SECTION 01 11 00.00 10

GENERAL CONTRACT REQUIREMENTS

PART 1 GENERAL

1.1 DEFINITIONS

The term "Government" refers to "United States Government" whenever the term "Government" appears in this Contract, unless otherwise indicated within the Contract.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ASHRAE 189.1	(2017) Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings
ASHRAE 52.2	(2017) Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size

ASTM INTERNATIONAL (ASTM)

ASTM D6245	(2012) Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality and Ventilation
ASTM D6345	(2010) Standard Guide for Selection of Methods for Active, Integrative Sampling of Volatile Organic Compounds in Air

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 10	(2022; ERTA 1 2021) Standard for Portable Fire Extinguishers
NFPA 241	(2022) Standard for Safeguarding Construction, Alteration, and Demolition Operations

SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)

ANSI/SMACNA 008	(2007) IAQ Guidelines for Occupied Buildings Under Construction, 2nd Edition

U.S. ARMY CORPS OF ENGINEERS (USACE)

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

Manual

U.S. NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC)

NAVFAC P-307 (2016) Weight Handling Program Management

U.S. ARMY GARRISON JAPAN (USAG-J)

Regulation 190-13 (2013) Installation Access and Control Procedures

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information onlysubmittals not having a "G" designation are for Contractor Quality Control or Designer of Record approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Initial Site Conditions Photos
Key Personnel Qualifications; G
[Conformed Drawings Submittal]
[INDOOR AIR QUALITY (IAQ) MANAGEMENT PLAN; G]

SD-07 Certificates

Monthly Progress Photos;

SD-11 Closeout Submittals

[Construction Completion Photos;]

1.4 ACCEPTABLE ALTERNATIVE JAPANESE STANDARDS

Where indicated in the technical specifications REFERENCES paragraphs, acceptable Japanese standards are listed which are considered acceptable alternatives to the US Standards within the Contract Specifications. Contract specifications authorize the use of specified acceptable alternative Japanese standards. A limited set of modified UFGS incorporating previously identified and accepted Japanese standards and methods (also known as Japan Edited Specifications, or JES) can be found at https://www.poj.usace.army.mil/Business-With-Us/References/. Other portions of the specifications also authorize the use of specified acceptable alternative Japanese standards. The use of products not meeting the applicable US standards of the Contract or alternative Japanese standards specifically authorized by the Contract is prohibited unless authorized by the Contracting Officer. Japanese standards not identified in these specifications as being acceptable alternatives to US standards may be submitted to the Contracting Officer for consideration as acceptable alternatives after award using the variation request process set forth in Section 01 33 00 SUBMITTAL PROCEDURES. Prior to the use of such proposed additional alternative Japanese standards, written approval by the Contracting Officer is required. Incorporation of methods, materials, and equipment that will promote cost-effective and timely maintenance, and that are otherwise authorized by the contract, is highly encouraged.

[1.5 GOVERNMENT FURNISHED CONTRACTOR INSTALLED ITEMS

Attachment 01 11 00.00 10-A "Government Furnished Property" provides the items that shall be Government Furnished, Contractor Installed (GFCI).

]1.6 MANDATORY U.S. TESTED PRODUCTS

The following items shall meet U.S. testing methods (e.g. UL listed, FM approved, ASTM, etc.) and shall be labeled as required. These items shall not be substituted with Japanese testing methods (e.g. JIS, JASS, etc.) for certification:

a. Fire suppression systems, including valves, alarm valves, sprinklers. Fire suppression systems includes wet chemical, dry chemical, mist, deluge, pre-action, foam, and clean agent, in addition to standard sprinkler systems.

b. Fire pumps, including motors, controllers, drives, and valves.

c. Fire alarm and mass notification systems, including panels, initiating devices, notification appliances, smoke alarms.

d. Engineering technician requirements for development of fire suppression systems and alarm system shop drawings, calculations, and material submittals.

e. Fire doors, smoke doors, and frames.

f. Fire dampers and smoke dampers.

g. Interior finishes with flame spread and smoke development ratings required for installation of rated assemblies.

h. Insulation with flame spread and smoke development ratings.

i. Fire proofing and fire stopping materials.

j. Plenum rated cables.

k. Domestic water supply piping in the building and plumbing fixtures that directly dispense potable drinking water (NSF stamped and/or labeled). Plumbing fixtures conforming to Japanese standards that do not directly dispense potable drinking water are allowed, such as urinals and water closets, bath and shower faucets, utility/janitor faucets, lavatories and sinks.

