

DOCUMENT REVIEW/APPROVAL

Document: A-SOW-G-00019

Revision: 8

Title: Pre-Manufactured Modular Office, Conference and Restroom Buildings Statement of Work

DOCUMENT REVIEW/APPROVAL

Classification Reviewer:

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09/04/2024

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Document: A-SOW-G-00019 **Revision:** 8

Title: Pre-Manufactured Modular Office, Conference and Restroom Buildings Statement of Work

Document Type: SOW **Functional Classification:** GS

Description: The reason for this revision is to add a section on Surge Protection and Heavy Duty Disconnects requirements in accordance with SRNS Engineering Standard.

Amendments Incorporated:
N/A

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ECF Category: N/A

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Procurement Specification/Statement of Work (SOW)

Revision History Sheet

1. Specification/SOW No. A-SOW-G-00019		2. Revision No. 8	3. Page 4 of 29
4. Date	5. Revision No.	6. Paragraph No.	7. Description of Changes
	0	N/A	Issued for Use
April 22, 2019	1	3.1.2 B.2	Deleted reference to "non-combustible construction".
June 13, 2019	2	3.1.2 C.1	Revised statement number 1 and replaced with the following: "1. Provide mono slope trusses to create gable roofs for double wide units and transverse slope trusses for quad units and any units where the owner desires future additions to units. All slopes shall be arranged to drain stormwater away from entry locations."
June 13, 2019	2	Table of Content	Section "2.4 SRNS Documents" was not shown in the Table of Contents in previous versions. Added for clarity.
June 13, 2019	2	Table of Content	Removed page numbers of Attachments and adjusted total page count as required for document clarity.
March 11, 2021	3	2.2.2.5	Delete reference to Institute of Electrical and Electronics Engineers, Inc. (IEEE)
March 11, 2021	3	2.2.2.6	IBC Code reference date changed from 2012 to 2018.
March 11, 2021	3	2.2.2.9	Changed reference date from 2017 to 2020.
March 11, 2021	3	3.1.2.H.2	Added additional notes d, e, f, g and h.
March 11, 2021	3	3.1.2.L.1	Removed manufacturer to provide signage. Signage to be provided by SRNS and installed by trailer installer.
March 11, 2021	3	3.1.4.A.1	Changed power distribution from 120/240v to three phase 208/ 120V main service.
March 11, 2021	3	3.1.4.A.1.a.1)	Clarified that the disconnect would be shipped loose and mounted on site.
March 11, 2021	3	3.1.4.A.2	Changed distribution panels from 120/240v to three phase 208/ 120V distribution panels.
March 11, 2021	3	3.1.4.B.1. & 2.	Deleted section on Grounding.
March 11, 2021	3	3.1.4.5	Added: The maximum circuit size for tankless water heater shall be 3 phase, 30 amp.
March 11, 2021	3	3.1.4.D.6.a	Added: clarification for 10' of cable for ease of installation.
March 11, 2021	3	3.1.7.5	Removed reference to 240V single phase heat pumps and changed to 208V three phase heat pumps.
March 11, 2021	3	3.1.3.5.R	Added note for flashing above doors and windows.
March 11, 2021	3	3.1.8.A	Added clarification of plumbing connections to be supplied below the floor for connection by SRNS.
March 11, 2021	3	3.1.8.B	Added clarification of plumbing header connections to be supplied below the floor. The DWV below floor piping system will be supplied and assembled by SRNS.
March 11, 2021	3	3.1.8.B.1	Added Provide below floor DWV piping header on the building drawings.
March 11, 2021	3	3.1.8.C	Added clarification for submission of all piping, fittings, and support materials/components used in construction of the building.

1. Specification/SOW No. A-SOW-G-00019		2. Revision No. 8	3. Page 5 of 29
4. Date	5. Revision No.	6. Paragraph No.	7. Description of Changes
March 11, 2021	3	3.1.8. D	Added clarification for submission of product data for all plumbing fixtures and components.
March 11, 2021	3	3.1.12.5.b.5, 6 and 7	Added Urinals, Flush Valves and Faucets to requested plumbing data information to be provided.
March 11, 2021	3	3.2.1.2	Deleted "construction services".
March 11, 2021	3	3.2.1.3	Added clarification that final connection of utilities and skirting for each unit will be completed by SRNS.
March 11, 2021	3	3.7.2.7	Reference to 3.6.1.8 changed to correct reference of 3.6.1.9.
March 11, 2021	3	3.7.3.4	Reference to 3.6.1.8 changed to correct reference of 3.6.1.9.
March 29, 2021	4	Revision History	Dates added Revision History for clarification.
March 24, 2022	5	5.2.5.3	Updated Section 5.3 to Section 5.2.
March 24, 2022	5	1.1.4;1.1.5.7-1.1.5.12 & 5.2	Added additional sketches to Rev. 4 document. Updated Sketch numbers to 12 (from 6).
March 24, 2022	5	2.2.2.9.B & C	Added NFPA 90B, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems, 2021 & added latest SRS Adopted standard date.
March 24, 2022	5	3.1.3.5. R	Typo corrected from "meal" to "metal" flashing.
March 24, 2022	5	3.1.4. C.7	Note added about occupancy sensor being tied to lighting.
March 24, 2022	5	3.1.7.3	Added reference to NFPA 90B.
March 24, 2022	5	3.1.7.7. A	Note added about occupancy sensor being tied to exhaust fan.
March 24, 2022	5	3.1.7.7. B	Note added about thermostat lock covers.
March 24, 2022	5	3.1.12.3.B.1 & 3.1.12.3. D.7	Added occupancy sensor to list of electrical components.
March 24, 2022	5	3.1.4.A.1, a 3.1.4. A.2	Updated electrical connection options.
March 24, 2022	5	3.1.4. A.5	Tankless water heater note updated.
March 24, 2022	5	3.1.3.5.L.3 & 3.1.3.5. L.4	Added VCT flooring w/ Wax and detail about 4" covered rubber base.
April 20, 2023	6	1.1.6	Added note about the Post-Award Vendor meeting.
April 20, 2023	6	2.2.1.1.C	Added note to clarify that requirements from referenced codes are not overridden by reference to other codes and standards.
April 20, 2023	6	2.2.2.8	Added NFPA 10 to the list of required codes/standards in section 2.2.2.
April 20, 2023	6	2.2.2.13	Added CSA B137.5, 2020 to the Code/Standards list.
April 20, 2023	6	2.3.1.2	10 CFR 851.23 (a)(9) and (a)(13), Worker Safety and Health Program added to the Orders/Regulations section.
April 20, 2023	6	3.1.1.1. A	Note updated to clarify that the Architect / Engineer shall be a professionally registered A/E licensed in the United States.

1. Specification/SOW No. A-SOW-G-00019		2. Revision No. 8	3. Page 6 of 29
4. Date	5. Revision No.	6. Paragraph No.	7. Description of Changes
April 20, 2023	6	3.1.2.C.2-E.2 & F.3	Added reference to ICC, IECC and ASHRAE Standard 90.1
April 20, 2023	6	3.1.3.1	Added reference to 10 CFR 851 in the Life Safety and Structure/building Protection.
April 20, 2023	6	3.1.3.6	Added reference to NFPA 101 chapter 40.
April 20, 2023	6	3.1.5.3	Deleted "Electrical distribution systems shall be in accordance with IEEE 141".
April 20, 2023	6	3.1.10.2. A	Added note "Floor load shall be a 100 pounds per square foot".
April 20, 2023	6	3.6.1.5	Added note to req description of the Engineering deliverables (for future Pos).
April 20, 2023	6	3.6.3.1. B	Updated the note to include more details about reviewing process of EDR documents submitted.
April 20, 2023	6	Attachment 5.1	Updated the EDR list.
April 20, 2023	6	NA	Editorial and minor design changes shown with revision bars throughout the document.
July 24, 2023	7	3.1.5.15	Added section on Surge Protection and Heavy Duty Disconnects requirements in accordance with Engineering Standard 16050.
Sep. 04, 2024	8	OSR 45-10	Removed SOW Cover Sheet (form OSR 45-10) and revised the page numbers
Sep. 04, 2024	8	1.1.6	Revised to require a Qualified Fire Protection Engineer to attend the Post Award meeting
Sep. 04, 2024	8	2.2.2.8.	Added NFPA 1, NFPA 80A and updated the code reference date for NFPA 70 from 2020 to 2023.
Sep. 04, 2024	8	2.2.2.13	Added section subsection for SRS Engineering Standards Manual to require WSRC-TM-95-1 Standard #01120 Rev. 16 SRS Fire Protection Design Criteria
Sep. 04, 2024	8	2.3	Revised the section to add DOE Order 420.1C Change 3, DOE-STD-1066-2016 and OSHA 29CFR1926 to the 2.3 Orders/Regulations section
Sep. 04, 2024	8	3.1.1.1.A & 3.1.12.1. A	Revised to require that the professional architect/engineer be registered in the state of South Carolina.
Sep. 04, 2024	8	3.1.3.6	Revised interior finishes to be Class A.
Sep. 04, 2024	8	3.1.4. C.7	Removed the electrical functional requirements for the public address system. And revised the relevant section stating that the PA system will be installed by SRNS Construction.
Sep. 04, 2024	8	3.1.5	Changed electrical technical design criteria, all changes shown with revision bars throughout the document.
Sep. 04, 2024	8	3.1.5.15.B	The subsection was deleted because it is already covered in 3.1.5.7.
Sep. 04, 2024	8	Attachment 5.2	Updated the architectural concept floor plan examples to remove public address speakers, added some egress doors that required by fire protection (see figures 4,5,10 and 11) and modified the location of some power and data outlets. Additionally added two more conceptual layouts for a total of 14 figures.

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1.0 SCOPE

1.1 General Description

- 1.1.1 This Statement of Work is to establish a Basic Order Agreement (BOA) with a supplier to provide labor, materials and services required for the design, fabrication, inspection, testing, documentation and delivery of modular building units to be used as offices, conference spaces or restroom buildings for the Savannah River Site (SRS).
- 1.1.1.1 Supplement Task Order Assignments (TOA) will define the specific floor plans to provide for each TOA.
- 1.1.2 The BOA is for 2 years with additional three 1-year option renewal periods.
- 1.1.3 Provide the defined interior spaces with heating, ventilation, air conditioning, plumbing, electrical lighting and power and telecommunications as specified herein.
- 1.1.4 Conceptual floor plan examples are shown in Attachment 5.2; Figures 1 through 12.
 - A. The subsequent TOA(s) will define the specific floor plans required.
 - B. This definition may be by reference to the examples and/or other variations needed as specified in the TOA(s).
- 1.1.5 The following variety of configurations may be procured in accordance with this SOW on an as-needed basis:
 - 1.1.5.1 One Double Wide; 28'x 62' (nominal dimension); 13- Offices - See Attachment 5.2, Figure 1.
 - 1.1.5.2 One Double Wide; Conference Room; 28' X 62' (nominal dimension) open floor plan - See Attachment 5.2, Figure 2.
 - 1.1.5.3 One Quad Wide; 48' x 62' (nominal dimension) building with 5-perimeter offices, 1-conference room with space for an additional 8-cubicles along wall (8'x 8' approx.) and center open meeting space OR 12-free standing cubicles in middle area. – See Attachment 5.2, Figure 3.
 - 1.1.5.4 One Quad Wide; 48' x 62' (nominal dimension); 11-perimeter offices and 1-center open meeting space – See Attachment 5.2, Figure 4.
 - 1.1.5.5 One Double Wide; 28' X 62 (nominal dimension); 1 conference (with interior divider wall) room and 3-Offices – See Attachment 5.2, Figure 5
 - 1.1.5.6 One 14' x 49' (nominal dimension) restroom buildings ABA Compliant– See Attachment 5.2, Figure 6
 - 1.1.5.7 One 28' x 62' (nominal dimension); 2 conference/lunchrooms and electrical/communication room – See Attachment 5.2, Figure 7.
 - 1.1.5.8 One 14' x 62' (nominal dimension); 2 conference/lunchrooms and electrical/communication room – See Attachment 5.2, Figure 8.
 - 1.1.5.9 One 14' x 28' (nominal dimension); Men & Women restrooms with Janitor Closet, See Attachment 5.2, Figure 9.
 - 1.1.5.10 One 14' x 67' (nominal dimension); 3 Open Offices with Electrical Room, See Attachment 5.2, Figure 10.
 - 1.1.5.11 One 14' x 67' (nominal dimension); 2 Open Offices, 2 Individual Offices and Closet, See Attachment 5.2, Figure 11.
 - 1.1.5.12 One 14' x 67' (nominal dimension); 2 Conference Rooms and Electrical Room, See Attachment 5.2, Figure 12.

- 1.1.6 A Post Award Meeting between the Supplier and SRNS Procurement, SRNS Design Engineering, SRNS Site Services Housing Manager, QFPE and SRNS Facility End User will be held to discuss project expectations as well as review the EDR and Submittal Receipt/ Review process.

2.0 REFERENCES

2.1 Definitions

2.1.1 Acronyms

ACGIH	American Conference of Governmental Industrial Hygienist
A/E	Architect/Engineer
ABA	Architectural Barriers Act
ARO	After Receipt of Order
AWG	American Wire Gauge
BOA	Basic Order Agreement
CADD	Computer Aided Design & Drafting
CFR	Code of Federal Regulations
EDR	Engineering Document Requirements (OSR 45-6)
EOR	Engineer of Record
EPDM	Ethylene Propylene Diene Monomer
FRP	Fiberglass Reinforced Panels
FSB	Fiber Sensor Box
HMMA	Hollow Metal Manufacturers Association
HVAC	Heating, Ventilation and Air Conditioning
IMC	Intermediate Metal Conduit
NAAM	National Association of Architectural Metal Manufacturers
NCR	Non-Conformance Report
PA	Public Address
PDF	Portable Document Format
PO	Purchase Order
PVC	Polyvinyl Chloride
QFPE	Qualified Fire Protection Engineer
RMC	Rigid Metal Conduit
SDDR	Supplier Deviation Disposition Request (OSR 45-4)
SOW	Statement of Work
SRNS	Savannah River Nuclear Solutions, LLC
SRS	Savannah River Site
TOA	Task Order Agreement
TMGB	Telecommunications Main Ground Bar
UL	Underwriters Laboratory
VOC	Volatile Organic Compound

2.1.2 Terms

- 2.1.2.1 As-Built Drawing: A record drawing that reflects the as-installed configurations of structures, systems, or components within specified design tolerances defined by codes, standards, or project requirements.

2.1.2.2 Deliverable: A specific end product to be completed and provided in accordance with the defined schedule and this SOW.

2.2 Codes / Standards

2.2.1 General

2.2.1.1 Use the edition in effect at date of subcontract award unless noted otherwise.

- A. Material standard editions dated within the previous 10 years from the date of subcontract award are acceptable.
- B. Indicated Codes / Standards edition identifiers followed by an asterisk (*) are required editions with alternative editions not allowed.
- C. Hierarchy of required codes and standards are established in this document. The manufacturer shall provide the necessary code information on the drawings required in the EDR. Note that lesser referenced codes, standards, orders or regulations shall not override the required codes and standards.

2.2.1.2 Obtain SRNS acceptance for Codes / Standards not required by this specification prior to use.

2.2.1.3 Obtain SRNS acceptance for editions and/or addenda of Codes / Standards not specifically authorized by this specification prior to use.

