

ADDENDUM NO. 3

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**St. Louis Veteran's Home
Interior Renovations, C-Wing Updates
St. Louis, MO
PROJECT No.: U2607-01**

Bid Opening Date is: 1:30 PM, Tuesday, September 8th, 2026 (Changed)

Bidders are hereby informed that the Construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 004113 – BID FORM

In Part 4.0 the attached Bid Form shows the correct working days to 180 working days from the Notice of Intent to Award.

2. Section 00116 – INVITATION FOR BID

a. REPLACE Section 3.0B as Follows:

B. Until: 1:30 PM, September 8th, 2026

3. Section 21 13 13 – WET-PIPE SPRINKLER SYSTEMS

b. ADD Section 1.05F as Follows:

c. Deficiency Documentation: Provide a list and/or drawings of any discovered existing deficiencies prior to any new construction being performed. Description shall include reference to the portion of the standard to which the deficiency is non-compliant and a proposed recommended solution to correct the deficiency.

DRAWING CHANGES:

a. ADD Electrical Drawings for Bidder Review.

a. These drawings will also include the changes stated below.

b. REPLACE description of Alternate 1, on sheet P101, for plumbing scope of work as stated below:

a. All Restrooms: Complete coverage of exposed pipes and TMV that are not covered by ADA Trap covers. The supply piping is hard drawn and may be covered with insulation and wrapping/cover. TMV may be covered similarly to an IN-LINE valve. Preference would be to cover with PVC ADA Trap wrap covering, ADA Trap wrap kits may not cover hard drawn piping. ADA Trap wrap for supply pipe may be cut and pieced together to protect against possible personal injury. Refer to Sheets P102 thru P105.

- c. REPLACE description of Electrical Sheet notes, on sheet E101, E201, and E301, for electrical scope of work as stated below:
 - a. Alternate 1: contractor shall include in electrical bid the following: testing each receptacle and verifying that each is fully functional. check each receptacle for correct polarity, ground continuity, secure mounting, free of visible damage, proper wiring and terminations. verify that each GFCI receptacle trip is functioning properly.
 - b. After completion of testing contractor shall provide a list to the owner and architect of all discovered existing deficiencies, prior to any new construction being performed. the description shall include reference to the portion of the standard to which the deficiency is non-compliant and the proposed recommended solution to correct the deficiency.

GENERAL COMMENTS:

- 1. Tempering Mixing Valve (TMV) will not be added. There is an existing hot water return system in place which should be set at an appropriate temperature.

ATTACHMENTS:

- 1. Section 000116 – Invitation for Bid
- 2. Section 004113 – Bid Form (5 Pages)
- 3. Section 21 13 13 WET-PIPE SPRINKLER SYSTEM
- 4. Electrical Drawings – E000, E101, E201, E301, E501
- 5. P101 Plumbing Overall Floor Plan

Monday, August 31, 2026

END ADDENDUM NO. 3

SECTION 001116 - INVITATION FOR BID

Addendum 3

1.0 OWNER:

- A. The State of Missouri
Office of Administration,
Division of Facilities Management, Design and Construction
Jefferson City, Missouri

2.0 PROJECT TITLE AND NUMBER:

- A. Interior Renovations, C Wing Updates
St. Louis Veterans Home
St Louis, Missouri
Project No.: U2607-01

3.0 BIDS WILL BE RECEIVED:

- A. Until: 1:30 PM, September 8th, 2026
- B. **Only electronic bids sent to FMDCBids@oa.mo.gov shall be accepted:** (See Instructions to Bidders for further detail)

4.0 DESCRIPTION:

- A. Scope: The project consists of correct repairs to selective areas throughout C-Wing for the Missouri Veterans Home facility.
- B. MBE/WBE/SDVE Goals: MBE 0%, WBE 0%, and SDVE 3%. **NOTE: Only MBE/WBE firms certified by the State of Missouri Office of Equal Opportunity as of the date of bid opening, or SDVE(s) meeting the requirements of Section 34.074, RSMo and 1 CSR 30-5.010, can be used to satisfy the MBE/WBE/SDVE participation goals for this project.**

5.0 PRE-BID MEETING:

- A. Place/Time: 10am, St. Louis Veterans Home Chapel, August 11th 2026, at 10600 Lewis and Clark Boulevard, St Louis, MO 63136
- B. Access to State of Missouri property requires presentation of a photo ID by all persons.

6.0 HOW TO GET PLANS & SPECIFICATIONS:

- A. View Only Electronic bid sets are available at no cost or paper bid sets for a **deposit of \$100.00** from American Document Solutions (ADS). MAKE CHECKS PAYABLE TO: American Document Solutions. Mail to: American Document Solutions, 1400 Forum Blvd., Suite 7A, Columbia, Missouri 65203. Phone 573-446-7768, Fax 573-355-5433, <https://www.adsplanroom.net>. NOTE: Prime contractors will be allowed a maximum of two bid sets at the deposit rate shown above. Other requesters will be allowed only one bid set at this rate. Additional bid sets or parts thereof may be obtained by any bidder at the cost of printing and shipping by request to American Document Solutions at the address shown above. Bidder must secure at least one bid set to become a planholder.
- B. **Refunds: Return plans and specifications in unmarked condition within 15 working days of bid opening to American Document Solutions, 1400 Forum Blvd., Suite 7A, Columbia, Missouri 65203. Phone 573-446-7768, Fax 573-355-5433. Deposits for plans not returned within 15 working days shall be forfeited.**
- C. Information for upcoming bids, including downloadable plans, specifications, Invitation for Bid, bid tabulation, award, addenda, and access to the ADS planholders list, is available on the Division of Facilities Management, Design and Construction's web site: <https://oa.mo.gov/facilities/bid-opportunities/bid-listing-electronic-plans>.

7.0 POINT OF CONTACT:

- A. Project Manager: Joseph "Vance" Jisa, (573) 690-7120, email: joseph.jisa@oa.mo.gov

8.0 GENERAL INFORMATION:

- A. The State reserves the right to reject any and all bids and to waive all informalities in bids. **No bid may be withdrawn for a period of 20 working days** subsequent to the specified bid opening time. The contractor shall pay not less than the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed, as determined by the Missouri Department of Labor and Industrial Relations and as set out in the detailed plans and specifications.
- B. Bid results will be available at <https://oa.mo.gov/facilities/bid-opportunities/bid-listing-electronic-plans> after it is verified that at least one bid is awardable and affordable.

All bid documents shall be emailed to FMDCBids@oa.mo.gov

SECTION 004113 - BID FORM

1.0 BID

A. From: _____
(Bidder's Company Name)

☐ Sole Proprietorship/General Partnership ☐ LLC ☐ Limited Partnership ☐ Corporation ☐ Joint Venture

Address: _____

City, State, Zip _____

Phone: _____ Email: : _____

Federal ID Number: _____ Missouri Business Charter Number: _____

Contact Name: _____ Contact email: _____

herein after called the "**Bidder**".

B. To: Director, Division of Facilities Management, Design and Construction
Room 730, Harry S Truman State Office Building
301 West High Street
Jefferson City, Missouri 65101

herein after called the "**Owner**."

C. For: Interior Renovations, C-Wing Updates
St. Louis Veterans Home,
St. Louis, Missouri

D. Project Number: U2607-01
hereinafter called the "**Work**."

E. Documents: The undersigned, having examined and being familiar with the local conditions affecting the work and with the complete set of contract documents, including the Drawings, the Invitation For Bid, Instructions To Bidders, Statement of Bidders Qualifications, General Conditions, Supplement to General Conditions, and the technical specifications, including: addenda number _____ through _____ hereby proposes to perform the Work for the following:

F. Bid Amount: _____
_____ Dollars (\$ _____)

H. Alternates: Alternate No. 1- will include series of items throughout the entire C-Wing prepared by Missouri Veteran Home Staff. These items will be located and noted within the drawings and specifications mentioned below.

- 1) Shower floors at Patient Rooms noted in Contract Documents.
- 2) These rooms are the remaining rooms not included within the Base Bid rooms.
- 3) Test and repair all outlets, lights, and circuits. All circuits to be labeled to match

corresponding breaker location.

4) Ensure Access Control is fully operational.

5) Ensure Wander Guard system is fully operational.

6) Test and Repair PA System to fully operational status.

7) Adjust Water pressure as needed.

8) Verify insulation protective covers at lavatories at all restrooms and shower rooms within C Wing.

9) Relocate Paper Towel Dispensers to appropriate ADA mounting heights and clear opening from any obstructions.

10) Fix associated sprinklers throughout.

11) Fix flooring in associated rooms located within Contract Documents.

_____ Dollars (\$_____)

Alternate No. 2- will include a series of items throughout the entire C-Wing prepared by Missouri Veteran Home Staff. These items will be located and noted within the drawings and specifications mentioned below.

1) Replace and correct any nonfunctioning door hardware.

2) Replace door sweep on double doors within Corridor 178.

3) Piping Insulation to be continuous through hangers.

_____ Dollars (\$_____)

2.0 MBE/WBE/SDVE PERCENTAGE OF PARTICIPATION PROJECT GOALS

- A. This project's specific goals are: **MBE 0%, WBE 0%, and SDVE 3%**. NOTE: Only MBE/WBE firms certified by the State of Missouri Office of Equal Opportunity, and SDVE(s) meeting the requirements of Section 34.074, RSMo, and 1 CSR 30-5.010, as of the date of bid opening can be used to satisfy the MBE/WBE/SDVE participation goals for this project.

3.0 BID BOND

- A. Accompanying the bid is: ____ 5% Bid Bond or ____ Cashier's Check/Bank Draft for 5% of base bid that is payable without condition to the Division of Facilities Management, Design and Construction, State of Missouri, as per Article 5 of "Instructions To Bidders".

4.0 CONTRACT COMPLETION TIME AND LIQUIDATED DAMAGES

- A. The Bidder agrees to complete the work within 150 working days from the date the Notice of Intent to Award is issued as modified by additional days added by the Owner's acceptance of alternates, if applicable. This includes ten (10) working days for document mailing and processing. The Bidder further agrees to pay to, or allow the State as liquidated damages the sum of \$1,000 for each working day thereafter that the entire work is not substantially complete.

5.0 ATTACHMENTS TO BID

004337	MBE/WBE/SDVE Compliance Form
004338	MBE/WBE/SDVE Joint Venture Form
004339	MBE/WBE/SDVE Waiver Form
004340	SDVE Business Form
004541	Affidavit of Work Authorization
004545	Anti-Discrimination Against Israel Act Certification form

6.0 BIDDER'S CERTIFICATIONS

By signing and submitting this bid form, the Bidder certifies as follows:

A. No Undisclosed Interests or Associations, Collusion, or Solicitation of Other Bidders

1. This bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with any agreement or rules of any group, association or corporation.
2. The Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham proposal.
3. The Bidder has not solicited or induced any person, firm or corporation to refrain from submitting a bid.
4. The Bidder has not sought by collusion or otherwise to obtain any advantage over any other bidder or over the Owner.

