

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**

**SECTION 1**

**General**

TP-1.0 PURPOSE: To provide for the maintenance, repair, and operations of facilities, vehicles, and equipment on the \*\*\*\*\* Project as specified in Section C.

TP-1.1 Table of Technical Provisions:

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TP-1.2        **Scope of Work.** The contractor shall provide all planning, programming, administration, management, supervision, maintenance of accurate and complete records and files, quality control inspection, personnel, materials, supplies, parts, tools, equipment and vehicles, except as otherwise provided for herein, necessary to operate and maintain Government-owned facilities and equipment at \*\*\*\*\* Project. Work under this contract shall be performed under the general direction of the Authorized Representative of the Contracting Officer (ARCO). The contractor shall assure that all services are conducted in accordance with the contract and all applicable laws, regulations, codes, or directives. Performance shall be in accordance with all Terms, Conditions, General, Specific and Technical Provisions, Drawings, Attachments, Exhibits, etc., contained herein or incorporated by reference. Incorporation by reference shall include any and all mandatory provisions required by the Federal Acquisition Regulation (FAR), whether it is referenced or not, current at the time of contract award.

Estimated quantities and the work to be performed is described herein and listed on separate sheets as Exhibits. These quantities are approximate and are provided as information only to assist in preparation of proposals. They are not guaranteed and the actual quantities may be more or less than shown. Variation in these estimated quantities shall not be justification for modification of the contract or request for additional payment.

TP-1.3        **Location of Work Sites:** see appendix ?? (Information unique to the Project)

TP-1.4        **Applicable Documents and References.** The contractor shall perform in accordance with the latest edition of the following individual standards and codes, manuals, and other documents:

- a. ER 1130-2-540 - "Environmental Stewardship Operations and Maintenance Policies
- b. EP 1130-2-540 - "Environmental Stewardship and Maintenance Guidance and Procedures" Management Outdoor Recreation at Civil Works Water Resource Projects"
- : c. ER 1130-2-550 - "Recreation Operations and Maintenance Policies
- d. EP 1130-2-550 - "Recreation Operations and Maintenance Guidance and Procedures"

- e. EM 385-1-1 - "Safety and Health Requirements Manual", revised Oct 1992
- f. ER 700-1-1 - USACE "Supply Policies and Procedures"
- g. EP 1165-2-316 - "Rules and Regulations Governing Public Use of Corps of Engineers Water Resource Development Project"
- h. U. S. Army Corps of Engineers' Sign Standards Manual EP 310-1 6a and EP 310-1 6b
- i. CFR Title 36 - Code of Federal Regulations
- j. PM-01 - PM-07 - Mobile District Pesticide Management Guidelines
- k. Occupational Safety and Health Act (OSHA) current provisions
- l. Underwriter's Laboratories, Inc.
  - National Electrical Code
  - National Warm Air and Air Conditioning Association
  - National Association of Fan Manufacturers
  - National Fire Protection Association
  - American Society of Heating, Air Conditioning and Refrigeration Institution
  - Sheet Metal Manufacturers
  - Air Moving and Conditioning Association
  - American Society of Heating, Refrigeration and Air Conditioning Engineers
  - American Welding Society
  - American National Standards Institute
  - American Concrete Institute
  - Portland Cement Associates
  - Asphalt Institute
  - American Institute of Steel Construction
  - National Association of Architectural Metal Manufacturers
  - National Plumbing Standards Code Illustrated
  - Architectural Aluminum Manufacturers Association
  - The Aluminum Association
  - American Society for Testing and Materials
  - Flat Glass Marketing Association
  - American Association of Nurserymen, Inc.
  - Architectural Graphic Standards
  - Consumer Product Safety Commission's
  - Public Playground Safety Guideline, Vols. I & II
  - Southern Building Code
- m. Equipment Manufacturer's Repair Operating and Maintenance Manuals.

TP-1.5            **Other Contracts.** The Government may award contracts for additional or similar work. The contractor shall cooperate with such other contractors and Government employees, as directed by the Authorized Representative of the Contracting Officer (ARCO). The contractor shall not commit or permit any act of interference in the performance of other contractors or Government forces.

TP-1.6            **Contractor's Facilities:** *see exhibit XX*

TP-1.7            **Government Furnished Equipment:** The Government will furnish equipment for use in accomplishing contract requirements. Some equipment may be procured by the contractor under his normal procurement procedures and will remain the property of the Government upon completion of the contract. Appendix "A" contains a list of equipment that will be furnished by the Government. It also contains a list of equipment retained by the Government that may be shared with the contractor. In the event an item is required that is not on this list, the contractor shall obtain prior permission before renting or otherwise acquiring such equipment. When equipment and vehicles are shared between the contractor and the Government, the loan will be documented by the execution of a hand receipt.

TP-1.7.1            **Compliance Document:** SAMDR 735-1-1

*TP-1.7.2            The contractor shall designate (in writing) a Contractor Property Officer (CPO) responsible for Government Furnished Property (GFP) issued to the contractor, to maintain accountability and record keeping. This individual shall be a management official or contractor hire directly reportable to a management official of the contractor, and may be assigned other duties by the contractor.*

*TP-1.7.3            The CPO participates in pre-work conferences to ensure proper orientation in the importance of property accountability as an integral part of performing the overall contract requirements. The contractor's security plan shall be discussed and approved during the pre-work conference.*

*TP-1.7.4            At the start of work, the CPO formally accepts all Government property as listed in the contract. The CPO's signature is obtained, along with the signature of the ARCO, on all subsequent transaction documents affecting accountability of GFP.*

*TP-1.7.5            The CPO shall ensure that all contract personnel are aware of the responsibility to be good stewards of Government property entrusted to them. Property that is portable and easily pilfered is included in the property inventory listing. These items are controlled, regardless of dollar value. Examples of controlled equipment are hand and power tools, battery chargers, portable typewriters and computers, binoculars, cameras, portable radios, etc.*

*TP-1.7.6            The CPO shall notify the ARCO immediately upon discovery of any Government furnished equipment that is lost, stolen, or damaged while in contractor possession. The ARCO will ensure that the appropriate reports are prepared and forwarded to the Contracting Officer for determinations of liability and adjustment of property accounting records.*

TP-1.8            **Government Furnished Materials and Supplies:** This Project has on-going operation and maintenance programs; therefore a certain amount of materials and supplies are on hand and will be provided to the contractor. Supplies shall be inventoried within 30 days of contract award. The contractor is responsible for the storage, usage, and replenishment of these items throughout the contract period.

TP-1.9           **Major Purchases:** Major repair parts and property purchases with an acquisition cost more than \$1,500 per line item shall be submitted to the ARCO on separate lists for approval before purchase. After approval, these parts shall be procured locally, for immediate installation. The contractor shall be required to pick up these parts if the vendor cannot deliver by the time required. In the event emergency repair parts are required, and it is not possible to obtain advance procurement approval from the ARCO, the contractor shall be authorized to obtain those parts necessary to effect immediate repair in order to protect personnel or property and submit complete documentation after-the-fact. The cost of these repair parts will be directly reimbursable in the same manner as materials and supplies. All items regardless of cost, which will become accountable property items must be submitted to the ARCO for approval prior to purchase.

TP-1.10           **Identification of Contractor Employees and Vehicles:** The contractor shall provide his employees uniforms approved by the ARCO within 30 days of contract award. Company identification shall be a patch on the breast pocket or left shoulder. Uniforms shall also be provided to subcontractors working on the project full time. Vehicles and equipment shall be identified with the company name or logo *with decals or magnetic signs*.

TP-1.11           **Material, Equipment and Spare Parts:** The contractor shall submit to the Project Manager within 30 days following award of this contract, a list of recommended material, supplies, spare and replacement parts, required to operate and maintain the various systems under the scope of this contract.

TP-1.12           **Communication:** The contractor shall furnish telephone service and sufficient telephones to provide adequate telephone communications. *Radio or cellular telephone* communication between the Corps and the contractor's superintendent shall be provided by the contractor.

TP-1.13           **Consolidation:** The \*\*\*\*\*Project is continually undergoing renovation and consolidation of recreation areas, which could cause the temporary or permanent closing of some public use areas or the increase, decrease, or alteration of facilities. The contractor's work schedule shall be flexible in order to meet these changing requirements.

TP-1.14           **Safeguarding Government Property:** The contractor shall cooperate with Government personnel in safeguarding Government property. The contractor shall be responsible for reporting to the ARCO and appropriate local law enforcement agencies all acts of vandalism, larceny, pilferage, or other damage. Reports shall be made within 24-hours after discovery. Notification may be by telephone or radio, with follow-up in writing.

TP-1.15            **Superintendent:** The contractor shall act as, or provide a competent superintendent on site at all times who is knowledgeable of this contract's budgetary and personnel allocations. The superintendent shall conduct overall management coordination and be the point-of-contact with the Government for performance of all work under this contract. The superintendent shall possess authority to act on behalf of the contractor. Such authorization shall be submitted to the ARCO in writing prior to commencement of work.

TP-1.16            **Minimum Personnel Qualifications:** Service mechanics, technicians, and consultants shall have the education or experience to enable them to comprehensively understand the systems and components to be operated, maintained, and repaired under these specifications. Only trained and qualified employees shall be used in performance of this contract. Employees shall be subject to Government regulations during time spent on Government property. Subcontractors may be utilized to perform highly specialized or infrequent repair work.

TP-1.17            **Removal of Contractor's Employees:** The CO or ARCO may require the immediate removal of any contractor employee who is objectionable, incompetent, or endangers persons (including themselves) or property, or whose physical or mental condition is such that it would impair the employee's ability to satisfactorily perform the work. Notification for removal will be in writing. However, notification may be made by telephone, and later confirmed in writing if time and circumstances warrant. The contractor shall take immediate action to replace any dismissed employee. Personnel changes, regardless of cause, will not reduce the contractor's obligation to perform work in accordance with contract specifications.

TP-1.18            **Minimum Manpower Requirements:** The contractor shall provide an adequate staff of qualified personnel for the operation and maintenance of Government-owned facilities and equipment at the Project according to contract specifications.

TP-1.19            **Emergency Repairs and Services:** The contractor shall furnish, and keep current, a list of personnel to contact in the event emergency repairs or services become necessary. A minimum number of personnel required to meet contract requirements and handle emergency situations must be available on call 24 hours a day, 7 days a week. The ARCO will be kept informed of persons on call. Establishment of a written policy and procedure for responding to emergency repairs is required. The contractor shall ensure contact can be made with these people either by telephone, radio or other means, within one hour. Appropriate response shall take place within two hours after notification.