2.2.2 Required Codes / Standards

2.2.2.1 American National Standards Institute (ANSI)

- A. Steel Door Institute - ANSI/SDI A250.4, 2022 Physical Endurance of Steel Doors, Frames and Frame Anchors
- B. Builders Hardware Manufacturers Association – ANSI/BHMA A156.2, 2017, Bored and Preassembled Locks and Latches
- C. National Electrical Manufacturers Association – ANSI/NEMA C80.1, 2020, Electrical Rigid Steel Conduit
- D. National Electrical Manufacturers Association – ANSI/NEMA C80.6, 2018, Electrical Intermediate Metal Conduit

2.2.2.2 American Society of Civil Engineers (ASCE)

- A. 7, 2016, Minimum Design Loads and Associated Criteria for Buildings and Other Structures

2.2.2.3 American Society for Testing and Materials (ASTM)

- A. A112-19.2 Ceramic Plumbing Fixtures
- B. E84, 2018, Standard Test Method for Surface Burning Characteristics of Building Materials
- C. D1418, 2022, Standard Practice for Rubber and Rubber Latices—Nomenclature
- D. D1785, 2021, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
- E. D2466, 2021, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
- F. F876 RevB, 2020, Standard Specification for Crosslinked Polyethylene (PEX) Tubing
- G. F877, 2022, Standard Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems

- H. F2023, 2021, Standard Test Method for Evaluating the Oxidative Resistance of Crosslinked Polyethylene (PEX) Pipe, Tubing and Systems to Hot Chlorinated Water
 - I. C518, 2021, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
 - J. C578, 2022, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
 - K. E557, 2012, Standard Guide for Architectural Design and Installation Practices for Sound Isolation between Spaces Separated by Operable Partitions .
 - L. E90,2009, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
 - M. E336, 2020, Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings
 - N. E413, 2022, Classification for Rating Sound Insulation
 - O. C423, 2022, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- A. 62.1, 2019, Ventilation for Acceptable Indoor Air Quality
 - B. 90.1, 2021, Energy Standard for Building Except Low-Rise Residential Buildings
- 2.2.2.5 International Code Council (ICC)
- A. IBC, 2018, International Building Code
 - B. IECC, 2018, International Energy Conservation Code
- 2.2.2.6 Illuminating Engineering Society of North America (IESNA)
- A. HB-10, The Lighting Handbook, 10th Edition
- 2.2.2.7 National Electrical Manufacturers Association (NEMA)
- A. KS 1, 2013, Heavy Duty Enclosed and Dead-Front Switches
- 2.2.2.8 National Fire Protection Association (NFPA)
- A. 1, Fire Code, 2009.
 - B. 10, Standard for Portable Fire Extinguishers, 2018Ed
 - C. 70 National Electric Code, 2023
 - D. 80A Recommended Practice for Protection of Buildings from Exterior Fire Exposures, 2022
 - E. 90A Standard for the Installation of Air-Conditioning and Ventilating Systems, 2021
 - F. 90B Standard for the Installation of Warm Air Heating and Air-Conditioning Systems, 2021
 - G. 101 Life Safety Code, 2018
- 2.2.2.9 International Standards Organization (ISO)
- A. 9001 Quality Management Standard
- 2.2.2.10 Sheet Metal and Air Conditioning Contractors' National Association (SMACNA)
- A. HVAC Duct Construction Standards Metal and Flexible-Third Edition.
- 2.2.2.11 Underwriters Laboratory (UL)
- A. 444, 2017, UL Standard for Safety Communications Cables - Fifth Edition
- 2.2.2.12 CSA Group Standards (CSA)
- A. B137.5, 2020, Crosslinked polyethylene (PEX) tubing systems for pressure applications

2.2.2.13 SRS Engineering Standards Manual

- A. WSRC-TM-95-1 Standard #01120 Rev. 16 SRS Fire Protection Design Criteria

2.3 Orders / Regulations

2.3.1 ABA, 2015 Architectural Barriers Act Standards

2.3.2 DOE STD-1066, 2016 - Fire Protection

2.3.3 DOE Order 420.1C, Change 3, 2019 – Facility Safety

2.3.4 OSHA 29 CFR 1926: Safety and Health Regulations for construction

2.3.5 29 CFR PT 1910, Occupational Safety and Health Standards

2.3.6 10 CFR 851.23 (a)(9) and (a)(13), Worker Safety and Health Program

2.3.7 South Carolina Building Code

2.4 SRNS Documents

2.4.1 Drawings

None Specified.

2.4.2 Documents

2.4.2.1 OSR 45-4, 2016, Supplier Deviation Disposition Request (SDDR)

- A. With Instructions.

3.0 TASK REQUIREMENTS

3.1 Design Scope and Requirements

3.1.1 General

3.1.1.1 Provide engineering services for development and preparation of design documents that are adequate for complete construction of the facilities in accordance with this SOW.

- A. The Supplier's Architect/Engineer (A/E) shall be a professionally registered A/E licensed in the of South Carolina and shall serve as the Engineer of Record (EOR).
- B. Supplier to provide ComCheck Energy Calculations and certification that the units provided meet the energy requirements defined by the ComCheck document.

3.1.1.2 Design basis environmental conditions shall be as follows:

- A. Location: Outdoors
- B. Atmosphere: Air
- C. Temperature Range: 5°F (-15°C) to 104°F (40°C)
- D. Relative Humidity: 100% (Non-condensing)
- E. Radiation: None
- F. Altitude: Nominal 250 ft. above sea level

3.1.2 Architectural Functional Requirements of Modular Building

- A. The desired floor plan(s) will be defined in the subsequent TOA(s).
 - 1. The TOA may define floor plans by reference to the examples in Attachment 5.2 and/ or by inclusion of a different floor plan layout.
- B. Provide a pre-fabricated modular building.
 - 1. The building shall be shipped furnished with Heating, Ventilation and Air Conditioning (HVAC), plumbing and all electrical and communication wiring.
 - 2. Transmit proposed building manufacturer and example design drawings with bid.

- C. Roof Assembly:
 - 1. Provide mono slope trusses to create gable roofs for double wide units and transverse slope trusses for quad units and any units where the owner desires future additions to units. All slopes shall be arranged to drain stormwater away from entry locations.
 - 2. Provide thermal insulation per ICC IECC and ASHRAE Standard 90.1 requirements of table 5.5.3 for Climate Zone 3A.
 - 3. Provide a 60mil Ethylene Propylene Diene Monomer (EPDM) rubber roofing membrane.
- D. Ceiling Assembly:
 - 1. Deleted.
 - 2. Provide a continuous "hard" (surface mounted lighting is required) ceiling at minimum height of 8'-6" Above Finished Floor (A.F.F) in restroom units.
 - 3. A suspended grid with acoustic panel (recessed grid supported lighting required) at a minimum height of 8'-0" Above Finished Floor (A.F.F.).
- E. Wall Assembly:
 - 1. Provide wood frame construction with manufacturer's standard sheathing and weather barrier system.
 - 2. Provide insulation as required per ICC IECC and ASHRAE Standard 90.1 requirements of table 5.5.3 for Climate Zone 3A.
 - 3. Provide fire rated wood blocking in walls as shown in Attachments 5.2 for miscellaneous owner commodities.
 - 4. Exterior wall finish:
 - a. Provide manufacturer standard pre-finished exterior steel wall panels as exterior finish.
 - b. Exterior face metal panels go all the way up to the underside of roofdeck.
 - 5. Interior walls finish:
 - a. Provide the manufacturer standard wall and finish system for all walls other than those identified within this section.
 - b. Deleted.
 - c. Provide moisture resistant gypsum board and Fiberglass Reinforced Panels (FRP) on walls full height in restrooms and janitor's closet
- F. Floor Assembly:
 - 1. Provide an integral structural floor (refer to structural sections of this SOW).
 - 2. All floors will have a manufacturer's standard floor finish of carpet tiles, vinyl composition tiles or sheet vinyl based on owner desired requirements for each unit.
 - 3. Provide thermal insulation in the floor per ICC IECC and ASHRAE Standard 90.1 requirements of table 5.5.3 for Climate Zone 3A.
- G. Doors:
 - 1. Provide 1 3/4" insulated, metal doors (galvannealed and shop painted finish if steel OR anodized aluminum with shop painted finish) and frames in maximum thickness and gauge using the manufacturer's standard options.
 - 2. Size: Interior and exterior are 36" wide (32" min clear width) x 80" high (78" min clear height).
 - 3. Provide flush prefinished entry/exit doors. All interior doors shall be flush.

4. Finish: Provide shop finish on exterior steel doors per manufacturer's recommendations. Provide a prime coat and two additional coats for paint finish on interior doors and door frames. Color to be determined by SRNS.
 5. Provide manufacturer standard interior doors unless otherwise noted or requested at the time of purchase.
- H. Door Hardware:
1. All hardware, interior and exterior, shall have US 32D finish.
 2. Exterior Entry Door: Provide Rim Panic Bar with Key Retractable Latchbolt.
 - a. Provide weather-stripping and aluminum thresholds at all exterior doors.
 - b. Provide weatherproof hinges and weatherproof closers on all exterior doors.
 - c. Provide wall stops on all interior doors.
 - d. Provide lever locksets on entry/ exit doors at the building unit matching Figure 1 (Office) in Attachment 5.2.
 - e. If the Kaba Simplex, part #5021RWL26D41 (cipher lock), prepped for Sargent Interchangeable Core is desired for use on the building unit matching Figure 1, the lever lockset must be compatible with the Kaba Simplex locking component. All exiting door hardware to be UL Listed.
 - f. Where the Kaba Simplex, part #5010RWL26D41 (cipher lock), prepped for Sargent Interchangeable Core is required on entry/ exit door locations for Units Matching Figures 2 (Conference Room), 3 (Bullpen, 5 Offices and 1 Conference), 4 (Bullpen and 11 Offices), 5 (Conference Room with Divider and 3 Offices), provide the Von Duprin 22 panic bar exit device to compliment the Kaba Simplex component. All exiting door hardware to be UL Listed.
 - g. If the Kaba Simplex locking system is not required for a building, the manufacturer provided panic bar exit device may be used. All exiting door hardware to be UL Listed.
 - h. The door hardware manufacturers and model numbers may change, from those listed above, at the discretion of the SRS Site Lock and Key Safeguard and Security Group. All exiting door hardware is required to be UL Listed.
 3. Interior Doors:
 - a. Provide passage lever sets on all doors except at closets or support spaces where a keyed lever lockset with storeroom function will be utilized.
 - b. Provide keyed lever lockset with office function on all office doors.
 - c. Provide a push pull set with closer for access to restroom.
- I. Windows: Provide single hung, aluminum, insulated, thermally efficient windows.
- J. Interior Divider Walls (as shown in Figure 5): Provide accordion type with overhead support above the ceiling and a rolling jamb board at the storage pocket.
- K. Colors:
1. Colors of all materials of exterior and interior finishes to be selected by SRNS.
- L. Signage
1. SRNS to provide interior and exterior signage. Trailer installer to install new signage.

- M. Fire Extinguisher(s):
 - 1. Supplier to provide a mounting plaque. The plaque shall be a $\frac{3}{4}$ " thick x 8" wide x 24" tall piece of plywood (painted red) mounted to the wall in the location as shown on the Example drawings, in a height as required by applicable codes.
 - 2. SRNS to provide and mount fire extinguishers on the supplier provided mounting plaque.
- N. Breakroom Cabinets:
 - 1. Provide built-in lower and upper storage cabinets.
 - 2. Provide double compartment stainless steel sink with hot and cold running water. Refer to Attachment 5.2 for installation location options.
 - 3. Provide above counter receptacles for microwaves and coffee maker at base cabinet.

3.1.3 Architectural Technical Design Criteria

- 3.1.3.1 Life Safety and Structure/Building Protection: Comply with NFPA 101, ICC IBC, 10 CFR 851 and OSHA 1910.
- 3.1.3.2 Structure/Building layout and egress: Use most stringent requirement from NFPA 101 or ICC IBC.
- 3.1.3.3 Allow additional clearance for working space in front of electrical equipment in accordance with NFPA 70 and for swing space of doors and cabinets as needed.
- 3.1.3.4 Minimum Type of Construction per ICC IBC: Type V, B.
- 3.1.3.5 Building components shall meet the following criteria:
 - A. Walls shall be constructed of wood without using any leaching chemicals, per ICC IBC.
 - B. The ceiling shall be continuous utilizing the manufacturer's standard ceiling system and finish.
 - C. Steel metal frame work shall be required as needed by manufacturer.
 - D. The modular units shall be supplied with insulated windows utilizing the manufacturer's standard units. The windows shall be 30"x40" with a max allowable air leakage of 0.3 cfm per square foot of window area with a design pressure between 25 and 35 pounds per square foot. The windows shall meet the energy calculation requirements for the maximum allowed U-Factor and Solar Heat Gain Coefficient. The windows shall be equipped with sill length horizontal 1" aluminum window blinds. Color: off-white.
 - E. Provide minimum .0217 in. (26-gauge) vertical galvanized steel siding with baked on enamel finish and corrugated to give the appearance of a reverse board and batten installation. The color shall be colonial white for siding and trim.
 - F. The roof will have a design load of 20 psf wind load of ASCE 7-10 and Vult 130mph, Vasd 100mph per IBC-2012 Table 1607.1. The EPDM roofing membrane shall meet ASTM D1418.
 - G. All hallways shall be a minimum of 44" wide, per ICC IBC 1018.2 and NFPA 101.
 - H. A minimum of (2) exterior doors with dimensions 36" x 80" shall be provided per IBC 1008.1.1 and NFPA 101. The exterior doors shall be swinging hinge doors that open to the exterior and shall be 36 in. x 80 in. x 1 3/4 in. steel face and construction with polystyrene core and shall conform to ANSI/SDI A250.4 with 20

- gage metal face Level B and an STC Rating of 23 and U Factor of .157 (ASTM C518 and ASTM C578).
- I. The interior doors shall be swinging hinge doors that open inwards and shall be 36 in. x 80 in. x 1-3/4 in. hollow core (Masonite or equal) pre-hung and equipped with door hardware per ANSI BMHA A156.2, lock preparation. Drive-in latches are acceptable. Doors shall be undercut for air circulation. Doorstops shall be provided for all interior doors.
 - J. Interior Divider Wall (by Hufcor 4100 Series or equal) construction shall conform to ISO 9001.
 - 1. Preparation of the opening shall conform to ASTM E557.
 - 2. Provide a minimum STC Rating 41. Sound classifications shall conform to ASTM E90, ASTM E336, ASTM E413 and ASTM C423.
 - 3. Supports for the divider walls will be located above the ceiling and a pocket wall assembly will be provided on each interior wall such that the new divider walls will meet and latch in the center span of the width of the room.
 - 4. Partition shall be supported by a 4-wheeled carrier at the lead post. Wheels to be of nylon-tired steel ball bearings. The lead carrier shall be adjustable to maintain proper alignment of the lead post to the jamb.
 - 5. The finish shall be in the manufacturer's materials that are required to meet the STC Rating of 41. A vinyl finish is preferred with a rubber floorseal.
 - K. Provide roof, wall and floor insulation see sections 3.1.2.C2, 3.1.2.E2 and 3.1.2.F3.
 - L. Floor Finishes:
 - 1. Carpet Tiles shall be provided in all office, conference, bullpen, and corridors, unless otherwise requested.
 - 2. Sheet Vinyl Flooring and coved base shall be provided throughout the restroom building units, unless otherwise requested.
 - 3. Vinyl Composition Tile with wax finish and coved base shall be provided in Kitchen and Electrical/Communications spaces, unless otherwise requested.
 - 4. Cove Base shall be 4" rubber on continuous coil. Prefinished corners are acceptable.
 - M. Restroom stall partitions shall be at least 32 in. wide, 55 in. deep. (Accessible stall partitions shall be 60" min. wide, 60" min. deep per ABA). Material type, height, length, and method of installation shall be provided by the supplier as part of proposal.
 - N. Each toilet stall shall be equipped with the following:
 - 1. One double roll toilet paper holder.
 - 2. One toilet seat cover dispenser.
 - 3. One sanitary napkin disposer (women's restroom only).
 - 4. Grab Bars in the accessible stalls in arrangement to meet the defined code requirements.
 - O. Urinal partitions are to be a minimum of 25 in. deep, 40 in. tall, and raised a minimum of 20 in. off the floor.
 - P. Mirrors are to be 24 in. X 36 in., 1 over each wall hung sink location.
 - Q. Space for soap dispensers shall be allowed between each sink, with appropriate wood blocking reinforcement in the walls to support the dispensers. A minimum of

2 paper towel dispensers will also be placed on the walls of each restroom room with wood blocking as required. SRNS shall install site standard dispensers.

