



CIRCUIT 20 WEST  
MCLB Albany, Albany, Georgia

EPROJECT # 1126062  
MCLB Albany WO# - 395895

June 7, 2011

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### Preface

This Request for Proposal (RFP) consists of six parts. Part 1 contains typical contractual forms, procedures, bidding instructions, bond information, clauses and wage decisions. Part 2 contains general contract administrative and execution requirements including, but not limited to safety, design criteria & process, quality control, security, schedule, invoicing, temporary facilities, and design and construction oversight processes. Part 2, Attachment A, contains project-specific general requirements that may either modify and/or supplement the corresponding standard paragraphs in the Part 2 "General Requirements" section. Part 3 lists the project requirements, specific scope items, and expected quality level above and beyond those outlined in Part 4. Part 4 contains Performance Specifications and minimum quality requirements. Part 5, prescriptive specifications, is typically not used in this Small Project format. Part 6 contains background project information, references, and other project-specific requirements.

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## Small Project Part 2 General Requirements

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**DEFINITIONS:** As used throughout the contract, the following terms shall have the meaning set forth below:

**Contracting Officer (KO):** The individual designated to administer the contract. Throughout this contract this individual will be responsible and possess the authority to act on behalf of the Government with respect to the specific contract.

**Contracting Officer Representative (COR):** The individual designated by the Contracting Officer as the authorized representative of the Contracting Officer. The COR is responsible for monitoring performance and technical management of the effort required and should be contacted regarding questions or problems of a technical nature.

**Contractor:** The term Contractor refers to both the prime Contractor and subcontractors, including the Designer of Record.

**Designer of Record (DOR):** Licensed architect/engineer working as subcontractor to or partner with prime Contractor who provides design for this contract.

**Quality Control (QC):** Contractor's system to control the quality of design, material, equipment and construction.

**Quality Assurance (QA) Program:** Government's program to evaluate the effectiveness of the Contractor's quality control. The Government's QA Program is not a substitute for the Contractor's QC Program.

**Federal Holidays:** New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day; Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, and Christmas Day.

**Contract:** Contract or task order.

1. **ORDER OF PRECEDENCE:** NFAS Clause 5252.236-9312. In the event of conflict or inconsistency between any of the below described portions of the confirmed contract, precedence shall be given in the following order:

- a. Any portions of the proposal or final design that exceed the requirements of the solicitation.
  - 1) Any portion of the proposal that exceeds the final design.
  - 2) Any portion of the final design that exceeds the proposal.
  - 3) Where portions within either the proposal or the final design conflict, the portion that most exceeds the requirements of the solicitation has precedence.
- b. The requirements of the solicitation, in descending order of precedence:
  - 1) Standard Form 1442, Price Schedule, and Davis Bacon wage rates.
  - 2) Part 1 – Contract Clauses.

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- 3) Part 2 – General Requirements.
- 4) Part 3 – Statement of Work/Project Program Requirements.
- 5) Part 6 – Attachments (excluding Concept Drawings).
- 6) Part 5 – Prescriptive Specifications, exclusive of performance specifications.
- 7) Part 4 – Minimum Materials, Engineering and Construction Requirements, exclusive of prescriptive specifications.
- 8) Part 6 – Attachments (including Concept Drawings).

2. **POST AWARD KICKOFF MEETING (PAK):** Prior to commencement of design, and within 14 calendar days of award, meet with representatives of the Contracting Officer, installation and client to present the concept design for discussion and acceptance. The project team will develop a mutual understanding relative to the approved proposal, safety program, environmental permits and requirements, quality control procedures, and design and construction schedule. During the meeting, Contractor shall propose and gain acceptance for any critical path work activities requiring advance submittal and approval. If the contract includes work on any fire protection system, including fire alarm and mass notification systems, the Contractor and the appropriate DOR shall meet with the NAVFAC Fire Protection Engineer (FPE) to establish clear expectations of fire protection requirements of the project.

The Contractor's key personnel shall attend at the expense of the Contractor. Key personnel are defined as the Project Manager, Superintendent, CQC representative(s), DOR, major subcontractors and specialized supplementary personnel.

The PAK includes partnering, held during normal work hours with the non-labor –related costs shared by both parties. Partnering is a structured process, as well as philosophy of doing business with Contractors and clients that recognizes common goals through communication and teamwork. It helps create an environment where trust and teamwork prevent disputes, foster good working relationships to everyone's benefit, and facilitate the completion of a successful contract. If included in Attachment A, a Performance Assessment Plan that provides monthly performance feedback to the Contractor, will be discussed during the partnering session.

Key personnel will meet to identify strategies to ensure the project is carried to expeditious closure and turnover to the Client. Start the turnover process at the PAK Meeting utilizing the NAVFAC Red Zone (NRZ) Checklist and convene the Facility Turnover Meetings once the project has reached approximately 75% completion or 3 to 6 months prior to Beneficial Occupancy Date (BOD), whichever comes first. The Contracting Officer's Representative will lead the meetings and guide the discussions based on an agenda provided by the Government. The Facility Turnover effort shall fill in the NRZ Checklist including Contractor, Client, and NAVFAC Checklist Items and assign a person to be responsible for each item and a due date. The Contracting Officer's Representative will facilitate the assignment of responsibilities and fill out the NRZ Checklist. The Contracting Officer's Representative shall develop a Plan of Action and Milestones (POAM) for the completion of all Contractor, Client, and NAVFAC Checklist items.

3. **DESIGN:** Design is the work necessary to ensure functionality, quality, and safety for critical facets of the project. Special coordination requirements, such as for phone, LAN and cable, are included in Attachment A.

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- a. Provide work in compliance with the following design standards and codes, as a minimum. Government standards listed in this RFP take precedence over industry standards.

This RFP references published standards, the titles of which can be found in the Unified Master Reference List (UMRL) on the Whole Building Design Guide at the Unified Facilities Guide Specification (UFGS) Website. The publications referenced form a part of this specification to the extent referenced.

The advisory provisions of all codes, requirements, and standards shall be mandatory; substitute words such as "shall", "must", or "required" for words such as "should", "may", or "recommended," wherever they appear. The results of these wording substitutions incorporate these code and standard statements as requirements. Reference to the "authority having jurisdiction" shall be interpreted to mean "Contracting Officer". Comply with the required and advisory portions of the current edition of the standard at the time of contract solicitation.

The following list of codes and standards is not comprehensive and is augmented by other codes and standards referenced and cross-referenced in the RFP. Refer to Parts 3 and 4 for specific requirements within other UFC's.

- a) UFC 1-200-01, *General Building Requirements*
  - b) UFC 1-300-08, *Criteria for Transfer and Acceptance of Military Real Property*
  - c) UFC 1-300-09N, *Design Procedures*
  - d) UFC 3-560-01, *Electrical Safety, O&M*
  - e) UFC 3-600-01, *Fire Protection Engineering for Facilities*
  - f) UFC 3-600-10N, *Fire Protection Engineering*
  - g) UFC 3-800-10N, *Environmental Engineering for Facility Construction*
  - h) UFC 4-010-01, *DoD Minimum Antiterrorism Standards for Buildings*
  - i) UFC 4-020-01, *Security Engineering: Facilities Planning Manual*
- b. Provide professional registration and design signing and stamping requirements per requirements of UFC 1-300-09N, *Design Procedures*.
  - c. See Attachment A for project-specific submittal requirements.

5. **FIRE PROTECTION AND LIFE SAFETY REQUIREMENTS:** Work shall comply with applicable criteria identified herein and Attachment A. Any project including work on means of egress, fire rated elements, Fire Suppression, Mass Notification, or Fire Alarm Systems shall require the services of a Registered Fire Protection Engineer per Attachment A.

- a. Final Life Safety/Fire Protection Certification Documentation: Unless otherwise specified in Attachment A, provide certification that all life safety and fire protection features and systems have been installed in accordance with applicable criteria, the contract documents, approved submittals, and manufacturer's requirements. This certification shall summarize all life safety and fire protection features.

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6. **QUALITY CONTROL:** Maintain quality control for and inspect all work under the contract. The DOR, as a member of the Contractor QC organization, shall remain directly involved during the construction process. For certain projects, the Quality Control Manager, Superintendent, and Site Safety and Health Officer may be combined – see paragraphs 6 and 34 in Attachment A. Further QC requirements are identified in Attachment A.

- a. Submit a QC Plan for Government review and acceptance. The QC plan shall include the following:
  - 1) **NAMES, QUALIFICATIONS and RESPONSIBILITIES:** For each person in the QC organization (design and construction).
  - 2) **OUTSIDE ORGANIZATIONS:** Outside organizations, including architectural and consulting engineering firms and a description of the services these firms will provide.
  - 3) **INITIAL SUBMITTAL REGISTER (DESIGN & CONSTRUCTION):** Include submittal reviewer, estimated date of delivery, and identify which design submittals require Government approval prior to construction, and which construction submittals require DOR or Government approval prior to construction.
  - 4) **TESTING LABORATORIES:** Accredited laboratories as applicable.
  - 5) **TESTING PLAN AND LOG:** Tests required, referenced by specification paragraph number requiring the test, frequency, and person responsible for each test.
  - 6) **LIST OF DEFINABLE FEATURES:** A Definable Feature of Work (DFOW) is a task, which is separate and distinct from other tasks, and has the same control requirements and work crews.
  - 7) **COMMUNICATION PLAN:** Provide a plan for key decisions and possible problems the Contractor and Government may encounter during the design phase of the project. Communication Plan shall indicate the frequency of design meetings and what information is covered in those meetings, key design decision points tied to the Network Analysis Schedule and how the DOR plans to include the Government in those decisions, peer review procedures, interdisciplinary coordination, design review procedures, and comment resolution.
- b. **QC Manager Responsibilities:**
  - 1) Participate in the Post Award Kick-off, Partnering, Design Development and Coordination Meetings and Production Meetings.
  - 2) Ensure that no construction begins before the DOR has signed and stamped the design for that segment of work, and design and construction submittals are approved as required in Attachment A and the QC Plan.
  - 3) Immediately stop any work that does not comply with contract plans and specifications, and direct the removal and replacement of any defective work.
  - 4) Prepare QC Reports.
  - 5) Hold biweekly QC meetings with DOR, Superintendent and Government technical team; participation shall be suitable for the phase of work.

