



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA12-142**

1. Agenda Item Number: 16
2. Council Meeting Date: March 8, 2012

TO: MAYOR & COUNCIL

3. Date Prepared: February 22, 2012

THROUGH: CITY MANAGER

4. Requesting Department: Municipal Utilities

5. SUBJECT: Award Change Order No. 1 to Achen-Gardner Construction, LLC for modifications to Phase 1 of the Ocotillo Water Reclamation Facility (OWRF)/Airport Water Reclamation Facility (AWRF) wastewater lift station and 42" gravity sewer line, Project No. WW1104-401, in an amount not to exceed \$2,131,632.13 for a revised total contract amount not to exceed \$14,817,414.84, contingent upon written notification from Intel and appropriate funding.

6. RECOMMENDATION: Staff recommends Council award Change Order No. 1 to Achen-Gardner Construction, LLC, for modifications to Phase 1 of the Ocotillo Water Reclamation Facility (OWRF)/Airport Water Reclamation Facility (AWRF) wastewater lift station and 42" gravity sewer line, Project No. WW1104-401, in an amount not to exceed \$2,131,632.13 for a revised total contract amount not to exceed \$14,817,414.84, contingent upon written notification from Intel and appropriate funding.

7. BACKGROUND/DISCUSSION: Staff identified the need for new wastewater infrastructure to accommodate Intel's plant expansion on South Dobson Road. Facilities to be constructed include a lift station to transfer increasing volumes of wastewater from Ocotillo Water Reclamation Facility (OWRF) to Airport Water Reclamation Facility (AWRF). Additional work includes a 42" gravity sewer line from Intel's property line north to a junction structure, connecting to a 66" diameter sewer line upstream of the proposed lift station. The new lift station will also add system backup to the City's smaller existing lift station and force main system.

Work included in this change order is required due to redefinition of wastewater characteristics from Intel. The 42" sewer line will be modified to include an additional junction structure and gates. The lift station will be expanded to allow for blending options for the incoming wastewater. Design for this added work is being completed by Wilson Engineers as part of their contract amendments approved by Council on January 26, 2012.

8. EVALUATION: On October 27, 2011, Council approved a Construction Manager at Risk construction services contract to Achen-Gardner Construction, LLC. The contractor was selected in accordance with State Law for design services. Staff reviewed the scope of work, billing rates, and total fee for this project, compared them to historical costs, and determined they are reasonable.

9. FINANCIAL IMPLICATIONS:

Cost:	\$12,685,782.71	Original Contract
	<u>\$ 2,131,632.13</u>	Change Order No. 1
	\$14,817,414.84	Total
Savings:	N/A	
Long Term Costs:	N/A	
Fund Source:		

<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
615.3910.5219.6WW022	Wastewater Operating	Water Reclamation Facility Expansion	Yes	\$2,131,632.13

10. PROPOSED MOTION: Move Council award Change Order No. 1 to Achen-Gardner Construction, LLC for modifications to Phase 1 of the Ocotillo Water Reclamation Facility (OWRF)/Airport Water Reclamation Facility (AWRF) wastewater lift station and 42" gravity sewer line, Project No. WW1104-401, in an amount not to exceed \$2,131,632.13 for a revised total contract amount not to exceed \$14,817,414.84, contingent upon written notification from Intel and appropriate funding, and authorize the Mayor to sign the contract documents.

