U.S. AIR FORCE
31ST FIGHTER WING
31ST CES/CENM
AVIANO AIR BASE, ITALY

SIMPLIFIED ACQUISITION OF BASE ENGINEER REQUIREMENTS (SABER)

STATEMENT OF WORK

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1. Project Description

1.1. This is a firm fixed-price, indefinite-delivery, indefinite-quantity (IDIQ) contract for multiple project trades at Aviano Air Base. Each project will be awarded by issuing individual Task Orders (TO) against the basic contract on an as needed basis. The contractor shall furnish all materials, equipment, and personnel necessary to design, manage, and accomplish the project. Projects will be in support of real property maintenance, repair, alteration, demolitions and removals.

1.2. The Contractor shall be required to furnish all materials, equipment, and personnel necessary to design, manage, and accomplish the job. There is **NO REQUIREMENT** for the contractor to establish and maintain a management office on Aviano Air Base (Italy) in order to receive Requests For Proposal's and provide other management services related to accomplishing individual task orders, but if the contractor would like to establish and maintain an on-base management office, an area will be provided if available, where the contractor can place a portable office and/or a trailer at his own expenses along with any connection to existing utilities. There will be a variety of trades for the jobs to be performed including demolition works, including asbestos and hazardous material removals, architectural, civil and structural works, electrical and communication works, plumbing works, heating, ventilation and air conditioning (HVAC) works and fire protection works etc.

1.3. The contractor shall provide sufficient technical support and project management to:

1.3.1. Ensure quality and completeness of designs and drawings when applicable;

1.3.2. Ensure accuracy of estimates;

1.3.3. Accommodate multiple concurrent active projects;

1.3.4. Provide flexibility of staff and subcontractor pool to handle rapid increases in work volume;

1.3.5. Perform according to schedule with on time completion;

1.3.6. Process submittals in a timely manner; and

1.3.7. Present a professional demeanor and positive attitude of personnel.

1.4. The contractor shall be required to maintain Base Entry Pass with Escort Privilege for a minimum of two individuals for the escorting of individuals on base. Refer to form United States Air Forces in Europe (USAFE) IMT-79 for procedures and requirements for passes request.

1.5. The contract will include a 5-year ordering period. The guaranteed minimum quantity of work that will be required under this contract will be no less than the minimum guarantee of $2,500. The minimum guaranteed amount will be obligated with the release of the SABER contract and the concurrent release of the first TO that will cover the minimum guarantee. The total amount of the contract shall not exceed $9,900,000.00 U.S. dollars. Individual task orders will vary in size from $2,500.00 to $250,000.00, the average task order value is

expected between $50,000.00 and $100,000.00. The amounts above do not constitute any obligation to the Government. If the Government's requirements set forth in the solicitation do not result in orders totaling the amount described as "maximum", this shall not constitute the basis for an equitable price adjustment under this contract.

2. General Information

The following documents will be used in the execution of projects under this contract. These specifications and standards apply to every TO, whether specified in each task order's SOW or not.

2.1. Aviano Air Base Design Guide, latest editions

2.2. Master Technical Specifications for Construction Project at Aviano air Base dated March 2020

2.3. Unified Facilities Criteria – Whole Building Design Guide (WBDG)

2.4. Italian CNR / CEI / UNI norms

2.5. Italian Ministerial Decree 37/2008 (D.M. 37/08) – *Regolamento concernente l'attuazione dell'articolo 11-quaterdecies, comma 13, lettera a) della legge n. 248 del 2 dicembre 2005, recante riordino delle disposizioni in materia di attivita' di installazione degli impianti all'interno degli edifici. (GU Serie Generale n.61 del 12-03-2008)*/Provisions regarding the installation of systems inside buildings

2.6. Italian Legislative Decree 81/2008 (D'lgs. 81/08) – *Salute e sicurezza nei luoghi di lavoro*/Protection of health and safety in the workplace

2.7. Friuli Venezia Giulia Regional Law, 6 October 2015, n. 24. - Rules for the safety of working at heights and for the prevention of accidents resulting from the risk of falls from heights

2.8. Occupational Safety and Health Administration (OSHA) requirements

2.9. SABER Cost Estimating System

2.8.1 The following Unit Price Books provided by DEI, Tipografia del Genio Civile, shall be used to develop estimates and proposals for each task order, including modifications:

a. Recupero Ristrutturazione Manutenzione (2024) / Renovation, Maintenance and Sustain.
b. Impianti Elettrici (2024) / Electrical Systems
c. Impianti Tecnologici (2024) / Technological Systems.

These Price Books determine the cost of materials and finished works. The cost of the finished works includes the cost of the labor, eventual hires, the cost of the materials and the cost of the equipment's rental.

2.8.2 **DEI cost items** will be adjusted using three coefficients. The description of coefficients factors and details on cost computation will be provided in paragraphs 10 and 11.

2.9.3. **Quantities calculated for preparing estimates for Task Orders shall be "net".** Additional quantities/items for waste, damages due to delivery, license, certifications, additional engineering design support, execution of works on public holidays or during night hours, execution of works in restricted areas, etc. shall not be allowed in the estimates or TO. These costs shall be accounted for in the contractor's price coefficient.

3. Project Award and Construction

3.1. The Government is not obligated to issue any work under this contract beyond the minimum guarantee and reserves the right to accomplish work using Government workforce or by other contracts, as the Government deems necessary or desirable. To do so will not breach or otherwise violate this contract.

3.2. The negotiated cost for construction shall remain valid for one calendar year from the date the proposal was finalized and signed.

3.3. Performance Bonds – Applicable to Individual Task Orders

3.3.1. Performance Bond:

The Contractor shall include in the proposal a statement from an accredited bank that the offeror has valid credential to obtain multiple bonds letters for the total maximum amount the ceiling of the contract. Any resulting TO meeting the threshold shall require the requisite bonds be supplied within 10 days of receipt of the TO.

4. Technical Design Support

4.1. The Contractor's staff shall have multidiscipline experience regarding . Areas of required technical design competence shall include engineering and drafting capabilities. The 31st Civil Engineer Squadron/Civil Engineer Management Flight (31 CES/CENM) will provide present drawing templates, and the Contractor shall be responsible for verifying the accuracy and readjust as changes are made throughout the years. 31 CES/CENM will furnish facilities existing drawings when necessary, however, the Contractor shall be responsible to verify adherence of worksite layouts to reality and update it accordingly. The Contractor's designs shall comply with the requirements of all building codes listed in Section 6, Construction Requirements.

4.2. Drawing Level of Effort Requirements: The Government will only provide basic concept design information for a specific work requirement. The Contractor, using the concept design information, as well as all Italian and Local codes and Aviano AB Specifications, shall be required to submit, depending on each awarded TO, unless

otherwise stated in technical specifications of the statement of work (SOW) for each specific TO. The design package requirements will be determined for each awarded TO and will be included in the Task Order Request for Proposal (TORFP).

The Contractor shall produce all drawings using AutoCAD 2017 or newer software (or fully compatible) and utilize the Standard A1 (594 x 841mm) drawing format. The Contractor may be required to upgrade to a more current version of AutoCAD during the five (5) year ordering period to maintain compliance with this requirement. Purchase cost of the AutoCAD software may be included in the Contractor's coefficient.

All sheets in the drawings set shall be stamped and signed by the applicable professional engineer before submittal to the Government. Design submittals shall include electronic and hardcopy submittals of drawings and electronic submittals of specifications, and design analysis. Drawings shall be submitted with 1 (one) full size set, A1 format, and 3 (three) half size sets, A3 format. All electronic submittals shall be in PDF format. All work must include adequate design submittals as follows:

4.2.1. Civil / Structural:

4.2.1.1. Site plans showing the proposed location of work including benchmarks, access from main roads, construction or alteration to roads, sidewalks, curb and gutter, airfield pavements (asphalt, concrete, base course construction, etc.), surface or sub-surface drainage concepts and signage, showing all required controlling dimensions.

4.2.1.2. Structural steel construction to include pre-manufactured buildings. All structural design drawings shall be certified and stamped and signed by a registered structural engineer and shall comply with the D.M. 17 January 2018. Structural drawings shall be requested as soon after contract award as possible.

4.2.2. Architectural:

4.2.2.1. Drawings showing plans, sections, elevations, and details indicating facility's existing and new features. All drawings shall contain all elements dimensions.

~~4.2.2.2.~~ Drawings indicating all alterations to the structural system of a facility including foundations, floors, walls, ceilings, and roofs. ~~The sizing of foundations, walls, beams, lintels, and columns as well as their location, where needed.~~

4.2.2.3. Drawings indicating compliance with codes & regulations found in paragraph 6. Construction Requirements.

4.2.2.4. Drawings indicating demolition, construction and finish treatment for walls, ceilings, and floors to include windows and doors, color schedules, signage schedule.

4.2.3. Landscape / Irrigation:

4.2.3.1. Drawings indicating plant location, size of plant, height, caliper width, type, species, etc. and inert ground cover (i.e. boulders, river rock, landscape rock, etc.) size, type, and color. Coniferous & broadleaves trees shall be specified by height of the tree.

4.2.3.2. Drawings indicating complete irrigation system, if any.

4.2.4. Mechanical / Plumbing:

4.2.4.1. ~~Design submittals shall show all calculations used in determining capacities of mechanical systems.~~ Unless otherwise indicated, all the existing filters of the system involved in the project shall be fully replaced, any pre/post-heating coil of an air handling unit (AHU) shall be electrically powered, and fresh air exchange shall be provided in accordance with the applicable laws. Mechanical drawings shall include ducts (including duct sizes, supply/return air flow, and proper air flow balancing), water piping (hot, cold, potable), Energy Management Control System (EMCS) proper sequence of operations, plumbing fixtures, sanitary sewer, and storm sewer. Mechanical screen walls shall include vented block and attempt to position the door or opening on the condenser side of any HVAC units to allow for ease of maintenance. Any Direct Digital Control (DDC) shall be compliant with 31 CES Facility-Related Control Systems Hardware/Software Requirements.

4.2.4.2. Drawings with all equipment items for heating, ventilation, air conditioning, refrigeration, kitchen, and plumbing fixtures, etc.

4.2.5. Fire Prevention and Fire Suppression:

4.2.5.1. Drawings indicating extinguishers, fire rated doors, emergency, and evacuation plans as per fire risk assessment in compliance with:

4.2.5.1.1. D.M. 03 September 2021 - *Criteri generali di progettazione, realizzazione ed esercizio della sicurezza antincendio per luoghi di lavoro/*General criteria for the design, implementation and operation of fire safety for workplaces,

4.2.5.1.2. D.M. 03 August 2015 - *Approvazione di norme tecniche di prevenzione incendi*/Approval of technical standards for fire prevention, and related

4.2.5.1.3. D.M. 07 Aug 2012 - *Disposizioni relative alle modalita' di presentazione delle istanze concernenti i procedimenti di prevenzione incendi e alla documentazione da allegare*/Provision relating to the procedures for submitting requests concerning fire prevention procedures and the documentation to be attached

4.2.5.1.4. D.M. 01 Aug 2011 - *Regolamento recante semplificazione della disciplina dei procedimenti relativi alla prevenzione degli*

incendi/Regulation containing simplification of the discipline of procedures relating to fire prevention, when applicable.

~~4.2.5.2. Drawings indicating fire suppression systems design and hydraulic calculations according to EN 12845, EN 10779, showing all risers, pipe (size and material), sprinkler heads, and any other installed equipment that is part of the wet-pipe sprinkler system.~~

4.2.5.3. Fire suppression shop drawings stamped and signed by an Italian Registered Fire Protection Engineer.

4.2.5.4. Report with fire risk assessment as per D.M. 03 AUG 2015 showing the definitions of parameters Rvita and Rbeni and the following levels of performance of the 10 fire strategies described by the Fire Prevention Code.

4.2.5.5. Host nation law comparison as per UFC 3-600-01 for both fire alarm and fire suppression, where will be clearly described the results and the choice of the applied values for the final design, preferably using EN/UNI standards, due to the EU Regulation 305/2011 about marketing of construction products. For wet sprinklers the comparison shall be between the National Fire Protection Association (NFPA) 13 and UNI EN 12845. For fire alarm the comparison shall be between NFPA 72 and UNI 9795.

4.2.5.6. For fire alarms, the drawings shall indicate the positions of all devices and cable runways with the indication of the loop address, like L01S03 (loop nr.01, smoke detector nr.03) on the floorplans. For each typical installation a detail will show the assembly of the device and related fittings, piping, j.b.s to be connected, together with admitted clearances from ceiling/floor/false ceiling/beam.

4.2.5.7. For fire suppression, it is requested to have a detailed design with part list and ballooning of all the final configuration of all the devices in the mech or pump room, starting from water supply till the exiting pipes. The info should include at least pipe/valve nominal size, item functional description, applicable product standard/norm, set pressures, set time delays, design flows, entry static pressure

4.2.5.8. All the necessary signages shall be UNI EN ISO 7010, the symbols on drawings shall be in accordance with D.M. 03 AUG 2015 chapter G1

4.2.5.9. The designer of Fire Prevention, in case the activity is subjected to a mandatory Fire Prevention Practice as per D.P.R. 151/2011, will be responsible for the design, site supervision and all the administrative path till the obtainment of final approved S.C.I.A. antincendio or Italian C.P.I.

4.2.6. <u>Electrical:</u>

4.2.6.1. All circuits for lighting controls, transformer placement, automatic transfer switch placement, and street lighting. All electric equipment such as transformers, switches, junction boxes, panels, etc.

4.2.6.2. All MV panel works, MV cables works, MV protection relays works, MV transformers works, Emergency genset works, etc.

4.2.6.3. All fire alarm, detection, security alarm, and mass notification systems (to include location of all components, conduit runs, wire number and sizes, etc.).

4.2.6.4. Methods and tabulations used in sizing conductors, conduits, protective devices, and other equipment shall be included. When tables that are used in the design are taken from publications, the title, source, and date of the publication shall be indicated.

4.2.7. Communications:

4.2.7.1. Telecom plans showing data/voice outlet, cable and cable tray

4.2.7.2. Telecom grounding connection plan

4.2.7.3. Telecom rack schematic diagrams

4.2.8. Specifications: The Contractor shall comply with the Master Technical Specifications for Construction Projects at Aviano Air Base dated March 2020. The Contractor shall furnish all specification sections applicable to the work conducted under the task order in electronic format. The Contractor shall edit the specifications to comply with Aviano AB and Air Force design standards and the task order design. All costs of editing the specifications shall be paid by the Contractor and included in his contract coefficient.

4.3. NOTE: Any other necessary drawings not specifically listed above shall be submitted as soon after project award as possible. Structural steel, roofing systems, fire suppression and all systems design or shop drawings shall be signed and stamped by the applicable engineer prior to submittal to the Government. Electronic as-builts are required for every TO, whether written into the SOW or not, electronic need to be in both dwg and pdf format; stamped and signed with "As Built" and date of acceptance. Contractor is required to include a pdf copy of operation and maintenance (O&M) manuals.

Drawings shall be geospatially referenced using real world coordinates World Geodetic System (WGS)-1984 Universal Transverse Mercator (UTM) 33N. The drafting section will provide an AutoCAD drawing that is geospatially referenced for the Contractor to use as a background.

4.4. Adherence to Standards: The Contractor is responsible to ensure each project complies with the requirements in paragraph "6. Construction Requirements." If a discrepancy exists between any codes, the Contractor shall notify the Government and use the most stringent requirement, where this condition is not applicable due to conflict between norms and/or codes, IT/EU codes shall be prevalent on other codes. Neither the Contracting Officer nor the CES Project Manager has the personal authority to waive any construction law, code, or regulation, whether it is listed in this SOW or any construction code book. Any work that is later found not to meet codes, guides, and/or standards that were in force at the time of task order award shall be corrected to comply with such code, guide and/or standard at

no extra cost to the Government.

4.5. If specifically required by the Contracting Officer, on a particular Task Order, the Contractor may be required to furnish documents/drawings bearing the stamp and signature of a registered architect or professional engineer.

