



STATEMENT OF WORK

FTFA 24-MM04

**Remodel Restrooms, Breakroom, Secure Space
B1312**

Eglin AFB, FL

(20 Aug 2024)



96th Civil Engineer Group

Remodel Restrooms, Breakroom, Secure Space B1312

FTFA 24-MM04

Eglin CEG Drawing/Specification:

Eglin AFB, FL

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1. BIDDING SCHEDULE

CLIN Item No.	Description	Amount
BASE BID		
0001	Design and Construction of SOW	\$
0002		\$
BID OPTION		
0003	Construction of Plumbing System	\$

1-1. General Information of Bid Schedule

This section comprises an explanation of the bid items identified in the Bidding Schedule. This section is a general scope of work for the bid items described in the Bidding Schedule and is not intended to be all encompassing in the description. All work specified herein shall be accomplished in accordance with the procedures prescribed in the technical provisions of the specifications, the plans/details as shown on the contract drawings, and required local, state, and federal codes. The contractor shall bid each type of work under the applicable bid item. Measurement for payment will not be made. Payment described for the various bid items will be full compensation for all labor, materials, and equipment required to complete the work. Compensation for any item of work described in the contract but not listed in the bid schedule shall be included in the payment for the item of work to which it is made subsidiary. See “Government Pre-design Analysis”, and design information for additional details regarding each bid item.

1-2. Explanation of Bid Items

1-2.1. Design of SOW

All costs in connection with the design of the items listed under the “Construction of SOW” section of Bid Schedule.

1-2.2. Construction of SOW

All costs in connection with furnishing all labor, materials, tools, equipment, and associated incidentals necessary to complete the following:

- Site Preparation – Selective demolition and proper disposal of all waste offsite.
- Renovation – Ceiling, flooring, interior wall, and etc.
- Renovation – Offices, breakroom, and restrooms
- Construct – Second floor women’s restroom, First floor office.
- Construct – Second floor emergency egress and exit stairs.
- Electrical System Upgrade
- Second Floor Communication System Upgrade

1-2.3. Construction of Plumbing System

All costs in connection with furnishing all labor, materials, tools, equipment, and associated incidentals necessary to complete the roofing system replacement. The work is described in section 3-10.2 of this SOW. All cost included to complete the work shall be entered as a Bid Option.



Figure 1 Bldg. 1312 Location

----- END OF SECTION -----

2. GENERAL INFORMATION

2-1. Project Information

FTFA 24-MM04, Remodel Restrooms, Breakroom, Secure Space at Bldg. 1312, hereinafter referred to as the “Project”, is a design-build (D/B) project. This project is to renovate Bldg. 1312 with replacement of ceiling, flooring, doors, and wall finishes. Renovate breakrooms, restrooms, and conference rooms. The project will comply with applicable DoD, Air Force, and base design rules and standards.

Work shall comply with latest IC Tech Spec – for ICD/ICS 705, NFPA 101 Life Safety Code, UFC 3-600-01, UFC 1-200-01, International Building Code (IBC), International Existing Building Code (IEBC), and ASCE 7-22.

Detailed description of the work is provided in Section 3.10-2.

2-2. Period of Performance

The Contractor shall commence design under this portion of the contract within eight (8) calendar days after the date the Contractor receives the Notice to Proceed.

The entire design and construction of the facility shall be completed and ready for use not later than **270 calendar days** after the receipt of the notice to proceed. This time stated for completion shall include final cleanup of the premises.

2-3. Liquidated Damages

If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay to the Government as liquidated damages, the amount is to be stated in the contract.

If the Government terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the Government in completing the work.

If the Government does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted.

2-4. Project Delivery Method

Project delivery method will be Design-Build (D-B) method where design and construction are performed under the same contract with one prime contractor. This contract statement of work (SOW) covers the Architect-Engineer (A-E) design, and Construction requirements.

2-5. D/B Price Proposal

Provide a cost proposal with detailed breakdowns in the 50 Division Master Format for each bid item. A price shall be provided on all numbered items of the bidding schedule. Proposal must contain sufficient detail of costs that include but not limited to; material, labor, equipment, subcontracts, overhead and extended overhead costs, bonds, and profit.

2-6. Design Submittal Review

For each design review submittal, the Contractor will be furnished comments from personnel of the 96 Civil Engineer Group and from other concerned agencies involved in the review process. The review will be for conformance with the technical requirements of the solicitation and compliance with any previous comments. The Government will take fourteen (14) calendar days to review and comment on each unreviewed design submittal including the 100% unreviewed submittal. The last two weeks of the calendar year shall not be considered when scheduling review times or meeting times. If the Contractor disagrees technically with any comment or comments and does not intend to comply with the comment, they shall clearly outline, with ample justification, the reasons for noncompliance within five (5) days after receipt of these comments in order that the comment can be resolved. The disposition of all comments shall be furnished in writing within 5 working days after the review meeting. The Contractor is cautioned in that if they believe the action required by any comment exceeds the requirements of this contract, that they should take no action and notify the Contracting Officer in writing immediately.

Review comments will be written using Design Review and Checking System (DrChecks). DrChecks is an Internet based computer program. DrChecks is free of charge. Comments will be written in DrChecks. The Contractor shall annotate the comments using DrChecks and the Government will backcheck the comments. For more information on DrChecks, go to <https://www.projnet.org/projnet/binKornHome/index.cfm>

Review conferences will be held for each design submittal at Eglin AFB, FL. The Contractor shall bring all personnel that developed the design submittal to the review conference. These conferences will take place the week after the fourteen (14) day review period on a mutually agreed upon day. The Contractor shall be responsible for writing and distributing minutes on each submittal review meeting within 7 calendar days of the meeting. Time for design submittal reviews and conferences will be included in the Contractor's schedule.

If a design submittal is over one (1) day late in accordance with the latest design schedule and the Contractor has not given the COR a one (1) week written notice that the submittal will be late, the Government review period will be extended 7 days. The review conference will be held the week after the extended review period on a mutually agreed upon day.

During the design review process, comments will be made on the design submittals that will change the drawings and specifications. The Government will make no additional

payments to the Contractor for the incorporation of comments. Review comments are considered part of the design/build process.

If the Contracting Officer requests a design change after the Design Complete Submittal drawings and specifications have been submitted, then this shall be considered a change and proper payment will be made by the Contracting Officer.

If a design submittal is not of the quality level required for the stage of design submitted, the Government has the right to return the submittal to the Contractor so the design quality can be increased and request a resubmittal. The review time will begin when the submittal received is of the quality level required for the stage of design submitted by the Government. Returned incomplete submittals will not be the basis of a claim by the Contractor for additional time or money.

2-7. Construction Submittal Review

The Contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Units of weights and measures used on all submittals are to be the same as those used in the contract drawings. Each submittal is to be complete and in sufficient detail to allow ready determination of compliance with contract requirements. The Prime Contractor is to prepare, review, and stamp with Contractor's approval all submittals prior to submitting for Government approval. Use transmittal form AF Form 3000: Material Approval Submittal, for submitting in accordance with the instructions on the reverse side of the form. Once received from the Contracting Officer at 96 CEG, the government will have 14-days to review submittals and return AF Form 3000 to the Contractor.

2-8. Time Extensions for Unusually Severe Weather

This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the contract clause entitled "Default: (Fixed Price Construction)". In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

- (1) The weather experienced at the project site during the contract period must be found to be unusually severe. Unusually severe weather is defined as hurricanes, floods, tornados, or earthquakes.
- (2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.
- (3) The Contractor's progress schedule must reflect completion of the project within the specified contract duration including all weather except that as defined as unusually severe.

The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations.

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The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

Monthly anticipated adverse weather delay. Work days based on (5) day work week.											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5	5	5	3	3	5	8	6	5	3	4	5

Upon acknowledgement of the Notice to Proceed and continuing throughout the contract, the Contractor will record on its daily Contractor Quality Control report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day.

The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in above paragraph, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the Contract Clause entitled "Default (Fixed Price Construction)".

2-9. Schedule

Within 7 days after NTP is acknowledged, D/B Contractor shall provide a preliminary schedule showing the entire 270 contract days of contract activities. Within 14 days, D/B Contractor shall provide a detailed schedule of the entire contract that demonstrates a reasonable and realistic sequence of activities which represent all work through the entire contract performance period.

Prepare for approval a Project Schedule, as specified herein, pursuant to FAR Clause 52.236-15 Schedules for Construction Contracts. Show in the schedule the proposed sequence to perform the work and dates contemplated for starting and completing all schedule activities. The scheduling of the entire project is required. The scheduling of design and construction is the responsibility of the Contractor. Contractor management personnel must actively participate in its development. Designers, Subcontractors and suppliers working on the project must also contribute in developing and maintaining an accurate Project Schedule. Provide a schedule that is a forward planning as well as a project monitoring tool. Use the Critical Path Method (CPM) of network calculation to generate all Project Schedules. Prepare each Project Schedule using the Precedence Diagram Method (PDM).

Develop the Project Schedule to the appropriate level of detail to address major milestones and to allow for satisfactory project planning and execution. Failure to develop the Project Schedule to an appropriate level of detail will result in its disapproval. The Contracting Officer will consider, but is not limited to, the following characteristics and requirements to determine appropriate level of detail:

- Activity dates and durations
- Procurement activities
- Submission of shop drawings
- Submission of DD1354 data
- Construction start date
- Milestones
- Major inspections
- Correction of punchlist from Contractor's pre-final inspection
- Correction of punchlist from Government's pre-final inspection
- Design and Permit Activities
- Submission, review, and acceptance of submittals (design and construction)
- Submission of O&M's and as-builts
- Contract start and end date
- Float
- % Complete
- Contractor's pre-final inspection
- Government's pre-final inspection
- Final Inspection

D/B Contractor shall provide an updated project schedule on a regular basis, monthly at a minimum. Update the schedule to include detailed construction activities as the design progresses, but not later than the submission of the final unreviewed design submission for each separate design package. The Contracting Officer may require submission of detailed schedule activities for any distinct construction that is started prior to submission of a final design submission if such activity is authorized.

Update information including Actual Start Dates (AS), Actual Finish Dates (AF), Remaining Durations (RD), and Percent Complete is subject to the approval of the Government at the meeting.

AS and AF dates must match the date(s) reported on the Contractor's daily report for an activity start or finish.

----- END OF SECTION -----

3. DESIGN

3-1. Design Criteria

The Contractor shall prepare complete construction documents for all work designed as required by the RFP. The construction documents to be prepared include, but are not limited to construction drawings, specifications, submittals, and design analysis for the basis of design. The project shall be designed and constructed in accordance with the criteria contained herein and using industry standard materials and efficient practices. The building/structure design and the materials selected shall be high quality, durable and easily maintained. The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications and other documents or publications upon which the design and construction are based.

Design and construction criteria shall include but not be limited to, the requirements given by the latest editions of standards, construction codes, and Eglin specific guides. When a conflict exists, it is the designer's responsibility to select and use the most stringent design and construction requirements.

Eglin Specific Criteria shall be incorporated in the design specifications and construction contract documents. This includes but not limited to Eglin Architectural Compatibility Plan, Eglin Engineering Design Manual, Eglin Comm Squadron Design Guide, ASUS design drawings and specifications, and CHELCO's design drawings and specifications.

Equipment, Materials, Products, and Supplies – Specify and/or note on the drawings that all equipment, materials, products, and supplies installed in this project shall be newly manufactured of the latest version unless otherwise specified herein. Replacement parts shall be standard and readily available through commercial means. Discontinued products shall not be specified or noted as a basis of design.

3-2. Drawings and Specifications

This project design shall be accomplished using English units. Drawings shall be created in AutoCAD. Specifications shall be created from Unified Facilities Guide Specifications (UFGS) 50 division masters in SPECSINTACT format. See "Design Information" paragraph for detailed drawing and specification requirements.

The contractor shall provide Architectural, Structural, Civil, Mechanical, and Electrical drawings as necessary. Architectural, Structural, and Civil drawings shall be provided in the event of any modifications to the facility or grounds around the facility. Mechanical drawings shall include equipment schedules, controls schematics (to include sequence of controls), and layout plans. Electrical drawings shall be provided to show all electrical connections necessary for equipment installation.

3-3. Design Analysis

The A-E shall prepare and submit a design analysis. The design analysis is a written explanation of the project design and is expanded and revised for each submission. The

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design analysis shall contain a summary of the criteria for the history of the project design, including criteria designated by the customer, letters, codes, references, design review comments/responses, design review conference minutes, and pertinent research. The justification for each major selection and design decision shall be clearly stated. Design calculations, computerized manual shall be included in the design analysis. Narrative descriptions of design solutions shall also be included. Diagrams and sketches to convey design concepts may be provided to illustrate all written material.

The design analysis shall also contain the following documents, as applicable:

- Permits
- Sustainable Design and Development

3-3.1. Environmental Permits

The A-E is responsible to determine and prepare signature ready documents for all environmental permits including storm water if applicable. Contact the 96 CEG Environmental Compliance POC for permit consultation.

In the design analysis, list all required permits by title, permit number or form number, permitting agency, effective date, and expiration date. Show signature responsibility (Government, designer, or construction contractor), fee required, and days required to obtain. Provide a statement if permits are not required.

If permits are required, specify requirements in the appropriate UFGS specification sections (e.g., Section 01 11 00 Summary of Work and/or Section 01 57 19 Temporary Environmental Controls) and provide a coordination note on the drawings.

3-3.2. Sustainable Design and Development

No project specific sustainable design and development (SDD) criteria or rating level has been determined or is required for this project. Integrate low/no cost SDD approaches into the design where practical.