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- 6) Ensure that safety inspections are performed. Attend weekly Toolbox meetings.
  - 7) Maintain submittal log.
  - 8) Maintain updated as-built drawings on site.
  - 9) Maintain testing plan and log. Ensure that all testing is performed per contract.
  - 10) Maintain deficiency log on site, noting dates deficiency identified, and date corrected.
  - 11) Certify and sign statement on each invoice that all work to be paid under the invoice has been completed in accordance with contract requirements.
  - 12) Perform Punch-out and Pre-final inspections, and participate in Final Inspections. Establish list of deficiencies; correct prior to the Final inspection.
  - 13) Ensure that all required keys, operation and maintenance manuals, warranty certificates, and the As-built drawings are submitted to the Contracting Officer.
- c. Use the Three Phases of Control process for construction QC.
- 1) Preparatory Phase: Review all applicable documents for compliance with all applicable laws, codes, regulations, and the requirements of the contract, including contract drawings and specifications. Determine requirements for testing and certification. Review submittal approvals for materials, equipment, shop drawings, and applicable methods of construction and installation. Include all Preparatory Phase items in the QC Report.
  - 2) Initial Phase: Observe and inspect the initial portion of the work performed under a DFOW to establish the quality of the workmanship, resolve conflicts in construction, ensure that testing is done and certified as required, and to check all work procedures to ascertain the work is in conformance with required safety requirements. Record and report nonconforming work and work not of acceptable quality and requiring correction or rework. Include all Initial Phase items, along with initial phase checklist and, in the QC Report.
  - 3) Follow-Up Phase: Occurs at the completion of each DFOW. Ensure the work is in compliance with contract requirements, quality of workmanship for all work is maintained, and all work performed meets safety requirements. Include all Follow-Up Phase items, including date, in the QC Report.
- d. The QC Manager must possess a current certificate showing successful completion of the NAVFAC Contractor Quality Management (CQM) Training.

7. **SUBMITTAL PROCESS:** Provide to the Government submittals as listed. See Paragraph 4, DESIGN, and Attachment A for specific design and construction submittal format and approval and surveillance requirements. Design drawings may be prepared more like shop drawings to minimize construction submittals after final designs are approved. Therefore, the Contractor is encouraged to prepare and submit with the design drawings, appropriate connection, fabrication, layout, and product specific drawings.

- a. QC Plan, prior to Design/Construction (may be phased).
- b. Design and construction submittals, prior to construction, approved IAW QC Plan, The DOR or QC Specialist is the approving authority for submittals unless otherwise indicated in Attachment A.

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- c. DOR-approved design and construction submittals identified in Attachment A for Government surveillance (typically Fire Protection system and Life Safety submittals). Stamp the submittals "FOR SURVEILLANCE ONLY." Submit Surveillance submittals to the Government prior to starting work for that item. Submittals required for surveillance will be returned only if corrective actions are required.
  - d. Material Safety Data Sheets (MSDS) as applicable.
  - e. Schedule: Provide detailed design schedule and preliminary construction schedule, due prior to PAK.
  - f. Environmental Protection Plan, prior to start of the work.
  - g. Contractor Safety Self-Evaluation Checklist.
  - h. Accident Reports – submit if incidence occurs.
  - i. Safety Submittals: Per Paragraph 34 and Attachment A, prior to construction.
  - j. Schedule of Prices, initial due 21 calendar days after award and a detailed due prior to construction.
  - k. Budget Management Summary: Per Attachment A.
  - l. Record Drawings, due at Beneficial Occupancy
  - m. Operation and Maintenance Information: Per Paragraph 23, Part 2 Attachment A, and Part 4. Due prior to testing as applicable, no later than 30 calendar days before Beneficial Occupancy.
  - n. Licenses and Permits: Per Attachment A and Part 4.
  - o. DD Form 1354: For all new construction, demolition, and any construction on an existing facility that adds new parts, items, or systems that are not maintenance or repair; e.g. replacement of windows, replacement of roofs, replacement of an exterior utility, adding an AC system, adding exterior lighting, the DOR shall prepare DD Form 1354 TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY, in accordance with UFC 1-300-08, available at [http://65.204.17.188/report/doc\\_ufc.html](http://65.204.17.188/report/doc_ufc.html). Submit form for Government approval a minimum of 30 calendar days prior to final acceptance of work.
8. **SUPERVISION:** The Contractor shall have a supervisor fluent in English on the job site during working hours. Additional requirements per Attachment A.
9. **SCHEDULE:** Provide Design and Construction Schedule adequate for Contractor to efficiently manage project and for Government to efficiently manage QA and scheduling interfaces. Include construction phasing and any work restrictions (such as occupied spaces, special hours, potential work disruptions). Schedule shall contain DFOWs and dates for completion of each task including material procurement, and construction activities. Update the schedule at least monthly; use 3-week look-ahead for each QC meeting.
10. **BUDGET MANAGEMENT:** The Contractor shall be responsible for budget management throughout the entire project. It is the intent of the Government to partner with the Contractor to maximize project value while strictly controlling contract modifications and maintaining overall fiscal

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control. When required in Attachment A, develop a Budget Management System for each phase of the design.

11. **PRECONSTRUCTION CONFERENCE:** Prior to construction or demolition start, meet with representatives of the Contracting Officer to discuss and develop mutual understanding relative to administration of the safety programs, environmental issues, safety of building occupants and surrounding area, hazardous materials, waste disposal, construction QC procedures, construction schedule, labor provisions and other construction phase contract procedures. The Preconstruction Conference shall reinforce partnering philosophy initially established during the PAK.

12. **ACCESSIBILITY:** Barrier-free design should be in accordance with the requirements of the Federal Accessibility Standards (UFAS) as required by 42 U.S.C. 4151-4157, Architectural Barriers Act (ABA) of 1968, and consistent with 29 U.S.C. 794, *Rehabilitation Act of 1973*, but also meet the requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Use the criteria that provide the greatest barrier-free design requirements. The soon to be released DOD Accessibility Standards will implement the US Access Board's update of the ABA and ADA guidelines and supersede the requirements noted above.

13. **CONTRACTOR'S PRODUCTION REPORTS:** Submit Contractor Production Reports on forms furnished for this purpose. Complete the reports weekly unless otherwise requested by the Contracting Officer. Reports shall include:

- a. Worker hours by classification, move-on and move-off of construction equipment furnished by the prime, subcontractor or the Government, and materials and equipment delivered to the site.
- b. Safety meetings, checks and inspections.
- c. Disposition of Construction Waste Material: Per Environmental Protection Plan.
- d. Design and Construction Services: Including, but not necessarily limited to:
  - 1) Check all Contract Documents for correctness and correlation. If the Contractor notes any discrepancy or ambiguity, immediately notify the COR.
  - 2) Examine the work site as to conditions affecting the work. Field verify the site and scope of work, including but not limited to the measurement and location of all significant items required to perform the work. Failure by the Contractor to familiarize oneself with available information regarding these conditions shall not relieve the Contractor from the responsibility of successfully completing the work.

14. **SCHEDULE OF PRICES:** Submit on forms furnished by the Government. The initial schedule of prices may be preliminary for construction activities until the design is developed. Include a detailed breakdown of the contract price, with quantities for each kind of work. Include General Conditions, profit, and overhead in the unit prices. Break down into design and each construction category if stated in Attachment A. The Contractor may invoice for bonds once the Government has approved the bonds, however, no other requests for payment will be processed without an approved Schedule of Prices.

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15. **CONTRACTOR INVOICES:** Contractor requests for payment shall conform and will be processed in accordance with the requirements of FAR 52.232-5 and FAR 52.232-27.

a. Content of Invoice: Requests for payment in accordance with the terms of the contract shall consist of the following: (If NFAS Clause 5252.232-9301 is present in the contract, documents shall be provided as attachments in Wide Area Workflow (WAWF). The maximum size limit per attachment is less than 2 megabytes, but you may have an unlimited number of attachments. If a document cannot be attached to WAWF due to system or size restrictions it shall be provided as instructed by the contracting officer). If NFAS Clause 5252.232.9301 is not present in the contract, follow the invoicing instructions provided in the contract.

- 1) Contractor's Invoice on NAVFAC Form 7300/30, which shall show, in summary form, the basis for arriving at the amount of the invoice.
- 2) Contractor's Monthly Estimate for Voucher (LANTNAVFACENGCOM Form 4-4330/110 (New 7/84)), with subcontractor and supplier payment certification.
- 3) Affidavit to accompany invoice (LANTDIV NORVA Form 4-4235/4 (Rev. 5/81)).
- 4) Updated copy of submittal register.
- 5) Updated copy of progress schedule. Furnish as specified in "FAR 52.236-15, Schedules for Construction Contracts."
- 6) Network mathematical analysis.
- 7) Contractor Safety Self Evaluation Checklist (original)
- 8) Final release (for final payment only)

b. Payment:

- 1) Payment will be made on Contractor's submission of itemized requests and will be subject to reduction for overpayments or increased for underpayments from previous payments. The Government may withhold payment or reduce payments for the following:
  - a) Defects in material or workmanship.
  - b) Claims the Government may have against the Contractor under or in connection with this contract.
  - c) Contractor's failure to submit an updated schedule.
  - d) Payroll violations.
  - e) Unless otherwise adjusted, repayment to the Government upon demand for overpayments made to the Contractor.
- 2) Payments may be made for materials, stored off construction sites, under the following conditions:
  - a) Conditions described in Attachment A.
  - b) Materials adequately insured and protected from theft and exposure.
  - c) Materials not susceptible to deterioration or physical damage in storage or in transit to the job site are acceptable for progress payments. Items such as steel, machinery, pipe and fittings and electrical cable are

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acceptable, but items such as gypsum board; glass, insulation and wall covering are not.

- d) Materials in transit to the job or storage site are not acceptable for payment.
- e) Conditions specified in FAR 52.232-5(b) Payments Under Fixed Price Construction Contracts.

16. **PROTECTION OF GOVERNMENT PROPERTY:** Take special care to protect Government property. Return areas damaged as a result of construction under this contract to their original condition. In addition to FAR 52.236-9, *Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements*, perform the following:

- a. Remove or alter existing work or facilities in such a manner as to prevent injury or damage to any portion of the existing work or facilities that remain.
- b. Repair or replace portions of existing work altered during construction operations to match existing or adjoining work, as approved by the Contracting Officer. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.
- c. Preserve the natural resources in accordance with the approved environmental protection plan.

17. **EXISTING UNDERGROUND UTILITIES:** Verify on-site utilities and have them marked out by a utility locator service prior to the start of construction. Where existing piping, utilities, oil and gas lines, and underground obstructions of any type that are to remain are indicated in locations to be traversed by new piping, ducts, and other work provided herein, and such are not indicated or specified to be removed, the elevations of the existing utilities and obstructions shall be determined before the new work is laid closer than the nearest manhole or other structure at which an adjustment in grade could be made. Obtain required dig permits and notify the Contracting Officer 21 calendar days prior to any excavation. Refer to Attachment A for specific station requirements.

18. **LICENSES/PERMITS:** Obtain all appointments, licenses, and permits required to perform work under this contract at no additional expense to the Government. See "Permits Record of Decision" (PROD) form for list of permits. Comply with all applicable federal, state, and local laws, and base regulations and procedures. Provide evidence of such permits and licenses to the Contracting Officer before work commences and at other times as requested by the Contracting Officer (see FAR 52.236-7, *Permits and Responsibilities*). Coordinate permit applications with Navy or local environmental office.

