

**ADDENDUM NO. 1
FOR
CITY OF GREENFIELD
WASTEWATER TREATMENT PLANT SURFACE AERATOR ADDITION PROJECT**

DATE: March 7, 2016

FROM: Doug Pike, PE, City Engineer
City of Greenfield
599 El Camino Real
Greenfield, CA 93927
Tel: (805) 331-3553

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Procurement Documents dated February 2016, as noted herein. Each bidder shall acknowledge receipt of this Addendum by completing the acknowledgment at the end of this Addendum, and by confirming receipt of this addendum on the contract Bid Form. Failure to do so may subject Bidder to disqualification.

The following changes or clarifications have been made to the Bid Documents:

CHANGES TO PRIOR ADDENDA:

1. Not applicable

CHANGES TO PROCUREMENT REQUIREMENTS:

2. The following information is added to Section A2, Instructions to Bidders:

Bidders shall comply with the Equal Opportunity Requirements set forth in Appendix G of the Contract Services Agreement. Submit with the Bid in the sealed envelope, documentation required by Exhibit G, including Non-segregated Facilities Certification Form, HUD-4230A US Department of Housing and Urban Development Report of Additional Classification and Rate, Past Performance Certification.

The bidders' attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein. There are no established specific numeric goals for this Project; however, provide documentation of good faith effort and outreach to Section 3 contractors/subcontractors as part of the bid, and Certificate Regarding Debarment and Suspension. Use the following tables/forms and submit with the bid.

STATE OF CALIFORNIA
 Department of Housing and Community Development
COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) Program
BIDDER'S SECTION 3 PROPOSED NEW HIRES

Job Category	Total Estimated Positions Needed for the Project	No. of Positions Occupied by Permanent Employees	Number of Positions Not Occupied	No. of Positions to be filled with Section 3 Residents
Officer/Supervisors				
Professionals				
Technical				
Housing Sales/ Rental Management				
Office/Clerical				
Service Workers				
Others				
TRADE:				
Journeyman				
Apprentices				
Trainees				
Others				
TRADE:				
Journeyman				
Apprentices				
Trainees				
Others				

Section 3 Resident:
 Individual residing in a public housing project or within the non-metropolitan county in which the project is located and whose income does not exceed 80% of the higher of the median income, adjusted for family size, for the county of residence or the non-metropolitan area of the state.

 Company

 Project Name

 Project Number

 Person Completing Form

 Date

STATE OF CALIFORNIA
Department of Housing and Community Development
COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) Program

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,
INELIGIBILITY AND VOLUNTARY EXCLUSION LOWER TIER COVERED TRANSACTIONS**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 24 CFR Part 85, Section 85.510, Participants' responsibilities. The regulations were published as Part VII of the May 26, 1988 Federal Register (pages 19160-19211).

(BEFORE COMPLETING THIS CERTIFICATION, READ INSTRUCTIONS BELOW)

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principles are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Grant Number: _____ **Name of Participant:** _____
Address of Participant: _____

Name and Title of Authorized Representative	Signature	Date
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1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to whom this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction", "debarred", "suspended", "ineligible", "lower tier covered transaction", "participant", "person", "primary covered transaction", "principal", "proposal", and "voluntarily excluded", as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Lower Tier Covered Transactions", without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may check the non-procurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

CHANGES TO SPECIFICATIONS:

3. Section 46 51 13, Floating Mechanical Aerators. To Paragraph 2.01.A, replace sentence with "Model 511-SS-AE Aqua-Lator®, or approved equal."
4. Add new Section 01 57 23, Temporary Storm Water Pollution Control, attached hereto.
5. Replace Section 33 31 00, Sanitary Utility Sewerage Piping, with the attached Section 33 31 00, Sanitary Utility Sewerage Piping, specifying SDR 35 PVC pipe.