3-4. Construction Schedule

The A-E is not required to provide an independent construction schedule. Instead, the A-E will include UFGS Section 01 32 01.00 10 Project Schedule into construction contract specifications.

3-5. Construction Submittal Register

The Contractor shall develop construction submittal requirements required during construction as part of the design phase of the contract. This shall be done by the Contractor's Designer of Record by producing a Contractor Submittal Register at each submittal during design. A submittal register shall be prepared for each section of the specifications for the submittal requirements of that section. The Contractor's Designer of Record shall be responsible for listing all required submittals necessary to ensure the project requirements are complied with. The Register shall identify submittal items such as shop drawings, manufacturer's literature, certificates of compliance, material samples,

guarantees, test results, etc. that the Contractor shall submit for review and/or approval action during the life of the construction contract. SPECSINTACT software has an automated feature to produce this document. If alternate specification software is approved for use, the A-E shall manually prepare and submit AF Form 66 or approved electronic equal.

3-6. Construction Safety

The A-E shall include UFGS 01 35 26 Governmental Safety Requirements into construction contract specifications.

3-7. Design Quality

The A-E shall be responsible for the professional quality, technical accuracy, and coordination of all drawings, specifications, code compliance, and other documents or publications upon which the design is based. The engineering features of the work (architectural, structural, environmental, civil, etc.) shall be accomplished, reviewed, and approved by engineers and architects who are licensed professionals with experience to practice in their respective professional field by any State in the United States. Design Drawings shall be sealed and signed by all Designers of Record.

All design documents shall be well prepared, completed, and accomplished in accordance with the best of professional practice to show clearly and concisely the type and extent of work to be performed.

The D/B Contractor Team shall investigate the existing site conditions to perform the design analysis. Pertinent notes and calculations shall be organized, readable and included in the formal design analysis submittal. After the initial site visit, any concerns or questions shall be in writing and directed to the Contracting Officer with a copy to the Project Manager.

3-8. Design Errors or Deficiencies

The provisions of the contract clause entitled "Responsibility of the Architect Engineer Contractor" will be fully enforced by the Government. Of note are the D/B Contractor responsibilities noted below:

- The D/B Contractor is completely responsible for the professional quality, technical accuracy, and coordination of all designs, drawings, specifications, and other work or materials produced and furnished by his own staff and that of consultants and will be required to correct or revise any errors or deficiencies in their work, notwithstanding any review, approval, acceptance, or payment by the Government.
- Corrections and changes resulting from review of the D/B Contractor's completed work will not be made by the Government but will be returned to the D/B Contractor for correction. Further, the D/B Contractor shall be liable to the Government for damages to the Government caused by negligent performance by the D/B Contractor. These responsibilities apply equally to any consultant used by the D/B Contractor and

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in no way relieve the consultant from a similar responsibility and accountability to the D/B Contractor.

- During construction, the D/B Contractor shall provide an evaluation of any problem resulting from what the Government considers to be a design error or deficiency. The evaluation will be provided within 10 days of notification by the Government and will be in the following format:

Problem: Provide a brief description of the problem and the status of the construction at the time of its discovery.

Analysis: Provide a complete and detailed analysis of the problem. Background facts such as circumstances, conditions, dates, personnel involved, and cost data should be included if pertinent. Design conflicts, errors, omissions, and/or ambiguities contributing to the problem should be identified. Describe recommended corrective actions. Attach sketches or drawings if appropriate.

D/B Contractor Evaluation: Provide the rationale and justification for whether or not the problem should be considered a design deficiency.

3-9. Deviations

Deviations from the requirements given in this Statement of Work shall be allowed only at the convenience of the Government. If at any time the D/B Contractor feels that it will not be possible to meet these requirements, he/she shall notify the Contracting Officer in writing, immediately, with reasons as to why the requirements may not be met.

3-10. **Government Pre-design Analysis**

This section summarizes existing conditions, preliminary/alternate design approaches, and provides general design requirements for the major disciplines. The discipline breakdown is for ease of reference only and may not reflect the actual work organization.

3-10.1. Existing Conditions

The following was observed on the Government's initial site visit. A thorough assessment of the existing conditions will be required of the D/B Contractor before project award.

- Building 1312 is located on Eglin Air Force Base. The facility was built around 1967. Most recent asbestos survey showed no asbestos was observed in the tile, and there is no lead-based paint present in the facility. All above ceiling wrapped pipes were abated in 1999.

3-10.2. **Design Considerations & Requirements**

This section covers considerations for the design of each scope of work line item. D/B contractor shall provide all designs in accordance with latest applicable design standards to include but not limited to; Unified Facilities Criteria (UFC), DoD Building Code, Florida Building Code, National Electrical Code (NEC), NFPA 70E, Air Force

Instructions (AFI), Eglin Architectural Compatibility Plan, Eglin Engineering Design Manual, Eglin Comm Squadron Design Guide, and CHELCO's design drawings and specifications.

The design and construction of this project includes the following.

Overall Interior Renovation:

- Remove and replace all ceiling tiles and light fixtures throughout the building.
- Remove and install new base molding. Install chair rail in the hallways, and Commander's office.
- Replace exterior carpet at front and rear entry.
- Replace all office space flooring throughout facility with carpet tiles in all offices, open work areas and the conference room. Install ceramic tile in the restrooms. (Customer will select tile from available options through SABER PM)
- Install LVP floor tiles in the hallways, and break area. (Customer will select tile from available options through SABER PM)
- Strip existing wallpaper, patch, and paint all interior walls (Customer will select wall colors from available color pallet through SABER PM).
- Replace all interior doors in unclassified offices, restrooms, and break room with solid core light maple doors. Install new door hinges and lock hardware meeting Eglin AFB standard hardware/lock configuration.

Note: Painting equipment (brushes, containers rollers etc.) shall not be cleaned in sinks, near storm water drains and over soil and grassy areas.

Architectural/ Structural:

1.1.1. Phase 1

1.1.1.1. Second Floor

- Remove the existing double doors and create an emergency exit corridor running through the North side of the current Rm 212 to the East exterior wall of the facility, ensure hallway is compliant with emergency egress pathway requirements.
- Install a set of metal stairs with railings for the purpose of egressing from the new Emergency Exit door.
- Relocate south wall of 214 into room 212A to gain additional space required to create the multi stall female restroom and convert the remainder of room 214 into a multi stall female restroom with a tiled shower to include a multi sink vanity and full width mirror, install two each manually operated soap and towel dispensers.

- Install door 3'-0" x 7'-0" for the multi stall female restroom.
- Install ceramic nonslip tile on the floor or similar to Daltile: Stratford Place; 2-inch x 2-inch Stratford blend Mosaic.
- Ensure Sewer vent stack is properly routed to the exterior of the facility through the metal roof or out the side wall of the facility for code-compliant ventilation.
- Restrooms will need to be exhausted per IMC and SA will need to be added.
- Install separate in-line fan to achieve proper venting of sewer gases if required for code-compliance or effective ventilation.
- Convert current 2nd floor female restroom into a lactation room. (UFC 1-200-01 DoD Building Code, With Change 3, Chapter 1-1-4.2)
- Install solid countertop with sink, soap, and paper towel dispenser in lactation room.
- Install flooring (carpet or tile) and STC 45 door with privacy indicator lock in lactation room. (Customer will select tile from available options through SABER PM)

- Install a small undercounter refrigerator in lactation room.
- Remove existing double metal doors and frame on East end of room 215.
- Using CMU Block, construct an opening on North end of room 215. For a single hung 3'-0" x 7'-0" metal door,
- Purchase and Install a STC 50 Secure door and frame into the new opening. Purchase and install X10 Lock.
- Ensure that the STC doors have FF-L-2890 compliant devices of the appropriate type for all doors into or out of the secure space.
- Add Access Control System (ACS) to 215.
- Add Intrusion detection System (IDS) for room 215.
- Install Grounding Bar and 2 dedicated 15 Amp Circuits in room 215A.
- Renovate current 2nd floor men's restroom to include new faucets fixtures and stalls, new toilets and urinals and vanity with 2 sinks. Install full length mirror over sinks.
- Install stainless steel utility sink and new exhaust fan in men's restroom.
- Install new shower valves in shower stalls.

- Remove and replace existing floor and shower tiles and replace with non-slip tiles. Use Daltile: Stratford Place; 2-inch x 2-inch Stratford blend Mosaic or similar tile. Install tile soap holders in shower.

1.1.2. Phase 2

1.1.2.1. First Floor

1.1.2.1.1. Reception Area

- Demo existing desk and cabinets in reception area, construct walls and add door to enclose area to create an office space.
- Install a 3'-0" x 7'-0" door on west wall.

1.1.2.1.2. Breakroom

- Construct new ICD 705 Type A wall in Rm. 1015-2 to create a break room, install new entry door with panic bar hardware to egress the breakroom, upgrade existing cabinetry, counters, sink, faucets, and fixtures in break area.
- Replace north exterior exit door with STC 50 door with required panic hardware installed.
- Replace door in Rm. 1024 with STC 50 door and X10 Lock and standard panic hardware installed.
- Ensure that the STC doors have FF-L-2890 compliant devices of the appropriate type for all doors into or out of the secure space.
- Install new HVAC ductwork and balance system.
- Install Fire protection in new break room.

1.1.2.1.3. Room 210

- Install 220v mini split on south CMU wall to support existing sever in room.

1.1.3. Phase 3

1.1.3.1. First Floor

- ~~Design/Purchase and install an Office/Modular Furniture solution for the entire first floor. (Customer is to provide furniture plan new workstations)~~

1.1.3.2. First Floor Restrooms

- Renovate existing First Floor restrooms to achieve the following:
- Demo existing showers in men's restroom. Reconfigure to accommodate additional room needed for the second stall in the women's restrooms.
- Construct first floor men's restroom to have 2 toilet stalls, 2 men's urinal stalls, replace existing utility sink with a stainless-steel utility sink and replace the multi sink vanity with full width mirror for the men's restroom. Ensure the new restroom layout is ADA compliant.
- Construct first floor women's restroom to have 2 toilet stalls, and a multi sink vanity and full width mirrors. Ensure the new restroom layout is ADA compliant.
- Purchase and install (2) each wall mounted manually operated hand soap and paper towel dispensers in each of the restrooms. New faucets and fixtures shall be installed in both restrooms.
- New restroom will require additional HVAC and exhaust.
- Upgrade ventilation /exhaust fans in each restroom. Ensure vent stack for both rooms are properly routed to the exterior of the facility through the metal roof or out the side wall of the facility for code-compliant ventilation.
- Install separate In line fan to achieve proper venting of sewer gases if required for code-compliance or effective ventilation.

1.1.3.3. Room 1014

- Reinforce conference room west and south walls for hanging (2) 80-inch TVs.

1.1.3.4. Room 1015.2

- Remove all ceiling fans in rm. 1015.2, and route additional HVAC ducting to accommodate the presence of 24/7 computer equipment and personnel requirements. Approx: 80 computer workstations, 35 flat panel monitors, and average 15+ persons at any time. Switch/server equipment TBD.
- Rebalance new HVAC.
- Construct a 3 5/8" metal partition 5/8" fire rated gypsum wallboard with sound attentive insulation to enclose around generator/transformer. Install 3'0" x 7'0" door with and ensure compliance with emergency egress pathway requirements.
- Remove projector ceiling fixture and install new acoustic ceiling tile.
- Reinforce conference room north and east wall for hanging (2) 80-inch TVs.
- Build up room 1015-2 to ICD 705 standards for SCIF accreditation.
- Bring exterior walls up to ICD 705 Class A exterior walls if required.
- Add Access Control System (ACS) to 1015-2.
- Add Intrusion detection System (IDS) for 1015-2.
- Install dedicated electrical subpanel in room 1015-2 providing all electrical service for room 1015-2 only.

1.1.3.5. Room 1024

- Demo and remove the raised stage in room 1024, leaving the multi panel white board in place, ensuring the white board has sufficient structural support, apply finish trim to structural support.
- route additional HVAC ducting to accommodate the presence of 24/7 computer equipment and personnel requirements. Approx: 80 computer workstations, 35 flat panel monitors, and average 15+ persons at any time. Switch/server equipment TBD.
- Seal all penetrations into SCIF (rm 1024), and route additional HVAC ducting to accommodate the presence of 24/7 computer equipment and personnel requirements. Approx: 80 computer workstations, 35 flat panel monitors, and average 15+ persons at any time. Switch/server equipment TBD.
- Replace the existing door with a with STC 50 door and X10 Lock and standard panic hardware installed. And to add emergency exit panic hardware to the double exit doors.
- Ensure that the STC doors have FF-L-2890 compliant devices of the appropriate type for all doors into or out of the secure space.
- Construct a security wall per ICD 705 Type "A" at entry to obscure the main room when entering.
- Security entrance will require additional HVAC and exhaust.

- Replace exterior carpet at front and rear entry.

1.1.3.6. Plumbing

- 2nd floor men's restroom to include new faucets fixtures and stalls, new toilets and urinals and vanity with 2 sinks install full length mirror over sinks.
- Reinstall stainless steel utility sink in both men's restroom.
- Install new faucets fixtures and stalls, new toilets, urinals, and vanity with 2 sinks install full length mirror over sinks in new restroom layout for 1st floor men's restroom.
- Install new faucets fixtures and stalls, new toilets, and vanity with 2 sinks install full length mirror over sinks in new restroom layout for 1st floor women's restroom.
- Install new domestic water hot/cold isolation valves for breakroom and restrooms.
- Remove and replace existing utility sink with a stainless-steel utility sink.
- Seal all penetrations into SCIF room 1015 and 1024.