1.7 KEY PERSONNEL QUALIFICATIONS

The Contractor's Project Key personnel shall not be assigned duties to any other Contracts (excluding the project manager) without approval from the Contracting Officer. [The Project Superintendent, CQC System Manager, and Site Safety Health Officer shall all be separate persons, and shall not have other duties assigned.] [One person may be assigned the duties of Project Superintendent and CQC System Manager provided they meet all qualification requirements and maintain presence on site as required for the various duties. The Site Safety Health Officer shall not be assigned other duties.] Within five (5) working days after receipt of the Notice to Proceed, the Contractor shall submit in writing to the Contracting Officer

an organizational chart, the qualifications and background history of the proposed Key Personnel for approval. The Contracting Officer shall have the explicit right to determine acceptability (or rejection) of the proposed individuals. In addition, the Contractor shall be responsible to replace said individuals upon notification by the Government should performance become inadequate during the Contract period. Key Personnel shall attend the Preconstruction conference.

[1.7.1 Program Manager

The Program Manager is responsible for the overall management of the Contract. The Program Manager shall have a minimum of [five (5)] years experience in the administration of construction Contracts on construction projects similar in size and scope to this Contract, and shall have a thorough knowledge of the duties of key management personnel assigned to this Contract.

]1.7.2 Project Manager

The Project Manager shall have a minimum of [five (5)] years experience as a Project Manager on construction projects [containing [___] components]similar in size and scope to this Contract. The Project Manager shall maintain oversight of Contract proposals prepared by the Contractor staff and be authorized to negotiate Contract terms and sign Contract documents on behalf of the Contractor. The project manager does not need to be present on the site daily, but shall attend weekly progress meetings and be available on site within 24 hours upon request. Project Manager [shall not have other duties assigned][Project Manager may have other duties assigned].

1.7.3 Project Superintendent (Supervisor)

The Project Superintendent shall be on the work site when on-site work is being performed and shall be available to the Contracting Officer or his representatives upon request. The Project Superintendent shall have overall responsibility for all operations at the job site and be authorized to make decisions, negotiate Contract terms and sign Contract documents on behalf of the Contractor. The Project Superintendent shall have a minimum of [five (5)] years experience as a superintendent on construction projects [containing [___] components]similar in size and scope to this Contract[.][, and have at least one the following qualifications:]

[a. U.S. Registered Structural Engineer or U.S. Registered Architect or 1 Kyu Kenchikushi (1st Class Qualified Architect).

][b. U.S. Registered Civil Engineer or 1 Kyu Doboku Sekou Kanrigishi (1st Class Civil Engineering Works Management Engineer).

][c. U.S. Registered Mechanical or Electrical Engineer or 1 Kyu Kankouji Sekou Kanrigishi (1st Class Building Mechanical and Electrical Engineer).

][d. U.S. Registered Electrical Engineer or 1 Kyu Denkikouji Sekou Kanrigishi (1st Class Electric Construction Management Engineer).

][e. U.S. Bachelors Degree in Construction Management or 1 Kyu Kenchiku Sekou Kanrigishi (1st Class Building Construction Management Engineer)

][f. U.S. Bachelors Degree in Construction Management or AI*DD Sougoushu (AI*DD Construction Engineer).

]1.7.4 English Speaking Representative (Interpreter)

At all times during the Contract period the Contractor shall have an employee capable of fluent bilingual speech in the Japanese and English languages at the job site. The bilingual interpreter shall have the capability to receive and issue concise and technical explanation and instructions between the Government representative(s) and Contractor supervisory personnel concerning all aspects of Contract administration and construction. Within fifteen (15) days after receipt of the Notice to Proceed, the Contractor shall submit in writing to the Contracting Officer the qualifications and background history of the proposed interpreter for approval. The Contracting Officer shall have the explicit right to determine acceptability or rejection of the proposed individual. In addition, the Contractor shall be responsible to replace said individual upon notification by the Government should performance become inadequate during the Contract period. The interpreter shall attend the preconstruction conference. Interpreter shall not have other duties assigned.

1.7.5 Contractor Quality Control

1.7.5.1 Contractor Quality Control System Manager (CQCSM)

The CQC System Manager is required to be a graduate of an accredited college with an engineering, architecture, or construction management degree, with a minimum of [5] years construction experience on construction of similar size and scope to this Contract. Refer to Section 01 45 00.00 10 QUALITY CONTROL, Paragraph "CQC System Manager" for additional requirements.