B. Accuracy of Contract Documents

The Bidder has based this bid upon an official/complete set of contract documents, either obtained from the Owner or from a secondary source known to the Bidder to have provided a complete and accurate set of contract documents. If the Bidder received the contract documents from such a secondary source, any errors or omissions in the contract documents shall be interpreted and construed in favor of the Owner and against the Bidder. This bid is based upon the conditions within Article 1.2 of the General Conditions.

C. Non-Discrimination

The Bidder will not discriminate against any employee or applicant for employment because of race, creed, color or national origin in the performance of the Work.

D. Prevailing Wage

MISSOURI PREVAILING WAGE LAW (Sections 290.210 to 290.340, RSMo): The Contractor shall pay not less than the specified hourly rate of wages, as set out in the wage order attached to and made part of the specifications for work under this contract, to all workers performing work under the contract, in accordance with sections 290.210 to 290.340, RSMo. The Contractor shall forfeit a penalty to the Owner of one hundred dollars per day (or portion of a day) for each worker that is paid less than the specified rates for any work done under the contract by the Contractor or by any subcontractor, in accordance with section 290.250, RSMo.

DAVIS-BACON ACT: If this Project is financed in whole or in part from Federal funds (as indicated in the Instructions to Bidders or other bid or contract documents for this Project), then this contract shall be subject to all applicable federal labor statutes, rules and regulations, including provisions of the Davis-Bacon Act, 40 U.S.C. §3141 et seq., and the “Federal Labor Standards Provisions,” as further set forth in Section 007333 – Supplementary General Conditions for Federally Funded/Assisted Construction Projects, which is incorporated into the contract by reference. Where the Missouri Prevailing Wage Law and the Davis-Bacon Act require payment of different wages for work performed under this contract, the Contractor and all Subcontractors shall pay the greater of the wages required under either law, on a classification-by-classification basis.

E. Transient Employers

The Bidder will comply with the provisions of Sections 285.230-234, RSMo, regarding transient employers.

F. Federal Work Authorization Program

The Bidder has enrolled and is participating in, and will continue to participate in, a federal work authorization program in accordance with Sections 285.525 and 285.530, RSMo for the duration of any contract awarded because of this bid.

G. Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA)

1. If awarded contract for this project, the Bidder/Contractor shall only utilize personnel authorized to work in the United States in accordance with applicable federal, state and local laws. This includes, but is not limited to, the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA) and INA Section 274A.
2. If found to be in violation of this requirement or any applicable laws, and if the State of Missouri has reasonable cause to believe that the Contractor has knowingly employed individuals who are not eligible to work in the United States, the state shall have the right to cancel the contract immediately without penalty or recourse and suspend or debar the contractor from doing business with the state.
3. The Contractor agrees to cooperate fully with any audit or investigation from federal, state or local law enforcement agencies.

H. Anti-Discrimination Against Israel Act

1. If the awarded Contractor meets the definition of a company as defined in section 34.600, RSMo, and has ten or more employees, the Contractor shall not engage in a boycott of goods or services from the State of Israel; from companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or from persons or entities doing business in the State of Israel as defined in section 34.600, RSMo.
2. If, at any time during the life of the contract, Contractor meets the definition of a company as defined in section 34.600, RSMo, and the company’s employees increases to ten or more OR the contractor’s business status changes to become a company as defined in section 34.600, RSMo, and the company has ten or more employees, then the Contractor shall submit to the Division of Facilities Management, Design and Construction a completed Box C of the exhibit titled “Anti-Discrimination Against Israel Act Certification, and shall comply with the requirements of Box C.

7.0 SIGNATURES

FOR SOLE PROPRIETORSHIPS/GENERAL PARTNERSHIPS ONLY

Sole Proprietor’s Name (printed)

Name each general partner: _____

Today's Date: _____

I, _____, being the sole proprietor/general partner of (name of business)
_____ (and if the name of said business is other than my legal name, having filed a
Registration of Fictitious Name with the Missouri Secretary of State in order to allow me to use such name in
connection with my business, as provided by Section 417.200, RSMo, et seq.), do hereby submit this bid and agree to be
bound unto the State of Missouri as herein provided (if a general partnership, all partners must sign below).

Signature: _____

Signature: _____

Signature: _____

Signature: _____

FOR LIMITED LIABILITY COMPANIES ONLY

_____ today's date _____ State(s) of organization: _____
Manager's (or Managing Member's) Name (printed)

I, _____, being the Manager (or Managing Member) of (full legal name of limited
liability company from Articles of Organization) _____, and being duly
authorized to act as herein provided on behalf of said limited liability company, do hereby submit this bid on behalf of
said limited liability company and agree that said limited liability company shall be bound unto the State of Missouri as
herein provided.

Signature: _____

**FOR LIMITED PARTNERSHIPS/LIMITED LIABILITY PARTNERSHIPS/LIMITED LIABILITY LIMITED
PARTNERSHIPS ONLY**

_____ today's date _____ State(s) of organization: _____
General/Managing Partner's Name (printed)

I, _____, being the General Partner/Managing Partner of (full legal name of limited
partnership/limited liability partnership/limited liability limited partnership from partnership agreement or Certificate of
Limited Partnership) _____, and being duly authorized to act as herein provided on
behalf of said limited partnership/limited liability partnership/limited liability limited partnership, do hereby submit this
bid on behalf of said limited partnership/limited liability partnership/limited liability limited partnership and agree that
said limited partnership/limited liability partnership/limited liability limited partnership shall be bound unto the State of
Missouri as herein provided.

Signature: _____

FOR CORPORATIONS ONLY

President's Name (printed)

Secretary's Name (printed)

Today's date

State(s) of incorporation: _____

I, _____, being the (officer or title) _____ of (full legal name of corporation, from Articles of Incorporation) _____, and being duly authorized by the Board of Directors of said corporation to act as herein provided on behalf of said corporation, do hereby submit this bid on behalf of said corporation and agree that said corporation shall be bound unto the State of Missouri as herein provided.

Signature: _____
President

Attested by: _____
Corporate Secretary

The President should sign as the bidder. If the signator is other than the corporate president, the bidder must provide satisfactory evidence that the signator has the legal authority to bind the corporation.

FOR ASSOCIATIONS/JOINT VENTURES

If multiple business entities/individuals are bidding collectively as an association or joint venture, each business entity/individual bidding as part of the association or joint venture shall sign this bid in the above sections relevant to the form that such business entity or individual does business, and the bidder shall duplicate the necessary number of signature pages so that all members of the association or joint venture shall sign this bid. If a name is adopted for use by the association or joint venture, the association or joint venture shall file a Registration of Fictitious Name with the Missouri Secretary of State in order to use such name in connection with the association or joint venture, as provided by Section 417.200, RSMo, *et seq.*

SECTION 211313 - WET-PIPE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section Includes:
 - 1. Pipes, fittings, and specialties.
 - 2. Sprinklers.
- B. Standard-Pressure Sprinkler Piping: Wet-pipe sprinkler system piping designed to operate at working pressure of 175 psig maximum.

1.03 SYSTEM DESCRIPTIONS

- A. Wet-Pipe Sprinkler System: Automatic sprinklers are attached to piping containing water and that is connected to water supply through alarm valve. Water discharges immediately from sprinklers when they are opened. Sprinklers open when heat melts fusible link or destroys frangible device. Hose connections are included if indicated.

1.04 PERFORMANCE REQUIREMENTS

- A. Standard-Pressure Piping System Component: Listed for 175-psig minimum working pressure.
- B. Delegated Design: Design sprinkler system(s), including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- C. Sprinkler system design shall be approved by authorities having jurisdiction.
 - 1. Margin of Safety for Available Water Flow and Pressure: 10 percent, including losses through water-service piping, valves, and backflow preventers.
 - 2. Sprinkler Occupancy Hazard Classifications:
 - a. Building Service Areas: Ordinary Hazard, Group 1.
 - b. Electrical Equipment Rooms: Ordinary Hazard, Group 1.
 - c. General Storage Areas: Ordinary Hazard, Group 1.
 - d. Laundries: Ordinary Hazard, Group 1.
 - e. Mechanical Equipment Rooms: Ordinary Hazard, Group 1.
 - f. Office and Public Areas: Light Hazard.
 - g. Residential Living Areas: Light Hazard.
 - 3. Minimum Density for Automatic-Sprinkler Piping Design:



- a. Light-Hazard Occupancy: 0.10 gpm over 1500-sq. ft. area.
 - b. Ordinary-Hazard, Group 1 Occupancy: 0.15 gpm over 1500-sq. ft. area.
4. Retain one of first two subparagraphs below.
5. Maximum Protection Area per Sprinkler: Per UL listing.
6. Maximum Protection Area per Sprinkler:
 - a. Residential Areas: 400 sq. ft.
 - b. Office Spaces: 225 sq. ft.
 - c. Storage Areas: 130 sq. ft.
 - d. Mechanical Equipment Rooms: 130 sq. ft.
 - e. Electrical Equipment Rooms: 130 sq. ft.
 - f. Other Areas: According to NFPA 13 recommendations unless otherwise indicated.
 - g. Total Combined Hose-Stream Demand Requirement: According to NFPA 13 unless otherwise indicated:
 - h. Light-Hazard Occupancies: 100 gpm for 30 minutes.
 - i. Ordinary-Hazard Occupancies: 250 gpm for 60 to 90 minutes.
- D. Seismic Performance: Sprinkler piping shall withstand the effects of earthquake motions determined according to NFPA 13 and ASCE/SEI 7.

1.05 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. LEED Submittal:
 1. Product Data for Credit EQ 4.1: For solvent cements and adhesive primers, including printed statement of VOC content and chemical components.
- C. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
 1. Wiring Diagrams: For power, signal, and control wiring.
- D. Delegated-Design Submittal: For sprinkler systems indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 1. Coordinate first paragraph below with qualification requirements in Division 01 Section "Quality Requirements" and as supplemented in "Quality Assurance" Article.
- E. Qualification Data: For qualified Installer and professional engineer.
- F. **Deficiency Documentation: Provide a list and/or drawings of any discovered existing deficiencies prior to any new construction being performed. Description shall include reference to the portion of the standard to which the deficiency is non-compliant and a proposed recommended solution to correct the deficiency.**
- G. Approved Sprinkler Piping Drawings: Working plans, prepared according to NFPA 13, that have been approved by authorities having jurisdiction, including hydraulic calculations if applicable.

