1. **GENERAL**
   
   A. Related sections:
      
      i. 23 05 19 – Meters and Gages for HVAC Piping
      ii. 33 10 00 - Water Utilities – Public Water Distribution System
      iii. 33 12 13.13 – Water Supply Backflow Preventer Assemblies
      iv. 33 30 00 – Sanitary Sewerage Utilities – Sanitary Sewer Collection Systems
      v. 33 60 00 – Hydronic and Steam Energy Utilities
      vi. 33 71 19 – Electrical Underground Ducts & Manholes
      vii. 33 80 00 – Communications Utilities
   
   B. Utility Owner’s at The UGA, Athens, Georgia Campus
      
      Water | ACC Public Utilities or University of Georgia
      Sanitary Sewer | ACC Public Utilities or University of Georgia
      Septic Sanitary System | University of Georgia
      Storm Sewer | University of Georgia
      Electric Power | Georgia Power Company or University of Georgia
      Natural Gas | Atlanta Gas Light Company or University of Georgia
      Steam | University of Georgia
      Chilled Water | University of Georgia
      Data Communications | University of Georgia Enterprise Information Technology Services (EITS)
      Voice Communications | AT&T or EITS
      Television Cable | Charter Communications or EITS
      Fire Alarm Systems | University of Georgia (maintenance contract with Fire Protection Associates)
      Security & Access Systems | University of Georgia Public Safety Division
      Irrigation | University of Georgia Facilities Management Division Grounds Department
   
   C. Locator Notification
      
      i. The Contractor's attention is directed to the fact that there are active utilities within the work area. Utilities are owned by the University of Georgia and other public utility companies. 72 hours in advance of digging, the Contractor shall contact:
         
         a. Public Underground Utility Locator Service at 1-800-282-7411 or 811 as required by Georgia State Law.
         b. For projects on the University of Georgia, Athens, Georgia campus, University of Georgia Facilities Management Division Grounds Department at (706) 542-7450 to locate irrigation lines.
      
      ii. The Contractor shall be liable for all repair costs if he fails to properly notify utility locators as described above. Any utility line damaged by the Contractor which was marked or identified by the Owner of the utility shall be repaired by the Contractor at his own expense. In the event the Owner of the utility elects
to make the repairs with his own work force, the Contractor shall reimburse the Owner of the utility for the cost of repairs.

D. Utilities Furnished
i. Certain utilities, if owned and operated by the University of Georgia, required for work to be performed under this contract shall be furnished by the Owner at the Contractor’s expense. However, these utilities shall be furnished at the point and in the capacity that they are available adjacent to the construction site. Any utility of different pressure, capacity, type, etc. required by the Contractor that is not available within the area shall be arranged for by the Construction Manager at his own expense. Any expense involved to the Contractor in extending the utilities from the present location to the point required shall be at the Contractor’s expense and included in the Cost of the Work.

E. Modifications
i. The Contractor shall adjust all existing and new utility structures (manholes, valve boxes, etc.) to meet new grades as required to complete this project at part of the Cost of the Work.

F. Utilities
i. Accessible isolation valves, identified as to function, shall be provided at new taps from existing utilities.
ii. Provide detectable aluminum foil plastic backed tape or detectable magnetic plastic tape manufactured specifically for warning and identification of buried utility.
iii. Existing services and equipment shall be specified to be removed from site and not be abandoned in place except with the written approval of FMD.
33 10 00
WATER UTILITIES – PUBLIC WATER DISTRIBUTION SYSTEM

1. GENERAL
   A. Any work on the public water distribution system must be approved and inspected by applicable local government offices and must be performed in accordance with the local governmental regulations. In Athens-Clarke County, most water mains, fire hydrants and water meters are under the jurisdiction of The Unified Government of Athens-Clarke County (ACC). All connections to the ACC water distribution system shall be approved and inspected by ACC Public Utilities. The current version of the construction specifications published by ACC Public Utilities (available at www.athensclarkecounty.com) regarding water main construction are incorporated into this contract. The Contractor subcontractor constructing the water distribution system improvements described in this contract shall be on the ACC list of approved contractors. Final approval, acceptance and payment for work completed on the water distribution system will be contingent on acceptance of the improvements by the ACC Public Utilities. All costs associated with compliance of the water main construction requirements shall be included in the Cost of the Work or Base Bid.
1. GENERAL
   A. Any work on backflow preventers must be approved and inspected by applicable local
government offices and must be performed in accordance with the local governmental
regulations. In Athens-Clarke County the Double-Check Backflow Preventer for the fire
main connection and Reduced Pressure Zone (RPZ) Backflow Preventers for the
domestic water connections are under the jurisdiction of The Unified Government of
Athens-Clarke County (ACC). The current version of the construction specifications
published by ACC (available at www.athensclarkecounty.com) regarding cross-
connection / back flow are incorporated into the standards. All costs associated with
compliance of the cross-connection / back flow construction requirements shall be
included in the Cost of the Work or Base Bid.
   B. Building backflow preventers shall be designed and installed so that two backflow
preventers are in parallel. This will allow for annual maintenance to occur without
disruption of service.
1. GENERAL