TP-1.20            **Interruptions to System:** Advance approval shall be obtained before beginning work that would interrupt the use of project facilities or systems, or disrupt building occupants or the visiting public.

TP-1.21 **Inclement Weather and Holiday Work**: The contractor shall maintain the schedule of services despite inclement weather. Exceptions will be approved by the ARCO when severe conditions make it impracticable or hazardous to perform the work. During the recreation season, between *1 May through 15 Sep*, certain services may be required 7 days a week including holidays.

TP-1.22 **Schedules**: The contractor shall submit an annual plan for routine maintenance covered by these specifications. This annual work plan shall be updated quarterly to reflect actual performance and reschedule work items not accomplished as scheduled. In addition, the contractor shall prepare weekly schedules detailing planned activities. Weekly schedules shall be submitted to the ARCO one week prior to commencement of activity. All weekly schedules shall be updated to reflect actual work performed and presented to the ARCO within five days after performance. Annual schedules shall be updated within 15 days of the end of each quarter. A monthly summary of actual work accomplishments shall be submitted to the ARCO by the 10th of the month following performance of the tasks.

TP-1.23 **Incidental Work**: Work incidental or related to contract work items, but not specifically identified or described in each section, shall be required of the contractor. This minor and non-recurring repair work shall be accomplished by the existing work force utilizing existing equipment.

TP-1.24 **Improvement or Modification**: An improvement or modification is defined as any change to the original design of a building or structure or installed system. Improvements and modifications shall be governed by the procedures and limitations outlined below for major repairs. Minor modifications or improvements may be required during the contract period to reduce maintenance requirements. Any proposed improvement or modifications shall be approved by the ARCO prior to initiation and will not exceed \$2,000. The contractor may be required to make restoration for unauthorized improvements or modifications.

TP-1.25 **Major Repairs**: Major repairs are those estimated to be in excess of \$2,500, with the exception of Technical Provision Sections 10 and 13, and are beyond the scope of this contract. When the contractor determines that major repairs are required, it should be promptly reported to the ARCO. Major repairs will normally be accomplished by another contract or purchase order after soliciting competitive offers, but may be added to this contract as an administrative convenience if this contractor submits the lowest offer.

TP-1.26 **Public Safety**: The contractor is responsible for safeguarding work sites in parks and public recreation areas. Appropriate signs, warning devices, and barriers shall be used to protect the public, contractor employees and Government employees.

TP-1.27            **Records and Cost Schedule Plan**: The contractor shall have a Cost Schedule Plan with a work breakdown structure of anticipated cost estimates incurred for each TP for each month of the contract. The Plan shall be updated monthly. Daily written records shall be maintained for all maintenance, repair, and operation activities. The contractor shall keep accurate and complete records of these costs by proper cost codes and provide to ARCO monthly. Cost data for each activity shall be maintained and is subject to Government audit. This cost data shall include labor (in hours and dollar value), supplies, materials, or parts costs for each separate scheduled work task.

TP-1.28            **Pre-Work Conference**: The contractor shall attend a pre-work conference at which the ARCO will establish the line of authority and Government procedures for contractual, administrative, and work matters. The schedule of required submittals and reports will also be discussed.

a. **Contractor Items**: The contractor shall submit, in completed form, the following items:

- (1) Certificate of Insurance
- (2) Letter of Authority for the Superintendent
- (3) Letter(s) Appointing Quality Control Personnel

b. A letter of record, documenting pre-work conference discussions will be furnished to attendees.

TP-1.29            The contractor shall furnish separate operation plans for the following along with the bid proposal.

- a. Quality Control Plan
- b. Accident Prevention/Hazardous Analysis Plan
- c. Inventory Management and Control Plan
- d. Purchasing Plan
- e. Subcontracting Plan
- f. *Pest Control Plan* (see TP9.4)
- g. Security Plan for key control, bulk fuel, equipment, materials, supplies, small tools, etc.

The above shall be in final draft format and will be part of the Management Evaluation. The Government reserves the right through a coordinated effort with the successful offeror to assist in final revisions before approval of the plan(s) after contract award.

PART I - THE SCHEDULE

SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**

**SECTION 2**

**Buildings, Structures, Facilities, Mechanical, Electrical, Plumbing, Sewage Treatment, Water Treatment and Distribution, and Disposal Systems**

TP-2.0           **Scope of Work:** The complete maintenance and repair of all project buildings and structures, including mechanical, electrical, water, plumbing, water treatment, distribution, and sewage disposal systems. Services necessary to keep these facilities in a safe, neat, attractive and well maintained condition include lubrication, refastening, refitting, replacing and repairing roofs, walls, ceilings, floors, ceramic tile, windows, sky lights, vents, doors, trim, paint, partitions, building hardware and fixtures. Reference Appendix “?”.

TP-2.1           **Buildings and Structures :** Maintenance and repair includes, but is not limited to, the Project Management Office, visitor center, powerhouse, operations and maintenance buildings, gatehouses, rest rooms, shower washhouses, well houses, storage buildings, shelters. Maintenance and repairs shall be timely and in accordance with applicable industry standards and codes referenced in TP-1.2 and include all items, interior and exterior. Minor modifications to reduce maintenance efforts are occasionally necessary. *NOTE: Most outbuildings have asbestos containing materials (ACM). The ACM (Type 3) is in the form of non-friable cementitious ceiling tiles. Personnel performing custodial, maintenance, and inspection activities in these structures shall receive EPA Level 1 training. Personnel performing small scale repair, removal, or debris cleanup, usually as a result of vandalism, shall receive EPA Level 2 training.*

TP-2.2           **Other Facilities:** Maintenance and repair shall include, but is not limited to, gates, sanitary disposal stations, playgrounds, play apparatus, game court equipment, bulletin boards, campsites, picnic sites, bulkheads, steps, walkways, pedestrian bridges, courtesy docks, fishing decks, curbs, tables, grills, security fences, guardrails, trail markers, etc. Maintenance, repair or replacement of project structures is necessary to keep them in safe working condition.

TP-2.3           **Mechanical, Electrical, Water Treatment & Distribution, and Disposal Systems:** These items consist of heating, cooling, ventilating, electrical, water, and disposal systems at various recreational and operational locations, and the Project Management Office. This includes washers and dryers located in campgrounds.

TP-2.3.1       **Heating, Air Conditioning, and Ventilation Systems:** Maintain equipment according to manufacturer’s recommendations. Repair or replace parts or components as necessary.

TP-2.3.2       **Electrical Systems:** Maintenance includes replacement or repair of damaged, broken or malfunctioning electrical systems or components, broken wires, breakers, panel boxes, pump controls, photoelectric cells, exterior and interior lighting, heating

elements and fixtures, switches, fuses, outlets, bulbs, underground wiring, timers, burglar and fire alarm systems.

TP-2.3.3        **Water Systems:** All work under this section shall be in accordance with the applicable State Rules for Safe Drinking Water. This contract includes repair or replacement of damaged, broken, or malfunctioning water mains, storage tanks, valves, vacuum breakers, outlets and faucets, interior building plumbing, irrigation systems, underground water lines, water meters, pressure reducing valves, pressure relief valves, fittings, pumps, chlorinators, fountains, and casings. The contractor shall winterize systems to prevent damage to components and restore to operation after winter season. Restore disturbed areas to their original conditions, including the establishment of grass, using approved cultivation procedures. Water systems entered for repairs shall be sterilized before reuse. Operation of chlorinators is required on all well water systems to maintain an acceptable level of purity. Check these systems periodically to ensure their proper operation and maintenance in accordance with the manufacturer's specifications.

TP-2.3.4.1        **Water System Sampling:** *Perform periodic sampling of public water systems in accordance with applicable State regulations. Samples shall be taken as specified by the appropriate State guidelines and delivered to an approved laboratory for testing. Results of test shall be furnished to the appropriate State agency with a copy furnished to the ARCO. Samples that fail shall be retaken per State guidelines. Chlorination of hand pump water systems shall be performed to reduce bacteria levels and meet State requirements. Failure to follow applicable guidelines may result in punitive action by the State.*

TP-2.3.5        **Disposal Systems:** Repair or replace sewage lines, drain fields, valves, septic tanks, distribution boxes, lift pumps, pump controls, fixtures, and hardware. Clean and pump out septic tanks, distribution boxes, sewage lines, field lines, dump stations and holding tanks. Material removed shall be disposed of at an approved site outside the project limits. Permits, permission, and fees for disposal are the responsibility of the contractor.

TP-2.3.6        **Playgrounds:** Conduct scheduled inspections during the active use season to detect and repair damages from vandalism or unsafe conditions. Remove any debris from the sand, rake the sand to maintain a uniform depth and place additional sand in the impact areas, as necessary. In areas where there is no sand, remove debris from the immediate vicinity of the structures. Inspect play equipment from top to bottom for wear, structural integrity, and parts replacement. Make immediate follow up repairs of discrepancies revealed. Furnish copies of the findings and repairs, no matter how small, to the ARCO monthly.

TP-2.3.7        **Records**: The contractor shall provide accurate and complete as-built drawings of any changes occurring as a result of modification, maintenance, or repair to buildings, structures, facilities, or systems. These drawings shall be of the same quality as, and compatible with, original drawings. Drawing changes are to be furnished within 30 days of completion of the repairs or modifications.

TP-2.3.8        **Equipment History**: The contractor shall provide a preventive maintenance and repair card and maintenance folder for each item of operational equipment. The card shall provide, as a minimum, the manufacturer's nameplate data and the recommended maintenance procedures.

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**TECHNICAL PROVISIONS**  
**SECTION 3**  
**Cleaning, Custodial Services, and Refuse Removal**

TP-3.0 **Scope of Work:** Schedule and perform cleaning, custodial services and refuse removal from project facilities and public use areas. (Appendix B)

TP-3.1 **Sanitary Facilities (Waterborne Toilets, Camper Washhouses, and Pit Toilets):** The contractor shall ensure that all facilities are clean, free of objectionable odors, and contain adequate supplies. Towels and soap are not furnished in pit toilets.

TP-3.1.1 Inspect, deodorize, and clean all inside surfaces. Recently cleaned surfaces shall be dried before use of the facility by the public. Remove all insects, insect nests, and webs, from interior and exterior of the facility. All interior areas subject to wet or damp conditions shall be kept free of mold, mildew, fungi or other biological formations.

TP-3.1.2 Furnish and distribute roll toilet tissue, paper towels, and hand soap as needed. These items will be furnished in such manner as to provide a continuous, uninterrupted supply to the public.

TP-3.1.3 In conjunction with cleaning of the building, all outside grounds and facilities associated with the building shall be cleaned. Remove any graffiti that can be removed with commercially available cleansers or repaint if necessary.