1.1.3.7. Plumbing System Upgrade

- Replace all sanitary piping between floors.
- Replace piping under the slab.
- Install cleanouts as needed in restrooms.

1.1.3.8. Mechanical

- Upgrade ventilation and exhaust fans in each restroom.
- Systems touched will need to be rebalanced.
- Not only ventilation and exhaust but potentially also supply air will need to be added.
- Ensure vent stack is properly routed to the exterior of the facility through the metal roof or the exterior side wall. If required, install sperate in-line fan to achieve proper venting for effective ventilation.
- Install 220v Mini Split system to support Server room 210.
- To accommodate the computer equipment and personal requirements for room 1015 and 1024. The renovated ICD 705 space is to be reconfigured. The heat load needs to be analyzed and calculated to ensure condition in this space meets the mission requirements. Design shall provide proper air volumes, proper zoning, controlled, and balanced HVAC systems. Contractor shall provide air balancing commissioning and reports (T&B) before and after construction. All existing supply ductwork that will be reused as part of the new HVAC design, shall be cleaned per National Air Duct Cleaners Association (NADCA). Mechanical Duct shop drawings are required.
- Seal all penetrations into SCIF room 1024.
- All HVAC supply line into 1024, 1015, 215 will have medal bars on openings larger than 96 sq in and have a view port and white noise generator in the room.
- All HVAC returns will be Z-duct with baffles.
- All existing metal conduit penetrations will be replaced with dielectric breaks or

- grounded.
- All new conduits will use dielectric breaks.
- All exiting vacated holes / penetrations will be sealed.
- All new penetrations will be sealed with fire caulking.
- New wall construction for 1015 and 215 will have fire caulking.

1.1.3.9. Electrical

- Provide outlet at each of the workstations/office according to a new configuration for rooms 1015 and 1024.
- Install 2 additional 20 Amp Electrical Circuits in Room 1015 and 1024.
- Install dedicated Electrical Sub-Panel in Rm. 1015
- Ensure all electrical wiring is up to code.
- Install new GFCI outlet and receptacles.
- Install new switch and outlet plate covers.
- Relocate hallway light switch from room 1015-1 to the hallway.
- Install 2 20 Amp Circuits in Room 0025.
- Install 2 additional 20Amp circuits in first floor comm room 0025.
- Install a new 30Amp electrical service for additional support in server room 210.
- Add Electrical service to support additional computers in SCIF rooms 1015.1 and 1024.
- Install dedicated electrical subpanel in room 1015-1 providing all electrical service for room 1015- only.
- New restroom electrical installation shall be per design.
- Install dedicated electrical subpanel in room 212 providing all electrical service for room. 212 only.
- Install additional outlets for undercounter refrigerator in lavatory room.
- Add separate Electrical Panel within room 215.

1.1.3.10. Communication (COMM)

- Install (including network and electrical connections) 80” screen TVs (2 ea./wall) in room 1024 and 1015-2.
- The design and construction of the communication system shall meet the 96 COMM requirements and the user’s mission requirements. Installer shall provide telecom product submittal; a list of the products they plan to provide, along with corresponding part numbers and quantities, for technical approval prior to purchase and installation.
- In existing comm room 210, installer shall place fire rated backboard on Northeast wall closest to stairwell and adjacent wall. 4.25-inch core with 4-inch fire rated sleeve into floor of Comm Room 210 will be required in location referenced on drawing T-002.
- Installer shall install 12-inch cable basket and 2-inch J-hooks with retaining clips in all areas referenced in drawing T-001. A total of 4-each 2.25-inch concrete cores with 2-inch sleeves will be required in locations referenced in T-001.
- **Telecommunications Rooms Grounding and Bonding:** Contractor shall install telecommunications copper Secondary Busbar (SBB) in comm room 210 and closet

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- inside room 215 with conductors suitable for indoor installation in accordance with ANSI/ TIA-607. Busbar(s) and conductor(s) must be made of copper or copper alloys having a minimum of 95% conductivity. Install ground conductor of appropriate sizing (#6 AWG up to #750 MCM) from the telecommunication room busbar location to the main building or servicing floor electrical panel in EMT conduit. Conduit shall be identified, tagged, or labeled from point-to-point as Telecommunications Bonding Conductor (TBC).
- Connections of the TBC and the Telecommunications Bonding Backbone (TBB) shall utilize UL listed compression two-hole lugs or two-hole irreversible crimp connector.
 - The following items shall be attached to the SBB...cable tray, cable ladder, racks, cabinets, metal conduits and PETs.
 - Power Requirements: In comm room 210, 4-post lockable enclosure shall have one (1) 120V/20A dedicated circuit with NEMA 5-20R quad receptacle and one (1) 120V/30A dedicated circuit with NEMA L5-30R receptacle, both mounted at the base of the rack with receptacles facing towards front of rack. Power within 210 needs to be fed from the power panel that is on the generator. In comm room 215, wall mount lockable cabinet shall have one (1) 120V/20A dedicated circuit with NEMA 5-20R quad receptacle mounted at the base of the rack with the receptacle facing towards front of rack.
 - Contractor shall install within both comm rooms, an appropriate HVAC in accordance with the UFC 3-580-01.
 - Wall penetrations for existing cable tray exiting proposed secured areas will need to be built around and mitigated per ICD 705 standards. Wall penetrations will also be needed for new cable tray where transiting wall areas.
 - Where indicated on drawing T-004, contractor will install new double gang electrical box (dimensions specified in Key Callout) with 1-inch EMT stubbed out above dropped ceiling, preferably terminating over cable basket.
 - **In comm room 210**, install a 4-post cabinet enclosure (GL790ES-2442MS or equal) with a side car cable manager and end panels (SC67942 & SCP7942 or equal), a vertical cable trough and cover (VCT-79 & VCT-79C or equal), with the cabinet sides "in-line" with the existing Lockheed-Martin Cabinets, against the wall. Front door of cabinet shall face entryway and rear door shall face exterior wall.
 - Using newly cored 4-inch floor penetration in comm room 210, install 1.25-inch innerduct from newly installed cable basket down into room 110. Pathway from room 110 to 1st floor comm room will require J-hooks installed no more than 5-feet apart. Reference drawing T-003 for suggested innerduct pathway. Ensure Innerduct ends on cable basket where possible near existing rack in 1st floor comm room, and above newly installed cabinet in comm room 210.
 - **In comm room 215**; closet inside of newly secure area (see reference T-001) install backboard and a wall mount cabinet (GL24WMCMS-B-SH-AF-CM or equal) onto newly installed backboard. Secondary Bonding Busbar shall also be installed onto backboard.

1.1.3.11. Fire Protection

- Provide and ensure new emergency egress that meets code and life safety requirements.
- Install Type II prefab metal stairs with railing from the new emergency exit.
- Upgrade necessary components required to meet Eglin Fire Department/Fire Alarm Shop criteria/requirements and current code requirements.
- Install sprinkler protection in all areas of facility currently not sprinkled IAW UFC 3-600-01 (Change 6) Chapter 34-1.2.6 and Chapter 9-7.2.4. After final acceptance on sprinkler system work existing non-necessary fire detection may be demoed IAW UFC 3-600-01 Chapter 9-18.5. Project meets criteria as a Major Project IAW UFC 3-600-01 Chapter 2-1.20 and therefore requires design services of a Qualified Fire Protection Engineer as defined by UFC 3-600-01 Chapter 1-7.

Note: All final acceptance testing will be conducted with contractor supplied calibrated gauges complete with documentation on site.

3-10.3. Verification of Existing Conditions and site Survey

Bidders/Offerors should visit the site and take such other steps as may be reasonably necessary to ascertain the nature and location of work and the general and local conditions that can affect the work or cost thereof.

Use of existing condition data provided by the Air Force conveys acceptance and as such does not relieve the Contractor of liability associated with performance as the Engineer of Record. The Contractor shall be solely responsible for verification and validation of existing conditions, coordination of existing conditions in parallel with proposed requirements, and both above and below grade condition assessments. Information obtained from the Contractor's own evaluations shall be used as the basis of design.

The contractor shall perform field reconnaissance, surveys, and site investigations required to obtain engineering information and design data for the accomplishment of the contract documents of the project in accordance with requirements of this Statement of Work (SOW). As-built drawings of existing facilities shall be provided to the contractor upon request if available.

3-11. Design Information

3-11.1. Submittals

Requirements for each submittal are generally described below.

- 65% Design Submittal: This submittal, if required, is intended to ensure that funding limitations are not being exceeded and that the drawings, design analysis, and specifications are proceeding in a timely manner and that the design criteria and previous review comments are being correctly interpreted. Redlined marked up specifications will be submitted at this design phase. The 60 to 65% Design shall consist of:

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- Design Analysis developed to approximately 60 to 65% completion outlining further design development and engineering calculations.
- Approximately 65% complete drawings including those addressing construction phasing.
- Redlined marked up specifications.
- Basis of design for pertinent materials and/or equipment.
- Completed permit applications (if an Interim submittal was not required, the completed permit applications are required 60 days prior to the Final submittal).
- Specific Criteria incorporated into specifications and drawings. Specific criteria include:

Unified Facilities Criteria (UFC's)

- UFC 1-200-01 General Building Requirements
- UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard
- UFC 3-190-01FA Design: Joint Sealing for Buildings
- UFC 3-190-02FA Design: Builder's Hardware
- UFC 3-301-01 Structural Engineering
- UFC 4-021-01 Mass Notification Systems
- UFC 3-500-10N Electrical Engineering
- UFC 3-501-01 Electrical Engineering
- UFC 3-520-01 Interior Electrical Systems
- UFC 3-530-01 Interior and Exterior Lighting and Controls
- UFC 3-550-03FA Design: Electrical Power Supply and Distribution
- UFC 3-560-01 Electrical Safety
- UFC 3-570-06 Cathodic Protection Systems Operation and Maintenance
- UFC 3-575-01 Lightning and Static Protection
- UFC 3-580-10 NMCI Standard Construction Practices
- UFC 3-600-01 (Change 6) Fire Protection Engineering for Facilities
- UFC 4-010-01 DOD Minimum Antiterrorism Standards for Buildings

Eglin AFB Requirements

- Eglin Engineering Design Manual (Feb. 2019)
- Eglin Architectural Compatibility Plan
- Eglin Fire Alarm Requirements (Jan. 2023)
- Eglin 96 Comm Squadron Design Guide (Jan. 2024)
- Eglin 96 CEG As-Built Requirements

Other Requirements

- CHELCO Requirements
- ACI 301-16, ACI 315, and ACI 318-19
- National Electrical Code (NEC, 2023 Edition)
- NFPA 70E (2018 Edition)
- NFPA 72 (2022 Edition)
- OSH 1910.97 Occupational Safety and Health Standard 1910.97
- ASTM E329 Standard for Agencies Engaged in Construction, Inspection, Testing, or Special Inspection
- EMCS (DDC) System Requirements
- ICD/ICS 705 Version 1.5.1 – IC Tech Spec

All construction must be in compliance with all Public Laws (P.L.), Executive Orders (E.O.), Code of Federal Regulations (CFR), Department of Defense Instructions (DODI) and Department of Defense Directives (DODD) or other higher authority documents as applicable, as listed in MIL-STD-3007F.

- 95% Design Submittal/Unreviewed 100% Design: This submittal represents a 100% complete design with the exception of the incorporation of any review comments resulting from the review of the submittal. The Final Design shall consist of:
 - Design Analysis with all items 100% complete. It shall include all backup material previously submitted and revised, as necessary, all design calculations, all explanatory material giving the design rationale for any design decisions which would not be obvious to an engineer reviewing the Final drawings and specifications, and any information for the Contracting Officer that will assist in administering the construction contract.
 - 100% complete drawings including those addressing project construction phasing.
 - Specifications. Final edited specifications.
 - Annotated Interim review comments.
 - Basis of design for pertinent materials and/or equipment.
 - Review comments and Contractor responses from the 65% design.
 - All supporting documentation required for permit application approvals, if applicable.
 - Specific Criteria incorporated into specifications and drawings. Specific criteria include:

Unified Facilities Criteria (UFC's)

- UFC 1-200-01 General Building Requirements
- UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard
- UFC 3-190-01FA Design: Joint Sealing for Buildings
- UFC 3-190-02FA Design: Builder's Hardware
- UFC 3-301-01 Structural Engineering
- UFC 4-021-01 Mass Notification Systems

- UFC 3-500-10N Electrical Engineering
- UFC 3-501-01 Electrical Engineering
- UFC 3-520-01 Interior Electrical Systems
- UFC 3-530-01 Interior and Exterior Lighting and Controls
- UFC 3-550-03FA Design: Electrical Power Supply and Distribution
- UFC 3-560-01 Electrical Safety
- UFC 3-570-06 Cathodic Protection Systems Operation and Maintenance
- UFC 3-575-01 Lightning and Static Protection
- UFC 3-580-10 NMCI Standard Construction Practices
- UFC 3-600-01 (Change 6) Fire Protection Engineering for Facilities
- UFC 4-010-01 DOD Minimum Antiterrorism Standards for Buildings

Eglin AFB Requirements

- Eglin Engineering Design Manual (Feb. 2019)
- Eglin Architectural Compatibility Plan
- Eglin Fire Alarm Requirements (Feb. 2020)
- Eglin 96 Comm Squadron Design Guide (Feb. 2020)
- Eglin 96 CEG As-Built Requirements

Other Requirements

- CHELCO Requirements
- ACI 301-16, ACI 315, and ACI 318-19
- National Electrical Code (NEC, 2023 Edition)
- NFPA 70E (2018 Edition)
- NFPA 72 (2022 Edition)
- OSH 1910.97 Occupational Safety and Health Standard 1910.97
- ASTM E329 Standard for Agencies Engaged in Construction, Inspection, Testing, or Special Inspection
- EMCS (DDC) System Requirements
- ICD/ICS 705 Version 1.5.1 – IC Tech Spec

All construction must be in compliance with all Public Laws (P.L.), Executive Orders (E.O.), Code of Federal Regulations (CFR), Department of Defense Instructions (DODI) and Department of Defense Directives (DODD) or other higher authority documents as applicable, as listed in MIL-STD-3007F.