- R. Provide metal flashing (26ga) with a minimum of 5" above the door and window heads behind the exterior wall finish and a minimum of 1" cant exposed above the head of the opening. Flashing shall extend 3" past each side of opening. Flashing shall be attached to the wall substrate behind the exterior wall finish at the ends and at 4" on center.

- S. Breakroom base and wall cabinets:

- 1. Provide 3/4" plywood for the sides, shelves, and floor panel. Provide minimum of 1" x 2" top and bottom rails at back of cabinet with 3/8" plywood back or provide 3/4" solid plywood back. The face frame shall be constructed using a minimum of 1 x 2 with recessed hinges and full overlay doors. The countertop shall be 2 layers of 3/4" plywood with plastic laminate finish and 4" tall plastic laminate back and side splash as applicable. The splashes shall be set in a bed of silicone and the joints caulked with latex in color to match countertop.

3.1.3.6 Flame and smoke spread for interior finish materials shall meet the requirements of Class A as defined in NFPA 101 Chapters 7,10, 12 and 38.

3.1.3.7 All penetrations and holes through the ceiling, exterior walls, and floor for Target value of 1 cfm/ft² of conditioned floor area.

3.1.3.8 Air Leakage shall meet requirements of section 5.8.3 of ASHRAE Standard 90.1.

3.1.4 Electrical Functional Requirement of Modular Building

A. Distribution System

- 1. A surface mounted main service fused disconnect labeled as suitable for service equipment shall be provided for installation by SRNS exterior to the building.
 - a. Purchase order will define need for either:
 - 1) Three phase 208/120V or
 - 2) Single phase 120/240V
 - b. The disconnect shall be sized to accommodate the building's connected load.
 - c. The disconnect shall be shipped loose with the building.
- 2. Flush mounted distribution panels shall be provided within the building.
 - a. Each building sub panel shall be fed from the main service disconnect.
 - b. The distribution panel shall be sized to accommodate the building's connected load.
 - c. Distribution panels shall have an equipment grounding bus.
 - d. Feeder neutrals shall be the same ampacity as phase conductors.
 - e. Distribution panels shall be provided with a main disconnect circuit breaker.
 - f. Provide unique panel and load device labeling identifying the circuit providing power to each device.
- 3. Duplex receptacles shall be provided as shown in Attachment 5.2.
 - a. Receptacles shall be grounded via a dedicated ground conductor.

- b. Receptacle mounting height above the floor shall be 15 inches to top of outlet.
 - c. Mount receptacles with ground pin upwards.
 - d. Receptacles shall be wired on two different circuits, one on each side of the building's longitudinal axis, such that not all will lose power at once.
 - e. Provide a clear adhesive label, with black lettering and numbering, placed on the outlet cover labeling the circuit from which it is fed.
4. Each exterior HVAC unit shall have an outside local disconnect switch, which shall be in an accessible location no higher than 6 ft. above the bottom of the building.
 5. The maximum circuit size for a tankless water heater shall be 30 amp.
- B. Lighting
1. Interior fixtures shall be LED type.
 2. Exterior fixtures shall be LED type and operated by photosensors to automatically illuminate at nightfall.
 - a. Provide exterior wall mounted fixtures at each door.
 3. Light switches shall be provided for all full height wall rooms.
 - a. Dimmer type light switches shall be provided for conference rooms.
 - b. Provide switches at entrances for all other areas.
 - c. Provide a clear adhesive label, with black lettering and numbering, placed on the switch cover labeling the circuit from which it is fed.
 4. Lights shall be wired on two different circuits, one on each side of the building's longitudinal axis, such that not all will lose power at once.
 5. Emergency lighting shall be provided in the building as required by NFPA 101.
 6. Exit signs shall be provided in the building as required by NFPA 101.
 7. Lights in restrooms will be tied to an occupancy sensor to only activate in restrooms during use.
- C. Telecommunications
1. Provide telecommunications backboard as shown in each building in the location shown on each layout drawing.
 - a. The backboard shall be 4'w X 8'h X 3/4" thick A-C plywood, painted white with 2-coats of fire-retardant paint (with the A side out) to accommodate the backboard design (including wall mounted network equipment racks/cabinets).
 2. Provide (2) dedicated 20A duplex receptacles fed from the building distribution panel on the backboard.
 - a. The top of the outlet boxes shall be mounted 8" min to 18" max A.F.F.
 3. A minimum # 6 insulated continuous copper AWG ground wire shall be placed from the main AC electrical service equipment (power) ground and connected to the Telecommunications Main Ground Bar (TMGB) on the backboard.
 - a. If it is necessary to place the ground wire in a ferrous metallic conduit that exceeds three feet in length, both ends of the conduit shall be bonded to the ground wire.
 - b. A TMGB shall be placed in a horizontal alignment on the top left corner of the backboard.
 - 1) The TMGB shall be at least 1/4" thick X 4" wide X 12" in length.

4. Provide two 4" metallic conduit sleeves penetrating the floor below the backboard that extend 6" above and below the building floor/vapor barrier.
 - a. Sleeves shall be provided with bushings.
 - b. Bond the sleeves with a sufficiently sized bonding conductor to the TMGB.
5. Voice and data communications outlets shall be provided at locations shown on the attached layout drawings.
 - a. Provide all universal wiring from the backboard to the outlet boxes.
 - b. Each outlet shall be comprised of one "Voice" wire, one "Data 1" wire and one "Data 2" wire.
 - c. Label the faceplates of the outlets accordingly to identify ""Voice" or "V", "Data 1" or "D1", and "Data 2" or "D2".
6. The cabling and/or wiring shall not be terminated on the blocks but shall be arranged in a manner that protects them from likely damage during transit. The jacks and wiring shall be numbered sequentially, so that the jack marked "1" will correspond with the cable/wire marked "1" in the telecommunications room.
 - a. Provide communications cable/wire of sufficient length that will allow a minimum of 10 feet of cable to be coiled at the top of the backboard for each communications circuit after the modular unit sections have been assembled on-site.
7. Public Address (PA) System
 - a. The PA speakers and systems will be installed by SRNS construction.

3.1.5 Electrical Technical Design Criteria

- 3.1.5.1 All electrical materials and equipment shall be Nationally Recognized Testing Laboratory, as listed by OSHA.
- 3.1.5.2 All electrical equipment, raceway and wiring shall be designed and installed in accordance with NFPA 70 and manufacturer's instructions.
- 3.1.5.3 DELETED
- 3.1.5.4 Exposed conduit shall be rigid metal conduit (RMC exterior required, interior optional) or intermediate metal conduit (IMC interior only) in accordance with ANSI C80.1 or ANSI C80.6, respectively.
 - A. DELETED
 - B. Use of conduit smaller than ½" is prohibited.
- 3.1.5.5 Power and control cables can be solid copper or stranded copper in accordance with NFPA 70.
 - A. Use of conductors smaller than #12 AWG is prohibited, except as allowed for thermostats.
 - B. Insulation type shall be THHN or THWN-2 unless noted otherwise.
 - C. DELETED
- 3.1.5.6 Common neutrals shall not be used.
- 3.1.5.7 Safety switches, both fused and non-fused, shall be heavy-duty with a viewing window side operated furnished with insulated handle, interlocking cover, equipment grounding terminals and capability to be locked in the Off (open) position using standard padlocks in accordance with NEMA KS1.
 - A. Fusible disconnects shall have fuse clips accepting only current limiting fuses.

- 3.1.5.8 Low voltage distribution panels shall be dead front type with copper mainbus.
 - A. Breakers shall have bolted bus connections.
 - B. Plug-in and tandem breakers shall not be utilized.
 - C. All circuit breakers shall have permanent provisions for a lock-out.
- 3.1.5.9 Interior and exterior lighting shall be in accordance with IESNA HB-10 and NFPA 101.
- 3.1.5.10 Emergency lights shall be LED type with a minimum battery backup of 90minutes.
- 3.1.5.11 Grounding:
 - A. Shall be in accordance with NFPA 70.
 - B. Each branch circuit shall be provided with equipment grounding conductors along with power circuit conductors.
 - C. Utilize separate ground conductors in all raceways.
 - D. Raceways shall not be used as the ground fault return path.
 - E. Ground wires shall be copper, uninsulated, or insulated with green insulation.
 - F. Bond steel metal framework of the trailer to the electrical distribution system grounding system.
- 3.1.5.12 Telecommunications
 - A. Voice and data wiring shall be 4-pair, 24-AWG solid copper conductors, unshielded twisted pair, UL 444 verified Category 5e and PVC jacketed.
 - B. The UL rating shall be clearly stenciled on the side of the wiring at regular intervals and on the box or reel.
- 3.1.5.13 Fire Alarm and Detection
 - A. Not required for this project.
- 3.1.5.14 Fire Suppression
 - A. Not required for this project.
- 3.1.5.15 Surge Protection and Heavy Duty Disconnects with Viewing Windows are required.
 - A. Surge Protection Device shall be installed in all power distribution panels supplying power to buildings/structures and at entrances of all conductive communications systems (e.g., CATV, alarm, data, security and PA).
 - B. DELETED
- 3.1.6 Mechanical Functional Requirement for Modular Building
 - A. Provide a Wall-Mount Air Conditioner that is self-contained, energy efficient and provides for fresh air makeup. The unit shall be designed with a scroll compressor, multispeed blower, electrical heat strips (with automatic limit and thermal cut-off safety control) and use R-410A refrigerant outside. The HVAC system in the Modular building to maintain the minimum following temperature ranges:
 - 1. Heating: 65-72° F
 - 2. Cooling: 68-75° F
- 3.1.7 Mechanical Technical Design Criteria
 - 3.1.7.1 Ventilation shall be in accordance with ASHRAE 62.1 for an office building.
 - A. Equipment sizing shall be based on square footage and occupancy (assume one person per office).
 - 3.1.7.2 The HVAC units shall be capable of maintaining 72°F dry bulb in the summer and 75 db in the winter based on ambient conditions of 99°F db summer and 30°F winter.
 - 3.1.7.3 The modular buildings shall be outfitted with independent external HVAC heat pump units attached to the wall. Each unit shall be sized to supply half of the needed tonnage for the building. The ductwork shall be contained in the attic area with ceiling

- registers into each room. The HVAC units shall be designed to supply air throughout the building, per NFPA 90A 6.4.2.1. Where trailers are less than 25,000 cubic feet, utilize NFPA 90B. The HVAC system shall meet the requirements of NFPA 90A and the latest requirements of the South Carolina building Code of 13 SEER or higher.
- 3.1.7.4 The heat pumps shall be provided with economizer cycle modulated air makeup and/or auxiliaries, and resistive heat backup. The outside air damper on the economizer shall close automatically when system is not in use.
- 3.1.7.5 The heat pumps shall be compatible with the specified electrical system. Each heat pump unit shall have an outside disconnect switch, which shall be in an accessible location no higher than 6 ft. above the bottom of the building.
- 3.1.7.6 The supply duct system shall meet the air conditioning and heating system manufacturer's recommendations and have one adjustable 12-in. ceiling supply registers for proper air circulation in each room. The supply duct system shall be installed with insulation to minimize HVAC noise. Attention shall be given to those areas closest to the HVAC units.
- 3.1.7.7 The thermostats shall be an electronic programmable type having automatic and constant fan operation for heat and cool with the automatic change-over feature and night time setback, with on/off feature.
- A. Fans in restrooms shall be tied to occupancy sensor and will only activate during usage of restroom.
- B. Thermostats will include lock covers to maintain temperature conditions.
- 3.1.7.8 HVAC units shall have thermal overload/thermal overheating protection.
- 3.1.7.9 Equipment sizing shall be based on square footage vs. occupancy.
- 3.1.8 Plumbing Functional Requirements for Modular Building -Restroom Building Only
- A. Plumbing supply piping shall be provided to all fixtures with a centrally located water supply connection provided below the building floor for connection by SRNS.
- B. Plumbing drain, waste, and vent (DWV) piping shall be supplied to all fixtures. Where appropriate, drain piping shall be stubbed below the building floor for connection to DWV piping/headers below the floor. Due to transportation limitations, the below floor DWV piping system will be supplied and assembled on-site by SRNS. A minimum of 1 floor drain is required in each of the men's and women's restroom. The drains are recessed 1/4" and floors are not to be sloped.
1. Provide the design details for installation of the below floor DWV piping/header(s) on the building drawings.
- C. Submit product data on all piping, fittings, and support materials/components used in construction of the building.
- D. Submit product data for all plumbing fixtures and components.
- 3.1.9 Plumbing Technical Design Criteria
- 3.1.9.1 The plumbing supply, drain and vent pipes lines shall be sized and routed by the manufacturer based on the fixture type and count.
- 3.1.9.2 The supply lines shall be installed using the PEX system complete with all of the necessary components (manifolds, valves, etc.) and fittings.
- A. ASTM A112-19.2
- B. ASTM F876
- C. ASTM F877
- D. ASTM F2023
- E. CSA B137.5.

F. Plumbing Fixtures:

1. Mount all fixtures as required to meet the applicable codes defined.
 - a. Toilets: Vitreous China, Flush Valve, Round Front, HC Accessible as required.
 - b. Urinals: Vitreous China, High Efficiency Siphon Jet, Rear Outlet, HC Accessible as required.
 - c. Lavatory: Vitreous China, Hot and Cold water valves, Pipe wraps for all drain lines, HC Accessible as required.
 - d. Electric Tankless Water Heater for the collective Lavatories in each of the men's and women's restroom, Dual Faucet with a minimum flow rate of .5 GPM.

3.1.9.3 The drain lines and vents shall be Schedule 40 Polyvinyl Chloride.

- A. ASTM D1785
- B. ASTM D2466

3.1.10 Structural Functional Requirements for Modular Building

3.1.10.1 Structural systems and components shall be designed in accordance with ASCE 7-10, ICC IBC with references as amended below.

3.1.10.2 Live Load shall meet minimum requirements of ICC IBC.

- A. Floor load shall be 100 pounds per square foot.

3.1.10.3 Supplier may exceed the Structural Design Requirements where conservative results are produced with no additional impact to SRS.

3.1.10.4 As part of the contract, any damage done to the building during transit to the site shall be the responsibility of the supplier.

