



City of Anaheim
DEPARTMENT OF PUBLIC WORKS

May-23-19

NOTICE TO ALL BIDDERS

PROJECT: Linda Vista Complex Pump Station Improvement Phase 2

ACCOUNT No. 502-521-3724-7865-1800332-01

ADDENDUM NO. 4

This is a modification to the bid package for the project identified above. The attached are additions, revisions and clarifications to the "Contract Documents" and shall become a part of the "Contract Documents". All bidders are required to incorporate all necessary changes, additions or deductions into their proposals. This Addendum includes the following:

Technical Specifications

Table of Contents – Replace table of contents in its entirety with new section attached to the end of this addendum.

Section 01015 – "General Conduct of the Work"; Page 01015-19, paragraph 3, "Pressure Reducing Station 34 Modifications", add the following:

"The work also includes the removal and replacement of the existing magnetic flow meter with a new flow meter. The new magnetic flow meter shall be an insertion type. Contractor shall be responsible for providing a 10-inch FBE lined and coated steel spool for the flowmeter, removing and reassembling existing pipe, modifying existing pipe supports, and connecting power and signal wires as necessary for a complete and operable installation."

An as-built drawing for PR Station 34 is attached to the end of this addendum.

Section 01015 – "General Conduct of the Work"; Page 01015-25, paragraph 1.17, "Work Area Limits, Site Access, Material Storage", Item C "Material Storage Area".

Add the following:

"Contractor is responsible for restoring the impacted yard site to original condition in grade and vegetation. Restoration shall include re-establishing existing grades and hydroseeding impacted areas. Contractor shall assume 1 acre of hydroseeding will be required conforming to the Contract Specifications."

Section 01020 – Measurement and Payment; Page 01020-6, Item #27 PR 34 Modifications.

Delete Item B in its entirety. Replace with the following:

B. Payment for labor, materials, and equipment necessary to remove existing solenoid valves from the large and small pressure reducing valves pilot systems,

eliminating remote control operation of the valves. The work is to be performed by Cla-Val as a subcontractor to the general contractor, no exceptions.

- C. The work also includes removal of the existing 10-inch ABB magnetic flow meter and replacement with a new insertion type magnetic flowmeter. The Contractor is required to furnish the flowmeter and fusion bonded epoxy lined and coated flanged steel tube, of a length to match the existing flowmeter for the installation. The work includes removal and re-installation of existing pipe and supports, electrical connections, and any other necessary work for a complete and operable installation.

Section 01025 – Measurement and Payment; Page 01025-7

Add Item #39 Chain Link Fence

- A. Shall be measured as the amount of the unit of measure.
- B. Payment for labor, materials and equipment necessary related to installing 8-foot tall chain link fence with 3-strand barbed wire and screening panels, will be made for each unit named in the Bid Proposal under Item #38.

Add Item #40 Double Leaf Gate

- A. Shall be measured as the amount of the unit of measure.
- B. Payment for labor, materials and equipment necessary related to installing 8-foot tall by 20 foot wide double leaf gate with 3-strand barbed wire and screening panels, will be made for each unit named in the Bid Proposal under Item #39.

Section 01116 – Construction Sequence and Potholing; Page 01116-9; Phase 11: 555 Booster Station Pump Replacement (Pumps 6, 7, and 8) (Reference Drawings SI-17, M-1, and E-20)

Add the following to Step 1: “Chlorinate new installation and obtain a passing batci-test prior to placing the pump into operations.”

Section 01116 – Construction Sequence and Potholing; Page 01116-9; Phase 12: 400 Booster Station Pump Replacement (Pumps 2, 3, and 4) (Reference Drawings SI-17, M-1, and E-19).

Add the following to Step 1: “Chlorinate new installation and obtain a passing bacti-test prior to placing the pump into operation.

Section 01116 – Construction Sequence and Potholing; Page 01116-6 Phase 6: Surge Tank Installation (Reference Drawing M-8).

- 1. Add the following as new Step 12: Modify pilot system of existing 555 Zone Booster Station pressure relief valve to surge anticipator service. Work shall be performed by Cla-Val as a subcontractor to the general contractor. No exceptions.

2. Revise existing step numbers 12, 13, and 14 to Steps 13, 14, and 15.
3. Add the following as new Step 16: Reconfigure pilot system modified under Step 12 back to pressure relief service. Work shall be performed by Cla-Val as a subcontractor to the general contractor. No exceptions.