- 100% Issued for Construction (IFC) Design Submittal: This submittal represents a complete design (design analysis, specifications, and drawings) including annotated design submittal review comments that answer and/or incorporate review comments resulting from the review of the Final design submittal.

3-11.2. Design Submittal Data

Design data shall be submitted at each design phase, in both hard copy and electronic formats, for review, comment, and approval by the Government. Set quantities shall be as shown in the table below.

Submittal Description	65% Design	95% Design	100% IFC	Total
HARD COPY DATA				
Drawings – Half Size Paper	4	4	4	12
Drawings – Full Size Paper	0	0	1	1
Drawings – Full Size Mylar (As-Builts)	Provided upon completion of work			
Specifications – 8.5” x 11”	4	4	4	12
Design Analysis – 8.5” x 11”	4	4	4	12
ELECTRONIC DATA (CD Sets):	1	1	1	3
Drawings – AutoCAD	X	X	X	X
Drawings – PDF Full Size	X	X	X	X
Specifications – PDF	X	X	X	X
Specifications – SPECSINTACT	X	X	X	X
Design Analysis – PDF	X	X	X	X
Notes: N/A = Not Applicable; X = Included				

All hard copy documents and electronic data presented shall be organized, legible, and clearly expressed. Provide a cover sheet for each document set and clearly note the Project Number, Project Title, Submittal Design Phase, and Date. Electronic data sets shall be on computer disks (CD) and professionally labeled. The CD shall be organized into separate folders (one folder for each submittal item in the above table).

Drawings and Specifications shall be in the sizes and formats shown in the above table, and in accordance with “Design Information” paragraph.

The 95% submittal and the final design shall be signed and sealed by a licensed professional Engineer.

3-11.3. Government Design Submittal Review Procedure

Each design submittal progresses through an iterative review, feedback, and change process that moves the design to the next submittal phase. The process consists of four steps.

1. A-E Design Submittal
2. Government Review Comments

3. A-E Response

4. Design Review Conference

The Government uses the ProjNet Dr. Checks site for all design reviews. The intent is to use Dr. Checks to maintain design review documents and discussion records for viewing of all involved parties.

3-11.3.1. Government Review Comments

Following each A-E design submittal the Government Reviewers will input their respective design review comments into Dr. Checks. Review organizations and locations are diverse. Government reviews may consist of various DoD, Air Force, Air Force Reserve, Air Force Services Agency, and other Eglin AFB Offices that are not part of the 96 Civil Engineering Group (96 CEG). The comments will be from multiple individuals and will likely contain duplicate issues.

The A-E may continue with project efforts during this time.

3-11.3.2. A-E Response

Within three working days of receipt of the Government review comments, the A-E shall provide evaluation responses of concur or non-concur with comments in Dr. Checks to each Government review comment and notify the Government Project Manager once all comments have been evaluated. Next design submission will not be accepted unless initial responses have been entered in Dr. Checks to all items from the previous design review.

3-11.3.3. Government Backcheck Response

All Government Design Reviewers shall be responsible for backchecking the A-E's response to their respective comments. If the Government Reviewer is satisfied with the A-E's response, Government Reviewer shall "Close without comment". If Government Reviewer is not satisfied with A-E's response, Government Reviewer shall keep the comment open, flag for follow-up and provide additional details.

3-11.3.4. Design Review Conference

The BCE Project Manager will coordinate with the A-E Project Manager and schedule a Design Review Conference. The BCE Project Manager shall schedule a conference room and send meeting invitations. The A-E will conduct the conference and issue a written set of meeting minutes for project files within two (2) business days. Meeting discussions will generally focus on comments that the A-E has not concurred or viewed as such and clarifications of comments and responses.

3-11.3.5. Other A-E Reporting Responsibilities

The A-E is responsible for making a memorandum of record (MFR) of all conversations and minutes of any meeting with any Government personnel concerning this project. The A-E shall forward, within two (2) business days, one copy of such memoranda to the

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Project Manager and the Contracting Officer. At a minimum, the MFR shall address: Comments not included in Dr. Checks, clarifications, summary of discussions pertinent to the A-E's work, direction received; attendees list; action items, if any, and to whom they were assigned. The MFR is intended to augment rather than duplicate the review comments and responses provided in Dr. Checks

3-11.3.6. Out of Project Scope

Government review comments or other verbal comments interpreted by the A-E as being beyond the scope of work shall be identified as such in writing and submitted to the Contracting Officer with a copy to the Project Manager.

3-11.3.7. Contracting On-Board Reviews

At the option of the Government, the contracting officer may request an on-board review of the work with the A-E and his representative staff at any (or all) submittal stage(s). An on-board review may also be requested by the A-E. The Government will accord this accommodation at the discretion of the contracting officer.

3-11.3.8. Minor Review Comments

Review comments of minor importance may be relayed to the contractor by telephone. Such comments should be acted upon as if written and they shall be recorded by the Contractor with a memorandum forwarded to the project manager and contracting officer.

3-11.4. Drawings

All drawings shall be created using Computer Aided Design and Drafting (CADD) methods. Project drawings shall be created in AutoCAD and saved in DWG file formats. Create drawings in a version of Auto CAD that is coordinated with 96 CEG drafting section.

Drawing components, plans, elevations, sections, and details shall be drawn in Model Space to a 1:1 Scale Ratio only. The use of redline schematics shall not be acceptable. Drawings shall be of sufficient detail to fully communicate the project concept. Sheet Borders, Title Blocks, and related Text shall be in Layout Space.

All design sheets shall contain the standard Eglin Air Force Base Sheet Borders and Title Blocks. Standard sheet border and title block drawings are available upon request through the CEN Drafting Office. Include the Project Number, Spec Number Code, and Drawing Number Code in the appropriate title block fields. Include the Building Number in the title block Title field. Include the A-E firm logo near the title block and leave room for required signed PE/RA seals on the Final design.

Plans, elevations, sections, and details shall be to scales as normally used in professional practice, including detailed schedules and appropriate legends to describe the project. Number and name each plan or detail and note the scale. Submission of drawings that plot to an incorrect scale shall result in disapproval of the submittal.

Paper Drawings shall be bound black line prints for both full and half size sets. Drawings shall be to the correct scale (true full, 1:1 and true half, 1:2).

The preferred drawing sheet size for Eglin Air Force Base is 24"x36" (ARCH D). Size 30"x42" (ARCH E1) may be acceptable, if approved in advance.

3-11.5. Specifications

3-11.5.1. UFGS 50 Division Specifications

Architect-Engineer (A-E) designers shall create technical specifications using the Unified Facilities Guide Specifications (UFGS) unless specifically directed otherwise. UFGS masters are available on the Whole Building Design Guide (WBDG) website in both PDF and SPECSINTACT formats. Each section shall be edited and tailored to the project design.

The Government default software for creating technical specifications is SPECSINTACT, which is available at no cost and widely used by A-E firms.

The use of alternate specification software by the designers may be allowed if requested and approved in writing prior to the start of work. Numbering, titles, and page formats shall be maintained, as well as the UFGS technical content.

3-11.5.2. Specifications to be provided by A-E Design Team (at a minimum)

At the very minimum, the D/B Contractor's A-E shall provide but not limited to the following specification sections:

- 01 32 01.00 10 Project Schedule
- 01 33 00 Submittal Procedures
- 01 35 26 Governmental Safety Requirements
- 01 45 00.00 10 Quality Control
- 01 50 00 Temporary Construction Facilities and Controls
- 01 57 19 Temporary Environmental Controls
- 01 78 00 Closeout Submittals

Additional specifications shall be added as required for construction specifics of this project.

3-11.5.3. Hard Copy and PDF Formats

Specifications shall be 8.5" x 11", printed on two sides, and bound. Add blank even numbered pages as necessary in electronic PDF files to facilitate two-sided printing and publishing. Break the project specification set into volumes, if needed for ease of use and reproduction. Provide a cover sheet and complete Project Table of Contents at the beginning of each bound volume.

3-11.5.4. Scope and Quality

The designer is responsible for the accurate preparation and coordination of the technical specifications.

Specifications prepared by the designer must be accurate, clear, and precise and should not be subject to interpretation. The specifications will be specific, free of ambiguities, and well-coordinated with the drawings. The designer shall be solely responsible for insuring the relevancy and accuracy of cross-references between technical sections of the specifications.

3-11.5.5. Tailoring and Coordination of Specifications

Each specification used in the preparation of project specifications shall be tailored to fit the requirements of the project. Where numbers, symbols, words, phrases, clauses, or sentences are enclosed in brackets [], a designer's choice or modification must be made. The designer shall exercise care in making the choice or modification. Where blank spaces are provided for insertion of data or text, the designer shall insert the appropriate data or text. Where entire paragraphs are not applicable, they must be deleted. Paragraphs describing systems or materials not used in the construction of the project shall be deleted. When necessary to add requirements, they must be consistent with the other requirements of the specification and must not unnecessarily restrict products that can be furnished.

Each specification used in the preparation of project specifications must be coordinated with other specification sections included in the project and with the project drawings. Duplication of requirements in other sections or on the drawings should be avoided. Cross-referencing of requirements will be done only when necessary to avoid misunderstanding. If the specification states "as shown" or similar wording, the requirement must be shown on the drawings. If the drawings reference the specifications, the specification must cover the reference. If a specification references another specification, the referenced specification must be included in the project. The designer shall insure that specifications and drawings are properly used. Specifications are used to establish requirements such as quality and workmanship, and drawings are used to establish requirements such as layouts and dimensions.

3-11.5.6. Tailoring Specifications Shop Drawings and Product Data Submittals

The Shop Drawings typically listed in each UFGS specification are intended to cover the majority of circumstances for a variety of projects. Not all Shop Drawings listed in the specification need to be included in every project. During the editing of the Shop Drawing Submittal portion of each specification, the designer should carefully consider which Shop Drawing Submittals are actually required from an Engineering Verification and Quality Control perspective. All submittals that are not absolutely necessary should be deleted whether listed for "Government Approval" or "For Information Only".

Shop Drawings and Product Data Submittals requiring Government Approval should be limited to major pieces of equipment or systems requiring review by the designer, color

selection, testing reports, etc. For each Submittal that requires Government Approval, provide the desired reviewer designation "CE" for "Eglin Civil Engineering". Recommendations for labeling Shop Drawing Submittals requiring Government Approval are provided below. See UFGS specification Section 01 33 00 SUBMITTAL PROCEDURES for further information.

- Preconstruction submittals should be labeled "CE".
- Shop Drawings and Product Data Submittals for major pieces of equipment or systems requiring review by the designer should be labeled "CE".
- Submittals involving "Samples", or "Color" selection should be labeled "CE" for coordination with the BCE or other Installation office.
- Test Reports, Certificates, Operations and Maintenance Data and Closeout Submittals should be labeled "CE".
- "For Information Only (FIO)" Submittals: For Shop Drawing Submittals not requiring Government Approval, the "CE" designation after the Shop Drawing Title shall not be included.

----- END OF SECTION -----

4. CONSTRUCTION

4-1. Security Requirements

Work under this contract is restricted to U.S. citizens.

The request for personnel passes shall be accompanied with the following certification: "I hereby certify that all personnel on this list are either born U.S. citizens, naturalized U.S. citizens with the naturalization number shown." Signature/Firm Name

Documents Acceptable for Proof of Citizenship: a. Birth registration card b. Certificate of live birth, birth certificate c. Certificate of Naturalization d. Certificate of registration e. DD-214 (Must Cite Birthplace) f. DD Form 4 (Contract for Enlistment and Must Cite Birthplace) g. DD 1966 (Application for Enlistment) h. Military discharge papers (must cite birthplace) i. Delayed birth certificate j. Hawaii certificate of foreign birth k. Hospital birth certificate l. Marriage license certificate m. Merchant marine certificate n. Military officer ID card o. Notification of birth registration p. State of Hawaii ID card q. USA passport r. Verbal inquiry with State of Hawaii Vital Statistics Office.

4-2. Contractor Responsibility

The Contractor is responsible for the construction of all work. In order to ensure quality, the Contractor shall develop a Quality Control Plan and submit to Government for review and approval. Quality Control Plan shall be developed in accordance with UFGS 01 45 00.00 10 QUALITY CONTROL.

In order to allow the Government to monitor the Contractor's progress and review their work, the Contractor shall develop a submittal register as specified in UFGS Section: 01 33 00 SUBMITTAL PROCEDURES.

4-3. Working hours

Regular working hours shall be 7:00 a.m to 4:00 p.m, Monday through Friday, excluding Government holidays.

Work outside regular working hours requires Contracting Officer's prior approval. Make application 15 calendar days prior to such work to allow arrangements to be made by the Government for inspecting the work in progress, giving the specific dates, hours, location, type of work to be performed, contract number and project title. Based on the justification provided, the Contracting Officer may approve work outside regular hours. During periods of darkness, the different parts of the work shall be lighted in a manner approved by the Contracting Officer. Utility cutovers may be done after normal working hours or on Saturdays, Sundays, and Government holidays unless directed otherwise.