5. Performance Capabilities

5.1. Throughout the life of this contract, whenever there are active TO's, the Contractor's Project Manager (CPM) shall be available during normal business hours to meet with the Contracting Office or his/her representative, at the location specified, within six (6) hours after notification ~~by telephone~~. The CPM shall be available to meet with the CO or his/her representative within 48 hours when there are no active TO's. The CO must be able to contact the CPM at all times by dialing a local telephone number. The Contractor's Project Manager (CPM) shall provide overall contract management, including full authority to develop TO proposals, negotiate, sign award/modification paperwork, supervise individual project superintendents, provide subcontract purchasing and administration, review material submittals and shop drawings, and shall attend all weekly status meetings, site visits and final inspections. The CPM shall have a minimum of 5 years previous experience as primary manager of a Government contract or general contracting firm engaged in similar multiple discipline commercial construction projects. In addition, the CPM must be experienced with managing multiple subcontractors.

5.2. Whenever there are active TO's, Contractor personnel with the following management/technical support capabilities must be available to properly manage/superintend all TO proposals being developed and/or work under construction:

5.2.1. Contractor's Project Superintendent (CPS) - Provides on-site supervision of active TO's. The CPS shall visit each active project site daily, submit detailed weekly progress reports for each Task Order, schedule and coordinate subcontractors and material suppliers, and attend all weekly status meetings, site visit, and pre-final/final inspections. Superintendents shall have a minimum of 5 years previous experience as a project superintendent (exclusive of time employed as a tradesman or working foreman) for a general contracting firm overseeing one or more multi-discipline commercial construction projects. Superintendent shall be always on-site during work hours for each TO. If multiple TO's are awarded at one time, the Contractor shall provide qualified and experienced superintendents to cover all TO's. The project superintendent shall be fluent English speaking.

5.2.2. Contractor's Quality Control Manager (QCM) – Provide fluent English-speaking quality control manager for all active TO's and executes the Contractor's Quality Control Plan (QCP). The QCM shall visit each active project site daily to ensure full compliance with all safety requirements and verify that the materials and workmanship are in accordance with approved construction drawings, shop drawings, material submittals and technical specifications. If multiple TO's are awarded at one time, the Contractor shall provide qualified and experienced QCM's to cover all TO's. The QCM shall prepare and coordinate material

submittal sheets and shop drawing submittals, prepare QC reports, schedule and coordinate testing procedures and attend all weekly status meetings, site visits, and pre-final/final inspections. The QCM shall be someone other than the Project Manager or Superintendent. QCM shall have a minimum of 5 years' experience in Quality Control Management of multidiscipline construction projects.

5.2.3. The Contractor shall provide contact information for all key personnel to include phone number and email address.

5.3. The Contractor shall also provide and maintain the following capabilities to support the SABER contract:

5.3.1. Cost estimator - Provide estimating support, capable of producing accurate quantity take-offs and cost proposals. The estimator shall have previous experience in the development of detailed quantity takeoff and line-item cost estimates for multi-discipline SABER or commercial construction projects.

5.3.2. Draftsman - The Contractor shall have the ability to reach out to adequate drafting support staff to provide a turnaround time as specified in the TO Statement of Work. The Contractor shall have adequate drafting support to fulfill the requirements for each TO. Design/drafting support shall be capable of producing accurate and complete proposal and construction drawings for several Task Orders simultaneously within the time constraints as specified in the TO.

6. Construction Requirements

6.1. All ~~design~~ and construction accomplished pursuant to this contract shall comply with the latest edition of the following documents unless the Contractor is directed otherwise by the technical specifications. Any exceptions must be approved in writing by the Contracting Officer prior to construction start-up. These specifications and standards apply to every TO, whether specified in the SOW or not. The Contractor shall ensure that the latest version of specifications are used for each TO award.
International rules such as NFPA, Unified Facilities Criteria (UFC), Air Force Corporate Facilities Standards etc. shall be considered applicable when not conflicting with other national or host nations' laws/standards.

6.1.1. Air Force Corporate Facilities Standards (http://afcfs.wbdg.org/)

6.1.2. Aviano Air Base Design Guide

6.1.3. All applicable Unified Facilities Criteria (UFC), (https://www.wbdg.org/ffc/dod/unified-facilities-criteria-UFC), with particular attention to:

UFC 3-120-01, Air Force Sign Standard
UFC 3-260-01, Airfield And Heliport Planning And Design
UFC 3-600-01, Fire Protection Engineering for Facilities
UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings
UFC 3-410-01, Heating, Ventilation and Air Conditioning Systems

UFC 4-021-01, Design and O&M: Mass Notification Systems
UFC 3-420-01, Plumbing Systems
UFC 3-530-01, Design Interior, Exterior Lighting and Controls
UFC 3-230-01, Interior Electrical Systems
UFC 3-550-01, Exterior Electrical Power Distribution
UFC 3-560-01, Electrical Safety

6.1.4. NFPA 13, Standard for the Installation of Sprinkler Systems

6.1.5. NFPA 72, National Fire Alarm and Signal Code

6.1.6. NFPA 101, Life Safety Code

6.1.7. Master Technical Specs for Construction project at Aviano AB, dated March 2020

6.1.8. International Plumbing and Mechanical codes

6.1.9. Italian CNR/CEI/UNI Norms

6.1.10. Ministerial Decree 37/08, Regulation on Health, and Safety in construction sites.

6.1.11. Italian Legislative Decree (D'lgs). 81/08 - *Salute e sicurezza nei luoghi di lavoro*/Protection of health and safety in the workplace

6.1.12. Occupational Safety and Health Administration (OSHA) requirements

6.1.13. Friuli Venezia Giulia Regional Law, 6 October 2015, n. 24., - *Norme per la sicurezza dei lavori in quota e per la prevenzione di infortuni conseguenti al rischio di cadute dall'alto* /Rules for the safety of working at heights and for the prevention of accidents resulting from the risk of falls from heights

6.1.14. EU Regulation 305/2011 - Conformity assessment services for the free movement of construction products on the European market

Where applicable and if not in conflict with other requirements, design and construction shall comply with regulations and norms listed in the **Annex 3** of *"Attachment 1 – SABER Statement of Work"*.

6.2. The Contractor shall maintain or have access to these documents during the term of this contract. If the Contractor cannot obtain these specifications, the Contractor shall request them within 7 days of contract/TO award, and the Government will provide them in electronic format. Each of these codes and specifications is applicable to each TO on this contract, whether stated specifically on the SOW or not.

6.3. If there is a conflict between these codes, regulations and Master Base Specifications the most stringent requirements shall apply, where this condition is not applicable due to conflict between norms and/or codes, IT/EU codes shall prevail over other codes.

7. Quality Control

7.1. The Contractor shall submit a Quality Control Plan (QCP) that clearly describes the Contractor's quality control program/processes. This plan shall address all aspects of quality control, including responsibility for surveillance of work by both subcontractors and in-house quality control inspectors, process for acceptance, rejection, documentation and resolution of deficiencies, trend analysis, and any other areas that specifically and exclusively relate to the acceptable completion of work and subsequent Government inspections and approval. The QCP shall be approved by the Government prior to commencement of work. This QCP shall include all phases of the construction process from design through project completion. The plan shall ensure that all components of construction meet industry standards. This plan shall remain in effect for the life of the contract. The Contractor shall maintain adequate Quality Control capabilities regardless of the volume of workload. The Government reserves the right to request any necessary changes to the QCP during the life of the contract. Individual QCPs will not be required for each TO.

7.2. The Contractor shall institute a comprehensive Quality Control Program to ensure that all materials and workmanship are in accordance with the SABER specifications, Base Regulations, Italian and Local Codes. It is the Contractor's responsibility to provide, inspect, and document the level of quality that has been established by the minimum standards of the Statement of Work and the SABER requirements in paragraph 6, "Construction Requirements".

7.3. Quality Control Manager: The Quality Control Manager (QCM) shall direct the execution of the Contractor's approved QCP with exclusive responsibility for administration of the plan and inspection of work. The QCM shall be available during normal duty hours to investigate and resolve all problems related to Quality Control when notified by the COR and/or Contracting Officer that a problem exists. The QCM shall be a separate individual from the Contract Project Manager or Project Superintendent.

7.4. Government Inspection: During the execution of the works the Government reserves the right to carry out all the visits and the controls that it considers necessary, also without warning. Upon completion of all contract items, the Government will perform a Final Inspection walkthrough of the facility according to the provisions in paragraph "23, Pre-Final and Final Inspection."

7.5. The Government inspection does not negate the need for regular Contractor quality control, nor does it indicate either expressed or implied that all codes, safety regulations or any other criteria have been followed properly. The Contractor shall comply with all codes, safety regulations, or any other criteria.

8. Provisions on Contracting Officer's Authority

No person other than a Contracting Officer (CO) have authority to modify the terms of this agreement. The Contracting Officer is the only person authorized to approve changes in any of the requirements under this agreement and not withstanding any provisions contained elsewhere in this agreement, the said authority remains solely with the Contracting Officer. **The contractor shall not take direction from anyone other than the Contracting Officer.** In the event the contractor makes any such changes at the direction of any person other than the CO,

the change shall be considered to have been made without authority and the Contractor may be unable to recover any expenses incurred. The CO is the only person who can obligate the Government; input taken and acted on changes the contract (other than health/life safety concerns) in any way received from the end user, Civil Engineering, or anyone else besides the CO is done so at the sole financial and legal responsibility of the Contractor.

8.1. Contracting Officers may delegate an individual to serve as their Contracting Officer Representative (COR) for purposes of monitoring the technical or administrative aspects of contractor performance during the life cycle of the contract to ensure the contractor provides quality products and services according to the SOW/technical specifications. After the CO designates an individual to serve as a COR, they are responsible for ensuring they fully understand the scope of their delegated responsibilities and limitations of their authority.

9. Bare Cost

Bare Cost is obtained from the applicable DEI PRICE BOOKS, the sum of the various cost items will constitute the task order Bare Cost amount which is subject to the applicability of the coefficients as described below.

10. Description of Coefficients and applicability.

Bare cost as specified in paragraph 9 is subject to be adjusted with the use of three coefficients: C1, C2 and C3. Coefficients are numerical factors and are defined at the SABER contract award and are not subject to change/negotiation during the life of the contract. All applicable coefficients will be applied to each TO for every contract year.

10.1 Coefficients' description:

Coefficient 1 (C1): discount/increase coefficient applied to the Bare Costs set by the DEI *Price List. The Contractor may propose different coefficients for each different type of macro work activity*.

The following "**Renovation, Maintenance and Sustain Works Schedule**" with coefficients shown for each macro work activity to be used for purely indicative purposes.
The Contractor shall propose coefficients for the entire term of the contract. Coefficients and escalation will not be adjusted after the initial proposal is accepted.

RENOVATION, MAINTENANCE AND SUSTAIN - WORKS SCHEDULE

	COEFFICIENT 1
A1 - PROVISIONAL WORKS	0,85
A2 - EXCAVATIONS, DEMOLITIONS, REMOVALS AND TRANSPORT	0,90
A3 - MORTARS, CEMENT CONGLOMERATES STEEL FOR REINFORCED CONCRETE	0,80
A4 - ANTI-SEISMIC DEVICES	1,00
A5 - SLABS	1,00
A6 - MASONRY AND SUBFLOOR WORKS	0,85
A7 - PLASTERS	0,85
A8 - DIAGNOSTICS, STRUCTURAL MONITORING AND SURVEYS	1,00
A9 - STATIC CONSOLIDATION WORKS	1,00
B1 - THERMAL AND ACOUSTIC PROTECTION WORKS	0,90
B2 - RENOVATION AND WATERPROOFING	0,90
B3 - ROOFS, FLASHINGS, TRIMS, DOWNSPOUTS AND GUTTERS	0,90
B4 - FLOORING, CLADDING AND STONE WORKS	0,85
B5 - SUSPENDED CEILINGS AND PARTITION WALLS	1,00
B6 - PAINTING WORKS	0,70
B7 - GLASS BLOCKS WORKS	1,00
B8 - CHIMNEYS AND EXHAUST PIPES 503	1,00
C1 - METAL WORKS	1,00
C2 - WOOD AND PVC WORKS	1,00
C3 - TIMBER STRUCTURES	1,00
C4 - GLASS WORKS	1,00
C5 - SOLAR SHADING	1,00
D1 - RESIDENTIAL ROADS AND OUTDOOR PAVEMENTS	0,85
D2 - SEWERS, AQUEDUCTS AND DRAINS	0,85
E1 - GARDENING WORKS	0,65
E2 - SPORTS FACILITIES	1,10

Coefficient 2 (C2):

Coefficient C2 is used when the order requires the execution of works in specific locations and/or hours/and or Holidays as specified below.

Coefficient C2 is comprised of the following sub-coefficients that are to be applied based on a case-by-case basis as required in each TO Request for Proposal (TORFP):

C2A: coefficient to be applied for work performed during standard hours (Monday through Friday, 7:00 AM 5:00 PM. This coefficient shall consider the fact that works will be performed in a military installation: suspension of work without advance notice, latency at the entrance gate, administrative duties for compliance abide by local regulations (i.e. ID pass requests, driving licenses obtained, specific training) shall be considered.

C2B: coefficient to be applied for works performed during non-standard hours and/or Holidays. For the list of applicable Holidays see Section H. Non-standard hours begin at 5:01 PM and end at 6:59 AM.

C2C: coefficient to be applied for works performed in RESTRICTED areas where works are to be performed under the supervision of military escorts at all times. This coefficient shall consider the fact that military escorts may not be always available on time or may leave the site without prior notice for ongoing military operations.

C2D: coefficient to be applied for works performed in the AIRFIELD area. Works in the Airfield area are subject to continuous coordination with the Airfield Management Team to not interfere with flight operations. Obtaining driving licenses for all personnel, use of precautions while driving in the airfield, special requirements for site mobilization, possible suspension of work without advance notice, maximum care in the cleaning of the work site shall be considered.

Coefficient 3 (C3):

C3 will measure the yearly inflation. The Contractor shall propose for each-year a coefficient that is not subject to negotiation during contract execution.

The coefficient for each year will be the same for all the DEI price lists.

11. How the Total Project Cost is Computed

The task order computation will follow the formula:

(CxC1)*(C2A*C2B*C2C*C2D*C3)

<u>NOTE: Only C2 coefficients applicable to the specific TORP will be considered into the calculation. C3 coefficient will refer to contract year applicable to the TORP</u>

Find below an examples of cost computation for a TO:
Project that includes mechanical and electrical works, performance year 2, work in Airfield to be performed during nighttime.
Coefficients proposed:

- C1 = Coefficients will vary based on macro work activities as per table above

- C2A = 1,02
- C2B = **1,01**
- C2C = 1,02
- C2D = **1,25**

- C3 = (1st year=1,02; **2nd year=1,03**; 3rd year=1,04; 4th year=1,05; 5th year=1,06.

PRICE LIST REFERENCES			COEFFICIENTS										COST ESTIMATE
	DEI CATEGORY	BARE COST (C)	C1	C2A	C2B	C2C	C2D	C3	C3	C3	C3	C3	TOTAL COST CxC1x(C2AxC2BxC2CxC2D)xC3
MECANICAL WORKS			Discount or Increase	Regular Hours	Holidays Night Time	Restricted Areas	Airfield	1st	2nd	3rd	4th	5th	
Item 1	HEATING SYSTEM	100.00 €	0.89		1.01		1.25		1.03				115.73 €
Item 2	CONDITIONING SYSTEM	230.00 €	0.88		1.01		1.25		1.03				263.20 €
Item 3	AUTOMATION AND PLANT CONTROL	50.00 €	0.85		1.01		1.25		1.03				55.27 €
ELECTRICAL WORKS													
Item 1	LOW VOLTAGE TRANSMISSION AND DISTRIBUTION SYSTEM	120.00 €	0.99		1.01		1.25		1.03				154.48 €
Item 2	ELECTRICAL EQUIPMENT LOW VOLTAGE SYSTEM	20.00 €	1		1.01		1.25		1.03				26.01 €
	TOTAL BARE COST	520.00 €								TOTAL COST			614.69 €

A typical Cost estimate sheet is shown in **Annex 1** of *"Attachment 1 – SABER Statement of Work"*.

11.1. The Contractor shall consider the following factors which affect the calculation of the coefficients:

11.1.1. The coefficients shall be established for the term of the contract.

11.1.1.1. **The Price List prices are for final total cost works. There shall be no allowances added for waste, compaction, storage, shipping, staging, handling, etc.**

11.1.1.2. The coefficient shall cover all items including all general conditions. In determining their coefficient, the Contractor shall include the cost for performing all services unless expressly prohibited elsewhere in this SOW or the SABER contract. The coefficient shall include but is not limited to, the following: all costs to obtain, maintain, update, etc. the Price List and cost estimating software "Primus" by ACCA SOFTWARE or similar; overhead and profit for both the prime Contractor and any subcontractors or suppliers;

mobilization/demobilization; insurance; protection of Government property to include any fencing or barriers inside or outside of a building; costs of as-built research/site verification and investigation; expenses, charges, claims, fines, and/or fees incurred by compliance with any standard, regulation, or law (including environmental and/or tax laws); general & administrative expenses; prime and subcontractors' expenses; and for transportation to and from the jobsite, insurance, administrative/technical support and labor burden for the prime Contractor's office staff and workforce.

