

***DESIGN BUILD***  
**STATEMENT OF WORK**

**for**

***DPEZ 182030***

***REPAIR PERIMETER FENCE***

***Wyoming Air National Guard Base, Wyoming***

***22 December 2022***

## Statement of Work

### Wyoming Air National Guard Base, Wyoming

**Date:** 23 November 2022

**Project Title:** Repair Base Perimeter Fence

**Project No:** DPEZ 182030

**Project Engineer/COR:** Brooks Harris, P.E.

**Project Inspector:** Stephen J. Brown

### Part 1 – Statement of Work

- 1.1. Background:** Several sections of base perimeter fence have begun to fail and require repair by replacement. This project proposes repair by replacement of 2,820 LF perimeter fence. In addition, certain portions of the fence are designated as anti-ramming and must be replaced with anti-ramming fence.
- 1.2. General Description:** Under the provisions of and in accordance with this Statement of Work (SOW) and governing regulations, the Contractor shall provide all services, management, labor, equipment, materials, investigation, design, and installation necessary to repair the base perimeter fence, to the limits shown on our bridging documents. The services described herein are for Type B, and Construction services as described in ANGETL 10-03, Air National Guard Design Objectives and Procedures.

This project is to be designed in accordance with UFC 4-022-03, Security Fences and Gates, and UFC 4-020-01, DoD Security Engineering Facilities Planning Manual. The ultimate objective is to provide a complete and usable system which maintains the base's need for security in depth. Design will include repair of the fence required as well as developing appropriate temporary security solutions while the fence is being repaired. Security solutions must be coordinated and approved with Wyoming Air National Guard Security Forces. The contractor is responsible for conducting site investigations.

- 1.3. Project Construction Design Requirements:** work to be accomplished under this contract includes, but is not limited to:
  - 1.3.1. Site** investigation of perimeter to include the foundation and other building or facility systems that have degraded or that will be affected with through this project.
  - 1.3.2.** Review of current and historical plans and documents.
  - 1.3.3.** Provide a design to permanently repair the fence in the locations shown on the bridging documents (see PLANS).

- 1.3.4. The design shall be in accordance with on Part 3 Cost and Scope of this document
- 1.3.5. The contractor shall also produce an opinion of probable cost from a licensed cost estimator.

## Part 2 – Design Policy and Criteria

- 2.1. **Design Policy:** Reference ANGETL 15-01, ANG Design Policy and ANGETL 10-03, Tab C Air National Guard Design Objectives and Procedures.
- 2.2. **Design Instructions:** The design shall incorporate Government review comments and requirements of the publications listed below. All such data or correspondence that are marked “Controlled Unclassified Information (CUI)” shall be protected. Upon Request from the Contracting Officer (KO), all Government-furnished materials shall be returned to the KO within 30 days.
- 2.3. **Project Criteria:** The project design shall conform to the relevant codes and standards as set forth by the National Council of Governments on Building Codes and Standards, the Department of Defense, the National Guard Bureau, and WYANGB; including but not limited to latest versions of the following criteria:
  - 2.3.1. Wyoming Design Standards
  - 2.3.2. ANGETL 15-01, ANG Design Policy
  - 2.3.3. ANGETL 10-03, Design Objectives and Procedures
  - 2.3.4. ANGETLs 15-01-01 through 15-01-08
  - 2.3.5. UFC 4-022-03, SECURITY FENCES AND GATES
  - 2.3.6. UFC 4-020-01, DoD Security Engineering
  - 2.3.7. Occupational Safety and Health Administration Standards
- 2.4. **Government Furnished Information and Materials:** If further information is required to complete the design, the Government will provide if able.

## Part 3 – Cost and Scope Limitations

- 3.1. **General:** The intent of this Design-Build Contract is to design and install a completely functional system within the cost and scope restraints for the project. The contractor will consider all design options and criteria reductions that may be necessary in those instances where possible cost overruns may be expected. This information will be included in the design analysis. The contractor will also consider base best practices, down days, federal holidays, and training dates as no-on-site work days.
- 3.2. **Cost Estimates:**