3.1.11 Structural Technical Design Criteria

3.1.11.1 The building shall be designed per the requirements of ICC IBC and ASCE 7 for Risk Category II with the following parameters:

- A. Wind Design (W)
 1. Velocity pressure exposure coefficient, K_z , per Exposure "C"
 2. Topographic factor, $K_{zT} = 1.0$
 3. Basic wind speed, $V = 117$ mph
- B. Seismic Design (E)
 1. Short-period spectral acceleration, $S_{DS} = 0.316g$
 2. 1-second period spectral acceleration, $S_{D1} = 0.17g$
 3. IBC Seismic Design Category "C"
 4. Importance factor, $I_E = 1.0$
- C. Ice and Snow Design
 1. Nominal ice thickness, $t = \frac{1}{2}$ "
 2. Concurrent wind speed, $V_i = 30$ mph
 3. Ice importance factor, $I_i = 1.0$
 4. Wind importance factor, $I_w = 1.0$
 5. Ground snow load, $p_g = 5$ psf
 6. Snow importance factor, $I_s = 1.0$

3.1.11.2 Commodity supports shall be in accordance with the following code:

A. Electrical = NFPA 70

3.1.11.3 Modular Building manufacturer to supply anchoring system requirements to SRNS within the instructions for installation.

3.1.12 Design Deliverables provided by Manufacturer

3.1.12.1 All deliverables as defined in this section shall be submitted in accordance with Section 3.6.

A. Technical design documents and calculations shall be prepared under the direct supervision of, and sealed by, a professional architect/engineer registered in the state of South Carolina.

B. For all calculations developed using software, a confirmation/record showing that the validation and verification has been completed and shall be submitted with each calculation either as an attachment or as a separate document.

3.1.12.2 Architectural

A. Floor Plans

1. Floor plan showing basic layout and dimensions for all components of each of the units, wall thickness, door sizes and swing direction, window unit locations and sizes, etc.

B. DELETED

1. DELETED

C. Exterior Elevations:

1. Elevations of all sides

D. Schedules: Finish, Door, Window

E. Warranty to certify the structure is constructed in accordance with the Manufacturer's Assembly Instructions and include certification from the manufacturer that they approve the installation and their material warranty is valid.

F. Product data for the following materials:

1. Exterior Materials

a. DELETED

b. DELETED

c. Doors and Door Frames: Provide cut sheets regarding dimensions, material, type, gauge, finish, etc.

d. DELETED

2. Interior Materials

a. DELETED.

b. DELETED.

c. Floor Finishes: Show cut sheets regarding dimensions, material, type, gauge, finish, etc.

d. Folding Door/ Wall: Show cut sheets regarding dimensions, material, type, gauge, finish, etc.

e. Flame spread classifications

3. DELETED

a. DELETED.

4. Colors:

a. Interior: Color Chart for selection by SRNS.

1) Paint or Wall Covering

2) Fiberglass Reinforced Panels

- 3) Carpet Tile Flooring
 - 4) Vinyl Composition Tile Flooring
 - 5) Sheet Vinyl Flooring
 - 6) Toilet Partitions
- b. Exterior: Color Chart for selection by SRNS.
- 1) Color Chart and Panel Profile for Exterior Walls
 - 2) Color Chart for Window Frames
 - 3) Color Chart for Door Frame and Door

3.1.12.3 Electrical

- A. Panel Sizing Calculations.
- B. Panel Schedules
- C. Power and Lighting Plan Drawings
 1. Including locations of panels, lights, receptacles, speakers, occupancy sensors
- D. Building Grounding Details
- E. Product data for the following materials:
 1. Distribution Panels
 2. Disconnect Switches
 3. Fuses
 4. Cables
 5. Light Fixtures
 6. PA System Equipment (Amplifier, Speakers, etc.)
 7. Occupancy Sensors

3.1.12.4 Mechanical

- A. HVAC Plan showing duct and diffuser layouts.
- B. Equipment Sizing Calculation
- C. Product data for the following materials:
 1. Fans
 2. Diffusers (supply and return)
 3. HVAC units

3.1.12.5 Plumbing

- A. Plumbing Plan drawings
 1. Location and sizes of supply lines.
 2. Location and sizes of the waste and vent lines.
- B. DELETED

3.1.12.6 Structural

- A. Calculations to justify structural integrity of the building and anchoring system design.
- B. Copy of the shipping preparation procedure.

3.2 SRNS Furnished Material, Equipment, Services

3.2.1 SRNS will provide the following:

- 3.2.1.1 Trailer installation.
- 3.2.1.2 Gutter/downspout installation.
- 3.2.1.3 Toilet room accessories installation.
- 3.2.1.4 Fire Extinguishers and mounting brackets to be field installed.
- 3.2.1.5 The entry system (concrete walk, concrete pads, stairs, landings, etc.) from finish grade to the finish floor level of each unit will be supplied and installed by SRNS.
- 3.2.1.6 Final connections of all utilities and installation of skirting for each modular unit will be completed by SRNS.

3.3 Quality Requirements

None specified.

3.4 Site Conditions

None specified.

3.5 Personnel Qualification / Certification

None specified.

3.6 Deliverables and Submittals Processing

3.6.1 Required Submittals:

- 3.6.1.1 Defined in specific requirement statements and listed on the Engineering Document Requirements (EDR) form, Attachment 5.1.
- 3.6.1.2 Review prior to submission.
- 3.6.1.3 Certify conformance of documents to SOW requirements by signature of the Supplier's Authorized Engineering Representative.
- 3.6.1.4 List the following on each submittal transmittal cover letter:
 - A. Document category number, and applicable SOW Section and paragraph number (Reference Columns 1 and 2 of Attachment 5.1).
 - B. Document description.
- 3.6.1.5 Reference the following information on transmittal letters, submittals and other correspondence:

Date of transmittal,
Sequence page number and total number of pages on each page,
Supplier Name,
SRNS Purchase Order (PO) No.: _____(Defined on Award)
SRNS Project No.: _____(Defined on Award)
SRNS Project Title: _____(Defined on Award)
SRNS Buyer: _____(Defined on Award)

SRNS Responsible Engineer and/or
Cognizant Technical Function: Area End User (Facility Requesting
Equipment)
Vendor Document Review by SRNS: Design Engineering, Architect

Supplier's Order Number: _____
Supplier's Order Number: _____

- A. Transmit with a completed Transmittal Letter.

- 3.6.1.6 Provide documentation in unprotected Adobe Acrobat - Portable Document Format (PDF), unless specifically directed otherwise.
 - A. Use the latest version available at time of Purchase Order award.
 - B. Files shall print legibly on 8.5 inch by 11 inch, 11 inch by 17 inch, or 22 inch by 34 inch.
 - C. Title for PDF file: "SRS PO ..."
 - 1. Append the SRS PO number to end of file name.
 - 2. No symbols such as "&" or "," (comma) can be in the pdf file name.
 - D. Include only 1 PO related information per email.
 - 1. Don't send in multiple PO numbers in a single email.
 - 2. Each email is converted to a single Supplier package number and assigned to one PO number.
 - E. Only pdfs can be sent into email account noted below.
 - 1. Excel, Word, Cadd and Tiff formatted files cannot be received.
 - F. Zip files
 - 1. Multiple PDF files related to identified SRS PO are acceptable.
 - 2. Include only PDF files - folders within a zip file are unacceptable.
 - G. Maximum email size limit: 30 megabytes
 - H. Verify each file is virus free.
- 3.6.1.7 Provide formal transmittal of EDR submittal documentation in Adobe Acrobat Portable Document Format (PDF) attached to an email (unless directed otherwise) sent to vendordocuments@srs.gov.
- 3.6.1.8 When paper copies or CADD drawing files are required, transmit as follows:
 - A. Address transmittal letters, EDR submittals, and SDDR correspondence to (unless directed otherwise);
Savannah River Nuclear Solutions, LLC
Document Control Center, Bldg. 773-52A
SRNS Purchase Order No.: _____ (Defined on Award)
SRNS Project No.: _____ (Defined on Award)
Aiken, SC 29808
Attention: _____ (Defined on Award)
 - B. Use black markings on white paper.
 - C. Paper submittals with less than 30% recycled content are acceptable.
- 3.6.1.9 Transmit a paper copy of SDDRs, correspondence letters and all submittal transmittal letters to (unless directed otherwise):
Savannah River Nuclear Solutions, LLC
Building 730-4B
SRNS Purchase Order No.: _____ (Defined on Award)
SRNS Project No.: _____ (Defined on Award)
Aiken, SC 29808
Attention: _____ (Procurement Representative)
- 3.6.2 Electronic CADD Drawing Files – General Requirements
 - 3.6.2.1 Provide when identified in a requirement statement or within the EDR.

3.6.2.2 When required, provide electronic files of drawings in one of the following formats in addition to the formal PDF submittal:

- A. Acceptable formats
 - 1. Bentley's MicroStation Version 8. (preferred)
 - 2. AutoCad Release 2014 or more recent
- B. Provide only 1 (one) drawing page per file.
- C. Use of layers is acceptable.
 - 1. Include all reference files.

3.6.2.3 Verify each file is virus free and indicate the following on each disclabel;

- A. Drawing number(s).
- B. Virus checking application used.
- C. Date of virus definition update used.

3.6.2.4 Identify the following information, at a minimum, on each submittal;

- A. Manufacturer
- B. Model Number
- C. Component Serial Number, if applicable
- D. SRNS Purchase Order Number
- E. Supplier's Order Number

3.6.3 EDR Submittal Process

3.6.3.1 Submit Engineering Documents. (Attachment 5.1)

- A. Submit documents listed on the Engineering Document Requirements form, Attachment 5.1, on or before the submittal schedule identified.
- B. After award of contract, EDR documents submitted by the Supplier in accordance with this specification will be reviewed and processed within 14 calendar days from the date of receipt. The Supplier will be informed of the status of each document as follows:

Status 1 Approved: Work May Proceed. The document does not require changes or additions. Matters remaining to be resolved by the Supplier do not require document changes and can be handled by correspondence.

Status 2 Submit Final Documentation: Work May Proceed. The document is either not suitable for retention or requires certain non-technical changes (inclusion of equipment or tag numbers, addition of shipping notes, etc) to qualify as a final document.

Status 3 Revise and Resubmit: Work May Proceed (subject to resolution of indicated comments). Deviations have been noted, some aspects of the subject matter are incomplete, or other minor technical changes are required to make the item suitable.

Status 4 Revise and Resubmit: WORK MAY NOT PROCEED.

The information delineated on the document is not to be used by the Supplier because it:

- Is of a design that is technically unusable without significant changes,
- Does not meet specified technical requirements (for example, incorrect dimensions, welds not or incorrectly identified), or
- Does not conform to select procurement requirements.

Status 5 Permission to Proceed Not Required. Information delineated on the document need not be reviewed prior to its use by the Supplier. This status is given to those documents for which "Permission to Proceed" is not required provided the documents are suitable for retention.

3.6.3.2 DELETED

A. DELETED

3.6.3.3 Submit revised documents within 14 calendar days from the date of Supplier receipt.

3.6.3.4 Assignment of Status 1 or Status 5 to the Engineering Documents by SRNS does not relieve the Supplier of any part of their obligation:

- A. To satisfy the requirements defined in this specification.
- B. For the correctness of Engineering Documents.
- C. For the adequacy and suitability of material and equipment represented.

3.6.3.5 Notify SRNS prior to changing Status 1 or Status 5 Engineering Documents.

- A. Mark "RESUBMITTAL" on resubmitted documents and include the previous submittal document number provided with submittal review comments.
- B. Submit new electronic files for each resubmittal if original submittal was required to include electronic files.

3.7 Deviations

3.7.1 Supplier Deviation Disposition Request (SDDR) Preparation

3.7.1.1 Prepare a SDDR for each Supplier proposed deviation from the technical or quality requirements of this procurement.

- A. Applies to proposed deviations after award of subcontract.
- B. Use to request material substitution "SRNS accepted equal".

3.7.2 Perform the following for each deviation;

3.7.2.1 Identify SOW or subsequent specification document and revision number.

3.7.2.2 Identify criteria that cannot be met by item and specification document section number.

3.7.2.3 Present explanation for the deviation.

3.7.2.4 Present proposal for resolution of the deviation.

3.7.2.5 Present price and schedule adjustment for the proposed resolution of the deviation.

3.7.2.6 Do not perform work on or install any item for which a SDDR is submitted until a written disposition of the SDDR is received from SRNS.

3.7.2.7 Submit SDDR to SRNS Procurement Representative identified in 3.6.1.9 for disposition.

3.7.3 Nonconformance

3.7.3.1 Identify on a SDDR.

3.7.3.2 Include supporting technical justification when requesting acceptance of a "Use-As-Is" or "Repair" disposition.

3.7.3.3 Attach a copy of the Non Conformance Report (NCR).

3.7.3.4 Submit SDDR with NCR to SRNS Procurement Representative identified in 3.6.1.9 for disposition.

3.7.4 Prior to turn-over

3.7.4.1 Complete the SDDR(s), if any, completely filled out including Supplier QA representative signature / date in accordance with the SDDR instructions.

3.7.4.2 Submit completed SDDR(s).

4.0 ACCEPTANCE OF SERVICES

4.1 Inspection / Examination / Testing

4.1.1 Inspections / Examinations

4.1.1.1 Verify that the modular building structure and systems are fabricated in accordance with SRNS accepted design documentation.

4.1.2 Testing

4.1.2.1 Submit the following testing reports in accordance with Section 3.6.

A. Water Supply Lines shall be tested at 90 psi.

4.2 SRNS Surveillance and Audits (HOLD POINTS)

None Specified.

4.3 Final Acceptance Method

4.3.1 Receipt Activity at SRS will include the following verifications:

4.3.1.1 Quantities of shipped items.

4.3.1.2 Item cleanliness.

4.3.1.3 No physical damage has occurred.

5.0 ATTACHMENTS

5.1 Engineering Document Requirements with Instructions (2 Pages)

5.2 Architectural Concept Floor Plan Examples (14 Pages)

5.3 Telecommunication Backboard Layout (1 Page)

Engineering Document Requirements (EDR)

Proc. Ref. 3E, 1.6

1. Document Category Number	2. PRD Paragraph Reference	3. Document Description	4. Permission to Proceed Required		5. Submittal Schedule	6. Quantity Required		7. Kind of Copies	8. Remarks
			Yes	No		Initial	Final		
11	3.1.2. H.2	Exterior Door Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
11	3.1.9.2.F.1.d	Tankless Water Heater	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
1.3	3.1.12.2.A	Architectural Floor Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	Include Electronic CADD Files
1.3	3.1.12.2. C	Architectural Exterior Elevations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	Include Electronic CADD Files
1.3	3.1.12.2. D	Architectural Schedules	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	Include Electronic CADD Files
6.0	3.1.12.2. E	Warranty of Assembly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
11.0	3.1.12.2. F.1.C	Exterior Personnel Doors and Frames	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
11.0	3.1.12.2. F.2.C	Interior Floor Finishes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
11.0	3.1.12.2. F.2.D	Folding Door/Wall	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
11.0	3.1.12.2. F.2.E	Flame Spread Classifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
10.2	3.1.12.2. F.4.A	Interior Colors Selections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
10.2	3.1.12.2. F.4.B	Exterior Color Selections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
8.0	3.1.12.3.A	Electrical Panel Sizing Calculation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
8.0	3.1.12.3.B	Electrical Panel Schedules	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
1.4	3.1.12.3.C	Electrical Power Plan and Lighting Plan Drawings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	Include Electronic CADD Files
1.4	3.1.12.3.D	Electrical Grounding Details	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
11.0	3.1.12.3.E	Electrical Product Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
1.3	3.1.12.4.A	Mechanical Air Distribution Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	Include Electronic CADD Files
8.0	3.1.12.4.B	Mechanical Equipment Sizing Calculation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	
11.0	3.1.12.4.C	Mechanical Product Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
1.3	3.1.12.5.A	Plumbing Plan Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 Weeks ARO		1	PDF	Include Electronic CADD Files
8.0	3.1.12.6.A	Structural Integrity Calculation- Foundation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
8.0	3.1.12.6.A	Structural Integrity Calculation- Walls and Roof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prior to Shipment		1	PDF	
29	3.1.12.6.B	Shipping Preparation Procedure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2 Weeks Prior to Shipment		1	PDF	
26	4.1.2.1	Water Supply Line Test Reports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10 Days after Completion		1	PDF	
			<input type="checkbox"/>	<input type="checkbox"/>					

Engineering Document Requirements (EDR)

Instructions

Proc. Ref. 3E, 1.6

Purpose The Engineering Document Requirements (EDR) form is prepared by the originator. It establishes a basis for actions required of a Supplier and provides the schedule for the submittal of engineering documents by the Supplier.