1.7.5.2 Contractor Quality Control Personnel

The following Contractor Quality Control (CQC) Personnel are required:[Civil,][Mechanical,][Electrical,][Structural,][Architectural,][Fire Protection,][Communications,][Environmental,][Submittals,][Occupied Family Housing,][Concrete, Pavements, and Soils,][Testing, Adjusting, and Balancing,][Design Quality Control Manager]. All other specialties in section 01 45 00.00 10 not identified in this paragraph does not apply to this project.

See Section 01 45 00.00 10 QUALITY CONTROL for qualification requirements for CQC personnel. These individuals or specialized technical companies [must be directly employed by the prime Contractor and can not be employed by a supplier or subcontractor on this project][may be employed by the prime contractor or a subcontractor on this project]. These individuals [shall have no other duties other than quality control] [can perform other duties but need to be allowed sufficient time to perform the specialized personnel's assigned quality control duties as described in the Quality Control Plan]. [A single person can cover more than one area provided that the single person is qualified to perform quality control activities in each designated and that workload allows.][A single person cannot cover more than one area].

1.7.6 Site Safety and Health Officer (SSHO)

See Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS.

[1.7.7 [SUSTAINABILITY REPRESENTATIVE][TPC SUSTAINABILITY PROFESSIONAL]

See Section 01 33 29 SUSTAINABILITY REPORTING.

][1.7.8 [Protective Coating Specialist (PCS)]

See Section 09 97 13.27 HIGH PERFORMANCE COATING FOR STEEL STRUCTURES.

]1.7.9 Pass Coordinator

A person on the contractor's staff who is familiar with the requirements of USAG-J Regulation 190-13, Individual and Vehicle Access Pass Procedures, and USAG-J vehicle security inspection procedures. The Pass Coordinator must be able to obtain a DBIDS access pass with escort privileges and may be required to escort other contract personnel. Although a TOEIC score is not required, the Pass Coordinator must be able to understand pass requirements and complete pass application forms in the English language.

1.8 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

a. This paragraph specifies the procedure for determination of time extensions for unusually severe weather in accordance with the Contract clause entitled "DEFAULT (FIXED-PRICE CONSTRUCTION)". In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

(1) The weather experienced at the project site during the Contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

(2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

b. The listing below defines the monthly anticipated adverse weather days for the Contract period and is based upon 20th Weather Squadron (MAC), U.S. Air Force; Iwakuni U.S. Marine Corps Air Station, Weather Service; Sasebo Naval Pacific Meteorology and Oceanography Detachment; JASDF (Japan Air Self Defense Force), or similar data for the geographic location of the project. (More specific information may be obtained as specified under Special Contract Requirements Clause entitled "Physical Data.")

MONTHLY ANTICIPATED ADVERSE WEATHER DELAYS
WORK DAYS BASED ON (5) DAY WORK WEEK

	Misawa-area	Kanto Plain	Iwakuni	Okinawa	Sasebo	Osaka
JAN	8	1	2	5	7	4
FEB	9	3	4	7	6	4
MAR	6	6	7	8	7	5
APR	3	6	6	6	7	4
MAY	4	4	6	6	6	4
JUN	5	9	8	6	12	5
JUL	6	6	6	6	9	4
AUG	6	6	5	9	9	3

SEP	6	7	6	7	9	4
OCT	4	5	4	4	8	4
NOV	6	4	4	4	5	3
DEC	7	1	3	5	5	3

The above schedule of anticipated adverse weather days shall constitute the base line for monthly (or portion thereof) weather time evaluations.

c. Upon acknowledgment of the Notice-to-Proceed (NTP) and continuing throughout the Contract, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day.

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

e. For all work under this Contract, adverse weather is defined as:

(1) Rainfall - Number of occurrences of precipitation greater than or equal to 0.10 inches (2.54mm).

(2) Snowfall - Number of occurrences of precipitation greater than or equal to 1.00 inches (25.4mm). (Not applicable to Okinawa Area)

(3) Cold Temperature - Number of occurrences when daily maximum temperature does not exceed the monthly mean low temperature or 32 degrees Fahrenheit (0 degrees Celsius), whichever is lower. (Not applicable to Okinawa Area)

(4) Concurrence between snowfall and cold temperature is 80 percent, i.e. 80 percent of the time snow falls, the temperature is "cold".

(5) Wind - Number of occurrences when the wind is gusting 30 knots (56 kilometers/hour) or greater.

f. The Contractor's schedule must reflect the above anticipated adverse weather delays on all weather-dependent activities.