- 3.2.1. Construction Cost Limitation:** The construction cost includes the construction or improvement of the fence and any necessary landscape or real property restoration, as well as the cost of any temporary barriers or fencing that may be required to maintain security during construction. If at any time the contractor determines that the estimated construction cost or scope of the project exceeds, or is likely to exceed, the construction contract limitation, or scope set forth in this Statement of Work, the Contractor shall report this fact in writing to the Contracting Officer and submit a control estimate and recommendations for reducing the project cost and/or scope to within established limits. Any proposed deviation from criteria must be approved prior to implementation.
- 3.2.2. Cost Estimate Submittals:** Cost Estimates shall be furnished with each design submittal. Provide cost estimates in CSI format. Develop estimates in spreadsheet format, Microsoft Excel or equivalent software. Provide executive cost summary cover sheet in format as shown in Tab C, ANG Design Objectives and Procedures, ANGETL 10-03,. BACKUP SHEETS: Primary item cost breakdown sheets shall be provided to serve as backup to the submitted estimate. This breakdown shall show as many construction item quantities and costs as possible at each stage of design. When aggregate items such as these are used, ensure a description is included in the cost. Contractor labor, mark-up, taxes, overhead and profit may be included in the unit prices if a general note is added indicating percentage amounts that are included. If unusual design features or conditions are included in the project, which materially affect the cost, attach a separate sheet to the backup material with sufficient explanation and cost information to support them.
- 3.3. Confidentiality:** Quantity surveys and cost estimates shall remain the sole property of the Government, and shall not be made available to others for any purpose. The sale of takeoffs of quantities and costs to prospective bidders or estimators is prohibited. The Contractor shall be aware of and take such precautionary measure as necessary to maintain the confidential nature of all estimates prepared under this contract. Subcontracting of estimating services is governed by the General Provisions of this contract.

#### **Part 4 – Drawing and Specification Standards**

- 4.1. General:** Drawings and specifications shall comply with ANG ETL 10-03, Air National Guard Design Objectives and Procedures, in addition to the requirements listed below.
- 4.2. Contract Drawings:** Drawings shall be prepared using AutoCAD® and in accordance with the National CAD Standard. Digital drawing files shall be provided on CD in AutoCAD® DWG format, AutoCAD DXF format, plot files (\*.plt), and Acrobat® PDF format indicating the sheet number in the filename (i.e. A101, C101, M101). All contract drawings shall be well prepared, complete, and accomplished in accordance with the best professional practice to show clearly and concisely the type and extent of work to be performed. The drawings shall be dimensioned completely and accurately. Dimensions shall be shown in Standard English units with metric conversions indicated separately. Standard building material indications and symbols for architectural items and for mechanical and electrical equipment shall be used to the greatest

extent possible. Drawings shall be delivered in the quantity, form, and size as listed in Section 9.0, SUBMITTALS.

- 4.3. Specifications:** Specifications shall be provided bound on 8-1/2" x 11" paper and digitally in the current Microsoft® Word Document format at the various stages as specified in Section 9.0, SUBMITTALS. Specifications, including all technical and special conditions, shall be based on UFC 1-300-02 Unified Facilities Guide Specifications and Construction Specifications Institute (CSI) format modified for Air National Guard construction and shall be prepared by the contractor to meet government standards to be descriptive enough to permit full and free competition among bidders. References will be made to Federal Specifications, ASTMs, and trade standards when applicable to establish a uniform standard. All references to Military and Federal Specifications or Standards at the beginning of each section must be dated with the latest revisions annotated. All standards and specifications used in the text will be listed in the opening reference paragraph. In general, the contractor should avoid the use of "proprietary type" specs. When necessary to use a manufacturer's name to describe a type of product, at least three manufacturers shall be named, if possible, and shall include the words "or approved equal." Brand name or "or equal" descriptions may be used only as a last resort for supplies/equipment when there are no specifications available covering the items and when it otherwise is not feasible to describe the requirement. All materials, components, and equipment shall be specified for approval by the Contracting Officer. All items designated for submittal and test shall be sufficiently described to provide the government a basis for review and approval or disapproval. The term "Contracting Officer" shall be used in the specs rather than references to "owner" and "Architect-Engineer."
- 4.3.1.** Whenever the contractor specifies an item by Brand Name, they shall provide the salient characteristics and a general disclaimer shall be placed in the specification subsection indicating that, "the use of a brand name item is to set a standard of quality and is not intended to restrict the contractor from offering an equal item from other sources of supply. See Material and Workmanship clause (FAR 52.236-5)." Any requirement that will be specified as a sole source or brand name to include multiply acceptable brand names shall clearly justify the need for brand name or sole source in writing and shall receive approval of the Contracting Officer at or before the 65% submittal.
- 4.3.2.** The following wording shall be used in the specifications that unconditionally require that items bear the label of the Underwriters Laboratories, Inc., or similar organizations:
- 4.3.2.1.** The Contractor shall submit proof that the (state item) that he proposes to furnish under this specification conforms to the standard of the (list appropriate testing organization(s)) and shall be accepted as conforming to this requirement.
- 4.3.2.2.** In lieu of the label, the Contractor may submit a written certification from any nationally recognized testing agency, adequately equipped and competent to perform such services, that the (state item) has been tested and conforms to the standards including method of test, of the (listed testing organization(s)).