Legend

Item	Information Required
1	Enter the Document Category Number (see below).
2	Enter the applicable Procurement Requirements Document (PRD) paragraph reference.
3	Enter Description corresponding to Document Category Number.
4	Permission to proceed with fabrication or other specific processes is marked "Yes", if required.
5	List a milestone after award (e.g., prior to fabrication, prior to test, prior to shipment, or a time frame after award) that the listed document is to be submitted.
6	Enter number of copies required for submittal.
7	Reproducible, Mylar, Vellum, PDF, etc.
8	Enter remarks when appropriate.

Document Category Numbers and Descriptions

1.0 Drawings

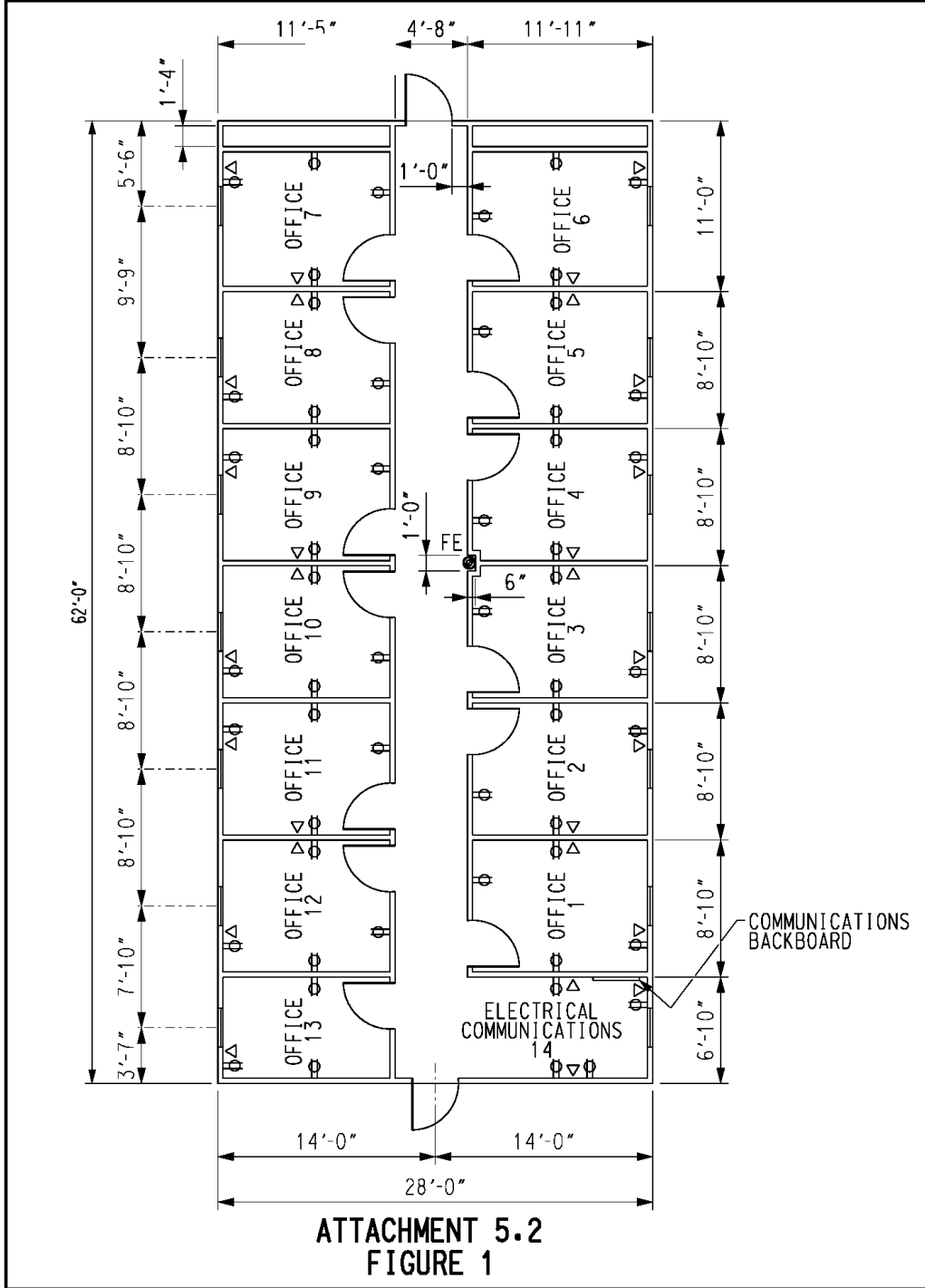
- 1.1 Outline Dimensions, Services, Foundations and Mounting Details – Drawings providing external envelope, including lugs, centerline(s), location and size for electrical cable, conduit, fluid, and other service connections, isometrics and details related to foundations and mountings.
- 1.2 Assembly Drawings – Detailed drawings indicating sufficient information to facilitate assembly of the component parts of an equipment item.
- 1.3 Shop Detail Drawings – Drawings which provide sufficient detail to facilitate fabrication, manufacture, or installation. This includes pipe spool drawings, internal piping and wiring details, cross-section details and structural and architectural details.
- 1.4 Wiring Diagrams – Drawings which show schematic diagram equipment, internal wiring diagrams, and interconnection wiring diagram for electrical items.
- 1.5 Control Logic Diagrams – Drawings which show paths which input signals must follow to accomplish the required responses.
- 1.6 Piping and Instrumentation Diagrams – Drawings which show piping system scheme and control elements.
- 2.0 Parts Lists and Costs – Sectional view with identified parts and recommended spare parts for one year's operation and specified with unit cost.
- 3.0 Complete SRS Data Sheets – Information provided by Supplier on data sheets furnished by SRS.
- 4.0 Instructions
 - 4.1 Erection/Installation – Detailed written procedures, instructions, and drawings required to erect or install material or equipment.
 - 4.2 Operations – Detailed written instructions describing how an item or system should be operated.
 - 4.3 Maintenance – Detailed written instructions required to disassemble, reassemble, and maintain items or systems in an operating condition.
 - 4.4 Site Storage and Handling – Detailed written instructions, requirements, and time period for lubrication, rotation, heating, lifting or other handling requirements to prevent damage or deterioration during storage and handling at job site. This includes shipping instruction for return.
- 5.0 Schedules: Engineering and Fabrication/Erection – Bar charts or critical path method diagram which detail the chronological sequence of activities, e.g., Engineering submittals, fabrication, and shipment.
- 6.0 Quality Assurance Manual/Procedures – The document(s) which describe(s) the planned and systematic measures that are used to assure that structures, systems, and components will meet the requirements of the procurement documents.
- 7.0 Seismic Data Reports – The analytical or test report which provides information and demonstrates suitability of material, component, or system in relation to the conditions imposed by the stated seismic criteria.
- 8.0 Analysis and Design Reports – The analytical data (stress, electrical loading, fluid dynamics, design verification reports, etc.) which demonstrate that an item satisfies specified requirements.
- 9.0 Acoustic Data Reports – The noise, sound, and other acoustic vibration data required by the procurement documents.
- 10.0 Samples
 - 10.1 Typical Quality Verification Documents – A representative data package which will be submitted for the items furnished as required in the procurement documents.
 - 10.2 Typical Material Used – a representative example of the material to be used.
- 11.0 Material Descriptions – The technical data describing a material which a Supplier proposes to use. This usually applies to architectural items, e.g., metal siding, decking, doors, paints, coatings.
- 12.0 Welding Procedures and Qualifications – The welding procedure, specification and supporting qualification records required for welding, hard facing, overlaying, brazing and soldering.
- 13.0 Material Control Procedures – The procedures for controlling issuance, handling, storage, and traceability of materials such as weld rod.
- 14.0 Repair Procedures – The procedures for controlling materials removal and replacement by welding, brazing, etc., subsequent thermal treatments, and final acceptance inspection.
- 15.0 Cleaning and Coating Procedures – The procedures for removal of dirt, grease or other surface contamination, and preparation and application of protective coatings.
- 16.0 Heat Treatment Procedures – The procedures for controlling temperatures and time at temperature as a function of thickness, furnace atmosphere, cooling rate and methods, etc.
- 19.0 UT – Ultrasonic Examination Procedures – Procedures for detecting discontinuities and inclusions in materials by the use of high frequency acoustic energy.
- 20.0 RT – Radiographic Examination Procedures – Procedures for detecting discontinuities and inclusions in materials by x-ray or gamma ray exposure of photographic film.
- 21.0 MT – Magnetic Particle Examination Procedures – Procedures for detecting surface or near surface discontinuities in magnetic materials by the distortion of an applied magnetic field.
- 22.0 PT – Liquid Penetrant Examination Procedures – Procedures for detecting discontinuities in materials by the application of a penetrating liquid in conjunction with suitable developing materials.
- 23.0 Eddy Current Examination Procedures – Procedures for detecting discontinuities in materials by distortion of an applied electromagnetic field.
- 24.0 Pressure Test – Hydro, Air, Leak, Bubble or Vacuum Test Procedures – Procedures for performing hydrostatic or pneumatic structural integrity and leakage tests.
- 25.0 Inspection Procedures – Organized process followed for the purpose of determining that specified requirements (dimensions, properties, performance results, etc.) are met.
- 26.0 Performance Test Procedures – Test performed to demonstrate that functional design and operational parameters are met.
 - 26.1 Mechanical Tests – e.g., pump performance, data, valve stroking, load, temperature rise, calibration, environmental, etc.
 - 26.2 Electrical Test – e.g., impulse, overload, continuity, voltage, temperature rise, calibration, saturation, loss, etc.
- 27.0 Prototype Test Reports – Reports of a test which is performed on a standard or typical examination of equipment or item, and which is not required for each item produced in order to substantiate the acceptability of equal items. This may include tests which result in damage to the item(s) tested.
- 28.0 Personnel Qualification Procedures – Procedures for qualifying welders, inspectors, and other special process personnel.
- 29.0 Supplier Shipping Preparation Procedures – Procedures used by a Supplier to prepare finished materials or equipment for shipment from its facility to the job site.

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
 Spec/Req'n No. A-SOW-G-00019
 Page 1 of 14

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TYPE 1 - Rev 01/13/21

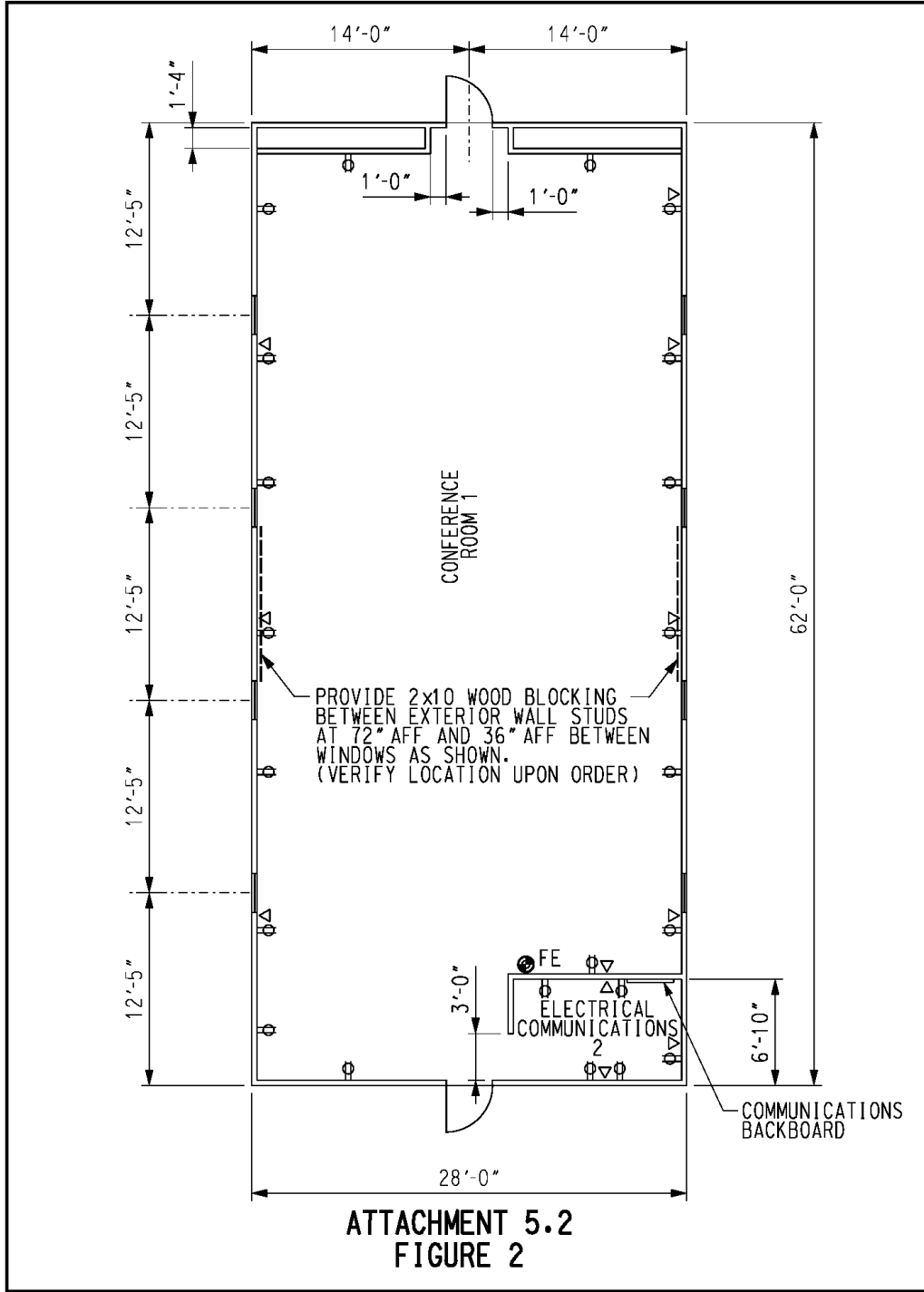


Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
 Spec/Req'n No. A-SOW-G-00019
 Page 2 of 14

