



DEVELOPMENT SERVICES CENTER  
PUBLIC WORKS DEPARTMENT  
17575 PEAK AVENUE  
MORGAN HILL, CA 95037-5301  
ENGINEERING: 408-778-6480  
FAX: 408-779-7236  
WWW.MORGANHILL.CA.GOV

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**ADDENDUM NO. 2**

**DATE: AUGUST 4, 2017**  
**TO: ALL PLAN HOLDERS OF THE:**  
**HIGHLAND AVENUE SEWER UPGRADE PROJECT**  
**FROM: LYNETTE KONG – CITY OF MORGAN HILL**  
**SUBJECT: ADDITIONS/CHANGES**

The Bid Opening Date has been changed to “on or before Thursday, August 10, 2017, at 2:30 p.m. at the Development Services Center office, located at 17575 Peak Ave., Morgan Hill, California.”

**UNDER "TECHNCIAL SPECIFICATIONS"**

- 1) REPLACE:**  
Section 3.08 – “Sewage Bypassing”  
**WITH:**  
Revised Section 3.08 – “Sewage Bypassing”
  
- 2) ADD:**  
Appendix A: Figure 1 – “Historical Flow Statistics at Harding Meter”

**ADDENDUM ACKNOWLEDGMENT**

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

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Contractor’s Representative

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Date

**THIS DOCUMENT AND THE ATTACHMENTS SHALL BECOME PART OF THE  
PROJECTS SPECIFICATION**

attachments: REVISED SECTION 2.08 “SEWAGE BYPASSING”, APPENDIX A: FIGURE 1 “HISTORICAL FLOW STATISTICS AT HARDING METER”

### 3.08 SEWAGE BYPASSING

- a. Description: This specification covers the work necessary to install temporary sewage bypassing systems needed to dewater the sewers for installation of new sanitary sewer main and manholes, and/or rehabilitation of existing sewer manhole facilities while maintaining continuous sewer service. Trunk sewer flows shall be pumped around the work area or diverted with flow through plugs. The system shall include all necessary pumps, power sources, plugs, appurtenances, and bypass piping necessary to maintain flows and services.

A mandatory field meeting shall be conducted to discuss the traffic control prior to design and submittal of the traffic control plan and the sewage bypass pumping plan. The meeting shall be attended by the Contractor (foreman, project manager, and person in charge of bypass pumping), the Engineer, and the City. Based on the field meeting, submit a bypass pumping plan for each location at least twenty (20) working days prior to sanitary sewer facility installation. The CONTRACTOR'S plan for the sewer bypassing system shall be approved by the Engineer before the CONTRACTOR proceeds to install the system. Include the following documents:

- Site Drawings prepared in conjunction with the traffic control plans, and shown on the same drawings as the traffic control plans. The drawings shall include the staging area for the pumps and power sources, location of suction and discharge piping, and location and type of sewer plugs.
- Calculations to support the pump and pipe size selection, including plots of the system and pump curves. Calculations shall be prepared and stamped by a licensed California Civil or Mechanical Engineer.
- Emergency Response Plan to be followed in the event of a failure of the sewage bypassing system.
- Operation Plan that describes how the system will be monitored and controlled.

Contractor shall refer to Appendix A, "Historical Flow Statistics at Harding Meter", representing actual sewer trunk flow data from an active flowmeter located within the existing 21" sanitary sewer manhole facility, adjacent to 12690 Harding Avenue, San Martin.

- b. Materials: Pumps, piping, and appurtenances shall be suitable for use with sewage and be suitable for the design pressures. Plugs shall include tethers.
- c. Execution: The pumped sewage shall be in an enclosed hose or pipe that is adequately protected from traffic, and shall be redirected into a sanitary sewer system. Dumping or free flow of sewage on private property, gutters, streets, sidewalks, or into storm sewers is prohibited.

Bypassing shall be done in such a manner as not to damage private or public property, or create a nuisance or public menace. The CONTRACTOR shall take all necessary precautions including constant monitoring of bypass system to assure that private residences or properties are not subjected to a sewage backup or spill. The CONTRACTOR shall be liable for all cleanup, damages, and resultant fines in the event of a spill.

Place Type II Barricades with flashers around Pumps and above ground bypass piping at a spacing of no more than 50 feet.

If residential building sewers are disconnected from the main, advise the residents to reduce flow and monitor the building sewer. Pump out the building sewer as needed to assure the capacity is not exceeded, not less than once a day.

Provide backup pumping capacity equal to at least the design flow. Backup pump(s) shall be installed on the bypass piping systems and connected to the power source, ready for use if the primary pump(s) fail.

Leakage Testing: Prior to activating sewage pump, the bypassing systems shall be successfully pressure tested with potable water at a pressure equal to at least 125 percent of the maximum working pressure for a period of at least twenty minutes with no leakage. Testing with a gas will not be permitted. Tests shall be conducted in the presence of the City's and County's inspector. Provide at least forty eight (48) hours notice to the inspector.

The CONTRACTOR shall notify the ENGINEER twenty-four (24) hours prior to commencing the sanitary sewer bypass pumping operation. (The log shall include the name of the bypassing supervisor, pump r.p.m., manhole levels, unusual pipe conditions, etc.)

The CONTRACTOR shall continuously monitor the bypass pumping system and manholes upstream of the bypass to verify that it is operating properly and not leaking. The Contractor shall keep a log of pumping operations, and note any unusual conditions and corrective measures therein.

