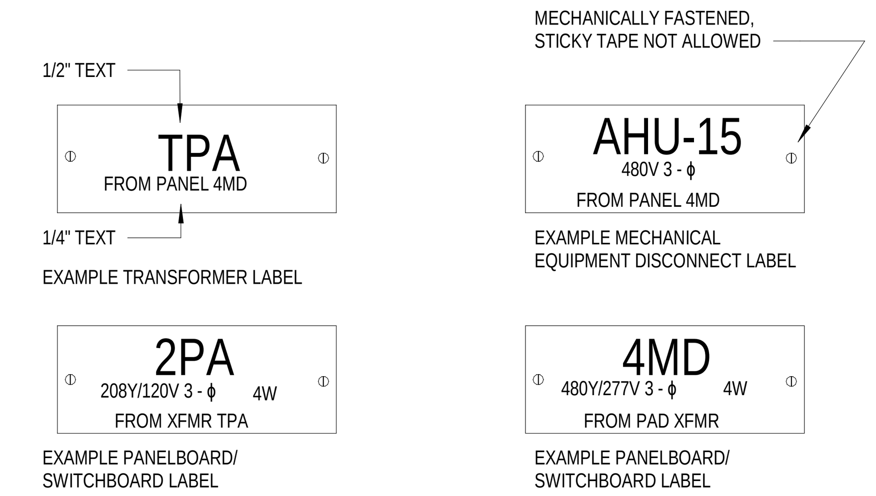
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NOTE: THE SPECIFICATIONS ALWAYS PREVAIL OVER THIS DETAIL. SEE SPECIFICATON SECTION BASIC MATERIALS AND METHODS FOR ADDITIONAL INFORMATION, EXCEPTIONS, ETC.

1 / E5.1 POWER & DISTRIBUTION RACEWAY APPLICATION DETAIL

No Scale

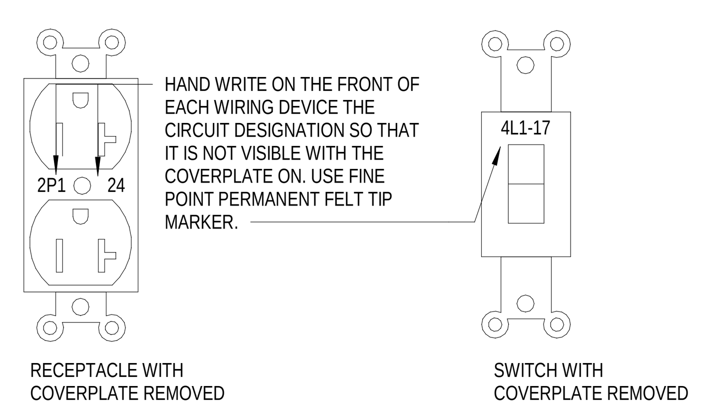


ENGRAVED PLASTIC TAG. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH A MINIMUM OF 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS. ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. DIMENSIONS SHALL BE AS REQUIRED TO FIT APPROPRIATE TEXT. COLORS AS FOLLOWS:

SYSTEM	LETTERS	BACKGROUND
NORMAL	BLACK	WHITE
EMERGENCY/LIFE SAFETY	WHITE	RED
LEGALLY REQUIRED	WHITE	ORANGE
OPTIONAL STANDBY	BLACK	YELLOW
CRITICAL	WHITE	ORANGE
EQUIPMENT	WHITE	GREEN
GROUNDING SYSTEM	WHITE	GREEN

2 / E5.1 TYPICAL EQUIPMENT LABELING DETAIL

No Scale



3 / E5.1 WIRING DEVICE LABEL DETAIL

No Scale

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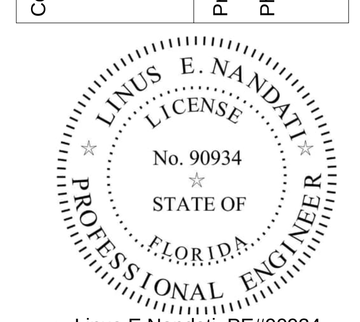
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Description: POWER DETAILS

