

SECTION 01 00 00
GENERAL REQUIREMENTS

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**SECTION 01 00 00
GENERAL REQUIREMENTS**

1.1 GENERAL INTENTION

- A. Contractor shall completely prepare site for construction operations, including demolition and removal of existing structures, and furnish labor and materials and perform work for SANITARY SEWER RELOCATION as required by drawings and specifications.
- B. Visits to the site by Bidders may be made only by appointment with the Cemetery Director.
- C. Offices of ANDERSON ENGINEERING OF MN, LLC, as Architect-Engineers, will render certain technical services during construction. Such services shall be considered as advisory to the Government and shall not be construed as expressing or implying a contractual act of the Government without affirmations by CONTRACTING OFFICER or his duly authorized representative.
- D. Prior to commencing work, general contractor shall provide proof that a OSHA certified "competent person" (CP) (29 CFR 1926.20(b)(2)) will maintain a presence at the work site whenever the general or subcontractors are present.
- E. Training:
 - 1. All employees of general contractor or subcontractors shall have the 10-hour OSHA certified Construction Safety course and /or other relevant competency training, as determined by VA CP.
 - 2. Submit training records of all such employees for approval before the start of work.

1.2 CONTRACTOR QUALIFICATIONS

- A. The Contractor or Subcontractor installing the sewer pipe shall be a drainlayer licensed with St Louis County, Missouri and shall be bonded (\$10,000). [Note: This bonding requirement does not supersede other bonding requirements listed elsewhere in the solicitation]
- B. After award, the contractor (or subcontractor) shall obtain a "no fee" permits from Metropolitan St Louis Sewer District (MSD) offices located at 2350 Market Street, St Louis, MO. The contractor shall provide start dates so that MSD can assign an inspector to the project.

1.3 STATEMENT OF BID ITEM(S)

- A. ITEM 1, SEWER CONSTRUCTION: Work includes sewer construction, alterations, roads, walks, grading, drainage, decorative fence and necessary removal of existing structures and construction and restoration of certain other items. Work shall include 'Trenchless' pipe installation as well as conventional pipe laying work. Contractor shall be responsible for delegated design and construction of a suitable trench stabilization system (excavation shoring) to limit excavation footprint, protect site improvements and provide a safe working environment for the installation of sanitary sewer.

1.4 UTILITY AND PERMIT FEES

- A. The following fees shall be paid by the contractor on behalf of the government.
1. **Metropolitan St. Louis Sewer District (MSD)** – St Louis County Licensed drainlayer shall obtain "no fee" permits from MSD as described in paragraph 1.2 of this section.
 2. **St Louis County** – Contractor shall obtain Special Use Permit – Utilities from the St Louis County Highway and Traffic Department. Contact information listed on plan cover. Estimated fee \$200 .
 3. **ATT** – Contractor shall include an allowance of \$65,000 for payment to AT&T for relocation of existing fiber optic line. Contractor shall initiate this work by coordinating with AT&T and execution of the 'Letter of Agreement' found in the appendices of these specifications.
 4. **NPDES** – Pursuant to the National Discharge Elimination System, the contractor shall obtain a General Land Disturbance and Stormwater Permit, from the Missouri Department of Natural Resources. Estimated Fee: \$800.

Contractor shall include payment of the fees in the base bid. Upon presentation of proof of payment, the contract value will be adjusted to reflect actual amount paid by the contractor on behalf of the government.

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1.5 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR

- A. AFTER AWARD OF CONTRACT, 1 set of specifications and drawings will be furnished.
- B. Additional sets of drawings may be made by the Contractor, at Contractor's expense, from Bond furnished by the Issuing Office.

1.6 OPERATIONS AND STORAGE AREAS

- A. The Contractor shall confine all operations (including storage of materials) on Government premises to areas authorized or approved by the CONTRACTING OFFICER. The Contractor shall hold and save the Government, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance.
- B. Temporary buildings (e.g., storage trailers, office trailers) and utilities may be erected by the Contractor only with the approval of the CONTRACTING OFFICER and shall be built with labor and materials furnished by the Contractor without expense to the Government. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work.
- C. The Contractor shall, under regulations prescribed by the CONTRACTING OFFICER, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the CONTRACTING OFFICER. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads. **(FAR 52.236-10)**
- D. Working space and space available for storing materials shall be as shown on the drawings.
- E. Workmen are subject to rules of the Cemetery applicable to their conduct.
- F. Execute work so as to interfere as little as possible with normal functioning of Cemetery as a whole, including operations of utility services, cemetery entrance road and any existing structures, and with work being done by others.
 - 1. Do not store materials and equipment in other than assigned areas.