TP-3.1.4 Furnish and install chemicals in chemical toilets. Inspect the chemical levels during routine cleaning operations and recharge as necessary. When use requires temporary facilities, transport chemical toilets and place in operation. *At present there are ??chemical toilets on the project.*

TP-3.2 **Impact Sites (Picnic Sites, Campsites, Picnic Shelters):** Clean tables, including seats, tops, and concrete base slabs. Clean all adjacent grounds and facilities of all litter. Rake, level and replenish screenings in impact areas as necessary. Remove all vegetation, living and dead, from inside the impact area.

TP-3.3 **Grills and Fire Rings:** Remove charcoal, ashes and other burnt material and debris from the grills and from within 20 feet of the grill and dispose of off-site. Hot ashes shall be contained in an OSHA approved safety can to prevent spillage and fire. Clean grill cooking surface as needed *between 1 Apr and 1 Nov.*

TP-3.4 **Garbage Cans:** Remove the contents of garbage cans. Cans shall be cleaned by pressure washing and scrubbing to prevent unpleasant odors. Approved insecticides shall be applied for insect control in, on, and around garbage cans. Can liners are to be used. Advise the ARCO promptly when any household or other off-project generated garbage or debris is found at project areas.

TP-3.5 **Removal of Litter From Public Use Areas, (Ramps, Beaches, Playgrounds, Roads, and Parking Areas)**: Pick up trash, paper, can, bottles, tree limbs, dead fish, animal carcasses, driftwood, etc. and dispose of at authorized dumping areas. This work shall also be accomplished in hard-to-reach areas such as, steep slopes, riprap areas and to the water's edge. Beaches and water's edge areas will be kept cleaned of vegetation, debris, glass, pop tops, cigarette butts, glass, trash, and litter.

TP-3.6 **Removal of Litter and Debris from Shoreline Areas**: Pick up trash, paper, bottles, cans, animal carcasses, tires, and other material from Government-owned shoreline areas as directed by the ARCO. Perform this work during low water periods which usually occur in the fall of the year. This work is outside the developed recreation areas along undeveloped and heavily used shoreline. Sites will be designated by the ARCO and require approximately 400 man-hours per year. In addition, the contractor shall provide garbage and debris removal in support of the annual project lakeshore cleanup campaign. This involves the removal of bagged debris and various boat ramp areas around the project.

TP-3.6.1 **Removal of Litter and Debris from Bridge Crossing Areas**: *Pick up all trash, paper, bottles, cans, animal carcasses, tires and any other undesirable material from shoreline areas monthly and dispose of off-site. These areas are outside developed recreation areas and require approximately 500 man-hours per year.*

TP-3.7 **Sanitary Dump Stations, Well Pumps and Drains**: Clean concrete slabs, wooden and metal surfaces. Unstop drains, pump holding tanks and disinfect as required.

TP-3.8 **Fish Cleaning Stations**: Clean concrete slabs, fish cleaning surfaces, wooden and metal surfaces, remove material from trough and garbage disposal and flush. Replace inoperable light bulbs. Pump holding tank when necessary. Disinfect all surfaces and containers as needed to prevent objectionable odors.

TP-3.9 **Fishing Decks, Boat Docks, Boathouses**: Clean concrete slabs, wooden decks, rails, walkways, benches, steps and sidewalks. Remove all litter and refuse.

TP-3.10 **Dumpster Service**: *Dumpsters will be at least 6 cubic yards capacity and provided in locations shown in **Appendix (???)**. The number required at each location is also shown. Dumpsters shall be in good condition with a good paint job. Trash bags within 20 feet of the dumpster shall be placed in the dumpster after emptying. Refuse from other PUA's will not be placed in dumpsters except as authorized by the ARCO. Dumpsters will be emptied as frequently as needed to keep trash from overflowing.*

TP-3.10.1 **Recycling Station Dumpsters**: *Remove refuse from recycling station dumpsters frequently enough to prevent buildup of garbage and offensive container odors during the period 1 Mar through 30 Sep. All debris or residue shall be removed from around containers within a 10-foot radius.*

TP-3.11 **Operations Area Buildings and O&M Shop Building**: Keep buildings clean, in proper working order, and free of objectionable odors. All inside and outside surfaces shall be cleaned. Trash cans shall be emptied, cleaned and disinfected.

TP-3-12            **Picnic Shelters:** Clean all structures. All outside grounds and facilities associated with the shelter shall be cleaned to the water's edge. The contractor will be notified when shelters are reserved by the public and shall ensure that the shelter and adjacent areas are adequately cleaned prior to the scheduled arrival of the reservation holder.

TP-3.13            **Trails:** Remove litter and trash at least weekly. Inspect and clean all facilities weekly or as directed by the ARCO.

TP-3.14            **Primitive Boat-in Sites:** Clean tables including the seats, tops and base slabs monthly during the recreation season. This includes removing grease and other stains from tables and slabs. Natural debris such as leaves, limbs, twigs, and tree branches shall be removed to an area approved by the ARCO. Pit toilets shall be cleaned weekly during the recreation season and monthly at other times. Remove insects, insect nests and webs and other debris from the facilities. Clean grill cooking surfaces. Remove charcoal and other burnt material from the grills and within 20 feet of the grill and dispose of off-site. Hot ashes shall be contained in an OSHA approved safety can to prevent spillage and fire. All trash, paper, bottles, cans, organic remains, and other debris shall be picked up and removed to an authorized dumping area. These sites are located on various areas of the lake and are accessible only by boat. A boat suitable to perform this work will be provided on an "as needed" basis.

TP-3.15            **Project Management Office:** Provide cleaning services as necessary. This facility includes approximately \*\*\*\*\* square feet of floor space with carpet and tile floors which requires cleaning or vacuuming and periodic stain removal. The numerous exhibits in the Visitors' Center portion of the building also require cleaning. This complex contains extensive plate glass doors and windows. Perform cleaning services at a time and in such a manner to minimize the impact on the staff and visitors. Special uses or requirements or unusually heavy use may require additional cleaning. The cleaning schedule shall be adequate to maintain an acceptable professional appearance in and around the complex. The proposed schedule shall be submitted for ARCO approval prior to beginning work and before changing to another schedule. The services shall include, but not be limited to the following guide:

TP-3.15.1            **Frequent Requirements:**

- a. Empty and clean trash receptacles
- b. Dust furniture and machines, wax if needed
- c. Sweep, mop or vacuum floors (includes patio and entrance areas)
- d. Inspect area (inside and out) for insect nests and webs and remove
- e. Police around building.
- f. Clean and maintain rest rooms, replace toilet tissue, soap and paper towels.

TP-3.15.2            **Less Frequent Requirements:**

- a. Wax tile floors and clean carpet
- b. Clean windows and blinds.
- c. Mow and trim grassed areas during growing season.
- d. Clean light fixtures and replace inoperable bulbs
- e. Water and fertilize live ornamental plants and remove dust from leaves.



TP-3.19.3 **AREA 3:**

- a. Elevator Equipment Room (EL 664.00)
- b. Diesel Engine Room (EL 652.75)
- c. Unit #1 Service Floor, Switchgear Room, Fan Room #2, Station Service Pump Room (EL 582.00)
- d. Unit #1 Generator and Pump Room, Cable Spreading Area, Equipment Area (EL 567.00) Mechanical
- e. #1 Spiral Case Access Gallery, Valve Room (EL 553.00)
- f. Draft Tube Access Gallery (EL 541.00)
- g. Tops of Generators

TP-3.19.4 **AREA 4:**

- a. Main Generator #2 and #3 Turbine Floor, (EL 582.0)
- b. Main Unit Spiral Case Mandoor Areas and Stairs (Off EL 567.00), Skimmer Gate Equipment Room, Cable Hallway and High Pressure Oil Equipment Room (EL 641.50)
- c. Scrub Floors (EL 582.00, EL 567.00 and EL 641.50)

TP-3.19.5 **AREA 5:**

- a. Grouting Gallery in Dam (EL 535.00)
- b. Refuse Removal
- c. Sweep Floors
- d. Clean Drainage Ditches
- e. Wash Down with Water Hose

TP-3.19.6 **SPECIAL CLEANING:**

- a. Glass Walls and Windows (EL 622.25 and EL 617.00)
- b. Door Glasses (throughout building)
- c. Masonry Walls (throughout building)

TP-3.19.7 **Frequent Requirements - Area 1 (Mon, Wed & Fri):**

- a. Sweep, dust mop or vacuum all floors in area #1.
- b. Clean all handrails in area #1.
- c. Empty all ashtrays and wipe out
- d. Dust furniture
- e. Clean kitchen appliances
- f. Mop and scrub the toilet areas, clean all fixtures, mirror and shelves. Provide approved deodorizers and adequate toilet tissue, paper towels and soap.
- g. Empty trash cans, replace liners and remove refuse.
- h. Once each week, damp mop floors in Area #1. Clean floors and stairs by sweeping and dust mopping in Area #2. Clean and polish drinking fountains in all areas.
- i. Damp mop all floors in Area 2 once each week on Wednesday.

TP-3.19.8 **Less Frequent Requirements - Areas 1, 2, 3, 4, and 5**

- a. Strip and re-wax floors, baseboards and stairs quarterly, with wax product that requires no buffing approved by the ARCO. Waste water with wax stripper and wax residue shall not

*be disposed of in the powerhouse drainage system. Waste water shall be properly disposed of in accordance with EPA standards.*

- b. Clean dirt or marks from walls and door frames in all areas monthly.*
- c. Clean door glasses and glass walls monthly, windows are approximately 27' above the floor.*
- d. Scrub showers in the men's locker room, elevation 582.0 monthly to remove all mold, soap and buildup of other foreign matter from walls and floor tile.*
- e. Wet mop floors and stairs and clean handrails in Areas 2 monthly.*
- f. Clean floors and stairs in Area 3 monthly by sweeping and dust mopping. These areas shall be swept and wet mopped quarterly. When cleaning the top of the generators, only a wet squeezed mop shall be used. No liquid containers shall be allowed on top of generator.*
- g. Clean floors in Area 4 monthly by sweeping and damp mopping. Scrub floors quarterly.*
- h. Sweep floors and clean out drainage ditches in Area #5, remove refuse, and wash down with water hose.*
- i. Wash and disinfect all type waste receptacles once each month.*

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**  
**SECTION 4**  
**Grass Mowing and Trail Maintenance**

TP-4.0 **Scope of Work:** Mow and trim grass in designated locations and maintain nature and hiking trails at **XXXXXXXXX Project. (Appendix ?)**

TP-4.1 **Mowing:** Mow grass as necessary, generally from Mar through Nov, based on growth. Remove all litter, trash, limbs, rocks and other debris from the area before mowing. Grass in public use areas shall not exceed 6-inches in height. Grass on dam slopes, berms, operation areas, etc. shall not exceed 9-inches in height. Areas that cannot be cut by machine shall be hand cut. Neatly and uniformly cut grass to a height of 2-4 inches. Power mowers shall be operated at a safe distance from occupied picnic or campsites. Mowers shall be operated in a manner that will prevent wheel damage to the turf during turns. Trees, shrubbery, signs, buildings or other park facilities shall not be damaged during the mowing operation. Mowing shall not be permitted in recreation areas on Saturdays, Sundays, or holidays unless specifically approved by the ARCO. The list of areas herein, including designated trails, indicate where mowing is to be performed, and approximate acres, but cannot accurately define the exact boundaries of the work areas and the complexity of each area. A site inspection of each area is recommended. Mowing schedules may be modified to accommodate special circumstances resulting from rainfall, use fluctuations, holidays, etc. More frequent mowing of fee areas may be necessary.