Sheet No.: E5.1

MOUNTING HEIGHTS FOR ELECTRICAL DEVICES	
DEVICE	MOUNTING HEIGHTS
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
PLUGMOLD OR WIREMOLD	AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
CLOCK OUTLETS	12" CEILING TO CENTERLINE OR 7'-0" TO CENTERLINE IF CEILING IS OVER 8'-0".
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.
TELEPHONE OUTLETS - WALL TYPE	54" TO DIAL CENTER (NON-ACCESSIBLE). 48" TO HIGHEST OPERABLE PART (ACCESSIBLE).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.
FIRE ALARM MANUAL PULL STATIONS	48" TO CENTERLINE OF BOX - NOT MORE THAN 5'-0" FROM EXIT.
FIRE ALARM AUDIBLE ONLY DEVICE	NO LESS THAN 90" TO TOP OR 6" BELOW CEILING, WHICH EVER IS HIGHER.
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWER.
AREA OF REFUGE TELEPHONE	SAME AS TELEPHONE - ACCESSIBLE.
CALL FOR AID SWITCH WITH PULL CHAIN TO FLOOR	48" TO CENTERLINE OF BOX MINIMUM (TOILETS). 66" TO CENTERLINE OF BOX MAXIMUM (SHOWERS - LOCATED OUT OF SPRAY AREA).
CARD READER	48" TO HIGHEST OPERABLE PART (SIDE OR FORWARD ACCESS).
INTERCOM STATION	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
SOUND SYSTEM VOLUME CONTROL	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
MICROPHONE OUTLETS	16" TO BOTTOM OF BOX.
THERMOSTATS	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).

MOUNTING HEIGHTS NOTES:

1. ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.
2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.
3. OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.

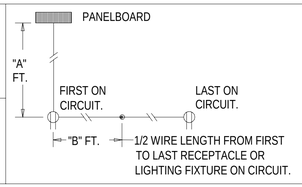
MOUNTING HEIGHTS SPECIAL NOTES:

1. EXIT SIGNS SHALL NOT BE INSTALLED IN A MANNER THAT THE SIGN WILL BLOCK FIRE ALARM VISUAL DEVICES.
2. FOR LIGHTING FIXTURE MOUNTING HEIGHTS, SEE SCHEDULE AND DRAWINGS.

WIRE SIZING TABLE

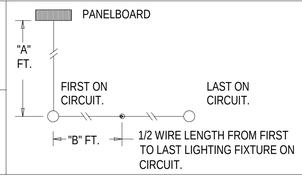
FOR 120V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FEET IS: (REFER TO DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.
0' TO 100' 100' TO 175' 175' TO 300' 300' TO 450'	#12 AWG (MIN.) #10 AWG #8 AWG #6 AWG (MAX.)



FOR 277V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FEET IS: (REFER TO DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.
0' TO 250' 250' TO 400' 400' TO 700' 700' TO 1000'	#12 AWG (MIN.) #10 AWG #8 AWG #6 AWG (MAX.)



NOTES:

1. TABLES ARE BASED ON EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET.
2. 480V MOTOR BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG IN 3/4" C UNLESS OTHERWISE NOTED.
3. SIZE OF CONDUCTORS ARE BASED UPON EACH MOTOR BEING FED WITH SEPARATE CONDUIT. IF CONDUCTORS FOR TWO MOTORS (MAX.) ARE TO BE COMBINED IN ONE CONDUIT, INCREASE THE SIZE OF CONDUCTORS AND CONDUITS PER NATIONAL ELECTRICAL CODE (NEC), TO COMPENSATE FOR CONDUCTOR DE-RATING.
4. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.