The contractor shall submit a complete PROD form with the first design submittal package. A blank PROD form can be obtained at the Download Tab of Part 6 of the NAVFAC Design-Build website at the following link <http://www.wbdg.org/ndbm/Download/Download.html?Tab=Download>. Contractor shall determine correct permit fees and pay said fees. Copies of all permits, permit applications, and the completed PROD form shall be forwarded to the Government's Civil Reviewer and Environmental Reviewer.

Contractor is exclusively responsible for his full compliance with patent laws and shall affirm that the company is licensed to use equipment and processes the company shall employ in this project.

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19. **CONTRACTOR WORK SITE:** Limit use of the premises for work and for storage of material and equipment associated with the contract. Unless otherwise specified or separately agreed to, Government owned material handling equipment, transportation equipment or general tools will not be available for Contractor's use. Clean work area daily and after completion of the work, removing all loose debris and disposing of all non-permanent materials IAW the contractor's Waste Management Plan.

- a. **Temporary Facilities:** The Contractor may provide his own office facilities; coordinate and obtain advance approval from the Contracting Officer. Provide and maintain suitable sanitary facilities within the construction limits of the contract. Dispose of sanitary waste in accordance with the applicable laws, and local regulation.
- b. **Contractor-Furnished Equipment:** Equipment is subject to the inspection and approval of the Contracting Officer, prior to and during the life of the contract. All equipment and vehicles shall display readily visible Contractor identification markings. Relocate stored Contractor equipment which may interfere with operations of the Government or with others on-site.
- c. **Contractor-furnished Material:** Protect and secure products stored at this site.
  - 1) All replacement units, parts, components, and materials to be used in the maintenance, repair and alteration of facilities and equipment shall be new and compatible with the existing equipment on which it is to be used, and shall comply with applicable Government, commercial, or industrial standards such as Underwriter's Laboratories, Inc., and National Electrical Manufacturers Association.
  - 2) In addition, submit a current certificate recognized by the State or local authority that states the Contractor has completed at least 10 hours of training in backflow preventer installations.

20. **TEMPORARY UTILITIES:**

- a. The Government will provide water and power in reasonable quantities at the prevailing rates.
- b. All labor, material, and equipment necessary to affect temporary utility tie-ins, including transformers if necessary, shall be at the expense of the Contractor and under the surveillance of the Contracting Officer.
- c. The Contractor shall be responsible for any damages to Government, private or public facilities and property that may result from the installation and removal of these temporary utility tie-ins. Corrections and repairs shall be made at the Contractor's expense.
- d. The actual location and installation of the temporary tie-in, together with any interruptions of utilities systems, shall be identified and approved by the Contracting Officer prior to execution. Notify the COR and Station Utilities 15 calendar days prior to any tie-ins.
- e. Permanent utility systems, when indicated, will be available for tie-in.
- f. Telephone and Data Service: Make arrangements with local telephone company, NMCI and other pertinent base communication departments.

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- g. Maintain utility services to existing facilities surrounding the site at all times during construction.
- h. Contractor shall install and certify back flow preventers on all connections to the potable water supply system.

**21. ENVIRONMENTAL CONTROLS AND PROTECTION**

Unforeseen Hazardous Conditions: Do not disturb hazardous materials and report condition immediately to the Contracting Officer potentially hazardous conditions that are uncovered or the Contractor becomes aware of that have not been identified in the RFP. This includes hazardous components and materials and contamination (see UFC 3-800-10 for more information). This includes conditions that are not only hazardous to humans but wildlife, marine life and the environment. Stop work in the area of the questionable material or condition until identification and direction is provided.

**22. WASTE MANAGEMENT:** Develop a Waste Management Plan that identifies all recyclable material and disposal methods for all material. Contractor shall reduce, recycle or salvage as much waste material as possible with a goal of diverting at least 50% of construction waste from landfill. Address waste reduction, recycling and salvage as part of the waste management plan. Report volume or weight of disposed and recycled materials. The Contractor is responsible for removing and disposing of all waste materials generated. Consider all material recyclable or reusable, unless clearly demonstrated the material requiring disposal is waste material.

**23. RECORD DRAWINGS AND OPERATION & MAINTENANCE (O&M) DATA:** Furnish hard copy and electronic format for all as-built and O&M information. Record drawings shall incorporate all changes to the approved final design. Provide O&M data for as-built products, materials, and equipment, including data sheets, test reports, warranties, certificates, list of spare parts suppliers for all pieces of equipment, and approved construction submittals. Refer to Attachment A.

**24. WARRANTY:** Warrant all materials and work for not less than one year after final acceptance of the work, except as otherwise indicated in this RFP. If required to provide remedial repair of previously installed work due to latent defect or unacceptable work performance, warrant the repaired work for one year after the completion and acceptance of the repair. For warranted items, furnish the manufacturers' original written warranty accompanied by a copy of the supplier's receipt showing place of purchase, telephone number of supplier, address, delivery order number if applicable, and ticket number.

**25. PERFORMANCE EVALUATIONS:** The evaluation will take into account all aspects of the Contractor's performance, including evaluations from Performance Assessment Plans when included in Attachment A. Performance evaluations may be completed any time during the contract. The Government will provide a copy of the performance evaluation and an opportunity to discuss the evaluation. The performance evaluations will have an impact on the award of future contracts.

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26. **WORK HOURS, ACCESS AND PASSES:** All Contractor employees, including subcontractors, and subcontractors' employees, suppliers, and suppliers' employees shall be required to comply with the Installation Security Requirements regarding personnel, vehicle, and equipment security passes and access the jobsite. Nothing in the contract shall be construed in any way to limit the authority of the Commanding Officer to prescribe new, or to enforce existing security regulations governing the admission or exclusion of persons and the conduct of persons while aboard the station, including but not limited to, the rights of search of all persons or vehicles aboard the station.

Coordinate with the Contracting Officer for specific security and access requirements.

- a. Access to Buildings/ Occupied Buildings: The Contractor may work in or around existing occupied buildings. The Contractor is responsible, via the Contracting Officer, to obtain access to building and facilities and arrange for them to be opened and closed. Do not enter the building(s) without prior approval of the Contracting Officer. Keep the existing buildings and their contents secure at all times. Provide temporary closures as required to maintain security. Contract personnel will not be permitted in security-regulated buildings or areas unless cleared by the Security Officer.
- b. Passes and Badges: Contractor employees and representatives performing work under this contract are required to be either United States citizens or documented legal residents (status verified by prime contractor). All Contractor employees shall obtain the required employee and vehicle passes. Each employee shall wear the Government issued badge over the front of the outer clothing. Failure to obtain security and base access passes shall not be a cause for contract performance time extension. The Contractor shall immediately turn in all terminated employee's badges to the issuing office.
  - 1) Personnel will be issued appropriate identification badges when the Contractor submits, in writing on company letterhead, a list indicating that all individuals are bona fide employees. Employees shall complete questionnaires and other forms as required for security. Allow 14 calendar days for background checks and processing. The list shall contain the following information:
    - f) Name of employee
    - g) Social Security Number
    - h) Date of Birth
    - i) Place of Birth
    - j) Citizenship, Statement of (U.S.) or proof of documented legal residency
    - k) Employment Eligibility Verification Form (DHS FORM I-9). This form is available at <http://uscis.gov/graphics/formsfee/forms/files/I-9.pdf>
- c. Contractor Vehicles: All vehicles shall display a valid state license plate and safety inspection sticker, if applicable, and shall be maintained in good repair. The company name shall be displayed in a clearly visible manner and size on each Contractor vehicle used in the course of work. Registration, proof of insurance and driver's licenses are required to obtain a station vehicle pass.
- d. Work Hours: Unless otherwise indicated, work will be located on a Government compound, military installation, or station. Contractor work hours shall be between 0630 and 1700 Monday through Friday, or as indicated in Attachment A. Obtain advance

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approval from the Contracting Officer for Contractor personnel to remain on site beyond normal working hours. Notify the Contracting Officer at least 48 hours in advance to obtain approval for access to the jobsite or work outside of normal working hours or on Saturday, Sunday, and Federal Holidays.

- e. Contractor Personnel: Provide the Contracting Officer the name(s) of the supervisory person(s) authorized to act for the Contractor. Provide, and update as required, a list of the key personnel for the Contractor and subcontractors including addresses and telephone numbers for use in the event of an emergency.
- f. Contractor employees shall conduct themselves in a proper, efficient, courteous and businesslike manner. Remove from the site any individual whose continued employment is deemed by the Contracting Officer to be contrary to the public interest or inconsistent with the best interests of National Security.

27. **SECURITY REQUIREMENTS:** All security requirements apply to all subcontractors and suppliers associated with this contract. Special or extraordinary security requirements are identified in Attachment A. In addition to special or extraordinary security requirements, comply with the following:

- a. Do not publicly disclose any information concerning any aspect of the materials or services relating to this contract, without prior written approval of the Contracting Officer.
- b. Do not disclose or cause to be disseminated any information concerning the operations of the activity's security or interrupt the continuity of its operations.
- c. Do not disclose any information to any person not entitled to receive it. Failure to safeguard any classified information that may come to the Contractor or any person under his control, may subject the Contractor, his agents or employees to criminal liability under 18 U.S.C., Sections 793 and 798.
- d. Direct to the Contracting Officer and or Installation Security Officer for resolution all inquiries, comments or complaints arising from any matter observed, experienced, or learned as a result of or in connection with the performance of this contract, the resolution of which may require the dissemination of official information.
- e. Coordinate photography requirements with the Contracting Office. Some areas restrict or prohibit photographing Government property.

Deviations from or violations of any of the provisions of this paragraph, will, in addition to all other criminal and civil remedies provided by law, subject the Contractor to immediate termination for default and withdrawal of the Government's acceptance and approval of employment of the individuals involved.

28. **REQUIRED INSURANCE:** Within 15 calendar days after award, furnish the Contracting Officer a Certificate of Insurance as evidence of the following insurance coverage amounts not less than the amount specified below in accordance with FAR Clause 52.228-5, *Insurance Work On A Government Installation*:

- a. Comprehensive General Liability: \$500,000 per occurrence.
- b. Automobile Liability: \$200,000 per person, \$500,000 per occurrence for bodily injury; \$20,000 per occurrence for property damage.

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- c. Worker's Compensation: As required by Federal and State Worker's compensation and occupational disease and other laws.
- d. Employer's Liability Coverage: \$100,000, except in states where worker's compensation may not be written by private carriers.
- e. Others as required by state law.
- f. Above insurance coverages are to extend to Contractor personnel operating Government owned equipment and vehicles.
- g. The Certificate of Insurance shall provide for 30 calendar days written notice to the Contracting Officer by the insurance company prior to cancellation or material change in policy coverage. Other requirements and information are contained in Attachment A.

For projects which require removal of asbestos containing materials the Asbestos Contractor or Subcontractor, as the case may be shall provide occurrence-based liability insurance with asbestos coverages in an amount not less than \$1,000,000 and shall name the Government and PQP as additional insureds.