- 4.4. Design Analysis:** Design analysis and documentation shall include items as specified in Section 5.0, CONTRACTOR SERVICES and shall support all design decisions made throughout the design. The design analysis shall include calculations, material cut sheets and explanations of any options considered. The design analysis shall also contain, as a separate section, the cost estimate. The design analysis will also contain previous review comments, annotated with action taken and a listing of any outstanding issues requiring resolution, each as a separate section. All documents shall be provided bound on 8-1/2" x 11" paper arranged by discipline and/or digitally in Microsoft Word or Adobe Acrobat PDF format at the various stages as specified in Section 9.0, SUBMITTALS

### **Part 5 – Contractor Services**

- 5.1. Design Services (Type A):** Type A services are not required. The WYANG will provide A-2 equivalent drawings to the successful contractor. These will be digital AutoCAD files in real world coordinates. Contractor shall field verify existing features with the provided files.
- 5.2. Base Services CLIN 1 – Design Services (Type B):** The contractor shall perform services as described in ANGETL 10-03 Paragraph 3.3 and as listed below.
- 5.2.1. Construction Document Development (65%) Submittal.** The contractor shall meet with the Design Working Group (DWG) to conduct an "on board" progress meeting at approximately the midpoint of design services (65%). For this meeting, the contractor shall submit the requirements listed below as specified in Section 9.0 SUBMITTALS.
- 5.2.1.1.** Provide hard copy of complete edited draft technical division specifications in a standard commercial format per Section 4.3, SPECIFICATIONS.
- 5.2.1.2.** Provide a detailed construction cost estimate per Section 3.0, COST AND SCOPE LIMITATIONS, including Bid Options, using unit prices and quantities for all materials and labor for the project.
- 5.2.1.3.** Furnish all drawings, in 65 percent detail for all disciplines of work per Section 4.1, CONTRACT DRAWINGS.
- 5.2.1.4.** Provide material samples of proposed exterior and interior building treatments and finishes.
- 5.2.1.5.** Reproduce previously received review comments with complete annotations describing the disposition of each comment and the location within the contract documents where the comment was incorporated.
- 5.2.1.6.** Provide an updated project design schedule.
- 5.2.1.7.** Provide a separate letter in writing the justification for any deviations and annotate such deviations on the submittal from the approved Concept Submittal. The Government reserves the right to rescind approval of submittals containing unnoted deviations as described herein.

- 5.2.2.** Pre-final (95%) Submittal. The contractor shall submit the requirements listed below and as specified in Section 9.0, SUBMITTALS.
- 5.2.2.1.** Provide a set of all engineering design calculations and analyses for each discipline per Section 4.3, DESIGN ANALYSIS.
- 5.2.3.** Provide detailed construction drawings 100% complete and ready for contract Acquisition, in all disciplines of work per Section 4.1, CONTRACT DRAWINGS.
- 5.2.4.** Provide a revised or updated separately bound playback of the project book Tabs A and B.
- 5.2.5.** Provide complete final specifications, ready for construction in a standard Commercial format for pre-final review per Section 4.3, SPECIFICATIONS. Specifications shall include Division 1, General Requirements (coordinated with the Contracting Officer and BCE.)
- 5.2.5.1.** Include a requirement for the construction contractor to maintain an up-to-date set of Red-marked, annotated as-built drawings to be furnished to the Government upon completion of the construction.
- 5.2.5.2.** Include a requirement for a contractor-prepared and contractor-maintained critical path method (CPM) construction schedule using the arrow diagramming method. State in the specifications that the CPM schedule is to be used in concert with the AF Form 3064, Contract Progress Schedule, in order to provide a mechanism to validate percentage of completion for verifying payment vouchers.
- 5.2.6.** Include a requirement for the contractor to provide an As-Built survey of the Area of Construction showing all New and Existing Structures, Utilities, (Above And Below Ground), Topography (1' Increment), and Pavements. Deliver 1 set of drawings on DVD. Survey to comply with Geospatial Data Deliverable Standards and Air National Guard Engineering Technical Letter ANGETL 17-11. Product to be compatible with WYANG Base's GIS CIP (Common Installation Picture).
- 5.2.7.** Provide updated material samples if changes occurred after the 65% submittal.
- 5.2.8.** Complete and provide a Pre-Final Submittal checklist in accordance with the ANG Design Objectives and Procedures –Tab C, ANG ETL 10-3, 16 April 2010- Attachment 12.
- 5.2.9.** Final (100%) Submittal. The contractor shall submit the requirements listed below as specified in Section 9.0, SUBMITTALS.
- 5.2.10.** Provide final drawings 100% complete, bound specifications, and separately bound construction cost estimate as specified previously.