4-4. Deliveries

All construction deliveries shall either be inspected at the commercial (North) Gate of Eglin Main Base or 7th Special Forces to get properly examined. Once their vehicle is cleared, they shall receive a pass that can be daily or weekly. The delivery vehicles can then proceed to Eglin AFB or Duke Field and show their pass to enter through the security checkpoint.

4-5. Utility Cutovers and Interruptions

Planned interruptions of utility services (electrical power, water, natural gas, etc.) shall be detailed and coordinated by the Contractor. Requests for interruptions shall be submitted in writing by the Contractor to the Contracting Officer's Representative at least 14 calendar days before the planned outage. This request shall also be shared with the Contracting Officer.

Contractor shall not interrupt service(s) until approval has been granted. Requests shall include facility/facilities affected, date of scheduled outage, and duration. Requests for interruption of service(s) will not be approved until all equipment and materials required for that particular phase of work are on the job site.

Road cuts are not currently allowed. Contractor shall find other means necessary.

Work shall be scheduled to hold outages to a minimum.

Utility outages and connections required during the prosecution of work that affect existing systems shall be arranged for at the convenience of the Government and shall be scheduled outside the regular working hours or on weekends.

4-6. Environmental Protection

Activities shall be planned and implemented in a manner that protects existing site utilities, structures, surface features, service operations, and the general site environment. This includes the protection of trees, shrubs and other vegetation not in the affected zone from dust damage, soil compaction, and physical contact with machines and equipment.

If appropriate, the contractor shall conserve uncontaminated topsoil by removal, storage, or redistribution. All reasonable measures shall be taken to minimize and suppress fugitive emissions of dust, vapors, and other site materials during site work.

All fill materials shall be non-contaminated. The Contractor shall conduct operations and activities with the intent of reducing the amount of pollution generated. Specific areas to be focused on are generation of solid waste, use of hazardous materials, use of ozone depleting chemicals (HVAC requirements), generation of hazardous waste, and use of energy and water.

The Contractor shall plan, construct, operate, maintain, optimize, and commission systems necessary to control storm water run-on and runoff. At a minimum, the contractor shall employ best management practices consistent with the Florida

Development Manual, Chapter 6, Storm-water and Erosion and Sediment Control Best Management Practices for Developing Areas.

4-7. Road Closures

Planned road closures shall be detailed and coordinated by the Contractor. Requests for road closures shall be submitted in writing by the Contractor to the Contracting Officer's Representative at least 14 calendar days before the planned closure. When it becomes necessary to close roads for construction, the Contractor shall immediately put in place the necessary signs and barricades required. All traffic control devices (signs, barricades, pavement markings, traffic signals, intersection control beacons, delineators, etc.) shall conform to the FHWA Manual on Uniform Traffic Control Devices and the FHWA publication Standard Highway Signs, most current edition. These include, but are not limited to, begin/end construction signs, standard traffic control signs, including clearly marked detours and barricades with yellow flashing caution lights. Hand painted plywood signs (or other materials) are not allowed or acceptable. Upon completion of road work, all signs and barricades shall be immediately removed, and all normal traffic control devices and signs returned to their original condition. Signs and barricades shall not be left along sides of roadways.

4-8. Base Access and Gate Hours

Any person, individual, entity, or company requiring base access shall contact the Contracting Officer to obtain and process an access permit. Current Photo Identification, Current Driver's License, Current Registration, and Current Vehicle Insurance shall be required for vehicle access pass. A Day-Pass can only be obtained on the day of arrival. Base Contracting can submit completed Base Access Request for up to six-months.

Gate hours are subject to change by the Government at any time due to military activities. Contractor shall then be responsible for coordinating with the Contracting Officer for base access.

4-9. Construction and Dig Permits

A local permitting procedure is in effect at Eglin AFB for any work which may disrupt aircraft or vehicular traffic flow, base utility services, routine activities of the installation or which may involve subsurface excavation. Contractor must plan and detail any work of this nature sufficiently in advance of the proposed work. An AF Form 103, Base Civil Engineering Work Clearance Request, must be submitted at least 14 calendar days in advance of the proposed performance date to the Contracting Officer. Work will not begin until approval has been granted. Forms will be made available to the Contractor at Building 696 on Eglin AFB. This includes soil borings.

4-10. Welding

Welding shall not be performed without first obtaining a welding/burn permits issued by the Base Fire Department. In addition to contacting Eglin Fire Department for Hot Work

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Permits Prime contractors, foreperson, safety officer and/or site supervisor can become a Permit Authorizing Individual. To become a PAI personnel must attend PAI certification course held on the 1st Wednesday of each month 08:00 at Building 698.

4-11. Radioactive Equipment

Use of radioisotopes or radiation producing equipment (density gauging, NDE weld testing, etc.) requires a Nuclear Regulatory Commission (NRC) Radioactive Material License, with all documentation submitted and approved prior to bringing the material on base. To obtain authorization contact Bio-Environmental, Tyndall AFB Hospital and Environmental Section in the 325 Civil Engineer Squadron.

The Contractor shall also comply with all requirements of AFI 40-201.

The Contractor shall forward application to the Contracting Officer 30 days prior to commencing operations using radioactive materials.

Contractors possessing Agreement State Licenses must also submit an NRC Form 241 to NRC in compliance with 10 CFR 150.20.

Request shall include the following:

- a. Description of proposed activities on NRC Form 241.
- b. Procedures established to ensure radiological health and safety of all personnel.
- c. Name of responsible Contractor representative.
- d. Current copy of application for NRC or Agreement State License. The license must specifically state the installation by name or approval for temporary job sites anywhere in the United States where the NRC or Agreement State maintains jurisdiction.
- e. The part of the Air Force contract describing work to be done at the base and the inclusive dates of such work.
- f. An acknowledgement that the base RPO can make periodic checks to ensure the Contractor is following applicable radiological health and safety practices.
- g. Contractors requiring more than 180 calendar days per calendar year of operation must possess an NRC license.

4-12. Construction Submittals

The Contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Units of weights and measures used on all submittals are to be the same as those used in the contract drawings. Each submittal is to be complete and in sufficient detail to allow ready determination of compliance with contract requirements. Use transmittal form AF Form 3000: Material Approval Submittal, for submitting in accordance with the instructions on the reverse side of the form. Once received from the Contracting Officer at 96 CEG, the government will have 14 calendar days to review submittals and return AF Form 3000 to the Contractor.

4-13. Contractor Quality

The Contractor is responsible for the quality of construction for all phases of work.

Establish and maintain an effective quality control (QC) system in accordance with specification 01 45 00.00 10. QC consists of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements.

Cover all construction operations, both onsite and offsite, and be keyed to the proposed construction sequence. The Contractor's designated Quality Control Representative will be held responsible for the quality of work and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the contract. In this context the highest-level manager responsible for the overall construction activities at the site, including quality and production is the Quality Control Representative. The Quality Control Representative must maintain a physical presence at the site at all times and is responsible for all construction and related activities at the site, except as otherwise acceptable to the Contracting Officer.

4-14. Request for Information

Submit a Request for Information (RFI) when questions arise concerning interpretation, conflicts, omissions, errors, or regulatory violations within the Contract Documents.

Review all RFIs prior to submission to the Contracting Officer or Government's Designated Representative. The General Contractor is responsible to have a thorough and working knowledge of the entire contract documents and to review their subcontractor's and in-house RFIs for legitimacy and reasonableness. Do not forward questions to the Contracting Officer or Government's Designated Representative that are easily answerable from a cursory review of the contract documents.

Allow 14 calendar days for government review of the RFI. The Government will respond to all RFI's on the RFI form with the Contracting Officer's signature. If the response to the RFI does not involve a change to the contract, after receipt of the government response, proceed as if the answer to the RFI existed within the Contract Documents. For RFIs where the government determines a change to the Contract price or time is appropriate, officially close the RFI and refer thereafter as a pending modification. Comply with the modification requirements.

Use the attached RFI form to submit RFI's to the Contracting Officer. For tracking purposes, submit an updated RFI tracking log with each new RFI or upon request.

4-15. Meetings

4-15.1. Progress Meetings

Contractor shall conduct progress meetings with the Government representative(s). Contractor shall have all participants at these conferences familiar with the project and authorized to conclude matters relating to the work. Contractor representatives shall

include the required the on-site staff. Agenda of progress meetings will include but not limited to:

1) Project Statistics	2) Schedule
3) User Coordination	4) Status of Submittals
5) Safety	6) Deliveries
7) Off-site fabrication problems	8) Access
9) Site utilization	10) Temporary facilities and services
11) Hours of work	12) Hazards and risks
13) Housekeeping	14) Quality and work standards
15) Changes to the contract	16) Pay Request Information
17) Status of RFI's	18) Other topics as required
19) Resolution of existing issues	20) New business

Provide minutes for the prior week's progress meeting prior to each new weekly meeting. No later than two (2) days after each meeting, distribute minutes of the meeting to each party present and to parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.

4-15.2. Periodic Schedule Update Meetings

Conduct periodic schedule update meetings for the purpose of reviewing the proposed Periodic Schedule Update, Narrative Report, Schedule Reports, and progress payment. Conduct meetings at least monthly within five days of the proposed schedule data date. Provide a computer with the scheduling software loaded and a projector which allows all meeting participants to view the proposed schedule during the meeting. The Contractor's authorized scheduler must organize, group, sort, filter, perform schedule revisions as needed and review functions as requested by the Contractor and/or Government. The meeting is a working interactive exchange which allows the Government and Contractor the opportunity to review the updated schedule on a real time and interactive basis. The meeting will last no longer than 8 hours. Provide a draft of the proposed narrative report and schedule data file to the Government a minimum of two workdays in advance of the meeting. The Contractor's Project Manager and scheduler must attend the meeting with the authorized representative of the Contracting Officer. Superintendents, foremen and major subcontractors must attend the meeting as required to discuss the project schedule and work. Following the periodic schedule update meeting, make corrections to the draft submission. Include only those changes approved by the Government in the submission and invoice for payment.

4-15.3. Red-Zone Meeting

A pre-initial Red Zone meeting will be held to build a schedule of events necessary to achieve project and fiscal completion within **270** days of the Project Beneficial Occupancy Date (BOD). The initial meeting identifies key project milestones, responsibilities, and target task completion dates. Particular attention must be given to the BOD date. The initial Red Zone meeting is held approximately 60 days prior to BOD.

There are three objectives to the initial meeting:

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- 1) Representatives responsible for specific remaining tasks must be identified and be in attendance at the meeting.
- 2) Representatives in attendance must be able to fully identify remaining work necessary to complete their portion of the scope.
- 3) Representatives must commit to finishing the task they are responsible for by the agreed date.

The objective of each follow-on weekly meeting is to discuss and record actual progress of each task. If a specific task appears to be slipping or occurs earlier than the completion date; means methods and resources will be discussed, identified, and committed to maintain the Red Zone Schedule. The impact to related activities is determined and discussed. The entire team is notified of the potential impact to the remaining work. Contractor representatives shall include the required the on-site staff.

4-16. Temporary Facilities and Work Area

Temporary Facilities: Refer to Specification 01 57 19.

Additionally, regarding temporary facilities, provide and maintain within the construction area minimum field type sanitary facilities approved by the Contracting Officer and periodically empty wastes into a municipal, district, or station sanitary sewage system, or remove waste to a commercial facility. Obtain approval from the system owner prior to discharge into any municipal, district, or commercial sanitary sewer system. Any penalties and / or fines associated with improper discharge will be the responsibility of the Contractor. Coordinate with the Contracting Officer and follow station regulations and procedures when discharging into the station sanitary sewer system. Maintain these conveniences at all times without nuisance. Include provisions for pest control and elimination of odors. Government toilet facilities will not be available to Contractor's personnel.

Provide temporary fire protection equipment for the protection of personnel and property during construction. Remove debris and flammable materials daily to minimize potential hazard.

Provide where directed, ample temporary sanitary toilet accommodations with suitable sewer and water connections for personnel.

4-17. Schedule of Available Utilities

The Contractor is responsible for formally requesting temporary/permanent service. The contact information for connection pricing from these utility providers is as follows:

- a. Water & Wastewater: ASUS: (850) 333-9255.
- b. Electric: CHELCO: Telephone: (850) 892-2111.

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Any existing utilities damaged during construction shall be repaired immediately by the Contractor at no cost to the government.

4-18. Temporary Cranes

All cranes shall have a red strobe light and two flags attached to the end of the boom. The flags shall be 18-inches square and international orange in color. The strobe does not need to be flashing during daylight hours or when the boom is lowered to the ground at night. The strobe shall be flashing when operating during weather in which visibility is reduced or when operating at night. The strobe shall remain flashing if the boom remains elevated at night.

All cranes used by the Contractor for construction purposes will require written acceptance for their use by the Contracting Officer. All requests shall be made seven (7) days in advance of the crane's arrival on the job site and shall include such information as latitude and longitude of the crane location, total operating height, mode of transportation and delivery to the project site, period of use and methods of conforming to all safety and airfield operations procedures. Cranes operating at night shall require a red blinking light at the highest point on the crane boom which conforms to Federal Aviation Administration (FAA) requirements and the SPECIAL CONTRACT REQUIREMENT CLAUSE: AIRFIELD SAFETY PRECAUTIONS. FAA Form 7460-1 shall be completed by the Contractor and filed with the FAA. A copy of Form 7460-1 shall also be submitted to the Contracting Officer's representative.