1. Sprinklers shall be referred to on drawings, submittals, and other documentation by the sprinkler identification or Model number as specifically published in the appropriate agency listing or approval. Trade names or other abbreviated designations shall not be allowed.
 - H. Welding certificates.
 - I. Fire-hydrant flow test report.
 - J. Field Test Reports and Certificates: Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping."
 - K. Field quality-control reports.
- 1.06 QUALITY ASSURANCE
- A. Installer Qualifications:
 1. Installer's responsibilities include designing, fabricating, and installing sprinkler systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of fire-hydrant flow test.
 - a. Engineering Responsibility: Preparation of working plans, calculations, and field test reports by a qualified professional engineer.
 - B. Welding Qualifications: Qualify procedures and operators according to ASME Boiler and Pressure Vessel Code.
 - C. All grooved couplings, fittings, valves, and specialties shall be the products of a single manufacturer. Grooving tools shall be of the same manufacturer as the grooved components.
 1. All castings used for couplings housings, fittings, or valve and specialty bodies shall be date stamped for quality assurance and traceability.
 - D. NFPA Standards: Sprinkler system equipment, specialties, accessories, installation, and testing shall comply with the following:
 1. NFPA 13, "Installation of Sprinkler Systems."
- 1.07 PROJECT CONDITIONS
- A. Interruption of Existing Sprinkler Service: Do not interrupt sprinkler service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary sprinkler service according to requirements indicated:
 1. Notify Construction Manager and Owner no fewer than two days in advance of proposed interruption of sprinkler service.
 2. Do not proceed with interruption of sprinkler service without Construction Manager's and Owner's written permission.

1.08 COORDINATION

- A. Coordinate layout and installation of sprinklers with other construction that penetrates ceilings, including light fixtures, HVAC equipment, and partition assemblies.

1.09 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Sprinkler Cabinets: Finished, wall-mounted, steel cabinet with hinged cover, and with space for minimum of six spare sprinklers plus sprinkler wrench. Include number of sprinklers required by NFPA 13 and sprinkler wrench. Include separate cabinet with sprinklers and wrench for each type of sprinkler used on Project.

PART 2 - PRODUCTS

2.01 PIPING MATERIALS

- A. Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, and fitting materials, and for joining methods for specific services, service locations, and pipe sizes.

2.02 STEEL PIPE AND FITTINGS

- A. Standard Weight, Black-Schedule 40 Steel Pipe: ASTM A 53/A 53M, Grade B. Pipe ends may be factory or field formed to match joining method.
- B. Schedule 10, Black-Steel Pipe: ASTM A 135 or ASTM A 795/A 795M, Schedule 10 in NPS 5 and smaller; and NFPA 13-specified wall thickness in NPS 6 to NPS 10, plain end.
- C. Black-Steel Pipe Nipples: ASTM A 733, made of ASTM A 53/A 53M, standard-weight, seamless steel pipe with threaded ends.
- D. Steel Couplings: ASTM A 865, threaded.
- E. Gray-Iron Threaded Fittings: ASME B16.4, Class 125, standard pattern.
- F. Malleable- or Ductile-Iron Unions: UL 860.
- G. Cast-Iron Flanges: ASME 16.1, Class 125.
- H. Steel Flanges and Flanged Fittings: ASME B16.5, Class 150.
- I. Steel Welding Fittings: ASTM A 234/A 234M and ASME B16.9.
- J. Grooved-Joint, Steel-Pipe Appurtenances:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Victaulic Company
 - b. Anvil International, Inc.

- c. Shurjoint Piping Products.
 - d. Tyco Fire & Building Products LP.
- 2. Pressure Rating: 175 psig minimum.
- 3. Grooved-End Fittings for Steel Piping: ASTM A 47/A 47M, malleable-iron casting or ASTM A 536, Grade 65-45-12 ductile-iron casting; with dimensions matching steel pipe. In applicable sizes, fittings shall be short pattern, with flow equal to standard pattern fittings.
 - a. Installation-Ready™ fittings for Schedule 10 grooved end steel piping in fire protection applications sizes NPS 1-¼ thru 2½. Fittings shall consist of a ductile iron housing with Installation-Ready™ ends, pre-lubricated Grade “E” EPDM Type ‘A’ gasket, and ASTM A449 electroplated steel bolts and nuts. UL listed for a working pressure of 300 psi and FM approved for working pressure 365 psi.
- 4. AWWA C606 and UL 213 cover couplings in subparagraph below in NPS 3/4 to at least NPS 12.
- 5. Grooved-End-Pipe Couplings for Steel Piping: AWWA C606 and UL 213, rigid pattern, unless otherwise indicated, for steel-pipe dimensions. Include ferrous housing sections, EPDM-rubber center leg gasket, with pipe stop to ensure proper groove engagement, alignment and pipe insertion depth, and ASTM A449 electroplated steel bolts and nuts.
 - a. Rigid Type: Housings cast with offsetting, angle-pattern, bolt pads to provide system rigidity and support and hanging in accordance with NFPA-13, fully installed at visual pad-to-pad offset contact. (Couplings that require exact gapping at specific torque ratings are not permitted.). Installation-Ready for complete installation without field disassembly. Basis of Design: Victaulic Style 108, 109, 009N, and 107N.
 - b. Flexible Type: For use in locations where vibration attenuation and stress relief are required. Basis of Design: Victaulic Installation Ready Style 75, 77, and 177N.

2.03 PIPING JOINING MATERIALS

- A. Welding Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
- B. Groove Joint Lubricants: Lubricant gasket in accordance with the manufacturer’s published instructions with lubricant approved for the gasket elastomer and fluid media.

2.04 LISTED FIRE-PROTECTION VALVES

- A. General Requirements:
 - 1. Valves shall be UL listed or FM approved.
 - 2. Minimum Pressure Rating for Standard-Pressure Piping: 175 psig.
 - 3. Minimum Pressure Rating for High-Pressure Piping: 250 psig.
- B. Ball Valves:
 - 1. Retain option in first subparagraph below if manufacturer's name and model number are indicated in schedules or plans on Drawings; delete option and insert manufacturer's name and model number if not included on Drawings.

2. Basis-of-Design Product: Subject to compliance with requirements, provide Victaulic Series 728 or comparable product or approved equal by one of the following:
 - a. Victaulic Company.
 - b. Anvil International, Inc.
 - c. NIBCO INC.
 - d. Tyco Fire & Building Products LP.
 - e. Watts Water Technologies, Inc.
3. Standard: UL 1091 except with ball instead of disc.
4. Valves NPS 1-1/2 and Smaller: Bronze or brass body with threaded or grooved ends.
5. Valves NPS 2 and NPS 2-1/2: Bronze body with threaded ends or ductile-iron body with grooved ends.
6. Valves NPS 3: Ductile-iron body with grooved ends.
7. Valves in first paragraph below are available in NPS 2 and larger.

C. Butterfly Valves:

1. Retain option in first subparagraph below if manufacturer's name and model number are indicated in schedules or plans on Drawings; delete option and insert manufacturer's name and model number if not included on Drawings.
 - a. Valves in first paragraph below are available in NPS 2 and larger.
2. Valves in first paragraph below are available in NPS 2 and smaller.
3. Valves in first paragraph below are available in NPS 2 and larger.

2.05 TRIM AND DRAIN VALVES

A. General Requirements:

1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
2. Pressure Rating: 175 psig minimum.

B. Angle Valves:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Fire Protection Products, Inc.
 - b. United Brass Works, Inc.

C. Ball Valves:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Victaulic Company.
 - b. Anvil International, Inc.
 - c. NIBCO INC.
 - d. Tyco Fire & Building Products LP.
 - e. Watts Water Technologies, Inc.

D. Globe Valves:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Fire Protection Products, Inc.
 - b. United Brass Works, Inc.

2.06 SPRINKLER SPECIALTY PIPE FITTINGS

A. Branch Outlet Fittings:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Victaulic Style 920/920N <Insert manufacture's name; product name or designation> or comparable product by one of the following
 - a. Victaulic Company.
 - b. Tyco Fire & Building Products LP
 - c. Anvil International, Inc.
 - d. National Fittings, Inc.
 - e. Shurjoint Piping Products.
2. Standard: UL 213.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Ductile-iron housing with EPDM seals and bolts and nuts.
5. Type: Mechanical-T and -cross fittings.
6. Configurations: Snap-on and strapless, ductile-iron housing with branch outlets.
7. Size: Of dimension to fit onto sprinkler main and with outlet connections as required to match connected branch piping.
8. Branch Outlets: Grooved, plain-end pipe, or threaded.
9. Fittings in first paragraph below are available in NPS 3/4 to NPS 2.

B. Sprinkler Inspector's Test Fittings:

1. Basis-of-design Product: Subject to compliance with requirements, provide Victaulic Series UTD or comparable product by one of the following:
 - a. Victaulic Company.
 - b. AGF Manufacturing Inc.
 - c. Triple R Specialty.
 - d. Tyco Fire & Building Products LP.
 - e. Viking Corporation.
2. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Cast-bronze or ductile-iron housing with sight glass.
5. Size: Same as connected piping.
6. Inlet and Outlet: Threaded or grooved.

C. Adjustable Drop Nipples:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. CECA, LLC.
 - b. Corcoran Piping System Co.
 - c. Merit Manufacturing; a division of Anvil International, Inc.
 2. Standard: UL 1474.
 3. Pressure Rating: 250 psig minimum.
 4. Body Material: Steel pipe with EPDM-rubber O-ring seals.
 5. Size: Same as connected piping.
 6. Length: Adjustable.
 7. Inlet and Outlet: Threaded.
- D. Flexible, Sprinkler Hose Fittings:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 2. Basis-of-Design Product: Subject to Compliance with requirements, provide Victaulic Vic-Flex AH2 or AH2-CC or comparable product by one of the following:
 - a. Victaulic Company.
 - b. FlexHead Industries, Inc.
 - c. SprinkFlex, a part of Atkore International.
 3. Standard: UL 1474.
 4. Type: Fully stainless-steel flexible hose for connection to sprinkler, and with one-piece open-gate "Series AB2" bracket for connection to ceiling grid. Bracket to allow for installation before ceiling tile is in place.
 5. Hose: UL approved Series AH2 or AH2-CC braided hose with a bend radius to 2" to allow for proper installation in confined spaces.
 6. Union joints shall be provided for ease of installation.
 7. Pressure Rating: 175 psig minimum.
 8. Size: Same as connected piping, for sprinkler.
 9. Mission Critical Facilities: To prevent water from entering sprinkler offsets and return bends located over mission critical equipment, a flexible dry sprinkler may be considered to ensure water only enters the piping during a fire event. Assembly shall be UL listed and/or FM approved. Basis of Design: Victaulic VS1 Flexible Dry Sprinkler.
 10. Exterior/Interior Elevation Differences: Where elevation changes are required and dry sprinklers are needed to prevent water from entering sprinkler offsets and return bends located in areas subject to freezing, a flexible dry sprinkler may be considered to ensure water only enters the piping during a fire event. Assembly shall be UL listed [FM approved]. Basis of Design: Victaulic VS1 Flexible Dry Sprinkler.
 11. Walk-in Cooler Applications: Flexible hose and dry sprinkler technology may be used in conjunction to eliminate to possibility of air interchange between warm and cold environments when providing dry sprinkler protection within walk-in coolers and similar applications. Basis of Design: VicFlex™ Series AB6 Bracket.