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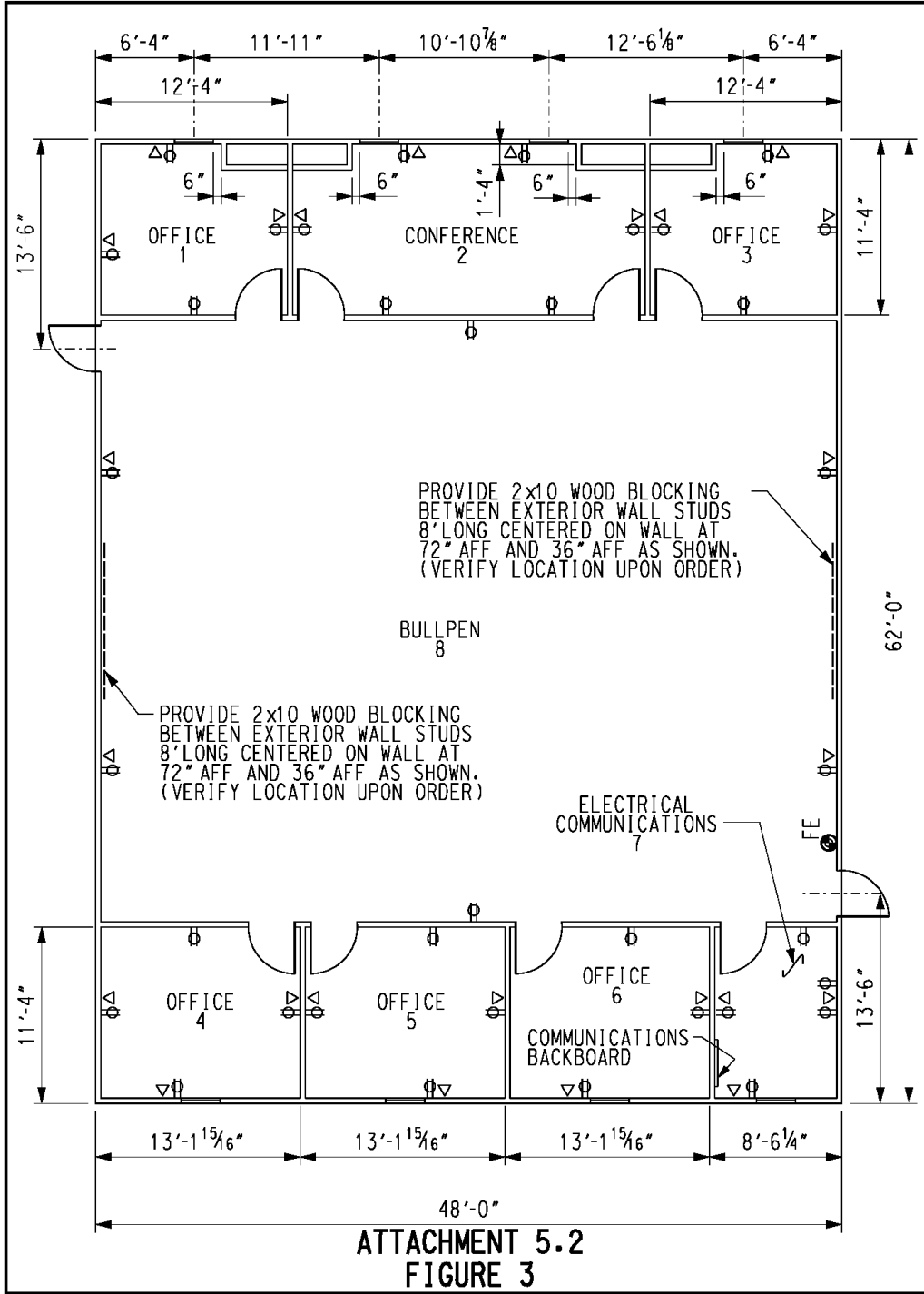
**ATTACHMENT 5.2
FIGURE 2**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
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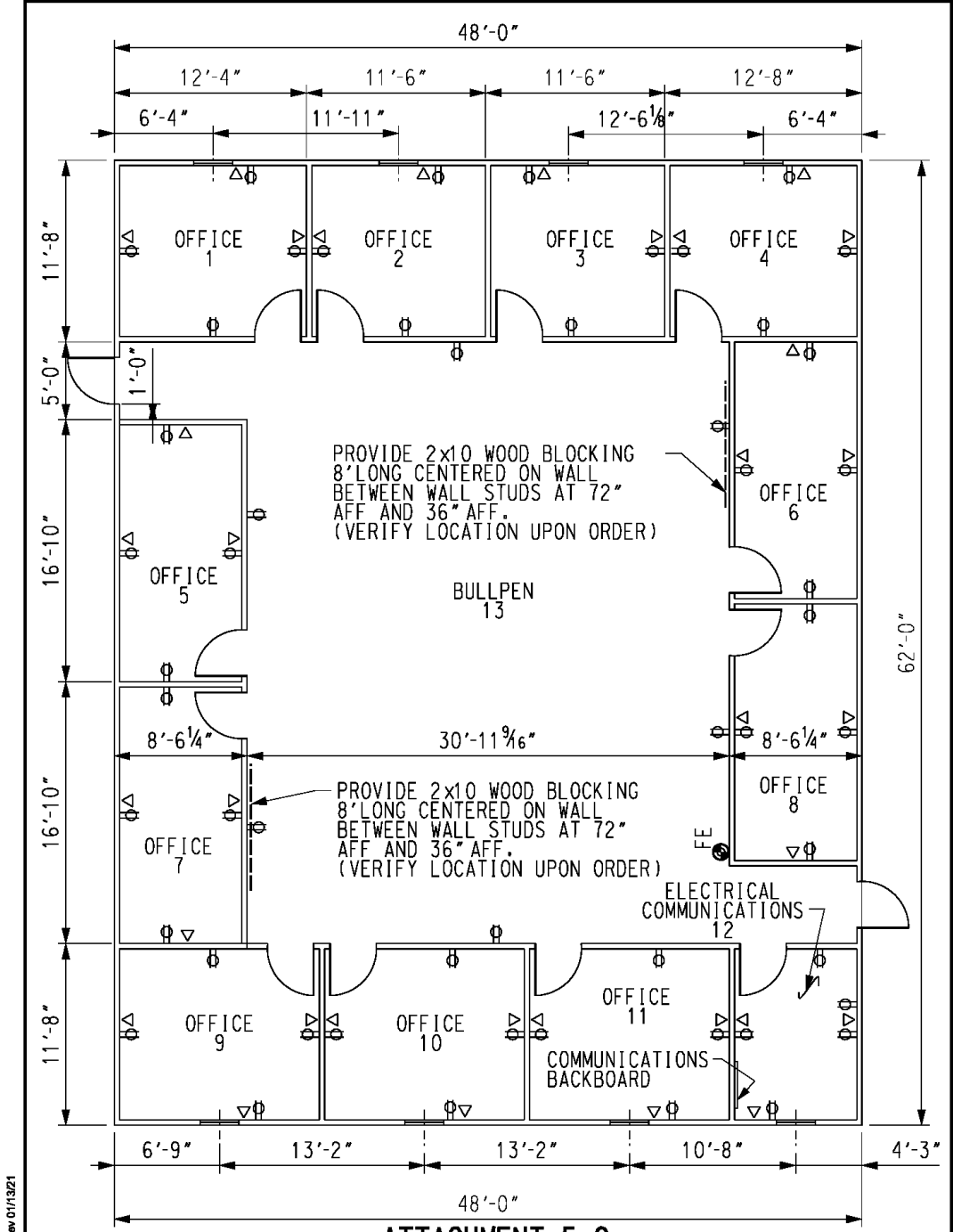
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Architectural Concept Floor Plan Examples