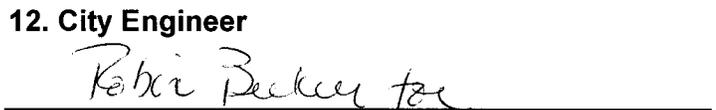
ATTACHMENTS: Contract, Location Map

APPROVALS

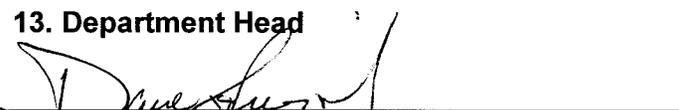
11. Requesting Department


John Knudson, Utilities Engineering Manager

12. City Engineer


Sheina Hughes, City Engineer

13. Department Head


Dave Siegel, Municipal Utilities Director

14. City Manager


Rich Dlugas

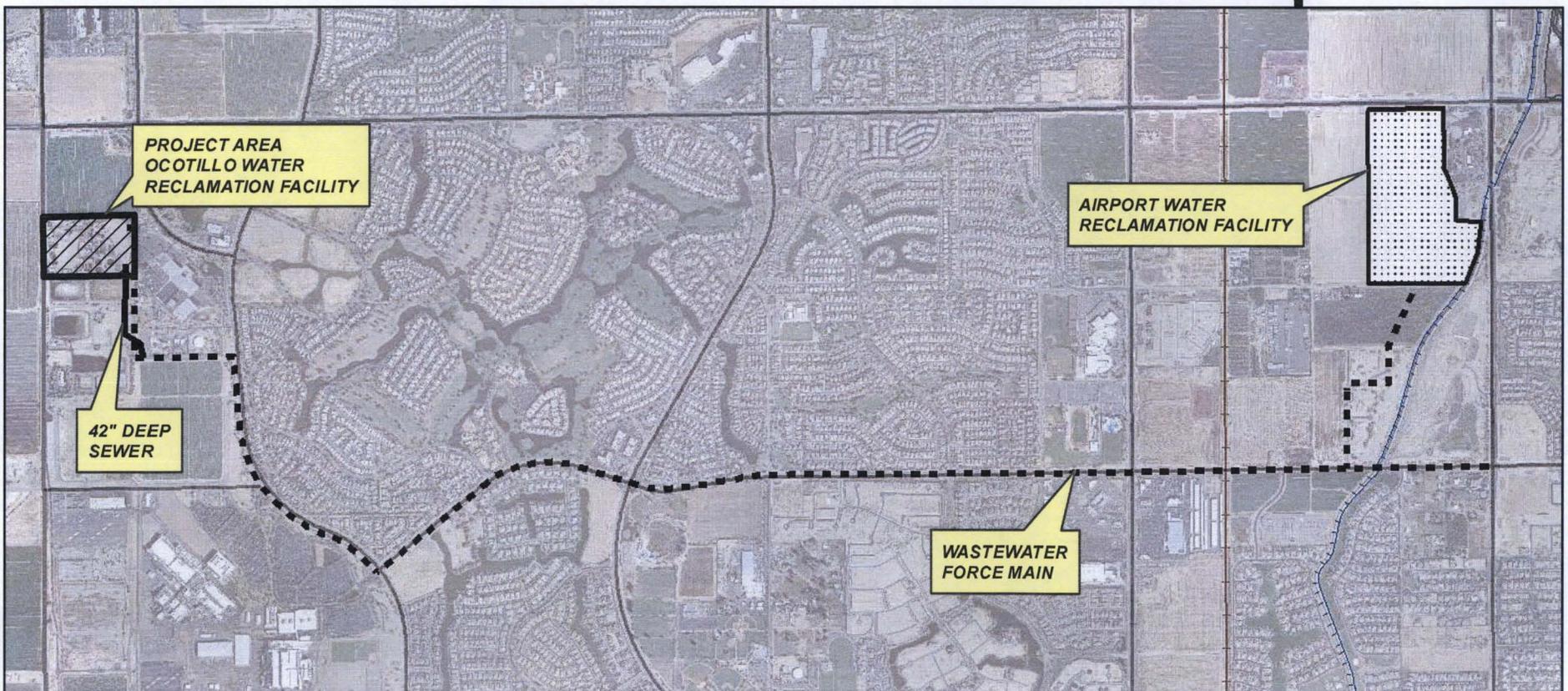


WASTEWATER LIFT STATION, JUNCTION STRUCTURE, AND 42" SEWER LINE PROJECT NO. WW1104-401



- PROJECT AREA
- RECLAMATION FACILITY
- 42" RELIEF SEWER
- WASTEWATER FORCE MAIN

MEMO NO. CA12-142



CITY OF CHANDLER CHANGE ORDER
CHANGE ORDER NUMBER 1
DATE 2/16/12

This Change Order is not valid until signed by both the City and the Contractor. Signature of the Contractor indicates agreement herewith, including any adjustments in the Contract Price or Contract Time.

PROJECT NAME	<u>OWRF/AWRF Lift Station/Deep Sewer</u>	CONTRACTOR	<u>Achen-Gardner Construction, LLC</u>
PROJECT NO.	<u>WW1104-401</u>	COST ACCT #	
USER DEPT	<u>Municipal Utilities</u>	NTP DATE	<u>11/10/11</u>

TO: Achen-Gardner Construction, LLC
(CONTRACTOR)

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES TO THIS CONTRACT:
(Describe changes in detail and/or reference attached cost breakdown sheet.)
Work included in this change order is required due to redefinition of wastewater characteristics from Intel. The lift station will be expanded to allow for blending options for the incoming wastewater. The 42" sewer line will be modified to include an additional junction structure and gates. The design changes are specifically described in Exhibits A and B, attached hereto and incorporated herein by reference.

