

Statement of Work  
for  
Renovate Lift Station Heritage Heights, B99007  
Work task # 13818031

Project shall include the furnishing of all materials, labor, and equipment necessary to repair the Heritage Heights Sewer Lift Station, B99007. Perform work in accordance with Statement of Work, UFC's, International Building Code, International Mechanical Code, International Plumbing Code, National Electric Code, Architectural Barriers Act, and NFPA Life Safety Code.

Actual existing conditions including but not limited to equipment, sizes, materials, locations, voltage/phase(s), etc. are to be field verified by the contractor prior to bid. Any discrepancies discovered shall be provided to the Contracting Officer prior to bid.

Intent of the project is to replace all the existing components of the Lift Station per this SOW. All new materials shall be submitted for approval. Contractor shall include all bypass materials, equipment, and labor to keep flow of sewage bypassed and/or flowing if lift station requires a total shutdown or bypass is required at any time during construction. Period of Performance shall not exceed 60 calendar days.

Wet Pit:

1. Replace wet well pump footers, cross rails, guide rails, pipes, pipe brackets, valves, etc.
2. Replace existing (2) pumps. The (2) new Flygt SmartRun NP3120.060-256-6.5hp, 460v3 phase or equal pumps shall have the following specifications:
  - A. This station shall be equipped with 2 submersible, close-coupled wastewater pumps.
  - B. Each pump shall be equipped with a 6.5 HP submersible electric motor, capable of operating on 460 volt, 3 phases, 60 hertz voltage supply.
  - C. The hydraulic of the pump shall be capable of handling raw domestic wastewater and storm water with fibrous materials like wet wipes.
  - D. The impeller blades shall be self-cleaning upon each rotation as they pass across a sharp relief groove in the Insert ring and shall keep the impeller blades clear of debris. The insert ring shall have a guide pin which moves fibers from the center of the impeller to the leading edges of the impeller. The impeller shall move axially upwards to allow larger debris to pass through and immediately return to normal operating position. The clearance between the insert ring and the impeller leading edges shall be adjustable.

- E. The impeller shall be wear resistant and made of high chromium cast iron with at least 24% chrome against sand and grit which is expected to enter the pump station with the sewage or the storm water. Impellers that have surface hardening (by thermal, coating, etc.) will not be allowed.
- F. The pump shall be capable to operate without any limitation between 50% and 125% of the Best efficiency point (B.E.P) of the performance curve.
- G. The impeller shall be mounted on the motor shaft. Couplings shall not be accepted.
- H. The pump motor shall be induction type with a squirrel cage rotor, shell type design, housed in an air filled, watertight chamber. It shall be permanently submersible according to standard IEC 60034 and protection class IP 68.
- I. The stator windings shall be insulated with moisture resistant Class H insulation rated for 356°F.
- J. The motor shall be capable of no less than 30 evenly spaced starts per hour and be able to operate throughout the entire pump performance curve from shut-off through run-out even when the motor is not submerged.
- K. Sealing of the pumping unit to the discharge connection shall be accomplished by a machined metal to metal watertight contact. Sealing of the discharge interface with a diaphragm, O-ring or profile gasket will not be acceptable.
- L. It shall be possible to lift and lower the pumps on parallel guide bars and connect them to wet well mounted discharge connection. There shall be no need for personnel to enter the wet well when removing or reinstalling the pumps.
- M. The pump housing shall be prepared for the assembling of a sump mixing valve. The discharge flange of the pump housing shall be **3"**.
- N. The junction chamber containing the terminal board shall be hermetically sealed from the motor by an elastomeric compression seal. Connection between the cable conductors and stator leads shall be made with threaded compression type binding posts permanently affixed to a terminal board. The motor and the pump shall be produced by the same manufacturer.
- O. The motor shall be protected by 3 thermal switches embedded in the stator set to open at 260°F and one leakage sensor floating type located in the stator chamber. The sensor and the switches shall be connected to the control panel which shall stop the motor and send an alarm when the sensors are activated.
- P. The cable entry shall consist of dual cylindrical elastomer sleeves, flanked by washers, all having a close tolerance fit against the cable and the cable entry. Epoxies, silicones, or other secondary sealing systems shall not be considered acceptable.
- Q. The pump shaft shall rotate on two bearings. Motor bearings shall be permanently grease lubricated and have a nominal L10 lifetime of 50.000 hours. The upper bearing shall be a single

deep groove ball bearing. The lower bearing shall be a two-row angular contact bearing to compensate for axial thrust and radial forces. Single row lower bearings are not acceptable.