Attachment No. 5.2
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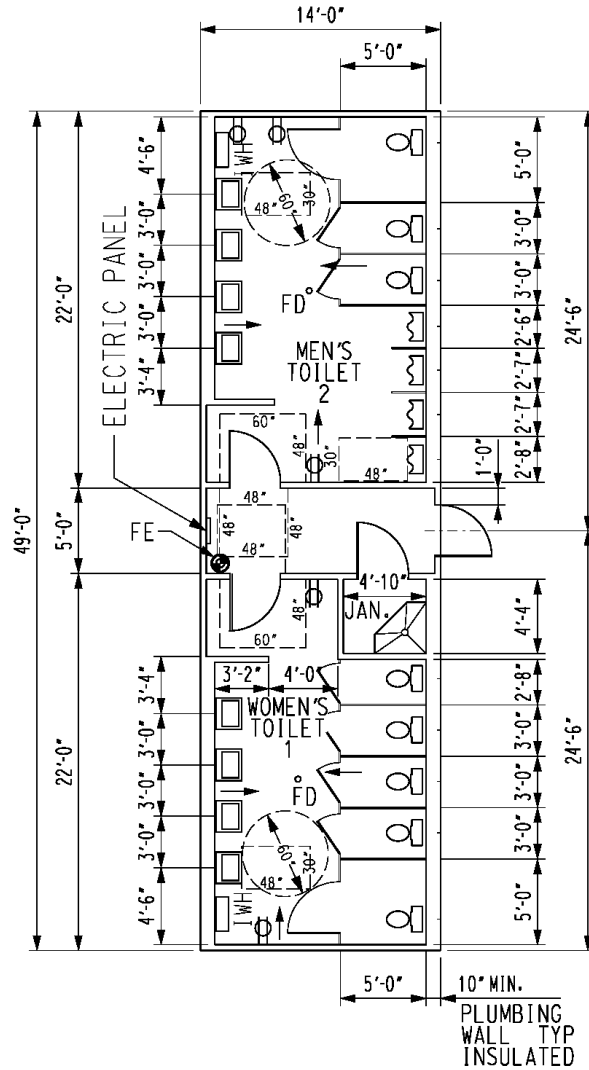
**ATTACHMENT 5.2
FIGURE 4**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
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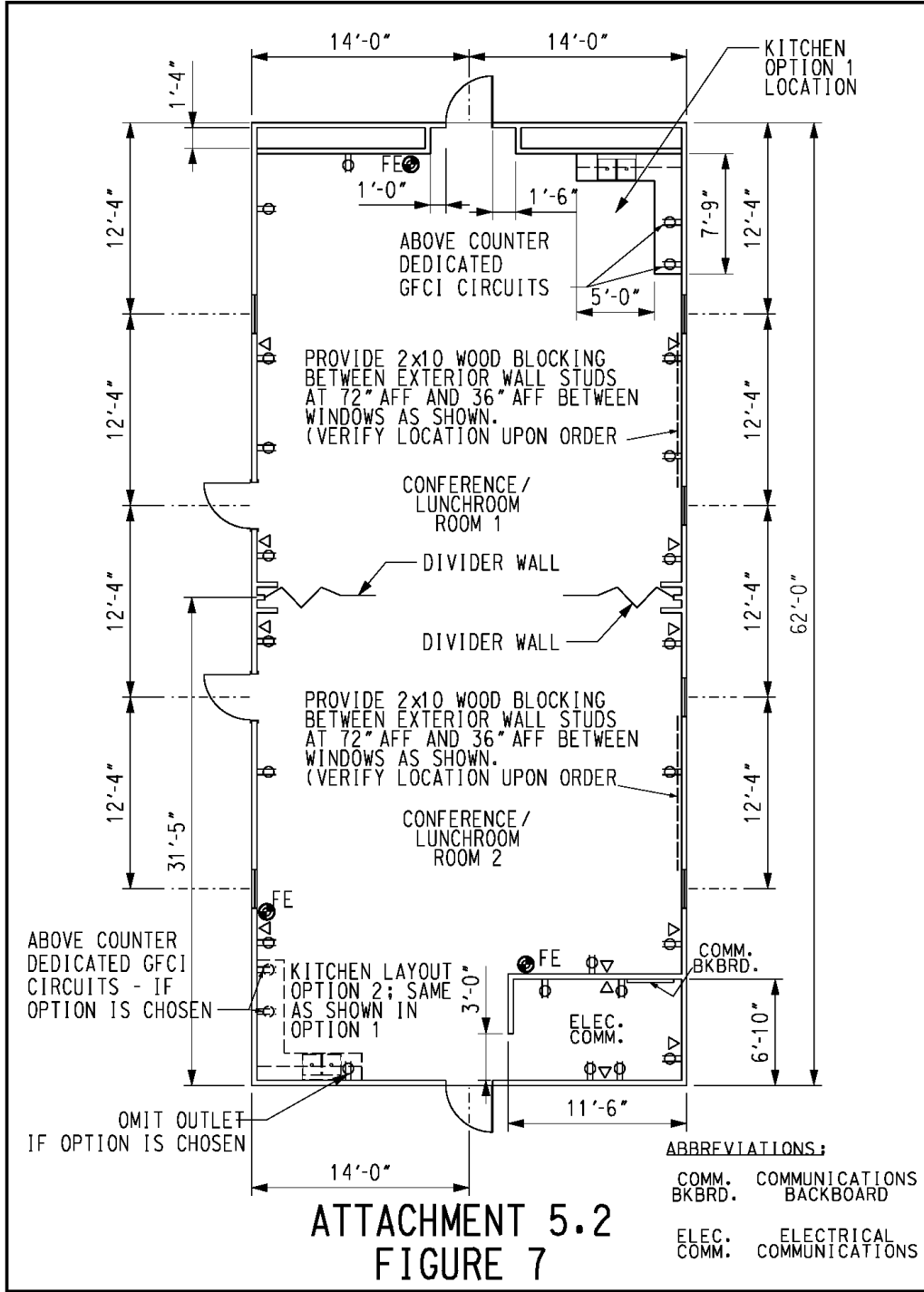
**ATTACHMENT 5.2
FIGURE 6**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
 Spec/Req'n No. A-SOW-G-00019
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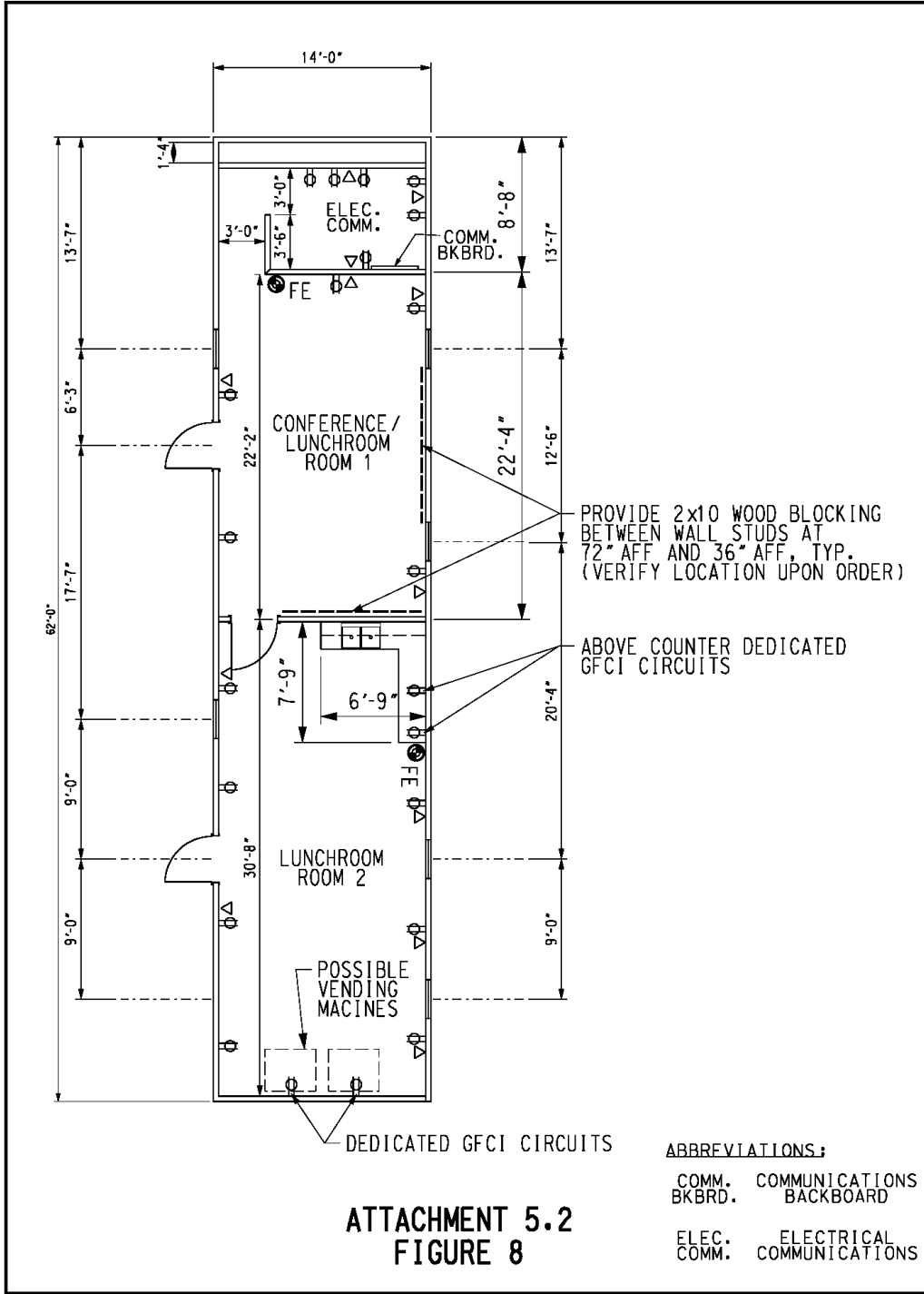
**ATTACHMENT 5.2
FIGURE 7**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
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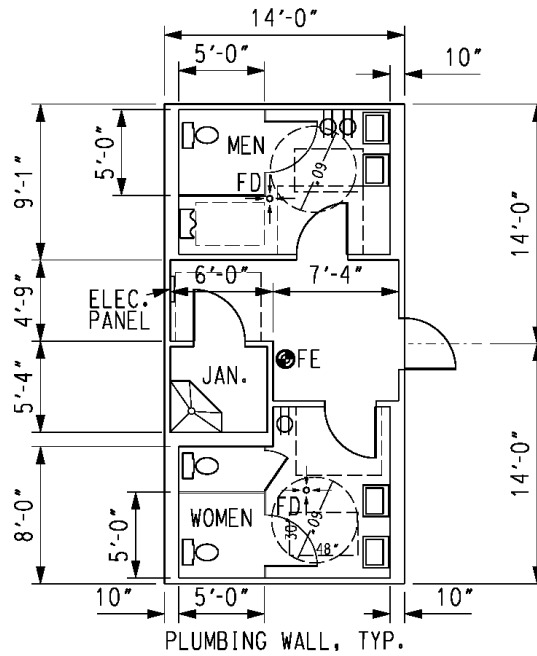
**ATTACHMENT 5.2
FIGURE 8**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
 Spec/Req'n No. A-SOW-G-00019
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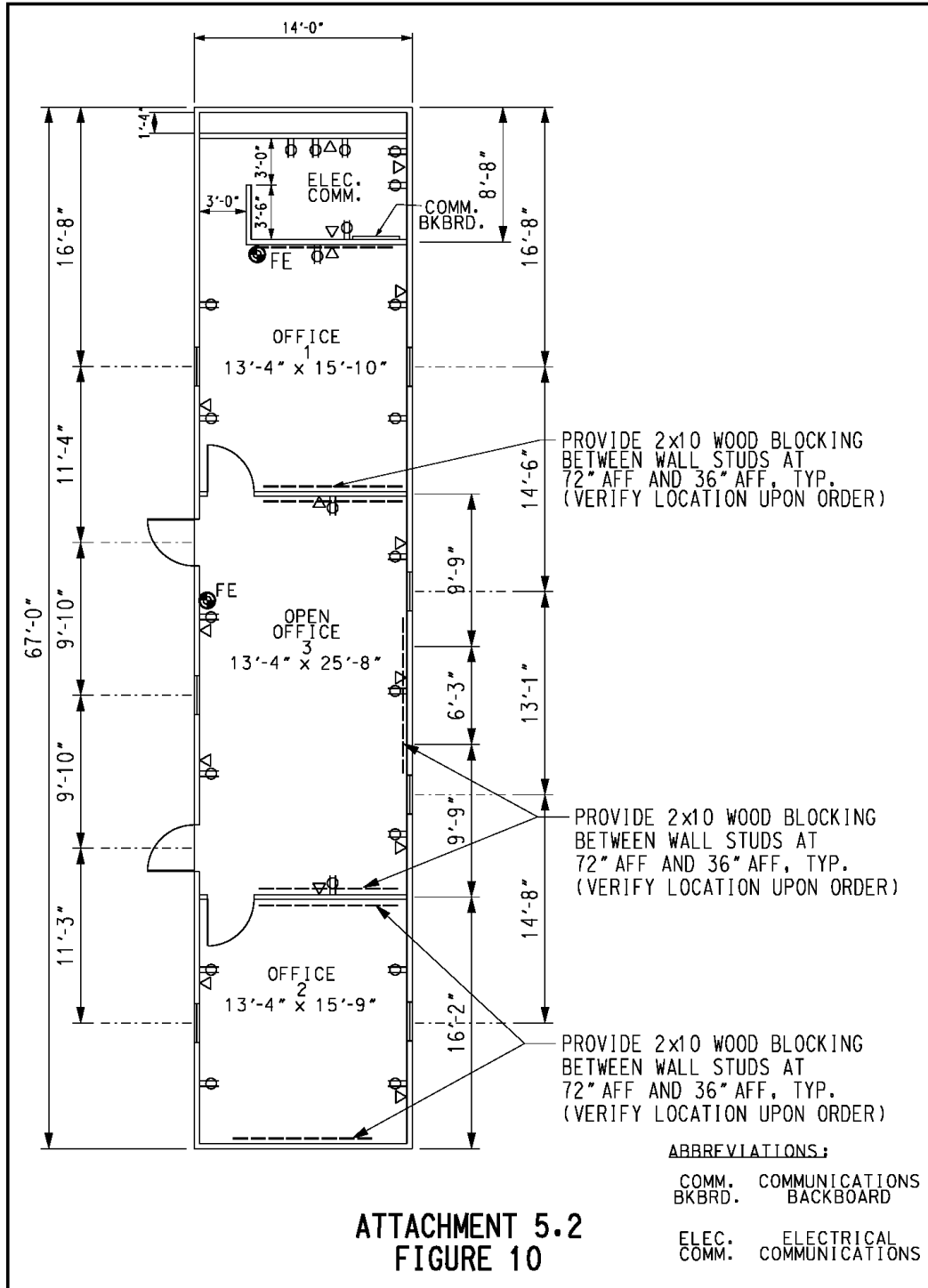
**ATTACHMENT 5.2
FIGURE 9**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
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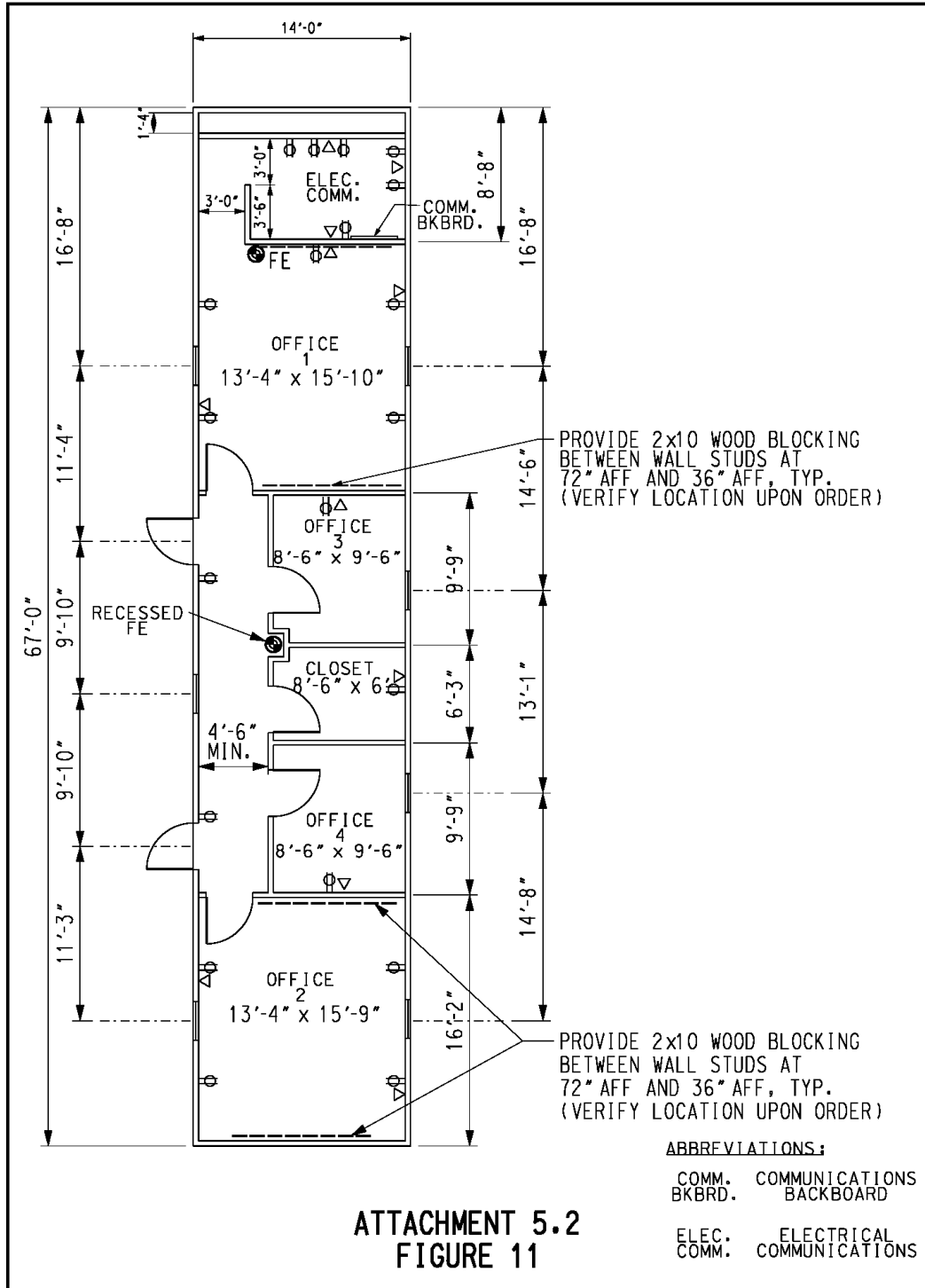
**ATTACHMENT 5.2
FIGURE 10**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
 Spec/Req'n No. A-SOW-G-00019
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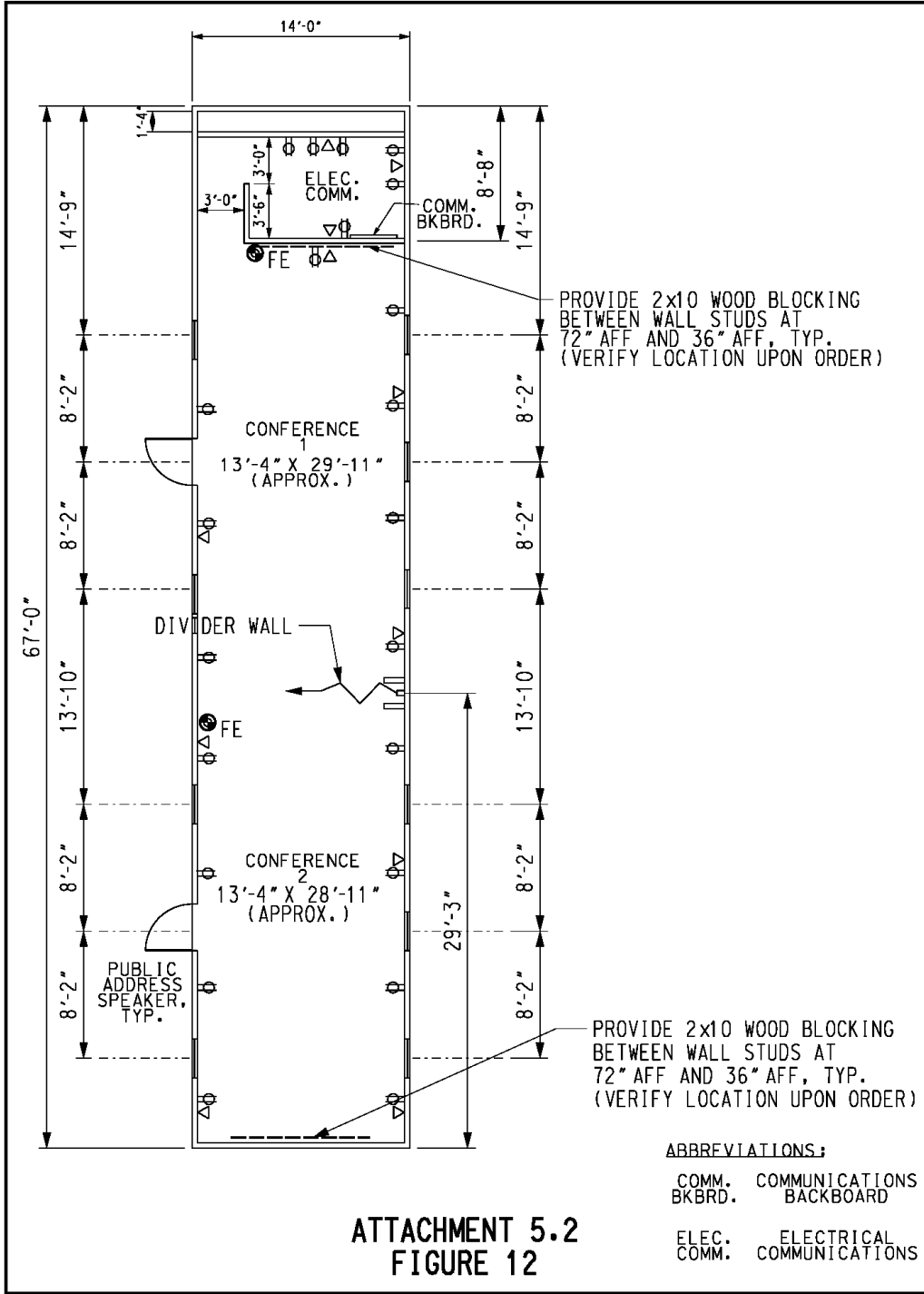
**ATTACHMENT 5.2
FIGURE 11**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
 Spec/Req'n No. A-SOW-G-00019
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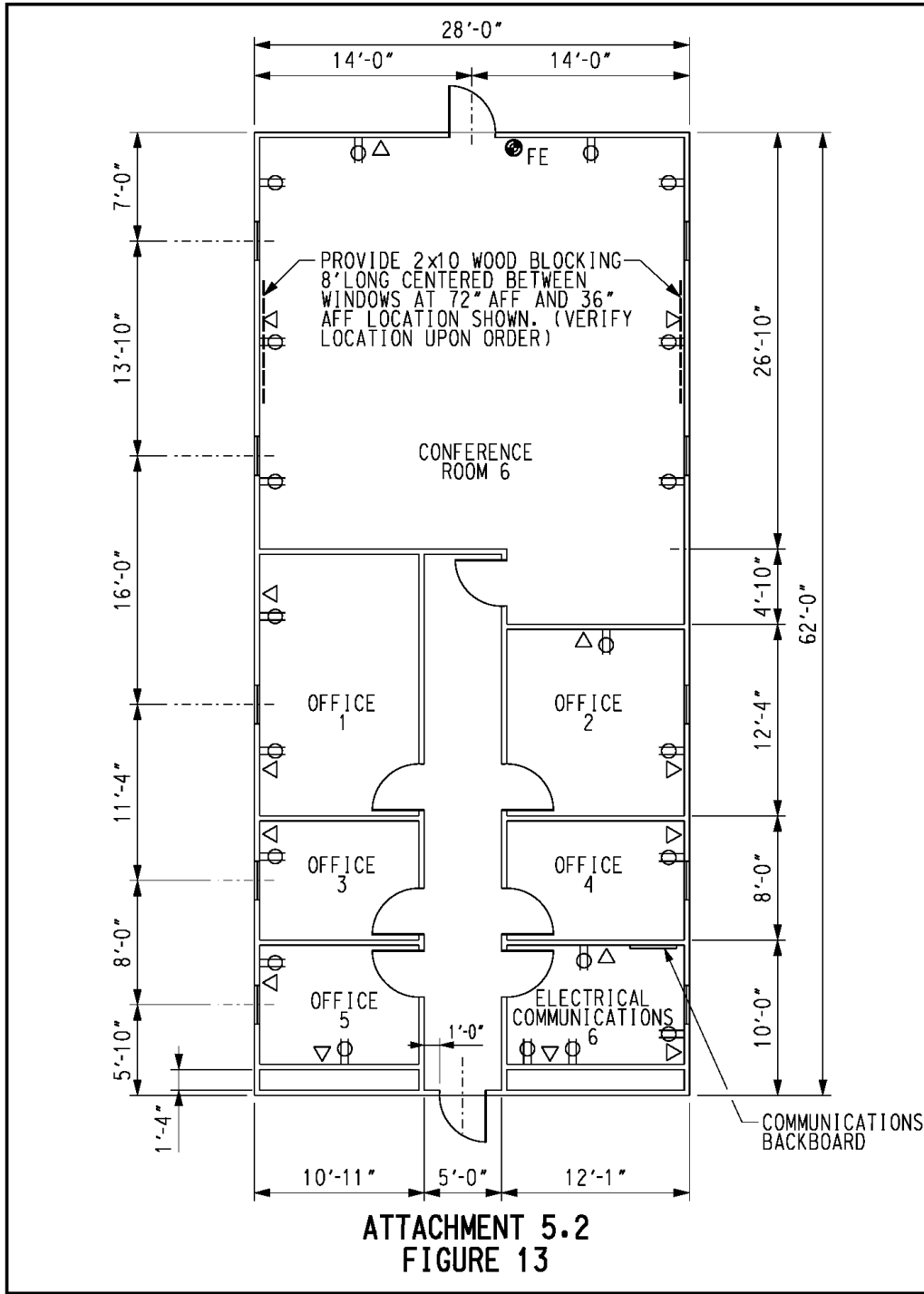
**ATTACHMENT 5.2
FIGURE 12**