1.9 PERMITS AND RESPONSIBILITIES

The Contractor shall, without additional expense to the Government, be responsible for obtaining any necessary licenses and permits, and for complying with any laws, codes, and regulations (including the requirements of material, prefectural, and local Government of Japan, and associated military installation) applicable to the performance of work. The Contractor shall also be responsible for all damages to persons or property that occur as a result of the Contractor's fault or negligence. These damages shall be repaired or replaced by the Contractor at no cost to the Government. The Contractor shall take proper safety and health

precautions to protect all work and workers.

Submit a schedule of planned road closures to the Contracting Officer with the initial project schedule. Notification of specific road closures shall be in writing to the Contracting Officer not less than thirty (30) calendar days in advance of the intended closure. The road closure request shall include the planned traffic control measures as well as the general information about the closure. All road closures shall be coordinated with base officials and are subject to base requirements. No road closure shall be permitted until the Contractor receives written approval from the Contracting Officer. Full road closures is generally not permitted (at least one way traffic shall always be provided).

1.9.1 Naha Port Authority (NPA) Work Permit

The Contractor shall obtain a Harbor Facility Usage Permission Application (Form Number 5), also known as the "Kowan Shisetsu Shiyou Kyoka Shinseisho" permit form addressed to the Naha Port Authority Administrator.

The submission shall include basic information regarding the Contractor's point of contact information, project title, description of work, and usage area information, as well as a work plan (to include scheduling), emergency contact plan, and protection plans. Application shall be hand delivered to:

Naha Port Authority
General Affairs Division
2-1 Tondocho (2nd Floor)
Naha City, Okinawa Prefecture
900-0035

The NPA will require scheduling coordination and due consideration to all Naha Commercial Port end users and coordination with other stakeholders, such as the Local Fisheries Association, to ensure that stakeholder operations are not negatively impacted by the proposed activity and ensure that appropriate coordination is performed by the construction activity proponent. The final Harbor Facility Usage Permit Application will be authorized by the Okinawa Prefectural Governor's office.

1.9.2 Work Application Package

In accordance with Article 31 of the GOJ Act on Port Regulations "Kou Sokuhou", the Contractor shall submit a Work Application Package known as a "Koji Sagyou Kyoka Shinseisho" for review and approval by the Maritime Traffic Division Office of the Japan Coast Guard (JCG) at Naha. A physical printed out copy shall be hand delivered to the following address:

Japan Coast Guard
Naha Coast Guard Office
Maritime Traffic Division
2-11-1 Minatomachi
Naha City, Okinawa Prefecture
900-8548

This application shall contain project safety information, work planning and scheduling, emergency management information as well as copies of all pertinent certifications and licenses (e.g. boat licenses, commercial diver's certifications, etc.) The minimum application review period is 30 days, although in the case of complicated work sites, review of work

permit application packages by the JCG may take longer.

The Naha Coast Guard Office normally does not accept a work permit package from a Contractor until approval of work is formalized first with the NPA. Therefore, ample time must be secured for the dredging Contractor to clear both NPA and JCG Naha Coast Guard Office work permitting processes during the pre-construction phase of the dredging project.

1.9.3 Safety Panel and Committee (SPC)

As part of the work permitting process, the Contractor shall also participate in a Safety Panel and Committee (SPC). This SPC is required by the Japan Coast Guard, and shall be facilitated by a consultant hired by the Okinawa Defense Bureau. Intent of the SPC is to provide a forum under which all stakeholder and port operator concerns can be identified and addressed. The Contractor shall attend and present proposed safety, environmental, and operational plans at the forum.

1.10 SPECIAL CONTRACT REQUIREMENTS

1.10.1 Meetings

a. Predesign Conference. A predesign conference per FAR 42.503 shall be held. The chairperson shall be the Contracting Officer or his/her designee. The chairperson shall be responsible for providing minutes of the meeting.

a. Preconstruction Conference. A Preconstruction Conference per FAR 42.503 shall be held. The chairperson shall be the Contracting Officer or his/her designee. The chairperson shall be responsible for providing minutes of the meeting.

a. Post Award Orientation. A post award orientation (often referred to as a Preconstruction Conference) per FAR 42.503 shall be held. The chairperson shall be the Contracting Officer or his/her designee. The chairperson shall be responsible for providing minutes of the meeting.