CHANGES TO DRAWINGS:

6. None.

Please acknowledge receipt of this Addendum No. 1 by signing where indicated below. **Please FAX the signed and dated addendum to Mr. Doug Pike, City Engineer, City of Greenfield, (831) 674-3259, or email a PDF copy of this signed addendum to dpike@mnsengineers.com.**

Signature & Company Name

Date

END OF ADDENDUM

TEMPORARY STORM WATER POLLUTION CONTROL

PART 1 GENERAL

1.01 GENERAL

- A. This section includes requirements for storm water pollution control in accordance with Caltrans Standard Specifications 2010 Sections 13-1 General and 13-3 Storm Water Pollution Prevention Plan.
- B. Delete the 4th paragraph in Section 13-3.01A in its entirety, and replace with "Discharges of storm water from the project must comply with NPDES General Permit for "Storm Water Discharges Associated with Construction and Land Disturbance Activities" (Order No. 2009-0009-DWQ, NPDES No. CAS000002) hereinafter called the "Permit.""
- C. The Risk Level for this Project is 2.

1.02 MEASUREMENT AND PAYMENT

- A. Delete Section 13-3.04, Payment, Caltrans 2010 Section 13-3 Storm Water Pollution Prevention Plan, and replace with the following: "Payment for preparing and implementing Storm Water Pollution Prevention Plan shall be included in the lump sum bid item for the Work including controlling stormwater, monitoring storm water discharges, preparing and submitting the Storm Water Annual Plan, and complying with all Permit conditions."
- B. This item specifically excludes groundwater dewatering which shall be paid for under a separate bid item, with no additional compensation allowed therefor.

1.03 SUPPLEMENTAL DEFINITIONS TO CALTRANS SECTION 13-1 AND 13-3

- A. "Department" shall also mean "Owner" when specifically referring to the City of Morro Bay.
- B. Construction phase: Construction phases are (1) Construction including work activities for building lift station, piping, site improvements, and all other improvements shown on the drawings; (2) Plant Establishment including maintenance on vegetation installed for final stabilization, if applicable; and (3) Suspension where work activities are suspended and areas are inactive.
- C. LRP: Legally Responsible Person
- D. NOT: Notice of Termination
- E. QSD: Qualified SWPPP Developer.
- F. QSP: Qualified SWPPP Practitioner.

- G. PRDs: Permit Registration Documents
- H. SMARTS: Stormwater Multi Application Reporting and Tracking System
<https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp>

1.04 SUBMITTALS

- A. Comply with Caltrans Section 13-3.01B, Submittals, with the following clarifications:
 - 1. SWPPP submittal shall be within 21 calendar days of contract approval.
 - 2. Engineer's initial review period of SWPPP will be within 14 calendar days of receipt.
 - 3. Contractor's re-submittal of SWPPP shall be within 7 calendar days of receipt of Engineer's comments.
 - 4. In addition to the SWPPP copies specified, provide one additional copy of SWPPP to Owner's Representative, for submission to Region 3 Regional Water Quality Control Board.
 - 5. Contractor shall anticipate review comments from the RWQCB upon submission of SWPPP. Update and amend SWPPP within 14 calendar days of receipt of RWQCB comments to SWPPP.
 - 6. All SWPPP revisions shall be included in the lump sum bid price, and no additional compensation shall be allowed therefor.

- B. Prior to starting work, submit the following:
 - 1. The name and qualifications of the QSD, QSP and WPC
 - 2. Complete PRDs including, but not limited to, the NOI, SWPPP, Risk Determination, and CSMP for review by Engineer. Upon Engineer's approval of the submittal, Contractor shall be responsible for uploading the PRDs to SMARTS. Contractor shall notify LRP within 8 hours of successful upload of the PRDs.

- C. BMP Status Report
 - 1. Upon completion of construction, Contractor must submit the NOT and supporting documentation for review by the Engineer/Owner's Representative. Upon Engineer's approval of the submittal, Contractor is responsible for uploading the NOT to SMARTS. Contractor shall notify LRP within 8 hours of successful upload of the NOT.

PART 2 - PRODUCTS

- A. Products used for Water Pollution Control are described in the SWPPP and on the Drawings and in related Specifications.

PART 3 - EXECUTION

3.01 OTHER PERMITS

- A. Contractor shall obtain any and all permits required for this Project. Lack of listing any specific permit by the Department shall not relieve the Contractor of the obligation of obtaining and complying therewith.

3.02 Comply with the requirements of this Section 01 57 23, Temporary Storm Water Pollution Control, and Caltrans Standard Specification 2010 Sections 13-1 and 13-3.