- R. The shaft shall be sealed by a tandem mechanical shaft seal system consisting of two seals, each having an independent spring system. The seals shall require neither maintenance nor adjustment and shall be capable of operating in either clockwise or counterclockwise direction of rotation without damage or loss of seal function.
- S. Each pump shall be provided with a lubricant chamber for the shaft sealing system. The lubricant chamber shall be designed to prevent overfilling and to provide lubricant expansion capacity. The drain and inspection plug, with positive anti-leak seal shall be easily accessible from the outside. The seal system shall not rely upon the pumped media for lubrication. Seal lubricant shall be non-hazardous.
- T. Where a seal cavity is present in the seal chamber, the area about the exterior of the lower mechanical seal in the cast iron housing shall have cast in an integral concentric spiral groove. This groove shall protect the seals by causing abrasive particulate entering the seal cavity to be forced out away from the seal due to centrifugal action.
- U. The Materials of construction shall be as follows:
  - a. Pump housing: ASTM A-48, Class 35B
  - b. Impeller and insert ring: A 532 ALLOY III A (25% Chrome)
  - c. Stator housing: ASTM A-48, Class 35B
  - d. Shaft: ASTM A479 S43100-T.
  - e. Shaft seal: Pump side: - Corrosion resistant Tungsten carbide WCCR.
  - f. Shaft seal Motor side: - Corrosion resistant Tungsten carbide WCCR.
- V. All castings must be blasted before coating. All wet surfaces are to be coated with two-pack oxyrane ester Duasolid 50. The total layer thickness should be at least 120 microns. Zink dust primer shall not be used.
- W. The motor shall be equipped with 30 feet of screened cable suitable for submersible pump applications. The power cable shall be sized according to NEC and ICEA. The outer jacket of the cable shall be oil resistant chlorinated polyethylene rubber. The cable shall be capable of continuous submergence underwater without loss of watertight integrity to a depth of 65 feet.
- X. Each completed and assembled pump/motor unit shall undergo the following factory tests at the manufacturer's plant prior to shipment. The Manufacturer shall provide on demand a copy of his quality control plan for these tests and an ISO 9001 factory certificate:
  - a. Minimum 3-point hydraulic performance test
  - b. No-Leak seal integrity test

c. Electrical integrity test

3. Replace (2) wet well 4-inch pipes with stainless steel piping and 90-degree elbows from pump connection to valve pit pipe flange connections.
4. Replace (2) vertical pump guide rails with stainless steel. Each pump shall be fitted with 50 feet of stainless-steel lifting chain or lifting cable. The working load of the lifting system shall be 50% greater than the pump unit weight.
5. Replace all supports. Replace support brackets /clamps with stainless steel and rubber bushings to support piping & pump slide rails.
6. Use stainless steel bolts, washers, and nuts to reconnect brackets, clamps, and flanges.
7. Re-seal around all pipes in concrete between wet well and valve well pits.
8. Add a new 4-inch vertical bypass pipe (sch 80 PVC) from the bottom of the wet well to extend to 6-inches above grade at the top of the wet well. Install 90-degree elbow and cam-lock connection. Install supports as required for the new pipe similar to the other pipes. This new pipe shall be used when bypass is required connecting and operating entire bypass process from grade above the pit.
9. Replace all electrical and controls related components, conduit, and wiring.

Valve pit:

All components shall be replaced with new, like-for-like materials/equipment (same material, form, fit and function) upgraded to meet current codes, unless stated otherwise in this SOW. All new materials shall be submitted for approval.

