**00 91 04**

**ADDENDUM NUMBER 04**

**Owner:** Gwinnett County Board of Commissioners

**Project:** South Scales Road Water Main Replacement

**Project No.:** M00736.64

**Addendum No.** 04

**Addendum Date:** 02/10/2026

**The following additions, deletions, modifications, or clarifications shall be made to the appropriate portions of the Contract Documents. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form.**

**ARTICLE 1 – ADDENDUM**

1.01 Amend the Contract Documents

A. Make the additions, modifications, or deletions to the Contract Documents described in this Addendum.

1.02 Acknowledge Addenda

A. Acknowledge receipt of this Addendum in the Bid Form submitted for this Project. Failure to acknowledge receipt of this addendum in the Bid Form may render the Bid as non-responsive and serve as the basis for rejecting the Bid.

**ARTICLE 2 – BID REQUIREMENTS**

2.01 No changes.

**ARTICLE 3 – SPECIFICATIONS**

3.01 Replace the following Specification Sections:

| Replace Section | | With Section | |
|---|---|---|---|
| **Section** | **Section Title** | **Section** | **Section Title** |
| 02 41 13.23 | Utility Line Removal | 02 41 13.23 | Utility Line Removal |
| 33 12 19 | Water Utility Distribution Fire Hydrants | 33 12 19 | Water Utility Distribution Fire Hydrants |
| 33 12 19.81 | Relocate and Reconnect Hydrants, Valves, and Meters | 33 12 19.81 | Relocate and Reconnect Hydrants, Valves, and Meters |

**ARTICLE 4 – DRAWINGS**

4.01 No changes.

**ARTICLE 5 – APPENDICES**

5.01 No changes.

**ARTICLE 6 – QUESTIONS**

6.01 There are four (4) locations that the new waterline crosses under the 48" water transmission line; is the County going to require only contractors that are pre-qualified to bid on large diameter waterlines to bid on this job in the event that issues arise at any of these four crossings?

A. The invitation to bid states that bidders must be prequalified under the Annual Prequalification of Contractors for Pressurized Water Mains – Subsection 1 (**small, 8" to less than 16"**). Large diameter prequalification is not required.

**END OF ADDENDUM NO. 04**

# SECTION 02 41 13.23

# UTILITY LINE REMOVAL

## PART 1 - GENERAL

### 1.1 SUMMARY

A. SECTION INCLUDES:

| Section | Title |
|---|---|
| 1.2 | References |
| 1.3 | Work Included |
| 1.4 | Submittals |
| 2.1 | Equipment |
| 3.1 | Trench Paving Removal |
| 3.2 | Milling Operations |
| 3.3 | Pipe Removal/Abandonment |
| 3.4 | Valve Abandonment |
| 3.5 | Fire Hydrant Removal |
| 3.6 | Manhole Removal/Abandonment |

### 1.2 REFERENCES

A. Drawings and general provisions of the Contract, including general and supplementary conditions and Division 1 Specification Sections, apply to this section.

### 1.3 WORK INCLUDED

A. The Contractor shall furnish all materials, tools, labor, and equipment, necessary to remove and/or abandon existing utility lines as required for the installation of proposed utility pipelines and related appurtenances under the Contract and as directed by GCDWR.

### 1.4 SUBMITTALS

A. Submit for approval, in accordance with Section 01 33 02 SHOP DRAWINGS all working drawings and schedules of materials and methods proposed to be followed in the execution of the Work under this item.

B. The Contractor shall submit photographs and/or video, sufficiently detailed, of existing conditions of project site. These shall be used to evaluate project areas that might be misconstrued as damage caused by debris, or construction material removal.

C. The Contractor shall submit for approval by the Engineer and GCDWR:
   1. Details of all caps or plugs to be installed on abandoned piping to remain in the ground.
   2. Details for restraining all existing water mains to remain in services where a portion of the main has been removed or modified.

3. Location of disposal site for all materials removed with documentation from site owner stating acceptance of each type of material to be disposed of.

## PART 2 - PRODUCTS

### 2.1 EQUIPMENT

A. Milling Equipment

1. Use power-driven, self-propelled milling equipment that is the size and shape that allows traffic to pass safely through areas adjacent to the work. Also use equipment that is:
   a. Designed to mill and remove specified depth of existing asphalt paving
   b. Equipped with grade slope controls operating from a stringline or ski and based on mechanical or sonic operation
   c. Capable of removing pavement to an accuracy of 1/8 in. (3 mm)
   d. Furnished with lighting system for night work, as necessary
   e. Provided with conveyors capable of side, rear, or front loading to transfer the milled material from the roadway to a truck.