29. **PROPRIETARY RIGHTS:** All field notes, design drawings, specifications, and other documents collected and produced as part of this contract shall be considered property of the Government. These data shall not be used, in whole or part, published or unpublished, as a part of any technical or non-technical presentation without written pre-approval of the Contracting Officer.

30. **GOVERNMENT FURNISHED MATERIAL AND EQUIPMENT:** If applicable, the Government will furnish the materials and equipment for installation by the Contractor pursuant to contract clause FAR 52.245-2, *Government Property (Fixed Price Contracts)*. Notify the Contracting Officer in writing at least 15 calendar days before the materials and equipment are required. Pick up materials and equipment no later than 30 calendar days after such date. When materials and equipment are not picked up by the 30th day, the Contractor will be charged for storage at the prevailing rate. The Contracting Officer will specify the location of materials and equipment and the delivery location.

31. **ORAL MODIFICATION:** No oral statement by any person other than the Contracting Officer, as provided in the contract clause entitled, "CHANGES AND CHANGED CONDITIONS," will in any manner or degree modify or otherwise affect the terms of this contract.

32. **NO WAIVER BY THE GOVERNMENT:** The failure of the Government in any one or more instances to insist upon strict performance to any of the terms of this contract or to exercise any option herein conferred shall not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon such terms or options on any future occasion.

33. **EQUITABLE ADJUSTMENTS – WAIVER AND RELEASE OF CLAIMS:**

- a. Whenever the Contractor submits a claim for equitable adjustment under a clause which provides for equitable adjustment of the contract, such claim shall include all types of adjustments in the total amounts to which the clause entitles the Contractor, including, but not limited to, adjustment arising out of delays or disruptions.
- b. Except as the parties may otherwise expressly agree, the Contractor shall be deemed to have waived: (1) any adjustments to which he otherwise might be entitled under the

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clause where such claim fails to request such adjustments; and (2) any increase in the amount of equitable adjustments additional to those requested in its claim.

- c. The Contractor agrees that, if required by the Contracting Officer, it shall execute a release, in form and substance satisfactory to the Contracting Officer, as part of the supplemental agreement setting forth the aforesaid equitable adjustment. The Contractor further agrees that such release shall discharge the Government, including its officers, agents, and employees, from any further claims, including, but not limited to, further claims arising out of delays or disruptions caused by the aforesaid change.

34. **SAFETY AND OCCUPATIONAL HEALTH REQUIREMENTS:**

- a. References: The publications listed below form a part of this specification to the extent referenced. Use current version of referenced requirements at the time of contract solicitation. The publications are referred to within the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Z359.1, *Safety Requirements for Personal Fall Arrest System, Subsystems and Components*

ANSI A10.32, *Fall Protection systems for Construction and Demolition Operations*

ANSI A10.6, *Demolition Operations*

ANSI Z9.2, *Fundamentals Governing the Design and Operation of Local Exhaust Systems*

ANSI Z88.2, *Respiratory Protection*

ANSI Z358.1, *Emergency Eyewash and Shower Equipment*

ASME INTERNATIONAL (ASME)

ASME B30.22, *Articulating Boom Cranes*

ASME B30.3, *Construction Tower Cranes*

ASME B30.5, *Mobile and Locomotive Cranes*

ASME B30.8, *Floating Cranes and Floating Derricks*

AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)

ASTM Standards on Lead-Based Paint Abatement in Buildings

ASTM E 1368, *Visual Inspection of Asbestos Abatement Projects*

DEPARTMENT OF DEFENSE (DoD)

MIL-STD-1472F, *Military Standard, Human Engineering Design Criteria for Military Systems, Equipment and Facilities*

DoD-HDBK 743A, *Anthropometry of US Military Personnel*

DEFENSE LOGISTICS AGENCY (DLA)

DLA 4145.25, *Storage and Handling of Compressed Gases and Liquids in Cylinders*

EPA Standards and Documents – General

15 U.S.C. 2601 – *Toxic Substances Control Act*

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EPA Title X – *The Residential Lead Based Paint Hazard Reduction Act*  
EPA & HUD – *Lead Safe Work Practices*  
HUD Guidelines, *Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing*

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 241, *Safeguarding Construction, Alteration, and Demolition Operations*  
NFPA 51B, *Fire Prevention During Welding, Cutting, and Other Hot Work*  
NFPA 70, *National Electrical Code*  
NFPA 70E, *Electrical Safety in the Workplace*

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 Safety -- *Safety and Health Requirements*

UNITED FACILITIES CRITERIA (UFC)

UFC 3-560-01, *Electrical Safety, O&M*

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1910 *Occupational Safety and Health Standards*  
29 CFR 1910.146 *Permit-required Confined Spaces*  
29 CFR 1915 *Occupational Safety and Health Standards for Shipyard Employment*  
29 CFR 1926 *Safety and Health Regulations for Construction*

- b. Submittals: A "G" following a submittal indicates that Government approval action is required.
- 1) Contractor Accident Prevention Plan (APP), comply with EM 385-1-1, Appendix A; G
  - 2) Contractor Safety Self-Evaluation Checklist; G
  - 3) Monthly Work-Hour Reports
  - 4) Crane Critical Lift Plan; G
  - 5) Accident Reports – submit if incidence occurs.
  - 6) Activity Hazard Analyses, as applicable.
- c. Weight Handling Equipment (WHE) Accident: A WHE accident occurs when any one or more of the six elements in the operating envelope fails to perform correctly during operation, including operation during maintenance or testing resulting in personnel injury or death; material or equipment damage; dropped load; derailment; two-blocking; overload; or collision, including unplanned contact between the load, crane, or other objects. A dropped load, derailment, two-blocking, overload and collision are considered an accident even though no material damage or injury occurs. A component failure (e.g., motor burnout, gear tooth failure, bearing failure) is not considered an accident solely due to material or equipment damage unless the component failure results in damage to other components (e.g., dropped boom, dropped load, roll over).
- d. Contractor Safety Self-Evaluation Checklist: Contracting Officer will provide a "Contractor Safety Self-Evaluation checklist" to the Contractor. Complete the checklist monthly and submit with each request for payment. A score of 90 or greater is required. Failure to submit the completed safety self-evaluation checklist or achieve a score of at least 90 will result in retention of up to 10 percent of the voucher.

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- e. Regulatory Requirements: In addition to the detailed requirements included in this contract, work performed shall comply with USACE EM 385-1-1, and the laws, ordinances, criteria, rules and regulations included in Attachment A. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting work. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements shall apply. UFC 3-560-01 takes precedence over all other guidance for electrical safety.
- f. Site Safety and Health Officer (SSHO) Qualifications & Duties: SSHO shall perform safety and occupational health management, surveillance, inspections, and safety enforcement for the Contractor. The assignment of the SSHO does not relieve the Contractor from the regulatory requirements governing safety responsibility. The SSHO on this project can be the site superintendent unless otherwise indicated in Attachment A. The SSHO shall meet the following requirements:
- 1) A minimum of 5 years safety work on similar projects.
  - 2) 30-hour OSHA construction safety class or equivalent within the last 5 years.
  - 3) An average of at least 24 hours of formal safety training each year for the past 5 years.
  - 4) Competent person training as needed.
  - 5) Successfully completed the Environmental Compliance Awareness Training (ECATT) Program.
  - 6) In addition to duties required in EM 385-1-1, perform the following:
    - a) Conduct daily safety and health inspections and maintain a written log which includes area/operation inspected, date of inspection, identified hazards, recommended corrective actions, estimated and actual dates of corrections. Attach safety inspection logs to the daily production report.
    - b) Attend pre-construction conference, pre-work meetings including preparatory inspection meeting, and periodic progress meetings.

Failure to actively apply an acceptable safety program will result in dismissal and a project work stoppage that will remain in effect pending approval of a suitable replacement.

- g. Accident Notification and Reports
- 1) For recordable injuries and illnesses, and property damage accidents resulting in at least \$2,000 in damages, the Prime Contractor shall conduct an accident investigation to establish the root cause(s) of the accident, complete the Navy Contractor Significant Incident Report (CSIR) form and provide the report to the Contracting Officer within 5 calendar days of the accident. The Contracting Officer will provide copies of any required or special forms.
  - 2) For any weight handling equipment accident (including rigging gear accidents), the Prime Contractor shall conduct an accident investigation to establish the root cause(s) of the accident, complete the WHE Accident Report (Crane and Rigging Gear) form and provide the report to the

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Contracting Officer within 30 calendar days of the accident. Crane operations shall not proceed until cause is determined and corrective actions have been implemented to the satisfaction of the contracting officer. The Contracting Officer will provide a blank copy of the accident report form.

- 3) Notify the Contracting Officer as soon as practical, but not later than four hours, after any accident meeting the definition of Recordable Injuries or Illnesses or High Visibility Accidents, property damage equal to or greater than \$2,000, or any weight handling equipment accident. Include contractor name; contract title; type of contract; name of activity, installation or location where accident occurred; date and time of accident; names of personnel injured; extent of property damage, if any; extent of injury, if known, and brief description of accident ( e.g., type of construction equipment used, PPE used). Preserve the conditions and evidence on accident site until the Government investigation team arrives and Government investigation is conducted.
  - 4) Monthly Work-Hour Reports: Monthly work-hour reporting to the Contracting Officer is required to be attached to the monthly billing request. This report is a compilation of employee-hours worked each month for all site workers, both prime and subcontractor. The Contracting Officer will provide copies of any special forms.
- h. Hot Work: Prior to performing "Hot Work" (e.g., welding, cutting) or operating other flame-producing/ spark-producing devices, request a written permit from the Fire Division. CONTRACTORS ARE REQUIRED TO MEET ALL CRITERIA BEFORE A PERMIT IS ISSUED. It is mandatory to have a designated FIRE WATCH for any "Hot Work" done at this activity. The Fire Watch shall be trained in accordance with NFPA 51B and remain on-site as required after completion of the task or as specified on the hot work permit.
- i. Hazardous Material Use: Each hazardous material must receive approval prior to being brought onto the job site or prior to any other use in connection with this contract. Allow a minimum of 10 working days for processing of the request for use of a hazardous material.

Notwithstanding any other hazardous material used in this contract, radioactive materials or instruments capable of producing ionizing/non-ionizing radiation (with the exception of radioactive material and devices used in accordance with USACE EM 385-1-1 such as nuclear density meters for compaction testing and laboratory equipment with radioactive sources) as well as materials which contain asbestos, mercury or polychlorinated biphenyls, di-isocyanates, or lead-based paint are prohibited. The Contracting Officer, upon written request may consider exceptions to the use of any of the above excluded materials.

The Request for Proposal should have identified materials such as PCB, lead paint, and friable and non-friable asbestos. If material, not indicated, that may be hazardous to human health upon disturbance during construction operations is encountered, stop that portion of work and notify the Contracting Officer immediately. Within 14 calendar days the Government will determine if the material is hazardous. If material is not hazardous or poses no danger, the Government will direct the Contractor

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to proceed without change. If material is hazardous and handling of the material is necessary to accomplish the work, the Government will issue a modification pursuant to FAR 52.243-4, *Changes*, and FAR 52.236-2, *Differing Site Conditions*.