b. Weekly Progress Meetings. A weekly progress meeting shall be conducted, with the day, time, and location to be determined at the Preconstruction Conference. The Contractor's Project Manager, Superintendent, Interpreter, and Quality Control Manager shall attend. Representatives from the Government may include, but are not limited to, Director of Public Works/Facilities Engineering personnel, Project's Resident Office personnel, and Project Manager. The Contractor shall be prepared to discuss work completed during the previous week, work currently in progress, and work forecasted for the following week, as well as the status of any construction issues and open action items. Provide the meeting agenda for review 24 hours prior to the meeting, take notes during the meeting, and provide electronic copies of the meeting minutes in English within 24 hours of the progress meeting for review.

c. Red Zone Meeting. A Red Zone meeting shall be conducted for Contracts with a value in excess of 55,000,000 JPY or those deemed sufficiently complex by the Contracting Officer to warrant one. The purpose of the Red Zone meeting is to discuss closeout requirements for the contract and to establish a timeline to get those items completed (see Section 01 78 00 CLOSEOUT SUBMITTALS for typical closeout requirements). The meeting is a good time for the Contractor to gain approval on format

for items such as Operations and Maintenance manuals, the equipment-in-place list, the warranty plan, and any other items. The Initial Red Zone is typically scheduled when project reached 75 percent completion milestone. Provide the meeting agenda for review 24 hours prior to the meeting, take notes during the meeting, and provide electronic copies of the meeting minutes in English within 24 hours of the Red Zone meeting.

d. Safety and Quality Control Meetings. Safety and quality control meetings shall be held as needed and determined by the Contractor. See Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS and Section 01 45 00.00 10 USACE QUALITY CONTROL for specific requirements.

e. Construction Waste Management Meetings. See Section 01 74 19 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT for requirements.

f. Monthly Design Progress Meetings. A monthly design progress meeting shall be conducted, with the day, time, and location to be determined at the project kickoff meeting. The Contractor's Design team, Interpreter, and Design Quality Control manager shall attend. Representatives from the Government may include, but are not limited to, Client, Project Manager, and POJ Engineering personnel. The Contractor shall be prepared to discuss work completed during the previous week, work currently in progress, and work forecasted for the following week, as well as the status of any design issues and open action items. Provide the meeting agenda for review 24 hours prior to the meeting, take notes during the meeting, and provide electronic copies of the meeting minutes in English within 24 hours of the progress meeting for review.

[1.10.2 Conformed Drawings Submittal

Contractor shall submit one (1) hard copy Japanese-style folded and bound set of conformed A3 size drawings. Submittal shall be provided to the Resident Office at the Pre-Construction meeting. Conformed drawings are defined as the original advertised drawings with amended drawing sheets replaced in-kind with the corresponding original sheet number. If applicable, add new sheets and remove deleted sheets in accordance with amendment instructions. If multiple amendments are issued, supersede any previously amended drawing so that only the highest numbered amendment drawing is included.

]1.10.3 CONSTRUCTION INDOOR AIR QUALITY (IAQ) MANAGEMENT PLAN

Submit an IAQ Management Plan within 15 days after Notice to Proceed and not less than 10 days before the preconstruction meeting. The Plan shall include IAQ management practices implemented during construction and preoccupancy phases and describe how each requirement in ANSI/SMACNA 008 [and TPC requirements]will be met, addressed, and managed on the job site. The plan shall cover the following additional items:

a. Identify the key players and person(s) responsible for implementing the plan.

b. Specify procedures for protecting stored and installed absorptive materials from moisture damage.

c. Prohibit the use of tobacco products inside the building and within 7.5 meters (50 feet) of the building entrance at all times during

construction. Consider prohibiting smoking on the entire job site. If smoking will be allowed, locate on a site plan the designated locations and signage. Comply with the tobacco use policy of the local jurisdiction.

d. Indicate whether air handlers will be operated during construction, and specify compliant filtration procedures for permanent equipment that will be used.

e. Take photographs of each IAQ measure for documentation. Annotate photographs to indicate each IAQ measure depicted and its general location. Provide photographs of the methods employed to protect stored and installed absorptive materials from moisture damage during construction and preoccupancy.

Revise and resubmit the Plan as required by the Contracting Officer. Make copies of the final plan available to all workers on site. Include provisions in the Plan to meet the requirements specified below and to ensure safe, healthy air for construction workers and building occupants.

1.10.3.1 Requirements During Construction

Provide for evaluation of indoor Carbon Dioxide concentrations in accordance with ASTM D6245. Provide for evaluation of volatile organic compounds (VOCs) in indoor air in accordance with ASTM D6345. Use filters with a Minimum Efficiency Reporting Value (MERV) of 8 in permanently installed air handlers during construction.