END OF SECTION

SECTION 33 31 00

SANITARY UTILITY SEWORAGE PIPING

PART 1 GENERAL

1.01 DESCRIPTION

Furnish and install all PVC sewer process piping; fittings, pipe penetrations, and appurtenances shown and specified in accordance with the requirements of the Contract documents. The pipelines shall be complete with all necessary fittings, supports, connectors, testing, excavation, backfill, to provide a functional installation. Coordinate alignment and installation of all new and existing site utilities, including electrical, water, sewer, and others as shown on the plans. It shall be the Contractor's responsibility to coordinate alignments of utilities required as part of the Work, at no additional cost to the Owner.

1.02 RELATED SECTIONS

- A. Section 31 23 33 – Trenching and Backfilling

1.03 SUBMITTALS

In accordance with Section 01 33 00, Submittal Procedures, submit the following:

- A. Manufacturer's Literature for pipe, couplings, fittings, and other pipeline components.
- B. Sewage Bypass Plan. Submit as part of the Construction Work Plan required in Section 01 11 00, Summary of work, and for approval by the City and Engineer, a detailed sewage bypassing and "cut-over" plan, detailing how the process ponds are to be staged during construction, sequence of retrofit/work, interconnection of yard piping will be coordinated, phased and constructed to ensure continued operation during construction, no sewage spills and no pond upsets/odor problems. Submit plan within 15 working days following notice to proceed. Payment for sewage bypassing shall be included in corresponding items of new work, and no additional payment shall be provided therefor.

PART 2 PRODUCTS

2.01 PVC SDR 35 GRAVITY PIPE, 4" THROUGH 24" DIAMETER

- A. Unless shown otherwise on the plans, all new gravity sewer mains specified to be PVC, shall be Polyvinyl Chloride plastic pipe (PVC) SDR 35, and shall conform to ASTM Designation D-3034-81. PVC pipe for sewer shall be green.

PART 3 EXECUTION

3.01 TRENCH CONSTRUCTION:

Comply with trench detail on the plans, and Section 31 23 33, and manufacturer's recommendations.

3.02 PIPE LAYING

- A. Install to the grade and invert elevations shown on the plans. Allow on-site visual inspection by Owner's Representative of all piping prior to backfilling, upon request.
- B. Temporary Plugs: When, for any reason, pipe laying is discontinued for an hour or more, the open end of each line shall be closed with a close-fitting stopper.

3.03 TESTING FOR PIPING

- A. Perform the following tests in the presence of the Engineer. In the event of a failed test, correct all deficiencies and retest. The contractor is responsible for all costs associated with retesting following failed tests, and the Owner may deduce such costs from the payments due.
- B. Sanitary Sewer System Piping shall be tested as follows (attached to end of this Section):
 - 1. Air and Mandrel testing per County of San Luis Obispo Standard 7.2.4.C, 7.2.4.D, respectively.
 - 2. Video Inspection of Sewer System. Prior to acceptance by Owner, newly constructed sewer mains shall be video inspected per San Luis Obispo Standard 7.2.4.E. The video inspection shall be made on a new, high quality DVD in color and have a continuous display of date, time, and footage. The video shall be clearly labeled or titled as to specific sewer reach being inspected.
 - a. Video inspection shall be performed prior to acceptance but after the main is completely installed, the trench is backfilled and compacted, and the main has been flushed. Any section of main that is replaced or altered after the video inspection shall be re-inspected by video upon completion.
 - b. Acceptance. In general, sewer mains shall be constructed to a continuous grade, and the DVD shall indicate this by showing an absence of ponded water.

END OF SECTION
(4 pages follow)