2.07 SPRINKLERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Reliable Automatic Sprinkler Co., Inc.
 - 2. Tyco Fire & Building Products LP.
 - 3. Victaulic Company.
 - 4. Viking Corporation.
- B. General Requirements:
 - 1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
 - 2. Pressure Rating for Residential Sprinklers: 175 psig maximum.
 - 3. Pressure Rating for Automatic Sprinklers: 175 psig minimum.
- C. Automatic Sprinklers with Heat-Responsive Element:
 - 1. Non-residential Applications: UL 199.
 - 2. Residential Applications: UL 1626.
 - 3. Characteristics: Nominal 1/2-inch orifice with Discharge Coefficient K of 5.6, and for "Ordinary" temperature classification rating unless otherwise indicated or required by application.
 - 4. Retain sprinkler finishes in first paragraph below that are indicated in "Sprinkler Schedule" Article.
- D. Sprinkler Finishes:
 - 1. Chrome plated.
 - 2. Bronze.
 - 3. Sprinkler Escutcheons: Materials, types, and finishes for the following sprinkler mounting applications. Escutcheons for concealed, flush, and recessed-type sprinklers are specified with sprinklers.
 - 4. Ceiling Mounting: Chrome-plated steel, one piece, flat.
 - 5. Sidewall Mounting: Chrome-plated steel, one piece, flat.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Perform fire-hydrant flow test according to NFPA 13 and NFPA 291. Use results for system design calculations required in "Quality Assurance" Article.
- B. Report test results promptly and in writing.

3.02 WATER-SUPPLY CONNECTIONS

- A. Connect sprinkler piping to building's interior water-distribution piping. Comply with requirements for interior piping in Division 22 Section "Domestic Water Piping."

3.03 PIPING INSTALLATION

- A. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated, as far as practical.
 - 1. Deviations from approved working plans for piping require written approval from authorities having jurisdiction. File written approval with Architect before deviating from approved working plans.
- B. Piping Standard: Comply with requirements for installation of sprinkler piping in NFPA 13.
- C. Install seismic restraints on piping. Comply with requirements for seismic-restraint device materials and installation in NFPA 13.
- D. Install a single air vent with a manual, automatic, or other approved connection near a high point of the system on each wet pipe system utilizing metallic pipe for air removal.
- E. Use listed fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.
- F. Install unions adjacent to each valve in pipes NPS 2 and smaller.
- G. Install "Inspector's Test Connections" in sprinkler system piping, complete with shutoff valve, and sized and located according to NFPA 13.
- H. Install sprinkler piping with drains for complete system drainage.
- I. Install hangers and supports for sprinkler system piping according to NFPA 13. Comply with requirements for hanger materials in NFPA 13.
- J. Fill sprinkler system piping with water.
- K. Install escutcheons for piping penetrations of walls, ceilings, and floors. Comply with requirements for escutcheons specified in Division 21 Section "Escutcheons for Fire-Suppression Piping."

3.04 JOINT CONSTRUCTION

- A. Install couplings, flanges, flanged fittings, unions, nipples, and transition and special fittings that have finish and pressure ratings same as or higher than system's pressure rating for aboveground applications unless otherwise indicated.
- B. Install unions adjacent to each valve in pipes NPS 2 and smaller.
- C. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
- D. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.

- E. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
 - 1. Apply appropriate tape or thread compound to external pipe threads.
 - 2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged.
- F. Welded Joints: Construct joints according to AWS D10.12M/D10.12, using qualified processes and welding operators according to "Quality Assurance" Article.
 - 1. Shop weld pipe joints where welded piping is indicated.
- G. Steel-Piping, Cut-Grooved Joints: Cut square-edge groove in end of pipe according to AWWA C606 in accordance with the manufacturer's latest published instructions. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings according to AWWA C606 for steel-pipe joints. Grooved coupling manufacturer's factory trained field representative shall provide on-site training for contractor's field personnel in the proper use of grooving tools, application of groove, and installation of grooved piping products. The factory trained representative shall periodically visit the jobsite to ensure best practices in grooved product installation are being followed. Contractor shall remove and replace any improperly installed products
- H. Steel-Piping, Roll-Grooved Joints: Roll rounded-edge groove in end of pipe according to AWWA C606 in accordance with the manufacturer's latest published instructions. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings according to AWWA C606 for steel-pipe grooved joints. Grooved coupling manufacturer's factory trained field representative shall provide on-site training for contractor's field personnel in the proper use of grooving tools, application of groove, and installation of grooved piping products. The factory trained representative shall periodically visit the jobsite to ensure best practices in grooved product installation are being followed. Contractor shall remove and replace any improperly installed products.

3.05 SPRINKLER INSTALLATION

- A. Install sprinklers in suspended ceilings in center of narrow dimension of acoustical ceiling panels.
- B. Install sprinklers into flexible, sprinkler hose fittings and install hose into bracket on ceiling grid.
- C. Do not install sprinklers that have been dropped, damaged, show a visible loss of fluid, or a cracked bulb.
- D. The sprinkler bulb protector shall be removable by hand, without tools or devices that may damage the bulb.

3.06 IDENTIFICATION

- A. Install labeling and pipe markers on equipment and piping according to requirements in NFPA 13.

- B. Identify system components, wiring, cabling, and terminals.

3.07 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections:
 - 1. Leak Test: After installation, charge systems and test for leaks. Repair leaks and retest until no leaks exist.
 - 2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - 3. Flush, test, and inspect sprinkler systems according to NFPA 13, "Systems Acceptance" Chapter.
 - 4. Energize circuits to electrical equipment and devices.
 - 5. Coordinate with fire-alarm tests. Operate as required.
- C. Sprinkler piping system will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.08 CLEANING

- A. Clean dirt and debris from sprinklers.
- B. Remove and replace sprinklers with paint other than factory finish.

3.09 PIPING SCHEDULE

- A. Standard-pressure, wet-pipe sprinkler system, NPS 2 and smaller, shall be one of the following:
 - 1. Standard-weight Schedule 40, black-steel pipe with threaded ends; uncoated, gray-iron threaded fittings; and threaded joints.
 - 2. Standard-weight Schedule 40, black-steel pipe with roll-grooved ends; uncoated, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.
- B. Standard-pressure, wet-pipe sprinkler system, NPS 2-1/2 to NPS 4, shall be one of the following:
 - 1. Standard-weight Schedule 40, black-steel pipe with roll-grooved ends; uncoated, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.
 - 2. Retain "one of" option in first paragraph below to allow Contractor to select piping materials from those retained.
 - 3. Retain "one of" option in paragraph below to allow Contractor to select piping materials from those retained.

3.010 SPRINKLER SCHEDULE

- A. Use sprinkler types in subparagraphs below for the following applications:
1. Rooms without Ceilings: Upright sprinklers.
 2. Rooms with Suspended Ceilings: Recessed, and concealed sprinklers as indicated.
 3. Wall Mounting: Sidewall sprinklers.

END OF SECTION



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PROJECT # 162_26 MO01

SITE # 7356

FACILITY # 6517356071

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 06/26/2026

CAD DWG FILE:
DRAWN BY: BJM
CHECKED BY: BKM
DESIGNED BY: BJM

SHEET TITLE:
ELECTRICAL
LEGEND

SHEET NUMBER:

E000

38 OF 42 SHEETS
06/26/2026

ELECTRICAL SYMBOLS AND LEGEND

FLOOR	WALL	CEILING	RECEPTACLES / POWER	WALL	CEILING	LIGHTING	FLOOR	WALL	CEILING	SECURITY	RECESSED	SURFACE	GENERAL ELECTRICAL SYMBOLS
			SURFACE RACEWAY. REFER TO DRAWING NOTES AND/OR SPECIFICATIONS FOR TYPE. (DEVICES MOUNTED IN RACEWAY).			RECESSED MOUNTED TROFFER				3/4" SECURITY SYSTEM CONDUIT ONLY			DISCONNECT SWITCH, 30 AMP MINIMUM UNLESS NOTED OTHERWISE
			SIMPLEX RECEPTACLE			SURFACE MOUNTED TROFFER				1" SECURITY SYSTEM CONDUIT ONLY			FUSED DISCONNECT SWITCH, 30 AMP MINIMUM UNLESS NOTED OTHERWISE
			DUPLEX RECEPTACLE			SUSPENDED OR PENDANT MOUNTED LUMINAIRE				1 1/2" SECURITY SYSTEM CONDUIT ONLY			COMBINATION DISCONNECT SWITCH MOTOR STARTED
			QUADRUPLUX RECEPTACLE			STRIP OR TRACK LIGHT				2" SECURITY SYSTEM CONDUIT ONLY			ALARM CONTACT FOR DOOR OR WINDOW, COORDINATE ROUGH-IN WITH HARDWARE SUPPLIER
			ABOVE COUNTER RECEPTACLES. INSTALL ABOVE COUNTER.			SURFACE MOUNTED DOWNLIGHT				CARD READER ASSEMBLY. PROVIDE RACEWAY CONNECTIONS TO DOOR CONTACT, ELECTRIC HINGE OR STRIKE, MOTION DETECTOR AND REQUEST FOR EXIT DEVICE, AS REQUIRED. COORDINATE ROUGH-IN WITH HARDWARE SUPPLIER			TRANSFORMER
			GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES			PENDANT MOUNTED DOWNLIGHT				INTERCOM STATION, CEILING MOUNTED TO BE TWO WAY HANDS FREE STATION			RELAY OR EQUIPMENT CABINET AS INDICATED ON PLAN
			"WP" = GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES WITH EXTRA DUTY WEATHERPROOF WHILE-IN-USE COVER			DIRECTIONAL LUMINAIRE				MOTION DETECTION DEVICE. DEVICE TO BE DIRECTED AS RECOMMENDED BY SUPPLIER AND APPROVED BY OWNER			LIGHTING OR POWER PANEL BOARD
			CONTROLLED DUPLEX / QUADRUPLUX RECEPTACLE 'a' = CORRESPONDS TO CONTROL ZONE/SWITCH			EXIT SIGN; SHADED PORTION INDICATES ILLUMINATED FACE. DIRECTIONAL ARROWS AS INDICATED ON PLANS. CONFIRM WE INTEND TO PROVIDE HIGH AND LOW LEVEL EXIT SIGNS FOR THIS PROJECT.				SECURITY CCTV CAMERA WITH PAN, ZOOM AND TILT CAPABILITIES			MANUAL MOTOR STARTER WITH THERMAL OVERLOAD NUMBER OF POLES AS REQUIRED
			HALF CONTROLLED DUPLEX / QUADRUPLUX RECEPTACLE 'a' = CORRESPONDS TO CONTROL ZONE/SWITCH							SECURITY CCTV MONITOR			PUSH-BUTTON STATION. +42" UON
			EMERGENCY POWERED OUTLETS (DUPLEX / QUADRUPLUX)										
			SWITCHED RECEPTACLES										
			CLOCK RECEPTACLES										
			JUNCTION BOX										
			JUNCTION BOX SIZE AS REQUIRED FOR NUMBER OF WIRES OR RACEWAYS										
			SYSTEM FURNITURE POWER FEED, REFER TO DETAIL FOR RACEWAY AND BOX REQUIREMENTS										
			HEAVY DUTY RECEPTACLE. REFER TO HEAVY DUTY RECEPTACLE SCHEDULE, THIS SHEET										
			EMERGENCY POWERED HEAVY DUTY RECEPTACLE. REFER TO HEAVY DUTY RECEPTACLE SCHEDULE, THIS SHEET										
			POKE-THRU (PT) # = TYPE. REFER TO SCHEDULE FOR ADDITIONAL SPECIFICATION AND DESCRIPTION										
			FLOOR BOX (FB) # = TYPE. REFER TO SCHEDULE FOR ADDITIONAL SPECIFICATION AND DESCRIPTION										
NOTE: ALL OUTLETS ON WALLS ARE MOUNTED AT 18" AFF, UNLESS NOTED OTHERWISE													
WHERE NOTED:													
+XX" = DISTANCE ABOVE FINISHED FLOOR													
HEAVY DUTY RECEPTACLE SCHEDULE													
HEAVY DUTY RECEPTACLE DESCRIPTION SCHEDULE: (NUMBER OF WIRES INCLUDE GROUND) PROVIDE WITH MATCHING PLUG AND CORD AS REQUIRED FOR EQUIPMENT SERVED.													
TAG (NEMA TYPE)	RATING	DESCRIPTION											
L5-20R	125V, 10, 20A, 2P, 3W	NEMA L5-20R LOCKING RECEPTACLE											
L5-30R	125V, 10, 30A, 2P, 3W	NEMA L5-30R LOCKING RECEPTACLE											
5-30R	125V, 10, 30A, 2P, 3W	NEMA 5-30R RECEPTACLE											
5-50R	125V, 10, 50A, 2P, 3W	NEMA 5-50R RECEPTACLE											
14-20R	125/250V, 10, 20A, 3P, 4W	NEMA 14-20R RECEPTACLE											
14-30R	125/250V, 10, 30A, 3P, 4W	NEMA 14-30R RECEPTACLE											
L21-20R	125/250V, 30, 20A, 3P, 5W	NEMA L21-20R LOCKING RECEPTACLE											
L21-30R	125/250V, 30, 30A, 3P, 5W	NEMA L21-30R LOCKING RECEPTACLE											
6-20R	250V, 10, 20A, 2P, 3W	NEMA 6-20R RECEPTACLE											
6-30R	250V, 10, 30A, 2P, 3W	NEMA 6-30R RECEPTACLE											
6-50R	250V, 10, 50A, 2P, 3W	NEMA 6-50R RECEPTACLE											
15-20R	250V, 30, 20A, 3P, 4W	NEMA 15-20R RECEPTACLE											
15-30R	250V, 30, 30A, 3P, 4W	NEMA 15-30R RECEPTACLE											
15-50R	250V, 30, 50A, 3P, 4W	NEMA 15-50R RECEPTACLE											
L16-20R	480V, 30, 20A, 3P, 4W	NEMA L16-20R LOCKING RECEPTACLE											
L16-30R	480V, 30, 30A, 3P, 4W	NEMA L16-30R LOCKING RECEPTACLE											
			WALL	CEILING	SWITCHING								
					SWITCH, SUBSCRIPT INDICATES: X = NONE - SINGLE POLE X = 3 - THREE WAY X = A,B,C - OUTLET CONTROLLED X = 2 - DOUBLE POLE X = KP - KEY OPERATED WITH PILOT LIGHT X = P - PILOT LIGHT X = R - MOMENTARY RELAY ON/OFF								
					2-SINGLE POLE SWITCHES, UNDER COMMON PLATE, + 42" UON								
					3-SINGLE POLE SWITCHES, UNDER COMMON PLATE, + 42" UON								
					LOW VOLTAGE LIGHTING CONTROL. NUMBER IN ELONGATED HEXAGON INDICATES CONTROL IDENTIFICATION. REFER TO SEQUENCE OF OPERATIONS AND LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION								
					LOW VOLTAGE LIGHTING CONTROL. SUBSCRIPT INDICATES: X = D - DIMMER SWITCH X = S - SENSOR SWITCH X = T - TIMER SWITCH X = M - LOW VOLTAGE MASTER CONTROL SWITCH								
					DIMMER WITH INTEGRAL SWITCH, +42" UON. '600' INDICATES RATING IN WATTS								
					ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED								
					ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED								
					CORRIDOR TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED								
					SENSOR TYPE SUBSCRIPT INDICATES: X = DT - DUAL TECHNOLOGY X = H - HALLWAY X = HB - HIGH BAY X = IR - PASSIVE INFRARED X = US - ULTRASONIC								
					PHOTOSENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION								
					PHOTOSENSOR - CEILING MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION								
					PHOTOSENSOR - CEILING MOUNT WITH 360 VIEW								
FLOOR	WALL	CEILING	TELECOMMUNICATIONS										
						MULTI-OUTLET RACEWAY WITH PROVISIONS FOR COMMUNICATIONS RECEPTACLES MOUNTED ON 12" CENTER UNLESS OTHERWISE NOTED. NUMBER IN (X) PARENTHESIS INDICATES DISTANCE BETWEEN DEVICES							
						COMBINATION TELEPHONE DATA OUTLET. PROVIDE 1 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE							
						DATA OUTLET, PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE							
						TELEPHONE OUTLET, PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. 1" CONDUIT TO CLOSEST TERMINAL POINT WITHOUT INTERMEDIATE BOXES							
						SYSTEM FURNITURE COMBINATION TELEPHONE DATA FEED, REFER TO DETAILS FOR RACEWAY AND BOX REQUIREMENTS							
						WALL MOUNTED DATA DEVICES AT +48", UON							
FLOOR	WALL	CEILING	RACEWAYS AND WIRING										
						CONDUIT CONCEALED IN CEILING OR WALL SPACE							
						CONDUIT RUN EXPOSED							
						CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SPACE							
						EXISTING CONDUIT TO REMAIN							
						CONDUIT RISING UP FROM RUN							
						CONDUIT DROPPING DOWN FROM RUN							
						HOMERUN TO PANELBOARD, CABINET OR TERMINAL BACKBOARD AS INDICATED							



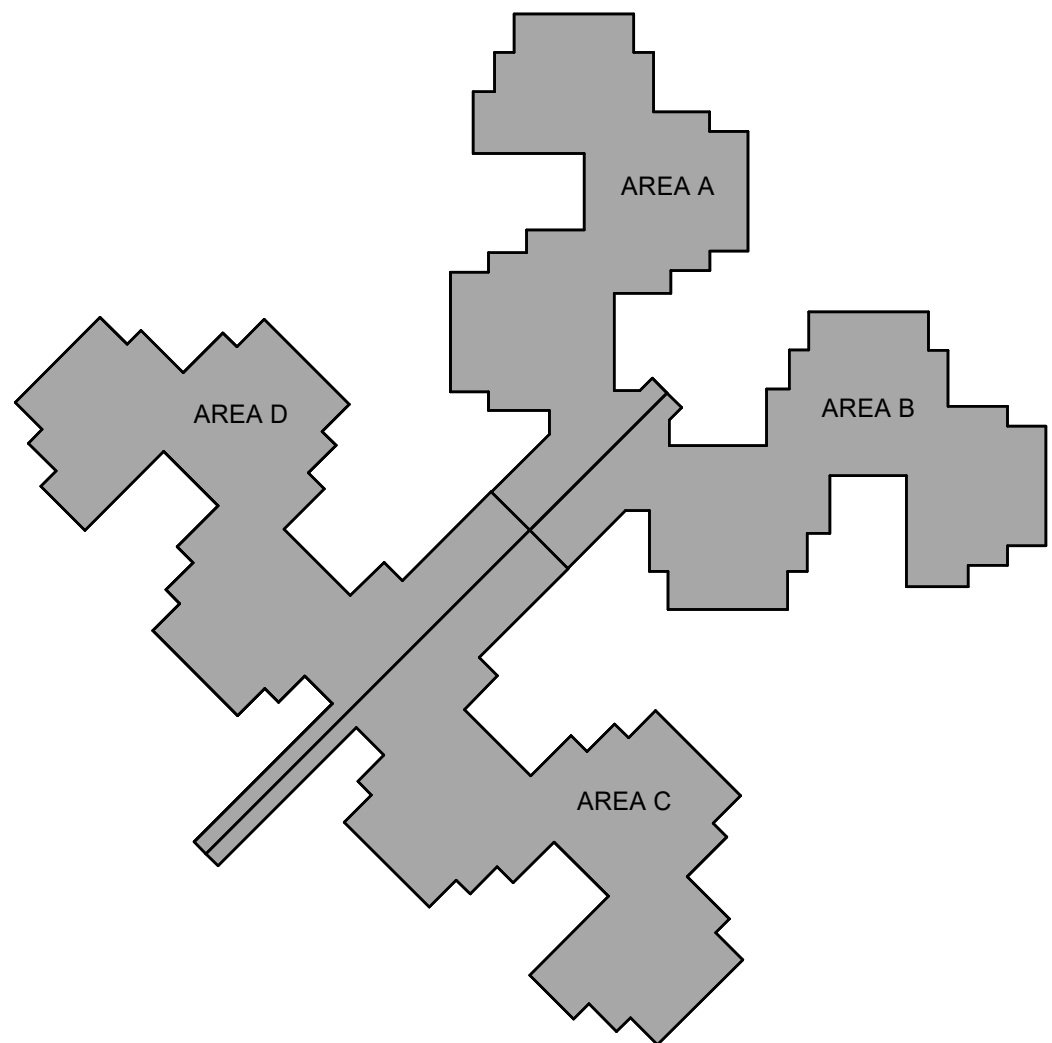
1 ELECTRICAL POWER - LEVEL 1 - OVERALL
1/16" = 1'-0"

ELECTRICAL SHEET NOTES

1. ALTERNATE 1: CONTRACTOR SHALL INCLUDE IN ELECTRICAL BID THE FOLLOWING: TESTING EACH RECEPTACLE AND VERIFYING THAT EACH IS FULLY FUNCTIONAL. CHECK EACH RECEPTACLE FOR CORRECT POLARITY, GROUND CONTINUITY, SECURE MOUNTING, FREE OF VISIBLE DAMAGE, PROPER WIRING AND TERMINATIONS. VERIFY THAT EACH GFCI RECEPTACLE TRIP IS FUNCTIONING PROPERLY.
2. AFTER COMPLETION OF TESTING CONTRACTOR SHALL PROVIDE A LIST TO THE OWNER AND ARCHITECT OF ALL DISCOVERED EXISTING DEFICIENCIES, PRIOR TO ANY NEW CONSTRUCTION BEING PERFORMED. THE DESCRIPTION SHALL INCLUDE REFERENCE TO THE PORTION OF THE STANDARD TO WHICH THE DEFICIENCY IS NON-COMPLIANT AND THE PROPOSED RECOMMENDED SOLUTION TO CORRECT THE DEFICIENCY.