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2. Schedule delivery of materials and equipment to immediate construction working areas.
Provide unobstructed access to the Cemetery in accordance with the traffic control layout provided on the Construction Phasing Plans.
- G. Construction Fence: Before construction operations begin, the Contractor shall provide a chain link construction fence, 2.1m (seven feet) minimum height, around the construction area indicated on the drawings. Provide gates as required for access with necessary hardware, including hasps and padlocks. Fasten fence fabric to terminal posts with tension bands and to line posts and top and bottom rails with tie wires spaced at maximum 375mm (15 inches). Bottom of fences shall extend to 25mm (one inch) above grade. Remove the fence when directed by CONTRACTING OFFICER. Construction Operations may require relocation of the fences between construction phases.
- H. Utilities Services: Maintain existing utility services for the Cemetery at all times. Provide temporary facilities, labor, materials, equipment, connections, and utilities to assure uninterrupted services. Contractor shall provide for the temporary pumping of sanitary sewer for a portion of the project, in accordance with Metropolitan St. Louis Sewer District requirements.
 1. No utility service such as water, gas, steam, sewers or electricity, or fire protection systems and communications systems may be interrupted without prior approval of CONTRACTING OFFICER. Electrical work shall be accomplished with all affected circuits or equipment de-energized. When an electrical outage cannot be accomplished, work on any energized circuits or equipment shall not commence without the CONTRACTING OFFICER, and Cemetery Director's prior knowledge and written approval.
 2. The Contractor shall submit a request to interrupt any such services to CONTRACTING OFFICER, and Cemetery Director, in writing, 48 hours in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.
 3. The Contractor will be advised (in writing) of approval of request, or of which other date and/or time such interruption will cause least inconvenience to operations of the Cemetery
 4. Major interruptions of any system must be requested, in writing, at least 15 calendar days prior to the desired time and shall be performed as directed by the CONTRACTING OFFICER.

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5. In case of a contract construction emergency, service will be interrupted on approval of CONTRACTING OFFICER. Such approval will be confirmed in writing as soon as practical.
 6. Whenever it is required that a connection or relocation fee be paid to a public utility provider for new permanent service, relocation services, or inspection of services to the construction project, for such items as water, sewer, electricity, fiber optic, gas or steam, payment of such fee shall be the responsibility of the Contractor, paid on behalf of the Government.
- I. Abandoned Lines: All lines shall be abandoned as indicated on plans. If not indicated, all service lines such as wires, cables, conduits, ducts, pipes and the like, and their hangers or supports, which are to be abandoned but are not required to be entirely removed, shall be sealed, capped or plugged.
 - J. To minimize interference of construction activities with flow of Cemetery traffic, comply with the following:
 1. Keep roads, walks and entrances to grounds, to parking and to occupied areas of buildings clear of construction materials, debris and standing construction equipment and vehicles. Wherever excavation for new utility lines cross existing roads, at least one lane must be open to traffic at all times, or as specified in the plans.
 2. Method and scheduling of required cutting, altering and removal of existing roads, walks and entrances must be approved by the CONTRACTING OFFICER.
 - K. Coordinate the work for this contract with other construction operations as directed by CONTRACTING OFFICER. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS.
 - L. Coordination of Construction with Cemetery Director: The burial activities at a National Cemetery shall take precedence over construction activities. The Contractor must cooperate and coordinate with the Cemetery Director, through the CONTRACTING OFFICER, in arranging construction schedule to cause the least possible interference with Cemetery activities. Construction noise during the interment services shall not disturb the service. Trucks and workmen shall not pass through the service area during this period.

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1. The Contractor is required to discontinue his work sufficiently in advance of Easter Sunday, Mother's Day, Father's Day, Memorial Day, Veteran's Day and/or Federal holidays, to permit him to clean up all areas of operation before these dates.
 2. Cleaning up shall include the removal of all equipment, tools, materials and debris and leaving the areas in a clean, neat condition.
- M. Site Appearance: As this work occurs at the main entrance to the cemetery, keeping a clean and orderly work site is essential. Excess material and debris shall be removed from site on a daily basis. Material and equipment storage shall be neat and orderly.