TP-4.1.1 **Grass Trimming and Edging:** Neatly trim grass around light poles, head walls, guardrails, trees, shrubs, barrier posts, etc. Trees/shrubs or structures shall not be damaged while trimming. Grass, weeds, tree seedlings, etc. in all planters, landscaped shrub areas, mulched areas around trees, beaches, playgrounds, picnic and camping impact sites, expansion joints or cracks in sidewalks, walkways, curbing, slabs, steps, gravel parking or roads and paved areas shall be removed and disposed of each time mowing is accomplished or treated with herbicides as needed to control growth. Trimming and mowing shall be done at approximately the same time, but in no case shall they be further apart than one day. Sidewalks shall be edged on every mowing cycle using an approved edging tool or machine and left free of grass, dirt and debris.

TP-4.1.2 **Herbicide Application:** Commercial grass retardant may be used in appropriate areas to control unwanted vegetation, with prior approval from the ARCO.. Prepare and application plan, for ARCO approval, prior to use of herbicides, indicating areas for treatment, application rates, personnel, method of application, date and frequency of treatment, safety precautions taken and any other pertinent information. Post temporary signs on all areas that have been treated with chemicals in accordance with EPA and State guidelines. After herbiciding remove unsightly dead grass from the areas. *Submit a Pesticide Applications Report to the ARCO after each treatment.*

TP-4.1.3 **Cleanup:** Remove grass clippings from roadways, sidewalks, campsites, shelters, etc., and leave the premises in a clean and neat condition.

TP-4.1.4        **Safety:** Strictly enforce mowing safety in accordance with previously cited publications and manufacturer's recommendations. Mowing operation shall have a minimum impact on visitor use. Direct discharge from mowers away from all persons, vehicles, campsites, etc. Mowing equipment shall not be operated unless all screens and wire guards are 100% effective. All equipment and personnel must conform to the requirement of EM 385-1-1.

TP-4.2        **Trail Maintenance:** Trail maintenance shall include replacing trail surface, if any, removal of dead or unsafe trees, repairing or replacing signs, steps, footbridges, benches, boardwalks, viewing blinds, and all other structures. Most areas of the trails are too narrow for access by vehicle, consequently materials may have to be transported to the site by means other than by vehicle.

TP-4.2.1        **Inspection:** Inspect the condition of the trails and perform work necessary to control growth, prevent erosion or deterioration and keep the trails safe for public use. Trail maintenance shall include, but is not limited to removal of windfalls, leaning trees, dense brush and vegetation, exposed roots, unsound boards in structures, and placing waterbars to prevent erosion.

TP-4.2.2        **Vegetation Control:** Maintain vegetation on trails to provide an approximate 4-foot width with a 7-foot clearance in height. In areas where vegetative growth is a problem, treatment with herbicide and/or replishment of bark chips, wood chips or sawdust may be necessary. Coordinate herbicide use near the beaver pond with the ARCO..

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**  
**SECTION 5**  
**Maintenance of Boundary Lines**

TP-5.0           **Scope of Work:** The work shall include refurbishing and maintaining approximately \*\*\*\*\* miles of boundary line each year of the contract with boundary line paint approved by the ARCO. Witness trees adjacent to the boundary line shall be repainted in accordance with current Corps of Engineers' boundary marking specifications. Note missing or damaged monuments and submit report indicating location to the ARCO. Cut and move underbrush and limbs off the line to provide a clear line of sight. A pathway 3-foot wide by 8-foot high with stumps 2-inches high or less shall be a minimum.

TP-5.1           **Work Schedules:** The contractor shall submit a work schedule to the ARCO for approval prior to performing the work. Progress reports shall be submitted weekly.

TP-5.2           **Access to Property Line:** Access can usually be obtained through the Government property, either through park or management areas, or over the waters of the lake itself; however, vehicle access will not be possible to all points of the boundary line. Access over adjacent private property, if required or desired, shall be the responsibility of the contractor.

TP-5.3           **Developed and Sensitive Areas:** Contractor shall exercise care in cases where the boundary line is adjacent to a homesite, developed lot, or where it is controversial. Removal of trees and shrubs and marking in these areas shall be limited to only what is essential in obtaining the necessary line of sight. All contact with adjacent property owners regarding any controversial matter must be reported to the ARCO in writing within one working day of occurrence.

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**

**SECTION 6**

**Maintenance of Signs, Barricades, Guardrail, Gates,  
Bumper Blocks, Posts, Fencing, Traffic Counters, and Fire  
Extinguishers**

TP-6.0           **Scope of Work:** Inspect, maintain and replace signs, barricades, guardrail, gates, bumper blocks, posts, fencing, traffic counters, and fire extinguishers. Missing or damaged barricades, guardrail and signs, when safety of visiting public is in jeopardy, shall be given top priority. *New cable barricades shall be installed in locations specified by the ARCO. Annual installation of new barricades will be approximately 1,000 linear feet. Reference Corps of Engineers Sign Standards Manual, EP 310-1 6a and EP 310-1 6b.*

TP-6.1           **Signs:** Install, replace or repair all project signs in accordance with the U. S. Army Corps of Engineers Sign Standards Manual, EP 310-1 6a and EP 310-1 6b. Fabricating temporary signs may be necessary by the contractor; however, all permanent sign fabrication shall be by a sign supplier. The contractor shall replace approximately 10% to 15% of all signs a year. Any variation must be approved by the ARCO.

TP-6.2           **Barricades:** Maintain existing barricades including those on dead-end roads. Paint as necessary in conformance with existing specifications.

TP-6.3           **Gates:** Maintain project gates in a safe, operable condition. Metal gates require periodic adjustment to correct sagging. Replace broken welds, hinges, and paint as necessary.

TP-6.4           **Car Stops:** Replace or repair all damaged car stops. Repairs consist of resetting dislodged bumpers or installing new ones.

TP-6.5           **Posts:** A wooden numbered marker post is installed adjacent to each campsite. These posts require periodic replacement or repainting.

TP-6.6           **Wooden Fencing and Guardrail:** Guardrail and wooden fencing exist primarily for safety purposes. Replace or repair posts and boards, and paint as necessary. *A significant amount of wooden guardrail is deteriorated and may be removed rather than replaced. Repairs to wooden guardrail shall be coordinated with the ARCO and a determination whether to repair or remove will be made at that time.*

TP-6.7           **Metal Fencing:** Operational areas contain security fencing which require maintenance to meet rigid security standards. No maintenance or repairs shall be undertaken until appropriate security requirements are checked to ensure compliance is met. Other metal fencing is found on the project, and although it is not necessary to meet security standards, minimum standards are required.

TP-6.8           **Traffic Counters:** Provide routine traffic counter maintenance. Maintenance includes repair or replacement of boxes, hoses and electric wires, relocation of

existing counters, installation of new batteries, etc. in accordance with the manufacturer and the ARCO's instructions. Take monthly counter readings and furnish to the ARCO.

TP-6.9            **Fire Extinguishers:** Inspect fire extinguishers in various locations, including vehicles and equipment, around the project monthly. Initial and date the tag on each extinguisher, if the unit is properly charged, in good working order and ready for use. Immediately replace extinguishers not ready for use. Make rechargeable or repairable units serviceable and restore to inventory. Furnish reports of this monthly inspection to the ARCO.

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**  
**SECTION 7**

**Maintenance of Landscaped Areas (Trees, Shrubs and Grass)**

TP 7.0           **Scope of Work:** Services for the performance of this work shall include, but not be limited to annual soil testing, tilling, seeding, sodding, trimming, weeding, pruning, planting, fertilizing and mulching as necessary for a variety of physical features and locations such as: the earth embankments, grass and landscaped areas, and other similar sites. The contractor shall perform frequent inspections and maintain landscaped areas in satisfactory condition.

TP 7.1           **Pruning:** Plants around buildings, bulletin boards, gatehouses, entrance gates and other landscaped areas shall be pruned as necessary. Pruning shall be accomplished in accordance with approved horticultural practices. All work shall be performed so that trees and shrubs maintain their natural appearance. Trimmings shall be removed from the site.

TP 7.1.1       **Replacing Dead and Poor Quality Plants:** Ornamental or planted trees, ornamental shrubs and ground covers planted around buildings or in public use areas that are either dead or in unacceptable condition shall be replaced. The replacement plants will be the same size and species as originally planted unless deviation is authorized by the ARCO. Planting of replacement plants shall normally be done between 15 Nov and 15 Mar. Tall shrubs or trees shall be securely anchored by guy wires.

TP 7.1.2       **Weeding and Mulching Shrubs and Trees:** Weeds and grass shall be completely removed from around ornamental shrubs, trees and ground covers, including the removal of grass and weeds from planter boxes, slopes and plant beds. Weeds and grass shall be removed from plant beds out to the original limits of the bed. Weeds and grass shall be removed from around individual trees and shrubs in a circle for a minimum distance of 2-feet from the base of the plants. A pine needle or shredded bark mulch shall be placed in plant beds and around individual trees and shrubs for a distance of 2-feet and to a compacted depth of 2-inches. Place mulch in a circle around all individual trees and shrubs a minimum distance of 2-feet from the base of the plant. Mulch shall be kept out of crowns of shrubs and off buildings, sidewalks, light poles and other structures. Mulch shall be free from weeds, mold, and other deleterious materials. Once each year the contractor shall apply lime and fertilizer to all shrubbery beds at rates approved by the ARCO. Annual cost of seed, lime and fertilizer is estimated to be \$1,000.