SHEET KEYED NOTES:

- 1 ALTERNATE 1: TYPICAL RESIDENT/RESIDENT TOILET ROOMS HAVE THE FOLLOWING QUANTITY OF RECEPTACLES:
NO MORE THAN 8 NUMBER OF RECEPTACLES
NO MORE THAN 1 GFCI RECEPTACLES
- 2 ALTERNATE 1: TYPICAL INDIVIDUAL WING COMMON AREAS HAVE THE FOLLOWING QUANTITY OF RECEPTACLES:
NO MORE THAN 28 NUMBER OF RECEPTACLES
NO MORE THAN 5 GFCI RECEPTACLES
- 3 ALTERNATE 1: TYPICAL CENTRAL CORRIDOR COMMON AREAS HAVE THE FOLLOWING QUANTITY OF RECEPTACLES:
NO MORE THAN 100 NUMBER OF RECEPTACLES
NO MORE THAN 5 GFCI RECEPTACLES
- 4 BASE: PROVIDE FIRESTOPPING AT ALL EXISTING CONDUIT PENETRATIONS THROUGH THE SMOKE WALL WHERE NEW CONSTRUCTION OCCURS. REFER TO ARCHITECTURAL DRAWINGS FOR NEW SMOKE WALL CONSTRUCTION LOCATIONS. SEAL ALL PENETRATIONS WITH APPROVED FIRESTOP SYSTEMS TO MAINTAIN THE REQUIRED SMOKE AND FIRE RESISTANCE RATING OF THE WALL AS CONSTRUCTED. FIRESTOP MATERIALS AND INSTALLATION SHALL BE COMPATIBLE WITH THE CONDUIT TYPES AND SHALL COMPLY WITH APPLICABLE CODES AND LISTED ASSEMBLIES. VERIFY ALL EXISTING AND NEW PENETRATIONS ARE PROPERLY SEALED UPON COMPLETION.



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

08/28/2026



Brian K. Moellenhoff

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**DEPARTMENT OF MENTAL
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PROJECT # 162_26 MO01
MVH # FAI 29-042
SITE # 7356
FACILITY # 6517356071

REVISION: 1-ADDENDUM #3
DATE: 08/28/2026
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 06/26/2026

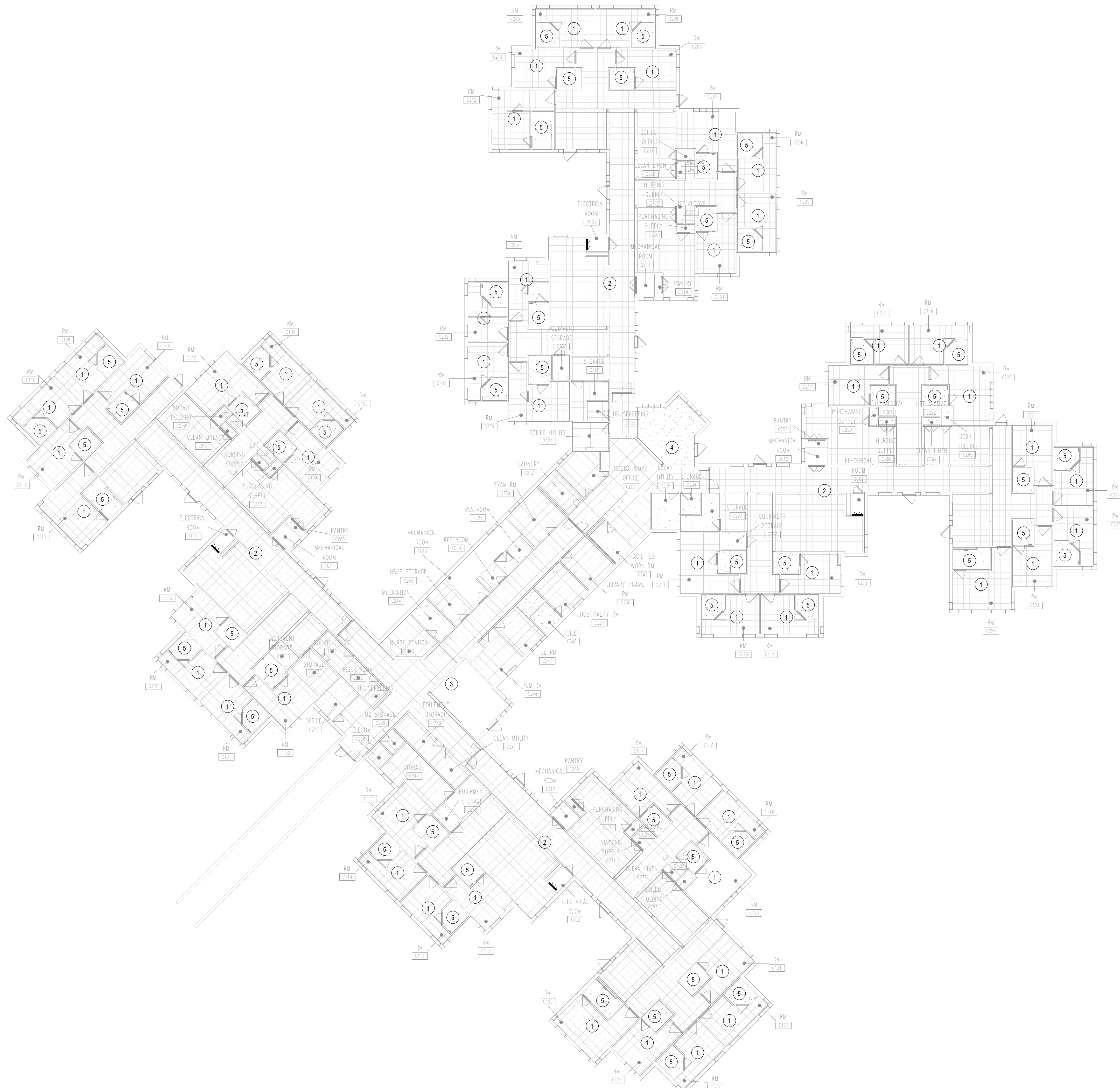
CAD DWG FILE: _____
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
**ELECTRICAL POWER
OVERALL FLOOR
PLAN**

SHEET NUMBER:

E101

39 OF 42 SHEETS
06/26/2026



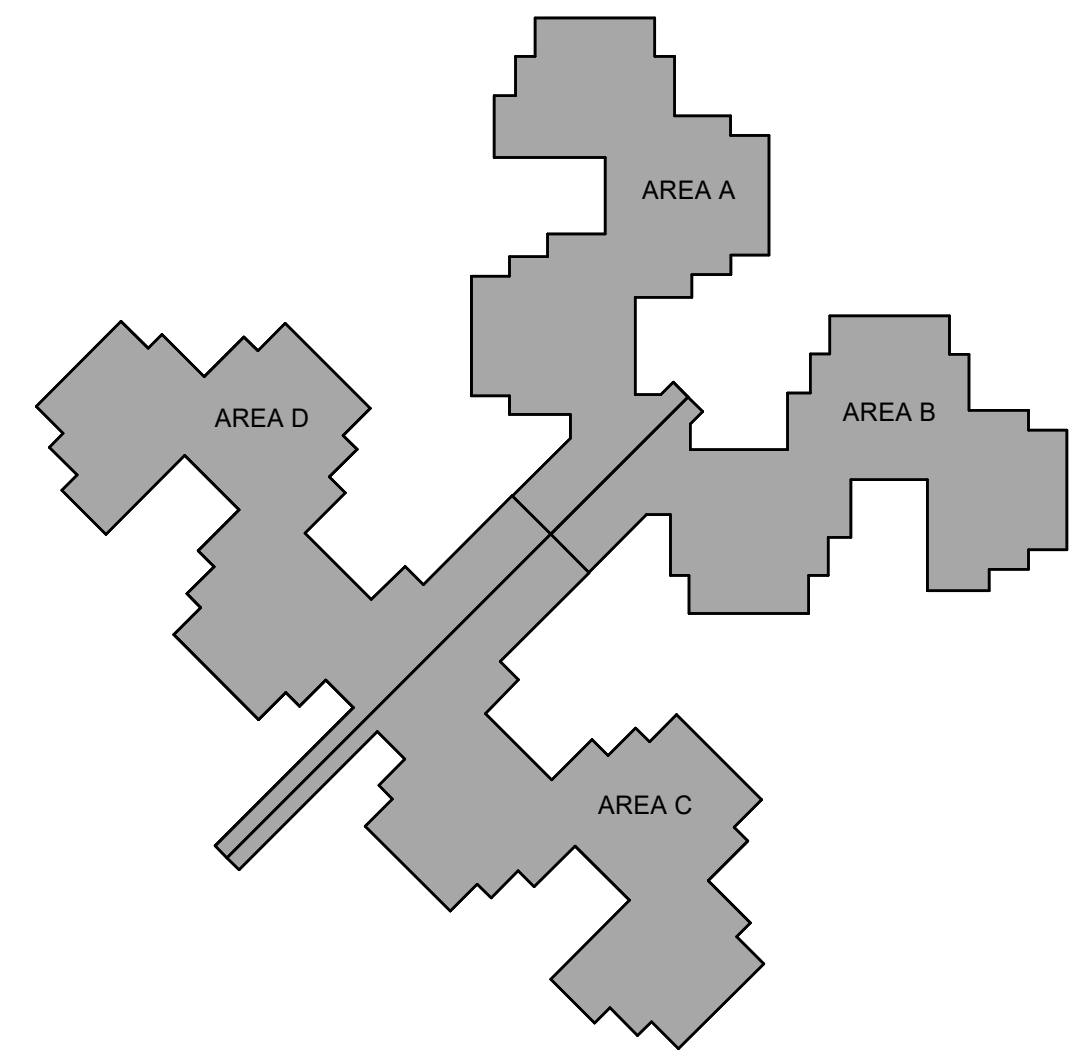
1 ELECTRICAL LIGHTING - LEVEL 1 - OVERALL
1/16" = 1'-0"

ELECTRICAL SHEET NOTES

1. ALTERNATE 1: CONTRACTOR SHALL INCLUDE IN ELECTRICAL BID THE FOLLOWING: TESTING EACH LIGHT FIXTURE AND VERIFYING THAT EACH IS FULLY FUNCTIONAL. CHECK EACH FIXTURE INSTALLATION FOR GROUND CONTINUITY, SECURE MOUNTING, FREE OF VISIBLE DAMAGE, PROPER WIRING AND TERMINATIONS.
2. AFTER COMPLETION OF TESTING CONTRACTOR SHALL PROVIDE A LIST TO THE OWNER AND ARCHITECT OF ALL DISCOVERED EXISTING DEFICIENCIES, PRIOR TO ANY NEW CONSTRUCTION BEING PERFORMED. THE DESCRIPTION SHALL INCLUDE REFERENCE TO THE PORTION OF THE STANDARD TO WHICH THE DEFICIENCY IS NON-COMPLIANT AND THE PROPOSED RECOMMENDED SOLUTION TO CORRECT THE DEFICIENCY.