FEEDER SCHEDULE (COPPER)

TAG	CIRCUIT INFORMATION						
	QTY RUNS	PHASE CONDUCTORS	N	G	C	°C RATING	AMPACITY
30	1	# 10	# 10	# 10	1"	60°	30 A
40	1	# 8	# 8	# 10	1"	60°	40 A
50	1	# 6	# 6	# 10	1"	60°	55 A
60	1	# 4	# 4	# 10	1-1/4"	60°	70 A
70	1	# 4	# 4	# 8	1-1/4"	60°	70 A
80	1	# 3	# 3	# 8	1-1/2"	60°	85 A
90	1	# 2	# 2	# 8	1-1/2"	60°	95 A
100	1	# 1	# 1	# 8	1-1/2"	60°	110 A
125	1	# 1	# 1	# 6	2"	75°	130 A
150	1	# 1/0	# 1/0	# 6	2"	75°	150 A
175	1	# 2/0	# 2/0	# 6	2"	75°	175 A
200	1	# 3/0	# 3/0	# 6	2-1/2"	75°	200 A
225	1	# 4/0	# 4/0	# 4	3"	75°	230 A
250	1	# 250	# 250	# 4	3"	75°	255 A
300	1	# 350	# 350	# 4	3"	75°	310 A
400	2	# 3/0	# 3/0	# 3	2-1/2"	75°	400 A
500	2	# 250	# 250	# 2	3"	75°	510 A
600	2	# 350	# 350	# 1	3"	75°	620 A
800	3	# 300	# 300	# 1/0	3"	75°	855 A
1000	3	# 400	# 400	# 2/0	3-1/2"	75°	1005 A
1200	4	# 350	# 350	# 3/0	3-1/2"	75°	1240 A
1600	5	# 400	# 400	# 4/0	3-1/2"	75°	1675 A
2000	6	# 400	# 400	# 250	3-1/2"	75°	2010 A
2500	7	# 500	# 500	# 350	3-1/2"	75°	2660 A
3000	8	# 500	# 500	# 400	4"	75°	3040 A
4000	11	# 500	# 500	# 500	4"	75°	4180 A

NOTES:

1. IF FEEDER IS FROM UTILITY TRANSFORMER TO FIRST MEANS OF DISCONNECT, DO NOT PROVIDE GROUND WIRE.
2. IF 3PH/3W IS INDICATED, DO NOT PROVIDE NEUTRAL WIRE.

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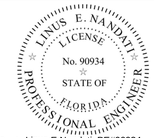
Client: Florida State University

Job Title: Haskin Circus Complex 0117 - Install HVAC System
Tallahassee, Florida

Consultant:

Project #: 19370.76

Phase: 100% Construction Documents



Seal: Linus E Nandati, PE#90934

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Description:
ELECTRICAL SCHEDULES

Sheet No.:
E6.1

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LIGHT FIXTURE SCHEDULE

TAG	QUANTITY	DESCRIPTION	MANUFACTURER	CATALOG #	COLOR TEMP	LUMENS	INPUT WATTS	DIMMABLE	VOLTAGE	MOUNTING	NOTES	IMAGE
A	13	8' INDIRECT LINEAR LIGHTING	JESCO	LIN4-DI-96-60W-DSW1-OP-XX https://www.jescolighting.com/wp-content/specsheets/LIN4-DI_Specs.pdf	3500K	10400 lm	80W	YES, 0-10V	120-277V	SUSPENDED AT 21'-9" A.F.F.	100% INDIRECT, 0% DIRECT LIGHTING SUSPENDED WITH CABLE	

NOTES

SCHEDULE TO BE FINALIZED WITH SESCO LIGHTING VENDOR

FIXTURES WITH HALF FILLED IN CENTER OR SUBSCRIPT EM SHALL BE PROVIDED WITH A BATTERY PACK. PROVIDE UNSWITCHED NORMAL CKT TO BATTERY PACK.