TP-7.2            **Seedbed Preparation:**

TP-7.2.1            **Placing Topsoil:** When placing topsoil, distribute uniformly and spread evenly to an average depth of 3-inches. Level surface irregularities to prevent depressions. Pulverize soil compacted by construction equipment or soil on compacted cut slopes to a minimum depth of 2-inches by disking or plowing before applying topsoil. Add peat moss to soils devoid of organic matter in landscaped areas.

TP-7.2.2            **Tillage:** Till soil prior to seeding and sodding to a minimum depth of 4-inches. To prepare an acceptable seedbed, plow, disk, harrow or use rototilling machinery.

TP-7.2.3            **Application of Fertilizer and Lime:** Incorporate fertilizer and lime into soil to a depth of 4-inches. Apply at rates and mixtures required based on soil sample results.

TP 7.2.4            **Seeding:** Bare and eroded areas, road shoulders, grassed areas or other areas where a satisfactory stand of grass does not exist shall be seeded. Seeding shall normally be done between 1 Mar and 1 Dec. Seeding shall not be done when the wind velocity is such as to prevent uniform seed distribution. Seeded areas shall be mulched with threshed straw such as wheat, oats, barley, rye, etc. Material that contains objectionable weed seeds or other material shall not be used. Seed shall be a type approved by the ARCO.

TP 7.2.5            **Drill Planting:** Test and calibrate equipment prior to commencement of operation to ensure seed will be planted at the proper rate. Keep seed boxes on drill seeders half full during planting operation to ensure even distribution of seed. Seed shall be uniformly drilled to an average depth of ¼-inch. Equipment shall have drills set not more than 6-1/2 inches apart. Row markers shall be used with the drill seeder.

TP-7.2.6            **Sowing:** Broadcast seed by hand crank seeders or by hydraulic planting equipment in combination with fiber mulch. Distribute uniformly over areas with one half the seed sown moving in one direction and the other half by moving at right angles to the original direction. Cover seeds with soil to an average depth of ¼-inch.

TP-7.2.7            **Sodding:** Water the areas to a depth of 4-inches immediately prior to placing sod. Lay sod at right angles to slopes or flow of water. Place sod smoothly, edge to edge, with staggered joints. Leave no gaps larger than 1-inch and fill gaps with sand and pieces of sod. Roll and tamp the area to eliminate air pockets. The time limitation between harvesting and placing sod is 36 hours. Sod that has become dry, moldy or yellow from heating will be rejected.

TP-7.2.8            **Mulching:** Spread mulch in a continuous blanket of threshed straw of cereal grains, hay or pine straw to an average depth of ½ -inch on the same day as seeding. Start mulch at the windward side of flat areas or at the upper part of the slope and apply uniformly covering the entire area. Immediately after spreading mulch, anchor by forcing it into the soil. Apply wood cellulosic mulch with the hydraulic application of seed in accordance with the manufacturer's recommendations.

TP-7.2.9            **Watering:** Water shall be applied as needed to newly seeded areas and to replacement plants at the rate of 15,000 gallons per acre. Begin watering within five days of planting if rainfall is insufficient, continue watering at the above rate every five days unless

rainfall of ½ inch or more occurs to maintain the viability of newly seeded and sodded areas. Watering operations shall be properly supervised to prevent runoff. Replacement plants shall be watered by filling the water holding basin constructed around each tree or shrub.

TP-7.2.10 **Planting Rates:** Use the following rates.

Certified Centipede Grass	25 lbs/ac
Hulled Bermudagrass	50 lbs/ac
Turf-type Tall Fescue	60 lbs/ac

TP-7.2.10.1 **Warm Season Seed Mixture:**

	<u>Percent Seed in Mixture</u>	<u>Pounds/Acre</u>
Hulled Common Bermudagrass	70	35
Certified Centipede Grass	30	15

TP-7.2.10.2 **Cool Season Seed Mixture:**

	<u>Pounds/Acre</u>
Turf-type Fescue	200-300, lawn 100-200, pasture

TP-7.2.10.3 **Temporary Winter cover Seed Mixture:**

	<u>Pounds/Acre</u>
Annual Ryegrass	70
Unhulled Bermudagrass	80

TP-7.2.11 **Continual Nutrient Program:** Take at least one soil sample from each recreation areas annually using appropriate State guidelines. Apply recommended blends and quantities of fertilizer and lime to all areas where there is an inadequate stand of grass. Apply nutrients to landscaped areas and plant beds in accordance with results of the soil samples.

TP-7.3 **Hazardous Trees:** Cut dead, diseased, damaged, or fallen trees that present hazards to persons or property in public use areas or operations areas. Upon felling trees in campground areas, cut into firewood lengths, deliver and neatly stack in specified locations. Cut or prune hazardous trees on Government property near private property on a case-by-case basis when requested by the ARCO. Remove and dispose of the trees with a minimum impact on private property.

TP-7.4            **Tree, Stump and Limb Removal:** Remove limbs and grind stumps annually from approximately 1,000 trees ranging from 4 to 30 inches ground line diameter. Approximately 75% of the trees to be removed from various recreation areas for stand basal area reduction will be commercially harvested. Remove and dispose of limbs from cut trees. Grind all stumps of 4-inch ground line diameter or greater down to a minimum of 2-inches below the existing soil surface. Place suitable topsoil in the stump hole and establish grass. This activity shall take place outside the normal recreation season each year. Submit a schedule to the ARCO for approval prior to performing any work.

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**  
**SECTION 8**  
**Cleaning & Maintaining Riprap and Beaches**

TP-8.0           **Scope of Work**: Inspect and provide all labor, equipment, supplies and materials necessary to ensure that beaches and riprap are maintained in safe, attractive and uniform condition. (See Appendix B).

TP-8.1           **Riprap**: Maintain riprap, both stockpiled and in place, in a uniformly graded manner free from debris, litter, trash and vegetation. Cut vegetative material or treat with appropriate herbicide.

TP-8.2           **Beaches**: Shape and grade all designated swimming areas prior to the lake reaching its summer level and as frequently thereafter as necessary to prevent a build up or "ponding" of natural runoff. Carefully clean the beach areas during the grading and smoothing operation. Sand will be replenished as needed, however the cost will not exceed \$2,000 per year. The beach area shall be kept free from all riprap, stone, glass, litter, debris, cans, and all such undesirable material. Maintain the swim lines around beach swim areas in a safe and operable condition. Fluctuating lake levels could necessitate moving swim lines in or out to maintain proper depth of swimming area. The contractor shall frequently check the condition of beaches and buoy lines and make repairs necessary to ensure the area is safe for public use.

PART I - THE SCHEDULE  
SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**  
**SECTION 9**  
**Natural Resource Management**

TP 9.0           **Scope of Work:** Provide labor, materials and supplies necessary for preparation of seedbeds and establishment of wildlife food crops in openings located in various areas on the project. Site locations and types of seed for planting shall be as specified by the ARCO. Maintain, repair and replace wood duck, bluebird, and various other types of nesting structures on the project,

TP-9.1           **Food Plots:** Plant and maintain existing plots and establish new plots after timber cuts or in previously cleared areas. Currently cultivated areas may be replaced by newly established areas or converted to a permanent crop (e.g., clover, lespedeza, autumn olive) which requires little maintenance. Planting requirements are approximately \*\*\*\*\* acres in the fall and approximately \*\*\*\*\* acres in the spring. Work shall be accomplished in accordance with standard agricultural practices. A minimum of two soil tests per plot shall be taken prior to each planting season and the results reported to the ARCO.

TP-9.1.1       **Seedbed Preparation:** Coordinate the time of planting with the ARCO. Prior to planting, disk seed beds to not less than 6-inches. A second disking shall be necessary when more than 30 percent of the soil surface is covered with weeds and crop residue.

TP-9.1.2       **Fertilization:** The contractor shall anticipate an application rate of approximately 250 - 400 pounds of 13-13-13 fertilizer and 1000 - 2000 pounds of agricultural lime per acres, for not more than 250 acres. Concurrent with planting, a granular fertilizer of the formulation and rate indicated by soil tests and type of crop shall be applied.

TP-9.1.3       **Planting:** This contractor shall anticipate planting approximately ??? acres of crimson clover and wheat and ?? acres of rye or oats each fall, and ???? acres of millet and grain sorghum each spring. The type of crop, fertilization, seedbed preparation, etc. shall be coordinated with the ARCO prior to each planting season. Every effort shall be made to get the crops in the ground within a 6-week time frame during Mar and Apr in the spring and Sep and Oct in the fall. Barring unusual circumstances, crops shall be planted no later than 1 Jun for spring plantings and 15 Nov for fall plantings.

TP-9.1.4       **Method of Planting:** Planting methods shall include, but not be limited to the use of cyclone seeder, row planter, or grain drill, depending upon the type crop to be planted. Row crops may require disking within 60 days of planting to control weeds and to aerate the soil.

TP-9.1.5       **Mowing:** Food plots used for dove fields require mowing of approximately 60 percent of the standing crop in late Aug and early Sep. Other plots may be mowed at that time also, after coordination with the ARCO.

TP-9.2            **Nesting Structures:** Inspect, clean and maintain approximately \*\*\*\*\*wood duck nest boxes, \*\*\*\*\* bluebird nest boxes, as well as other nesting structures including purple martin, screech owl and squirrel nesting structures.

TP-9.2.1        **Cleaning:** Nesting structures shall be cleaned during the period 1 Oct to 31 Jan each year, after coordination with the ARCO. Remove old nesting materials and repair or replace damaged boxes. Place old nesting material in individual plastic bags, label and provide to the wildlife biologist for inspection. Use rough cut cedar or pressure treated pine lumber for repairs. Replace nesting material consisting of wood shavings in the wood duck boxes.

TP-9.2.2        **Installation:** Coordinate the installation of new or replacement structures with the ARCO. Map and mark new structures according to the established numbering system to protect the integrity of the record system.

TP-9.3        **Beaver Pond Management:** Drain three beaver ponds during Jul of each year. Plant the ponds by hand with Japanese millet and install and maintain a three-log drain with guidance of the wildlife biologist. Upon maturation of the crop remove the three-log drain to allow the beavers to repair the dam and flood the pond.

TP-9.4            **Pest Control** Develop a Pest Control Plan for \*\*\*\*\* Project to control or eradicate, undesirable plants, animals, and insects by chemical, mechanical, or biological means. Submit the Pest Control Plan to the ARCO within 30 days of commencing work and annually thereafter. The Pest Control Plan shall detail chemicals to be used, application rates, areas to be treated, capture and disposal procedures for animal pests, disposal procedures for unused pesticides and empty pesticide containers, record keeping procedures, applicator licensing procedures, material safety data sheets, and user and public safety measures. Provide labor, supplies, and equipment necessary to implement the Pest Control Plan. Perform no chemical application or implement any part of the Pest Control Plan without the prior approval of the Pest Control Plan by the ARCO.