B. Dust Control Equipment

1. Provide power brooms, vacuum sweepers, power blowers, or other means to remove loose debris or dust. Do not allow dust control to restrict visibility of passing traffic or to disrupt adjacent property owners.

## PART 3 - EXECUTION

### 3.1 TRENCH PAVING REMOVAL

A. Where trench excavation within a paved surface is required, saw cut vertical joints for the entire depth of pavement. The saw cut joints shall extend for the entire length of trench on both sides of the trench. A straight saw cut is required. Handheld saws shall not be used for trench saw cuts. Ragged edges shall be trimmed so as to provide a substantially straight line between the old and new surfaces.

B. The saw cut joints shall be a minimum of 12 inches outside of the maximum width of excavated trench.

C. Pavement shall be removed, hauled off site and disposed of in a proper legal manner. Be careful not to disturb or damage any pavement that is to remain.

## 3.2 MILLING OPERATION

A. Follow the Plans to mill the designated areas and depths, as required. Ensure the following requirements are met:

B. Schedule the construction operation. Use milling methods that will produce a uniform finished surface and maintain a constant cross slope between extremities in each lane.

C. Provide positive drainage to prevent water accumulation on the milled pavement, as shown on the Plans or directed by the Engineer.

D. Bevel back the longitudinal vertical edges greater than 2 in (50 mm) that are produced by the removal process and left exposed to traffic. Bevel them back at least 3 inches for each 2 inches (75 mm for each 50 mm) of material removed. Use an attached mold board or other approved method.

E. Remove dust, residue, and loose milled material from the milled surface. Do not allow traffic on the milled surface and do not place asphaltic concrete on the milled surface until removal is complete.

F. The reclaimed asphaltic pavement becomes the Contractor's property unless otherwise specified.

## 3.3 PIPE REMOVAL/ABANDONMENT

A. The Contractor shall be responsible for removal of any existing utility pipeline that is to be abandoned that interferes with the installation of the proposed pipelines. Prior to removing any portion of existing pipelines, the Contractor shall obtain approval from GCDWR.

B. The Contractor shall isolate the portion of the pipeline to be removed using existing isolation valves. Any service connections on the pipeline to be removed shall be transferred to the new pipeline or an existing pipeline which will keep the meter in service, prior to isolation of the pipeline.

C. The ends of piping to remain in the ground shall be suitably capped or plugged to prevent water or soil from entering the pipe.

D. Any existing pipelines that have a portion of pipe removed and are to remain in service shall be properly restrained with rodding and/or thrust blocking to prevent movement of the remaining pipe.

E. The Contractor shall follow all applicable codes and regulations for removal of hazardous materials, such as asbestos cement pipe, and dispose of in a legal and proper manner.

F. The Contractor shall load, haul away, and dispose of material in a legally permitted location, any debris, trash, structures, piping, etc. removed from the worksite.

## 3.4 VALVE ABANDONMENT

A. Buried valves that are to be abandoned shall be fully closed. The valve box shall be removed and the hole filled with suitable material and compacted. If the valve is within a paved location, the hole shall be capped with matching materials (asphalt, concrete, etc.). If the valve is at the end of a water main that is to remain in service, the valve shall be plugged and restrained to prevent leaks.

## 3.5 FIRE HYDRANT REMOVAL

A. Fire hydrants to be removed shall be removed in accordance with Section 33 12 19.81 entitled "Relocate and Reconnect Hydrants, Valves, and Meters" of these specifications.

## 3.6 MANHOLE REMOVAL/ABANDONMENT

A. The Contractor shall be responsible for removal of any existing manhole that is to be abandoned that interferes with the installation of the proposed sewer or force main. Prior to removing any manholes, the Contractor shall obtain approval from GCDWR.

B. Where manholes are to be removed, the Contractor shall excavate the manhole; remove the manhole and connecting piping, as required, backfill and compact the void with approved material. If the manhole is located within a road, parking area, driveway or other paved area, the backfill shall be compacted to at least 98% of maximum dry density - Standard Proctor (ASTM D698). If the manhole is located in an unpaved area, the backfill shall be compacted to 85% of maximum dry density - Standard Proctor (ASTM D698), and slightly mounded to allow for settlement.