FIXTURES WITH HALF FILLED IN CENTER OR SUBSCRIPT EM SHALL BE PROVIDED WITH A BODINE GTD DEVICE. PROVIDE UNSWITCHED NORMAL AND UNSWITCHED EMERGENCY CKT TO GTD.

PROVIDE 0-10V WIRES FROM SWITCH/CONTROLLER TO ALL 0-10V DIMMABLE FIXTURES.

IF THERE IS A DISCREPANCY BETWEEN THE NOTES AND THE CATALOG NUMBER, THE NOTES SHALL PREVAIL.

PRIOR APPROVAL SUBMITTALS FOR MANUFACTURERS NOT LISTED MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW.

MANUFACTURERS NOT LISTED WILL NOT BE ACCEPTED UNLESS APPROVED BY ADDENDUM PRIOR TO BID.

Branch Panel: MDP-1

Location: CIRCUS STORAGE
Supply From: UTILITY
Mounting: SURFACE
Enclosure: NEMA-1

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

A.I.C. Rating: EXISTING
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:
1. NEW CIRCUITS ARE INDICATED IN BOLD TEXT AND SHALL OCCUPY EXISTING UNUSED PANEL SPACES.

CKT	Circuit Description	Trip	Poles	A (kVA)		B (kVA)		C (kVA)		Poles	Trip	Circuit Description	CKT
1	TV TRUCK FEED	100 A	3	0.00	0.00					2	100 A	PANEL 3&4	2
3	--	--	--			0.00	0.00			--	--	--	4
5	--	--	--					0.00	0.00	1	20 A	RECEPTS	6
7	EXISTING LOAD	100 A	3	0.00	0.00					1	20 A	RECEPTS	8
9	--	--	--			0.00	0.00			1	20 A	RECEPTS	10
11	--	--	--					0.00	0.00	3	20 A	EXHAUST FAN	12
13	REC DATA ROOM	20 A	1	0.00	0.00					--	--	--	14
15	HP-1	15 A	2			0.00	0.00			--	--	--	16
17	--	--	--					0.00	0.00	1	20 A	RECEPTS S EXTERIOR	18
19	HP-2	25 A	2	0.00	0.00					1	20 A	RECEPTS N EXTERIOR	20
21	--	--	--			0.00	0.00			1	20 A	RECEPTS 201/202	22
23	HP-3	25 A	2					0.00	--	1	--	SPACE	24
25	--	--	--	0.00	0.00					2	30 A	EXISTING LOAD	26
27	**AHU-1**	35 A	2			2.78	0.00			--	--	--	28
29	**--**	--	--					2.78	0.00	1	20 A	EXISTING LOAD	30
31	**AHU-2**	35 A	2	2.78	0.00					1	20 A	EXISTING LOAD	32
33	**--**	--	--			2.78	0.00			1	15 A	EXISTING LOAD	34
35	**HP-1 WAREHOUSE**	35 A	2					2.88	--	1	--	SPACE	36
37	**--**	--	--	2.88	--					1	--	SPACE	38
39	**HP-2 WAREHOUSE**	35 A	2			2.88	--			1	--	SPACE	40
41	**--**	--	--					2.88	--	1	--	SPACE	42
		HVAC Load		5.66 kVA		8.44 kVA		8.54 kVA					
		HVAC Amps		47 A		74 A		75 A					

Legend:

Panel Totals

New HVAC Conn. Load:	22.63 kVA
New HVAC Conn.:	63 A

Notes:

Branch Panel: PANEL 1

Location: CIRCUS STORAGE
Supply From: TRANSFORMER-1
Mounting: SURFACE
Enclosure: NEMA-1

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

A.I.C. Rating: EXISTING
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:
1. NEW CIRCUITS ARE INDICATED IN BOLD TEXT AND SHALL OCCUPY EXISTING UNUSED PANEL SPACES.