TP-9.4.1        **Plant Pests:** Control or eradicate approximately \*\*\*\*\* acres of kudzu at various locations on \*\*\*\*\* Project, poison ivy in public use areas, vegetation in riprap, weeds in lawn areas, brush located along rights-of-way, vegetation in impact sites, roads and parking areas.

TP-9.4.2        **Animal Pests:** Includes any domestic animal or nuisance wild animal within any public use area, mice or rats in any public use area or structure located on the project, and any other animal identified by the ARCO. Capture domestic animals alive by the use of traps, tranquilizers, or other acceptable methods. After capture, dispose of these animals in a humane manner and in compliance with applicable local, state and federal laws. Make a reasonable effort to identify and return captured domestic animals to their owners. Advise the ARCO immediately upon the determination of the identity of the owner of a domestic animal.

TP-9.4.3        **Insect Pests:** Includes fire ants, black ants, roaches, spiders, ticks, fleas, wasps, yellow jackets, termites, or any other insect pest identified by the ARCO that presents a nuisance in any public use area or structure at \*\*\*\*\* Project.

TP-9.5            **Prescribed Burning:** Each year of the contract period between 1 Dec and 15 Mar the contractor shall furnish up to 400 man-hours to assist a designated project person in burning approximately 2,000 acres of timbered land. Contract personnel shall be equipped with 100% cotton flame retardant clothing, 100% leather work gloves, and non-steel toed leather lace-up work boots. Contract personnel may be required to work beyond normal duty hours to ensure that all fires within the area being prescribe burned are secure.



PART I - THE SCHEDULE

SECTION C - DESCRIPTION/ SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**

**SECTION 10**

**Maintenance and Repair of Paved and Unpaved Roads,  
Road Shoulders, Parking Areas, Drainage Structures  
and Boat Launching Ramps**

TP-10-0 **Scope of Work:** Furnish all labor and equipment, materials and supplies to inspect, maintain, and repair road, parking areas, drainage structures and boat launching ramps. Repair all disturbed areas as described in TP-7. Describe methods for controlling encroaching vegetation in the Pest Control Plan.

TP-10.1 **Inspection:** Inspect roads, parking areas, drainage structures, and launching ramps within the first 30 days of the contract and monthly thereafter.

TP-10.2 **Paved Roads and Parking Areas:** Re-stripe all faded centerline, parking stripe and symbols (approximately \*\*\*\*\*linear feet per year). Layout and new striping shall require approximately \*\*\*\*\*linear feet of work. Fill and repair sunken areas, cracks, and potholes in accordance with road repair procedures. Pull road ditches as necessary to facilitate water runoff. Paving and resurfacing work shall not exceed \$\*\*\*\*\*per contract year. The Government **will** (?) provide asphalt for this activity.

TP-10.3 **Unpaved Roads:** Grade roads to remove potholes, gullies, and to correct sheet erosion problems. Fill extensive potholes and gullies with crusher run stone prior to blading. Pull road ditches as necessary to facilitate water runoff.

TP-10.4 **Drainage Structures:** Clean pipes as necessary to facilitate water runoff and to prevent ponding. Maintain tail ditches to prevent erosion and movement of material. Keep concrete drainage ditches free of grass, weeds and sediment. There are also other drainage structures comprised of grouted concrete, concrete, or grass to control water movement that are not associated with a road system, but require inspection, repair and maintenance. These are found in various locations throughout the project and comprise approximately 500 linear feet..

TP-10.5 **Road Shoulders:** Maintain road and parking areas shoulders. Raise low shoulders to grade, and clip high areas and plant grass as described in TP-7. Use clippings to fill low areas. Perform this work as early in the growing season as practicable to provide for satisfactory establishment of grass.

TP-10-6 **Boat Launching Ramps:** Keep ramps free of debris, logs, sand, silt, etc. During periods of flooding or pool drawdown, drought, etc., make inspections and repairs of launching ramps as necessary to ensure ramps remain usable and safe at all times.

PART I - THE SCHEDULE

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

**TECHNICAL PROVISIONS**  
**SECTION 11**  
**Operation and Maintenance of Visitor Display Area**

TP-11.0           **Scope of Work:** Furnish all labor, materials, and supplies (with exception of office handout materials, permit forms, log books, etc.) for the operation and maintenance of the Visitor Reception and Display Area at the Project Management Office. This operations also includes routine public services such as making picnic shelter reservations and issuance of Golden Age, Golden Access cards with the subsequent collection of User Fees, and issuing hunting permits.

TP-11.1           **Visitor Reception Duties:**

TP-11.1.1       **Telephone Calls:** The attendant shall answer incoming telephone calls and route them to the appropriate individual, based on caller request or subject of call. The attendant shall telephonically provide information concerning recreation facilities, generation schedules, lake levels, reservations, fishing, public programs, and other topics which are not controversial or require management decisions. Other calls shall be referred to the appropriate Corps personnel for proper disposition.

TP-11.1.2       **Public Visits:** The attendant shall receive visitors in the office reception area. All visitors shall be greeted in a courteous and professional manner. Once the nature of their visit is determined the attendant shall move expeditiously to assist them. The attendant shall point out the brochures and interpretive displays, and advise them of the project programs available for viewing. If the visitors are there for a "canned" program, the attendant will seat them and start the projection equipment. After viewing, the equipment and viewing area will be made ready for the next showing. The attendant will maintain a clean and orderly work area including their desk, lobby, and audiovisual area. Keep a guest register, daily log, maintain brochures and other hand out material displays. Duty hours will be from 8:00 a.m. until 4:30 p.m., Mon through Fri, year round, and additionally 8 hours daily on Saturday and Sunday from  
1 Mar through 31 Oct each year, including holidays.

TP-11.1.3       **Administration:** Provide administrative support for recreational and visitor related items. This support shall be in the form of preparation of letters, listings, memorandums, plans, and other documents relating to facility and equipment use and recreational administration.

TP-11.1.4       **Use of Facilities:** In addition to a desk or work area, the attendant will be provided a telephone, access to the Corps radio system, typewriter and computer with word processing, spreadsheet and database management software. These shall be used only for official business.

TP-11.1.5 **Maintenance of Audio-Visual Facilities and Displays:** Maintain the audio-visual equipment and displays used for the presentation of interpretive programs at the Project Management Office in accordance with manufacturer's recommendations. This includes projectors, screens, interpretative displays, and other related equipment. Keep all equipment necessary for providing audio-visual programs operational and available at all times. Check the audio-visual equipment for proper operation each morning, upon arriving for duty, in order to ensure that the equipment is ready for use that day. Problems found shall be corrected by the attendant or contractor maintenance personnel as soon as possible.

TP-11.1.6 **Picnic Shelter Reservations:** The attendant shall take reservations and receive payment from the public for use of picnic shelters and issue User Fee Permits (ENG Form 4457), manually or issue receipts from a cash register. Issue Golden Access Passports and sell Golden Age Passports and Annual Day Use Passes. User Fee Permit books will be issued by the Recreational Fee Cashier (RFC) as necessary. The attendant shall maintain records of permits or cash register receipts issued and shelter reservations taken and provide a schedule of shelter reservations for each week to the Supervisory Park Ranger.

**NOTE- THE NEXT TWO SECTIONS COULD BE REPLACED BY REFERRING TO A USER FEE SOP ADDED AS AN APPENDIX.**

TP-11.1.7 **Collection of User Fees:** *Attendant shall follow instructions provided regarding issuance of User Fee Permits, operation of the cash register, acceptance of personal checks, traveler's checks, etc. Attendant shall not be authorized to make refunds and shall forward all such requests to the RFC for consideration. Attendant shall not be authorized to make change for persons paying fees, correct change or a check shall be required for payment of any fees. When a mistake is made with a permit, the attendant shall write "**VOID**" on the permit, and all three copies of the voided permit shall be left attached to the permit book to be returned to the RFC. When a mistake is made with the cash register, the RFC is to be called in order to void the incorrect transaction receipt. The attendant shall not void any transaction on the cash register. Attendant may be audited at any time without notice, and any discrepancy will be investigated.*

TP-11-1.8 **Security and Handling of Funds:** *The attendant shall deposit all moneys collected in an approved two-drawer combination safe until the funds are removed for submittal to the RFC. The only exception shall be funds collected while the attendant is on duty. Cash drawer moneys shall not exceed \$200 at any time, and these monies shall be secured in the safe whenever the attendant is not on duty at the desk. When using the cash register, attendant shall change their entry codes at any time the on-duty attendant changes (e.g. lunch, swap shifts, etc.). Fees shall be collected from the visitor center safe no less than once a week by the RFC.*

TP-11.1.9        **Hunting Permits:** Attendant shall issue permits to members of the public requesting written authorization to hunt on public property at the project. Approximately 3,000 permits are issued each year, and approximately 90 percent are issued during the period Sep through Dec. Attendant shall complete permit forms, issue completed form to the permittee, and enter appropriate data into the Project Management Office computer network. This process is expected to take approximately 5 to 10 minutes per permit.

TP-11.1.10       **Attendant Uniform:** The attendants shall be in uniform while on duty. Uniforms are to be kept clean, wrinkle free, and neat. Ill-fitting, faded, or shabby uniform items shall not be worn. Uniforms will be moderate in style and color, pleasing to the eye and in good taste. Uniform may be trousers or skirt with contrasting blouse. Accessories shall be kept to a minimum. High gloss or smooth leather plain toed shoes shall be of an appropriate color. Women may wear plain smooth leather flats or low pumps. The contractor shall submit a proposed uniform package for approval by the ARCO prior to commencement of work. This proposal shall contain the contractor's recommended uniform items including styles, colors and types of uniform items proposed.

TP-11.1.11       **Nameplate:** The attendant shall wear a nameplate at all times while on duty. The nameplate shall be approximately 1-inch by 3-inches, containing the first name and last name of the attendant in neat, bold and permanent letters. The nameplate shall also contain the contractor's company name and logo or emblem.

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**TECHNICAL PROVISIONS**  
**SECTION 12**  
**Cleaning and Maintenance of Government Vehicles,  
Equipment, Mowers, Trailers and Attachments**

TP-12.0        **Scope of Work**: Furnish labor, equipment, supplies, and materials required to wash, service and repair project vehicles, boats, heavy equipment, light equipment, attachments, trailers and mowers. Accomplish all work by or under the supervisor of qualified personnel. Perform preventive and routine maintenance at the contractor's field office. Replacement items shall be of equal or better quality than those replaced and comply with manufacturer's recommendations.