11.1.1.3. All vehicles, office supplies/setup, administrative requirements, Personal Protective Equipment (PPE) and equipment/tools which are customary to the trade shall be part of overhead and therefore included in the coefficients. Under normal circumstances, no equipment/tool rental shall be allowed as a direct cost to any Task Order. For example, the Contractor shall provide and maintain equipment/tools such as a generator, gasoline powered pump with hoses, laser level, flatbed trailer, etc. The cost of maintaining, operating, mobilizing, demobilizing, and transporting the Contractor's equipment shall be included in the coefficient.

11.1.1.4. Daily clean-up shall be performed at all active project sites. It shall NOT be a direct Task Order cost but shall be paid from the coefficient.

11.1.1.5. Equipment rental shall NOT be allowed as a direct cost to any Task Order, except under special circumstances such as performing work which is not normal for a given trade. EXAMPLE: TO is issued to replace light bulbs in a high bay. Rental of a scissor lift shall be part of the TO as a direct cost because this is not a normal tool or equipment a Contractor would purchase and maintain.

11.1.1.6. Tarpaulins, temporary controls, tethers, work site signs, site security, required permits, licenses, submittals, drawings, and other risks to doing business shall be included in the coefficient.

11.1.1.7. Design fees and fees for as-built documentation will be priced per TO and shall NOT be included in the coefficient.

12. Non-Priced Line Items (NPI)

12.1. Any item of work not found in the DEI Price Book but required under an individual TO may be negotiated by the Government as a Non-Priced Item. NPI includes only direct costs.

12.2. Non-priced items once negotiated and used in a TO will be added to Aviano Air Base additional price list as supplement to the DEI Price Book. Uses of items previously added to the Supplement in subsequent TOs shall be considered pre-priced items in those subsequent TOs.

12.3. NPIs shall not exceed 25% of the cost per TO.

12.4. If the Contractor's TO proposal includes any non-priced items, the items cost shall be negotiated. The burden of justification for the dollar value of the NPI falls on the Contractor, who shall provide documentation from a minimum of three independent sources of the actual installed cost of the item.

12.5. Excessive pass-through charges are not allowable and will be reduced or removed, if found, during the negotiation. The following documentation shall be provided at negotiations:

12.5.1. A minimum of three (3) independent written price quotes which shall include; material(s) description with unit price and installation cost. The price quotes shall be submitted on the Vendor's letterhead and be signed by the owner or authorized representative of the company. The Contractor and the Government will negotiate the labor hours required to install the NPI and any other appropriate mark-ups and the fixed coefficient. If three (3) suppliers cannot be found, the Contractor shall submit at least one price quote with their proposal and provide documentation of efforts taken to obtain the three (3) quotations. If the NPI has a commercially available price list, the Contractor shall submit that with the proposal. The Government will determine price reasonableness through processes allowable under FAR Part 15 and negotiate the labor hours to install the NPI and any other appropriate mark-ups and the fixed coefficient. If price reasonableness cannot be determined and the material cost is significant, the Contractor shall break down each unit of cost the Contractor will pay for the NPI to facilitate the price reasonableness determination. If the NPI is a custom-made item, the Contractor shall submit the manufacturer's itemized costs with their proposal.

12.6. Accessory items that don't have a separate price and that are usually required for the performance of a priced work item cannot be negotiated as a separate NPI

13. Task Order Procedures

13.1. As the need exists for performance under the terms of this contract, the Government will notify the Contractor of an existing performance requirement and request a price from the Contractor for a "one job, lump sum" Task Order. The Government will provide to the Contractor a Task Order Request for Proposal (TORFP) with a Statement of Work (SOW) describing the work to be performed, which may include special instructions and conditions, and potentially a Material Submittal Register (AF Form 66). The Contractor WILL NOT be reimbursed for any Pre-Task Order costs including proposal preparation and attendance during negotiations or site visits.

13.1.1. For each project or solicitation, the Contractor will be furnished with one (1) digital copy of the Government's Statement of Work (SOW), or Specifications (if fully designed), Construction Cost Estimate Breakdown (CCEB) worksheet and drawings, if applicable, from the Contracting Officer or his/her designated Contracting Specialist. Although the Contractor is given a design package, the Contractor shall verify/validate existing site conditions prior to submitting their proposal package to the Government. The Contractor may reproduce the drawings

and specifications at the Contractor's own expense if additional copies are needed. The Contractor shall check all drawings and specifications immediately upon receipt for discrepancies and notify the Contracting Officer or his/her designated representative immediately of all discrepancies found in the form of a Request for Information (RFI). The RFI shall be forwarded to the Contracting Officer for review and in-turn forwarded to the assigned COR for review, clarification and response. Enlarged plans and details shall govern where the same work is shown at smaller scales. The Contractor shall review all drawings and verify the installation before laying out the work and shall be responsible for any errors which might have been avoided thereby. Where drawings are not provided as part of the TORFP, the Contractor shall perform field investigation, historical record research, design including construction drawings, engineering and constructability review necessary to ensure the drawings are accurate and complete.

13.1.2. The design and engineering required for this contract is at the level normally expected of a general construction contractor and considered incidental to the accomplishment of the scope of work provided by the Government. Examples of services required from the Contractor include sizing and selection of electrical and mechanical equipment and systems; sizing of electrical circuits (i.e., wiring and cable sizing; to include pole mount and pad mount transformers sizing), electrical devices, heating and ventilating air ducts, fluid piping systems and light structural framing members; lighting layout; fire detection systems; surveying; computer aided drafting, etc.

13.2. Project Site Visit

13.2.1. After the release of a TORFP, the Government and the Contractor will schedule and conduct a pre-proposal site visit for project. Discussions held during the site visit may include, but are not limited to scope of work, method of construction, sequence of operations, progress schedule, means of access to project site, delivery and storage of materials and equipment, work restrictions, coordination requirements, project goals, liquidated damages and potential difficulties/problems. The Contractor shall email detailed site visit minutes to the Contracting Officer within one (1) business day following the day of the site visit. The Contracting Officer or designated Contracting Specialist shall provide consolidated site visit minutes to the Civil Engineer Squadron SABER Project Manager(s) within two (2) business days following the site visit. The Contractor shall comply with the requirements of the clause at FAR 52.236-3, Site Investigation and Conditions Affecting the Work.

13.2.2. Any questions asked during the site visit or identified after the site visit should be submitted as a Request for Information (RFI) to the Contracting Officer and designated Contract Specialist within seven (7) calendar days after the site visit.

13.3. On-Site Conditions

13.3.1. Drawings may not be available or provided for all locations where work will be performed. Drawings showing the location of equipment, piping, ducts and

conduit, are diagrammatic and may not show every detail required. In addition, site conditions will not always permit installation in the locations shown on the concept drawings. Drawings showing equipment, piping, ducts, conduit, etc. to be removed, altered, or installed may require deviation from the configuration of the demolition or installation drawings due to existence of conflicting ducts, conduits, hangers, light fixtures, structural items, and temporary walls, etc. All such minor details of work which are not shown in the drawings, as well as such items not specifically mentioned in the specifications, but which are essential and necessary for the completion of the work, and to make all systems or equipment operational, shall be considered as incidental and shall be included as part of the work. When this situation occurs, the final placement of permanently installed items shall be subject to approval by the Government. The Contractor shall be responsible for inspecting to his satisfaction all areas/items of possible conflict. Failure to verify the dimensions and locations will be at the Contractor's risk and shall not relieve the Contractor from accomplishing the work required by the TO.

13.4. Project Proposal

13.4.1. For every TORFP associated with a new TO, the Contractor shall provide a written proposal describing the Contractor's approach to the proposed project work described in the Government's Statement of Objectives (SOO) or Specifications and project drawings, if any. The TORFP will specify the required contents of a project proposal, which may include: a Cover Letter, a Statement of Work narrative describing their approach to the proposed project work as described in the Government's SOO or Specifications to include all major components of the project; a detailed CCEB for all work to be performed and all major components of the project; an AF Form 66, Schedule of Material Submittals; a detailed project schedule in Microsoft Project, or equivalent, that includes all major components of the project, their associated costs and percentage of effort; an AF Form 3065 detailing the major components and the associated percentage of the construction effort; and any other information as needed to demonstrate a complete and thorough understanding of construction effort. The Contractor shall submit the proposal within the timeframe specified in each TORFP. The following details are the contents required in each element of the Contractor's response to a TORFP:

13.4.1.1. Cover Page. The cover page or pages shall include project title, total project cost, list of assumptions, and list of requirements, performance period, material lead times, and any special considerations such as phasing of construction. The Contractor's proposals shall be complete and concise; the Contractor shall limit the number of pages to the maximum extent practicable. The cover page shall include, but is not limited to, a discussion of the overall performance time for all design and construction phases, necessary management and trade disciplines to complete the project, any major subcontractors and their involvement throughout the process, including trade disciplines to complete the project, and a statement with particular attention to quality, timeliness, and cost control. Describe offeror's ability to accomplish at least 15 percent work

in-house.

13.4.1.2. Statement of Work (SOW). If required by the TORFP, the Contractor shall provide, as part of the proposal, a SOW. The SOW shall provide a written narrative describing the Contractor's approach and shall document the Contractor's basic design solution to the subject project. The Contractor shall not simply re-state the goals of the Government SOO/Technical Specifications but provide sufficient information to demonstrate to the Government a complete and thorough understanding of the requirement and all applicable codes and regulations.

13.4.1.3. Design Documentation. If required by the TORFP, design incidental to accomplishing the required tasks outlined in each TO project may be required. The extent of these designs will depend upon the complexity of each TO project. However, the Contractor shall provide sufficient design documentation to substantiate the proposed approach for the task. Design documentation shall provide enough detail to verify line-item quantities in the cost proposal are accurate and enough detail to clearly convey to the Government what the Government will be receiving. All designs shall clearly illustrate compliance with local and Italian building and construction codes. After the site validation visit, the Contractor shall begin preparation of design documentation that clearly illustrates the proposed design solution, quantities, dimensions, materials etc. This documentation may include any or all the following, but is not limited to:

13.4.1.3.1. Drawings. When required, design drawings submitted by the Contractor shall show the basic layout and planning of work. Shop drawings shall show in detail the proposed fabrication and assembly of structural elements and/or the installation (i.e., form fit, and attachment details) of materials or equipment. Drawings must have sufficient detail to enable both the Contractor and the Government to understand the work to be accomplished.

- For the purpose of this requirement, the term drawings includes actual construction drawings, shop drawings, fabrication drawings, erection drawings, diagrams, layouts, schematics, descriptive literature, illustrations, room finish schedules, lighting/panel schedules, lighting level analysis plans, load/distribution schedules/calculations, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions as may be required by an individual TO.
- The Government may indicate minimum drawings that are necessary for each individual TO project. Typical types of drawings required on TO include the following:
  - Title/Location/Legend/Index Sheets, Site Plans, Grading/Landscaping
  - Plans, Underground Utility Plan and Profiles, Demolition Floor Plans

- New Work Floor Plans, Wall Sections, Building Section, Finish Schedules, Window and Door Schedules, Mechanical Plans and
- Equipment Schedules, Plumbing Plans and HVAC Riser Diagrams,
- Electrical Plans and Wiring Diagrams, Electrical Equipment and Panel
- Schedules, Lighting Plans and Schedules, Communications Plans
- Fire Protection Plans, Structural Plans, Roofing Plans, Wall and Roof Sections, Reflected Ceiling Plans, Elevations (Interior and Exterior), and Associated details.

13.4.1.3.2. Design Calculations. The Contractor shall provide, as part of the proposal, design calculations to substantiate appropriate equipment or material selection/sizing, component assembly, proposed layout and sizing of utilities and structural elements (i.e. HVAC Loads, Lighting, Platform Supports, etc.). The Contractor shall supply the following calculations per each TO project, as applicable:

- Mechanical: HVAC load analysis and unit sizing, pipe sizing and duct sizing.
- Electrical: Electrical system capacity, conductor, conduit, protective devices and other equipment sizing.
- Structural: Structural system and foundation sizing.
- Pavement/Site Work: Area run-off quantities, drainage capacities and grading slopes.
- Lighting: Lighting level analysis and lumen/foot-candle levels for each room or area.
- Energy: Provide energy savings and Return on Investment (ROI). See **Annex 4** of *"Attachment 1 – SABER Statement of Work"*.
  for electrification and energy savings policy to be followed in design development.

13.4.1.4. Cost Estimates

13.4.1.4.1. All TO shall be estimated, negotiated, and awarded based upon prices in DEI Price Book, see Paragraphs 2.7, and 9 through 13. The cost estimate portion of the Contractor's proposals shall be prepared and produced using the cost estimating "ACCA Software" format. This applies to all work done on SABER task orders, even if work is done by subcontractors.

13.4.1.4.2. Items not in the Dei Price Book, known as Non-Priced Items (NPI), may be proposed in accordance with the policy outlined in Section 11. The cost estimate portion of the Contractor's proposals shall be in "ACCA Software" format and shall be prepared and produced using Dei Price Book. Cost estimates must be logical, demonstrating a reasonable approach in construction methodology in both line items and quantities

proposed. The elements of the cost estimate should correlate to the construction elements identified in the Statement of Work.

13.4.1.4.3. Cost estimate shall be submitted in "ACCA Software" or equivalent format as approved by the Contracting Officer. The Contractor's coefficient will be applied to the Total Bare cost. Typical example is shown as **Annex 1** of *"Attachment 1 – SABER Statement of Work"*.

13.4.1.5. Priced Line Items

13.4.1.5.1. The DEI ~~Dei~~ Price Book shall serve as the basis for Annex **1** *of "Attachment 1 - SABER Statement of Work"* establishing the value of the work to be performed on a unit price basis.

13.4.1.5.2. The Contractor's proposal on every Task Order must be supported by necessary documentation as required, to indicate that adequate engineering and planning to accomplish the requirement have been done to minimize any delays in the construction process. Examples of documentation that might reasonably be expected would include sketches, construction drawings, calculations, catalog cuts, specifications, architectural renderings, detailed scope of work etc.

13.4.1.5.3. The Contractor's proposal on each Task Order shall also be supported by a detailed materials take-off with applicable pricing applied from the Dei Price Book.

13.4.1.5.4. Cost estimate shall be submitted in the format approved by the Contracting Officer. The Contractor's coefficient shall be applied to the Total Bare cost,

13.4.1.5.5. Time allowed for submittal of the Contractor's proposal documents for individual requirements will be specified in the TORFP from the date of site visit.

13.4.1.6. Non-priced Line Items

13.4.1.6.1. All non-priced work to be included in an individual project proposal must be supported with the information called for in Section 11 Non-Priced Line Items.

13.4.1.7. Schedule of Material Submittals. The Contractor shall prepare and provide as part of the proposal package an AF Form 66, Schedule of Material Submittals. The AF Form 66 shall include all reports, construction materials, and documentation that have a material effect on the construction effort including, but not limited to: large purchase items; long-lead items; required reports; and as-built drawings. Submittal requirements are identified in Section 01100 of Master Technical Specifications for Construction Projects at Aviano Air Base,

dated March 2020.

13.4.1.8. Construction Schedule. The Contractor shall submit the construction schedule in one copy. In accordance with FAR 36.515 and the clause at FAR 52.236-15, a progress schedule (construction schedule) is required for task order projects with a performance period greater than 60 days or more unless the Contracting Officer requests otherwise. The progress schedule shall be accomplished on and in accordance with the instructions pertaining to the obsolete AF Form 3064, Contract Progress Schedule, which will be provided by the contracting office after award. Progress Schedule shall include all major components of the project, their associated costs and percentage of effort, and completed in accordance with the instructions on the reverse side of the form, or as directed by the Contracting Officer. The construction schedule should demonstrate a logical progression of the work effort from award to close-out. An allowable performance period shall be based upon the total labor hours associated with the project and the amount of work already in progress on other TO's. As a guideline, the Contractor may be expected to have crews on-site for approximately 10 projects simultaneously. This is just an estimate and will fluctuate with actual work. The Contractor shall also submit an AF Form 3065 detailing the major components and the associated percentage of the construction effort. After task order award, the Contractor shall provide monthly construction updates on an AF Form 3065, Progress Report.