1.7 ALTERATIONS

- A. Survey: Before any work is started, the Contractor shall make a thorough survey with the CONTRACTING OFFICER of the areas in which alterations occur and areas which are anticipated routes of access, and furnish a report, signed by to the Contracting Officer. This report shall list:
1. Existing condition of pavements, fencing and columns, vegetation and other items in the vicinity of construction and access routes.
 2. Shall note any discrepancies between drawings and existing conditions at site.
 3. Shall designate areas for working space, materials storage and routes of access to areas where alterations occur and which have been agreed upon by Contractor and CONTRACTING OFFICER.
- B. Any items required by drawings to be either reused or relocated or both, found during this survey to be nonexistent, or in opinion of CONTRACTING OFFICER, to be in such condition that their use is impossible or impractical, shall be furnished and/or replaced by the Contractor with new items in accordance with specifications which will be furnished by the Government. Provided the contract work is changed by reason of this subparagraph B, the contract will be modified accordingly, under provisions of clause entitled "DIFFERING SITE CONDITIONS" (FAR 52.236-2) and "CHANGES" (FAR 52.243-4 and VAAR 852.236-88).
- C. Re-Survey: Thirty days before expected partial or final inspection date, the Contractor and CONTRACTING OFFICER together shall make a thorough re-survey of the areas involved. They shall furnish a report on conditions then existing as compared with conditions of same as noted in first condition survey report:

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1. Re-survey report shall also list any damage caused by the Contractor, despite protection measures; and, will form the basis for determining extent of repair work required of the Contractor to restore damage caused by the Contractor's workmen in executing work of this contract.

1.8 ENVIRONMENTAL CONTROLS

- A. In general, the following preventive measures shall be adopted during construction to keep clean and in order.
- B. Refer to specification Section 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS

1.9 DISPOSAL AND RETENTION

- A. Materials and equipment accruing from work removed and from demolition shall be disposed of as follows:
 1. Reserved items which are to remain property of the Government are noted on drawings or in specifications. Items that remain property of the Government shall be removed or dislodged from present locations in such a manner as to prevent damage which would be detrimental to re-installation and reuse. Store such items where directed by CONTRACTING OFFICER.
 2. Items not reserved shall become property of the Contractor and be removed by Contractor from the Cemetery and disposed of according to state and local regulations.

1.10 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS

- A. The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this contract. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during contract performance, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the CONTRACTING OFFICER.
- B. The Contractor shall protect from damage all existing improvements and utilities at or near the work site and on adjacent property of a third party, the locations of which are made known to

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or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the CONTRACTING OFFICER may have the necessary work performed and charge the cost to the Contractor. **(FAR 52.236-9)**

- C. Refer to Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS, for additional requirements on protecting vegetation, soils and the environment. Refer to Articles, "Alterations", "Restoration", and "Operations and Storage Areas" for additional instructions concerning repair of damage to structures and site improvements.

1.11 RESTORATION

- A. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the CONTRACTING OFFICER before it is disturbed. Materials and workmanship used in restoring work, shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.
- B. Upon completion of contract, deliver work complete and undamaged. Existing work disturbed or removed as a result of performing required new work, shall be patched, repaired, reinstalled, or replaced with new work, and refinished and left in as good condition as existed before commencing work.
- C. At the Contractor's own expense, the Contractor shall immediately restore to service and repair any damage caused by the Contractor's workmen to existing piping and conduits, wires, cables, etc., of utility services or of communications systems (including telephone) which are indicated on drawings or identified by the Contractor's retained locate service and which are not scheduled for discontinuance or abandonment.
- D. Expense of repairs to such utilities and systems not shown on drawings or locations of which are unknown will be covered by adjustment to contract time and price in accordance with clause entitled "CHANGES" (FAR 52.243-4 and VAAR 852.236-88) and "DIFFERING SITE CONDITIONS" (FAR 52.236-2).

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1.12 PHYSICAL DATA

- A. Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

1. The indications of physical conditions on the drawings and in the specifications are the result of site investigations by GEOTECHNICS, a Division of Klinger, and rock probe borings by MIDWEST DRILLING, INC.

(FAR 52.236-4)

- B. Subsurface conditions have been developed by soil borings. Logs of subsurface exploration are shown diagrammatically on drawings.
- C. A copy of the soil report is found in the appendix of these specifications and shall be considered part of the contract documents.
- D. The Government does not guarantee that other materials will not be encountered nor that proportions, conditions or character of several materials will not vary from those indicated by explorations. Bidders are expected to examine the site of work and logs of borings and, after investigation, decide for themselves the character of materials and make their bids accordingly. Upon proper application to the Department of Veterans Affairs, bidders will be permitted to make subsurface explorations of their own at site.