A. Any work on the public sanitary sewer collection system must be approved and inspected by applicable local government offices and must be performed in accordance with the local governmental regulations. In Athens-Clarke County, most sanitary sewer mains and man-holes are under the jurisdiction of The Unified Government of Athens-Clarke County (ACC). All connections to the ACC wastewater system shall be approved and inspected by ACC Public Utilities. The current version of the construction specifications published by ACC Public Utilities (available at www.athensclarkecounty.com) regarding wastewater system construction are incorporated into the standards. For work within ACC, the Contractor subcontractor constructing the wastewater system improvements described in the standards shall be on the ACC list of approved contractors. Final approval, acceptance and payment for work completed on the water distribution system will be contingent on acceptance of the improvements by the ACC Public Utilities. All costs associated with compliance of the water main construction requirements shall be included in the Cost of the Work or Base Bid.

B. Prior to Material Completion, the Contractor shall camera all new sanitary sewer pipe installed exterior to the building perimeter, and 10’ beyond the connection point with existing pipe. The Contractor shall provide the Design Professional and Project Manager with an electronic copy of the video footage for review. Cost of videoing the system shall be included in the Cost of the Work or Base Bid.
1. GENERAL
   A. Related Sections:
      i. 23 00 00 General Mechanical Requirements
      ii. 23 21 13 Hydronic Piping
      iii. 23 22 13 Steam & Condensate Heating Piping
      iv. 33 00 00 General Utilities Requirements
   B. Design Professional shall specify fiber reinforced polymer composite, traffic rated, secure locking lids for heavy electrical manhole covers. New cast iron covers will not be accepted.

2. PRODUCTS
   A. Steam manhole cover equal to McGard, LLC FiberShield Manhole with lock
      i. Fiber reinforced polymer
      ii. H-20 and AASHTO HS-25 load rating for 80,000 lb.
      iii. Self-containing locking system that provides cover to frame retention and security from unauthorized entry and uses a multipurpose T-Key.
      iv. Egress handle:
         a. Provide a manual pull handle for use by individual inside the manhole a means to exit
         b. All plastic construction to resist corrosion, parts molded in high visibility yellow
         c. Pulling the handle will latch open one of the cartridge assemblies and allow the person to push the cover out of the frame and then exit.
      v. Ultraviolet radiation will not affect long term performance of composite manhole cover.
      vi. Logo Plate: Stainless Steel plate 1/8” thick that says “STEAM”.
1. **GENERAL**
   A. Related Sections:
      i. 26 00 00 General Electrical Requirements
      ii. 33 00 00 General Utilities Requirements
   B. Design Professional shall specify fiber reinforced polymer composite, traffic rated, secure locking lids for heavy electrical manhole covers. New cast iron covers will not be accepted.

2. **PRODUCTS**
   A. Electrical manhole cover equal to McGard, LLC FiberShield Manhole with lock
      i. H-20 and AASHTO HS-25 load rating for 80,000 lb.
      ii. Self-containing locking system that provides cover to frame retention and security from unauthorized entry and uses a multipurpose T-Key.
      iii. Fiber reinforced polymer
      iv. Egress handle:
          a. Provide a manual pull handle for use by individual inside the manhole a means to exit
          b. All plastic construction to resist corrosion, parts molded in high visibility yellow
          c. Pulling the handle will latch open one of the cartridge assemblies and allow the person to push the cover out of the frame and then exit.
      v. Ultraviolet radiation will not affect long term performance of composite manhole cover.
      vi. Logo Plate: Stainless Steel plate 1/8” thick that as appropriate says “ELECTRIC” or “HIGH VOLTAGE”.

---

The University of Georgia
Office of University Architects for Facilities Planning

33 71 19
ELECTRICAL UNDERGROUND DUCTS & MANHOLES
1. GENERAL
   A. Refer to related sections:
      i. 27 00 00 – General Communications Requirements
      ii. 27 05 43 – Underground Ducts & Raceways for Communications