- j. Pre-outage Coordination Meeting: Apply for utility outages at least 15 days in advance. As a minimum, include the location of the outage, utilities being affected, duration of outage and any necessary sketches. Once approved, and prior to beginning work on the utility system requiring shut down, attend a pre-outage coordination meeting with the Contracting Officer to review the scope of work and the lock-out/tag-out procedures for worker protection. No work will be performed on energized electrical circuits unless proof is provided that no other means exist.
- k. Fall Hazard Protection and Prevention Program: Establish a fall protection and prevention program, for the protection of all employees exposed to fall hazards. Include company policy; identify responsibilities, education and training requirements, fall hazard identification, prevention and control measures, inspection, storage, care and maintenance of fall protection equipment and rescue and evacuation procedures.
  - 1) Fall Protection for Roofing Work: Implement all protection controls based on the type of roof being constructed and work being performed. Evaluate the roof area to be accessed for its structural integrity including weight-bearing capabilities for the projected loading.
    - a) A safety monitoring system is not adequate fall protection for low sloped roofs and is not authorized.
    - b) Work on steep-sloped roofs, including residential or housing type construction, requires a personal fall arrest system, guardrails with toe-boards, or safety nets.
  - 2) Fall Prevention and Design: During design, consider and eliminate fall hazards encountered at the facility during maintenance evolutions whenever possible. If it is not feasible to eliminate or prevent the need to work at heights with its subsequent exposure to fall hazards, include control measures in the design to protect personnel conducting maintenance work after completion of the project. In addition to the detailed requirements included in the provisions of this contract, incorporate the requirements of 29 CFR 1910 Standards in the design (29 CFR 1915 applies for work in Shipyards).
- l. Weight Handling Equipment:
  - 1) Crane Critical Lift Plan: Prepare and sign weight handling critical lift plans for lifts over 75 percent of the capacity of the crane or hoist (or lifts over 50 percent of the capacity of a barge mounted mobile crane's hoists) at any radius of lift; lifts involving more than one crane or hoist; lifts of personnel; and lifts involving non-routine rigging or operation, sensitive equipment, or unusual safety risks. Submit the plan 15 calendar days prior to on-site work and include the requirements of USACE EM 385-1-1, paragraph 16.C.18. as well as the following:
    - a) For lifts of personnel, demonstrate compliance with the requirements of 29 CFR 1926.550(g).
    - b) For barge mounted mobile cranes, barge stability calculations identifying barge list and trim based on anticipated loading; and load

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charts based on calculated list and trim. The amount of list and trim shall be within the crane manufacturer's requirements.

- 2) Provide a Certificate of Compliance for each crane entering an activity under this contract (see Contracting Officer for a blank certificate). Certificate shall state that the crane and rigging gear meet applicable OSHA regulations (with the Contractor citing which OSHA regulations are applicable, e.g., cranes used in construction, demolition, or maintenance shall comply with 29 CFR 1926 and USACE EM 385-1-1 section 16 and Appendix H. The Certificate of Compliance shall state that the crane operator(s) is qualified and trained in the operation of the crane to be used. Also certify that all of its crane operators working on the DOD activity have been trained in the proper use of all safety devices (e.g., anti-two block devices). Post these certifications on the crane.
- 3) Notify the Contracting Officer 15 days in advance of any cranes entering the activity so that necessary quality assurance spot checks can be coordinated. Contractor's operator shall remain with the crane during the spot check.
- 4) Comply with the crane manufacturer's specifications and limitations for erection and operation of cranes and hoists used in support of the work. Perform erection under the supervision of a designated person (as defined in ASME B30.5). Perform all testing in accordance with the manufacturer's recommended procedures.
- 5) Comply with ASME B30.5 for mobile and locomotive cranes, ASME B30.22 for articulating boom cranes, ASME B30.3 for construction tower cranes, and ASME B30.8 for floating cranes and floating derricks.
- 6) Under no circumstance make a lift at or above 90% of the crane's rated capacity in any configuration.
- 7) When operating in the vicinity of overhead transmission lines, operators and riggers shall be alert to this special hazard and shall follow the requirements of USACE EM 385-1-1 section 11 and ASME B30.5 or ASME B30.22 as applicable.
- 8) Use cribbing when performing lifts on outriggers.
- 9) Position the crane hook/block directly over the load. Side loading of the crane is prohibited.
- 10) Certification records which include the date of inspection, signature of the person performing the inspection, and the serial number or other identifier of the crane that was inspected shall be available for review by Contracting Officer personnel.

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- 11) Written reports listing the load test procedures used along with any repairs or alterations performed on the crane shall be available for review by Contracting Officer personnel.
  - 12) Certify that all crane operators have been trained in proper use of all safety devices (e.g. anti-two block devices).
  - 13) Take steps to ensure that wind speed does not contribute to loss of control of the load during lifting operations. Prior to conducting lifting operations, set a maximum wind speed at which a crane can be safely operated based on the equipment being used, the load being lifted, experience of operators and riggers, and hazards on the work site. Include this maximum wind speed determination in the activity hazard analysis plan for that operation.
- m. Utility Locations and Verification Prior to Excavation: Obtain appropriate digging permit from Base personnel through Contracting Officer prior to digging. All underground utilities in the work area must be positively identified by a private utility locating service in addition to any station locating service and coordinated with the station utility department. Maintain all markings during utility investigation throughout the contract. Locate utilities in accordance with Paragraph 17 and Attachment A.
- Physically verify underground utility locations by hand digging using wood or fiberglass handled tools when any adjacent construction work is expected to come within three feet of the underground system. Use hand digging within 0.61 m (2 feet) of a known utility. If construction is parallel to an existing utility, expose the utility by hand digging every 30.5 m (100 feet) if parallel within 1.5 m (5 feet) of the excavation.
- n. Utilities within Concrete Slabs: Utilities located within concrete slabs are extremely difficult to identify due to the reinforcing steel used in the construction of these structures. Whenever work involves concrete chipping, saw cutting, or core drilling, the existing utility location must be coordinated with station utility departments in addition to a private locating service. Outages to isolate utility systems shall be used in circumstances where utilities are unable to be positively identified. The use of historical drawings does not alleviate the contractor from meeting this requirement.
  - o. Conduct of Electrical Work: Follow electrical safety criteria specified in UFC 3-560-01, USACE EM 385-1-1, and NFPA 70E during the conduct of all work.
  - p. Work in Confined Spaces: In addition to the requirements of Section 06.I of USACE EM 385-1-1, OSHA 29 CFR 1910.146 and OSHA 29 CFR 1926.21(b)(6), comply with the following paragraphs. Any potential for a hazard in the confined space requires a permit system to be used.
    - 1) Confined Space Signage: Provide permanent signs integral to or securely attached to access covers for permit-required confined spaces provided by this contract. Signs wording: "DANGER--PERMIT-REQUIRED CONFINED SPACE - DO NOT ENTER -" in bold letters a minimum of 25 mm (one inch) in height and constructed to be clearly legible with all paint removed. The signal word "DANGER" shall be red and readable from 1.52 m (5 feet).

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- 2) Entry Procedures. Prohibit entry into a confined space by personnel for any purpose, including hot work, until the qualified person has conducted appropriate tests to ensure the confined or enclosed space is safe for the work intended and all potential hazards are controlled or eliminated and documented. (See Section 06.I.06 of USACE EM 385-1-1 for entry procedures.) Review all hazards pertaining to the space with each employee during AHA process.
  - 3) Forced air ventilation is required for all confined space entry operations. Maintain minimum air exchange requirements to ensure exposure to any hazardous atmosphere is kept below its' action level.
  - 4) Sewer wet wells require continuous atmosphere monitoring with audible alarm for toxic gas detection.
- q. Ergonomics Considerations During Design: Design facilities, processes, job tasks, tools and materials to reduce or eliminate work-related musculoskeletal (WMSD) injuries and risk factors in the workplace. Design maintenance access to reduce WMSD risk factors to the lowest level possible. In addition to requirements included in this contract, design shall incorporate the requirements of MIL-STD-1472F.

-- End of Section --

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## Small Project Part 2, Attachment A Project-Specific General Requirements

02/10

The following requirements are project specific and may either supplement and/or modify those requirements contained in the body of Part 2, General Requirements, for Small Projects. Paragraph numbers in Part 2 correspond to paragraph numbers used in Part 2, Attachment A.

### Paragraph 3 POST AWARD KICKOFF MEETING (PAK)

The PAK meeting will be held at building 5500, Walker Avenue, MCLB Albany, GA. Schedule the PAK meeting within 14 days after contract award.

### Paragraph 4 DESIGN

Submit design drawings or sketches, calculations and manufacturer's data to demonstrate compliance with contract requirements. The Contractor is encouraged to prepare design drawings more like shop drawings to minimize construction submittals.

Provide hard and electronic copies of design submittal package to the following reviewers 1 week prior to the in-progress review:

Deliverable	FEAD/ ROICC	IPT	PWO	User
<b>Design Development</b>				
Half-size Drawings or Sketches	2	7	8	
Specifications and Manufacturer's Cut Sheets	2	7	8	
Design/Construction Schedule	1	1	1	
Calculations	1	7	8	
PROD Form (Permits)	1	3	3	
Finish Documentation Color Boards				
<b>Final Design</b>				
Half-size Drawings or Sketches	2	7	8	
Specifications and Manufacturer's Cut Sheets	2	7	8	
Design/Construction Schedule	1	1	1	
Calculations	2	7	8	
Finish Documentation Color Boards				

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1. The final design submittal must be professionally signed and sealed by the DOR and forwarded to the Contracting Officer prior to the start of construction. Separated final design packages will only be considered for Government review and approval during the Post Award Kick-off Meeting.
  
2. Construction submittals are to be Contractor-approved, except those listed below:
  - a. DOR Approval required for Final Submissions
  
  - b. Government Approval required for, all submissions.
  
3. Submit the following construction submittals, approved by the DOR, to the Government for surveillance:
  - Submit geotechnical related submittals pertaining to the soils investigations (reports and soils analysis), test pile and production pile testing and installation if needed.
  
  - Submit Performance Verification and Acceptance Testing required by IBC or this RFP.
  
  - Submit all Interim Special Inspection Reports on a bi-weekly basis until work requiring special inspections is complete.

**Paragraph 6 QUALITY CONTROL**

The Superintendent may not serve also as the Quality Control Manager and Safety Official on this project. The QC Manager and Safety Official shall be separate individuals.

Special inspection, testing, approvals, certifications, observations and quality assurance plans as prescribed in Chapter 17 of the IBC are required.