SHEET KEYED NOTES:

- 1 ALTERNATE 1: TYPICAL RESIDENT/RESIDENT TOILET ROOMS HAVE THE FOLLOWING QUANTITY OF LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES:
NO MORE THAN 3 NUMBER OF LIGHT FIXTURES
NO MORE THAN 5 LIGHTING CONTROL DEVICES.
- 2 ALTERNATE 1: TYPICAL INDIVIDUAL WING COMMON AREAS HAVE THE FOLLOWING QUANTITY OF LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES:
NO MORE THAN 50 NUMBER OF LIGHT FIXTURES
NO MORE THAN 5 LIGHTING CONTROL DEVICES.
- 3 ALTERNATE 1: TYPICAL CENTRAL CORRIDOR COMMON AREAS HAVE THE FOLLOWING QUANTITY OF LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES:
NO MORE THAN 40 NUMBER OF LIGHT FIXTURES
NO MORE THAN 12 LIGHTING CONTROL DEVICES.
- 4 BASE: PROVIDE FIRESTOPPING AT ALL EXISTING CONDUIT PENETRATIONS THROUGH THE SMOKE WALL WHERE NEW CONSTRUCTION OCCURS. REFER TO ARCHITECTURAL DRAWINGS FOR NEW SMOKE WALL CONSTRUCTION LOCATIONS. SEAL ALL PENETRATIONS WITH APPROVED FIRESTOP SYSTEMS TO MAINTAIN THE REQUIRED SMOKE AND FIRE RESISTANCE RATING OF THE WALL AS CONSTRUCTED. FIRESTOP MATERIALS AND INSTALLATION SHALL BE COMPATIBLE WITH THE CONDUIT TYPES AND SHALL COMPLY WITH APPLICABLE CODES AND LISTED ASSEMBLIES. VERIFY ALL EXISTING AND NEW PENETRATIONS ARE PROPERLY SEALED UPON COMPLETION.
- 5 BASE: FOR LIGHTING CONTROL DEVICES IN RESIDENT TOILET ROOMS WHERE THE HEIGHT A.F.F. HAS BEEN CHANGED TO NON-STANDARD ADA HEIGHT DUE TO MODIFICATION OF FLOORS, DEVICES SHALL MOVED AS REQUIRED TO MEET ADA REQUIREMENTS AFTER RESIDENT TOILET ROOM FLOOR HAS BEEN ADJUSTED. COORDINATE PATCHING, REPAIR, AND PAINTING OF DRYWALL WITH CONSTRUCTION MANAGER.



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08/28/2026



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10600 LEWIS AND
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ST. LOUIS, MO 63136

PROJECT # 162_26 MO01
MVH # FAI 29-042
SITE # 7356
FACILITY # 6517356071

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CAD DWG FILE: _____
DRAWN BY: Author
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DESIGNED BY: Designer

SHEET TITLE:
ELECTRICAL
LIGHTING OVERALL
FLOOR PLAN

SHEET NUMBER:

E201

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06/26/2026



ELECTRICAL SHEET NOTES

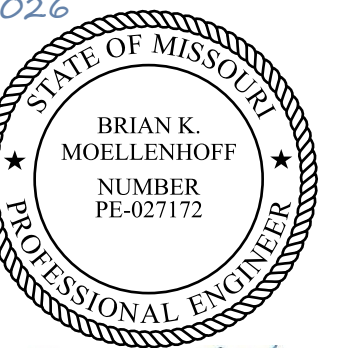
1. ALTERNATE 1: CONTRACTOR SHALL INCLUDE IN ELECTRICAL BID THE FOLLOWING: INVESTIGATE, REPAIR, AND RESTORE THE PUBLIC ADDRESS (PA) SYSTEM IN INDIVIDUAL WING COMMON AREAS AND CENTRAL CORRIDOR COMMON AREAS TO ENSURE PROPER OPERATION. WORK SHALL INCLUDE FIELD VERIFICATION OF SPEAKER CIRCUITS, WIRING CONTINUITY, AND DEVICE CONNECTIONS. SPEAKER WIRING MAY HAVE BEEN CUT OR DAMAGED; THE NUMBER AND LOCATIONS OF AFFECTED SPEAKERS ARE UNKNOWN. CONTRACTOR SHALL TRACE WIRING AS REQUIRED, AND IDENTIFY ALL ASSOCIATED PA DEVICES.
2. AFTER COMPLETION OF TESTING CONTRACTOR SHALL PROVIDE A LIST TO THE OWNER AND ARCHITECT OF ALL DISCOVERED EXISTING DEFICIENCIES, PRIOR TO ANY NEW CONSTRUCTION BEING PERFORMED. THE DESCRIPTION SHALL INCLUDE REFERENCE TO THE PORTION OF THE STANDARD TO WHICH THE DEFICIENCY IS NON-COMPLIANT AND THE PROPOSED RECOMMENDED SOLUTION TO CORRECT THE DEFICIENCY.

SHEET KEYED NOTES:

1. ALTERNATE 1: REPAIR AND RESTORE ACCESS CONTROL COMPONENTS AT THE DOOR TO ENSURE PROPER OPERATION. WORK SHALL INCLUDE VERIFICATION OF CARD READER FUNCTIONALITY, DOOR HARDWARE OPERATION, ELECTRIC LOCKING DEVICE PERFORMANCE, AND INTEGRATION WITH ACCESS CONTROL SYSTEM. ENSURE THE DOOR LOCKS AND UNLOCKS CORRECTLY IN RESPONSE TO CARD READER ACTIVATION. ANY DEFECTIVE WIRING, DEVICES, OR HARDWARE SHALL BE REPAIRED OR REPLACED AS NECESSARY TO PROVIDE A FULLY FUNCTIONAL AND CODE-COMPLIANT ACCESS-CONTROLLED DOOR. REFER TO DETAILS 1 AND 2 ON SHEET E501 FOR ADDITIONAL INFORMATION.
2. ALTERNATE 1: THE INDIVIDUAL WING COMMON AREAS AND CENTRAL CORRIDOR COMMON AREAS HAVE A TOTAL OF 70 PUBLIC ADDRESS SPEAKERS.
3. ALTERNATE 1: REPAIR AND RESTORE WANDER MANAGEMENT COMPONENTS AT THE DOOR TO ENSURE PROPER OPERATION. WORK SHALL INCLUDE VERIFICATION OF SYSTEM FUNCTIONALITY. ENSURE THE DEVICE OPERATES CORRECTLY IN RESPONSE TO WANDER MANAGEMENT DEVICE ENCROUCHMENT. ANY DEFECTIVE WIRING, DEVICES, OR HARDWARE SHALL BE REPAIRED OR REPLACED AS NECESSARY TO PROVIDE A FULLY FUNCTIONAL AND CODE-COMPLIANT SYSTEM. REFER TO DETAILS 3 AND 4 ON SHEET E501 FOR ADDITIONAL INFORMATION.
4. BASE: PROVIDE FIRESTOPPING AT ALL EXISTING CONDUIT PENETRATIONS THROUGH THE SMOKE WALL WHERE NEW CONSTRUCTION OCCURS. REFER TO ARCHITECTURAL DRAWINGS FOR NEW SMOKE WALL CONSTRUCTION LOCATIONS. SEAL ALL PENETRATIONS WITH APPROVED FIRESTOP SYSTEMS TO MAINTAIN THE REQUIRED SMOKE AND FIRE RESISTANCE RATING OF THE WALL AS CONSTRUCTED. FIRESTOP MATERIALS AND INSTALLATION SHALL BE COMPATIBLE WITH THE CONDUIT TYPES AND SHALL COMPLY WITH APPLICABLE CODES AND LISTED ASSEMBLIES. VERIFY ALL EXISTING AND NEW PENETRATIONS ARE PROPERLY SEALED UPON COMPLETION.

STATE OF MISSOURI
MICHAEL L. PARSON,
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08/28/2026



Brian K. Moellenhoff
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DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
ELECTRICAL
SYSTEMS OVERALL
FLOOR PLAN

SHEET NUMBER:

E301

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06/26/2026



1 DOOR E251 PHOTOGRAPHS
NOT TO SCALE



2 DOOR E104.3 PHOTOGRAPHS
NOT TO SCALE



3 DOOR E102 PHOTOGRAPHS
NOT TO SCALE



4 DOOR E104.1 PHOTOGRAPHS
NOT TO SCALE



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DRAWN BY: BJM
CHECKED BY: BKM
DESIGNED BY: BJM

SHEET TITLE:
ELECTRICAL
PHOTOS

SHEET NUMBER:

E501

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06/26/2026

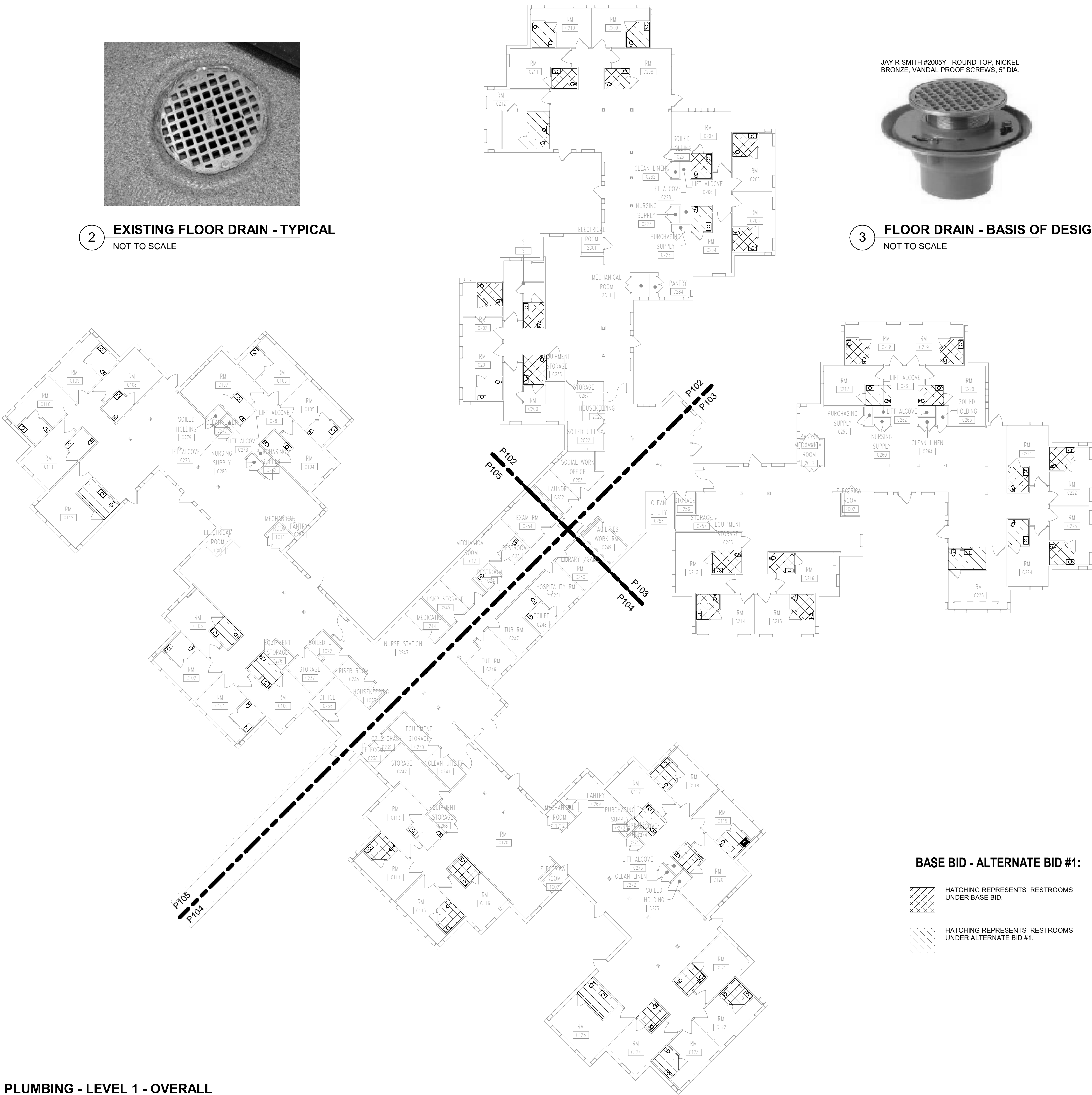


2 EXISTING FLOOR DRAIN - TYPICAL
NOT TO SCALE

JAY R SMITH #2005Y - ROUND TOP, NICKEL
BRONZE, VANDAL PROOF SCREWS, 5" DIA.