13.5. Task Order Award Process

13.5.1. **Proposals will be determined technically acceptable when they demonstrate a** complete understanding of the task order requirement based upon a review of each of the submitted documents. When necessary and/or as a result of technical evaluation, the Government will negotiate with the Contractor all non-pre-priced items, quantities for all pre-priced and non-pre-priced items, and performance times.

13.5.2. TO's shall then be issued by the CO using a DD Form 1155. Each TO shall include the following information:

- Date of the task order
- Contract number and task order number
- Point of Contact (PoC)
- Site visit date
- Inspection and acceptance locations
- Item description and lump sum amount.
- Task order price, delivery or performance data
- Accounting and appropriation data.
- Liquidated Damages.
- Design, if applicable.
- Drawings, if applicable.
- Contractor's Statement of Work, if applicable
- Construction Schedule.

13.5.3. If differing site conditions or changes to the scope of work are encountered after Task Order award, a modification to the TO shall be made. Prices must be negotiated.

13.5.4. Observance of Host Country Social Contribution Labor Law. For each Task Order issued, the Contractor throughout the contract life shall scrupulously observe the requirements of Italian Law regarding the payment of social contributions for Italian national employees as well as the similar laws/directives for employees who are citizens of any European Community member nations.

13.5.5. Normally, the Contractor will only be paid monthly for completed Task Orders. If the performance period of a Task Order exceeds 60 days, partial payment(s) may be authorized.

13.6. Task Order Funding

13.6.1. Proposals may be requested and processed up to the point of award, in advance of funding. Proposals processed up to award may remain on hold, pending funding, for a period of one year. It is the Government's intent to award a task order for each proposal processed up to the point of award; however, due to changes in the construction program, congressional budget changes or world events, some projects may be canceled. No compensation for cancelled projects will be granted to the Contractor.

14. SABER Economic Price Adjustment

The prices applied to the SABER contract refer to the DEI Price Books identified in paragraph 2.7. 1. The contract will be based on the DEI Price Books issued in the year of the acquisition of the contract, starting from the second year of the contract, the prices shall be adjusted each year by an incremental o decremental percentage to compensate the inflation cost, as described in paragraph 10.1.

During the contract period, significant increases in material costs may occur due to changing market conditions. In this case the Contractor will have to inform the CO about the increase and negotiate the new price subject to cost increase

15. Computer and Software Requirements

15.1. The Contractor must be provided with the latest version of the software "Primus" by "ACCA SOFTWARE" or an equivalentwith which to manage and share with the contracting office the technical and economic information of each T.O. At the beginning of the Contract the Contractor shall purchase the current year Dei Price Books, indicated in paragraph 2.7.1. The Contractor must provide, install, and maintain all computer hardware for contractors use. <u>The Contractor is not required to provide the Government with any computer hardware or software, since it has its own, and vice versa.</u>

15.2. The Government SABER Office will use the latest version of "Primus" by "ACCA SOFTWARE" in conjunction with the current year DEI Price Books shown in paragraph 2.7. 1.

15.3. The Contractor shall also install and maintain a copy of the latest version of AutoCAD (to be verified by contracting officer) on Contractor's equipment for the development of construction drawings and "As-Built" drawings. In addition, if the Contractor elects to establish a Management Office on Aviano AB he/she must be able to get E-Mail on the computer(s) located in this office to send and receive AutoCAD drawings. All drawings submitted by the Contractor shall be created from Computer-Aided Design and Drafting (CADD) software. Drawing files shall be compatible with AutoCAD, without any need for translation or modification by the Government. AutoCAD drawings shall comply with the Tri-Service Center's A/E/C and Spatial Data Standards. Custom menus, line types and text styles shall NOT be used without prior approval of the Contracting Officer. All external reference drawings if used must be provided with the basic drawing and be modifiable if required. The Contractor shall submit all CADD drawing files on a CD-ROM. Drawings shall be provided in double language, English/Italian.

16. Pre-Performance Conference:

Prior to the issuance of the first Task Order under this contract, the Contracting Officer may elect to host a pre-performance conference. The purpose of this conference shall be to familiarize the Contractor with Government policies and procedures that are to be observed during the execution of this work and to develop mutual understanding relative to the administration of the contract. The Contractor and subcontractors shall be represented at the scheduled conference and be prepared to discuss potential difficulties and obstacles.

17. Construction Start Up Period

Award of the contract may start with a SEED project that will be awarded at the same time as the contract. If not a SEED project an award of the guaranteed minimum will be issued with a Task Order.

18. Commencement, Execution, Completion and Payment for Work

18.1. The Contractor shall be required to commence work required by a Task Order at the time specified on the Notice to Proceed (NTP), execute the work, and complete the entire work not later than the completion time specified on the NTP. The time stated for completion shall include final cleanup of the premises. At the Government's option, it may choose to specify a two-stage performance period. For example, separating material lead-time from construction days can considerably decrease the length of time occupied buildings are inconvenienced by construction. Provisions for liquidated damages will be determined on each Task Order by the Contracting Officer.

18.2. The Contractor will be paid monthly upon submission of proper invoices for completed

Task Order's. If the performance period for a TO exceeds 60 days and a progress schedule (AF Form 3064) has been submitted and approved partial payment(s) may be authorized. Invoices shall be submitted to the Contracting Officer on a monthly basis for each individual TO that partial payments have been authorized. Final payment on a TO will be withheld until all discrepancies are corrected and as-built drawings are approved by the Government Project Manager.

19. Weather Days

19.1. The Contractor's Task Order proposals shall consider the number of weather days and performance days included in the total performance time. For outside work, the published average number of weather days shall be included in any negotiated performance time. Should inclement weather over and above the published average occur, the Contractor may request additional time if the work was affected.

19.2. Any request for additional weather days must be annotated in the remarks section of the Contractor's weekly progress report (AF Form 3065), and shall include the following information:

19.2.1. Each specific day requested.

19.2.2. Reason for each day requested, including which trades were affected

20. Welding Permit

No welding, soldering, torch cutting, or open flame torch jobs will be permitted without first obtaining an AF Form 592 “Welding Permit” from the Base Fire Department. A copy of the AF Form 592 "Welding Permit" will be posted at each Job Site whenever torch work is in progress. All fire and safety regulations are to be stringently followed.

21. Excavation Permit (Dig Permit)

21.1. The Contractor shall apply for and obtain a properly approved and coordinated excavation permit(s) (AF Form 103) prior to any excavation. The Contractor shall submit AF Form 103 four weeks prior to scheduled work to allow for the coordination process. The SABER project manager upon request will provide the Contractor with a blank AF Form 103 which is to be filled in by the Contractor. The Contractor shall attach to the AF Form 103 drawings and/or details showing the exact location and description of the type of excavation to be accomplished. The Contractor shall insure that the location of all underground utilities, once located and marked by the Government, are adequately maintained to preclude re- marking by Government personnel. The Contractor shall maintain all markings and protect utilities for every TO, whether specified in the SOW or not. Should any one of the coordination points indicate an additional underground utility or structure over and above those shown on the contract drawing either by sketch on the contractor's drawing, by field pointing, or by flagging, the Contractor shall be

responsible for protection of each of the items indicated. If the Contractor damages any of the items indicated, he shall be responsible for prompt repair of the damage to return the item to its original workable condition. The Contractor is also responsible for repairing anything else effected by utility strikes and providing temporary utility service until permanent utilities are restored at no cost to the Government.

21.2. Excavations for street and existing utility will also include the following requirements unless waived by the Contracting Officer. Prior to the start of work, all valve locations will be identified/located so the utility can be shut off in the event of accidental damage. To preclude accidental damage, the Contractor shall 'pothole' the entire area that will be excavated to locate any unmarked utility lines. Any utilities discovered during excavations that are not shown on the drawings or staked by the Government will be marked on the contract drawings and will be identified on the Contractor's as- built drawings. The utilities will be protected by the Contractor and if damaged will be repaired by the Contractor as if they were marked by the Government.

22. Special Requirements

22.1. Concrete Pours & Site Work: The Contractor shall coordinate all concrete pours with the CES Project Manager. The Contractor shall make such coordination in writing or by email a minimum of 3 business days prior to the day the pour is expected to occur. The Contractor shall clear and grub any undisturbed areas prior to placing the foundation. All site surveying to properly lay out a building or construction site or determine proper site drainage, rise, slope, etc., shall be included in the Contractor's coefficient. The Contractor shall not stockpile excavated dirt or other material from one project site and use it at a different project site without the written approval of the Contracting Officer. If the Contractor or the Government wishes to reuse excavated dirt, asphalt millings, etc. from another project site, line items will be negotiated for loading, hauling & spreading only (or other line items as applicable). Otherwise, all excavated materials, if not used on project site, will be removed from the Base.

22.2. Construction Testing: The Contractor shall provide to the Government all geotechnical and compaction tests, slump tests and cylinder tests for all critical and/or load-bearing concrete and/or asphalt structures, roads, driveways, parking lots, or as requested by the Government. The site must meet minimum specified testing requirements prior to the Contractor commencing form work for concrete. All concrete used for structural, foundation, drive, and/or roadway work must meet minimum specified slump requirements or be rejected by the Contractor. All costs for concrete, asphalt, or site testing will be included as line items in the Contractor's proposals. The Contractor shall use the prices shown in Dei Price Book, for any testing line items.

22.3. Environmental testing: The Contractor shall provide complete environmental testing (asbestos/lead-based paint/etc.) as part of their design and the results shall be provided to the Government. All testing and reports shall be a part of the Contractor's coefficient and shall be performed during task order design in order to supply the Government with a complete proposal. However, the Contractor shall include all abatement/remediation costs, as determined by the testing reports, in all proposals (i.e. remediation costs are

NOT to be included in the Contractor's coefficient). Since the testing company is a sub-contract to the SABER Contractor, any environmental hazard discovered in the tested area after contract start will be removed at no extra cost to the Government, unless it is determined by the Contracting Officer that normal, non- destructive site investigation would not have found the material. This will be determined on a case-by-case basis. Note: Screening and vapor barriers erected as part of abatement work are not covered in paragraph 10.2. and shall be included in the Contractor's proposal.

22.4. Chillers: If replacing a chiller as part of a TO under this contract, the Contractor shall purchase a Blue Box brand chiller, or approved equal, based on the USAF HQ direction to standardize chiller replacements throughout the base. Blue box brand chillers, or approved equal, must meet all design and construction criteria as specified in the TO. See Annex 5 of "Attachment 1 - SABER Statement of Work", HVAC Chillers System Standardization.

23. Pre-Final and Final Inspection

23.1. The Government normally will not perform a pre-final inspection of work accomplished on Task Orders. The contractor may request a pre-final inspection for the purpose of having the Government assist in identifying potential problems prior to the final inspection, but the Government has the right to deny the request. If the Government agrees to perform a pre-final inspection, any discrepancies identified must be corrected before scheduling a final inspection, unless waived by the CO.

23.2. The Contractor shall submit a written request for final inspection to the Contracting Officer, with the following attachments:

23.2.1. Corrected "as-built" drawings in the format of a dwg file and pdf file stamped and signed with "As Built" and all final documentation, as listed at point 23.3.1, on a CD.

23.2.2. A QC report signed by the Quality Control Manager (QCM) listing any outstanding discrepancies.

23.2.3. Schedule showing completion dates to rectify outstanding discrepancies noted in QC report.

23.3. The Government retains the right to stop all Final Inspections if any incomplete construction items are considered by the Contracting Officer to be major work items or if the quantity of punch list items is considered by the Government to be excessive. The rescheduling of the final inspection will occur after a minimum 24-hour waiting period. If the final was scheduled on the contracted date of completion and the final is terminated by the Contracting Officer, Liquidated Damages (LD's) may be assessed before another final inspection can be scheduled. The task order is not considered to be "final" until the Final Inspection walkthrough is completed to the Government's satisfaction.

23.3.1. Completion of the performance period does not constitute task order completion. Upon final inspection, the Contractor may invoice for up to 85% of the contract

amount. The final 15% is held back until all close out items are complete. These close out items include, but are not limited to:

DD Form 1354 (Real Property Transfer)
Material submittal registers
As-builts
Dump tickets
Installed equipment lists
Asbestos Manifest
Asbestos abatement summaries
Compaction results, etc.
O&M manuals
Closeout Transmittal
31 CES Operations, Maintenance & Warranty Checklist
Declaration of Compliance (Di.Co.), as per DM 37/2008
Declaration of Respondence (Di.Ri.), as per Dm 37/2008

23.3.2. The Contractor shall submit all close out documents as one complete submittal package. The Government will neither accept a partial submittal of the close out documents nor a partial billing of the final 15% of the task order. The Government shall only approve payment of the final 15% on the task order when all close out documents have been received AND approved by the Contracting Officer.

23.3.3. The Government estimates that the preparation time for all close-out documents for a task order package will take approximately two weeks.

23.3.4. All warranties including the standard two-year construction warranty on all task order work and ten-year roof warranties (addressed in the SOW – refer to UFC's), shall be submitted with the close out documentation submittal and all costs associated with these warranties shall be included in the Contractor's coefficient.

23.3.5. Government Approval of Work: The Government will notify the Contractor that work for a specific Task Order is or is not acceptable. Invoices for a specific Task Order shall not be permitted until the Government has accepted the work.

23.4. Any request for final inspection shall be submitted a minimum of five (5) working days prior to the desired date, unless waived by the Contracting Officer. Final inspection should be scheduled to occur prior to the specified contract completion date. Any other inspections, to include wall inspections, above ceiling inspections and rebar inspections, that occur throughout the course of the project must be requested by the Contractor a minimum of 5 (five) working days prior to the desired date.

23.5. Final inspections will be conducted by the Contracting Officer or his authorized representative with the Civil Engineering SABER Project Manager, Contractor, and using agency representative. Discrepancies noted on the "punch list" will be corrected by the Contractor within the time limit specified by the Contracting Officer.

24. Warranty

The Contractor shall provide a minimum two-years warranty on all work in accordance with FAR 52.246-21, Warranty of Construction, and Italian law Codice Civile.
This minimum warranty extension may vary according to the type of labor. The applicable warranty periods will be specified for each Task Order. The Contractor will be notified of warranty issues by the Contracting Officer. After being notified of a problem, the Contractor must investigate the issue and respond within 24 hours.
See the **Annex 6** *of "Attachment 1 - SABER Statement of Work*", Contractor's response to construction to warranty service requirements".
If the Contractor believes the issue is not warranty related, he may request a fact-finding visit with the Contracting Officer and SABER Project Manager. If the fact-finding meeting determines the issue is warranty related, the Contractor must repair the item within 48 hours, or as determined by the Contracting Officer. In case the issue is not warranty related the fact finding shall be at NO COST for the GOV.

24.1. All warranty work will be performed by the Contractor to the complete satisfaction of the Contracting Officer in accordance with the applicable specifications. At the end of the warranty action the Contractor will provide a final report of the performed work, modifying/updating where required the previous submitted documentation (As built, Declaration of compliance, etc.)

The Contractor is responsible for ensuring subcontractors fulfill warranty requirements on their work. All manufacturer warranties installed under an individual Task Order shall be submitted to the Contracting Officer with 31 CES - " Operation, Maintenance & Warranty Checklist " prior to Task Order close-out.

25. Government Furnished Equipment

25.1. Government Furnished Equipment/Materials (GFE/GFM) will not be furnished to the Contractor as a general rule. However, the Government reserves the right to provide GFM and/or Government Furnished Equipment (GFE) to be used on any Task Order. If GFE and/or GFM is provided ONLY the prices for labor and equipment cost will be used. The non-priced items clause will be used to price work involving GFE/GFM if and only if the Dei Price Book does not cover the work required.

25.2. In cases where GFE or GFM is furnished the Contractor will be required to receive the materials, and with his own forces, shall transport all items from the Government storage area to the work site indicated on the Task Order. The Contractor assumes the risk and responsibility for the loss or damage to Government furnished property.

25.3. The Contractor shall follow the instructions of the Contracting Officer's Representative regarding the disposition of all Government-furnished property not consumed in performance of a Task Order.