Section 01116 – Construction Sequence and Potholing; Page 01116-12; Phase 20: Miscellaneous Work (Reference Drawings SI-3, SI-13, and SI-14)

Add the following to Step 3: “Install new insertion type magnetic flow meter.”

Add new Step 8 as follows: Remove existing chain link fence in north property area. Install new chain link fence and gate.

Section 01800 – Testing, Training, and Facility Start-Up; Page 01800-2; Add the following:

- 1.3A General Start-Up Procedures – The Construction Manager will coordinate with Water Field / Operation staff to initiate the startup and testing program in accordance with the following procedures:
 - A. Provide an approved comprehensive startup and testing plan including the control system pre-programmed information for instrument calibration ranges, control and alarm set points provided by the design engineers.
 - B. Deliver approved training materials and a tentative schedule for the training programs provided by the Contractor.
 - C. Schedule a walkthrough / inspection of the facility with representatives of the Water Field / Operation staff. The staff will then provide a list of items that need to be added, corrected or modified before the Water Field / Operation division will proceed to the testing phase with the Contractor.
 - D. Schedule the commencement of the Contractor’s startup and testing program from the local control panel. The Contractor shall operate and demonstrate that the control systems are correctly programmed and the equipment is functioning properly. If any component of the system fails to perform, the testing shall be stopped, the defects corrected and the testing started again.
 - E. The Contractor shall then complete the programming of the SCADA control system including setting control and alarm set points. The Operation Staff will commence testing the operation of the facilities through the SCADA system. If any component of the system fails to perform, the testing shall be stopped, the defects corrected and the testing started again.

The Field / Operation staff will operate the system for a period to demonstrate the facilities are functioning properly without failures. When the staff is satisfied with the performance of the facilities, the Water Field / Operation Division will accept and take over the

responsibility for operational control and provide a final list of items required before the project will be accepted ad complete.

Add Section 02821- Chain Link Fences and Gates, attached to the end of this addendum.

Add Section 02831 – Tubular Steel Picket Fencing and Gates, attached to the end of this addendum.

Add Section 02910 – Hydroseeding of On-Site Construction Yard, attached to the end of this addendum.

Section 13311 – PLC Hardware and Software; Page 13311-9; Analog Inputs

Add inlet chlorine residual to the analog input list

Add Section 13423 – Magnetic Flow Meter attached to the end of this addendum

Section 16920 – Motor Control Centers; Add Paragraph 1.1 (C) as follows:

1.1 (C) – MCC 400 and MCC 555 shown on Contract Drawings E-12 and E-13 respectively, may be furnished as a NEMA 1 switchboard complying with Section 16460 of the Contract Specifications, and shall contain all components as specified and shown on the Contract Drawings.

Section 16926 – Variable Frequency Drivers (VFD's); Delete Paragraphs 1.1 (D) and 2.9 (B). A 3 contactor solid state starter by-pass system is not required.

Plans

Drawing G-2 – Site Map and Sheet Index; Add 8-foot chain link fence to site map.

Drawing G-4 – General Notes, Piping General Notes, Bench mark and Basis of Bearings

Add the following: 48. The Contractor shall restrict construction equipment from traveling over the existing Zone 555 36-inch discharge pipe or Zone 400 30-inch discharge pipe.

Drawing SI-1 – Site Improvement Plan

1. Add the following:
 - a. Existing chain link fence and gate north of the existing control building.

- b. New 8-foot chain link fence and gate north of the existing control building.
 - c. Construction notes 95 and 96.
 - d. Disposition Notes 51 and 52.
 - e. Drawing SI-44 to the sheet index.
2. Revise the location of the pole mounted camera (Disposition Note 40)

Drawing SI-3 – Site Grading and Paving Plan; Upper Yard

1. Add the following:
 - a. Existing chain link fence north of existing control building.
 - b. New 8-foot chain link fence and gate, north of the existing control building.
 - c. Construction Notes 90, 95, and 96.
2. Revise location of the pole mounted camera (Construction Note 31)
3. Revise Construction Note 90 in Driveway Profile A to Construction Note 9.

Drawing SI-4 – Site Grading and Paving Plan; Lower Yard

1. Revise length of longitudinal gutter replacement north of the pump station to full length.
2. Add spot elevations for paved area north of the booster station.
3. Add notes to re-landscape east and west bio-swales.
4. Add new grading area south of the west bio-swale.

