



CITY OF MORGAN HILL

17575 Peak Avenue
Morgan Hill, CA 95037-4128
TEL: (408) 778-6480
FAX: (408) 779-7236
www.morganhill.ca.gov

Addendum No. 1

DATE: April 21, 2025

TO: ALL PLANHOLDERS OF THE ~~JACKSON OAKS~~ 2025 MORGAN HILL WATER MAIN REPLACEMENT PROJECT

FROM: YAT CHO – PROJECT ENGINEER

RE: CLARIFICATIONS

1. Replace Technical Specifications, D4 Water with the Attached Revised D4 Water Section

ADDENDUM ACKNOWLEDGMENT

Bidder acknowledges receipt of this addendum, which shall be attached to the proposal.

Contractor's Representative

Date

THIS DOCUMENT SHALL BECOME A PART OF THE PROJECT SPECIFICATIONS

REVISED D4 WATER

All Water work shall be conducted in conformance with the latest City of Morgan Hill Public Works Department Standard Plan General Notes W-I, W-II, W-III, W-IV and Standard Details.

4.01 POTHOLING

- a. Description: The Contractor shall pothole and verify the location and depth of existing utilities prior to excavating to install the water main. The contractor shall submit a report to the Engineer documenting the location, depth, size and material of the utilities found.
- b. Measurement and Payment: The contract unit price paid for each pothole location for Potholing under Bid Schedule I and Bid Schedule II, Bid Item 6, shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all the work involved in Potholing, including all traffic control, flagging and temporary backfilling or steel plating, complete in place, as shown in the plans, as specified in the technical provisions and as directed by the Engineer and no additional compensation will be allowed, therefore.

4.02 8" WATER MAIN

- a. Description: C900 water mains shall be constructed to the lines shown on the plans and with the minimum 36" cover as specified.

At his own expense, the Contractor shall adjust the grades of the water line as approved by the Engineer to clear all existing shown utilities by a minimum of 12" vertically, and to maintain minimum cover.

The scope of the water main construction shall also include excavation, pipelaying, dewatering, backfill, compaction, spoil removal, pavement saw cutting and removal, temporary trench surfacing/cut back, pavement restoration, shoring (when required), trench protection, testing and sterilization. Water line shall include all fittings as shown on the Plans.

Exact location of all new water mains shall be confirmed by the Engineer.

Contractor shall allow access to driveways using steel plates as necessary to not impeded access for businesses or residents.

Testing requirements shall conform to the City of Morgan Hill Public Works Department Standard Plans.

b.Materials:

C900/ C905:

1. **Pipe shall meet the requirements of AWWA Standard C900/ C905, Pressure Class 200 psi. DR18, Class 235.**

2. Fittings:**a. Ductile iron**

- 1) **Flanged or mechanical joint, as shown in the Drawings.**
- 2) **Class 350**

3. Joints:**a. Push-on:**

- 1) **ASTM D3139**
- 2) **Push-on gaskets: ASTM F477**

4. Restraints:

- a. **Mechanical joints: EBAA Megalug Series 2000PV or approved equal.**
- b. **Push-on joints: EBAA Series 2500 restraint harness, Uni-Flange Series 1350 PVC pipe bell joint restraint, or approved equal.**

Thrust blocks shall be constructed of Class B concrete in accordance with the City of Morgan Hill Standard Details. Restrained joint pipes still require thrust blocks.

4-inch through 12-inch gate valves shall be Mueller A-2360-16 or approved equal meeting the requirements of AWWA/C509. 16-inch gate valves shall be Mueller A-2361-16 or approved equal meeting the requirements of AWWA/C515. Flanged ends shall meet the requirements of ANSI B16.1, class 125. Mechanical joint ends shall meet the requirement of AWWA C111. All valves shall be resilient wedge, non-rising stem, and double O ring equipped.

- b. **Submittals:** Submit product data for pipe, fittings, gaskets, valves, thrust restraint devices and other accessories. Submit disinfection certificate.
- c. **Cleaning and Testing:** After installation and before final connection to existing mains, all water mains shall be flushed at 2.5 fps (main line velocity) with clean water. If necessary, a pump shall be used to obtain the required 2.5 fps and the pipe shall be left thoroughly clean.

Water mains shall be tested for leakage at the lower end of the line under a hydrostatic pressure of 150 psi, or 50% above normal operating pressure, whichever is greater. All joints shall be examined during the test, and all visible leaks shall be repaired. The Contractor shall furnish all necessary tools, labor, materials, and appliances needed for the test. Mains shall be filled slowly and provisions shall be made for venting the air. All lines shall be tested for the duration of two hours.