An FAA Form 7460-1 may be required to be completed by the Contractor and filed with the FAA. If required, a copy of Form 7460-1 shall also be submitted to the Contracting Officer's representative. Contractor is responsible for obtaining all necessary FAA Permits for erection of temporary structures. No cranes are allowed on base until the FAA forms are completed and turned into the Contracting Officer.

Address to submit FAA Form 7460-1 is:
Federal Aviation Administration
Southern Regional Office
Air Traffic Division, ASO-530
P.O. Box 20636
Atlanta, GA 30320

Address of the Southern Region Office is:
Southern Region Office
Air Traffic Division, ASO-530
1710 Columbia Avenue
College Park, GA 30337
Tel. 404-305-5585

4-19. Inspection

4-18.1 Acceptance Tests

The contractor shall ensure acceptance test of the following features, parameters, or characteristics. Any personnel radiation hazards on expected work surfaces (i.e. ground, nearby roof tops, etc.), as determined by OSHA standard 1910.97, shall be mitigated. Posting a warning sign shall not constitute adequate mitigation.

1. HVAC with DDC

- 2.

4-18.2 Pre-Final Inspection

The Contractor shall conduct a pre-final walk-through inspection with Base personnel and publish the prefinal inspection findings in a pre-final inspection (punch list) report. The contractor shall include a draft DD Form 1354, Transfer and Acceptance of Real Property to the contracting officer for review.

4-18.3 Final Inspection

The Contractor shall conduct a final inspection with base personnel and publish the findings in a final inspection report. The inspection shall concentrate on the items identified at the pre-final inspection and recorded in the pre-final inspection (punch list) report. A final inspection shall not be performed until the pre-final inspection (punch list) report has been resolved. At the final inspection, the Contractor shall present a completed DD Form 1354, Transfer and Acceptance of Real Property to the Base Civil Engineer (BCE) or other appropriate organization for signature and acceptance, if required.

4-20. Red-line Drawings

The Contractor shall have on his staff, personnel to mark up a set of paper copy construction drawings to show the as-built conditions. These as-built marked copies shall be kept current and available on the job site at all times. All changes from the contract plans which are made in the work or additional information which might be uncovered in the course of construction shall be accurately and neatly recorded, as the events occur, by means of details and notes. The Contractor shall call attention to entries by redlining areas affected. The red line as-built will be jointly inspected for accuracy and completeness by the Contracting Officer's representative and a responsible representative of the Contractor prior to submittal of each request for payment. The Contracting Officer's approval of the current status of the as-built drawings shall be a prerequisite to the Contracting Officer's approval of request for progress payment and request for final payment under the contract. The drawings shall show the following information, but not be limited thereto:

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- (1) The location and description of any utility lines or other installations of any kind or description known to exist within the construction area. The location includes dimensions to permanent features.
- (2) The location and dimensions of any changes within the building or structures.
- (3) Correct grade or alignment of roads, structures or utilities if any changes were made from contract plans.
- (4) Changes in details of design or additional information obtained from working drawings specified to be prepared and/or furnished by the Contractor including but not limited to fabrication, erection, installation plans and placing details, pipe sizes, insulation material, dimensions of equipment foundations, etc.
- (5) All changes or modifications which result from the final inspection.
- (6) Options: Where contract drawings or specifications allow options, only the option selected for construction shall be shown on the as-built drawings.
- (7) Extensions of Design: Shop Drawings such as structural fabrication and erection drawings and fire alarm & fire suppression systems that will require extensive redrafting effort will be included as an Appendix to the paper copy set and provided in .PDF format for inclusion on the same CD-ROM as the other electronically submitted set of drawings.

The Contractor shall participate in monthly review meetings with the Contracting Officer's Representative to show the progress made the preceding month and make all required changes. Prior to final construction inspection, the Contractor shall submit one copy of the red lined as-built drawings to the Contracting Officer's Representative for review and approval. The as-built drawings shall be certified as to their correctness by the signature of an authorized representative of the Contractor.

4-21. As-Built Drawings

Copies of the drawings will be the responsibility of the Contractor. The as-built drawings shall be a record of the construction as installed and completed by the Contractor. They shall include all the information shown on the contract set of drawings and a record of all deviations, modifications, or changes from those drawings which were incorporated in the work; all additional work not appearing on the contract drawings; and all changes which are made after final inspection of the contract work. In the event the Contractor accomplishes additional work which changes the as-built conditions of the facility after submission of the as-built drawings, the Contractor shall furnish revised and/or additional drawings as required to depict as-built conditions. The requirements for these additional drawings will be the same as for the as-built drawings included in the original submittal.

4-20.1 General

- As-built drawings shall be submitted in a version of AutoCAD that is coordinated with 96 CEG drafting section at time of submission.

- The as-built DWG files shall have no reference files attached as all shall be bound into the file to make one AutoCAD DWG file, which also shall be purged and created with standard AutoCAD pen table.
- Scaled drawings should provide a bar scale and shall be in feet not meters. Contractor shall provide 1 hard copy of as-built on Arch D sheet size and 2 CD's in AutoCAD and PDF.
- The as-built DWG files shall have the Design model physical features such as floor plans and civil site plans in Model Space. Sheet features such as title blocks, notes, north arrows and scale bar will be in the Layout View (Paper Space).
- Final As-builts shall include the assigned building number in the title block and Air Force FTFA number.

4-20.2 Other Requirements

- AutoCAD drawings shall have correct geometry:
 - Segmented lines and arcs are to be made continuous and free of self-overlapping sections, thus decreasing files size and increasing efficiency within the AutoCAD platform.
 - All AutoCAD data shall be free of topological errors such as slivers, undershoots, overshoots dangles, overlaps, intersections, etc.
 - Area features such as building footprints, parking lots, roadways, and airfield pavements shall be true polyline polygons. Adjacent polygons shall not have gaps or overlaps.
- AutoCAD drawings shall be checked for correct spatial projection to one of the following:
 - North American Datum 1983 Florida State Plane North FIPS 0903 Feet (AutoCAD Code FL 83-NF).
 - Universal Transverse Mercator 1984, Zone 16 North (AutoCAD Code UTM84-16N).
- Any Building Information Models (BIM) developed for a project shall be supplied in a Model Archive as part of the final as-built submittal consisting of two sets of files:
 - The first set shall be a collection of individual Models as received from the Model Element Author(s).
 - The second set of files shall consist of the aggregate of those individual Models in a format suitable for archiving and viewing. The aggregate model shall also be submitted in a DWG file format.
- Drawings submitted for approval as as-builts shall have all changes incorporated into the final drawings.
 - Drawings shall be free of revision clouds, hand-written notes, scanned in change orders, etc.

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- Revision symbols shall be accompanied with an entry in the sheet's revision block. Revision block entries shall consist of a brief description of the change along with the change order number.
- Each sheet shall be annotated in bold letters near the title block with the date the as-builts were accepted (i.e. AS-BUILT DRAWING 12 APR 2012).

4-22. DD Form 1354

Using the blank DD Form 1354 provided by the Government, the Contractor shall submit a Draft DD Form 1354 no later than 50% completion of the project. Using this Draft DD Form 1354, the Contractor shall submit the Interim DD Form 1354 for the project no later than fourteen (14) days prior to the Beneficial Occupancy Date (BOD). Category Code numbers found on the DD Form 1354 Checklist provided at the end of this section shall be used in completing the Final DD Form 1354. Additional Category Codes can be found in the publication entitled "Air Force Real Property Category Code Descriptions" which can be obtained from the Directorate of Technical Support, Air Force Civil Engineer Support Agency, Tyndall AFB, FL 32403-5319 and must be coordinated with 96 CEG Real Property office at "Draft" submission.

----- END OF SECTION -----

5. ADDITIONAL ENCLOSURES

5-1. Eglin Specific Criteria (AVAILABLE UPON REQUEST)

- Eglin Engineering Design Manual (Feb. 2019)
- Eglin Architectural Compatibility Plan 2023
- Eglin Alarm Requirements (Feb. 2023)
- CHELCO Requirements
- Eglin 96 Comm Squadron Design Guide (Jan. 2024)
- UFC 1-200-01 DoD Building Code
- Florida Building Code 8th Edition 2023
- ADA Standards for Accessible Design (Current Edition)
- NFPA 101 (2024 Edition)
- ACI 301-16 and ACI 318-19
- National Electrical Code (NEC, 2020 Edition)
- NFPA 70E 2022
- UFC 3-520-01, Interior Electrical Systems
- SMACNA HVAC Duct Construction Standards – Metal and Flexible, 4th Edition
- Eglin 96 CEG As-Built Requirements

5-2. Applicable Standards Contractors & Installers Shall Adhere To:

- National Electrical Code (NEC) and National Electrical Manufacturers Association (NEMA) Standards: NFPA 70
- Unified Facilities Criteria: (UFC) 3-520-1, 3-580-1, 4-010-06 dated most recent.
- American National Standards Institute/Telecommunications Industry Association (ANSI/TIA) Standards: 568, 569, 606, 607 dated most recent.
- National Electrical Contractors Association/Fiber Optic Association: (NECA/FOA) 301-2016 Installing and Testing Fiber Optics
- Building Industry Consulting Service International (BICSI) - Telecommunications Distribution Methods Manual 14, Industry Best Practices “Preferred”
- 96th Communications Squadron Cyber Infrastructure Standards and Installation Specifications, to include Applicable Publications and Standards referenced in Attachment G, dated NOV 2022
- All DoD and Industry standards/guidelines shall be used to provide a complete system, from end to end. Note: Since Standards are continually being revised, contractors and installers should refer to the latest version of any relevant standard for compliance.

Communications Deliverables: Contractor/Installer shall provide for review final ISP/OSP copper or fiber test report(s) and as-built/as-installed drawings prior to

scheduling a final quality assurance inspection. Note: Deliverable guidance can be found in the 96 CS Cyber Infrastructure Standards and Installation Specifications.

5-3. 50 Division MasterFormat Excel Spreadsheet (AVAILABLE UPON REQUEST)

5-4. Request for Information (RFI) Form (AVAILABLE UPON REQUEST)

5-5. Existing Utilities Located in the Area (AVAILABLE UPON REQUEST)

----- END OF SECTION -----

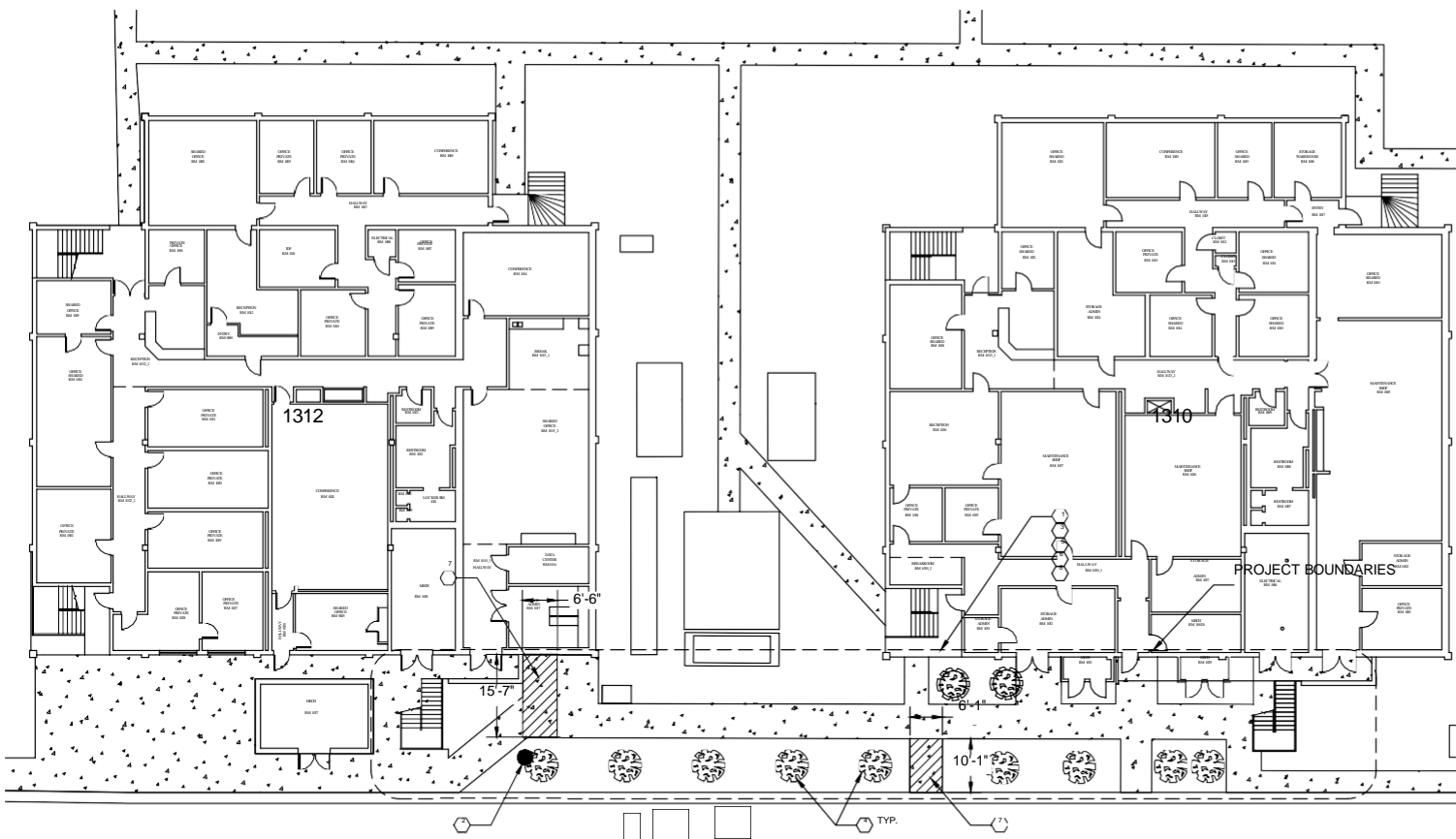
Remodel Restrooms, Breakroom, Secure Space
Bldg. 1312
Eglin AFB, FL