Architectural Concept Floor Plan Examples

Attachment No. 5.2
 Revision No. 8
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File Name: TRAILER DRAWINGS.dwg

Plot Date: 7/2/2024

Plot Time: 12:01:44 PM By: m3424

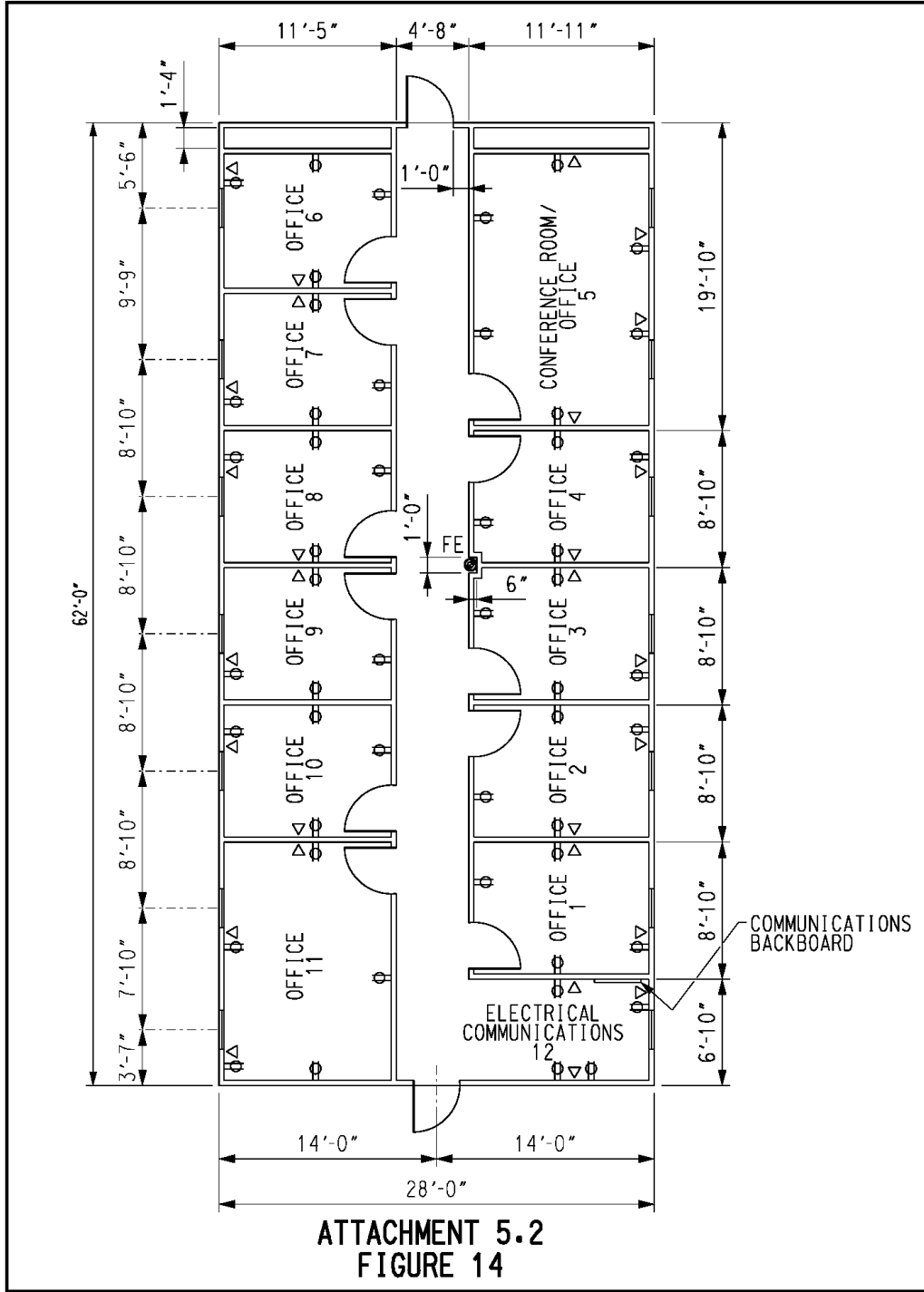
The scale shown on this drawing is only applicable when plotted at 8 1/2" x 11" (actual drawing size)

Architectural Concept Floor Plan Examples

Attachment No. 5.2
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TYPE 1 - Rev 01/13/21



**ATTACHMENT 5.2
FIGURE 14**

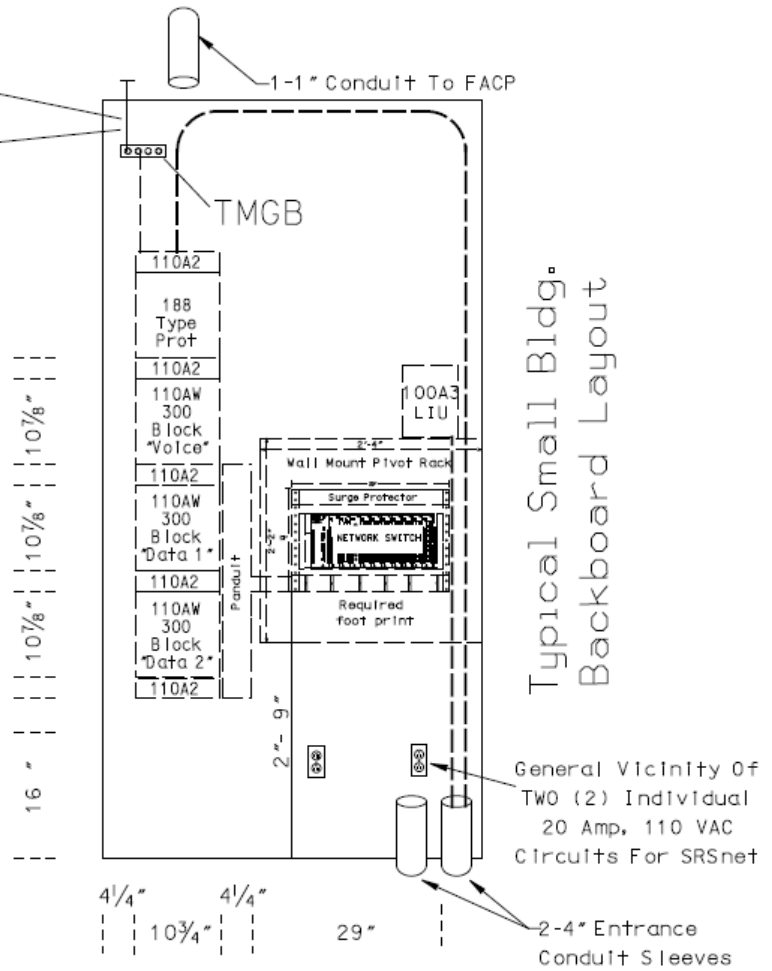
Telecommunications Backboard Layout

#6 Ground Wire To
Main Power Panel
Equipment Ground Bar

#6 Ground Wire

General Installation Notes:

- 1) Top Of Plywood Will Be At Ceiling Height. If Ceiling Height Is Less Than 108" AFF, If Ceiling Height Is More Than 108" AFF, Top Of Plywood Will Be 100" To 108" AFF.
- 2) All Measurements Have A Tolerance Of Plus Or Minus Two Inches. The Actual Field Measurements Shall Be Red-Lined And Documented On the Final Drawings For Accuracy.
- 3) Install 110 VAC, 20 Amp dedicated electrical circuits In single gang receptacle boxes.



Typical Small Bldg.
Backboard Layout

General Vicinity Of
TWO (2) Individual
20 Amp, 110 VAC
Circuits For SRSnet

2-4" Entrance
Conduit Sleeves

Description

This is a sources sought notice for information only. This sources sought is for the purpose of conducting market research to provide data for planning purposes. This sources sought synopsis announcement does not constitute a formal solicitation, and is not a request for proposal, request for quote, invitation for bid, does not obligate the government to award a contract, issue a solicitation, reimburse respondents for any proposal preparation and/or submittal costs, nor does its issuance in any way restrict the Government as to its ultimate acquisition approach. The Government will not pay for any materials provided in response to this notice and submittals will not be returned to the sender.

This sources sought notices is not a solicitation nor will a solicitation package be issued as a result of this announcement, and no award shall be made as a result of this announcement. In the event that a solicitation is developed, it will be assigned a formal Request for Proposal (RFP) number issued via email.

The Department of Energy has awarded a Prime Contract to Savannah River Nuclear Solutions LLC (SRNS) for the Management and Operations (M&O) of the Savannah River Site (SRS) near Aiken, South Carolina. As the M&O Prime Contractor at SRS under the landlordship of the National Nuclear Security Administration (NNSA), SRNS is responsible for multiple projects to include but not limited to the Tritium Finishing Facility (TFF), the Surplus Plutonium Disposition (SPD) Project, Tritium Production, Waste Management and Chemical Separations. Additionally, SRNS is responsible for the maintenance and upkeep of site infrastructure such as buildings, roads, parking lots, HVAC systems, electrical infrastructure, mobile office trailers, railroad inspections and so forth.

SRNS intends to award one or more Basic Ordering Agreements (BOAs) to multiple subcontractors to provide general construction services to ensure the continuity of SRS' critical missions. The contractor shall provide all materials, staff, tools, and equipment necessary for the work described in the Statements of Work Listed below corresponding to their attachment number:

- 1) **Pre-Manufactured Modular Office, Conference and Restroom Buildings - NAICS Code 321991**
 - a. FY25 approximately \$3.6M
 - b. FY26 approximately \$1M
 - c. Option Year 1 - \$1.2M
 - d. Option Year 2 - \$1.2M
 - e. Option Year 3 – 800K

Response to this sources sought notice is mandatory in order to be included in upcoming solicitations.

RESPONSES DUE

Responses are requested no later than **19 February 2025 at 10:00 AM EDT**. Direct expression of interest as well as required documentation should be submitted in writing, via email, to Amanda Elgin at amanda.elgin@srs.gov.

RESPONSE SUBMISSION INFORMATION

All potential sources with the capability to provide the requirements referenced in this sources sought are invited to submit, in writing, sufficient information within the page limitations listed below. This information should demonstrate the respondent's ability to fulfill the technical, delivery, and support requirements and be responsive to the technical questions in this RFI as indicated below. We will not answer technical questions or provide additional technical information at this time via this sources sought notice.

Potential offerors shall identify the SOWs within this sources sought notice for which they are interested in receiving a future solicitation and include a coversheet for each SOW. Individual responses to this sources sought notice shall include the following for each SOW your firm is requesting to be included in:

1. A cover sheet which includes:

- Company Name
- Address
- Primary Point of Contact
- E-mail Address
- Phone Number
- DUNS Number
- Primary Business and Market Areas
- Business Size and Socioeconomic Status
- Declare if the offeror would be participating as a primary contractor, a joint venture or partnership or other as applicable to their submission.
- Defense Contract Audit Agency (DCAA) audit status for cost-reimbursable (e.g. time and material) contract types

2. Relevant Construction Project Experience (four (4) page limit):

- Offerors must verify experience commensurate with the statements of work listed within this sources sought notice. The potential offerors need to demonstrate that they possess, within the last five years, trailer manufacturing experience similar to that described in this specified source sought category.
- Experience described above needs to include the offeror's role (for example - primary contractor or subcontractor). Each project experience needs to include the contract number, the US Agency or private company that awarded the contract and contract monetary value.
- Experience working under BOAs or Indefinite Delivery, Indefinite Quantity (IDIQ) type contracts as applicable.
- Experience working with the Department of Energy (DOE) and / or the Department of Defense (DOD) or other federal entities as applicable.
- Ability to provide all required design and engineering services, manpower, and materials to fabricate and deliver new buildings or to renovate existing ones.

Period of Performance

The intended period of performance is one (1) base year with four (4) option periods at one year each. Actual period of performance will be established at the issuance of a solicitation (if any).