C. Where manholes are to be abandoned in place, the Contractor shall grout seal the ends of all pipes entering the manhole, fracture the invert of the manhole to allow for drainage, cut the top of the manhole off to a minimum of three feet (3') below finished grade, fill the manhole with #57 stone, and backfill and compact with suitable fill material. If the manhole is located within a road, parking area, driveway or other paved area, the backfill shall be compacted to at least 98% of maximum dry density - Standard Proctor (ASTM D698). If the manhole is located in an unpaved area, the backfill shall be compacted to 85% of maximum dry density - Standard Proctor (ASTM D698) and slightly mounded to allow for settlement.

END OF SECTION 02 41 13.23

# SECTION 33 12 19

# WATER UTILITY DISTRIBUTION FIRE HYDRANTS

## PART 1 - GENERAL

### 1.1 SUMMARY

A. SECTION INCLUDES:

| Section | Title |
|---|---|
| 1.2 | References |
| 1.3 | Work Included |
| 1.4 | Submittals |
| 2.1 | Accessories |
| 2.2 | Hydrants |
| 2.3 | Automatic Flushing Device |
| 3.1 | Painting, Coating, and Lubricating |
| 3.2 | Setting Hydrants |

B. RELATED SECTIONS

The following listed sections do not purport to be all inclusive, as it is the Contractor's responsibility to do all the Work in accordance with the Contract Documents.

1. Water Utility Distribution Valves (33 12 16).

### 1.2 REFERENCES

A. Drawings and general provisions of the Contract, including general and supplementary conditions and Division 01 Specification Sections, apply to this section.

### 1.3 WORK INCLUDED

A. The Contractor shall, under this item, furnish and install at the locations indicated on the Drawings or as directed all fire hydrant assemblies necessary or required for the proper completion of the Work under this Contract.

### 1.4 SUBMITTALS

A. Submit for approval, in accordance with Section 01 33 02 SHOP DRAWINGS, all working drawings and schedules of materials and methods proposed to be followed in the execution of the Work under this item.

B. Submittals shall show in detail the size of all fire hydrants and accessories to be used in construction, including product data, materials of construction, and operation and maintenance data.

## PART 2 - PRODUCTS

### 2.1 ACCESSORIES

A. The Contractor shall furnish one (1) adjustable hydrant wrench for each ten (10) hydrants installed, or fraction thereof. Wrench to be Pollard No. P-665-1, or equal. Final payment shall be withheld until all accessories are provided to GCDWR.

### 2.2 HYDRANTS

A. Fire hydrants shall be manufactured in full compliance with the American Water Works Association Standard for Dry - Barrel Fire Hydrants, C502-80, and as herein amended. Hydrants approved for use are American Flow Control B-84-B-5, M&H 129, Mueller IMP-PRT2, Clow Medallion, U.S. Metropolitan 250 M-94, or EJ 5CD250, or equal.

B. Type - Three-way, post type, dry top traffic model with compression main valve opening against and closing in the direction of normal water flow.

C. Size - Internal main valve diameter shall be a minimum of 5-¼".

D. Identification - Each hydrant shall have the name of the manufacturer, the year when made, and the nominal valve size in legible, raised letters cast on the barrel or bonnet.

E. Dry Top Bonnet - Each hydrant shall be constructed with a moisture-proof lubricant chamber which encloses the operating threads, and which provides automatic lubrication of the threads and bearing surfaces each time the hydrant is operated. This assembly shall be comprised of a top "O" ring serving as a dirt and moisture barrier and lower "O" ring which shall serve as a pressure seal.

F. Operating Nut - The operating nut shall be of regular pentagon shape measuring 1-½" point to flat, i.e., National Standard, and shall open by turning counter-clockwise (left). Nozzle caps shall have the same cross-section as the operating nut and shall come with heavy duty, non-kinking chains. Chains shall be securely affixed to the hydrant upper barrel and permit free turning of the caps.

G. Traffic Design - The hydrant barrel sections shall be connected at the ground line in a manner that shall prevent damage to the hydrant when struck by a vehicle. The main valve rod sections shall be connected at the ground line by a frangible coupling. The standpipe and ground line safety construction shall be such that the hydrant nozzles can be rotated to any desired position without disassembling or removing the top operating components and top section of the hydrant standpipe.

H. Main Valve - The main valve shall be made of synthetic rubber and formed to fit the valve seat accurately.

I. Main Valve Seat - The main valve seat shall be of bronze and its assembly into the hydrant shall involve bronze to bronze thread engagement. Two (2) "C" ring seals shall be provided as a positive pressure seal between the bronze seat ring and the shoe. The valve assembly pressure seals shall be obtained without employment of torque compressed gaskets. The hydrants shall be designed to allow the removal of all operating parts through the hydrant barrel by means of a single, lightweight disassembly wrench without excavating.