1. Replace existing (2) air release valves, (2) 4-inch check valves, and (2) 4-inch plug valves along with associate piping, fittings and supports.
2. Replace existing 4-inch piping, sleeves, fittings, and cam-lock connections, including piping leading from wet well to valve pit.
3. Replace existing 4-inch header, discharge piping, fittings and supports.
4. Replace existing 4-inch plug valve.
5. Replace existing 4-inch bypass piping leading to force main with 4-inch piping.
6. Use stainless steel bolts, washers, and nuts to reconnect brackets, clamps, and flanges.
7. Seal around all pipes in concrete between wet well and dry well pits.

8. Replace all electrical and controls related components, conduit, and wiring.

Electrical:

1. Replace all existing electrical disconnects.
2. Clean and apply (1) coat primer and (2) coats paint finish to all surfaces of electrical not being replace such as support structure for the electrical disconnects.
3. Replace all electrical and low voltage components, conduit, cabling/wiring, etc. associated with the lift station system including in the pits and control building. Replace electrical wiring from pumps to electrical panel breakers. It is not required to replace the underground electrical conduit from the lift station to the control building.
  - A. The submersible cable of the pump shall be connected to the cable from the Control panel in a floor or wall mounted cable connection box to ease the installation and disassembling of the pumps and keep the submersible cables as short as possible.
  - B. The cable connection box shall be submersible NEMA 6P (IP 68) to secure that no water can enter the motor via the cables even when the complete area is flooded.

Controls:

1. Replace entire existing integrated control system with Flygt SmartRun SRC311 Controllers 7.5hp, 460v3phase or equal. Include all wiring to be replaced. (Note: Integrated control system shall not tie into existing base wide DDC control system). It is not required to replace the underground low voltage conduit from the lift station to the control building. The controllers must incorporate a 30% energy reduction of current pumps and must combine the functionality of a VFD/drive with a simple and intuitive controller. The controller shall incorporate pump cleaning, pipe cleaning, sump cleaning, pipe scouring, water hammer reduction by intelligent soft starts and stops. The integrated variable speed control must be matched with the pumps, a combination that realizes energy savings of 30%.
2. Replace existing switches, alarm lights, and labels.
3. The pump drive shall provide all level control functionality, hand/auto operation, pump alternation, pump over temperature monitoring, seal leakage monitoring, pump self-cleaning, and pipe cleaning algorithms. The pump drive shall also include the capability to monitor station inflow, pump speed and energy consumption in order to automatically operate the pump station at optimal energy efficiency. One Pump drive per pump should be used to allow full redundancy and alternation. It shall be tested and approved in accordance with international standards, the European safety directive 98/37/EC, the Low Volt-age Directive 2006/95/EC, the EMC Directive 2004/108/EC and in accordance with the European standards: EN 61800-5-1:2003; EN 61800-3; EN 55011:2007; EN60529 and EN 60204-1.
4. The software shall be programmed with all parameters and set-tings pre-configured for an efficient operation. It shall be freestanding for wall mounting or cabinet installation construction an

equipped with an air ventilated system. It shall include provision for external communication to a higher-level system. Communication shall be via 2-wire RS-485 connection to the pump drive. Communication shall be available as MODBUS RTU. Serial communication capabilities shall include, but not be limited to set Start- and stop level, Pump clean interval, speed and ramp times as well as PID control parameters. The communication telegram shall include process variable feed-back like Sump level, power (kW), Output speed/frequency, current (A), % torque, relay outputs, digital inputs and drive status and fault information.

5. Following function shall be provided by the equipment:

1. High/Low Level Sump Control:

- a. The pump drive shall provide automatic level control via means of a submersible pressure transducer (4-20mADC). User-programmable Start Level shall indicate the point at which the pump will start. Upon activation the pump shall run at maximum speed for a pre-determined period, then ramp down to the energy efficient Optimal speed, calculated by the pump drive. When the water level reaches the Stop Level, the pump shall stop. The Optimal Speed shall either be calculated by the pump drive or manually entered by the user.
- b. In case of high inflow, the pump drive shall increase pump speed until the water level begins to decrease. When the water level reaches the Stop Level, the pump shall stop.
- c. In case of very high inflow, in a duplex installation, when a single pump is unable to overcome the inflow conditions even at maximum speed, additional pumps shall be activated and run at maximum speed until the Stop Level is reached. If water levels continue to rise, a High-Level Alarm shall be activated.
- d. The pump drive shall incorporate a Minimum Speed function that prevents the pump from operating at speeds too low to move water based on the pump curve.