26. Work in Occupied Areas

26.1. The buildings in this contract include multiple use type facilities. They may or may not be occupied when work is going on in them. All work in medical facilities must be coordinated through the Contracting Officer and the SABER Project Manager with hospital staff liaisons to minimize interruption of service. It is the Contractor's responsibility to take whatever measures are necessary to assure the protection of occupants' assets, furnishings, equipment, etc., and to perform the work so as to cause minimal disruption of ongoing activities in occupied areas. All coordination must be accomplished with a minimum of five (5) working days in advance of anticipated on-site start date. In addition, secure or restricted access areas may require additional coordination to gain access. Contractor shall ensure proper coordination ahead of time to gain access and may not request additional compensation unless working in these areas on a regular basis for a TO.

26.2. Delivery of materials and equipment shall be made with a minimum of interference to Government operations and personnel.

26.3. Any temporary construction used by the Contractor for preventing interruption of normal work activity, dust control, or loss of utilities services, etc. shall be subject to approval of the Base Civil Engineer through the Contracting Officer.

27. Coordination with Government Activities

27.1. The Contractor shall adhere to the requirements of each individual user organization. Any infringement on the normal working conditions (i.e. closing a hallway) shall be coordinated with the user at least 24 hours in advance.

27.2. If it becomes necessary to interrupt the using agency's work activities in buildings and/or areas for construction purposes, permission to do so must be requested in writing to the Contracting Officer fourteen (14) calendar days in advance. Written requests for street closings will be submitted to the Contracting Officer for approval forty-five (45) calendar days prior to closing of the street. The Contracting Officer shall coordinate requests with the Base Civil Engineer.

27.3. Work in connection with this contract which requires a temporary outage of any utility services (electrical, water, gas, Fire Detection etc.) which will close down or limit (as determined by the Contracting Officer) normal activities in the building, construction area, or other affected areas, shall be performed by the Contractor at a time other than regular work periods of the organization occupying the facility. Requests for utility outages shall be submitted in writing to the Contracting Officer for approval at least 4 (four) weeks in advance. Requests must show date the outage is required, time period for the outage, and specific utility system involved. Shut down of existing utility systems will be accomplished by Government personnel IF and ONLY IF Contractor personnel are available at the time. Once a utility outage is arranged and work starts, the work must go on until the affected utility is restored and normal activities can resume. Contractor may only request to shutdown utilities in 1 (one) building at a time. If needing outages for multiple buildings, 1 (one) building must be completed before moving on to the next building.

28. Noise Control

The Contractor shall comply with all applicable state and local laws, ordinances, and regulations relative to noise control. The Government may require that operations which generate excessive noise be scheduled at other than standard work hours.

29. Construction Site Maintenance

29.1. When necessary, the Contractor can store all supplies and equipment for each Task Order on the project site. Storage area will be determined by the Contracting Officer and the Civil Engineering PM. Site shall be maintained in a neat and orderly manner. Fencing and visual screening will be required for outside construction sites to maintain a safe and neat appearance. Contractor shall not leave equipment or materials on site unless prior approval has been obtained from the Contracting Officer.

29.2. Cover equipment that is to remain in place within the area of contract operations and protect it against damage or loss. Store equipment that is removed in performance of work where directed or reuse in work as required by drawings and specifications. Equipment temporarily removed shall be protected, cleaned and replaced equal to or better than its condition prior to starting work. Security for equipment or material that is to be reused and is removed for temporary storage shall be the sole responsibility of the Contractor.

29.3. Each project site must be cleaned up at the end of each day. All debris (whether blown in or Contractor generated) on the job site shall be picked up and disposed of properly. All materials shall be neatly stacked and secured to prevent wind gusts from blowing materials around base. If the Contracting Officer or his authorized representative deems the project site is unsafe or unsightly the Contractor may be instructed to halt construction and clean-up the site.

29.4. Unless otherwise approved by the Contracting Officer, all Contractor generated waste shall be hauled from the construction site daily, to a disposal area to be selected by the Contractor located outside the physical boundaries of the installation. The Construction site shall be kept neat, orderly, and safe for workmen at all times.

29.5. The Contractor shall store all trash in appropriate containers on the job site. If a dumpster is to be used the location of the dumpster shall be as directed by the SABER Project Manager. The Contractor's dumpster shall be removed prior to final inspection. The Contractor shall repair any damage the dumpster causes to paving or lawns.

29.6. If the Contractor uses trucks to remove refuse from the job site the refuse must be covered and secure prior to leaving the job site. If any materials are observed falling off the trucks, the truck shall be stopped and reloaded to prevent damage to any other vehicles caused directly/indirectly by falling debris. The Contractor shall bear the monetary responsibility to repair all damage associated with falling debris.

29.7. The base refuse contract supplies dumpsters for Government produced refuse only. The

Contractor shall not dump refuse from any SABER project in the Government dumpsters. If the Contracting Officer discovers SABER refuse in Government dumpsters, he may instruct the Contractor to immediately remove the refuse or have Government resources remove it at the Contractor's expense.

29.8. All mud, dirt, debris, foreign objects, or spills of any kind from the Contractor's operations (including subcontractors and suppliers) on streets and parking lots, used as access to the work or staging areas, shall be cleaned off the same day. Taxiways, runways, parking aprons and hard surfaces, used as access to the work or staging areas, shall be kept clean at all times.

29.9. Trees, Shrubs, Grass and Irrigation Systems: The Contractor shall take appropriate measures to prevent injury to plants and subsurface irrigation systems on the project site unless designated to be removed. The Contractor shall not remove or prune any plants without approval from the Contracting Officer or his designated representative. Plants and/or trees that are damaged during construction shall be replaced at no expense to the Government with a 1-year warranty. Damaged shrubs or hedges shall be replaced with plants of equal size, type, and value. Any subsurface irrigation system damaged by the Contractor shall be repaired by the Contractor.

30. Contractor Parking

Contractor vehicles and equipment will ONLY be parked in a designated area. **The Contractor will not be permitted to park or run vehicles on grass areas.** Only equipment required in direct performance of the work will be permitted to enter grass areas. Any damage done to lawns or shrubs will be repaired or replaced by the Contractor at no additional cost to the Government. At certain facilities/locations on Aviano AB, the Contractor may be required to load or off-load material and equipment and park elsewhere.

31. Environmental Laws and Regulations

31.1. Contractor shall comply, and assure that all sub-contractors comply, with all applicable Italian and local laws, regulations, ordinances, policies and standards related to environmental matters.

31.2. The use of materials which have been identified by Governmental agencies as being hazardous or creating potentially hazardous conditions will not be allowed on any project. Specifically, products containing lead, asbestos, polychlorinated biphenyl (PCB), and Ozone depleting chemicals are prohibited. The Contractor shall assume a strict and cautious position in responding to reports of other materials which may be identified as hazardous during construction period.

31.3. If any material originally specified or approved for use in the work should become listed as suspected or verified as being hazardous, the Contractor shall immediately notify the Contracting Officer and initiate efforts to postpone the installation or use of the material until the matter can be investigated.

31.4. Close out documents require affidavits from the Contractor as well as each subcontractor attesting to the fact that no product as prohibited for use in public facilities have been incorporated into the work shall be provided.

32. Environmental Protection

32.1. In performing work under this contract, the Contractor shall comply with all applicable Italian, Local and Air Force environmental regulations and their supplements. These regulations take precedence if they conflict with the Statement of Work.

32.2. The Contractor shall identify, characterize, store and dispose of any hazardous waste generated during work in strict accordance with D'Lgs 152/06 *Norme in materia ambientale. (GU Serie Generale n.88 del 14-04-2006 - Suppl. Ordinario n. 96)*/Environmental Regulations and all subsequent revisions.

32.3. Solid, Liquid, and Gaseous Contaminants: The Contractor shall be responsible for the proper disposal of all solid, liquid, and gaseous contaminants including asbestos in accordance with all applicable Italian, and Local codes and regulations, as described elsewhere herein.

32.4. Covered Chutes: All chutes for refuse, and the like, shall be covered or of such a design to fully confine the material to prevent dust dissemination.

32.5. Management of Liquid Wastes: The Contractor shall not dispose of any waste or residual material on the ground or in any storm sewer or drainage system. This includes but is not limited to paints, coatings, solvents, petroleum products, etc. Discharge of any material or diluted material into sanitary or industrial sewer systems shall be coordinated with the Staff Civil Engineer Environmental Coordinator through the Contracting Officer and shall be approved by the 31st Civil Engineer Squadron/Installation Management Environmental Element (31 CES/CEIE). Waste material for disposal shall be disposed of in accordance with Italian and Local waste regulations and with local base policies. If in doubt, consult with the Staff Engineering Environmental Coordinator, Aviano AB, through the Contracting Officer.

32.6. Hazardous Waste Disposal:

32.7. All contracts requiring Contractor personnel to perform activities on the installation that have the potential to significantly impact the environment shall comply with the following:

Hazardous materials: The Contractor shall identify all hazardous materials required for completion of the project.

Safety Data Sheets: The Contractor shall furnish English language versions of the Safety Data Sheets (SDS) of hazardous materials, chemical, toxic, and noxious, that will be used in the construction work, to 31 CES/CEIE for approval and coordination through the 31st FW Ground Safety Office (31 FW/ SEG) and the 31st Bioenvironmental Engineering Flight (31 SGPB).The USG will provide sample of the material safety data sheets (MSDS)

form to the Contractor.

Hazardous Waste Management Plan: The Contractor shall provide a hazardous waste management plan as specified in any applicable TORFP.

Chemicals Materials: The Contractor shall ensure that hazardous materials utilized during construction do not contain any chemicals listed in the Environmental Protection Agency's EPA's) 17 toxins included in their 33/50 program. A list of the EPA 17 toxins can be obtained from the 31st CES/CEIE office.

Liquid, flammable, or toxic substances: Any liquid, flammable, or any other toxic substances that are required for the execution of the works, shall be kept in properly labeled, special containers. Relative data (quantity, characteristics, and location) shall be transmitted to 31st CES/CEF or 31st CES/CEIE through the Director of Works.

Asbestos Containing Materials: Contractor shall notify immediately the Contracting Officer if during demolition works asbestos containing materials will be encountered to coordinate its removal and disposal in the appropriate manner in compliance L'Dgs 152/06 to include all subsequent revisions and Law 257/1992 - *Norme relative alla cessazione dell'impiego dell'amianto. (GU Serie Generale n.87 del 13-04-1992 - Suppl. Ordinario n. 64)*/Regulations relating to the cessation of the use of asbestos.

32.7.1. Hazardous Chemical and Liquid Petroleum Products Spill Prevention. The Contractor shall handle and store hazardous liquid materials in approved areas/buildings and shall comply with the spill prevention and response requirements of Aviano AB. Copies of the Spill Prevention, Containment and Countermeasures Plan (OPLAN 19-8) will be provided to the Contractor by the Contracting Officer upon request.

32.7.2. All containers will be labeled, and the Contractor will provide the Environmental Coordinator, the Fire Department, and Readiness Flight with a listing of all Extremely Hazardous Substances, approximate volumes of petroleum-based substances (i.e., lubricants, fuels, etc.) and hazardous materials. This information will be updated any time different materials are brought on base.

32.7.3. Organic Solvents: The Contractor shall limit emissions of organic solvents into the atmosphere. This rule applies to use, clean-up, and disposal of organic, photo chemically reactive and non-photo chemically reactive solvents and materials containing these solvents.

32.7.4. Architectural Coatings: The Contractor shall limit the quantity of volatile organic compounds in architectural coatings. This applies to any coatings applied to stationary structures and their appurtenances, mobile homes, pavements and curbs.

32.7.5. Hazardous material encountered by the Contractor during work: The contractor shall notify the Contracting Officer upon encountering any material thought to be hazardous that was not generated by the Contractor during the work. The Government shall be responsible for characterization, transportation, storage and

disposal of the material if it is determined to be hazardous.

32.8. Burning: burning of any type of materials will not be permitted to accomplish the work.

32.9. Electrical equipment containing PCB's: It is imperative that electrical equipment containing PCBs removed from service are properly disposed of.

32.9.1. All items indicated on the drawings or in the specifications to contain PCBs shall be delivered to a storage area on base as directed by the Environmental Coordinator through the Contracting Officer. The Contractor shall have all electrical equipment cooling liquid tested by a certified laboratory to determine if PCB is present if labels or catalog data does not specify its composition. Transformers shall be drained, and the oil properly contained. The system shall be flushed to the required level. Drums shall be properly cleaned, sealed and labeled. An original of the certified report to the Environmental Coordinator shall be included.

32.9.2. All oil-cooled transformers shall be delivered to the designated storage area as per the above.

32.9.3. New electrical equipment shall not contain PCBs, shall be certified to this effect, and shall be stamped or labeled "NO PCB."

32.10. Materials Containing Lead:

32.10.1. The Contractor or subcontractor performing lead paint removal must be licensed/certified, show proof of acceptable local approved dump site and must have access to qualified crews for work with lead paint removal. Contractor must perform in strict compliance with all applicable regulations. The Contractor must provide three (3) sets, copies of documentation and invoices for removal and disposal of lead base paint to 31st CES, prior to final project inspection.

32.10.2. The Contractor shall not use paints or coatings containing lead in excess of 0.06 percent by weight of total non-volatile content. Paints or coatings within reach of children in housing, recreation, and public areas shall have zero lead content.

32.11. Asbestos Containing Materials:

32.11.1. The Contractor shall provide the following:

Removal of potential asbestos containing material (PACM) and/or asbestos containing material (ACM). Contractor shall abate all ACM and dispose of it in accordance with Italian laws and regulations. Prior to the start of any demolition, the Contractor shall provide certificate of abatement and disposal.
PACM shall be treated in an equal manner as ACM, unless tested and verified by the Contractor to be free of ACM. these test results shall be submitted to the Government prior to the start of any demolition.

32.11.2. With respect to asbestos removal projects:

32.11.2.1. The Contracting Officer, in coordination with Civil Engineering and the Legal Office, reserves the right to pre-qualify any subcontractors.

32.11.2.2. The Contracting Officer, in coordination with Civil Engineering and the Legal Office, reserves the right to require Contractor insurance and review the policy before any work is started.

32.11.2.3. The Contracting Officer, in coordination with Civil Engineering and the Legal Office, reserves the right to require a work plan and review the plan before any asbestos abatement or removal work is started.

32.11.3. The Contractor and/or sub-contractor are prohibited from using any asbestos containing materials (ACM) on any assigned project. In the event the Contractor encounters previously unidentified ACM or suspected ACM during work, the Contractor shall take all necessary precautions to ensure the ACM is not disrupted. The Contractor shall immediately notify the SABER Project Manager and Contracting Officer and await further guidance. The Government will take steps, as necessary, to ascertain the material's composition and determine any necessary remedial action.

33. Security Requirements

The Contractor shall comply with security regulations imposed by the Installation Commander and/or the agency occupying the space where the Work is to be performed, including adhering to or obtaining any security clearances. Refer to form USAFE IMT-79 for procedures and requirements for passes request.

33.1. Upon termination of any employee the Contractor shall notify the Contracting Officer of the action by next duty day and shall return all Government identification for that person to the Contracting Officer by no later than one additional duty day.

33.2. Contractor shall obtain vehicle passes from the Pass and ID Section of Security Police via the COR prior to being allowed base access. The Contractor is required to have a valid driver’s license and insurance to operate a vehicle.

33.3. Security: The Contractor shall notify the Government thirty (30) calendar days before on base performance of the contract. The notification shall include all information consistent with USAFE IMT-79 Form along with supporting documentation. See IMT79-HOW-TO PowerPoint.

33.4. The Contractor shall maintain a current listing of employees. The list includes employees name, Driver’s license or ID number and level of security clearance. The list is provided to the contracting officer and servicing security police organization at the contract start date. Updated listings are provided upon change of employees.

33.5. Physical Security: The Contractor shall be responsible for safeguarding all Government property including controlled forms provided for contractor use. At the close of each work period, Government facilities, equipment, and materials shall be secured.

33.6. All Contractors, including all subcontractors, shall be properly screened/vetted and cleared IAW Directive-Type Memorandum (DTM) 09-012. The Contractor must coordinate all base work requests through Security Forces (i.e. Resource Protection, Physical Security and/or Anti- Terrorism Offices).

33.7. Key Control. The Contractor shall establish and implement key control procedures in the Quality Control Plan to ensure keys issued to the Contractor by the Government are properly safeguarded and not used by unauthorized personnel. The Contractor shall not duplicate keys issued by the Government.