J. Drain - The drain mechanism shall be designed to operate automatically with the operation of the main valve and shall allow a momentary flushing of the drain ports. A minimum of two (2) internal and two (2) external bronze lined drain ports shall be required in the main valve assembly to drain the hydrant barrel.

K. Inlet Connection - Cast iron inlet elbow shall have a 6-inch mechanical joint connection complete with accessories.

L. Extensions - Barrel extension sections shall be available in 6-inch increments complete with rod, extension coupling, and the necessary flanges, gaskets, and bolts so that extending the hydrant can be accomplished without excavating.

M. Nozzles - No lead shall be allowed in nozzle installation.

N. Testing - All fire hydrants shall be tested in strict accordance with ANSI/AWWA-C502 at the supplier's expense. Certificate of Compliance shall be furnished to GCDWR upon their request.

## 2.3 AUTOMATIC FLUSHING DEVICE

A. Automatic flushing device shall have a 1" brass FIP inlet, leading vertically into a 1" automatic solenoid valve. Automatic solenoid valve shall have an internal, self-cleaning debris screen, and have a 220-psi rating. Each unit shall be furnished with a stand-alone valve controller. Valve controllers shall not require a second hand-held device for programming. Controller shall have a minimum of 9 possible flushing cycles per day, shall be submersible to 12 feet, operate with 9-volt battery and have resin-sealed electrical components. Solenoids shall have no loose parts when removed from the valve. Each unit shall have a single valve, all brass, sampling point. Removal of the 1" solenoid valve shall be possible via an o-ring connector located under the valve after removal of the stainless-steel access plate. The valve assembly shall be housed in a PVC enclosure and each unit shall be self-draining, non-freezing. All above-ground components shall be contained within a UV-resistant locking cover. Automatic flushing valves shall be as manufactured by Kupferle Water Solutions, or approved equal.

# PART 3 - EXECUTION

## 3.1 PAINTING, COATING, AND LUBRICATING

A. All iron parts of the hydrant, inside and outside, shall be thoroughly cleaned and thereafter, unless otherwise stipulated, all surfaces except the exterior portion above the ground line shall be coated or painted with, or dipped in, an asphalt or bituminous base paint or coating. If these parts are painted, they shall be covered with two (2) coats, the first being allowed to dry thoroughly before the second coat is applied.

B. The outside of the hydrant valve above the finished ground line shall be thoroughly cleaned and thereafter painted in the shop with two (2) coats of Koppers Primer 621 or Owner approved equal. After installation, each hydrant shall be painted with two (2) field coats of Glamortex Enamel as manufactured by the Inertol Company or Owner approved equal; color to be silver.

C. All bronze, threaded, and contact moving parts shall, during shop assembly, be lubricated and protected by a coating of rust proof compound to prevent damage in shipment and storage.

3.2 SETTING HYDRANTS

A. Hydrants shall be placed at the locations indicated on the Drawings in a manner to provide complete accessibility and so that the possibility of damage from vehicles or injury to pedestrians shall be minimized. Contractor shall install proper "bury" hydrants or shall use, at no cost to GCDWR, proper length extensions to ensure that each fire hydrant is installed in accordance with the manufacturer's recommendation and the requirements of the Specifications. When placed behind the curb, the hydrant barrel shall be so set that no portion of the pumper or hose nozzle caps shall be less than six (6) inches, nor more than twelve (12) inches from the gutter face of the curb. Place gravel as shown on the Drawings. All pipes connecting the fire hydrant to the main line shall be ductile iron pipe meeting these specifications or approved connecting pieces.

B. The use of PVC pipe for hydrant branch piping is specifically prohibited. The connection of the hydrant to the supply main must be through either a Ductile Iron Tee or a tapping sleeve and include an outlet valve at the point of connection. Using a tapping sleeve where the Drawings indicate a Tee shall not result in any additional cost to GCDWR.

END OF SECTION 33 12 19

# SECTION 33 12 19.81

# RELOCATE AND RECONNECT HYDRANTS, VALVES, AND METERS

## PART 1 - GENERAL

### 1.1 SUMMARY

A. SECTION INCLUDES:

| Section | Title |
|---|---|
| 1.2 | References |
| 1.3 | Work Included |
| 1.4 | Submittals |
| 3.1 | Existing Materials and Appurtenances |
| 3.2 | Work |

B. RELATED SECTIONS

The following listed sections do not purport to be all inclusive, as it is the Contractor's responsibility to do all the Work in accordance with the Contract Documents.