Drawing SI-5 – Site Paving Sections

1. Revise Section B to show new chain link fence.
2. Revise Section D to show new chain link fence, and camera location.

Drawing SI-6 – Site Paving Sections II

1. Revise Section H to show duct bank crossing over the 36 steel water line.
2. Revise Section I showing new chain link fence, and removed camera pole.

Drawing SI-8 – Erosion Control Plan (1 of 3)

1. Move site entrance BMP inside the north property fence line.
2. Add existing chain link fence, weather station, and drain pipe to drawing.

3. Add requirement to restore impacted area's to original condition, and hydroseed 1 acre in the southern half of the north property.

Drawing SI-13 – Perimeter Fencing Modifications and Details

1. Add new chain link fence to the perimeter fencing key map.
2. Add Construction Notes 95 and 96 to the sheet.

Drawings SI-15 – Site Demolition Plan Upper Yard Area

1. Add existing fence in north property area to be removed at completion of construction.
2. Add Demolition Note 27

Drawing M-1 – 400 Zone and 555 Zone Booster Station Improvement Plan

1. Add Construction Note 97.
2. Add Sheet Notes 10, 11, 12, 13, and 14

Drawing M-2 – 555 Zone Pump Station Upgrades

1. Add Sheet Notes 10, 11, 12, 13, and 14.

Drawing M-3 – 400 Zone (High Flow) Pump Section

1. Add Sheet Notes 10, 11, 12, 13, and 14

Drawing M-4 – 400 Zone (Low Flow) Pump Section

1. Revise Construction Note 44.
2. Add Construction Note 50.
3. Revise pipe spool call out on Section C from Construction Note 31 to Construction Note 44.
4. Revise vault cover call out on Section C from Construction Note 44 to Construction Note 50.

Drawing M-8 – 555 Zone and 400 Zone Surge Tanks Improvement Plan, Tank Footing Plan, and Section Details

1. Add Sheet Note 11.
2. Add note to plan at existing 555 Zone surge tank referencing Sheet Note 11.
3. Add not to plan referencing sheet SI-16 for continuation of the 1" air line.

Drawing M-9 - 555 Zone and 400 Zone Surge Tanks, Sections A, B, C, and Details

1. Add Sheet Notes 10 and 11.

Drawing E-8 – Electrical Site Plan – New

Add the following General Note 3: Electrical conduits or duct banks crossing the existing 36-inch or 30-inch booster station discharge pipes shall be installed with an insulating blanket between the duct and watermain, in accordance with City Standard W-821.

Relocate pole mounted camera and conduit shown next to existing control building to new location shown on revised drawing SI-3.

Drawing E-17 – Area Plan 1

Add the following General Note 3: Contractor shall coordinate fiber optic conduit and cable installation with the City. Fiber optic conduit F101 shall be extended through the SCADA Operations Building by the Contractor to the new fiber optic patch panel to be installed in the SCADA rack enclosure inside the building.

Drawing E-14 – Electrical Room – Power Plan

Delete the two conduits shown from MCC555 incoming section to the main control panel.

Drawing E-16 – Electrical – Roof Plan

Delete conduit callout P512 located on AC-2 unit.

Drawing E-20 – Zone 555 Power Plan

Revise designation for Conduit P506A to P501A
Revise designation for Conduit P507A to P502A
Revise designation for Conduit P508A to P503A
Revise designation for Conduit P509A to P504A
Revise designation for Conduit P510A to P505A
Revise designation for Conduit P511A to P506A
Revise designation for Conduit P506 to P501
Revise designation for Conduit P507 to P502
Revise designation for Conduit P508 to P503
Revise designation for Conduit P509 to P504
Revise designation for Conduit P510 to P505
Revise designation for Conduit P511 to P506

Drawing E-22 – Conduit Schedule

Conduit U101 – Revise size from 5" to 2x4"

Conduit U102 – Revise size from 5” to 2x4”
Conduit U103 – Revise size from 5” to 2x4”
Conduit U104 – Revise size from 5” to 2x4”
Conduit P004 – Revise size from 10x4” to 12x4”
Conduit P005 – Revise size from 10x4” to 12x4”
Conduit CG400 – Revise cable size from #15 to #14
Add Conduit CG106 – 1” Conduit with 14-#14 wires
Add Conduit C409 – 2” Conduit with 20-#14 wires
Conduit A108 – Revise cable quantity from 8 to 9

Drawing E-25 – Generator Building – Modification Plan
Revise designation for Conduit CG102 to CG400
Revise designation for Conduit CG103 to CG500

Drawing I-15 – PLC Analog Input Module, Rack B, Slot 9
Add analog input for inlet chlorine residual analyzer.