2. Run Time Averaging and random start levels.

- a. The pump drive shall provide the capability to balance run times for even wear. This shall be an internal function of the drive and not require external devices, such as an alternating relay.
- b. Each drive shall determine its own random start level independent of each other. New random start levels shall be determined after each pump cycle. The pump with the lowest random start level shall be first to start on any given pump cycle. The second pump shall remain in Standby capacity in case the lead pump shall not be able to lower the water level as described in the section above. By recalculating the random start levels every pump cycle the operating hours of the pumps shall be balanced and the settling of "Grease-rings" in the station shall be avoided.

3. Pump Cleaning Function:

- a. The Pump drive shall incorporate a “self-cleaning” function to remove debris from the impeller. The cleaning shall be triggered by following circumstances:
    - Soft Clogging: When motor current is increasing over a certain period of time defined by the pump supplier.
    - Hard Clogging: When motor currents increase drastically and pump stops.
  - b. The cleaning function shall consist of forced stopping, reversal and forward runs timed to allow for debris to fall from the impeller. After cleaning cycle is complete, drive shall resume to automatic operation.
4. Sump Cleaning Function:
- a. The pump drive shall incorporate a sump cleaning function to ensure surface solids and grease is regularly removed from the sump. The sump cleaning function shall perform regularly when enabled by the operator. Sump cleaning shall consist of the following functions:
    - Sump cleaning is triggered when the internal timer expires and during a normal pump down cycle.
    - Pump is automatically ramped to maximum speed.
    - Pump runs at maximum speed for designated time or until the pump are snoring."
    - When Sump Cleaning is over, the pump is shut off and resumes normal operation.
5. Pipe Cleaning Function:
- a. pump drive shall incorporate a pipe cleaning function to avoid discharge pipe sedimentation and clogging due to reduced pump speed. This shall be an automatic feature that initiates with every pump cycle. Upon reaching Pump Start Level, the drive shall operate the pump at 100% speed for a determined time before ramping down to the most energy efficient speed for the duration of the cycle.
6. Energy efficient speed finder:
- a. The pump drive shall provide a function that automatically calculates the most energy efficient speed for the pump based on station inflow characteristics. The speed shall be constantly adjusted to account for changes of the inflow without requiring operator adjustment.
  - b. This function shall also prevent the drive from running off of the system curve and ensure the maximum hydraulic efficiency.
7. Alarms & Monitoring:

- a. The pump drive shall provide alarms and monitoring for the drive, pump and sump. Alarms shall be presented on the LCD display, via a Summary Alarm relay and via Modbus registers. All alarms, when occurring, shall remain active until reset.

Alarms shall have a built-in 4 second delay to prevent nuisance tripping.

Alarms shall be as follows:

1. Motor monitoring:
  - a. Motor Temperature too high
  - b. Leakage in stator housing
2. Sump monitoring:
  - a. High sump Level (via float switch or transducer)
  - b. transducer sensor error (connection failure, faulty values)
3. Pump drive monitoring:
  - a. overcurrent or overload trip
  - b. over- or under voltage
  - c. ambient or drive temperature too high
  - d. ambient temperature too low.
  - e. input phase loss
  - f. max torque exceeded

#### User interface

The Flygt SmartRun SRC311 5hp, 460v3 or equal pump drive shall incorporate an (OLED) LCD screen to display drive operating status, alarms, liquid level, and parameters. The pump drive shall include 7 pushbuttons with the following functions: Pump Start, Pump Stop, Hand (Manual) Operation, Auto Operation, Menu Access, Increase Value, and Decrease Value. Pump Start Level, Operating Parameter Adjustment and Alarm History shall be accessed via menu structure. Menu shall have at least 2 levels of security, limiting access to qualified personnel only. The LCD screen shall display status information in 4 modes: Off, standby, active auto and active Manual.