After testing, and before putting into service, all water mains shall be chlorinated by the Contractor in accordance with AWWA C651 and as directed by the Engineer. Chlorine shall be furnished by the Contractor and the chlorination shall be supervised by the Engineer. Chlorination by placing chlorine tablets in each section of pipe will be allowed. The number of tablets shall be in accordance with the recommendations of the chlorine tablet manufacturer.

Chlorination by tablet shall be in accordance with all applicable sections of the AWWA C651 and held for a duration of 24 hours.

The Contractor shall provide the City with a laboratory report certifying the bacteriological disinfection of water as a condition of acceptance of the water line by the City.

d. Measurement and Payment: The contract price paid per linear foot for 8-inch C900 Water Main under Bid Schedule I, Bid Item 10 and Bid Schedule II, Bid Item 9, shall include full compensation for furnishing all labor, material, equipment, tools, and incidentals and for doing all the work involved in C900 water line, complete in place, including installation, connection to valves, all fittings, and reducers, thrust blocks, as well as testing and all work and materials involved in trenching, dewatering, trench protection and backfill, saw cutting, removal or abandonment of existing mains, valves, removal and restoration of all surfaces, as shown in the plans, as specified in the Standard Specifications and these technical specifications, and as directed by the Engineer.

The contract unit price paid for 8-inch Gate Valve and Valve Box under Bid Schedule I, Bid Item 11 and Bid Schedule II, Bid Item 10 as listed in the bid schedule, shall include full compensation for furnishing all labor, materials, equipment, tools, and incidentals and for doing all the work involved in installing gate valves on new or existing mains, complete in place, including installation, connection to proposed C900 water mains, riser, valve boxes/lids, testing, disinfection, sterilization, and all work and materials involved in surface and trench restoration, as shown in the plans, as specified in the Standard Specifications and these technical provisions, and as directed by the Engineer.

Full compensation for all appurtenances related to the installation of water lines, as detailed in the City of Morgan Hill Public Works Department Standard Plans shall be considered as included in contract price paid per linear foot for Ductile Iron Pipe Water Main, and no separate payment will be made therefore.

Full compensation for backfill, dewatering, pavement restoration, and/or to replace all existing facilities disrupted by the construction and installation of Ductile Iron Pipe Water Main shall be considered as included in contract price paid per linear foot for Ductile Iron Pipe Water Main and no separate payment will be made therefore.

4.03 EXISTING FACILITIES

a. Description: The work performed in connection with various existing highway and utility facilities shall conform to the provisions in Section 15, "Existing Highway Facilities," of the Standard Specifications and these Technical Provisions.

The work involved in this section includes, but is not limited to the following: Abandon, removal and reconstruction of existing facilities, modification and removal of concrete structures, and protecting existing facilities to remain

- 1. ABANDON EXISTING WATER MAIN** – This work shall consist of disconnecting and capping water lines at the locations shown on the plans, when no longer needed. The contractor shall remove existing water mains to be abandoned if they interfere with the new work. Contractor shall dispose of removed materials offsite in accordance with applicable regulations.

Water mains to be abandoned shall remain in service until new mains have been installed, tested and placed into service and all domestic and fire services have been transferred. This work shall consist of abandoning existing water main in place, disconnecting and capping water lines at the locations shown on the plans, when no longer needed. The Contractor shall remove existing ACP water mains to be abandoned if they interfere with the new work. The contractor shall dispose of removed materials off site in accordance with applicable regulations.

- 2. ABANDON EXISTING WATER VALVE AND REMOVE VALVE BOX** – This work shall consist of the removal of the existing water valve and valve box at the locations shown on the plans, when no longer needed. The ends of the abandoned water main shall be filled with slurry cement and capped.

- a. **Materials:** Water mains abandoned in place shall be filled with slurry cement or controlled density fill (CDF) and capped in conformance with the provisions in Section 19-3.02, "Slurry Cement Backfill," of the Standard Specifications, the Engineering Drawings, and these Technical Provisions, except that aggregate shall be concrete sand.
- b. **Submittals:** Submit product data for slurry cement backfill.
- c. **Measurement and Payment:** The contract unit price paid for each Abandon Water Valve and Remove Valve Box under Bid Schedule I, Bid Item 7 and Bid Schedule II, Bid Item 7 and Abandon Existing Water Main under Bid Schedule I, Bid Item 8 and Bid Schedule II, Bid Item 8 shall be considered as included in the contract items of work involved, and no separate payment will be made therefore. All work involved to abandon water valve and remove valve box and to abandoning water main in place includes; slurry filling, demolition, and removal of existing valve and valve box, removing pipe and materials off site, as well as including all saw cutting, removal and restoration of all surfaces, trenches and appurtenances, disconnecting and protecting existing services and laterals, as shown in the plans, as specified in the Standard Specifications and these Technical Provisions, and as directed by the engineer. The cost of removing existing water that interfere with the construction of the Work shall be considered as included in the contract items of work involved, and no separate payment will be made therefore.