- 5.2.11. Reproduce pre-final design submittal review comments with annotations describing the disposition of each comment and the location within the contract documents where the comment address was incorporated.
- 5.2.12. The KO shall be responsible for all responses to questions from Bidders or their potential Subcontractors. If the KO or COR cannot find the information in the Contract Documents or is unclear or contradictory, the KO shall convey such questions to the A-E. The contractor shall be responsible for preparing responses and if necessary, provide addenda, to clarify missing, unclear, or contradictory requirements necessary for construction at no additional cost to the Government. All responses shall be given to the KO only.
- 5.2.13. Requirement to provide Type B1 services AutoCAD rendering or artist sketch as described in ANGETL 10-03 paragraph 3.3.1.6 is waived.
- 5.3. **Construction CLIN 2 – Replace (Remove and Install) Perimeter Fence:** Provide all materials, supplies, labor, equipment and other necessary means in order to remove and install new perimeter fence, in accordance with approved final (100%) design documents listed above.
  - 5.3.1 Contractor shall submit submittals as identified as part of the design (see above).
  - 5.3.2 Contractor shall receive approval for required submittals prior to initiating removal of any fence portions.
  - 5.3.3 Install approximately 2,820 LF of new fencing and signage on property boundary.
  - 5.3.4 Once security plan is enacted, remove approximately 2,820 LF of existing fence that is located off the property boundary in accordance with the approved security plan. All fencing material such as old wire, broken or deteriorated posts, etc. shall be removed from the site and disposed of in accordance with all applicable laws and regulatory requirements. Small debris such as fencing staples, nuts and bolts, wire pieces, and similar small items shall be collected, removed from the site, and disposed of in accordance with all regulatory requirements.
  - 5.3.5 The exact alignment and length of fencing shall be field verified by the Contractor and approved by the WYANG Project Manager prior to beginning construction.
  - 5.3.6 The fence shall be constructed in accordance with the plans completed per above.
  - 5.3.7 Contractor shall provide all equipment, materials, tools, safety equipment and labor to complete this work in a complete and useable fashion.
  - 5.3.8 The contractor shall not close any thoroughfare without the written approval of the contracting officer 14 days prior to the closure. At no time shall the contractor restrict access to the base.

**5.3.9** The contractor shall make all reasonable safety precautions for pedestrians outside the base and traffic along Dell Range Blvd.

**5.3.10** The contractor shall prevent unauthorized base access through open fence area during construction.

#### **Part 6 – Initiation of Work**

**6.1.** The contractor may not proceed or initiate any work or any succeeding design level of the work required under Paragraph 5.0 prior to receipt of original notice to proceed, receipt of approval of the preceding design level, or receipt of a contract modification initiating an option. Any work done without being directed to do so by the Contracting Officer shall be at the Contractor's own risk.

#### **Part 7 – Government Review**

**7.1.** The Contracting Officer or his authorized representative may furnish the Contractor review comments on the data submitted. The Government's review is intended to be limited to functional aspects, with limited technical review of a general cursory nature only. Any review by the Government of technical items shall not be construed to relieve the contractor of responsibility for technically correct and complete documents in compliance with applicable codes and industry standards. Review comments for compliance with Federal Acquisition Regulations (FAR) will also be provided by the Contracting Officer. The contractor shall comply with the review comments in the development of data for the next submittal. If any review comment requires clarification and/or amplification to assure compliance, the Contractor shall notify the Contracting Officer or his authorized representative in writing. After each review, the contractor will be furnished one set of comments to be annotated and returned to the Government. The contractor shall furnish these annotated comments to the Government no later than 14 calendar days after receiving the comments. Review conferences shall be scheduled after receipt of submittals.