When working in a building or area of a building the contractor is responsible for securing the areas or entire building where work is performed. The Government will not provide keys or unlock doors for access to the Contractor. The Contractor may request to install a Contractor core for doors accessing the areas of work. The Government will be provided with two keys for accessing the area if needed after work hours. After TO completion, the Contractor will provide the Government new cores meeting required specifications for the doors where Contractor cores have been installed.

33.8. Lost keys will be immediately reported to the CO. The Government will replace lost keys or perform rekeying. The total cost of lost keys, rekeying or lock replacement shall be deducted from the final payment due the Contractor.

33.9. The Contractor shall ensure Contractor employees do not allow Government issued keys to be used by personnel other than current Contractor employees authorized to use the keys. Contractor employees do not use keys to open work areas for personnel other than contract employees engaged in performance of duties, unless authorized by the Functional Area Chief.

33.10. Traffic Laws. The Contractor and their employees shall comply with Aviano Air Base and Italian traffic regulations.

34. Work In Special Areas

34.1. Government will provide all escorts required for access to secure areas while working on construction projects at Aviano Air Base.

34.2. The following security regulations will apply to construction projects within the Aviano Air Base complex:

AFR 207-1, Chapter 11, Restricted Area Programs
AFR 125-37, Chapter 6, Air Force Resource Protection Programs

34.3. All Contractor personnel shall be escorted at all times in a controlled/restricted area by an escort furnished by the Government. Work requiring escorts will be scheduled fourteen (14) calendar days prior to starting work unless this requirement is waived by the Contracting Officer. Escorts will be provided by the Government only during normal working hours.

34.4. Projects in a secured area may require a local agency check of the Contractor, their employees, and all sub-contractors by the Base Security Police prior to commencement of on-site work. The Contractor should allow approximately thirty (30) calendar days to accomplish this check.

35. Unauthorized Reconnaissance

The Contractor shall inform all personnel working under his/her jurisdiction that access to areas outside of the immediate work area (excluding cafeterias and restrooms near the work site, direct haul and access routes, Contracting and Civil Engineering offices, and points of supply and storage) is prohibited. Circulation of said personnel will be limited to official business only. Persons engaged in unauthorized reconnaissance of other Contractor's or Government activity will be referred to the Contracting Officer for disposition. Infractions involving possible compromise of national security will be turned over to the Air Force Office Special Investigation (AFOSI) for disposition.

36. Airfield Requirements

36.1. The Contractor shall submit a projected work schedule at least fourteen (14) business days in advance for any work that involves the control tower or is on or near the flight line, taxiway, runway or apron areas. The projected work schedule shall be thoroughly coordinated with Base Operations and approved by the Contracting Officer prior to starting work.

36.2. The Contractor shall coordinate through the COR for restrictions involving access to the flight line, taxiway, and runway areas. The Contractor shall comply with Air Force AFI 13-213, and the instruction of the Airfield Manager at all times.

36.3. Two-way radio contact on very high frequency (VHF) Radios is required for all vehicles, equipment and personnel working on the flight line, taxiways, and runways. Contractor shall be responsible for providing all radios, and the Contractor shall be responsible for coordination frequencies with Base Operations.

36.4. The Contractor shall strictly comply with the Contracting Officer's instructions and attend the training at Bldg.1023 and receive the driving license for restricted areas and airfield.

36.5. Aircraft and emergency fire department vehicles always have the right of way. Construction personnel, vehicles and equipment must yield to taxiing aircraft at all taxiway crossing points.

36.6. The Contractor must only use designated taxiway crossing points, unless otherwise directed.

36.7. Runways must be cleared of equipment and personnel and be operationally ready within five (5) minutes in the case of In-Flight Emergencies (IFEs), unless the runway is physically unable to accept aircraft. No Contractor vehicles, equipment, or personnel shall be on or crossing any active runway, except during construction period closures as outlined

above or when clearance is requested from and granted by the control tower.

36.8. The Contractor will be issued a handheld radio by the Government in order to be able to communicate with the airfield control tower. The on-site project manager shall be expected to continuously monitor the airfield frequency.

36.9. Unless authorized by the Contracting Officer, no contractor vehicles, equipment, or personnel shall cross the painted red security lines located at various locations on the Airfield. Security Police are authorized to use deadly force in such breaches of security.

36.10. Other airfield contracts may be underway at the same time as this contract, and therefore the contractors may have to share haul routes, and work in the proximity of one another. The Contractor shall fully comply with Contract FAR Clause 52.236-8, Other Contracts.

36.11. The Contractor may be required to cease project operations on the airfield during In Flight Emergencies (IFEs) or as directed by the Installation Commander. These delays typically are for one to two hours at a time. Every effort will be made by Base Operations, Civil Engineering, and the Contracting Office to minimize all potential delays and to inform the Contractor as early as possible of such delays so that critical work can be effectively scheduled around such events. For bidding purposes, assume work stoppages will occur minimally.

36.12. Assume the runway on which the Contractor is scheduled to work will be closed to normal aircraft traffic or shall have one end closed by using a displaced threshold. However, the Contractor shall clear the runway as directed by the tower for IFE's or for other circumstances. Assume one occurrence per day on average. Flying activity is minimal on weekends. The Contractor will have to clear the runway as directed by the tower for inbound and outbound flights.

37. Temporary Airfield Construction Waiver

In the event a TO requires a Temporary Airfield Construction Waiver (TACW) and/or terminal instrument Procedures (TERP), the USG will coordinate with the Contractor to submit to the Base Community Planner a minimum of sixty (60) calendar days prior to construction or any other survey work needed. The following information is required and shall be submitted to the Base Community Planner to process the waiver:

1. Description of the project
2. Site drawing of construction.
3. Start and completion date for construction.
4. What equipment the Contractor will be using on site.
5. Highest structure (facility or equipment) on site. The exact latitude - longitude and ground elevation needs to be provided to determine possible airspace and/or TERPS violations.
6. Days and daily hours of construction.
7. Number of people working on site.
8. Name of person or unit who will be monitoring the Contractor.
9. Using organization affected by project.

The 60 (sixty) day minimum requirement starts when all the required items listed above are submitted to the Base Community Planner. Construction cannot begin without approval of the temporary airfield construction waiver.

38. Flight Line Permits

38.1. The Contractor shall provide all the required information to fill and obtain TACW and all other permits required to work on airfield area.

38.2. Temporary Construction Cranes

All proposed use of cranes during construction shall be coordinated with Airfield Management and the Base Community Planner, in addition to the required submittal of the FAA Form 7460-1.

38.3. Notices to Airmen (NOTAM)

Only Airfield Management can close, open, or restrict the use of any part of an airfield facility. Any conditions that would prevent, restrict, or present a hazard to arriving or departing aircraft requires public notification. Public notification is accomplished by the Notice to Airmen (NOTAM) system. NOTAMS are submitted to the FAA by Airfield Management. It is the responsibility of the Contractor to coordinate with the Contracting Officer for the issuance of NOTAMs during construction. The Contractor shall provide the necessary information at least 72 hours before occurrence of the event that requires the NOTAM.

39. Flight Line Access

39.1. No personal vehicles will be allowed inside the flight line fence. Personnel walk-in access is by AF identification card.

39.2. All personal vehicles shall be parked in authorized parking lots outside the FLIGHT LINE FENCE.

39.3. CONTRACTOR VEHICLES shall be allowed access to flight line if required in the performance of the work as follows:

39.3.1. Permission must be requested by the Contractor, thru the Contracting Officer, before operating any Contractor vehicle on the flight line.

39.3.2. Each vehicle shall have a company sign (minimum size 6 inches by 18 inches) on both front doors and all personnel shall have AF identification cards.

39.3.3. Supplier vehicles delivering materials to site shall be escorted by company vehicle.

40. Safety Assurance

40.1. Pre-construction Safety Meeting: Representatives of the Contractor shall meet with the Government prior to the start of repair alteration or construction activities for the purpose of reviewing the Contractor's safety and health programs and discussing implementation of all safety and health provisions pertinent to the work to be performed under the contract. The Contractor shall be prepared to discuss, in detail, the measures he/she intends to take in order to control any unsafe or unhealthy conditions associated with the work to be performed under the contract. This meeting may be held in conjunction with the pre-construction conference, if so directed by the Contracting Officer. The conduct of this meeting is not contingent upon a general pre-construction meeting. The level of detail for the safety meeting is dependent upon the nature of the work and the potential inherent hazards. The Contractor's Project Superintendent, Project Manager and Safety Representative(s) shall attend this meeting.

40.2. Compliance With Regulations: All work, including the handling of hazardous materials or the disturbance or dismantling of structures containing hazardous materials shall comply with the applicable Italian and local norms included below. Disposal shall follow the hazardous material *Catalogo Europero dei Rifiuti (CER)*/European Catalog of Garbage classification. Work involving the disturbance or dismantling of asbestos or asbestos containing materials; the demolition of structures containing asbestos; and or the disposal and removal of asbestos, shall comply with the requirements of:

40.2.1. Law n.257 dated 27.03.1992 - *Norme relative alla cessazione dell'impiego dell'amianto*/Regulations relating to the cessation of the use of asbestos (),

40.2.2.D.M. 6 September 1994 - *Normative e metodologie tecniche di applicazione dell'art. 6, comma 3, e dell'art. 12, comma 2, della legge 27 marzo 1992, n. 257, relativa alla cessazione dell'impiego dell'amianto*/Regulations and technical methodologies for the application of art. 6, paragraph 3, and art. 12, paragraph 2, of law 27 March 1992, n. 257, relating to the cessation of the use of asbestos (),

40.2.3. D.M. 20 August 1999 - *[Ampliamento delle normative e delle metodologie tecniche per gli interventi di bonifica, ivi compresi quelli per rendere innocuo l'amianto, previsti dall'art. 5, comma 1, lettera f) , della legge 27 marzo 1992, n. 257, recante norme relative alla cessazione dell'impiego dell'amianto*]/Extension of the regulations and technical methodologies for remediation interventions, including those to render asbestos harmless, provided for by art. 5, paragraph 1, letter f), of Law 27 March 1992, n. 257, containing provisions relating to the cessation of the use of asbestos.

The Contractor or any of his subcontractors responsible for handling hazardous and toxic materials shall have the necessary certification before doing so and, when required by T.O, shall provide the certificate of abatement and disposal.

40.3. Contractor Responsibility: The Contractor shall assume full responsibility and liability for compliance with the applicable regulations pertaining to the health and safety of personnel

during the execution of work, and shall hold the Government harmless, for any action on his part or that of his employees or subcontractors, which results in illness, injury, or death.

40.4. Inspections, Tests, and Reports: The inspections, tests and reports made by the Contractor, subcontractors, specially trained technicians, equipment manufacturers, and others as required by a Task Order, shall be furnished in accordance with the terms of the Task Order. A report shall consist of the results of lab tests.

40.5. Materials and Equipment: Special facilities, devices, equipment, clothing, and similar items used by the Contractor in the execution of work shall comply with the applicable regulations.

40.6. Hazardous Materials: The Contractor shall bring to the attention of the Contracting Officer any previously unknown material suspected of being hazardous which he encounters during execution of the work. A determination will be made by the Contracting Officer as to whether the Contractor shall perform tests to determine if the material is hazardous. If the Contracting Officer directs the Contractor to perform tests, and/or if the material is found hazardous and additional protective measures are needed, a contract change may be required, subject to equitable adjustment under the terms of the contract.

40.7. Electrical main safety procedures: Apply all lockout/tagout (LO/TO) procedures to safely insulate power sources to raise the safety limit during routine and extraordinary maintenance operations and all electrical main standards for electrical works as per CEI 11-27, CEI EN 60204-1, OSHA 29 CFR 1910.147, ANSI/ASSP Z244.1 and Direttive Macchine 2006/42/CE.

41. Safety and Health

41.1. General: Contractor's activities shall comply with the following: 29 CFR §1926 – Safety and Health Regulations for Construction, US Corps of Engineers (USACE) Manual EM385-1-1 - Safety and Health Requirements Manual, Effective 15 March 2024, AFMAN 91-203 Air Force Occupational Safety, Fire, and Health Standards, and D'lgs. 81/08 including subsequent amendments: in case of any differences, the more stringent applies.

An appointed professional shall develop a site-specific safety plan (*PSC - Piano di Sicurezza e Coordinamento*), in accordance with D'lgs. 81/08). The PSC is considered equivalent to the Accident Prevention Plan required by Manual USACE EM385-1-1.

The Contractor shall consider any interference regarding hazards in advance through a preliminary assessment plan: the DUVRI – Single Document for the Interference Risk Assessment (Documento Unico per la Valutazione Rischi da Interferenze) shall be coordinated with 31st Fighter Wing Command Prevention Protection (31 FW/CCPP) Base employees safety representative (Phone 0434 30 5709), in accordance with D'lgs. 81/08.

The Contractor shall develop a site-specific plan for operational safety (POS - Piano Operativo di Sicurezza) in accordance with Legislative Decree 81/08, prior to starting planned work activities. Employees training certificates shall be included in the POS

documents.

Contractor's representatives shall receive a safety briefing during the pre-performance conference from Base 31 FW/SEG Occupational Safety Office. Electronic copy of POS will be provided to 31 FS/SEG (Phone 0434 30 4817).

Contractor's activities within confined spaces are covered by 29 CFR §1926 Subpart AA – Confined Spaces in Construction and 29 CFR §1910.146 – Permit-required confined spaces. Mentioned regulations shall be coordinated with Italian Presidential Decree (DPR) 177, 14 Sep 2011 – *Regolamento recante norme per la qualificazione delle imprese e dei lavoratori autonomi operanti in ambienti sospetti di inquinamento o confinanti*/Regulation containing rules for the qualification of companies and self-employed workers operating in environments suspected of pollution or bordering. Mandatory prescriptions on confined space shall be taken into consideration at the design stage for new contracts as well as for maintenance and repair contracts.

42. Explosive Operated Tools

Explosive operated hand tools shall not be used without prior approval of the Contracting Officer. The Contractor shall comply with OSHA Standard 1910.215(c) when utilizing explosive operated hand tools. Storage of explosive cartridges on the installation will be in metal containers and limited to one day's supply. The contractor will provide adequate controls to prevent loss/theft of cartridges used and stored on the installation.

43. Completion of Contract

At the conclusion of this contract, the Contractor shall be required to vacate any and all areas provided to him including office area and individual work sites. If provided, the Contractor shall return the office area to its original condition and shall do so within (14) calendar days of being notified by the Contracting Officer, or the conclusion of this contract, whichever comes first.

44. DURC (Documento Unico di Regolartità Contributiva)

The Contractor shall submit an updated DURC at the beginning of each TO, which certifies that the Company is in compliance with the rules on Social Security Regulations on its own and to its employees

45. Contractors As-Built Drawings

45.1. During the progress of the work, the Contractor shall maintain at the job site a marked up set of record drawings which clearly shows all changes and corrections from the layouts shown on the project drawings. The marked-up set of record drawings will be made available for viewing when requested by the Contracting Officer and/or the COR. The

Contractor shall enter such changes and corrections on contract or record drawings promptly. The record drawings shall also indicate, in addition to all changes and corrections, the actual location of all subsurface utility lines encountered. In order that the location of these lines and appurtenances may be determined the record drawings shall show, by offset dimensions to two permanently fixed surface features, the end of each run including each change in direction. Valves, splice boxes, and similar appurtenances shall be located by dimensioning along the utility run from a reference point. The depth below the surface of each run shall also be recorded. If the Contractor fails to maintain the record drawings as required herein, the Contracting Officer will consider that satisfactory progress has not been achieved for the period in question. The Contracting Officer can withhold a 10% retainer from any progress payments due for the period in question because of unsatisfactory progress.

45.2. At the time final inspection is requested, the Contractor shall submit to the Contracting Officer one electronic copy of "as-built" prints and one set of drawing files showing the aforementioned data. **A final inspection will not be scheduled unless "as-built" drawings and all final documentation are submitted with the request for final inspection and the QC report.** Hard copies of the entire set of final documents (all signed &stamped in original) shall be delivered to cons contextually with the delivery of the final document's electronic copy

45.3. All drawings submitted by the Contractor shall be created from Computer Aided Design and Drafting (CADD) software in accordance with requirements stated in Previous Section, "Computer Requirements". The Contractor shall furnish one drawing file for each drawing sheet submitted (multiple drawing sheets per drawing file will not be accepted). All drawing files must be capable of being saved and opened using the "DWG" extension.