TP-12.1        **Compliance Documents**:

- a. ER 56-2-1 - Administrative Vehicle Management
- b. EP 750-1-1 - Procedural Pamphlet for Materiel Maintenance Policies
- c. ER 750-1-1 - Material Maintenance Policies

TP-12.2        **Preventive Maintenance**: Inspect and perform maintenance services (change oil and oil filter, lubricate, etc.), every 6,000 miles. Perform vehicle tune-ups in accordance with manufacturer's recommendations. Inspect, and service equipment such as dozers, mowers, backhoes, loaders, etc., after every 100 hours of operation. The bucket truck and related high voltage items are to be tested and recertified annually.

TP-12.3        **Routine Maintenance**: Routine maintenance includes all repairs not covered by previous maintenance. Such repairs include, but are not limited to, tire-rotation, replacement and mounting, brake repair, engine overhaul or repair, transmission and drive train work, repair of air conditioning, hydraulic and electrical systems, repair or replacement of starters, batteries, belts, etc., and welding repairs. Repairs in excess of \$500 in parts and labor must be approved in advance by the ARCO.

TP-12.4        **Vehicle Cleanliness and Appearance** Clean and wax Government vehicles periodically. Clean the inside as well as the outside of the vehicles frequently enough to keep the vehicle presentable and protect the finish. Some vehicles and boats, highly visible to the public, may require attention weekly. Schedule work to ensure minimum impact on vehicle use.

TP-12.7        **Records and Reporting**: Maintain accurate and complete records and make periodic reports as required for vehicles and equipment. The Corps will furnish forms for these purposes.

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**TECHNICAL PROVISIONS**  
**SECTION 13**  
**Renovation and Construction of Recreation**  
**Facilities and Roads**

TP-13.0           **Scope of Work** The contractor shall furnish supervision, and the necessary skilled tradesmen to assemble, install, renovate, modify and repair recreational facilities. Such work shall be accomplished according to plans and specifications provided by the ARCO.

TP-13.1           Install, renovate, or construct lantern posts, vehicle pads, impact areas, fire rings, picnic tables, fee vaults, bulletin boards, grills, timbers, signs, electric panel boxes, drainage pipes, electrical systems, water lines, gate houses, bulkheads, roads, picnic shelters, swales, berms, small operational buildings and other facilities that might be necessary for the operational integrity of the project.

TP-13.2           Materials except for minor items such as form material, rough lumber for temporary supports, etc., to accomplish work in this section will be furnished by the Government. The contractor shall be responsible for transporting the materials from the Corps' maintenance compound to the job site.

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**TECHNICAL PROVISIONS  
SECTION 14**

**Aids to Navigation, Floating Debris Removal  
and Courtesy Dock Maintenance**

TP-14.0 **Scope of Work:** The contractor shall furnish all labor, materials and supplies necessary to provide maintenance of aids to navigation, removal of floating debris and maintenance of courtesy docks for this project.

TP-14.1 **Maintenance of Aids to Navigation:**

TP-14.1.1 **Inspection of Navigation Aids:** Inspect and catalog all aids to navigation semi-annually. During this inspection, examine the overall condition of the aids to determine repairs needed and the appropriate materials required to effect the repairs. Ensure that each aid to navigation is numbered and properly marked as Government property. Aids which have faded or are no longer readable shall be replaced. When the navigation aid is a floating buoy, determine the overall condition of the buoy, metal attachment points on the buoy, condition of the cable, chain or rope used to attach the buoy to the anchor and all clamps or eyes used in the buoy system. Ensure that the buoy is on the proper station and has not drifted off station. When the navigation aid is mounted on a fixed piling, make note of the general condition of the piling and the aid. Notation will be made of the exact location of the aid so that it may be correctly replaced if lost. Conduct an annual inspection in sufficient time to allow all necessary repairs and replacements of aids prior to the beginning of the peak recreation period. Generally, the peak visitation period is from 1 Mar to 31 Oct of each year. Additional inspections shall be required in the event of flood or drought situations.

TP-14.1.2 **Maintenance of Aids to Navigation:** Upon completion of the periodic inspection or upon notification of an existing problem outside of the normal inspection procedure, the contractor shall take appropriate action to correct the problems. Ensure that severe problems which involve imminent danger to the public are corrected immediately. Otherwise, develop a systematic approach to correcting problems found during inspections. Corrective shall be in accordance with established procedures and manufacturer's recommendations. Replace Lost or missing aids with the same type of aid and properly mark with the same number. Upon completion of inspection and corrective actions, a report will be provided to the ARCO reflecting inspection findings and corrective actions taken.

TP-14.2 **Floating Debris Removal:** Remove floating debris from all structures such as locks, spillways, flow structures, floating docks, fishing decks, walkways, buoy lines, swimming beach barriers, aids to navigation, recreation areas, and other structures located along the water in order to ensure that the use of these structures is unimpaired and safe. Inspect all structures subject to collection of debris on a monthly basis and schedule timely removal of accumulated debris. All debris removed from these structures will be disposed of in accordance with state and Federal laws and regulations and in accordance with accepted environmental practices.

TP-14.3 **Courtesy Dock Maintenance:** Inspect and repair existing courtesy docks. In all instances where structures are found to be unsafe for public use, secure the facility to prevent public access and immediately prepare to make the necessary repairs to return the dock to service. This shall be done in the most expeditious manner possible. Inspection of the docks shall include checking all bolts, nuts, boards, shoreline connections, pilings, welds, bumpers, rails, and other structural members. When painting be required, it shall be scheduled at a time to limit the impact on the visiting public due to the removal of the dock from public use. All repairs shall be in accordance with manufacturer's recommendations and accepted industry practices. Replacement parts shall be obtained from the manufacturer unless permission is receive from the ARCO to vary from this requirement.

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**TECHNICAL PROVISIONS**  
**SECTION 15**  
**Maintenance of Lock, Dam, Spillway and Flow Structure**

TP-15.0 **Scope of Work:** The contractor shall perform required maintenance on locks, dams, spillways and miscellaneous small structures as described in Section 1. Maintenance shall be performed as outlines in Tables TP-15.1.M, TP-15.1.Q, TP-15.1.S, TP-15.1.A, TP-15.1.N, as described herinafter and as set forth in applicable sections of the Operation and Maintenance Manuals for each structure which is part of this contract. The O&M Manuals are available for inspection at the Columbus Area Office in Columbus, Mississippi. Upon award of this contract two copies of each O&M Manual will be furnished to the contractor.

TP-15-1 Contractor personnel shall check in with the Lockmaster before performing maintenance on any structure or part thereof. Any required operation of machinery will be performed by Government personnel. contractor personnel shall check out with the Lockmaster upon completion of work.

TP-15.1.1 Work areas shall be left clean. Any spilled paint, grease, etc., shall be thoroughly cleaned. All scrap materials, cleaning equipment, soiled rags, etc., shall be removed from the area prior to departing the structure.

TP-15.1.2 During maintenance work contractor personnel shall visually inspect all piping, machinery, wiring, concrete, etc., for discrepancies and shall report same to the Lockmaster.

TP-15-2 **Electrical Maintenance:** Electrical maintenance shall be performed on an "as needed" basis and shall include the following:

- a. Maintain primary electrical service from terminal pole to transformer.
  - b. Service/adjust taps on transformer.
  - c. Install replacement cutout fuses on terminal pole.
  - d. Trace/repair/replace grounded or faulty circuits.
  - e. Replace hydraulic control valve solenoids.
  - f. Service/test/adjust/repair catholic protection system.
  - g. Adjust/repair spillway gate limit switches.
  - h. Adjust and repair lock control limit switches.
  - i. Replace or repair spillway hoist motors and mot controllers as necessary.
  - j. Check/repair/replace thermostats/heaters in all electric motors/controls, etc.
  - k. Maintain spillway danger signs on all spillways.
  - l. Maintain motor control center system in control buildings, including heating, air conditioning ventilating, compressed air, plumbing, sewage and water systems.
  - m. Maintain selsyn transmitters and indicators.
  - n. Dry/check/repair all electrical systems after inundation.
  - o. Relamp/replace ballasts/maintain high mast lights (all locks).
  - p. Troubleshoot, repair and maintain all electrical systems and equipment as necessary.
  - q. Replace lightning arrestors as necessary.
  - r. Troubleshoot, repair, and maintain lock close circuit television systems, public address systems, and intercom systems.
  - s. Troubleshoot, repair, and maintain lock marine base radios and handhelds.
- Troubleshoot, repair, and maintain lock VHF Corps base units, mobiles, and handhelds.

TP-15-3      **Mechanical Maintenance:** Mechanical maintenance shall be performed on an “as needed” basis and shall include the following:

- a. Adjust or replace hydraulic cylinder packing glands.
- b. Replace flexible hydraulic hoses on tainter valve cylinders.
- c. Replace 4-way valves, blocking valves, by-pass valves, counterbalance and isolation valves on hydraulic system.
- d. Repair leaks in hydraulic system.
- e. Adjust or replace reaction/guide rollers on miter gate machinery.
- f. Adjust or replace gudgeon pins and anchor links.
- g. Service and repair miter gate automatic lubrication system.
- h. Service and repair raw water systems and pumps.
- i. Maintain and repair sump pumps in galleries (4 locks).
- j. Maintain and repair dewatering pumps at Bay Springs Lock.
- k. Maintain and repair water well pumps at Gainesville and Columbus.
- l. Repair or replace all bushings, bearings, pins, connectors, pumps, valves and other mechanical parts.
- m. Service and repair chlorinators on sewage systems.
- n. Troubleshoot, repair and maintain all mechanical systems as necessary.
- o. Furnish diesel fuel for emergency generators as needed.
- p. Maintain spillway stoplogs and lock stoplogs including grease rollers, exercise release mechanism, touch-up paint, etc.

TP\_15.4      **Structural Maintenance:** Structural Maintenance shall be performed on an “as needed” basis and shall include the following:

- a. Concrete repairs.
- b. Repair or replace expansion joint material.
- c. Repair, replace or rebolt grating.
- d. Repair miscellaneous structural damage on miter and tainter gates, lock stoplogs and spillway stoplogs, tainter valves, by-pass structures, minimum flow structures, drainage structures, etc.
- e. Roof repairs.
- f. Pest control at locks, spillways and associated structures such as storage buildings, flammable storage buildings and other miscellaneous buildings at the locks.
- g. Maintain and repair PVC piping in spillway galleries.
- h. Maintain fire hose cabinets.