#### **Part 8 – Special Conditions**

##### **8.1. Performance of Work**

**8.1.1.** The contractor shall furnish sufficient technical, supervisory, and administrative personnel at all times to ensure prosecution of the work in accordance with the delivery schedule.

**8.1.2.** Professional level skills and management practices are required in the performance of this contract. Accordingly, the contractor shall establish an effective quality control program to assure that the end product meets professional standards and complies with the contract requirements.

##### **8.2. Project Coordinators and/or Managers**

**8.2.1.** The contractor shall appoint a project coordinator or manager to serve as the single point-of-contact and liaison between the contractor and the Contracting Officer or his representative for

all work under the contract. Upon receipt of the NTP, the contractor shall immediately furnish for approval, the name of the designated individual to the Contracting Officer, in writing. The project coordinator or manager will be responsible for the complete coordination of all work developed under the contract. All work will be accomplished with adequate internal controls and review procedures to minimize conflicts, errors, and omissions, and ensure the technical accuracy of all designs, drawings, and specifications.

**8.2.2.** The Government Technical Representatives for this project is Brooks Harris, 153rd CES WYANG, WY, 307-772-6838.

**8.2.3.** Any questions regarding the work under this contract should be directed to the Contracting Officer unless otherwise directed.

**8.3. Conferences And Confirmation Notices:**

**8.3.1.** The contractor or their representative(s) will be required to attend and participate in all design review conferences pertinent to the work under the basic contract or any options incorporated into the contract.

**8.3.2.** If the contractor and/or their representative(s) are directed by the Contracting Officer to travel and participate in conferences other than those specifically identified in this Statement of Work, such costs and expenses incurred by the contractor for directed travel will be reimbursed by modification to the contract.

**8.3.3.** The contractor shall provide a record of all conferences, site visits, meetings, discussions, verbal directions, telephone conversations, etc., participated in by the contractor or his representatives on matters relative to the contract and the work. These records, entitled "CONFIRMATION NOTICES," shall be numbered sequentially and shall fully identify participating personnel, date and time of day, subject discussed, and any conclusions reached. The contractor shall forward to the Contracting Officer or their authorized representative, a clearly legible copy of each confirmation notice within seven calendar days. Record of Review Conferences may reference "attached annotated review comments."

**Part 9 - Submittals**

ADDRESS	Basis of Design			CONSTRUCTION DOCUMENT DEVELOPMENT (65%) SUBMITTAL- N/A	PRE-FINAL (95%) SUBMITTAL	FINAL (100%) SUBMITTAL
153 WYANG Contracting Division ATTN: TSgt Christopher Davalos 217 Dell Range Blvd, Cheyenne, WY 82009 307-772-6887	Basis of Design Document per ANGETL 10-03 Paragraph 3.2.1.1, Section 5, and this Statement of Work			Documents required by ANGETL 10-03 Tab C Paragraph 3.3.1, Paragraph 3.3.2, Section 5, and this Statement of Work	Power Point Design Presentation to comply with ANGETL 16-03, Documents. required by ANGETL 10-03 Tab C Paragraph 3.3.3, Paragraph Section 5 and this Statement of Work	2 –Material Samples if changed Documents required by ANGETL 10-03 Tab C Paragraph 3.3.4, Section 5 and this Statement of Work
NGB/A4OU ATTN: Capt Matt Hoff 18848 E Crested Butte Ave, BLDG 830, Buckley, SFB, CO 80011	Basis of Design Document per ANGETL 10-03 Paragraph 3.2.1.1 Section 5, and this Statement of Work			documents required by ANGETL 10-03 Tab C Paragraph 3.3.1, Paragraph 3.3.2, Section 5, and this Statement of Work	Documents required by ANGETL 10-03 Tab C Paragraph 3.3.3, Section 5, and this Statement of Work	Documents required by ANGETL 10-03 Tab C Paragraph 3.3.4, Section 5, and this Statement of Work
NGB/A4OC ATTN: Mr. Michael Nilson, 2430 2 <sup>nd</sup> St. Minot, ND 58703-0527	Basis of Design Document per ANGETL 10-03 Paragraph 3.2.1.1, Section 5, and this Statement of Work			Documents required by ANGETL 10-03 Tab C Paragraph 3.3.1, Paragraph 3.3.2, Section 5, and this Statement of Work	And documents required by ANGETL 10-03 Tab C Paragraph 3.3.3, Section 5, and this Statement of Work	Documents required by ANGETL 10-03 Tab C Paragraph 3.3.4, Section 5, and this Statement of Work