45.4. The Contractor shall submit one set of media (i.e. CD-ROM) containing the computer drawing files for each project. In general, the Contractor shall provide all data necessary to display, edit and plot the files produced for each project to include any X- References drawings. The external label on the media shall indicate the save set name, the date of creation, the disk volume number, a description of the disk contents (project name and project number), and the name and phone number of firm who created the disk.

45.5. All CADD requirements shall meet the standards currently in use by 31st CES (Engineering), including but not limited to file naming, plotting and graphics. A point of contact (POC) at 31st CES will be designated to answer the Contractor's questions regarding current CADD standards.

46. Government Furnished Drawings

46.1. The Government agrees to provide access to all known and relevant drawings the Contractor may need to develop a Task Order cost proposal. The Contractor shall contact the SABER Project Manager to schedule an appointment to review the Government record drawings at 31 CES/CENM office, building 407. Upon request the Contractor will be provided one (1) copy of any record drawing that is relevant to the work required.

46.2. The existing dimensions and locations shown on the applicable drawings are for approximation purposes only. Failure to verify the dimensions, conditions, and locations will be at the Contractor's risk and shall not relieve the Contractor from accomplishing the work required by the contract at the price awarded by the Government. It is the Contractor's responsibility to verify all as-built conditions prior to submission of a cost proposal and/or issuance of each Task Order. Failure to do so shall not relieve the Contractor of responsibility for his design and shall not constitute a basis for reimbursement for cost increases resulting from inaccuracies of Government provided drawings.

47. Hours of Work

47.1. The Contractor may request to work on a weekend, after hours, or on a holiday. All such requests must be submitted in writing to the Contracting Officer with a description of the type of work to be accomplished on that date. Any request to work a weekend shall be submitted by close of business one week prior to the intended weekend work. Requests to work other than weekends shall be submitted a minimum of 72 hours prior to the requested date. The Government reserves the right to approve or deny the request. Contractor's request to work outside standard work hours shall not justify non-standard rates.

47.2. Non-standard hours: The Contractor may be asked by the Government to work outside of typical duty hours to accommodate the mission. Work during this time will apply the non-standard hour coefficient. This coefficient may also be applied to work in areas that require higher security measures for Contractor to access. Any questions asked during the site visit or identified after the site visit should be submitted as a Request for Information (RFI) to the Contracting Officer and designated Contract Specialist within seven (7) calendar days after the site visit, as per paragraphs 13.1.1

48. Contractor On-Base Facility

48.1. **There is no requirement for the Contractor to establish and maintain a management office on-base in order to receive work requests and provide other management services related to accomplishing individual job orders**, but if the Contractor would like to establish and maintain an on-base management office and storage area the following applies.

48.2. A parcel of land approximately 30 x 30m may be provided to the Contractor as a storage area. Security of the storage area shall be the responsibility of the Contractor. The installation of a portable trailer to serve as covered storage shall be approved by the Contracting Officer in accordance with the Base Comprehensive Plan. All portable trailers must be secured from overturning in accordance with Base Safety Regulations. The Contractor shall be responsible for installing a 180cm high security chain link fence, with screening and gates at his assigned storage area. Fencing shall be new in appearance. An identification sign must be posted at the storage site which shows the Contractor's name, project name, daytime phone number, and phone number of person to contact in case of an emergency during after-hours and/or on weekends. The Contractor shall maintain the

storage site in an orderly, clean, and safe manner to include grass cutting inside the fenced area and five foot outside the fence line (which will be no higher than 10cm at any time and must be to the satisfaction of the Contracting Officer), fence and gate repair, and proper disposal of all trash and construction debris. If temporary utilities tie-ins are needed, they must be accomplished by the contractor at the Contractor's expense. The Contractor can tie-in to the existing Government utilities, such as electricity, water, sewage, etc. All utility tie-ins must be coordinated with the Contracting Officer and existing base utility drawings updated to show tie-ins.

48.3. Upon contract conclusion or termination, the Contractor shall bring the site (or facility provided) to the state at which it was initially provided by the Government, this includes removal of all temporary utility connections. Contractor is to return such facilities in same or better condition as when they were obtained. Normal wear and tear is recognized.

49. Material Submittals

49.1. Once an individual Task order is awarded, the Contractor shall submit all required material/shop drawing submittals to the Contracting Officer within 10 calendar days or as agreed to by the Contracting Officer for approval. No materials shall be ordered, purchased or installed prior to approval.

49.2. All material submittals and shop drawings shall be attached to an AF Form 3000 with the Project Title, Project Number, and Task orders Number clearly indicated. AF Form 3000 shall be submitted to Contracting Officer via email for approval. Three copies of each submittal shall be submitted to the Contracting Officer for approval. One copy will be returned to the Contractor. The Contractor may submit a catalog of standard material data sheets for selected items which will be used repetitively for SABER Task Orders for approval. Once approved, the catalog number for an item can be referenced on the AF Form 3000 without attaching copies of the data sheets.

49.3. Material submittals and shop drawings shall be checked and signed by the Contractor's Quality Control Manager prior to submission to the Contracting Officer.

49.4. Submittals shall be legible and shall include all technical data needed to verify that the item meets requirements of the UPB line-item description, specifications, and applicable codes.

50. Government Liability

The Government will not be liable for any loss or damage to the Contractor's property, including stock or for expense incidental to such loss or damage.

51. Toilet Facilities

Contractor's personnel will be permitted to use existing toilet facilities if available on the premises subject to approval of the Contracting Officer or his designated representative. If Toilet Facilities are not available at the work site, the Contractor shall provide his/her own chemical

sanitary toilets, at no additional cost to the Government. No other kinds of toilets are authorized. Chemical toilets must be serviced regularly and will be subjected to Government inspection by the Base Medical Officer. All sanitary deficiencies shall be corrected within 24 hours of the inspection.

52. Contractors Use of Electromagnetic Emission Devices

Electromagnetic emission devices include radio/RADAR transmitters, navigational aids, instrumentation, signaling, intrusion detection and identification devices, mobile and fixed business radio communication equipment, and MARS, CBs and amateur radio stations. The Contractor shall comply with the AFMTC Regulation Sup 1 to Air Force Instruction 33-118. This is available for inspection at the Communications Squadron

52.1. Antenna systems and safety: the Contractor shall contact 31 CES 72 hours prior to working in the vicinity of an antennas for radiation prevention and to avoid interferences with base operations. The Contractor shall not remove or disconnect cables, antenna systems without prior coordination with 31 CES.

53. Availability of Utilities and Services

All reasonable required amounts of water, gas, electricity, etc., essential to contract performance, will be made available at no cost to the Contractor from existing systems, outlets, and supplies. All temporary connections, outlets, and distribution lines, as may be required, shall be installed by the Contractor at his own expense.

54. Severe Weather Warning

Upon receipt by the Contracting Officer of a severe weather warning with anticipated winds of 35 knots or higher, the following sequence of actions will be carried out:

54.1. The Contracting Officer or his representative will notify the Contractor of the severe weather warning.

54.2. The Contracting Officer or his representative will instruct the Contractor to secure all his materials, equipment, and trailers.

54.3. The Contractor shall take immediate action to tie down, remove, protect, or secure his materials and equipment to the satisfaction of the SABER Project Manager in order to reasonably assure that Government Property will not be damaged. If the Contractor fails or refuses to secure materials and equipment to the satisfaction of the SABER Project Manager, the work will be accomplished by Air Force personnel and the cost thereof charged to the Contractor.

55. Transportation of Construction Equipment

The Contractor shall not drive any construction equipment with metal wheels or tracks (i.e. roller, excavator etc.) on the streets of Aviano AB. All equipment shall be loaded on a trailer and hauled to the location.

56. Indoor Outdoor Barricades

Adequate barricades, warning signs and flares shall be furnished, installed, and maintained by the Contractor on each Task Order as required by the SOW and or the Contracting Officer. Outdoor barricades, warning signs and flares shall comply with the requirements set forth by Italian norms.

57. Removal and Replacement Responsibility

The Contractor shall be responsible for the replacement or repair of all existing finished surfaces, utilities, equipment, landscape and grounds, and structures or parts thereof that he/ she has damaged, removed, or cut into in order to perform work specified.

58. Utility Outages

All utility outages (gas, electricity, water, etc.) will be coordinated with the using agency and requested in writing no less than four (4) weeks prior to the required outage. All requests will be sent to the Contracting Officer specifying the type of utility to be shut down, the date and time the outage is required, and the estimated duration of the outage. All work shall be coordinated and arranged to ensure that the outage will be of minimum duration. If outage cannot be performed during standard hours based on the Government's mission, Contractor shall coordinate outage during off-duty hours at no additional cost. Contractor may only request to shut down utilities in 1 (one) building at a time, if work requires shutdown of multiple buildings, utility outage in 1 (one) building must be completed and all utilities restored before moving on to the next building. Contractor shall only request to shutdown utilities in 1 (one) building per day. This applies to every TO awarded under this contract, whether written in the SOW or not. The Government reserves the right to cancel or reschedule the Contractor's proposed outage if it deemed necessary, and if the Government provides such notification to the Contractor at least 24 hours in advance of the time for the outage to start, no additional compensation will be provided for cancelling or rescheduling. Once a utility outage is arranged and work begins, work must go on until the utilities are restored and the affected facility is operational. If emergency shutdown of a utility system is required the Contractor must notify the Base Fire Department, Contracting Officer, and 31st CES prior to shutdown of the utility system.

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ANNEXES

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59. Annex 1 – Typical Cost Estimate Schedule

Nr. Ord.	CODICE DEI	DESIGNAZIONE DEI LAVORI	Quantità	BARE COST		COEFFICIENTS						T.O. COST
				Unit	Total	C1	C2A	C2B	C2C	C2D	C3	
1	A25047a	Demolizione di pavimento di pietre naturali in lastre o quadrotti, gradini, soglie e simili, per uno spessore di 3 cm compreso il sottofondo dello spessore fino a 5 cm e l'avvicinamento a luogo di deposito provvisorio: senza recupero di materiale										
		M I S U R A Z I O N I:										
		Demolizione di pav. esterno esistente	137,00									
		SOMMANO mq	137,00	15,53	2.127,61	0,9	0,02		0,02	0,250	0,03	2.527,60
2	A25049	Demolizione di pavimento in piastrelle di ceramica, compreso il sottofondo dello spessore fino a 5 cm, posto in opera a mezzo di										
		M I S U R A Z I O N I:										
		Demolizione di pav. interno esistente	117,00									
		SOMMANO mq	117,00	9,32	1.090,44	0,9	0,02		0,02	0,250	0,03	1.295,44
3	A35062b	Acciaio in barre per armature di conglomerato cementizio prelavorato e pretagliato a misura, sagomato e posto in opera a regola d'arte, compreso ogni sfrido, legature, ecc; nonché tutti gli oneri relativi ai controlli di legge; del tipo B450C prodotto da azienda in possesso di attestato di qualificazione rilasciato dal Servizio Tecnico Centrale della Presidenza del Consiglio Superiore dei LL.PP., in barre: per strutture complesse (100 ÷ 150 kg di acciaio per mc di calcestruzzo)										
		M I S U R A Z I O N I:										
		INTERVENTO 3 - FONDAZIONI										
		Cordoli 30x50										
		Ø16 correnti	934,49									
		Ø8/20 staffe	429,46									
		Cordoli in breccia 30x50										
		Ø16 sup n°2	60,60									
		Ø16 inf n°2	60,60									
		SOMMANO kg	1.485,15	1,94	2.881,19	0,8	0,02		0,02	0,250	0,03	3.042,54
4	A95037a	Perforazioni di muratura di qualsiasi genere con trapano elettrico per inserimento di barre, tiranti metallici e simili, compreso ogni onere e magistero di approntamento del macchinario e consumi per fori di lunghezza fino a 1,5 m e Ø pari a 11 ÷ 20 mm: su muratura di tufo, mattoni e simili										
		M I S U R A Z I O N I:										
		1Ø16/40 inghisaggi su fondazioni esistenti	148,80									
		SOMMANO m	148,80	59,59	8.866,99	1,1	0,02		0,02	0,250	0,03	12.874,87
5	A15022b	Ponteggio a telaio con altezze anche oltre i 20 m prodotto da azienda in possesso di autorizzazione ministeriale ed eseguito con l'impiego di tubi di Ø 48 mm e spessore pari a 2,9 mm, in acciaio zincato o verniciato, compresi progetto e relazione tecnica (quando										
		M I S U R A Z I O N I:										
			1.949,80									
		SOMMANO mq	1.949,80	1,52	2.963,70	0,85	0,02		0,02	0,250	0,03	3.325,27
6	A15022c	Ponteggio a telaio con altezze anche oltre i 20 m prodotto da azienda in possesso di autorizzazione ministeriale ed eseguito con l'impiego di tubi di Ø 48 mm e spessore pari a 2,9 mm, in acciaio zincato o verniciato, compresi progetto e relazione tecnica (quando										
		M I S U R A Z I O N I:										
			974,90									
		SOMMANO mq	974,90	4,55	4.435,80	0,85	0,02		0,02	0,250	0,03	4.976,97
		TOTALE euro			**22.365,73**							**28.042,69**

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60. Annex 2 – DEI Price Books Work Schedule

a. Renovation, Maintenance and Sustain – Works Schedule
b. Electrical System – Works Schedule
c. Technological Systems – Works Schedule

RENOVATION, MAINTENANCE AND SUSTAIN - WORKS SCHEDULE

	C1	C2A	C2B	C2C	C2D	C3
A1 - PROVISIONAL WORKS						
A2 - EXCAVATIONS, DEMOLITIONS, REMOVALS AND TRANSPORT						
A3 - MORTARS, CEMENT CONGLOMERATES STEEL FOR REINFORCED CONCRETE						
A4 - ANTI-SEISMIC DEVICES						
A5 - SLABS						
A6 - MASONRY AND SUBFLOOR WORKS						
A7 - PLASTERS						
A8 - DIAGNOSTICS, STRUCTURAL MONITORING AND SURVEYS						
A9 - STATIC CONSOLIDATION WORKS						
B1 - THERMAL AND ACOUSTIC PROTECTION WORKS						
B2 - RENOVATION AND WATERPROOFING						
B3 - ROOFS, FLASHINGS, TRIMS, DOWNSPOUTS AND GUTTERS						
B4 - FLOORING, CLADDING AND STONE WORKS						
B5 - SUSPENDED CEILINGS AND PARTITION WALLS						
B6 - PAINTING WORKS						
B7 - GLASS BLOCKS WORKS						
B8 - CHIMNEYS AND EXHAUST PIPES 503						
C1 - METAL WORKS						
C2 - WOOD AND PVC WORKS						
C3 - TIMBER STRUCTURES						
C4 - GLASS WORKS						
C5 - SOLAR SHADING						
D1 - RESIDENTIAL ROADS AND OUTDOOR PAVEMENTS						
D2 - SEWERS, AQUEDUCTS AND DRAINS						
E1 - GARDENING WORKS						
E2 - SPORTS FACILITIES						

ELECTRICAL INSTALLATION - WORKS SCHEDULE

	C1	C2A	C2B	C2C	C2D	C3
01 - ELECTRICAL SYSTEMS IN RESIDENTIAL AND TERTIARY BUILDINGS						
02 - LOW VOLTAGE TRANSMISSION AND DISTRIBUTION SYSTEMS						
03 - ELECTRICAL EQUIPMENT FOR LOW VOLTAGE SYSTEMS						
04 - CIVIL AND INDUSTRIAL LIGHTING						
05 - PUBLIC LIGHTING						
06 - OUTDOOR AND GARDEN LIGHTING						
07 – EARTHING AND LIGHTNING PROTECTION SYSTI						
08 – EXPLOSION-PROOF SYSTEMS						
09 – SPECIAL SYSTEMS						
10 – PHOTOVOLTAIC AND WIND POWER PLANTS						
11 – TRANSFORMER CABINS						
12 – POWER FACTOR CORRECTION OF LV ELECTRICAL SYSTEMS						
13 – POWER STATIONS						
14 – FIRE DETECTION SYSTEMS						
15 – LIGHTING SYSTEMS AND EMERGENCY POWER SUP						
16 – SOUND DIFFUSION SYSTEMS						
17 – TIME AND ATTENDANCE SYSTEMS						
18 – ANTI-THEFT AND ANTI-INTRUSION SYSTEMS						
19 – MASONRY ASSISTANCE						
20 – REMOVALS						
21 – ELECTRIC MOBILITY						
22 – HOME AUTOMATION						
23 – OPTICAL FIBER						
24 – DEMATERIALIZATION						
25 – RADIOCOMMUNICATION SYSTEMS						

RENOVATION, MAINTENANCE AND SUSTAIN - WORKS SCHEDULE

	C 1	C2A	C2B	C2C	C2D	C3
01 - PLUMBING AND DOMESTIC GAS SYSTEMS						
02 - HEATING SYSTEMS						
03 - AIR CONDITIONING SYSTEMS						
04 – ADJUSTMENT; AUTOMATION AND PLANT CONTROL						
05 - FIRE-FIGHTING SYSTEMS						
06 - WATER LIFTING SYSTEMS						
07 - IRRIGATION SYSTEMS						
08 - RENEWABLE ENERGY PLANTS						
09 - SPECIAL AIR SYSTEMS						
10 - LIFTING SYSTEMS						
11 – MASONRY REMOVALS AND ASSISTS						

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61. Annex 3 – Norms and Rules

1. ENERGY CONSERVATION

- **LAW 10/91 dated 9 January 1991**
  Norms for the implementation of the national energy plan on national energy use, energy saving and development of renewable energy sources

- **PRESIDENT OF THE REPUBLIC DECREE 412/93**
  Regulation for design installation, use and maintenance of thermal systems to the aim of restraint energy consumption, in accomplishment of Law 10/91

- **DPR 551/99**
  Modification of DPR 412/93

- **LEGISLATIVE DECREE 192/2005, dated 19 August 2005**
  Implementation of Directive 2002/91 / EC on the energy performance of buildings

- **LEGISLATIVE DECREE 311/2006**
  Corrective and supplementary provisions to the D.Leg.vo 192/2005

- **LEGISLATIVE DECREE 115/2008**
  Implementations of European Directive 2006/32/EC on Energy saving and repealing Directive 93/76/EEC

- **LEGISLATIVE DECREE 59/2009**
  Carring out rule of Art. 4 Item 1-a) b) D.Leg.vo 192/2005

- **LEGISLATIVE DECREE 28/2011**
  Implementations of European Directive 2009/28/EC on Renewable Energy

- **MINISTERIAL DECREE 22/11/2012**
  Amendment to Annex A of Legislative Decree 19 August 2005, n. 192, implementing Directive 2002/91 / EC on the energy performance of buildings.