The CONTRACTOR shall maintain the bypass operations until the work is approved by the City.

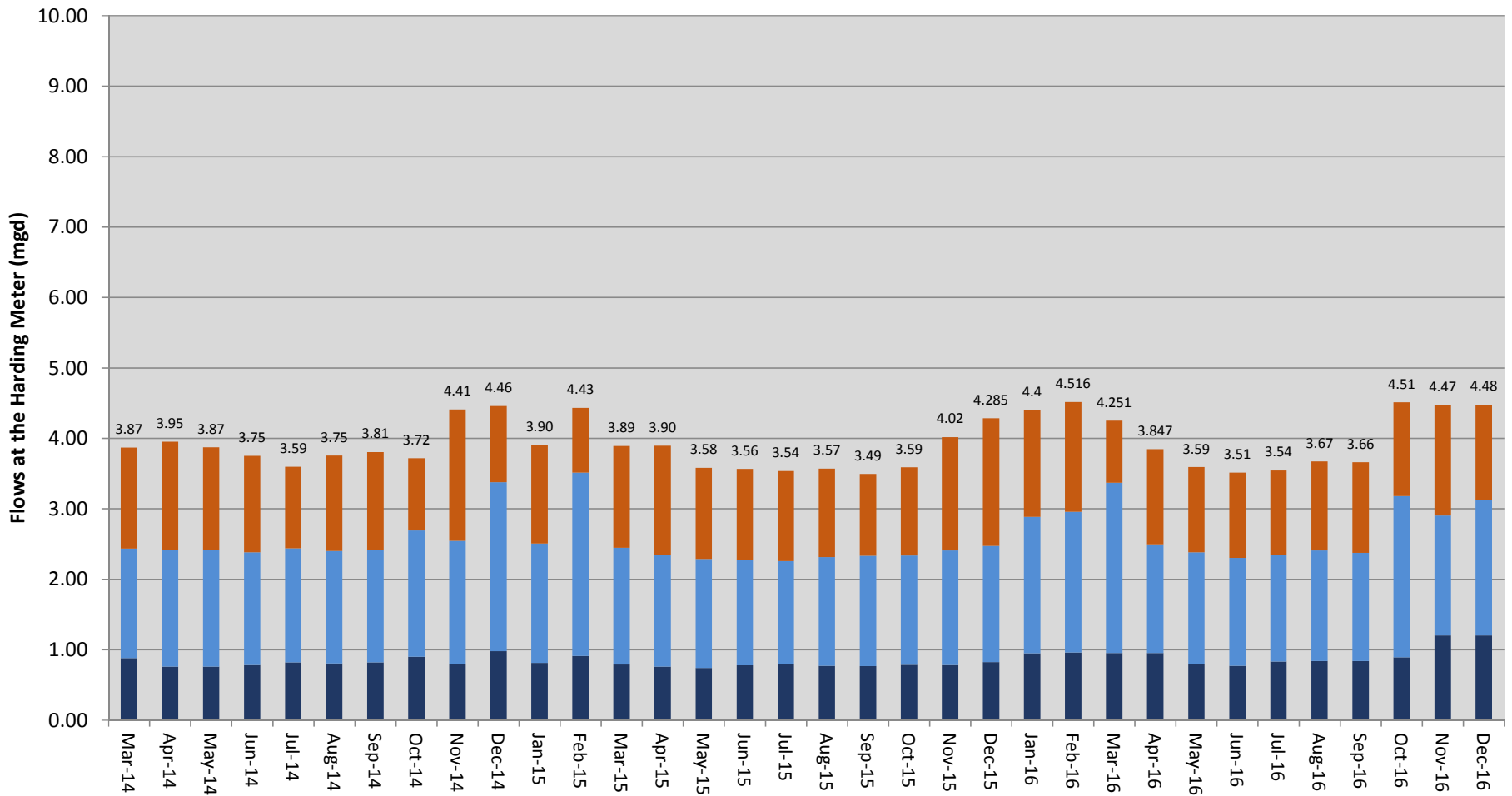
After the permanent sewer work is completed, tested and approved by the City, restore the flow to the permanent sewer, dismantle and remove the bypass system, and repair any damage to streets and landscaping.

Shallow, plated trenches or flow through ramps shall be used for bypass piping at intersections per approval by the City. Repair street and sidewalk, and restore pavement markings damaged constructing trenches in accordance with the Standard Specifications

and details of the City.

- d. Measurement and Payment: The contract lump sum price paid for **Temporary Sewer Bypassing (Bid Item 10)** shall include full compensation for furnishing all labor, materials, tools, equipment, and all incidentals necessary to perform sewage bypassing as described above and as directed by the Engineer and no additional allowance will be made therefore.

# **APPENDIX A**



**LEGEND**

- █ Monthly Peak Hour
- █ Monthly Maximum Day
- █ Monthly Minimum Hour

Notes:

1. Flows shown as extracted from measurements at the Harding Meter from March 2014- Dec 2016.
2. Hydraulic model peak hour based on a 10 year - 24 hour rainfall design flow is estimated at 4.75 mgd.
3. The Harding Meter measurements starting in January 2017 suggest that meter may need calibration.

PRELIMINARY

**Figure 1**  
**Historical Flow Statistics**  
**at Harding Meter**  
 City of Morgan Hill