**Part 10 – Footnotes:**

**10.1** Two sets of compact discs (CDs) are to be included with the Final Submittal. One CD of the set shall include 100% complete drawings and specifications and all documents to be used for the bid package (cost estimate shall not be included on this CD) in Acrobat PDF format. The other CD shall include all documents and plans as specified in Section 5.0, CONTRACTOR SERVICES in editable formats (AutoCAD, Word, Excel, etc.). Drawings are to be digital copies of each sheet of the set of bid drawings, including an index of drawing files, all referenced files, fonts and plot styles associated with the drawing files. File names are to be named so the sheet number can be identified as part of the file name.

**10.2** The Final Submittal is to be on CD, which includes the 100% complete set of drawings and specifications and all documents to be used for the bid package and website solicitation in Acrobat PDF format. The final construction cost estimate shall be separate from the bid package in hard copy and digital format. Drawings are to be digital copies of each sheet of the set of bid drawings,


including an index of drawing files. File names are to be named so the sheet number can be identified as part of the file name (i.e. A101, M101, C101, etc.).

**10.3** Design Docs to include printed materials such as specifications, cost estimate, design analysis, response to review comments, and any other supporting documentation as required in Section 5.0, CONTRACTOR SERVICES. Specification to be bound separately.

**10.4** A dated submittal letter shall be provided with each submittal to the Contracting Officer with distribution to the agencies listed above. This letter shall indicate to whom and the number of copies delivered. Each submittal shall be sent by the CONTRACTOR to the appropriate offices by express mail with two-day service. The CONTRACTOR shall be responsible for shipping the final renderings with the proper packaging and insurance.

## **Part 11 – Administrative/Other Requirements**

### **11.1 Project Details**

**11.1.1**  Project CLIN and ABI: 001 Design; 002 Construction

**11.1.2** Period of Performance: 365 calendar days after Notice to Proceed

**11.1.3** Project Time Management:

**11.1.3.1** Based on the Scope of Work, generate a critical path project timeline schedule or Gantt chart to be followed from project initial work to project closeout. Beyond any time requirement given in this document, final work scheduling is at the discretion of the Contractor, provided the work is completed within a reasonable timeframe. The Contractor is encouraged to propose the most time-efficient solution that meets the requirements in this Scope of Work. The Contractor shall minimize disruption to building occupants.

**11.1.3.2** Identify and inform the Contracting Officer of any substantial changes in the project timeline (eg, weather, materials, etc.). Include any potential ways to avoid delaying the completion date.

### **11.2 Environmental:**

**11.2.1** Apply for and obtain a Wyoming pollutant Discharge Elimination System (WYPDES) Storm Water Construction General Permit through DEQ.

This includes submitting a Notice of Intent, a complete Storm Water Pollution Prevention Plan, the appropriate permit fee, and a map showing access to the facility from a public road. The Contractor must provide a copy of Storm Water Pollution Prevention Plan (SWPPP) to the Owner for review before applying for Department of Environmental Quality General Construction Permit.

**11.2.2** If seeding is required, the Contractor will be responsible for seeding and ensuring the seeding is successful up to and through the one year warranty period.

**11.2.3** At the end of the warranty period and once the seeding is deemed successful by the Owner, the Contractor will remove any temporary erosion control measures (e.g. silt fencing) and notify

DEQ of the project's completion. The SWPPP will then be transferred to the Owners management.

- 11.2.4** Communicate and coordinate with the Civil Engineering Office for any currently unknown and unforeseen environmental conditions discovered in the field during design or construction.