The information shown shall be as follows:

- OFF: Firmware name, Status ("STOP"), Rating (kW/hp)
- STANDBY: Status and Name, Operating Mode, Sump Level



Auto/Manual: Status and Name, Operating Mode, Motor Freq. Power, Sump Level, Current

#### Level control

- A. The station shall be equipped with 2 Float switches for backup level sump control approved according LVD EN61058.
- B. CSA approved according to Class I Zone 0, Gr. IIC and Div.1 Gr A, B, C&D
- C. Material of casing: Polypropylene.
- D. Degree of protection: NEMA 6.
- E. They shall be applicable for liquids with a density of 0.95 – 1.10 g/cm<sup>3</sup>. The Level control shall include 40 feet submersible cable.

#### Level transmitter

- A. Each station shall be equipped with 1 Level transmitter approved acc. EN 61000-6-2, EN 61000-6-3, EN 61326-1. It shall be approved for explosive areas according UL Class 1, 2 and 3 Division 1 Group A-D T4/T5/T6
- B. Output 4–20 mA direct current, proportional to the measured level. Low supply voltage 8–30 V DC – or battery operation.
- C. It shall be suitable for wastewater with a diaphragm made of ceramic.
- D. Insulated > 100 MΩ at 500 V DC. Material of sensor body: Ryton PPS.
- E. Degree of protection: Nema 6.
- F. The transmitter shall include 50 feet submersible cable.

#### Cabinet

1.The Monitoring & Control and the telemetry and 2 pump drives shall be assembled in a cabinet. It shall be made of 304 stainless steel.

2.Besides the Monitoring & Control unit it shall have enough space for the customer-installed telemetry equipment and include.

- 1 backup battery for the telemetry unit.
- Red-dome style flashing alarm light
- Alarm Horn or Bell with Alarm silence button.

- Intrinsically safe barrier for UL 913 requirements
- Anti-condensation heater and thermostat
- Generator receptacle and Emergency circuit breaker (walking-beam interlocked with Main breaker)
- Enclosure legs
- Power switch, which can be locked in the off position by a padlock.
- 1 light group with socket

3. The inner dimension of the cabinet shall reserve at least 10% back panel space for future adjustments.

4. All components on the front of the machine should be provided with a function plate.

#### Other Work:

1. Clean and apply (1) coat primer and (2) coats paint finish all surfaces currently painted.
2. Add grade all around outer perimeter of lift station so that water will drain away from lift station. Bring grade up to and underneath existing concrete ledge where electrical conduit penetrates. Grade and add new rock as needed.
3. Contractor shall provide controls testing and submit for approval.
4. Contractor shall provide (4) hours of lift station, controls, electrical training for operation, maintenance, and control.

#### General Requirements:

1. Contractor shall field verify all equipment and material needed to be replaced at the site visit prior to bidding.
2. All equipment, supplies and materials provided / installed shall be new and not refurbished.
3. Contractors and sub-contractors entering confined spaces on Barksdale AFB shall comply with all Base and OSHA confined space requirements. Contact 2d Bomb Wing Safety Office with any questions about these confined space requirements.
4. Contractor is responsible for pumping manholes and handholds as required.
5. Contractor shall obtain a 2 CES Digging Permit (AF Form 103) prior to beginning work, if applicable.

6. Coordinate all utility removal and outages with proper base agencies at least seven (7) business days prior to performing the work.

7. Demolition Materials: All demolition or removal of equipment or materials under this contract become property of the contractor and shall be removed completely from the Base unless indicated otherwise.

8. Inspections / Acceptance of completed work shall be required and will be based on its conformance to the contract. Nonconforming work will be rejected. The United States Air Force is not obligated to accept nonconforming work at a reduced price. The contractor shall start correction of rejected work within 10 calendar days after receipt of the rejection notice.