CKT	Circuit Description	Trip	Poles	A (kVA)		B (kVA)		C (kVA)		Poles	Trip	Circuit Description	CKT
1	RECEPTS/LIGHTS	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	2
3	RECEPTS/LIGHTS	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	4
5	EXISTING LOAD	20 A	1					0.00	0.00	1	20 A	BLUE LIGHT	6
7	EXISTING LOAD	20 A	1	0.00	0.00					1	20 A	BLUE LIGHT	8
9	EXISTING LOAD	20 A	1			0.00	0.00			1	20 A	UPSTAIRS RECEPTS	10
11	BLUE LIGHTS	20 A	1					0.00	0.00	1	20 A	EXISTING LOAD	12
13	TENT DOOR SECURITY LAMP	20 A	2	0.00	0.00					2	20 A	EXISTING LOAD	14
15	--	--	--			0.00	0.00			--	--	--	16
17	WATER HEATER	20 A	2					0.00	0.00	1	20 A	EXISTING LOAD	18
19	--	--	--	0.00	0.00					1	20 A	EXISTING LOAD	20
21	OFC RECEPTS	20 A	1			0.00	0.00			2	20 A	EXISTING LOAD	22
23	OFC RECEPTS	20 A	1					0.00	0.00	--	--	--	24
25	SPARE	50 A	2	0.00	0.00					2	30 A	CONCESSION TENT	26
27	--	--	--			0.00	0.00			--	--	--	28
29	EXISTING LOAD	20 A	1					0.00	0.00	2	30 A	EXISTING LOAD	30
31	SPACE	--	1	--	0.00					--	--	--	32
33	EXISTING LOAD	20 A	1			0.00	0.00			2	30 A	EXISTING LOAD	34
35	**STORAGE LIGHTS**	20 A	1					0.96	0.00	--	--	--	36
37	S/W	20 A	1	0.00	0.00					1	20 A	EXISTING LOAD	38
39	OUTSIDE LIGHTS	20 A	1			0.00	0.00			1	20 A	EXISTING LOAD	40
		Lights Load:		0.00 kVA		0.00 kVA		0.96 kVA					
		Lights Amps:		0 A		0 A		8 A					

Legend:

Panel Totals

New Lights Conn. Load:	0.96 kVA
New Lights Conn.:	3 A

Notes:

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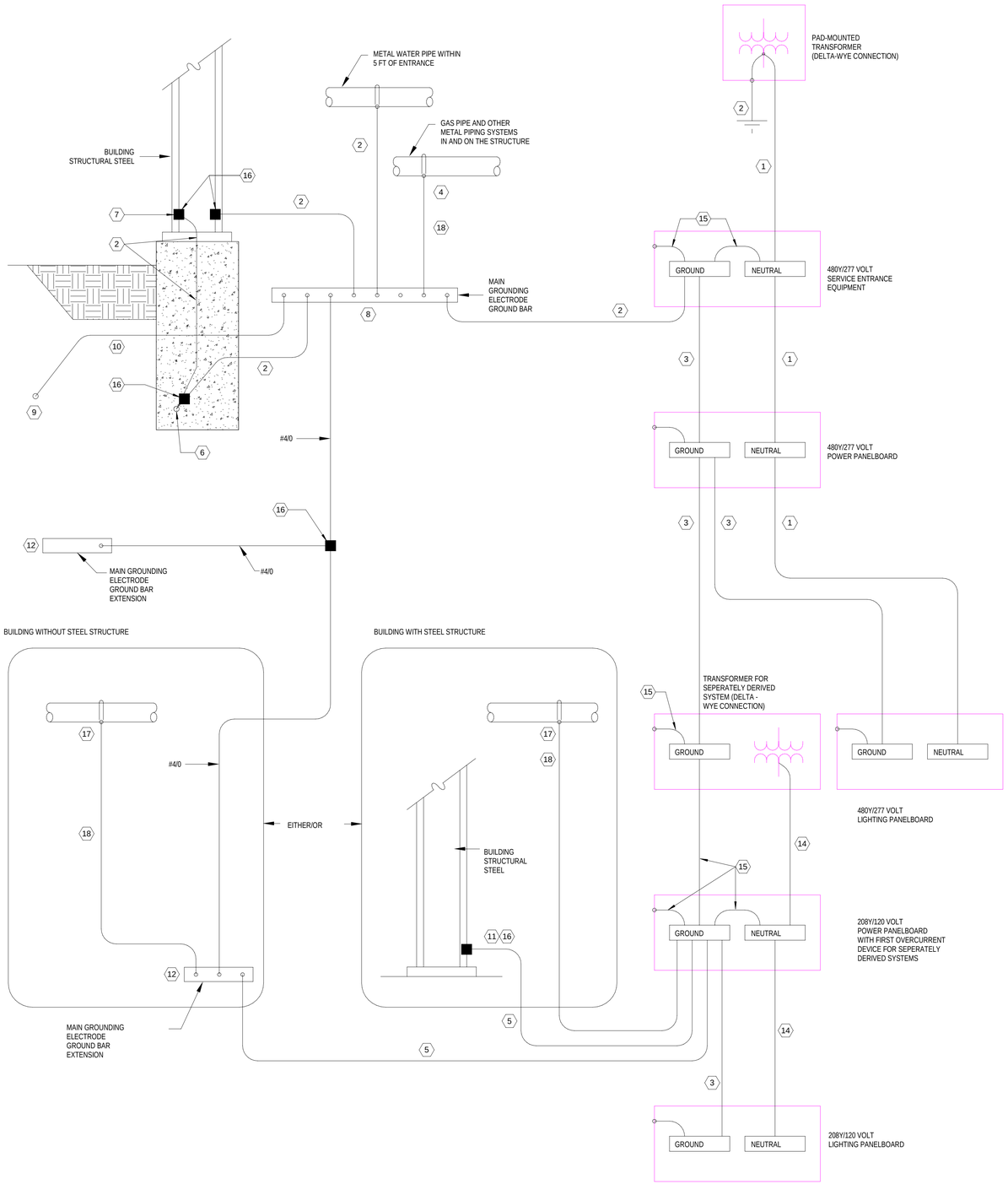
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KEYED NOTES

1. INSTALL GROUNDED (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDED CONDUCTOR.
2. INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN 4 AWG.
3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER, IF APPLICABLE.
5. INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
6. INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

   BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 4 AWG.

   BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

TOTAL LENGTH	MINIMUM REBAR SIZE
112 FT	1 3/8" (#11 BAR)
150 FT	1" (#8 BAR)
192 FT	3/4" (#6 BAR)
223 FT	5/8" (#5 BAR)
268 FT	1/2" (#4 BAR)

7. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTORS THAT MEET IEEE 837 REQUIREMENTS OR USE EXOTHERMIC WELDS.
8. INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. LIGHTNING PROTECTION GROUNDING COUNTERPOISE - 4/0 AWG COPPER.
10. BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4/0 AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD.
11. USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVERCURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN 50 FEET OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
12. WHERE EVER APPLICABLE IF THE BUILDING STRUCTURE IS NOT STRUCTURAL STEEL, INSTALL "MAIN GROUNDING ELECTRODE GROUND BAR EXTENSIONS" AT AN ACCESSIBLE AND VISIBLE LOCATION ADJACENT TO SEPARATELY DERIVED SYSTEMS THAT ARE MORE THAN 50 FEET FROM THE MAIN GROUNDING ELECTRODE GROUND BAR".
13. INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
14. INSTALL GROUNDED (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
15. INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
16. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
17. BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
18. INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR.

GENERAL NOTES

1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
5. BOND HOT AND COLD WATER PIPING SYSTEMS.

1 E7.1 GROUNDING SYSTEM DETAIL

No Scale

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