Drawing I-25 – Sump Pumps, PRV Station 34, and 4-Million Gallon Reservoir
Process and Instrumentation Diagram
Add new magnetic flow meter to be installed at PR Station 34, replacing the
existing.

Drawing I-26 – Generator and Chlorine Station Process and Instrumentation
Diagram
Add inlet chlorine residual analyzer to the diagram.

Plan Holder Questions:

Question # 5 regarding Sheet 70 of "PLANS":

"On page 70 of the drawings the conduit between incoming section MCC-SOO and MCC-400 to Main Control Panel are not labeled. What are the conduit and wire details?"

Answer: Delete conduit

Question # 6 regarding Sheet 81 of "PLANS":

"On page 81 of the drawings shows CG106, CG103, and CG102 but it does not appear on the conduit schedule. What are the conduit and wire details?"

Answer: Revise Conduit designation for conduits CG102 and CG103 on Dwg. E-25 (sheet 81) to CG400 and CG500 respectively. Conduit CG106 shall be 1" Conduit with 14#14 wires between MCC-G8 and Existing Emer. Gen Control Panel.

Question # 7 regarding Sheet 76 of "PLANS":

"On page 76 of the drawings shows conduits: CS11, PS09A, PS08A, P507A, and CS07 but they are not on the conduit schedule_ What are the conduit and wire details?"

Answer: On Dwg. E-20 (Sheet 76) re-designate conduits as follows:

<u>Exist.</u> <u>Designation</u>	<u>Revised</u> <u>Designation</u>	<u>Exist.</u> <u>Designation</u>	<u>Revised</u> <u>Designation</u>
P506A	P501A	C506	C501
P507A	P502A	C507	C502
P508A	P503A	C508	C503
P509A	P504A	C509	C504
P510A	P505A	C510	C505
P511A	P506A	C511	C506A

Question # 8 regarding Sheet 73 of "PLANS":

"On page 73 of the drawings conduit L-403 is listed twice connected to different conduits. One is connected to PPB-400-1 and the other is connected to gate operator. Which one is correct?"

Answer: Conduit L403 continues to Ltg. Panel LP-400 via PPB-400-1 .

Question # 9 regarding Sheet 72 of "PLANS":

"On page 72 of the drawings conduit P512 is not pointing to any conduits and it is connected to AC-2. It does not match the conduit schedule to and from. Please advise. "

Answer: Delete Callout P512 on Dwg. 16 (Sheet 72)

Question # 10 regarding Sheet 70 of "PLANS":

"Conduit C409 appears on page 70 of the drawings, but does not appear on the conduit schedule. What are the details for the conduit and wire?"

Answer: Conduit C409 shall be 2" Conduit with 20#14 between MCC-400 and Main Control Panel

Question # 11 regarding Conduit Schedule":

"On the conduit schedule CG400 shows #15 wire. Is that correct?"

Answer: Revise Cable size to #14.

Attachments:

1. PR Station 34 As-Built Drawings
2. Bid Sheet
3. Table of Contents
4. Specification Section 02821 – Chain Link Fences and Gates
5. Specification Section 02831 – Tubular Steel Picket Gate
6. Specification Section 13423 – Magnetic Flow Meters
7. Revised Contract Drawing Sheets: G-2, SI-1, SI-3, SI-4, SI-5, SI-6, SI-8, SI-13, SI-15, M-1, M-2, M-3, M-4, M-8, M-9, I-15, I-25, I-26

Bid opening date remains the same, all bids must be received and stamped by the City Clerk's office on the 2nd floor of City Hall located at 200 S. Anaheim Blvd. Anaheim, CA 92805, prior to Thursday before 2:00 p.m. on May 30th, 2019.

All other aspects of the documents pertaining to this project remain in effect and applicable. Payment for complying with those provisions shall be deemed to be included in the price bid for the various items of work. No additional compensation will be allowed therefore.

Sincerely,



Joel C. Jordan
Contract Administration

C: Robert Luciano
Lisa O'Connell

William J. Grigsby
Raul Garcia File

The bidder shall individually identify and acknowledge receipt of all addenda by signing and enclosing each addendum form in his/her bid package submittal. Failure to do so may result in a disqualification of his/her bid.

Signature

Date