1.10.3.1.1 Control Measures

Meet or exceed the requirements of ANSI/SMACNA 008, Chapter 3, to help minimize contamination of the building from construction activities. The five requirements of this manual which must be adhered to are described below:

a. HVAC protection: Isolate return side of HVAC system from surrounding environment to prevent construction dust and debris from entering the duct work and spaces.

b. Source control: Use low emitting paints and other finishes, sealants, adhesives, and other materials as specified. When available, cleaning products must have a low VOC content and be non-toxic to minimize building contamination. Utilize cleaning techniques that minimize dust generation. Cycle equipment off when not needed. Prohibit idling motor vehicles where emissions could be drawn into building. Designate receiving/storage areas for incoming material that minimize IAQ impacts.

c. Pathway interruption: When pollutants are generated use strategies such as 100 percent outside air ventilation or erection of physical barriers between work and non-work areas to prevent contamination.

d. Housekeeping: Clean frequently to remove construction dust and debris. Promptly clean up spills. Remove accumulated water and keep work areas dry to discourage the growth of mold and bacteria. Take extra measures when hazardous materials are involved.

e. Scheduling: Control the sequence of construction to minimize the absorption of VOCs by other building materials.

1.10.3.1.2 Moisture Contamination

a. Remove accumulated water and keep work dry.

b. Use dehumidification to remove moist, humid air from a work area.

c. Do not use combustion heaters or generators inside the building.

d. Protect porous materials from exposure to moisture.

e. Remove and replace items which remain damp for more than a few hours.

1.10.3.2 Requirements after Construction

After construction ends and prior to occupancy, conduct IAQ testing in accordance with ASHRAE 189.1 Section 10.3.1.4.

In the event that IAQ testing fails, conduct a building flush-out in accordance with ASHRAE 189.1 Section 10.3.1.3[and TPC requirements]. The space shall be ventilated at a minimum rate of 1.5 Liters per second per square meter of outdoor air while maintaining an internal temperature of at least 15 degrees C (60 degrees F) and no higher than 27 degrees C (80 degrees F) and relative humidity no higher than 60%. Total air volume of outdoor air will be determined by ASHRAE 189.1 Section 10.3.1.4 Equation 10-1. Total volume of outdoor air shall be approved by the Contracting Office prior to building flush-out

Air contamination testing must be consistent with EPA's current Compendium of Methods for the Determination of Air Pollutants in Ambient Air. After building flush-out or testing and prior to occupancy, replace filtration media. Filtration media must have a MERV of 13 as determined by ASHRAE 52.2.

1.11 PROGRESS AND COMPLETION PHOTOGRAPHS

Photographically document site conditions prior to start of construction operations. Provide monthly, and within one month of the completion of work, digital photographs, 1600 by 1200 by 24 bit true color 300 DPI minimum resolution in JPEG file format showing the sequence and progress of work. Take a minimum of [20] digital photographs each week throughout the entire project[and [20] digital photographs at completion of project]. Submit the Initial Site Conditions Photos, Monthly Progress Photos[, and Construction Completion Photos]. Indicate photographs demonstrating environmental procedures. Provide photographs for each month in a separate monthly directory and name each file to indicate its location on the view location sketch. Include a date designator in file names. Cross reference submittals in the appropriate daily report. Photographs provided are for unrestricted use by the Government.

1.12 BASE REGULATIONS

The Contractor and Subcontractor(s) shall become familiar with and obey all base regulations, including fire, traffic, safety, and security regulations. All Contractors shall keep within the limits of the work (and avenues of ingress and egress), and shall not enter any restricted areas unless required to do so and are cleared for such entry. The Contractor's equipment shall be conspicuously marked for identification.

1.12.1 Request for Contractor's Employee Passes and Vehicle Passes

No employee or representative of the Contractor shall be admitted to the work site without a Contracting Officer's furnished authorized admittance. Refer to USAG-J Regulation 190-13. Prior to the start of on-site work, submit applications for base passes to the Contracting Officer for key employees (project manager, site supervisor, interpreter, etc.) for long term DBIDS passes. The Contractor (through the employment of a Pass Coordinator), with assistance from the Resident Office, is responsible for securing sufficient passes for other workers, including subcontractor's employees and vehicles, required to access the base for the project duration. Additional personnel data shall also be furnished.