1. Excavation and Fill (31 23 00).
2. Precast Concrete Utility Structures (33 05 16.13).
3. Ductile Iron Pipe (33 11 13.05).
4. Water Utility Distribution Fire Hydrants (33 12 19).

### 1.2 REFERENCES

A. Drawings and general provisions of the Contract, including general and supplementary conditions and Division 1 Specification Sections, apply to this section.

B. The Contractor shall perform the Work of this item with due regard to the requirements of Section 33 11 13.05 Ductile Iron Pipe as concerns authorized shutdowns, the overrun of authorized shutdowns, and hours for authorized shutdowns.

### 1.3 WORK INCLUDED

A. The Contractor shall, where specified, indicated on the Drawings, or directed by the Engineer, disconnect, relocate, and reconnect existing hydrants, check valves, and water meters.

### 1.4 SUBMITTALS

A. Submit for approval, in accordance with Section 01 33 02 SHOP DRAWINGS, all working drawings and schedules of materials and methods proposed to be followed in the execution of the Work under this item.

B. Submittals shall show, in detail, the size and location of all hydrants, valves, meters, and accessories to be used in construction.

C. Per Section 33 05 16.13 Precast Concrete Utility Structures, Contractor shall furnish and install a pre-cast concrete vault with aluminum hatch. Shop drawings for the vault and hatch must be approved by the Engineer prior to installation.

## PART 2 - PRODUCTS – (NOT USED)

## PART 3 - EXECUTION

### 3.1 EXISTING MATERIALS AND APPURTENANCES

A. Existing valves and hydrants, which are suitable for reuse, shall be cleaned and, if required, shall have their internal parts reworked, and shall be properly placed in the project where indicated on the plans. Outlets on hydrants shall be oriented parallel to the road.

B. The Contractor shall perform the disconnecting, relocating, and connecting carefully so as to avoid damaging the materials or appurtenances. Materials or appurtenances damaged in the course of the Work shall be replaced or repaired by the Contractor at his own expense and to the approval of GCDWR.

### 3.2 WORK

A. Relocate/Reconnect Existing Hydrant - Includes disconnection from existing mains, plugging and blocking openings in the main and reconnecting and/or relocating hydrant to new main in accordance with the manufacturer's recommendations and the requirements of these specifications. The placement of the relocated hydrant shall meet the requirements for fire hydrant installation as shown on the Drawings and/or specified in Section 33 12 19.

B. Adjust Existing Hydrant – Where indicated on the Drawings or directed by the Engineer, the Contractor shall raise or lower the above ground portion of an existing hydrant to the elevations indicated or directed by the Engineer. All work shall be completed with compatible parts as provided by the fire hydrant manufacturer, or GCDWR approved equal.

C. Remove Hydrants and/or Valves – Includes removal of the hydrant, closing and plugging of hydrant valve, and abandonment of hydrant valve in place per these specifications. Contractor can recycle the old hydrant at their discretion.

D. Relocate Large Meter/Check Valve/Vault - Relocate 3", 4", 6", and 8" water meters or check valves including removal of the existing meter and vault and reinstallation of the existing meters and vaults to the new location. Existing meters and vaults shall be carefully removed, stored (if construction phasing requires), and properly reinstalled in the project (including all excavation and backfilling) where indicated or as required.

E. Furnish and Install Concrete Vault - Vault shall be pre-cast concrete with aluminum hatch meeting the requirements of Section 33 05 16.13 of these specifications.

F. Adjust Valve Box – Where indicated on the Drawings, required by existing or proposed grades, or as directed by the Engineer, the Contractor shall make adjustments to existing valves boxes so they are flush with grade. Adjustments shall be made by adding or removing sections of ductile iron pipe beneath the valve box. In non-paved locations, a concrete ring shall be placed around the top of the valve box. If the existing valve box is not plumb or centered over the operating nut, the Contractor shall re-center and the valve box and return it to a plumb position. Where valves are to be abandoned, the Contractor shall close the valve, remove the valve box, fill the resulting hole with suitable compacted fill material, and restore the surface to match the surrounding area. This work shall include all excavation, backfill, and restoration required to set the valve box as directed and return the site to its preconstruction conditions.

G. All Work performed under this item shall be performed at the locations and in the manner indicated in the Drawings or as otherwise required by GCDWR.

END OF SECTION 33 12 19.81