### **11.3 Cutting and Patching:**

- 11.3.1** Cutting and patching includes cutting into existing structures to provide for the performance of the work and subsequent fitting and patching as required to restore surfaces disturbed, damaged or otherwise altered to their original or specified condition.
- 11.3.2** Visual Requirements: Do not cut and patch work in a manner that would result in substantial visual evidence of cut and patch work. Remove and replace work judged by the Contracting Officer to be cut and patched in a visually unsatisfactory manner.
- 11.3.3** If possible, retain the original installer or fabricator, or another recognized experienced and specialized firm to cut and patch. Work with the original installer to ensure all existing warranties are kept valid.
- 11.3.4** Use materials for cutting and patching that are identical to existing materials. If identical materials are not available, or cannot be used, use materials that match existing adjacent surfaces to the fullest extent possible with regard to visual effect. Use materials for cutting and patching that will result in equal-or-better performance characteristics.
- 11.3.5** Restore surfaces of patched areas to match adjacent finishes. Where necessary, extend finish restoration into retained adjoining work in a manner, which will eliminate of patching and refinishing.

### **11.4 Other:**

- 11.4.1** Contractor shall directly supervise the work with a designated project Superintendent as according to FAR 52.236-6. The Superintendent shall be physically on-site during all work days. The Superintendent shall be approved by the KO.
- 11.4.2** Contractor shall thoroughly check all work to ensure it meets the objective of a complete and usable system.
- 11.4.3** All work completed under this contract shall be guaranteed by the contractor against failure of workmanship and/or materials for a period of one (1) year from date of final acceptance of the project.
- 11.4.4** Surface mounting of electrical conduit and components are not permitted unless specifically noted in the drawings, or by express written permission by the KO.

- 11.4.5** Use of flexible conduit is limited to vibration isolation and short (less than 3 foot) “whips” to facilitate installation and maintenance. Other uses may be approved on a case-by-case basis.
- 11.4.6** Contractor shall adhere to all applicable local, state, and federal laws, codes, and regulations including the current edition of the following:
  - 11.4.7** Wyoming Public Works Standards
  - 11.4.8** Wyoming Dept. of Environmental Quality regulations
  - 11.4.9** International Building and Electrical Code
  - 11.4.10** In compliance with any other federal, state, and/or authority having jurisdiction codes and ordinances, DoD and National Guard Bureau regulations, and all industry standards.
  - 11.4.11** The Contractor will solely bear all fines and or penalties imposed by any regulatory agency that result from the Contractor’s failure to comply with applicable laws, regulations, and standards.
  - 11.4.12** Contractor shall keep the construction site clear of trash and maintain a well-organized site appearance.
  - 11.4.13** Perform any other miscellaneous work related to the project not covered under separate line items.
  - 11.4.14** Contractor shall “Call before you dig” to determine location of any possible gas, water, electrical lines, or other potential hazards.
  - 11.4.15** Contractor shall submit a dig permit request to the COR for location of all WYANG government owned gas, water, electrical, sewer, or other utility lines.
  - 11.4.16** Contractor shall include pricing for any needed third party locating services in their bid.
  - 11.4.17** Contractor is to minimize damage to the land, soil, roads, water, wildlife, and structures. Any damage to the site in excess of normal construction operations must be repaired at the Contractor’s expense in a timely manner at no expense to the Government.
  - 11.4.18** Contractor will plan for all digging activities to include digging through 13 inches of concrete before reaching soil. Most of the base is covered in 13 inches of concrete, although some locations have soil on top of abandoned concrete. The Contractor will include in the bid any necessary costs for digging, drilling, cutting, or other construction activities necessary to accomplish the Project through 13 inches of ground level concrete.

## **11.5 Administrative:**

- 11.5.1** Hold a pre-work meeting at the project site, in person, at least 14 days before the project start date. The purpose of this meeting is to review all project work items the project schedule.

- 11.5.2** The Contractor shall be responsible for maintaining any necessary licenses, bonding and permits, to include any manifest requirements and for complying with any federal, Department of Transportation (DOT), state, and municipal laws, codes, and regulations applicable to the performance of work. Contractor shall provide proof of such applicable licenses and permits prior to performing any work.
- 11.5.3** Provide copies, when requested, of any documentation related to this project. This includes but is not limited to:
- 11.5.4** Prime Contractor and/or Sub Contractor contact information
- 11.5.5** License and/or permitting documents
- 11.5.6** Design drawings, either final or draft
- 11.5.7** Inspection or testing results
- 11.5.8** Other information related to this project
- 11.5.9** Provide a copy of Storm Water Pollution Prevention Plan (SWPPP) to BCE for review before applying for Department of Environmental Quality General Construction Permit.
- 11.5.10** Storage
- 11.5.11** The Contractor is ultimately responsible for the storage and safe keeping of all materials related to the project. The WYANG may, at the discretion of the KO, authorize storage of project materials in government facilities. However even if materials are stored in government facilities, WYANG does not assume any responsibility of safe keeping or securing any materials used on the project. Any costs associated with storing project materials must be included in the bid.
- 11.5.12** Notify the government Project Manager prior to delivery of any material or equipment to the site. The contractor shall ensure someone is available to receive delivered materials and able to store them safely in an area to be coordinated with the government project manager. Any materials delivered without prior coordination and without having someone to take receipt, shall not be accepted and will be turned away.