**Paragraph 7 SUBMITTAL PROCESSING**

	SUBMITTAL/BENCHMARK	DURATION	BENCHMARK	RECEIVED	STATUS
1	Quality Control Plan				
2	Material Safety Data Sheets				
3	Design/Construction Schedule				
4	Waste Management Plan				
5	Safety and Health Plan				
6	Schedule of Prices				
7	Budget Management Summary				
8	Record Drawings				
9	Operation and Maintenance Information				
10	Licenses and Permits				
11	Badge Requests				

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12	Statement of Acknowledgement SF 1413				
13	Demolition and Work Plan				
14	Design Development Docs				
15	Final Design Docs				
16	Submittal Register				
17	Waste Management Opportunity Assessment Form				
18	Performance/Payment Bonds				
19	Environmental Protection Plan				
20	Certificates of Insurance				
21	DD Form 1354				

**Paragraph 17 EXISTING UNDERGROUND UTILITIES**

The contractor shall submit required documentation to the ROICC Albany for a dig permit no fewer than 14 days prior to digging. Forms will be provided by the Construction Manager at the post award kickoff meeting.

**Paragraph 19 CONTRACTOR WORK SITE**

The contractor shall secure access to the work site.

**Paragraph 21 ENVIRONMENTAL CONTROLS AND PROTECTION**

The Contractor is required to complete and submit evidence of completion of the Environmental Compliance Assessment Training and Tracking (ECATTS) program. For more detailed information on ECATTS see UFGS 01 57 19.00 20.

The DOR is required to edit and submit UFGS 01 57 19.00 20, *Temporary Environmental Controls*, and UFGS 01 57 19.01 20, *Supplementary Temporary Environmental Controls*. The DOR must ensure state and local regulations are met within the edited UFGS section.

The DOR is required to edit and submit UFGS 02 82 16.00 20, *Engineering Control of Asbestos Containing Materials*. The DOR must ensure the requirements of ASHARA, state and local regulations are met within the edited UFGS section.

Submit evidence of DOR qualifications as an EPA and state accredited Asbestos Project Designer.

The DOR is required to edit and submit UFGS 02 82 14.00 10, *Asbestos Hazard Control Activities*. The DOR must ensure the requirements of AHERA, state and local regulations are met within the edited UFGS section.

Submit evidence of DOR qualifications as an EPA and state accredited Asbestos Project Designer.

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**Paragraph 22 WASTE MANAGEMENT**

An Opportunity Assessment Form is required for this project as part of the Waste Management Plan. Address waste reduction, recycling and salvage and include in Waste Management Plan.

**Disposition of Removed Materials:** All Construction and Debris materials (C&D) that is disposed of offsite shall be weighed and the weight disposal tickets are given to contract surveillance representative.

**Salvable Materials and Equipment:** except where specifically specified otherwise herein, all salvable materials and equipment disconnected or removed during the course of the work and not indicated or specified for reuse in the new work shall become the property of the Contractor. All recyclable materials such as metals and certain electrical components, to include switch gear, MCCs, conduit, copper wire, distribution and control panels nuts, bolts, washers, old motor starters, obsolete breakers, cable lugs, conduit, conduit fittings, connection boxes, etc will be recycled in accordance with MCO 5090.2A through the base Qualified Recycling Program (QRP). Remaining material shall be removed from the Government property.

**Paragraph 23 RECORD DRAWINGS AND OPERATION & MAINTENANCE (O&M) DATA**

Provide the Contracting Officer with two copies of half size as-built drawings, one copy of full-size as-built drawings, and four CDs containing drawings (in both pdf and AutoCAD formats), and all construction submittals. As-built must comply with the GIS GEOFidelis specifications provided as an attachment in Part 6 of this RFP.

**Paragraph 24 WARRANTY**

Refer to Part 2 of this RFI

**Paragraph 25 PERFORMANCE EVALUATIONS**

Refer to Part 2 of this RFI

**Paragraph 26 WORK HOURS, ACCESS AND PASSES**

Refer to Part 2 of this RFI

**Paragraph 27 SECURITY REQUIREMENTS**

Refer to Part 2 of this RFI

**Paragraph 28 REQUIRED INSURANCE**

Refer to Part 2 of this RFI

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**Paragraph 30 GOVERNMENT FURNISHED MATERIAL AND EQUIPMENT**

Refer to Part 2 of this RFI

**Paragraph 34 SAFETY AND OCCUPATIONAL HEALTH**

The DOR is required to edit and submit UFGS 01 35 29, *Safety and Occupational Health Requirements*.

Submit evidence of DOR qualifications as a Certified Industrial Hygienist (general practice) or Certified Safety Professional.

All work requiring energy (electrical, mechanical, hydraulic, pneumatic, chemical, thermal or other) removal shall be done in compliance with OSHA 29, CFR 1910.147 and 1910.333 lock-out/tag-out procedures for worker protection.

No work will be performed on energized electrical circuits unless proof is provided that no other means exist. NFPA-70E (current edition), Standard for Electrical Safety in the Workplace, shall also be utilized for worker safety compliance

**Sub-Paragraph f., Safety and Health Officer (SSHO)**

The Site Safety and Health Officer may not serve also as the Superintendent.

**Sub-Paragraph h., Hot Work**

Obtain services from a NFPA Certified Marine Chemist for "HOT WORK" within or around flammable materials (such as fuel systems, welding/cutting on fuel pipes) or confined spaces (such as sewer wet wells, manholes, and vaults) that have the potential for flammable or explosive atmospheres.

**Sub-Paragraph j., Pre-Outage Coordination Meeting**

Any power outage must be coordinated 21 days prior to the outage. Approval must be obtained in written before the power outage is performed.

**\*\*End of PART 2 Attachment A\*\***

## Small Project Part 3 Statement of Work / Project Program

02/10

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## 1. PROJECT DESCRIPTION

Replace approximately 32,450 circuit feet of existing three conductor , underground, electrical primary (12.47kv) distribution system, circuit 20 from MCLB Albany Main Substation to Maintenance Center and throughout existing Warehouse Area to Substation 701 at MCLB Albany, Georgia. This project is subdivided into three areas: Area 1, Area 2 and Area 3 for award to one contractor. Each area is sectioned for geographical clarity. Provide new SF6 gas switches and sectionalizing cabinets, type to match existing, as indicated throughout this RFP. Provide metering of all circuits affected by this project per base standards. There are no options for this project. The three areas jointly will be referenced as CLIN 0001.

## 2. PROJECT OBJECTIVES

Increased circuit 20 reliability, reduced maintenance cost, and provide base wide emergency power distribution from generator bay located in building 1360. Provide an Electrical System complete, in place, tested and approved, as specified throughout this RFP, as necessary for a complete, usable and proper installation. All equipment shall be installed per the criteria of RFP section G40 and the manufacturer's recommendations. Where the word "should" is used in the manufacturer's recommendations, substitute the word "shall".

### 2.1 APPLICABLE CODES AND STANDARDS:

In addition to the codes and standards listed in Part 4, the design and construction shall be in accordance with the latest revision/edition of the following referenced codes and standards. The term "Latest Revision/Edition" is defined as the version as of the project award date.

### 2.2 SUSTAINABLE DESIGN

In accordance with Executive Order 13423, NAVFAC Engineering & Construction Bulletin (EBC) 2008-01 and other pertinent directives, integrate sustainable principles into the design, development and construction of the project. Reduce the total cost of ownership of the facility using a whole building, life-cycle approach.

Provide integrated sustainable design strategies and features to minimize the energy consumption of the facilities; conserve resources; minimize adverse effects to the environment; and improve occupant productivity, health, and comfort.

Provide narrative describing minimum sustainable characteristics of materials and systems used in project.

### 2.3 ENERGY CONSERVATION

This project shall reduce the electrical power transmission line losses.

## 3. SITE ANALYSIS

**Marine Corps Logistics Base Albany is located** in Dougherty county in southwest Georgia about 80 miles southeast of Columbus GA. The base sits on approximately 3,300 acres. This project is located within the boundaries of the Base in the south central portion of the base within the existing Maintenance Facility. The Maintenance Facility is fully enclosed by security fencing in addition to the external Base security facilities. The area provides full service for maintenance support to the Marine Corps.

### 3.1 EXISTING SITE CONDITIONS

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The project is base wide and affects administrative, industrial, and warehouse areas.

3.2 SITE DEVELOPMENT

Not Used

4. BUILDING REQUIREMENTS

Not Used

5. ROOM REQUIREMENTS

Not Used

6. ENGINEERING SYSTEMS REQUIREMENTS (ESR)

G40 Site Electrical Utilities

G40 SITE ELECTRICAL UTILITIES

G4010 ELECTRICAL DISTRIBUTION

The electrical design shall comply with the design criteria specified in UFC 3-501-01, *Electrical Engineering* and UFC 3-550-01, *Exterior Electrical Power Distribution*. Underground primary electrical distribution shall comply with Section 2.2-10 of UFC 3-501-01, *Electrical Engineering*.

All primary distribution systems shall be designed as four conductors, grounded systems that are wye connected at the source transformer. A system grounded neutral conductor shall be provided throughout the system. Equipment intended to interrupt current at fault levels shall have interrupting ratings sufficient for the nominal circuit voltage and the current that is available at the line terminals of the equipment.

Provide and install SF6 insulated, vacuum break, dead-front switches and sectionalizing cabinets as specified throughout.

**AREA 1**

**Section 1**

Replace approximately 1,150 circuit feet of three conductor system, underground with new four conductor system from Main Substation east to Walker Ave. and then southwest to the intersection of Broom Blvd. and Walker Ave. Refer to attachment MAP2, Area 1 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, eight manholes with lateral splices below grade, and three circuits: 20, 40 and 2011.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

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## **Section 2**

Replace approximately 3,000 circuit feet of three conductor system, underground with new four conductor system from the intersection of Broom Blvd. and Walker Ave. west to the intersection of Broom Blvd. and Slack St. Refer to attachment MAP2, Area 1 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, nine manholes and one above grade isolation point.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

## **Section 3**

Replace approximately 1,825 circuit feet of three conductor system, underground with new four conductor system from the intersection of Broom Blvd. and Slack St. southwest to the intersection of Broom Blvd. and West Matthews Blvd. Refer to attachment MAP2, AREA 1 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits and six manholes.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

## **Section 4**

Replace approximately 2,050 circuit feet of three conductor system, underground with new four conductor system from the intersection of Broom Blvd. and West Matthews Blvd. northwest to the intersection of Fifth St. and West Matthews Blvd. Refer to attachments MAP1 and MAP2, AREA 1 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, five manholes with lateral splices below grade, and five circuits: 20, 3011, 3012, 5011 and 5012.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

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### **Section 5**

Replace approximately 10,875 circuit feet of three conductor system, underground with new overhead four conductor system from the intersection of Fifth St. and West Matthews Blvd. west to Substation 701. Refer to attachment MAP1, Area 1 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits and twenty-nine manholes.

Replacement shall include 477kcmil ACSR conductors, four conductor system, pole hardware, guy wire supports, isolation switches, and lightning arrestors. Circuit shall be installed vertically and shall share poles with new circuit 50 poles. Provide right of way per NESC as required.