THESE CHANGES RESULT IN THE FOLLOWING ADJUSTMENTS OF CONTRACT PRICE AND TIME:

ORIGINAL CONTRACT AMOUNT:	<u>\$12,686,782.71</u>
CURRENT CONTRACT PRICE PRIOR TO CHANGE ORDER (Including previous change orders)	<u>\$12,686,782.71</u>
NET CHANGE RESULTING FROM THIS CHANGE ORDER:	<u>\$2,131,632.13</u>
REVISED CONTRACT PRICE INCLUDING THIS CHANGE ORDER:	<u>\$14,817,414.84</u>
CHANGE ORDER IS % OF ORIGINAL CONTRACT AMOUNT:	<u>16.80%</u>

CONTRACT TIME OR COMPLETION DATE PRIOR TO THIS CHANGE ORDER (Including previous change orders):	<u>600</u>
	DAYS DATE

NET CHANGE RESULTING FROM THIS CHANGE ORDER:	<u>0</u>
	DAYS

REVISED CONTRACT TIME AND COMPLETION DATE:	<u>600</u>
	DAYS DATE

THE ABOVE IS AGREED TO BY:

<u>Achen-Gardner Construction, LLC</u>		<u>2-29-12</u>
CONTRACTOR	Signature:	Date

CITY OF CHANDLER (Date & Name of Owner Dept. verbal approval): John Knudson 2/15/12

For Change Orders of less than \$50,000 and 10% of contract price:

Title:	Signature:	Date:
<u>Director or Designee</u>		

Or (but not both)
For Change Orders of \$50,000 or more, or 10% or more of contract price:

<u>MAYOR</u>	Date:
Approved by Council on:	
Date	Attest: City Clerk
Approved at to Form:	Date
City Attorney by: 	

EXHIBIT A

This scope of work is a summary of additional work identified for the Airport LS project. The agency review set drawings (90% plans) are complete for the structural/excavation/civil package (Package 1) and an approval was obtained from the Maricopa County for Package 1 work which can now proceed with construction. Package 2 drawings, which include Process, Mechanical, Electrical, and Instrumentation work are at about 75% design level (60% drawings were submitted on November 8th). Changes to the design would require revisions to the design report and resubmission of drawings to the County and City Building Department for approval. The following paragraphs identify additional project elements that will be incorporated into the design.

- Revise the current lift station layout to receive flows from the south side in addition to the current layout. This will include capability to isolate flows to either of the two bays while incorporating a 42-inch VCP and new Junction Structure connection from the 42-inch diameter sewer line.
- Add an additional bay to the currently configured pump station to facilitate flows to the Ocotillo WRF. Add a new pipe line to discharge these flows to the Ocotillo WRF influent.
- Extend the overhead canopy to the south side to allow removal of new pump to the Ocotillo WRF.
- Revise control strategy to allow operation of the pump station with different settings (i.e. pump station operation with separate bays or together). Incorporate controls to convey flows to the Ocotillo WRF.
- Revisions to the Design Report for submission to the County for approval.

This scope of work is a summary of additional work identified for the South Chandler Gravity Sewer Design. The gravity sewer line will convey planned flows from Intel to the Ocotillo Water Reclamation Facility. The quantity and characteristics of the flows previously determined as part of the original project shall continue to be the basis for the realignment. The gravity sewer is planned to be a 42-inch diameter sewer with the required number of manholes along the alignment.
Specific Items to be included in the Design:

- Approximately 2,600 lf of 42-inch VCP gravity sewer and associated manholes – approximately ¼ of the length of the current design is anticipated to change and the rest of the alignment will remain the same. Flow line will be modified to accommodate revised alignment and segment lengths.
- A second junction structure in addition to the proposed junction structure that connects the 42-inch line to the 66-inch gravity sewer line. This structure would have two manually operated gates to allow flows to either the 66-inch gravity line or to the Airport Lift Station.
- Gravity flow meter with signal sent to Chandler and with the capability to split the signal with Intel if so desired. The design of Intel's communication either on Chandler property or Intel's property is not included in the scope of work.
- Automatic Composite Sampler: Design of a new sampling station at the location of the flow meter manhole to obtain a composite sample. It is anticipated to be set up with a submersible pump, piping, composite sampler, and small shade canopy.

This change order addresses increased scope of services associated with the recent Lift Station and 42-inch Sanitary Sewer re-design.

The proposed increase in fees reflects the additional services required to evaluate and administer the changes being made to the Lift Station and 42" SS plans.

EXHIBIT B

GMP 1 – Phase 1, 42-inch sanitary sewer and related	\$3,504,398.77
GMP 1A – Phase 1 scope amendment to 42-inch Sanitary Sewer and related	<u>\$2,247.12</u>
Revised Total (42-inch sanitary sewer and related)	\$3,506,645.89

GMP 1 – Phase 2, Lift Station Long Lead Allowances (partial scope)	\$9,181,383.94
GMP1A – Phase 2, Lift Station (partial scope)	<u>\$2,129,385.01</u>
Revised Total (Lift Station partial scope)	\$11,310,768.95

GMP 1 + GMP 1A Total	\$14,817,414.84
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