

REPORT TO CITY COUNCIL

Approved by:

A handwritten signature in blue ink, appearing to read "Keith Helmuth".

Keith Helmuth, Department Director

A handwritten signature in blue ink, appearing to read "Arnaldo Rodriguez".

Arnaldo Rodriguez, City Manager

Council Meeting of: November 20, 2019

Agenda Number: B-9

SUBJECT:

Consideration of a Minute Order Accepting the City of Madera Wastewater Treatment Plant Rehabilitation Project, City Project No. WWTP 18-02 and Authorizing Recording of the Notice of Completion and Authorizing the Release of Retention

RECOMMENDATION:

Staff recommends that the City Council (Council) approve Minute Order approving:

1. Acceptance of the City of Madera Wastewater Treatment Plant Rehabilitation Project, City Project No. WWTP 18-02.
2. The recording of the Notice of Completion
3. The release of retention 35 days after recording of the Notice of Completion

SUMMARY:

The Council, at its April 18, 2019 meeting, awarded a contract to Cushman Contracting Corporation for Madera Wastewater Treatment Plant Rehabilitation Project, City Project No. WWTP 18-02 (Project). The Contractor has substantially completed the project in accordance with the plans and specifications and as modified by approved change orders. Staff recommends that the Council accept the project.

DISCUSSION:

A final project inspection was conducted by the Engineering Department. Affected divisions within the Public Works Department also participated in the final review of the project. All parties agree the project can be recommended for acceptance by the City Council and a "Notice of Completion" recorded.

The work contracted was derived from a list of major maintenance items planned for completion over the next few years to increase process reliability, decrease risk of operations and assure continuous operation of the Wastewater Treatment Plant.

The six major maintenance items contracted for in the 2018 WWTP Rehabilitation Project included:

1. Anaerobic Digester Numbers 1, 2, and 3*
2. Digesters/Centrifuge Complex Underground Drain
3. Primary Clarifiers Numbers 1, 2, and 3
4. Primary clarifiers' effluent/oxidation ditches' influent pumps and motors
5. Plant Water Supply Wells and Hydro Pneumatic Tank System
6. Non-potable Water/Recycled Water Pumps and Hydro Pneumatic Tank System

** Proposed recoating of the Digesters under this project, was excluded from the contract due to budget constraints. The recoating work will be packaged as a new project for next fiscal year.*

Stantec Consulting Service prepared bid specifications and administered the construction contract as a result of a Request for Qualifications issued in late fall of 2016 to identify priority projects.

The Project was not intended to expand the plant's capacity or improve efficiency. The items and equipment included within the current program were selected by Staff in consultation with the Stantec to maintain critical redundancy and reduce risk of a catastrophic failure.

The original contract for the Project was in the amount of \$3,312,000. Multiple Contract Change Order(s) were processed for work added/deleted to the project. Major contract adjustments are noted below.

| Table 1: Project Index item with associated Change Order additions or credits | | | |
|--|---------------------------------------|--|---|
| <i>Item</i> | <i>Bid Proposal & Contingency</i> | <i>Notes</i> | <i>Approved Contract and Change Orders Totals</i> |
| 1)Digester # 1 Mixing system | | CO#11)Cleaning,CO#12)Excavation, CO#13)Excavation,CO#18)Electrical, CO#24)Blocked Drain Line | \$98,615.73 |
| 2)Digester # 1 Heat Exchange Rehab | | CO#15)Heat Exchanger | \$66,352.87 |
| 3)Digester 1-3 Valve Replacement | | CO#8Potholing,CO#23)Asphalt Repair | \$40,015.93 |
| 4)Primary Scum and Sludge Pumps Replacements | | | - |
| 5)Primary Clarifier # 1-3 New Sludge Collection Equipment | | CO#6)Slide Gates No.3,CO#16 Slide gates No.1-2,CO#27Stop Gates for Channel,CO#30.A) Coat Shafts No.2 | \$149,033.08 |