## **AREA 2**

### **Section 1**

Replace approximately 2,600 circuit feet of three conductor system, underground with new four conductor system from the intersection of Broom Blvd. and Slack St. south to building 3700 via the intersection of Radford Blvd. and Slack St. Refer to attachment MAP2, Area 2 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, seven manholes with lateral splices below grade, and two circuits: 20 and 40.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 2**

Replace approximately 15,500 circuit feet of three conductor system, underground with new four conductor system from the intersection of Broom Blvd. and Walker Ave. south then southeast to Substation 201 located at the intersection of Radford Blvd. and McCawley Ave. Refer to attachment MAP2, Area 2 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, fifteen manholes with lateral splices below grade, and two circuits: 20 and 2011.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

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### **Section 3**

Replace approximately 1,600 circuit feet of three conductor system, underground with new four conductor system from the intersection of Broom Blvd. and West Matthews Blvd. south to Substation 301. Refer to attachment MAP2, Area 2 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, thirteen manholes with lateral splices below grade, and five circuits: 20, 40, 3011, 3012 and 3013.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **AREA 3**

#### **Section 1**

Replace approximately 1,000 circuit feet of three conductor system, underground with new four conductor system from manhole 5-116 west to Building 5200 (Gas Plant). Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, four manholes with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

#### **Section 2**

Replace approximately 315 circuit feet of three conductor system, underground with new four conductor system from manhole 5-6 to building 6000. Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, one manhole with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

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### **Section 3**

Replace approximately 700 circuit feet of three conductor system, overhead with new four conductor system, underground from Building 6000 to Building 5511. Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of overhead conductors and poles and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 4**

Replace approximately 450 circuit feet of three conductor system, underground with new four conductor system from manhole 5-8 to Building 5500. Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, three manholes with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 5**

Replace approximately 315 circuit feet of three conductor system, underground with new four conductor system from manhole 5-46 to Building 5404. Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, two manholes with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 6**

Replace approximately 115 circuit feet of three conductor system, underground with new four conductor system from manhole 5-48 to Building 5470. Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, two manholes with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for

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approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 7**

Replace approximately 250 circuit feet of three conductor system, underground with new four conductor system from manhole 5-49 to Building 7122. Refer to attachment MAP2, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, two manholes with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, 500kcmil conductors, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 8**

Replace approximately 315 circuit feet of three conductor system, underground with new four conductor system from manhole 1-120A to Building 1310. Refer to attachment MAP1, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, two manholes with lateral splices below grade, and circuit 3011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

### **Section 9**

Replace approximately 150 circuit feet of three conductor system, underground with new four conductor system from manhole 1-121 to Building 1210. Refer to attachment MAP1, Area 3 for approximate circuit route.

This section currently consists of four inch (4"), concrete encased Orangeburg conduits, two manholes with lateral splices below grade, and circuit 2011.

Replacement shall include new manholes, four conductor system, and six inch (6") concrete encased PVC conduit. All splices shall be made above grade in new contractor furnished; contractor installed sectionalizing cabinets (type per base standards). Provide and install new SF6 gas switching cabinet and sectionalizing cabinets, type to match existing base standard. Refer to attachment for approximate location. Provide GIS coordinate data for each manhole, sectionalizing cabinet and switching cabinet. Provide foldout details of all new manholes.

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**Additional Requirements**

Equipment foundation pads must be 200 mm (8 in) thick; pre-cast concrete pads can be used. Ensure a minimum of 3 m (10 ft) clear workspace in front of pad-mounted equipment for hot stick work. Provide bollards in areas where equipment is subject to vehicular damage.

Provide phasing schedule for each section to be replaced. Coordinate any shut-downs with COTR and schedule to minimize downtime. Perform and provide sag, tension and guying analysis where necessary. Design guidelines are as follows: maximum operating temperature: 85 degree C, limited emergency operation temperature: 100 degree C. All new runs shall be installed parallel to existing systems and shall be complete and ready for operation prior to switching a section over. Abandon all existing conduit in place; however, conductors shall be salvaged. All work shall be in compliance with the NESC.

All poles shall be sized per the NESC. Perform all calculations necessary to support sizing and span requirements. Provide alternate option to provide concrete poles in lieu of wood poles. Perform all calculations necessary to support sizing and span requirements.

Where multiple circuits are supported by one structure, all circuits shall be installed in such a manner to allow maintenance task to be preformed while adjacent circuits are energized. Provide metering of all circuits affected by this project per base standards, including but not limited to: circuits 20, 40, 2011, 3011, 3012, 3013, 5011 and 5012. All sectionalizing cabinet and isolation switch locations shall be coordinated with COTR.

Provide foldout details of all new and existing manholes affected by this project.

- End of Section -

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## **Small Project Part 4**

### **Minimum Materials, Engineering and Construction Requirements**

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**1. GENERAL REQUIREMENTS:** The requirements indicated here are minimum performance requirements. More specific project functional and performance requirements, scope items and expected quality levels over and above the standards in Part 4 are identified in Part 3 of the Request for Proposal or Basic Ordering Agreement. The Contractor is encouraged to exceed the minimum requirements. The Contractor's performance evaluation will be based in part on enhancements to materials, engineering, design and construction provided for the contract that exceed minimum requirements.

Part 4 is a general section. Not all items in Part 4 will be required for this project. See Part 3 for project-specific requirements. See "Order of Precedence" paragraph in Part 2 for relationships between all parts of the RFP.

In general, unless otherwise indicated, Contractor shall provide all labor, equipment and materials necessary to complete the work required for the contract. All work shall be in conformance with all applicable referenced criteria, construction standards, laws and regulations, including applicable building and fire, life safety codes.

#### **Recycled Materials Considerations:**

An Affirmative Procurement Program has been established within the Federal government to promote the purchase of products containing recovered materials. This program promotes the purchase of products containing materials recovered from the solid waste stream. The intent is to conserve resources and reduce solid waste by developing markets for recycled products and encouraging manufacturers to produce quality recycled content products. The contractors shall use products that meet or exceed the EPA guideline standards for recovered content as required by the Federal Acquisition Regulations (FAR). Availability lists of manufacturers and EPA research on product usage are on the Construction Criteria Base (CCB) at <http://www.ccb.org> under Documents Library, NAVFAC Criteria. A partial list of products containing recycled materials for possible use is as follows:

- Rock Wool Insulation
- Fiberglass Insulation
- Cellulose Insulation
- Structural Fiberboard and Laminated Paperboard
- Cement and Concrete - Coal Fly Ash
- Carpet including backings and cushions
- Floor Tiles
- Reprocessed and Consolidated Latex Paint.

**1.1 MATERIALS AND METHODS OF CONSTRUCTION.** Only new materials and equipment shall be installed in the work. All materials, equipment and appliances shall be of the current manufacturers' products. No obsolete or discontinued materials, equipment and appliances shall be used, except that construction materials containing recycled content as described in Paragraph 1 of this Part that completely comply with all materials specifications found elsewhere in this Part may be used.

June 7, 2011

## 1.2 APPLICABLE CODES AND STANDARDS:

The design and construction shall be in accordance with established construction practices, and the latest revision/edition of the following referenced codes and standards. The term "Latest Revision/Edition" is defined as the version as of the project award date. References are available at [www.wbdg.org/ndbm/](http://www.wbdg.org/ndbm/). The advisory provisions of all codes and standards shall be mandatory, as though the word "shall" had been substituted for "should" wherever it appears. Reference to the "authority having jurisdiction" shall be construed to mean "Contracting Officer". Comply with the required and advisory portions of the current edition of the standard at the time of contract award. UFC 1-200-01, *General Building Requirements* is the building code guide and contains references to other UFCs and Codes that are to be used for all sections in this contract. UFC 1-300-09N, *Design Procedures*, provides design guidance and contains references to other UFCs and Codes that are to be used for all sections in this contract.

1. Unified Facilities Criteria (UFC) 1-200-01, *General Building Requirements*
2. UFC 1-300-09N, *Design Procedures*
3. American Gas Association (AGA).
4. Associated Air Balance Council (AABC)
5. National Environmental Balancing Bureau (NEEB)
6. International Mechanical Code (IMC).
7. American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Standards
8. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) guidelines.
9. International Plumbing Code (IPC).
10. Illuminating Engineering Society North America (IESNA) Handbook
11. National Electrical Manufacturers Association (NEMA).
12. Electronic Industries Alliance (EIA)
13. Telecommunications Industry Association (TIA)
14. American Woodwork Institute
15. Architectural Woodwork Institute
16. APA – The Engineered Wood Association.
17. Steel Door Institute (SDI).
18. American Aluminum Manufacturers Association (AAMA)
19. National Wood Window and Door Association (NWWDA).
20. NRCA, *Roofing and Waterproofing Manual* found at <http://www.nrca.net/rp/technical/manual/manual.aspx>
21. American Hardware Association (AHA).
22. Building Hardware Manufacturers Association (BHMA).
23. Federal, State, County, and local environmental regulations.
24. ASHRAE Std. 90.1, *Energy Standards for Buildings Except Low Rise Residential Buildings*
25. American Society of Testing and Materials (ASTM)
26. American Water Works Association (AWWA)
27. National Fire Protection Association (NFPA) Codes and Standards
28. IEEE C2, *National Electrical Safety Code*

## 1.3 LOCATION-SPECIFIC CODES AND STANDARDS:

See Part 3

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**1.4 DISCREPANCIES:** When discrepancies in the referenced standards and the contract requirements occur, the more stringent requirements shall govern. The word "should" in all NFPA publications shall be interpreted as a requirement. The Authority Having Jurisdiction in the interpretation of the codes and standards, and approving the exceptions allowed in the referenced standards, shall be the Contracting Officer, and the parties designated by the Contracting Officer.

## 2. PERFORMANCE TECHNICAL SPECIFICATIONS

Note: The paragraph numbers used correspond with the numbers used in UNIFORMAT II/Work Breakdown Structures (WBS) as listed in the Whole Building Design Guide, Navy Design Build Master, accessible at this website: [www.wbdg.org/ndbm](http://www.wbdg.org/ndbm).

### SECTION A. SUBSTRUCTURE

1. **Geotechnical Site Data required in Design Drawings:** The Contractor's final design drawings shall include:
  - a. Notes identifying the soil allowable bearing capacity used in design.
  - b. Subsurface soil information, Contractor obtained, that represents subsurface conditions existing on the project site.
2. **Performance Verification and Acceptance Testing:** Verification of satisfactory construction and system performance shall be via Performance Verification Testing, as detailed in this part of the RFP.
  - a. **Earthwork:** Perform quality assurance for earthwork in accordance with IBC Chapter 17. See Section G1030.

#### G40 SITE ELECTRICAL UTILITIES

##### G4010 ELECTRICAL DISTRIBUTION

1. **Electrical Utilities Design and Construction:** Site electrical utilities include all exterior electrical work, including the connection to the primary distribution system. This also includes telephone and cable television supplies.

Provide electrical overhead and underground, distribution systems in accordance with IEEE C2 (National Electrical Safety Code), NFPA 70, local utilities company requirements, and local Activity guidelines.