4.04 CONNECTIONS TO EXISTING WATER MAINS

- a. **Description:** Connection to existing water mains shall include all necessary fittings, valves, flanges, and caps to make a connection to an existing water main as shown on the drawings. Also included in the scope of work is all required notification of residents/property owners,

coordination with City Staff, night work hour premiums, excavation, backfill, compaction, surface restoration, testing, and sterilization. The Contractor shall expose the existing main prior to connection and verify the main diameter and type. The Contractor shall make all adjustments necessary to complete a watertight and sound connection to the existing main regardless of type of main.

All water service shut-downs shall be performed during the hours of 10 pm to 5 am, Monday through Thursday only, as to not inconvenience residents and businesses. Contractor shall submit connection products for review and approval prior to installation.

Connection to existing water mains shall be accomplished by removing the appropriate section of pipe and replacing the section with appropriate lengths of pipe as shown on the drawings. Flanged coupling adapters shall be Rockwell, Dresser, Smith-Blair or approved equal.

Fittings shall be installed with MEGALUG then backed up with thrust blocks. Contractor shall install elbow thrust blocks for horizontal and downward thrusts, elbow thrust blocks for upwards thrusts, and tee thrust blocks for gate typical valve installations.

Testing requirements shall conform to the City of Morgan Hill Public Works Department Standard Plans.

- b. Materials: Flanged coupling adapter (Smith-Blair 921 or equal) shall be used at the connection to the main on Oakview Circle for transition from proposed C900 to existing DIP or ACP.
- c. Measurement and Payment: The contract unit price paid for Water Tie-In to Existing Water Mains under Bid Schedule I, Bid Item 12 and Bid Schedule II, Bid Item 11 per location shall include full compensation for furnishing all labor, material, equipment, tools, and incidentals and for doing all the work involved in Connections to Existing Water Mains, complete in place, including installation, testing, disinfection, thrust blocks, accessories, excavation, dewatering, surface restoration, as shown in the plans, as specified in the Standard Specifications and these technical specifications, and as directed by the Engineer.

4.05 NEW WATER SERVICE

- a. Description: Existing water service shall be verified, replaced and connected to the new water main where shown on the Plans, complete, including Type "K" copper pipe, saddle, corporation stop, curb stop, or as directed by the Engineer in accordance with these specifications.

Exact location of all water services shall be verified by the Engineer.

At his own expense, the Contractor shall adjust the grades of the water line as approved by the Engineer to clear all existing shown utilities by a minimum of 12" vertically, and to maintain minimum cover.

The scope of the water service construction shall also include excavation, pipelaying, backfill, spoil removal, temporary trench surfacing, pavement restoration, shoring, trench protection, testing and sterilization. Water service shall include all in-line valves, corporation stops, curb stops, saddles and fittings.

All services and connections shall be constructed in accordance with the City of Morgan Hill Standard Details.

All water service shut-downs shall be performed during the hours of 10 pm and 5 am, Monday through Thursday only, as to not inconvenience residents and businesses. Contractor shall submit connection products for review and approval prior to installation.

Testing requirements shall conform to the City of Morgan Hill Public Works Department Standard Plans.

- b. Materials: Copper pipe shall be Type 'K'. Fittings shall be compression type. Bronze double strap service clamp with a corporation stop (Mueller H15008 or equal) shall be used at the connection to the main. Angle curb stops shall be Mueller No. H14258 or approved equal.

All materials shall be in accordance with the City of Morgan Hill Standard Details. Backfill and pavement restoration shall be in accordance with the construction details shown in the plans.