- H. Connection to Existing Manholes. Connections to existing manholes shall conform to the requirements of Standard Drawing S-1, and shall be made by coring a hole in the wall of the manhole, inserting the end of the pipe through the opening, flush with the inside wall, and packing the opening around the pipe with a non-shrink grout, thoroughly compacted to form a watertight connection. The grout shall be troweled smooth and flush with the interior surface of the manhole. A manhole adapter or water stop shall be placed on the pipe prior to placement in hole, and the pipe shall be installed as specified by the manufacturer. Channelizing of the flow through the manhole shall conform to the details shown on the Standard Drawings for new manholes. The Contractor shall notify the Department, 24 hours in advance, before any connection is made to existing structures. The Contractor shall schedule the work so that interruption of flow is held to a minimum.
- I. House Service Laterals. House service laterals shall be constructed as shown on the Standard Drawing S-3 and S-3a, and shall conform to the following requirements:
1. If it becomes necessary to locate a house service lateral less than 100-feet from a well, it shall be constructed of a suitable material approved by the Public Works Department and the Public Health Department/ Environmental Health Services. Approved construction materials for sewer lines in critical zones are listed in Section 7.1.3 above.
 2. Whenever house service laterals are to be installed as part of the contract for the construction of the lateral sewer, the use of wye or tee saddles will not be permitted.
 3. That portion of any house service lateral to be placed under an existing curb and gutter and/or sidewalk shall be done by tunneling. Cutting of the existing curb and gutter and/or sidewalk will not be permitted.
 4. All house service laterals shall be considered as part of the lateral sewers for purposes of the hydrostatic test as set forth in Testing, below.
 5. The location of house service laterals shall be permanently indicated by embedding the letter "S" in the curb directly above the line. In new subdivisions when the house service laterals are installed, before the curb is constructed, it shall be the sewer contractor's responsibility to place the "S" in the curb after it is poured. When house service laterals are constructed in existing easements or streets where curbing does not exist, a 2-inch by 2-inch by 36-inch maximum (2"x2"x36") construction grade redwood stake shall be driven in the ground to within two inches of the surface, directly above the service line at the property line and an "S" stamped in the top. Every house service lateral shall be so marked before final acceptance will be given of any job.

7.2.4 Testing

Prior to final approval, all sewer lines shall be cleaned and tested for leakage by standard hydrostatic or low pressure air test, for deflection by mandrel test, and for standing water/other debris by TV inspection. All cleaning and testing shall take place after all utilities are installed, and up to, but not including the final paving is completed. Any damage to the system during final paving and cleanup shall be corrected prior to final approval.

- A. Cleaning. Prior to acceptance of any sewer line by the Department, the sewer line shall be cleaned with a Wayne-type sewer cleaning ball under hydrostatic pressure. Any stoppage, dirt or foreign matter shall be removed from the lines. All materials and debris removed shall be collected and vacuumed out of the system at a manhole selected by the Department, and no debris shall be washed or otherwise deposited into the system.

- B. Hydrostatic Test Procedure. A section of sewer line shall be prepared for testing by plugging the upper side of the downstream manhole and all openings in the upstream manhole except the downstream opening. Where grades are slight, two or more sections between manholes may be tested at once. Where grades are steep, and excessive test heads would result by testing from one manhole to another, test tees the full size of the main shall be installed at intermediate points so the maximum head on any section under test will not exceed 12-feet. The following sequence shall be used:
1. The section of sewer line prepared as above shall be tested by filling with water to an elevation 5-feet above the top of pipe at the upstream end of the test section, or 5-feet above the existing ground water elevation, whichever is greater. The water should be introduced into the test section four hours in advance of the official test period to allow the pipe and joint material to become saturated. The pipe shall then be refilled to the original water level.
 2. At the beginning of the test, the elevation of the water in the upper manhole shall be carefully measured from a point on the manhole rim. After a period of four hours, or less with the approval of the Department, the water elevation shall be measured from the same point on the manhole rim and the loss of water during the test period calculated. If this calculation is difficult, enough water shall be measured into the upper manhole to restore the water to the level existing at the beginning of the test, and the amount added taken as the total leakage.
 3. Should an initial test show excess leakage in a section of line, it is permissible to draw the water off and test the manholes that contained water. This test shall be made by plugging all the openings in the manholes and filling with water to the same elevation as existed during the test. The leakage from the manhole may be deducted from the total leakage of the test section in arriving at the test leakage. After the testing is complete, the manhole shall be waterproofed by grouting. Other approved waterproofing methods may be used if satisfactory to the Department.
 4. The allowable leakage in the test section shall not exceed 500 gallons per mile, per 24 hours, per inch diameter of pipe tested at the 5-foot test head.
 5. If it is necessary or desirable to increase the test head above 5-feet, the allowable leakage will be increased at the rate of 80 gallons for each foot of increase in head.
 6. Test sections showing leakage in excess of that allowed shall be repaired or reconstructed as necessary to reduce the leakage to that specified above, and the line retested, after a minimum period of 24 hours during which no additional water shall be introduced into the line.
- C. Air Test Procedure. Each section of sanitary sewer between two successive manholes shall be tested by plugging all pipe outlets with suitable test plugs. Air shall be slowly added until the internal pressure is raised to 4.0 pounds per square inch gauge (psig). The compressor used to add air to the pipe shall have a blowoff valve set at 5 psig to assure that at no time the internal pressure exceeds 5 psig. The internal pressure of 4 psig shall be maintained for at least two minutes to allow the air temperature to stabilize, after which the air supply shall be disconnected and the pressure allowed to decrease to 3.5 psig. The time in minutes that is required for the internal pressure to drop from 3.5 psig to 2.5 psig shall be measured and the results compared with the values tabulated below.