| | | | |
|---|-----------------------|---|-----------------------|
| 6)Concrete Repair and Coating | | CO#5)Shoring(adder \$45,794.68), CO#7)Existing PEPS Repairs(credit \$118,900.00),CO#9)Bypass Pumping(adder \$56,032.27) | (\$17,073.05) |
| 7)Existing Well #2 Modifications | | | - |
| 8)Existing Well #3 with New Wellhead | | CO#21)Mechanical,CO#29)Gravel in Lieu of Hydroseeding | \$25,004.03 |
| 9)New Surge Tank | | CO#20)Ball Valves(adder \$347.67), CO#30) SCADA(credit \$25,000) | (\$24,652.33) |
| 10) Existing Centrate Drain Pipeline (To be Lined) | | CO#10)Valves,CO#4)Clean Outs, CO#3)Manhole, CO#2)West Grit Line, CO#1)East Grit Line | \$161,186.36 |
| 11) Existing Well #1 and Hydrotank | | | \$1,497.77 |
| Original Contract Total | \$ 3,312,000.00 | | \$3,312,000.00 |
| Original Contingency | \$300,000.00 | | |
| *12) Emergency Contract Change Order for New Primary Effluent Pump Station (PEPS) | \$1,363,601.00 | | \$1,363,601.00 |
| **Increase to Contract Contingency | \$300.000.00 | | |
| Increase to Contract for New PEPS- Change Orders | | CO#28)Walk,CO#26)Water Lines for PEPS, CO#25)Demo Duct Bank, CO#22)New Concrete Mix,CO#17)Off Haul Demo | \$64,159.39 |
| Total: | \$5,275,601.00 | | \$5,239,740.78 |

*Approved by Council February 20, 2019

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The Emergency Change Order 12) and associated contingencies were approved by Council once it became evident the intended repairs to the existing PEPS would not address unforeseen structural damage identified when the PEPS was drained.

The total amount of the Change Order(s), in table above under the Notes heading, resulted in a net increase to the contract of \$ 564,139, increasing the cost of the project to \$5,239,741. This is within the approved project budget and contingency's totals of \$5,275,601.

FINANCIAL IMPACT:

Funding for the project was programmed in FY 2018/19 Capital Project and augmented with additional funds from the Unappropriated Fund Balance of the Sewer fund, as approved by the

Council on February 20, 2019. Construction of this project had no financial impact on the City's General Fund.

CONSISTENCY WITH THE VISION MADERA 2025 PLAN:

This proposed action is consistent with the Madera Vision Plan, specifically:

Strategy 115: "Economic Resource Provision: Ensure sufficient economic resources to provide adequate City services and prepare for future growth."

ALTERNATIVES:

Council may delay acceptance or not accept project. A decision to delay or not accept the project would result in additional claims by the contractor unless such a decision is based on documentable concerns that might justify such a delay. A prolonged project completion time would also translate into additional project administration expenses.

ATTACHMENTS:

1. Notice of Completion
2. Location Map
3. Project Pictures

ATTACHMENT 1
NOTICE OF COMPLETION

RECORDING REQUESTED BY:
CITY OF MADERA

AND WHEN RECORDED MAIL TO:
CITY OF MADERA – CITY CLERK
205 W. 4TH STREET
MADERA, CA 93637

SPACE ABOVE THIS LINE FOR RECORDER'S USE
FEE WAIVED PER SECTION 27383 & 27388.1(a)(2)(D) OF THE GOVERNMENT CODE - NO DOCUMENT TAX DUE \$ -0-

NOTICE OF COMPLETION Corporation

NOTICE IS HEREBY GIVEN THAT:

1. The undersigned is owner of the interest or estate stated below in the property hereinafter described,
2. The full name of the undersigned is City of Madera
3. The full address of the undersigned is 205 West 4th Street; Madera, CA 93637
4. The nature of the title of the undersigned is: In fee Public Improvements
(If other than fee, strike "In fee" and insert, for example, "purchaser under contract of purchase," or "lessee")
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

| NAMES | ADDRESSES |
|-------|-----------|
|-------|-----------|

N/A

6. A work of improvement on the property hereinafter described was completed on October 15, 2019
7. The name of the original contractor, if any, for such work of improvement was Cushman Contracting Corporation
(If no contractor for work of improvements as a whole, insert "none".)
8. The full name(s) and address (es) of the transferor(s) of the undersigned is (are):

| NAMES | ADDRESSES |
|-------|-----------|
|-------|-----------|

N/A

(Complete where undersigned is successor to owner who caused improvement to be constructed)

9. The property on which said work of improvement was completed is in the City of Madera
County of Madera, State of California, and is described as follows:

**City of Madera Wastewater Treatment Plant Rehabilitation Project,
City Project No. WWTP 18-02**

10. The street address of said property is Madera 13048 Rd 21 ½, Madera CA, 93637
(If no street address has been officially assigned, insert "none".)

(Signature of Owner named In Paragraph 2)

Dated: _____

Keith Brent Helmuth, P.E
City Engineer

**City of Madera Wastewater Treatment Plant Rehabilitation Project,
City Project No. WWTP 18-02**

STATE OF CALIFORNIA
County of Madera

Keith Brent Helmuth, being duly sworn says: That he is the City Engineer of the City of Madera,
The corporation that executed the foregoing notice as owner of the aforesaid interest or estate in the property
therein described; that he makes this verification on behalf of said corporation;
That he has read said notice and knows the contents thereof, and that the facts therein stated are true:

Signature of Officer: _____

The notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Madera

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 2019, by Keith Brent Helmuth,
proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