9. It will be the Contractor's responsibility to visit the site and become familiar with the site and include all work and equipment required in the bid. It is the Government's desire that the end result of this contract be a clean and fully restored site.

10. Upon completion of project, instruct base personnel on the location that utilities were cut off and capped for future reference, if any.

11. The contractor will be responsible for and incur all labor and material costs required to repair any damages to government facilities that occurred during and as result of demolition operations under this contract. This damage will be identified as separate from the condition of the site/equipment/facilities as identified during the initial inspection. The damage will be identified, but not limited, to the following items.

a) Government gas, water, waste, communications and electric transmission and distribution systems.

b) Adjacent occupant personal property.

c) Existing trees.

d) Roadways and Parking Areas.

#### Scheduling:

1. Contractor shall coordinate scheduled utility outages at least 7 days in advance with the contracting office and with the user prior to any interruption of utilities.

2. The contractor is responsible for coordinating work between the different crafts required to complete job.

#### Project Submittals:

1. All Mechanical, Controls and Electrical Equipment & Materials

2. Finish Colors

3. Controls & Controls Testing
4. Equipment Testing and Startup Reports

Closeout:

1. As-Built Drawings: AutoCad Latest Version & PDF, Electronic copies= (3) CD's and Hard copies= (3) 24x36 D size, (1) half size

2. Operations & Maintenance Manuals for all new Equipment, Materials and Controls. A. Electronic copies= (3) CD's and Hard copies= (3) 8.5x11 per below

B. Organize operation and maintenance manuals into suitable sets of manageable size. Bind and index data in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, with pocket inside the covers to receive folded oversized sheets. Identify each binder on front and spine with the printed title "OPERATION AND MAINTENANCE MANUAL," Project name, and subject matter of contents.

3. Warranty Letter(s)

Additional Information

1. The contractor will begin work not earlier than 7:30 am each workday. Work will not be performed later than 6:00 pm.

2. Inspections will be conducted by the Contracting Officer and /or Contracting Officer's Representative and the contractor's manager.

3. All discrepancies, if any, will be properly annotated.

**Lay-down Area Temporary Fencing**

1. The Contractor shall furnish all labor, materials, and equipment necessary to provide secure and visually aesthetic temporary fencing for surrounding project equipment and material in lay-down areas.

Work shall include:

- a. Clearing area of all encumbrances to safe erection of fencing.
- b. Provide fence that is: metal tube frame; metal woven wire mesh (minimum 11 gauge); minimum 6 feet In height.
- c. Provide integral to fence visual blocking material, either slat weave or sheet goods.
- d. Erecting fence in such manner as to prevent loss of fencing or blocking due to inclement weather.

- e. At no time shall fence interfere with fire egress paths or fire equipment ingress, to include periods when gates are in operation.

Contractor shall submit cut sheets on all items for installation, prior to procurement, for approval by the C.E. Architect. Complete the design as indicated on drawings in accordance with UFC 1-200-01 General Building Requirements which includes the latest editions of the International Building Code and NFPA Life Safety Code, and Americans with Disabilities Act. All required work shall be accomplished in accordance with the Barksdale AFB Design Compatibility Guidelines (DCG). All colors and materials shall be selected by the Civil Engineer Architect in accordance with the DCG. Construction shall be conducted in a quality workmanlike manner. Contractor shall take any steps necessary to protect government and occupant property from damage caused by weather or other occurrence while work is in progress.

2. Upon notification of completion by the contractor a determination will be made as to the satisfactory completion and acceptance of the contract specification(s). Any segment of the operation that is not acceptable because of an unsightly or unprofessional appearance will be justification for rejection of the treatment. The contractor will incur all costs, both labor and materials, for reaccomplishment of any unacceptable work identified.

3. The contractor will be responsible for and incur any and all labor and material costs required to repair any damages to government facilities that occurred during and as result of repair work, replacement operations, or new work, under this contract. This damage will be identified as separate from the condition of the facilities as identified during the initial inspection. The damage will be identified, but not limited, to the following items.