2. **Coordination With Local Utilities Company and Local Activity:** Service meters for electrical services shall be provided and installed in conformance with the local utilities company requirements and local activity guidelines.

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3. **Substations:** When secondary unit substations are required, the Designer of Record shall utilize UFGS Section 26 11 13, *Secondary Unit Substation*, and UFGS Section 26 23 00, *Switchboards and Switchgear*, for the project specification, and shall submit the edited specification section as a part of the design submittal for the project.
4. **Transformers:** When transformers are required, the Designer of Record shall utilize UFGS Section 26 12 19.10, *Three-Phase Pad Mounted Transformers*, UFGS Section 26 12 19.20, *Single-Phase Pad Mounted Transformers*, or UFGS Section 33 71 01.00 20, *Overhead Transmission and Distribution*, for the project specification, and shall submit the edited specification section as a part of the design submittal for the project.
5. **Switches, Controls and Devices:** When switches or control devices are required, the Designer of Record shall utilize UFGS Section 26 13 00.00 20, *SF6 Insulated Pad Mounted Switchgear*, or UFGS Section 33 71 01.00 20, *Overhead Transmission and Distribution*, for the project specification, and shall submit the edited specification section as a part of the design submittal for the project.

\*\* End of Part 4 \*\*

**CIRCUIT 20 WEST**

**MCLB Albany, Albany, Georgia**

**EPROJECT # 1126062  
MCLB Albany WO# - 395895**

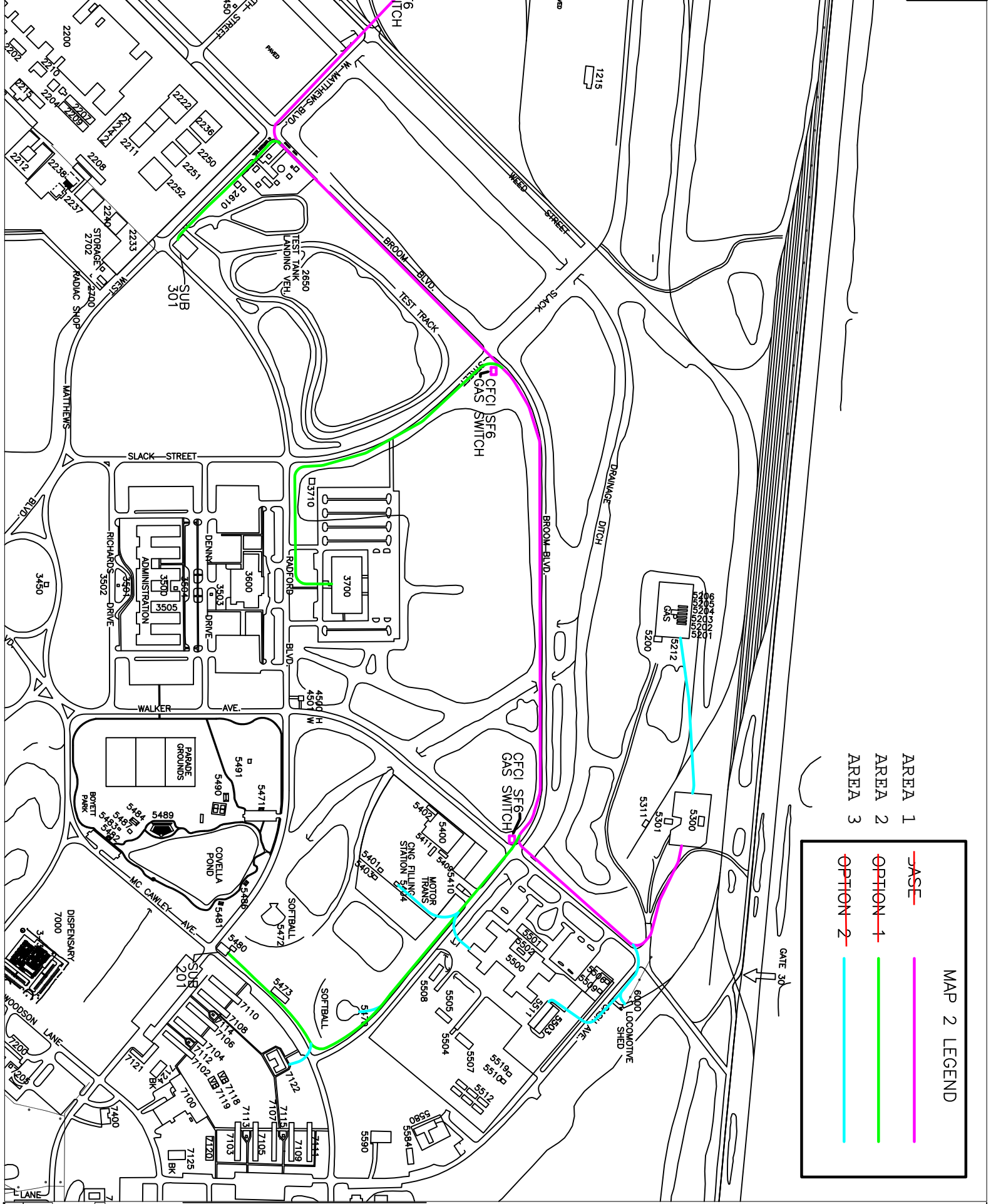
**June 7, 2011**

**PART 6  
ATTACHMENTS**

02/10

Part 6 contains information that will help the contractor develop a suitable design and construct without hindrance.

1. RFP CIRCUIT 20 MAP 1
2. RFP CIRCUIT 20 MAP 2
3. WO# 395895 MCLB ALBANY



AREA 1  
 AREA 2  
 AREA 3

**MAP 2 LEGEND**

- BASE
- OPTION 1
- OPTION 2



PW WorkOrder Detail Report

Model # :

REPAIR HIGH VOLTAGE ELEC CIRCUIT 20

PW WO #: 395895

Supervisor: HENDERSONMR

WorkPhone : 639-8406

Email : michael.r.henderson2@usmc.mil

Replace all transmission components, poles and switching components on the utility poles for circuit 20. Circuit 20 is about 50 years old (some components are from the original REA system; installed before the Base was built).

01/27/10

ROUTED TO ENGINEERING MIKE HENDERSON PER LCDR ROULEAU

LOWEM

ASSIGNED TO CHARLES PHELPS

HENDERSONMR

9/17/2010

Scope of Work

The project consists of replacing the 1950s Orangeburg pipe also known as fiber conduit that was installed with the installation of MCLB Albany, the useful life of Orangeburg is fifty years. The underground 12.47kV electrical distribution consists of four inch Orangeburg conduits encased in a concrete ductbank between manholes. The underground system has exceeded its useful life and in some areas of the installation the conduits have collapsed. This project is subdivided into seven sections:

1. The Main Substation east to the intersection of Broom Blvd. and Walker Ave. and west to building 5200 (Gas Plant).
2. The intersection of Broom Blvd and Walker Ave. west to the intersection of Broom Blvd. and Slack Street.
3. The intersection of Broom Blvd. and Slack Street south to building 3700 via the intersection of Radford Blvd. and Slack Street.
4. The intersection of Broom Blvd. and Slack Street west to the intersection of Broom Blvd. and West Matthews Blvd.
5. The intersection of Broom Blvd. and West Matthews Blvd. northwest to the intersection of Wilkinson Way and West Matthews Blvd.
6. The intersection of Wilkinson Way and West Matthews Blvd. west to building 1360.
7. The intersection of Broom Blvd. and West Matthews Blvd. southeast to substation 301.

Each section shall be detailed in the following text. The project shall consist of replacing the existing underground ductbank system with new manholes, six inch PVC conduits encased in concrete, and all conductor terminations above grade in sectionalizing cabinets to negate the safety hazards of accessing splices in confined spaces.

GICE IS 6.6M.

PHELPSCW

Description REPAIR HIGH VOLTAGE ELEC CIRCUIT 20

**PW WorkOrder Detail Report**

**Model # :  
REPAIR HIGH VOLTAGE ELEC CIRCUIT 20  
PW WO #: 395895**

<b>Supervisor:</b> HENDERSONMR	<b>WorkPhone :</b> 639-8406	<b>Email :</b> michael.r.henderson2@usmc.mil
<b>WO:</b> 395895	<b>Sched Start:</b>	<b>Sched Finish:</b>
<b>Originating Record:</b>	<b>Target Start:</b>	<b>Target Finish:</b>
<b>Site:</b> AL	<b>Actual Start:</b>	<b>Actual Finish:</b>
<b>Status:</b> WRVW	<b>Report Date:</b> 1/27/2010 12:37:00 PM	<b>Respond By:</b> 3/23/2010 6:41:00 AM
<b>Parent:</b>	<b>Priority:</b> 4	<b>Reported By:</b> LCDR ROULEAU
<b>Work Type:</b> PW	<b>Contract:</b>	<b>GL Account:</b> M67008-FS-M1-S802-XXX-XXXX
<b>Vendor:</b>	<b>Failure Class:</b>	<b>JNLU:</b>
<b>Classification:</b>	<b>Supervisor:</b> HENDERSONMR	<b>Problem Code:</b>
<b>Lead:</b> PHELPSCHAR	<b>Owner Group:</b>	<b>Work Group:</b> 00B
<b>Owner:</b>	<b>Service Group:</b> FACILITY	<b>Customer:</b> BASE
<b>Service:</b> UTIL	<b>POC:</b> LCDR ROULEAU	
<b>Vandalism?</b> N	<b>Phone:</b> 639-5652	
<b>Asset:</b>	<b>Location:</b> 07	ELECTRICAL DISTRIBUTION
<b>Manufacturer:</b>	<b>Sub-Location:</b> CIRCUIT 20	
<b>Serial#</b>	<b>Job Plan:</b>	

Job Started	Job Completed
Name :	Name :
_____	_____
_____	_____
_____	_____
Work Remarks :	_____

Signature	Date
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June 7, 2011

Circuit 20 (Phases) RFP

CHANGES TO RFP DATED, January 4, 2011

1. NAME AND DATE CHANGED:  
FROM: CIRCUIT 20 (PHASES) to CIRCUIT 20 WEST  
FROM: JAN. 4, 2011 to JUN. 7, 2011
2. Small Project Part 3, Paragraph 1  
The project does not have three phases, it has three areas, all areas are incorporated in one project with no phases.
3. Small Project Part 4, Paragraph 2.1.b., changed the "Subsurface soil information"
4. Original RFP addressed asbestos abatement; revised RFP does not include any asbestos abatement.
5. Small Project Part 2A, Paragraphs 4 and 6:  
Selections made for bracketed items Paragraph 4
  - a. Paragraph 4 DESIGN
  - b. Paragraph 4.2a & 2b  
Paragraph 6 QUALITY CONTROL:
  - a. Requirements for, Superintendent, Safety Official and QC Manager
6. Small Project Part 6:  
Added three attachments