Table 7-3: Air Test Procedure

Pipe Diameter (inches)	Test Time (minutes)	Minimum Distance Between Manholes (feet)
8	4	340
10	5	260
12	6	230
15	7	170
18	9	150
21	10	120
24	11	110
27	13	100
30	14	90
33	16	80
36	17	70
39	18	60
42	19	50

The above tabulated values shall be used for the respective diameter pipes except where the distance between successive manholes is less than the above tabulated values, or the pipe diameter is less than 8-inches, in which case the following formula will be used to determine the test time:

$$(1) T = 0.000183 d^2 L$$

T = test time (minutes)

d = inside diameter of pipe (inches)

L = distance between successive manholes (feet)

If the pressure drop from 3.5 psig to 2.5 psig occurs in less time than the above tabulated or calculated values, the pipe shall be repaired and, if necessary, replaced and re-laid at the Contractor's expense until the joints and pipe shall hold satisfactorily under this test. The Contractor shall furnish all labor, air test equipment, and all other materials for making the required air test at his or her own expense. After the sewer lines have been properly backfilled to a depth where additional backfilling will not disturb the position of the pipe, all or any sections that the Department may select may be tested. In no case shall the required minimum backfill be less than 4-feet above the top of the pipe before subjecting the line to the test. The Contractor shall supply all equipment, material and perform all tests as required prior to final approval.

- D. Deflection Test. Following the placement and densification of backfill, and prior to the placing of permanent pavement, all pipe shall be cleaned and then mandrel measured for obstructions (deflections, joint offsets, and lateral pipe intrusions). A rigid mandrel, with a circular cross-section having a diameter of at least 95% of the specified average inside diameter, shall be pulled through the pipe by hand. The minimum length of the circular portion of the mandrel shall be equal to the nominal diameter of the pipe. Unless otherwise permitted by the Department, any over-deflected pipe shall be uncovered and, if not damaged, reinstalled. Damaged pipe lengths shall not be reinstalled, but shall be removed from the work site. Any pipe subjected to any method or process other than removal, which attempts – even successfully – to reduce or cure any deflection, shall be uncovered, removed from the work site, and replaced with new pipe.

The mandrel used shall be:

- effective length not less than its nominal diameter
 - fabricated of steel
 - fitted with pulling rings at each end
 - furnished in a suitable carrying case labeled with the same data as stamped or engraved on the mandrel
 - rigid, nonadjustable, with an odd number of legs (9 legs minimum)
 - stamped or engraved, on some segment other than a runner, indicating the pipe material specification, nominal size, and mandrel OD
- E. TV Inspection. For wastewater collection systems operated by the County, a TV inspection and report shall be required prior to acceptance.
- F. Force Mains. Each section of pipe to be tested shall be slowly filled with water and all air expelled from the pipe. After the pipe has been filled, it shall be allowed to set for a period of not less than 24 hours. The pipe shall then be refilled to the original water level and subjected to a pressure of not less than 150 pounds per square inch, or the service pressure plus 50 pounds, whichever is greater, for a period of two hours. All exposed joints, bends, angles, and fittings shall be closely examined during the test. Any part of the line which proves to be defective shall be replaced and the line retested. The maximum allowable leakage shall not exceed 100 gallons per mile, per 24 hours, per inch of nominal diameter.

7.2.5 Replacement of Road Surfaces

- A. Timing of Pavement Replacement. Paving replacement shall not proceed until the full requirements of Installation and Testing, above, have been met to the satisfaction of the Department, but in no less than ten (10) days after backfilling has been completed.
- B. Pavement Replacement Requirements. The replacement of all pavement and shoulder surfaces shall be in conformance with Section 3 of these Public Improvement Standards, as to materials and methods of construction.