The Contractor shall use the USAG-J Form 1529 "EZ Pass" as the primary means of obtaining passes for all personnel who do not qualify for DBIDS passes. The USAG-J Form 1529 "EZ Pass" One Time/Multiple Access Roster must be complete and submitted to the Provost Marshall Pass and Vehicle Registration Office a minimum of three (3) U.S. workdays prior to access. The use of the USAG-J "one day" pass (AJ Form 47) should be avoided, and used only for urgent situations. Applicants for a "one day" pass may be required to wait for several hours for their pass to be issued. Contractor personnel applying for more than one (1) "one-day" pass within any 15-day period will not be issued multiple one-day passes, and will instead be required to apply for access via the USAG-J Form 1529, and wait three or more days for approval.

Provide all information required for background checks to meet base access requirements to be accomplished by Base Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements as directed by DOD, HQDA and/or local policy. The Government reserves the right to make changes to the Contractor security requirements or processes due to a change in the Force Protection Condition (FPCON).

In addition to security requirements, cranes, delivery "unic" trucks, forklifts, backhoes, and other equipment capable of vertical lift operations must comply with NAVFAC rules for access to the base. Refer to NAVFAC P-307. The operator must submit a P-1 Pass request and submit the equipment, its records, and operator records for inspection by Public Works prior to the initial entry onto base property. Vehicle passes for vertical lift equipment must be renewed monthly with Public Works as long as the equipment remains on base property.

Upon completion of this Contract, return all employee and vehicle passes to the base, and obtain a certification of receipt. Final payment shall be withheld until all passes have been returned.

1.12.2 No Smoking Policy

Smoking is prohibited on installations except in designated smoking areas. This applies to existing buildings, buildings under construction, and buildings under renovation. Discarding tobacco materials other than into designated tobacco receptacles is considered littering and is subject to fines. The Contracting Officer shall identify designated smoking areas.

1.12.3 Munitions and Explosives of Concern (MEC)

Munitions and Explosives of Concern (MEC): Unexploded Ordnance (UXO), Material Presenting a Potential Explosive Hazard (MPPEH), Chemical Agents (CA), or Discarded Military Munitions (DMM) on jobsites shall be treated as extremely dangerous and must be reported immediately. Follow the 3Rs: RECOGNIZE, RETREAT, and REPORT. In the event MEC are discovered or uncovered, immediately stop work in that area and immediately inform the Contracting Officer's Representative. Contractor shall provide dispatch and Contracting Officer's Representative with specific location of the item. Contractor personnel shall stop work in the immediate vicinity of the discovery and maintain a minimum distance of 300 meters from the item. Contractor shall maintain flexibility in redirecting personnel and work effort in the event that items possessing an explosive hazard are discovered and construction personnel are excluded from areas during the destruction/removal process.

1.12.3.1 Additional Requirements for Camp Foster

All workers on site involved in the earthwork, in any manner, must attend a UXO brief on Marine Camp Foster. Upon completion of the brief, the worker will receive a laminated card verifying that they attended the brief. The card does not expire and is valid for all USACE construction contracts on Okinawa, but is non-transferrable between workers. The USACE team will help coordinate the training and assist with processing base access requests for Marine Camp Foster as needed. The brief is free of charge, but the contractor is responsible for all other costs associated with transport, labor, and all other costs related to the training. The expected duration of this training is two hours.

1.12.4 Unexploded Ordnance (UXO) Procedures on Kadena Air Base

Kadena Air Base 718 CES/CEN assesses the area as UXO unlikely with a low probability of uncovering UXO's on the site. However, since there is always a possibility of encountering UXOs anywhere on Okinawa, albeit unlikely at this location, excavations and other construction activities related earth work on the project site, require a measure of caution. The Ground Penetrating Radar (GPR) survey specified in 01 35 26 paragraph "Utilities Within and Under Concrete, Bituminous Asphalt, and Other Impervious Surfaces" for the identification of underground utilities will identify anomalies. Best practices of conducting GPR surveys are to repeat them in areas greater than the used method's level of detection (LOD), down to a depth of 2 meters, to ensure no utility lines or other suspicious objects are present. If suspected UXOs are identified, the construction team needs to follow the standard UXO notification procedures per the Kadena policies identified in attachment 01 11 00.00 10-[B] "UXO Emergency Mitigation Steps and Survey Policies." The contact number for the Emergency Dispatch Center for Kadena Air Base is 098-934-5911. See the following website for additional information: www.kadena.af.mil/About-Us/Emergency-Actions/.