FTFA 24 MM04

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APPENDIX A EXISTING PLANS

TEAM:
INTERVIEW SHEET:
CATCODE:
EXTERIOR WALL: 1
INTERIOR WALL:
NORTH ARROW:
ADJOINING STR.:
LIST UNIT/FLIGHT & ROOM#S: 1 2



1 CIVIL DEMO AND NEW WORK
Scale: 3/32" = 1' - 0"

CIVIL - DEMO AND NEW WORK

- 1 EXCAVATE EXISTING SOIL AND VEGETATION TO A DEPTH OF 4" IN SPECIFIED AREAS
- 2 REMOVE TREE STUMP AND BACKFILL
- 3 PLACE LANDSCAPING CURBING/EDGING BETWEEN GRASS AND NEWLY LANDSCAPED AREAS
- 4 PLANT ZERO-SCAPE OR PLASTIC NO-MAINTENANCE PLANTS IN SPECIFIED AREAS
- 5 INSTALL WEED BLOCK FILTER FABRIC ALONG LEVEL EXCAVATED AREA
- 6 BACKFILL EXCAVATED AREAS WITH RIVER ROCK LANDSCAPING
- 7 REPAIR THE TWO SPECIFIED SECTIONS OF SIDEWALK BY DEMOLISHING THE EXISTING SECTIONS AND RE-POURING NEW CONCRETE SIDEWALK
- 8 PRESSURE WASH SIDEWALKS AND CURBING TO REMOVE SOIL/STAINING AND WEEDS

AS-BUILT 20 DECEMBER 2023

REVISION	DATE	DESCRIPTION	BY	APPRD
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
SABER PROJECT MANAGER		TITLE		
DATE	SIGNATURE	RENOVATE 350SWW HQ LANDSCAPE BLDG. 1312		
APPROVED				
CENM				
DRAWN BY - A. LEAVENWORTH				
PROJ. ENGR. S. BILEY		CONTENTS		
SABER DRAWING BASED ON AS-BUILT		CIVIL DEMO AND NEW WORK		
APPROVED		DATE	20 DECEMBER 2023	
APPROVED		SCALE	1/4" = 1' - 0"	
BASE CIVIL ENGINEER		INDEX NO.	FILE NO.	SHEET 2 OF 3
SPEC. NO.	PROJ. NO. FTFA 23-VH85	DRAWING NO.	C-101	



Remodel Restrooms, Breakroom, Secure Space
Bldg. 1312
Eglin AFB, FL

FTFA 24 MM04

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APPENDIX B 96 CS INPUTS

Statement of Objectives (SOO) Inputs
CIPS 5.0 WO number: 96TW-2023-00256
For B1312, Eglin AFB, Florida

Scope:

- Provide a technical solution and an independent government estimate (IGE) for *the installation, termination, labeling, testing and as-built(s) deliverables.*
- Installation of new telecommunications pathway and cabling in B1312.

APPLICABLE STANDARDS CONTRACTORS & INSTALLERS SHALL ADHERE TO:

Standards shall be used as a baseline of quality and craftsmanship for installing communications products and systems connectivity the AFNET

National Electrical Code (NEC) and National Electrical Manufacturers Association (NEMA) Standards: NFPA 70

Unified Facilities Criteria: (UFC) 3-520-1, 3-580-1, 4-010-06 dated most recent.

American National Standards Institute/Telecommunications Industry Association (ANSI/TIA) Standards: 568, 569, 606, 607 dated most recent.

National Electrical Contractors Association/Fiber Optic Association: (NECA/FOA) 301-2016 Installing and Testing Fiber Optics

Building Industry Consulting Service International (BICSI) - Telecommunications Distribution Methods Manual 14, Industry Best Practices “Preferred”

96th Communications Squadron Cyber Infrastructure Standards and Installation Specifications, to include Applicable Publications and Standards referenced in Attachment G, dated JAN 2024

All DoD and Industry standards/guidelines shall be used to provide a complete system, from end to end. Note: *Since Standards are continually being revised, contractors and installers should refer to the latest version of any relevant standard for compliance.*

Communications Deliverables: Contractor/Installer shall provide for review final ISP/OSP copper or fiber test report(s) and as-built/as-installed drawings prior to scheduling a final quality assurance inspection. Note: Deliverable guidance can be found in the 96 CS Cyber Infrastructure Standards and Installation Specifications.

Specific Task Objectives:

- Contractor shall provide a telecom product submittal including a list of the products they plan to provide, along with corresponding part numbers and quantities, for technical approval prior to purchase and installation.
- This statement outlines that the technical solutions provided are offered as recommendations. The contractor is obligated to undertake the design and engineering process in compliance with all relevant and applicable standards.

1st Floor

- Totals:
 - Total new outlets required: 174
 - Total new 4-strand (NIPR/SIPR) MM cables required: 132
 - +(2) 24 strand MM cables connecting NIPR CR113 to SCIF area Comm Cabinets
 - Total new 2-strand (Enclave Networks) MM cables required: 120
 - Total new SIPR Duplex ports required: 96
 - Total new NIPR Duplex ports required:
 - Work Area Outlets Ports: 168
 - SCIF Comm Room: 24 (12 for each)
 - Total new Enclave Duplex ports required: 120
 - Total ISP SM Tie cables to replace: 5
 - Total Removal Estimates
 - Multiple telecommunications cables (50 pair, 25 pair etc...)
 - (186) Cat5/6 Cables
 - (5) ISP Fiber Tie Cables
- Vertical Raceway/EMT servicing a majority of the locations will be required where existing pathways cannot be re-used.
- Appropriately sized cable tray will be required where practical. J-hooks shall be used for no more than 20% of permanent link total length.
- Removal of all existing CAT6/CAT5/telephone drops/copper telecommunications cabling completely to patch panels and termination blocks (1st floor Comm Room) in the areas of renovation.

- Contractor must account for existing Fiber Optic Trunk cables connecting to the other comm rooms in the building by replacing current runs between existing comm room and various racks. Replacement cables will be terminated into NIPR Rack in new 1st floor comm room location (CR 114). Contractor shall also install minimum of (1)1.25-inch plenum innerduct between each location. Cables installation lengths are no more than 200-feet for each run. Cables and counts as follows:
 - 12-strand SM to Room 202
 - 12-strand SM to Room 207
 - 12-strand SM to Room 119D
 - (2)12-strand SM to 200E
- Install 84-total Non-secure Internet Protocol Router (NIPR), green OM3 4-strand MM Plenum fiber optic tight buffered or MIC indoor cable(s). Contractor shall use existing 4-post rack to terminate FO cable. All terminations will utilize LC type connectors. Downward sloped 4 port face plates with label windows shall be used in work area. A minimum of two duplex connectors shall be provided for each work area. All NIPR for 1st floor (including SCIF areas) will originate in 1st floor Comm Room (CR113). NIPR will not be co-located at the outlet with any other network.
- Install 48-total Secure Internet Protocol Router (SIPR), red OM3 4-strand MM Plenum fiber optic tight buffered or MIC indoor cable(s). Terminate FO cable in cabinet/rack-mounted patch panels, and at the outlet using LC type connectors. Downward sloped 4 port face plates with label windows shall be used in work area. A minimum of two duplex connectors shall be provided for each work area. SIPR will not be co-located at the outlet with any other network.
- Install 2-total (one to each proposed SCIF) Non-secure Internet Protocol Router (NIPR), green OM3 24-strand MM Plenum fiber optic tight buffered or MIC indoor cable(s) between NIPR comm room and SCIFs for uplink to TACLANes. Terminate FO cable in cabinet/rack-mounted patch panels or separate wall mount patch panel, using LC type connectors.
- Contractor will co-locate blue, yellow, orange, and purple networks into a single outlet on the work area side. For the Comm Room side, each network should ideally have its own dedicated patch panel corresponding to each color, although it is not mandatory. Terminate FO cable in cabinet/rack-mounted patch panels, and at the outlet using LC type connectors. For each proposed SCIF area, all cables with a secure classification shall be internal to the area. Downward oriented outlets with label windows shall be used in work area. A minimum of one duplex connector shall be provided for each network at each work area location as shown in drawing T-001.
- In both SCIF areas, contractor shall install appropriately sized wall-mount cabinets in locations referenced in drawing T-001. All communications cabinet locations will require fire-rated back boards bearing the qualities of applicable standards and of sufficient size to allow for mounting of cabinets and bonding busbars.

- Contractor will ensure each new cabinet installed in the SCIF areas have the following:
 - (1) 120V/20A dedicated circuit with Quad receptacle and one (1) 120V/30A dedicated circuit with NEMA L5-30R receptacle, both mounted at the base of the rack with receptacles facing towards the rear of the rack.
- Telecommunications Rooms Grounding and Bonding: Contractor shall install telecommunications copper Primary Busbar (PBB) **in 1st floor Comm Room (CR113)** and Secondary Busbar (SBB) on backboards where secure cabinets will be mounted in **both SCIFs** with conductors suitable for indoor installation in accordance with ANSI/TIA-607. Busbar(s) and conductor(s) must be made of copper or copper alloys having a minimum of 95% conductivity. Install ground conductor of appropriate sizing (#6 AWG up to #750 MCM) from the telecommunication room busbar location to the main building or servicing floor electrical panel in EMT conduit. Conduit shall be identified, tagged or labeled from point-to-point as Telecommunications Bonding Conductor (TBC). Connections of the TBC and the Telecommunications Bonding Backbone (TBB) shall utilize UL listed compression two-hole lugs or two-hole irreversible crimp connector. The following items shall be attached to the SBB...cable tray, cable ladder, racks, cabinets, metal conduits and PETs.

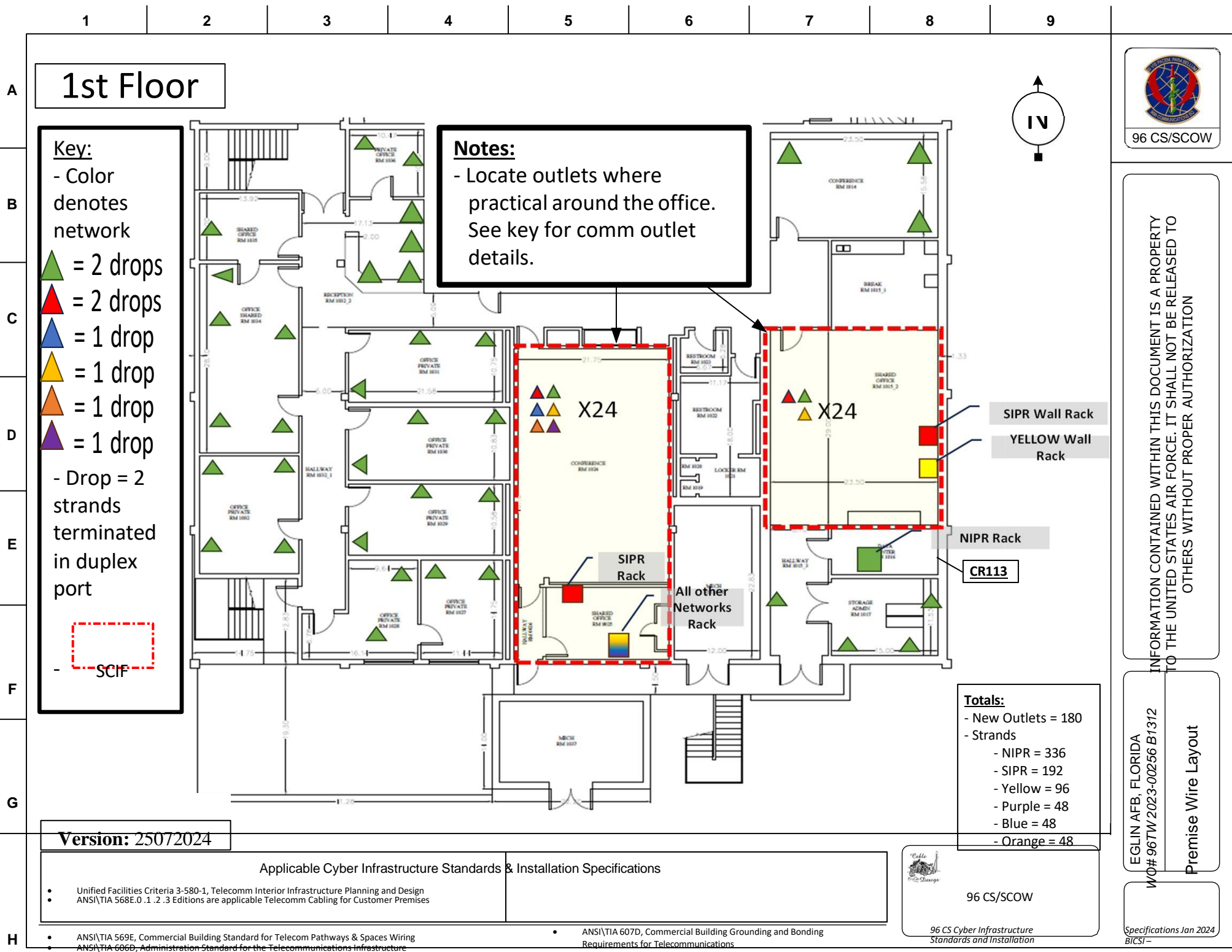
2nd Floor

- Totals:
 - Total new 4-strand (NIPR/SIPR) MM cables required: 30
 - Total new NIPR CAT 6 cables required: 56
 - Total new SIPR Duplex ports required: 18
 - Total new NIPR Duplex ports required: 42
 - Removal Estimate: 100+ CAT5/6 cables
- In existing comm room 210, installer shall place fire rated backboard on Northeast wall closest to stairwell and adjacent wall.
- Vertical Raceway/EMT servicing a majority of the locations will be required where existing pathways cannot be re-used.
- Appropriately sized cable tray will be required where practical. J-hooks shall be used for no more than 20% of permanent link total length.
- Removal of all existing CAT6/CAT5/telephone drops/copper telecommunications cabling completely to patch panels and termination blocks (1st floor Comm Room/2nd floor comm cabinet) in the areas of renovation.
- Telecommunications Rooms Grounding and Bonding: Contractor shall install telecommunications copper Secondary Busbar (SBB) **in comm room 210 and closet**

inside room 215 with conductors suitable for indoor installation in accordance with ANSI/TIA-607. Busbar(s) and conductor(s) must be made of copper or copper alloys having a minimum of 95% conductivity. Install ground conductor of appropriate sizing (#6 AWG up to #750 MCM) from the telecommunication room busbar location to the main building or servicing floor electrical panel in EMT conduit. Conduit shall be identified, tagged or labeled from point-to-point as Telecommunications Bonding Conductor (TBC). Connections of the TBC and the Telecommunications Bonding Backbone (TBB) shall utilize UL listed compression two-hole lugs or two-hole irreversible crimp connector. The following items shall be attached to the SBB...cable tray, cable ladder, racks, cabinets, metal conduits and PETs.