- c. Submittals: Submit product data for water service components.
- d. Measurement and Payment: The contract unit price paid for each 1" Water Service (Bid Schedule I, Bid Item 13, 1.5" Water Service (Bid Schedule I, Bid Item 14), 4" Water Service (Bid Schedule I, Bid Item 15), 6" Fire Hydrant Service (Bid Item I, Bid Item 16), regardless of service size or length, shall include full compensation for furnishing all labor, material, equipment, tools, and incidentals and for doing all the work involved in water service, complete in place, including installation, dewatering, connections to water main, water meter, and residential/commercial service and manifolds, adjustment of water meter and meter box or water service manifold, testing, and all work and materials involved in surface (concrete) and trench restoration, as shown in the plans as specified in the Standard Specifications and these Technical Provisions, and as directed by the Engineer.

Full compensation for all appurtenances related to the installation of water services, as detailed in the City of Morgan Hill Public Works Department Standard Plans shall be considered as included in contract unit price paid under the various water service bid items and no separate payment will be made therefore.

Full compensation for dewatering, backfill, pavement restoration, and/or to replace all existing facilities disrupted by the construction and installation of water service shall be considered as

included in contract unit price paid under the various water service bid items and no separate payment will be made therefore.

4.06 NEW FIRE HYDRANT

- a. Description: New tee, hydrant valve, pipe, bury, concrete thrust blocks, and breakaway spools shall be installed conforming to the City of Morgan Hill Standard Details for Construction. New fire hydrants shall conform to Section 33-02.08, "Fire Hydrants," of the Standard Provisions.

Fire hydrants shall be installed with hollow breakaway bolts.

Hydrants shall be painted "Yellow" with rust preventative paint "Aervoe" or approved equal.

New fire hydrants shall not be installed until the exact location has been determined in the field. The exact field location will be determined in coordination with the Engineer.

- b. Materials: New fire hydrant assembly shall conform to City Standard Details.
- c. Measurement and Payment: The contract unit price paid for Bid Schedule I, Bid Item No. 17, Fire Hydrant Installation, shall constitute the full compensation for furnishing all labor, materials, tools, and equipment to furnish and install the fire hydrant, including, but is not limited to, excavation, 6" gate valve, break-off riser, anchor block, pipe restraints, thrust block, red curb, blue marker, piping from main to hydrant, fittings, backfill, pavement and sidewalk restoration, curb and gutter restoration, yard/drive restoration where required, and all incidentals, complete in place, as shown on the Plans and Standard Detail, as specified in these specifications, and as required by the Engineer. Payment for this Item 15 shall be made at the contract unit price per each.

4.07 REMOVE EXISTING FIRE HYDRANT

- a. Description: Existing fire hydrants shown to be removed on the Plans shall be removed together with a minimum of 36" of the fire hydrant supply line from edge of the pavement. The Contractor shall deliver the removed fire hydrant to the City or legally disposed per city's requirement. Other items from the removal shall be disposed of by the Contractor in a legal manner. The remaining supply pipe shall be plugged with Portland cement concrete a minimum of 6" into the pipe end and shall be abandoned in-place.

When an existing fire hydrant shown to be removed on the Plans is located behind the back of the pavement or curb on a concrete pad, this concrete pad shall be removed as well. The concrete pad shall be sawcut from the edge of the pavement or curb.

The valve on the abandoned fire hydrant service laterals shall be closed and the valve box and lid removed and the resulting hole filled with concrete to the bottom of the adjoining AC pavement. AC pavement shall be placed to the finished grade after concrete has set (24-hour minimum).

Existing fire hydrants shall not be taken out of service until the new water main and fire hydrants are tested and placed into service or at such time as to facilitate such a transition. If deemed necessary, the City may permit the Contractor to take an existing fire hydrant out of service prior to the time at which the new fire hydrant is in service. However, such permission shall be at the sole discretion of the City and the Contractor shall not remove a hydrant from service without the approval of the City.

When a fire hydrant needs to be taken out of service, the fire hydrant shall be bagged, clearly marked and readily identifiable as not being in service. After the fire hydrant is removed, the Contractor shall remove existing red curb mechanically by wire brushing, abrasive blast cleaning, or other methods approved by the Engineer.

- b. Measurement and Payment: The contract unit price paid for Bid Schedule I, Bid Item No. 9, Remove Fire Hydrant, shall constitute the full compensation for furnishing all labor, materials, tools, and equipment to remove the existing fire hydrant, including, but is not limited to, excavation, removal and salvage/disposal of hydrant and supply line, removal of hydrant bury, breakoff riser, pipe spools, plugging remaining supply line, abandoning valve, removing valve box, backfilling, pavement restoration, delivery of old hydrant to City or disposal, and all related work, complete in place, as shown on the Plans, as specified in these specifications, and as required by the Engineer.