TP-15.5      **Flow Structure Maintenance:** Flow structure maintenance shall be performed on an “as needed” basis. Flow structures include major and minor grade stabilization structures, major inflow structures, concrete chute structures, bypass structures, drains, pipe structures, open drains, ditches and drop inlets. Maintenance shall include removing debris, sedimentation, obstructing vegetation, beaver dams, etc., from intakes and structures and approach channels. Maintenance shall also include repairing or replacing concrete, piling, riprap, weirs, supporting slopes, trash structures, grating, pipe, etc., as necessary to ensure functional adequacy of structures. Vegetation shall be removed annually from riprap adjacent to each canal section flow structure.

TP-15.6      **Major Lock Maintenance Closures:** Approximately once every three years several locks will be closed for up to 30 days to accomplish major overhaul and repair work. contractor shall perform required lock repairs during lock closures if needed. For proposal purposes, contractor shall assume that Gainesville Lock and Lock B will have to be dewatered and closed in the fall of      for approximately 21 days each (concurrently) to

replace all miter and quoin blocks and their associated backing material. Other minor repairs such as re-stressing miter gates, repair anodes, repair grease lines and seals plus other minor repairs as may be necessary.

TP-15-7 **Spillway Painting**: contractor shall perform spillway gate sandblasting and painting as needed. It is anticipated that the spillway tainter gates at Lock D spillway will be painted in the basic year of the contract. Should option years be exercised by the Government, contractor should assume painting Lock E spillway in option year one. These includes setting stoplogs and dewatering the gates, sandblasting and painting each gate and installing cathodic protection on face of gates. Painting shall be accomplished in accordance with original construction specifications for the appropriate spillways.

TP-15-8 **Painting Stoplogs**: contractor shall perform sandblasting and painting of stoplogs for the locks. An average of five lock stoplogs and one complete set of spillway stoplogs are to be sandblasted and painted per year. Painting shall be accomplished in accordance with original construction specifications for these stoplogs. Touch up painting on miter gates and machinery and spillway gate machinery as needed.

TP-15-9 **Spillway Exit Channel Maintenance**: Spillway exit channels at Lock B and Lock E shall be maintained from the spillways to the confluence of the exit channel with the creek or river. Exit channels include the full width of the excavated channel plus the adjacent side slopes. Maintenance shall include removing or deadening vegetation to the extent that the trunk diameter of any vegetation does not exceed 3-inches. This work shall be accomplished as often as necessary to effectively control the vegetation to the extent that the trunk diameter of any vegetation does not exceed 3-inches.

TP-15.10 **Closed Circuit Television, Public Address and Intercom**: This consists of repairing, replacing, and maintaining complete systems including television monitors, power amps, power supplies, speaker systems, intercom systems, pan and tilt motors, low light level cameras, electronic and electro-mechanical control systems for the above systems, etc. Repairs shall include cleaning, adjusting, lubricating, testing and whatever else is necessary to maintain accurate and continuous operation of the indicated electronic systems within prescribed tolerances.

TP-15.11 **VHF Corps/Marine Radio Systems**: The field work consists of power, voltage and frequency tests to assure FCC compliance. Work also consists of repairing, replacing, adjusting, and maintaining tower structures, antennas, coax, VHF Corps/Marine base units, handheld units, mobile units, etc. As an option the contractor may elect to have radios repaired at a depot experienced in this type of repair.

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**TECHNICAL PROVISIONS  
SECTION 16**

## Navigation Channel Maintenance

TP-16.0 The contractor shall provide all equipment and labor required to maintain the navigation channel except for dredging of large shoaled areas.

TP-16.1 **Channel Maintenance**: Remove snags from river and canal navigation channels and small boat channels as required to ensure safe passage of all navigation traffic. Snags shall be placed on the bank above the high water line or shall be removed to a designated disposal area.

TP-16.2 **Shoal Removal**: Remove minor shoals as required to ensure project width and depth. Shoals are expected to occur at major and minor grade stabilization structures and shall be removed by floating plant as needed to prevent restriction of the channel. Excavated material shall be disposed of in areas to be designated by the ARCO. The ARCO will determine which shoals will be removed under this contract and which shoals are to be included in dredging contracts.

TP-16.3 **Dredging**: During the life of this contract, the Government reserves the right to advertise and award other contracts for major maintenance dredging of the waterway navigation channel.

TP-16.4 **Minimum contractor Furnished Equipment**: The following list of equipment is to be furnished by the contractor and is considered to be the minimum required to accomplish the work:

a. Towboat: Twin-screw, twin-engine diesel equipped with pushing knees and deck winches. It must be of sufficient size and horsepower to safely handle the Government furnished crane barge plus two loaded lock stoplog barges under variable river conditions. All floating plant furnished by the contractor shall meet all U. S. Coast Guard requirements. The spud barge and crane shall be load tested in accordance with the provisions of EM 385-1-1 prior to commencing any work.

b. Work boats as necessary to perform the specified work.

c. Equipment to repair earthen or riprap slopes not accessible by floating plant (as needed).

d. Equipment to repair public address, intercom, and closed circuit television equipment. As a minimum, this should consist of an oscilloscope, audio signal generator, portable CCTV monitor, EIA Resolution Chart, pattern generator, and sound level meter.

e. Equipment to repair and maintain the CWMC EPABX - telephone switch and all CWMC extension phones.

f. Equipment to repair and maintain VHF mobile radios, base radios, and handheld radios as well as Marine base units and handhelds.

TP-16.4.1 The Government may elect to furnish all or part of this equipment to the contractor at some point in time during the life of the contract. For proposal purposes, offerors shall include cost and pricing data as if the Government will not furnish the equipment during the base year nor any of the four option years.

TP-16.4.2 The floating plant may be used to support other contracts as directed by the Government. The contractor shall coordinate this support through the ARCO to arrive at a support schedule mutually agreeable to all parties.

TP-16.4.3 It is estimated that the floating plant will be used 2,000 hours during the year.

TP-16.5 **Buoys**: Maintain buoy lines above and below each spillway and bypass structure. Buoys will be furnished by the Government.

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**TECHNICAL PROVISIONS**  
**SECTION 17**  
**Slope Repair and Maintenance**

TP-17.0 **Scope of Work**: The contractor shall provide all equipment, labor and material to repair channel and bank damage and maintain Divide Section slopes. Slope maintenance shall be performed on riprap and earthen slopes in the divide section (River Mile \*\*\*\*\* to River Mile \*\*\*\*\*).

TP-17.1 **Earthen Slope Repair**: Earthen slopes shall be repaired by replacing lost material, reshaping the repaired area to original contour or slope and seeding the area with approved seed mixture. The top of bank area shall be reshaped to prevent reoccurrence of damage. Other methods may be used upon approved of the ARCO. It is estimated that repair of one major slide or eroded bank requiring 1,000 cubic yards of fill will be necessary each year of the contract. It is also estimated that 12 smaller areas will require 200 square yards of slope repair with minimum fill each year of the contract.

TP-17.2 **Earthen Slope Maintenance**: Earthen slope maintenance shall include repairs to the slopes, reseeding or resodding, removing all trees with a trunk diameter of 3-inches or larger, removing or trimming vegetation that obstruct the slope or berm drainage systems, and maintaining the existing berm roads and disposal area roads.

TP-17.3 **Riprap Slope Repair**: Riprap slopes shall be repaired by removal of riprap, bedding stone and filter fabric to expose the underlying earth. The failed area shall be reconstructed to original lines and grades and the filter fabric, bedding stone and riprap shall be furnished as required to reconstruct the area to original lines and grades. It is estimated that 20,000 tons of riprap will be required per year.

TP-17.4 **Riprap Slope Maintenance**: Riprap slope maintenance shall include the riprap existing on both sides of the waterway between River Mile and River Mile \*\*\*\*\*. It shall also include the inside slope of all curves from point of tangency for the remainder of the divide cut. Also included is the riprap located within 100 feet of major inflow structures and within 25 feet of concrete chutes and metal pipe structures and the removal of all vegetation having a diameter of 3-inches or greater from the rip-rap stockpiles. Vegetation shall be removed on an annual basis in designated special zones inside of horizontal curves where visibility required for navigation purposes would be impaired by vegetation, riprap areas in the deepest portion of the divide cut at both sides (station \*\*\*\*\* to station \*\*\*\*\* ), areas upstream and downstream of structures, and main damming surfaces.

TP-17.5 **Other Contracts**: The Government reserves the right to award other contracts for slope protection or restoration work if the need arises.

## MISC. ITEMS

TP-\*\*.0                    **Scope of Work:** Provide certain planning, supervision, labor, equipment, materials and replacement parts and supplies to maintain Government-owned facilities and equipment on the Tennessee-Tombigbee Waterway. These facilities include locks, dams and spillways at Gainesville Lock and Dam, Tom Bevell Lock and Dam, Columbus Lock and Dam, Aberdeen Lock and Dam, Lock A, Lock B, Lock C, Lock D, Lock E, Bay Springs Lock and Dam and Waterway Management Center Complex. In addition, the contractor shall be responsible for maintaining the navigation channel in accordance with these specifications.

TP-\*\*.1                    **Work to be Performed:**

- a. Electrical, electronic, mechanical and general maintenance and repairs at locks, spillways and associated structures and Waterway Management Center Complex.
- b. Removal of obstructions to navigation.
- c. Repairs to riprap slopes.
- d. Repair to earthen slopes.
- e. Maintenance of flow structures, drainage structures and grade stabilization structures.
- f. Maintenance of vehicles.
- g. Storage and disposal of hazardous or toxic materials.
- h. Maintenance of boats and boat motors.

TP-\*\*.1.1                **Work Excluded:**

- a. Major dredging of navigation channel.
- b. Supervisory Control and Data Acquisition (SCADA) Systems, Hydromet Systems.
- c. Lock control systems (electronic portion internal to cabinets).
- d. Instrumentation (Piezometer, uplift cells, etc.)
- e. Corps VHF Repeaters.

TP-\*\*.1.2                The intent of these specifications is to procure for the Government efficient and proper maintenance and repairs of the navigation related facilities on the Tennessee-Tombigbee Waterway from River Mile 217.0 to River Mile 443.4. The work shall consist of furnishing certain labor, supervision, materials, supplies, equipment, floating plant, transportation, fuel, lubricants and other items necessary to properly and timely satisfy the intent of this contract in an efficient manner.

TP-\*\*.1.3 The contractor shall respond to emergency situations such as (but not limited to) major structural damage to miter and tainter gates, severe levee erosion and spillway/stilling basin undermining as necessary to effect immediate repairs and restore structural integrity. The Government reserves the right to mobilize additional contract or hired labor effort as required to complete repairs.

TP-\*\*.1.4 The contractor may be required, in emergency situations, to lend support with the floating plant to set stop logs at one or more locks on the Black Warrior Tombigbee and Alabama Rivers or perform emergency work on structures on these river.

TP-\*\*.1.5 **Facilities:**