- Power Requirements: In comm room 210, 4-post lockable enclosure shall have one (1) 120V/20A dedicated circuit with Quad receptacle and one (1) 120V/30A dedicated circuit with NEMA L5-30R receptacle, both mounted at the base of the rack with receptacles facing towards the rear of the rack. Power within 210 needs to be fed from the power panel that is on the generator. In comm room 215, wall mount lockable cabinet shall have one (1) 120V/20A dedicated circuit with Quad receptacle mounted at the base of the rack with the receptacle facing towards rear of rack.
- Contractor shall install within both comm rooms, an appropriate HVAC in accordance with the UFC 3-580-01.
- **In comm room 210:**
 - Install a 4-post cabinet enclosure (GL790ES-2442MS or equal) with a side car cable manager and end panels (SC67942 & SCP7942 or equal), a vertical cable trough and cover (VCT-79 & VCT-79C or equal), with the cabinet sides "in-line" with the existing Lockheed-Martin Cabinets; against the wall. Front door of cabinet shall face entryway and rear door shall face exterior wall.
 - Install FODP and Fiber Optic panels with LC bulkheads for NIPR cabling.
 - Install 48-port modular, shielded patch panels capable of accepting Mini-Comm style connectors.
 - See below for additional requirements.
- **In comm room 215;** closet inside of newly secure area (reference T-001):
 - Install backboard and a wall mount cabinet (GL24WMCMS-B-SH-AF-CM or equal) onto newly installed backboard.
 - Install Secondary Bonding Busbar shall onto backboard.
 - Install OM3 ISP plenum rated NIPR fiber cable in wall outlet for TACLANE uplink.
 - Install FODP and with LC bulkheads for SIPR cabling.

- See below for additional requirements.
- **Telecommunications Rooms Grounding and Bonding:** Contractor shall install telecommunications copper Secondary Busbar (SBB) **in comm room 210 and closet inside room 215** with conductors suitable for indoor installation in accordance with ANSI/TIA-607. Busbar(s) and conductor(s) must be made of copper or copper alloys having a minimum of 95% conductivity. Install ground conductor of appropriate sizing (#6 AWG up to #750 MCM) from the telecommunication room busbar location to the main building or servicing floor electrical panel in EMT conduit. Conduit shall be identified, tagged or labeled from point-to-point as Telecommunications Bonding Conductor (TBC). Connections of the TBC and the Telecommunications Bonding Backbone (TBB) shall utilize UL listed compression two-hole lugs or two-hole irreversible crimp connector. The following items shall be attached to the SBB...cable tray, cable ladder, racks, cabinets, metal conduits and PETs.
- **Power Requirements:** In comm room 210, 4-post lockable enclosure shall have one (1) 120V/20A dedicated circuit with Quad receptacle and one (1) 120V/30A dedicated circuit with NEMA L5-30R receptacle, both mounted at the base of the rack with receptacles facing towards the rear of the rack. Power within 210 needs to be fed from the power panel that is on the generator. In comm room 215, wall mount lockable cabinet shall have one (1) 120V/20A dedicated circuit with Quad receptacle mounted at the base of the rack with the receptacle facing towards rear of rack.
- Contractor shall install within both comm room 210 and closet inside room 215, an appropriate HVAC in accordance with the UFC 3-580-01.



1st Floor

Key:

- Color denotes network
- ▲ = 2 drops
- ▲ = 2 drops
- ▲ = 1 drop
- ▲ = 1 drop
- ▲ = 1 drop
- ▲ = 1 drop
- Drop = 2 strands terminated in duplex port
- SCIF

Notes:

- Locate outlets where practical around the office. See key for comm outlet details.



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Totals:

- New Outlets = 180
- Strands
- NIPR = 336
- SIPR = 192
- Yellow = 96
- Purple = 48
- Blue = 48
- Orange = 48

Version: 25072024

Applicable Cyber Infrastructure Standards & Installation Specifications

- Unified Facilities Criteria 3-580-1, Telecomm Interior Infrastructure Planning and Design
ANSI/TIA 568E.0 .1 .2 .3 Editions are applicable Telecomm Cabling for Customer Premises

96 CS/SCOW

96 CS Cyber Infrastructure Standards and Installation

EGLIN AFB, FLORIDA
 WFO# 96TW 2023-00256 B1312
 Premise Wire Layout

- ANSI/TIA 569E, Commercial Building Standard for Telecom Pathways & Spaces Wiring
- ANSI/TIA 606D, Administration Standard for the Telecommunications Infrastructure
- ANSI/TIA 607D, Commercial Building Grounding and Bonding Requirements for Telecommunications

Specifications Jan 2024
BICSI

101 GRIFFIN WAY
BLDG 1429, ROOM 120 EGLIN AFB, FL 32542-5707

SHEET ID
T-001

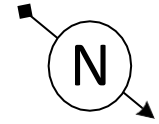
1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G

2nd Floor

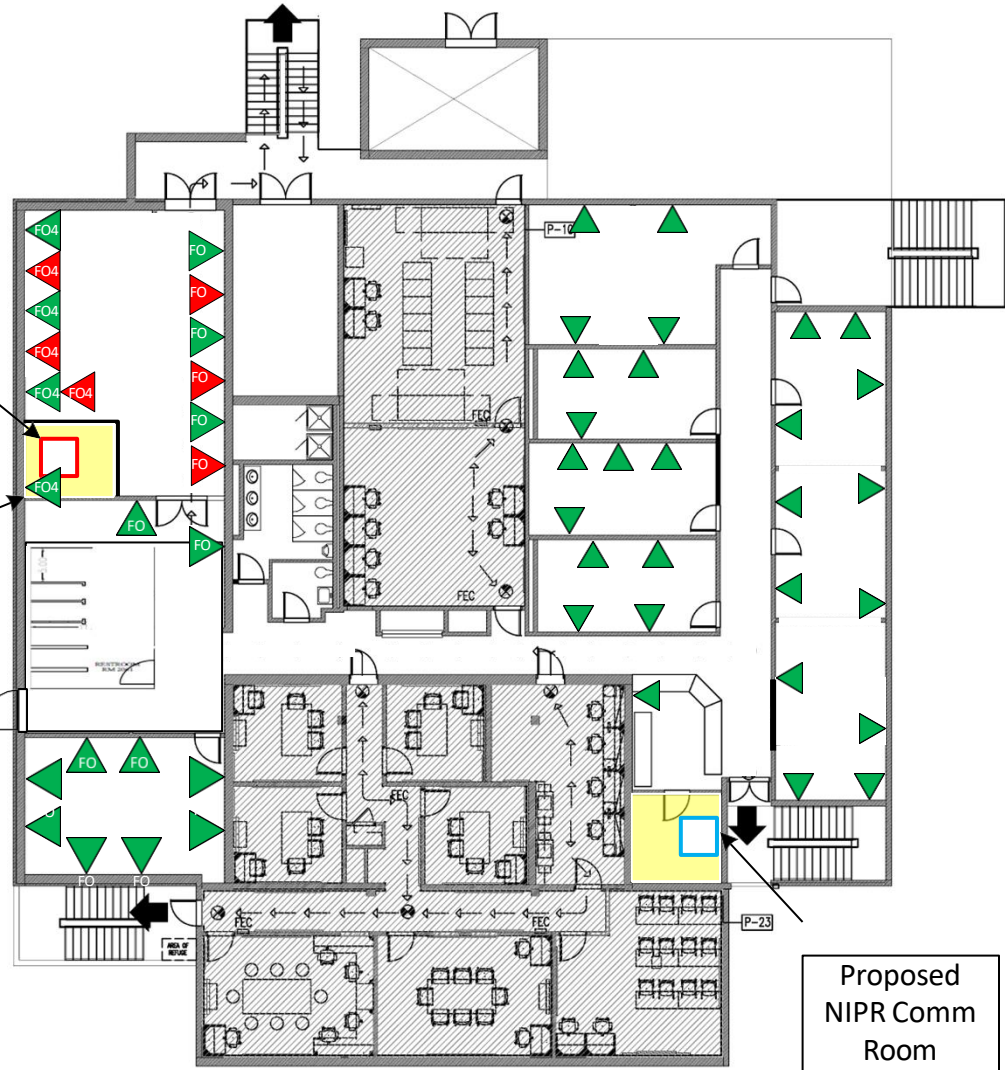


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Wall Mount SIPR cabinet
SIPR Comm Room

- Notes:**
- Drop = 2 strands terminated in duplex port or 2 CAT 6 cables if copper
 - Each triangle represents 2 drops unless listed otherwise
 - = CAT 6
 - = OM3 Fiber



Proposed NIPR Comm Room 210

- Totals:**
- New Outlets:**
- NIPR CAT 6 = 28
 - NIPR Fiber = 17
 - SIPR Fiber = 6
- Strands:**
- NIPR = 84
 - SIPR = 36

Version: 25042024

Applicable Cyber Infrastructure Standards & Installation Specifications

- Unified Facilities Criteria 3-580-1, Telecomm Interior Infrastructure Planning and Design
- ANSI/TIA 568E.0 .1 .2 .3 Editions are applicable Telecomm Cabling for Customer Premises

96 CS/SCOW

96 CS Cyber Infrastructure Standards and Installation Specifications JAN 2024

- ANSI/TIA 569E, Commercial Building Standard for Telecom Pathways & Spaces Wiring
- ANSI/TIA 606D, Administration Standard for the Telecommunications Infrastructure
- ANSI/ISA 607B, Commercial Building Grounding and Bonding Requirements for Telecommunications

EGLIN AFB, FLORIDA
WO# 96TW 2023-00256 B1312
Premise Wire Layout

BICSI - Telecommunications Distribution Methods Manual 14th Edition (Best Practices)

H

101 GRIFFIN WAY
BLDG 1429, ROOM 120 EGLIN AFB, FL 32542-5707

SHEET ID
T-002



DEPARTMENT OF THE AIR FORCE
AIR FORCE TEST CENTER – AFTC/PZ
EGLIN AFB, FLORIDA

NWF Air Force Multiple Award Construction Contract (MACC)
Fair Opportunity Proposal Request (FOPR)

Aug 20, 2024

MEMORANDUM FOR ALL NWF AIR FORCE MACC CONTRACTORS

FROM: AFTC/PZIOC
308 W. D AVENUE
STE 130, B260
EGLIN AFB, FL 32542

SUBJECT: FOPR AMENDMENT 2 - Project: FTFA24MM04, RPR - Remodel Restrooms, Breakroom, Secure Space Bldg 1312

1. The purpose of this amendment is to extend the proposal due date, update point of contact and provide a revised Statement of Work dated 20 August 2024.
- See attachment 1
2. All other terms of the original FOPR remain in effect.
3. Proposal Due Date: All offers must be submitted no later than **27 August 2024 at 1200 CENTRAL STANDARD TIME**. Offers must be emailed to both of the following point of contacts (POC):

Contract Specialist: 2nd Lt Ndap Tah	ndap.tah.1@us.af.mil
Contracting Officer: 1st Lt Kevin R. Caster	kevin.caster.1@us.af.mil

For any questions or information regarding this solicitation feel free to contact 2nd Lt Ndap T. Tah at ndap.tah.1@us.af.mil or 1st Lt Kevin R. Caster at kevin.caster.1@us.af.mil

KEVIN R. CASTER
Contracting Officer

List of Attachments:

1. Attachment 1 - Statement of Work, 20 August 2024, 64 pages.
2. Attachment 1A – Wage Determination – FL20240217, dated 5 Jan 2024
3. Attachment 2 - Technical Experience Project Reference
4. Attachment 3 - 50 Division Cost Estimating Worksheet, 50 pages