1.13 PROFESSIONAL SURVEYING SERVICES

- A. A registered professional land surveyor or registered civil engineer whose services are retained and paid for by the Contractor shall perform services specified herein and in other specification sections. The Contractor shall certify that the land surveyor or civil engineer is not one who is a regular employee of the Contractor, and that the land surveyor or civil engineer has no financial interest in this contract.
- B. Due to the precise nature of this project, layout shall utilize survey methods suitable for variance less than 4/100's of a foot (0.04 ft). GPS may not be used for elevation layout.
- C. Prior to beginning work, the Surveyor shall verify existing inverts and prepare a report submitted to the Engineer. Notify Engineer immediately of any discrepancies found.
- D. See St. Louis Metropolitan Sewer District Standard Construction Specifications, Part 4.A for additional staking and verification requirements.

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1.14 LAYOUT OF WORK

- A. The Contractor shall lay out the work from Government established base lines and bench marks indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at the Contractor's own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the CONTRACTING OFFICER. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the CONTRACTING OFFICER until authorized to remove them. If such marks are destroyed by the Contractor or through Contractor's negligence before their removal is authorized, the CONTRACTING OFFICER may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

(FAR 52.236-17)

- B. Establish and plainly mark lines and grades that are reasonably necessary to properly assure that location, orientation, and elevations established for each such structure, road, utility, and are in accordance with lines and elevations shown on contract drawings.
- C. The Contractor shall perform the surveying and layout work of this and other articles and specifications in accordance with the provisions of Article "Professional Surveying Services".

1.15 AS-BUILT DRAWINGS

- A. The Contractor shall maintain two full size sets of as-built drawings which will be kept current during construction of the project, which will include all contract changes, modifications and clarifications.
1. All as-built elevations of rims and inverts shall be collected and drawn by a licensed land surveyor or civil engineer, retained by the contractor. Provide paper, PDF and CADD files including point data to the VA and A/E.
 2. As-builts shall be prepared by the contractor to MSD requirements including slope verification during construction, prior to restoration.
- B. All variations shall be shown in the same general detail as used in the contract drawings. To insure compliance, as-built drawings shall be made available for the CONTRACTING OFFICER's review, as often as requested.

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- C. The Contractor shall deliver two approved completed sets of as-built drawings to the CONTRACTING OFFICER within 15 calendar days after each completed phase and after the acceptance of the project by the CONTRACTING OFFICER.
- D. Paragraphs A, B, & C shall also apply to all shop drawings.

1.16 USE OF ROADWAYS

- A. For hauling, use only established public roads and roads on Cemetery property and, when authorized by the CONTRACTING OFFICER, such temporary roads which are necessary in the performance of contract work. Temporary roads shall be constructed by the Contractor at the Contractor's expense. When necessary to cross curbing, sidewalks, or similar construction, they must be protected by well-constructed bridges.
- B. When new permanent roads are to be a part of this contract, the Contractor may construct them immediately to facilitate building operations. These roads may be used by all who have business thereon within zone of building operations.

1.17 HISTORIC PRESERVATION

- A. Where the Contractor or any of the Contractor's employees, prior to, or during the construction work, are advised of or discover any possible archeological, historical and/or cultural resources, the Contractor shall immediately notify the CONTRACTING OFFICER verbally, and then with a written follow up.
- B. Recommendations and requirements contained in the Missouri SHPO letter (See Appendix) shall be followed.

1.18 PROJECT HEALTH AND SAFETY PLAN

- A. Prior to commencing any construction, the Contractor shall submit a site specific Project Health and Safety Plan (PHSP). At a minimum, the PHSP shall cover the following topics:
1. Organizational structure (including Responsible Persons)
 2. Site Characterization and Job Hazard Identification
 3. Site Control and Security
 4. Training
 5. Medical Surveillance
 6. PPE
 7. Exposure Monitoring
 8. Heat Stress
 9. Spill Containment
 10. Decontamination
 11. Emergency Response
 12. Confined Spaces
 13. Hoisting Operations
 14. Trench Safety
 15. Lockout/Tagout

1.19 CONFLICTS IN CONSTRUCTION DOCUMENT LANGUAGE

- A. Where conflicts or apparent contradictions in the construction documents occur the more stringent requirement shall govern.

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