## **11.6 Equipment**

- 11.6.1** The Contractor will supply all necessary equipment and tools to complete the project. Any costs for procuring equipment and tools must be included in the bid.
- 11.6.2** The Contractor will not utilize any government equipment or tools.

## **11.7 Material Disposal**

- 11.7.1** The Contractor is responsible for the collection and disposal of all debris, demolition, rubble, residue and waste material generated in the performance of work under this contract. All such materials shall be disposed of at an off base landfill designed to receive the type of material and waste generated or recycling facility by the Contractor. The Contractor is not permitted to deposit any such materials in base trash collection containers or at any on base location without prior written approval of the Contracting Officer. At the BCE's discretion some project items may be retained for use by the government. The Contractor is responsible for all permits, paperwork for the Environmental Protection Agency (State or Federal) and any other agency requiring submission for any items disposed of or generated in the performance of work under this contract.
- 11.7.2** Materials classified as hazardous by US environmental rules, regulations, or laws, shall be handled and processed for disposal in accordance with those rules, regulations, or laws. The Contractor is responsible for all such materials that are residue from Contractor furnished supplies and materials which were brought to the job site by the Contractor, and for any such materials identified herein or by the drawings.

## **11.8 Work Hours**

- 11.8.1** Work hours shall be Monday thru Friday 0700-1630 hours, with the exception of Federal holidays and Phoenix Fridays. Phoenix Fridays are every other Friday. A list can be provided to the successful awardee upon request. Contractor must have prior approval in writing to work outside these guidelines.

## **11.9 Base Access**

- 11.9.1** Security Forces shall monitor the incoming and outgoing of work personnel during the duration of the project. All deliveries shall be coordinated with the COR to arrange for their entrance onto Base property.
- 11.9.2** Access and General Protection/Security Policy and Procedures. This standard language is for contractor employees with an area of performance within Government controlled installation, facility, or area. The contractor shall comply with all applicable installation/facility access and local security policies and procedures, which may be obtained from the Contracting Officer's Representative (COR). The contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by the local installation's Security Forces, Director of Emergency Services or local Security Office. The contractor shall ensure compliance with all personal identity verification requirements as directed by DoD, HAF and/or local policy. Should the Force Protection Condition (FPCON) change, the Government may require changes in contractor security matters or processes.
- 11.9.3** All Contractor personnel shall receive AT Level 1 training in the form of an informational pamphlet. All personnel shall be offered additional AT training if desired by the individual. All personnel shall sign a statement confirming they received the information and were offered additional AT training. General Contractor or representative will keep a log of personnel

signing the confirmation of training and forward it to the 153 AW/ATO at the end of the contract or monthly whichever is sooner.

- 11.9.4** For Contractors that do not require CAC, but require access to a DoD Facility and/or Installation. Contractor and all associated sub-contractors employees shall comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (TSDB) (AFI 31-101 and AFI 10-245), applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative).
- 11.9.5** All commercial, contractor, and sub-contractors vehicles are subject to random inspections each time they enter the base.
- 11.9.6** If badges will be issued, they will be issued by the 153d Security Forces Squadron (SFS) to the contractor through the 153 CES COR. Badges shall be issued, tracked, and collected in accordance with instructions from Security Forces.
- 11.9.7** All personnel working on this project shall request and be eligible to be placed on an Entry Access List (EAL). It is the contractor's responsibility to ensure all planned personnel have appropriate permission.
- 11.9.8** The COR will coordinate escorts if access to secured areas is required. The Contractor shall provide written notice to the KO and COR at least five (5) working days prior to working in secured areas. The notice shall include the working hours, location(s) of work, and number of workers. Additional information may be required by the Installation Commander before access is granted.
- 11.10 Escorts:**
  - 11.10.1** A security briefing will be conducted prior to the start of the project.
  - 11.10.2** All Contractor personnel shall have a minimum of one (1) Form of Photo Identification with them at all times.