1.13 ORDER OF WORK

1.13.1 Schedule

Schedule all work to cause the least amount of interference with activity operations. Permission to interrupt any activity or roads shall be requested in writing a minimum of 30 calendar days prior to the desired date of interruption. Interruptions of activities, roads, and utility

services shall be allowed only when they will not cause interference with the operations of the activity. The Contractor shall remove and dispose off Government property all Contractor generated debris at the end of each shift, or more frequently if required, to keep the space usable. Upon award of this Contract, the Contractor shall begin and complete all required work; ready for use and including cleanup, within the time period specified on this Contract. All work scheduled in occupied areas shall be accomplished in such a manner as to cause the least possible inconvenience to the occupants.

1.13.2 Working Hours

Normal Working Hours and Days are Monday through Friday, 0800 hours through 1700 hours. Saturday work is allowed on this contract and does not require additional approvals. Notify the Contracting Officer at least three days in advance when scheduling Saturday work.

1.13.3 Noise and Vibration

Noise greater than 70 decibels and vibration producing work in occupied buildings shall be conducted outside core school/business hours (0700 - 1430) unless written permission is given by the Contracting Officer.

1.13.4 Work Outside of Regular Hours

If the Contractor desires to carry on work outside the regular hours, on Sundays, or holidays, a written application shall be submitted to the Contracting Officer or his representative for approval. The Contractor shall allow three working days notice to enable satisfactory arrangements to be made by the Government for inspecting the work in progress. If work is to be accomplished after daylight hours, the Contractor shall illuminate the area in a manner approved by the Contracting Officer or their representative and in accordance with EM 385-1-1. Unless directed by a Contracting Officer, work accomplished outside regular working hours shall be at no additional cost to the Government.

1.14 NUCLEAR DENSOMETER TESTING

Nuclear densometer testing and all forms of radiography are not permitted on U.S. Navy installations in Japan because such testing may interfere with Government of Japan monitoring activities.

1.15 FIRE PREVENTION DURING CONSTRUCTION

1.15.1 General

Comply with all pertinent fire prevention provisions of the US Army Corps of Engineers Manual EM 385-1-1, NFPA 241 and shall follow the Installation fire regulations. Prior to commencement of welding or other hot work operations, obtain approval from the Installation Fire Chief.

1.15.2 Supply

No more than one day's supply of paint, paint materials, or compounds shall be allowed within the area of the building, and shall be removed from the job site after each working day. No gasoline or similar low flash point flammable liquid shall be allowed within the building area. After proper coordination with the Facility's Emergency Services (to confirm the maximum allowable quantities and location of storage), storage

of additional product may be authorized.

1.15.3 Fire Extinguishers

Provide, as a minimum, the number, size, and type of fire extinguishers in accordance with the latest NFPA 10. The Contractor shall comply with the Installation Fire Chief's policies if they are more stringent than NFPA 10. Fire extinguishers shall remain the property of the Contractor and shall be removed upon completion of the project.

1.15.4 Housekeeping

Accumulations of combustible material shall be removed from the building area on a daily basis.

1.15.5 Handling of Gasoline

Gasoline shall be stored in industry standard approved safety containers. Adequate ventilation shall be provided to safely dispose of flammable vapors where flammable liquids are utilized. Gasoline powered equipment shall be refueled a minimum 6 meters away from the building area.

1.15.6 Notification of Fire

Be familiar with methods for notifying the Installation Fire Department. The Installation's fire poster shall be posted in conspicuous locations and at telephones in construction shacks.

1.16 CONTRACTOR FURNISHED MATERIAL AND WORKMANSHIP

The Contractor shall furnish all materials necessary for performance of the work of this contract unless otherwise specified. Materials procured shall be new and shall meet any specifications and standards listed in these specifications. If no specification for a material needed to perform this contract are stated, the material shall be new, of acceptable industrial grade and quality, equal to or better than the manufacturer's original equipment for equipment being repaired or replaced, and will be compatible with existing materials and systems. All materials provided under this contract shall be free of asbestos, lead in paint, and PCB. The Contracting Officer reserves the right to request submittal of any material being provided under this contract. The Contracting Officer shall make the final determination of the acceptability of any material used on this contract.

1.17 CORRESPONDENCE

All correspondence addressed to the Government shall be made through serialized letters furnished with one original and two copies. Serialized letters shall begin with the number S-0001 and shall be continuous without a break in numbering. Serialized letters shall include the contract title and number, date, subject, and shall be signed by an authorized representative of the Contractor.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

-- End of Section --