- a. Government gas, water and electric transmission and distribution systems
- b. Occupant personal property

#### **Additional Information**

- a. The contractor will begin work not earlier than 7:00 am each workday. Work will not be performed later than 4:30 pm.
- b. Inspections will be conducted by the Contracting Officer and /or Contracting Officer's Representative and the Contractor's Manager.
- c. Any discrepancies should be noted and forwarded to the Architect.

Background Checks for Contractor Personnel Requiring Entry/Access to Barksdale AFB (Jan 2005)  
Security Forces will conduct a National Crime and Information Center (NCIC) background check on all contractor or subcontractor personnel prior to granting access to the installation.

### **CONSTRUCTION AND DEMOLITION DEBRIS REPORTS**

The following requirement is listed in Attachment 2, Environmental Requirements for Contractors Working on Barksdale Air Force Base. These reports are required to be submitted on an AF 3000 Material Submittal and should be incorporated into the AF66 Material Submittal Schedule at time of contract award. Final payment will not be released until C&D reports have been submitted and accepted by the Government. "Construction and Demolition (C&D) debris is generated as a result of construction, renovation, or demolition activities. Although C&D debris is usually considered a single waste stream, the composition actually varies with each activity and the type, size, and location of the structures involved. Disposing of C&D debris in landfills consumes enormous amounts of space and is both economically and environmentally costly. In accordance with AFI 32-7042 and BAFB's Integrated Solid Waste Management Plan (ISWMP), ALL WEIGHTS OF C&D MATERIALS RECYCLED AND DISPOSED MUST BE REPORTED TO THE RECYCLE PROGRAM MANAGER."

### **CONTRACT COMPLETION INSPECTIONS**

The contractor will schedule (preferably with 3 working days' notice) a pre-completion inspection to be held approximately 10 calendar days prior to the expiration of the contract. This inspection may result in a "punch list" indicating items to be furnished or work to be completed by the contractor or subcontractors in order to complete the work specified in the contract documents. This list may not be construed to be all inclusive. A copy of the list will be furnished to the contractor within 2 workdays for his use in completing the contractual work. If the pre-completion inspection results in no "punch list" and the work is complete, this inspection may be considered the "final" inspection as determined by the Contracting Officer. If required, the contractor will be responsible for scheduling the contract completion inspection (preferably with 3 working days' notice) to be held no later than the final day of contract performance. Should this inspection result in a "punchlist", the contractor will have 10 calendar days (after receipt of punchlist) to complete all punchlist items and notify the Contracting Officer of this. NO FINAL INVOICE SHALL BE PAID UNTIL ALL PUNCHLIST ITEMS ARE COMPLETED TO THE SATISFACTION OF THE CONTRACTING OFFICER. Should a contractor exceed the time allowed for these corrections, it may result in negative past performance which could affect future contract awards.

### **PERFORMANCE INFORMATION**

NOTICE TO PROCEED will be issued within 30 calendar days after award of contract. Award date shall be established as the date of mailing or otherwise furnishing a properly executed award document to the successful offeror.

### **WORK SCHEDULE**

Working hours for the contractor will normally be between the hours of 7:00 a.m. and 4:30 p.m. excluding Saturdays, Sundays, and Federal Holidays (New Year's Day, Birthday of Martin Luther King, Jr., Presidents Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day and Christmas Day). If the contractor desires to work during periods other than above, additional government inspection forces may be required. The contractor must notify the contracting officer three days in advance of his/her intention to work during other periods to allow assignment of additional inspection forces when the contracting officer determines they are reasonably available. If such force is reasonably available, the contracting officer may authorize the contractor to perform work during periods other than normal duty hours/days, however, if inspections are required to perform in excess of their normal duty hours/days solely for the benefit of the contractor, the actual cost of inspection at overtime rates will be charged to the contractor. These adjustments to the contract price may be made periodically as directed by the contracting officer.

### **DELIVERY TIME**

The period of performance on this project will be 60 Calendar days from the Notice to Proceed (NTP) date.

### **End of Statement of Work**