- **LEGISLATIVE DECREE 63/2013, dated 4/6/2013**
  Urgent measures for the transposition of Directive 2010/31 / EU of the European Parliament and of the Council of 19 May 2010 on the energy performance for the definition of infringement proceedings launched by the European Commission, as well as other provisions on cohesion social"

- **LAW3/8/2013, n. 90**
  Urgent measures for the transposition of Directive 2010/31 / EU of the European Parliament and of the Council of 19 May 2010 on the energy performance for the definition of infringement proceedings launched by the European Commission, and other provisions on social cohesion.

- **MINISTERIAL DECREE 26 June 2015**
  Application of the methods of calculation of energy performance and definition of requirements and the minimum requirements of the buildings**.**

- **LEGISLATIVE DECREE n. 199, 8 November 2021,**
  Implementation of Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources.

- **UFC 1-200-02**
  High Performance and Sustainable Building Requirements, with Change 2; 1 Jun 2022

- **ASHRAE Standard 90.1-2019,**
  Energy Standard for Buildings Except Low-Rise Residential Buildings

- **UNI EN 52120-1 (2022)**
  Energy performance of buildings - Contribution of building automation, controls and building management - Part 1: General framework and procedures (ISO 52120-1:2021)

2. MECHANICAL SYSTEMS

- **UNI 10349: 2016**
  Heating and cooling of buildings – Climatic data**.**

- **UNI/TS 11300-1/2/3/4/5/6**
  Energy performance of buildings

- **UNI EN 12831:2018**
  Heating systems in buildings – Method for calculation of the design heat load

- **UNI 10339 (2009)**
  Air conditioning Systems for thermal comfort in buildings. General, classification, and requirements

- **UNI 16798 series**
  Energy performance of buildings. Ventilation for buildings

- **UNI 10412-1:2006**
  Hot water heating systems – Safety requirements – Part 1: Specific requirements for heating systems provided with heat generators either electrical or burning solid, liquid or gaseous fuels

- **UNI 9182:2014**
  Hot and cold water supply and distribution systems - Design, installation and testing

- **UNI EN 806**
  Specifications for installations inside buildings conveying water for human consumption

- **UNI EN ISO 4064-1/2/3/4/5**
  Water meters for cold potable water and hot water

- **UNI 8065:2019**
  Water treatment in winter and summer air conditioning systems, for production of domestic hot water and solar thermal systems

- **LEGISLATIVE DECREE 9 April 2008, n. 81**
  Implementation of article 1 of the law of 3 August 2007, n. 123, concerning the protection of health and safety in the workplace

- **MINISTERIAL DECREE, 6 April 2004, n. 174**
  Regulation of materials and objects that can be used in plumbing systems for the treatment and distribution of water intended for human consumption.

- **MINISTERIAL DECREE, 2 February 2001, n. 31**
  Implementation of Directive 98/83/EC relating to the quality of water intended for human consumption.

- **LEGISLATIVE DECREE, 19 May 2016, n. 84**
  Implementation of Directive 2014/32/EU - MID relating to measuring instruments.

- **Ministerial Decree of the Ministry of the Interior dated 31/03/2003**
  Fire reaction requirements of the materials making up the air distribution and intake ducts of the air conditioning and ventilation systems.

- **Ministerial Decree 14 October 2022**
  Amendments to the decree of 26 June 1984, concerning «Classification of reaction to fire and approval of materials for fire prevention purposes», to the decree of 10 March 2005, concerning «Classes of reaction to fire for construction products to be used in works for which the requirement of safety in the event of fire is prescribed" and to the decree of 3 August 2015 containing "Approval of technical standards for fire prevention, pursuant to article 15 of the legislative decree of 8 March 2006, n. 139".

- **D.P.R. 74/2013**
  Regolamento recante definizione dei criteri generali in materia di esercizio, conduzione, controllo, manutenzione e ispezione degli impianti termici per la climatizzazione invernale ed estiva degli edifici e per la preparazione dell'acqua calda per usi igienici sanitari, a norma dell'articolo 4, comma 1, lettere a) e c), del d.lgs. 19 agosto 2005, n. 192

  D.M. 01.12.1975 and INAIL Regulations;

- **D.P.R. 146/2018;**
  Implementation of Regulation (EU) No. 517/2014

- **Reg. UE 2024/573**
  Fluorinated gases, amending Directive (EU) 2019/1937 and repealing Regulation (EU) No. 517/2014

- **Decreto interministeriale 26.06.2015**
  Adeguamento linee guida nazionali per la certificazione energetica degli edifici

- **D.Lgs. 18/2023**
  Implementation of Directive (EU) 2020/2184 of the European Parliament and of the Council of 16 December 2020 on the quality of water intended for human consumption. (23G00025)

- **UFC 3-400-02**
  Design: Engineering Weather Data

- **UFC 3-410-01**
  Energy conservation

- **ASHRAE Handbooks, 2023**
  Fundamentals Volume

- **ASHRAE Standard 62.1-2019,**
  Ventilation for Acceptable Indoor Air Quality

- **International Mechanical Code (IMC) 2021**

- **International Plumbing Code (IPC) 2021**

- **UFC 3-401-01**
  Mechanical Engineering, with Change 1; 1 Oct 2015

- **UFC 3-420-01**
  Plumbing Systems; 1 Apr 2021

- **NFPA 90A-2021**
- Standard for the Installation of Air Conditioning and Ventilating Systems

FIRE PREVENTION

- **Ministerial Decree of the Ministry of the Interior dated 3 August 2015**
  Approval of technical fire prevention standards, and subsequent amendments and additions

- **MINISTERIAL DECREE 27 MAY 1987, NO. 239**

- **DM 16/02/2007**
  Fire resistance classification of construction products and elements of construction works

- **D.M. 03 SET 2021,**
  Mini-code decree

- **Decreto ministeriale (Ministero dell'interno) 07-08-2012**
  Disposizioni relative alle modalita' di presentazione delle istanze concernenti i procedimenti di prevenzione incendi e alla documentazione da allegare, ai sensi dell'articolo 2, comma 7, del decreto del Presidente della Repubblica 1° agosto 2011, n. 151.

- **D.P.R. 1 agosto 2011, n. 151**
  Regolamento recante semplificazione della disciplina dei procedimenti relativi alla prevenzione degli incendi, a norma dell'articolo 49, comma 4-quater, del decreto-legge 31 maggio 2010, n. 78, convertito, con modificazioni, dalla legge 30 luglio 2010, n. 122

- **UNI EN 3**
  Portable fire extinguishers

- **UNI 9994**
  Fire Extinguishing Equipment - Fire Extinguishers

- **UNI CEN/TR 14922:2012**
  Portable fire extinguishers - Model laboratory - Report in compliance with EN 3-7

- **UNI EN 12845:2020**
  Fixed firefighting systems - Automatic sprinkler systems - Design, installation and maintenance

- **UNI 9795 (2021 Edition)**
  Automatic fire detection and fire alarm systems. Design, installation and operation

- **EN UNI 10779:2021**
  Firefighting equipment - Hydrant systems - Design, installation and operation

- **IBC, International Building Code, 2021 Edition**

- **NFPA 1,**
  Fire Code, 2018 Edition

- **UFC 1-300-09N,**
  Navy and Marine Corps Design Procedures, with Change 6 dated 09 July 2021

- **UFC 3-600-01**
  Design: Fire Protection Engineering for Facilities", Change 6 dated 6 May 2021

- **NFPA 10,**
  Standard for Portable Fire Extinguishers, 2022

- **NFPA 13,**
  Standard for the Installation of Sprinkler Systems, 2022

- **NFPA 24,**
  Standard for the Installation of Private Fire Service Mains and Their Appurtenances, 2022

- **NFPA 72,**
  National Fire Alarm and Signaling Code, 2022

- **NFPA 101,**
  Life Safety Code, 2021

- **NFPA 220,**
  Standard on Types of Building Construction, 2018

- **UFC 1-200-01**
  DoD Building Code (General Building Requirements), 01 September 2022 with Change 2 dated 12 June 2023

ELECTRICAL SYSTEMS

- **CEI 0-2 (2022)**
  Project Documentation Guide for Electrical Systems

- **CEI 64-8 (2023)**
  Impianti elettrici utilizzatori a tensione nominale non superiore a 1000 V in corrente alternata e a 1500 V in corrente continua

- **CEI 64-12 (2009)**
  Guide for the execution of the earth installation in buildings for residential and tertiary use

- **CEI 11-17**
  Production, Transmission and distribution electrical systems- Cable lines

- **CEI 11-27 (2021-09)**
  Works on the electric plants

- **CEI EN 50173-3 (2018)**
  Information technology - Generic cabling systems

- **CEI EN 50174-2 (2018)**
  Information technology - Cabling installation. Part2: Installation planning and practices inside buildings

- **UNI EN 12464-1 (2011)**
  Light and lighting – lighting of workplaces – part 1

- **UNI EN 1838 (2022)**
  Emergency Lighting: Standards and Notes

- **ISO 16069 (2017)**
  Graphical Symbols – Safety Signs – Safety Way Guidance System

- **LAW 1 MARCH 1968, No. 186:**
  Dispositions concerning the production of materials, equipment, machinery, installations, and electrical and electronic systems.

- **Decree No 37/2008:**
  Norms for installation, expansion, and maintenance of technological system in the buildings.

- **Leg. Vo Decree 81/2008 – TUSL,**
  Improvement of safety and health of workers in the working place

- **UFC 3-501-01**
  Electrical Engineering, 2015 – Change 1, 01November 2019

- **UFC 3-520-01**
  Interior Electrical Systems, 2015 – Change 2, 12 April 2021

- **NFPA 70**
  National Electrical Code (NEC), 2023

- **UFC 4-141-05N**
  Navy and Marine Corps Facility and Energy Operations Centres

- **UFC 3-530-01**
  Interior and Exterior Lighting Systems and Controls, 09 February 2023

- **NFPA 101**
  Life Safety Code

- **UFC 3-580-01**
  Telecommunications interior infrastructure planning and design

CIVIL

- **D.Lgs. 03 Apr 2006, N. 152**
  Environmental standards

- **D.Lgs. 09 Apr 2008, n.81**
  Unified Text, Safety Regulations; realization of Article 1 of the Law 03 Aug 2007, n. 123, in the area of safeguarding the health and safety on the workplace

- **D.P.R. 13 Jun 2017, n.120**
  Regulation of the simplified technical norms for excavated earthen materials (soil and rock) in compliance with D.L. 12 Sep 2014, n.133, para 8, converted with amendments by Law n.164 of 11 Nov 2014

- **D.M. 28 Apr 1998, n.406**
  Rules for implementation of the European Union directive, on the regulation of the National Register of companies caring out the management of waste

- **D.M. 17 Jan 2018**
  Technical Rules for Construction

- **D.M. 6792 dated 05/11/2001**
  Functional and geometric guidelines for the construction of roads.

- **CNR BU 1-1951**
  Norms for acceptance of tar for road construction.

- **UNI EN 124 (2015)**
  Gully tops and manhole tops for vehicular and pedestrian areas - Part 1: Definitions, classification, general principles of design, performance requirements and test methods.

- **UNI EN 933**
  Tests for geometrical properties of aggregates

- **UNI EN 1097**
  Tests for mechanical and physical properties of aggregates

- **UFC 3-201-01, Civil Engineering.**
  20 December 2022

- **UFC 3-210-10**
  Low Impact Development, 28 August 2023

- **UFC 3-250-03**
  Standard Practice Manual for Flexible Pavement. 30 May 2018

- **UFC 3-250-04**
  Standard Practice for Concrete Pavements; with Change 2; 29 July 2009

ARCHITECTURAL

- **DECREE OF THE MINISTRY OF HEALTH** dated 5 July 1975
  Amendments to the ministerial instructions dated 20 June 1896, relating to the minimum height and to the main health and hygiene requirements of the living quarters

- **D.LGS. , NO. 81/08**
  Consolidated Act on Health and Safety in work sites

- **Regional Law, 6 October 2015, n. 24.**
  Rules for the safety of working at heights and for the prevention of accidents resulting from the risk of falls from heights.

- **UNI EN 12464-1 (2011)**
  Light and lighting - Lighting of workplaces - Part 1: Indoor workplaces.

- **PRESIDENTIAL DECREE N. 380,** dated June 6, 2001
  Consolidated text of the legislative and regulatory provisions on building construction matter

- **LAW 9 JAN 1989, No 13**:
  Instructions for supporting the overcoming and the elimination of architectural barriers in private buildings (Modified by Law 27 Feb 1989, No. 62)

- **D.P.R. 24 JUL 1996, No 503:**
  Technical norms for the elimination of architectural barriers for access to buildings and public service areas

- **MINISTERIAL DECREE - MINISTRY OF PUBLIC WORKS June 14, 1989, n. 236**.
  "Technical requirements necessary to guarantee accessibility, adaptability and visitability of private buildings and subsidized and facilitated public housing, for the purpose of overcoming and eliminating architectural barriers."

- **ARCHITECTURAL BARRIERS ACT (ABA) STANDARDS**

- **ADA STANDARDS FOR ACCESSIBLE DESIGN (2010)**

- **INTERNATIONAL BUILDING CODE (IBC), 2021**

- **UFC 1-200-01**
  General Building Requirements" - Requires compliance with "ABA Accessibility Standard for Department of Défense Facilities

- **UFC 1-200-01**
  DoD Building Code (General Building Requirements), 01 September 2022 with Change 2 dated 12 June 2023

- **UFC 1-200-02**
  High Performance and Sustainable Building Requirements, with Change 2; 1 Jun 2022

- **UFC 2-000-05N**
  Facility Planning for Navy/Marine Corps Shore Installations; 2019

- **UFC 3-101-01**
  Architecture, with Change 3 dated 02 October 2023

- **UFC 3-120-10 I**
  Interior Design; with Change 2 dated 15 June 2021

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62. Annex 4 – Electrification of Standard Building Operations and Installations

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63. Annex 5 - HVAC Chillers System Standardization

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64. Annex 6
Contractor's response to construction to warranty service requirements