3 FLOOR DRAIN - BASIS OF DESIGN
NOT TO SCALE



PLUMBING SHEET NOTES

1. REFER TO ARCHITECTURAL PLANS FOR DETAILED LAYOUTS OF THE RESTROOMS.
2. COORDINATE WITH NEW FLOOR LEVELS WHEN INSTALLING NEW FD'S AND REINSTALLING W.C'S.
3. ENSURE ALL LAV'S, SHOWERS AND WATER CLOSETS MEET ADA HEIGHTS. ADJUST IF NEW FLOOR LEVEL PUTS THEM OUT OF TOLERANCE.
4. REFER TO SHEETS P102, P103, P104 AND P105 FOR NEW WORK FOR THIS PROJECT.

NEW WORK - BID BREAKDOWN:

BASE BID -

- INSTALL NEW FLOOR DRAINS IN RESTROOMS PER SHEETS P102 THRU P105 AS INDICATED. COORDINATE WITH ARCHITECTURAL SHEETS FOR DELINEATION OF BASE BID RESTROOMS AND ALTERNATE 1 RESTROOMS.
- REINSTALL STORED LAVATORIES WATER CLOSETS IN RESTROOMS INDICATED PER SHEETS P102 THRU P105 AFTER NEW FLOOR INSTALLED. ENSURE ALL FIXTURES ARE STILL AT ADA HEIGHT (BASE BID) AND ARE FULLY OPERATIONAL INCLUDING NO CROSS CONNECTIONS.

ALTERNATE 1 -

- INSTALL NEW FLOOR DRAINS IN RESTROOMS PER SHEETS P102 THRU P105 AS INDICATED. COORDINATE WITH ARCHITECTURAL SHEETS FOR DELINEATION OF BASE BID RESTROOMS AND ALTERNATE 1 RESTROOMS.
- REINSTALL STORED WATER CLOSETS IN RESTROOMS INDICATED PER SHEETS P102 THRU P105 AFTER NEW FLOOR IS INSTALLED. ENSURE ALL FIXTURES ARE FULLY OPERATIONAL INCLUDING NO CROSS CONNECTIONS.
- ALL RESTROOMS, COMPLETE COVERAGE OF EXPOSED PIPES AND TMV THAT ARE NOT COVERED BY ADA TRAP WRAP COVERS. THE SUPPLY PIPING IS HARD DRAWN AND MAY BE COVERED WITH INSULATION AND WRAPPING/COVER. TMV MAY BE COVERED SIMILAR TO AN IN-LINE VALVE. PREFERENCE WOULD BE TO COVER WITH PVC ADA TRAP WRAP COVERING. ADA TRAP WRAP KITS MAY NOT COVER HARD DRAWN PIPING. ADA TRAP WRAP FOR SUPPLY PIPE MAY BE CUT AND PIECED TOGETHER TO PROTECT AGAINST POSSIBLE PERSONAL INJURY. REFER TO SHEETS P102 THRU P105. ENSURE WATER PRESSURE IS GOOD TO ALL FIXTURES, ADJUST IF NECESSARY.

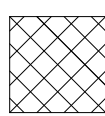
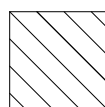
ALTERNATE 2 -

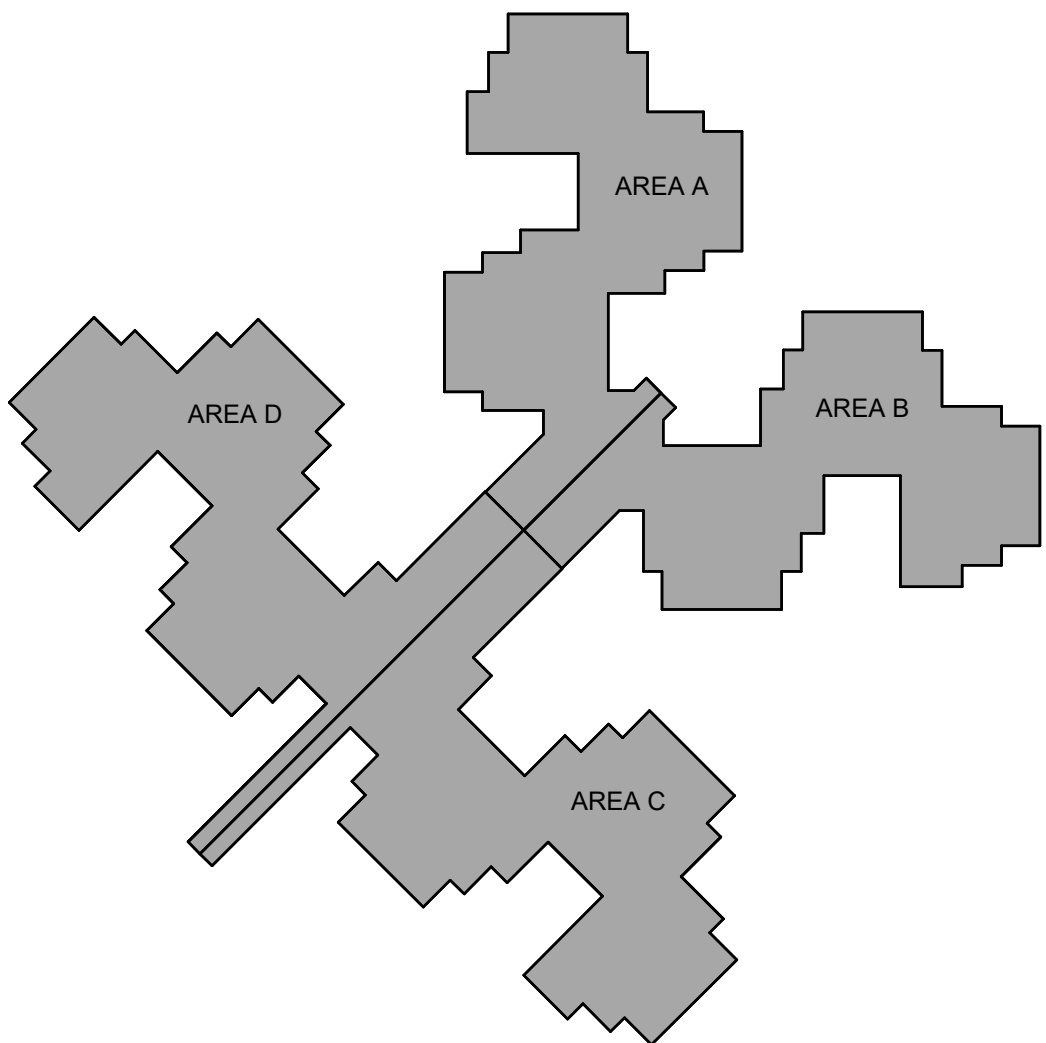
- COMPLETE ALL DOMESTIC WATER PIPING INSULATION THROUGHOUT C-WING INCLUDING AT PIPE HANGERS. SEAL AND COMPLETE ANY MISSING INSULATION. REFER TO SHEETS P102 THRU P105. FOLLOW ABOVE CEILING PROTOCOLS NOTED BELOW.

CEILING ACCESS PROTOCOLS:

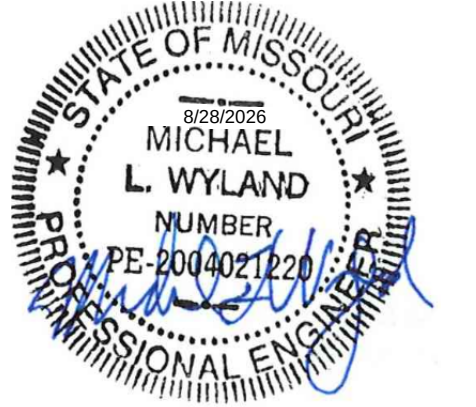
- WHEN VISUAL INSPECTION ONLY IS THE TASK, IT MAY REQUIRE THE OPENING OF CEILING TILES OR ACCESS PANELS OUTSIDE OF BARRIER. THE CEILING TILE OR ACCESS PANEL SHALL BE REPLACED IMMEDIATELY UPON COMPLETION OF THE INVESTIGATION AND WHEN UNATTENDED. THIS REQUIRES OPENING ONLY 1 CEILING TILE AT A TIME. FOLLOW FACILITY SPECIFIC GUIDELINES FOR OTHER ABOVE CEILING PROTOCOLS (e.g. BLEACHWATER SPRAYING OF CEILING TILES IN A 360-DEGREE FASHION IN AIR SPACE ABOVE, OR OTHER ABOVE CEILING ACCESS).
- CEILING ACCESS SHOULD NOT OCCUR IN AN OCCUPIED PATIENT ROOM UNLESS IT IS AN EMERGENCY (e.g. ACTIVE FLOODING).
- OBSERVE FOR DEBRIS (MORE THAN DUST) WHEN THE TILE IS LIFTED; IF NOTED, DISCONTINUE WORK, CONSULT IP. CLEANUP SITE. (e.g. HEPA VAC, ETC.). IF SHARPS OR ANY OTHER TYPE OF POTENTIALLY INFECTIOUS MATERIAL IS FOUND, CONTACT IP OR EH&S.
- SEMI CRITICAL SPACES SUCH AS OR, PROCEDURAL AREAS AND CORRIDORS WITHIN: CEILING ACCESS SHOULD BE DONE WITH USE OF HEPA CART OR BARRIERS.

BASE BID - ALTERNATE BID #1:

-  HATCHING REPRESENTS RESTROOMS UNDER BASE BID.
-  HATCHING REPRESENTS RESTROOMS UNDER ALTERNATE BID #1.



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DESIGNED BY: DSB

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PLUMBING
OVERALL FLOOR
PLAN

SHEET NUMBER:

P101

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06/26/2026