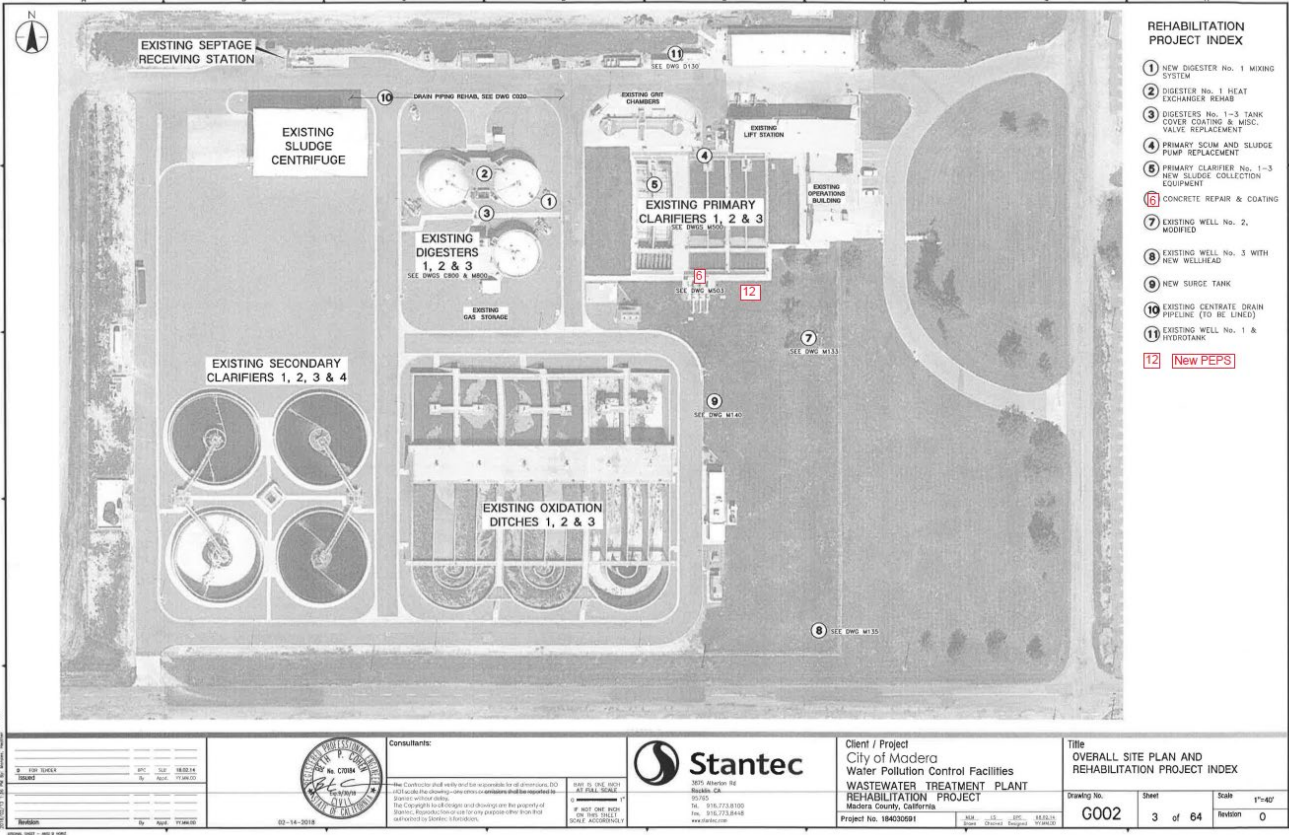
(Seal)
Alicia Gonzales, City Clerk

ATTACHMENT 2

LOCATION MAP

LOCATION

Rehabilitation Project Index



- REHABILITATION PROJECT INDEX**
- 1 NEW DIGESTER No. 1 MIXING SYSTEM
 - 2 DIGESTER No. 1 HEAT EXCHANGER REHAB
 - 3 DIGESTERS No. 1-3 TANK COVER COATING & MISC. VALVE REPLACEMENT
 - 4 PRIMARY SLUM AND SLUDGE PUMP REPLACEMENT
 - 5 PRIMARY CLARIFIER No. 1-3 NEW SLUDGE COLLECTION EQUIPMENT
 - 6 CONCRETE REPAIR & COATING
 - 7 EXISTING WELL No. 2, MODIFIED
 - 8 EXISTING WELL No. 3 WITH NEW WELLHEAD
 - 9 NEW SURGE TANK
 - 10 EXISTING CENTRATE DRAIN PIPING (TO BE LINED)
 - 11 EXISTING WELL No. 1 & HYDROTANK
 - 12 New PEPS

| | | | | |
|--|--|---|--|---|
| <p>DATE: 02-14-2018 BY: [Signature] CHECKED: [Signature]</p> | | <p>Consultants:</p> <p>Stantec 3501 Riverchase Rd. Irvine, CA 92614 Tel: 949.273.8000 Fax: 949.273.8448 www.stantec.com</p> | <p>Client / Project: City of Modesto Water Pollution Control Facilities WASTEWATER TREATMENT PLANT REHABILITATION PROJECT Modesto, California Project No. 184620091</p> | <p>Title: OVERALL SITE PLAN AND REHABILITATION PROJECT INDEX</p> <p>Drawing No. G002 Sheet 3 of 64 Scale 1"=40' Revision 0</p> |
|--|--|---|--|---|

ATTACHMENT 3

PROJECT PICTURES



Figure 1: Digester # 1 Mixing System



Figure 2: Digester # 1 Heat Exchanger Rehab



Figure 3: Digester 1-3 Valve Replacement



Figure 4: Primary Scum and Sludge Pumps Replacements



Figure 5: Primary Clarifier # 1-3 New Sludge Collection Equipment



Figure 6: Concrete Repair and Coating



Figure 7: Existing Well # 2 Modifications



Figure 8: Existing Well #3 with New Wellhead



Figure 9: New Surge Tank



Figure 10: Existing Centrate Drain Pipeline (To Be Lined)



Figure 11: Existing Well #1 and Surge Tank (Removal)



Figure 12: New PEPS