



Interoffice Memorandum

October 16, 2017

TO: Mayor Teresa Jacobs
and Board of County Commissioners

FROM: Raymond E. Hanson, P. E., Director
Utilities Department

A handwritten signature in black ink, appearing to read "R. Hanson", is written over the "FROM" line.

**SUBJECT: BCC Agenda Item – Consent Agenda
October 31, 2017 BCC Meeting
Change Order Number 1 to Contract No. Y17-709-PH Oak
Meadows Water Supply Facility Production Well OM-5
Contact Person: Troy Layton, BCEE, Manager
Utilities Field Services Division
407-254-9794**

All Webbs Enterprises, Inc., has submitted a price proposal for additional services under the terms of contract Y17-709-PH regarding unforeseen conditions.

The project is comprised of the construction and development of a new 1,500-foot deep production well OM-5. During construction, the drilling entered an unstable zone where excess material infill was continually being removed from the well, creating a cavern or void. This void prevents the well casing from being sealed properly as required per the Water Management District well permit.

The proposed Change Order Number 1 in the amount of \$366,756 provides for additional work due to the unforeseen conditions caused by the geological formation. The contractor proposes slip lining the well through the unstable zone to permit the continuation of drilling to the required depth. The slipped line hole allows the contractor to fill the void without impacting the new well. Additional material and cement is required to fill the void to protect the aquifer system and meet permit conditions.

The original contract was in the amount of \$878,650. This change order increases the contract value by \$366,756 or 41.7%. The revised contract amount is \$1,245,406.

Action Requested: Approval and execution of Change Order Number 1 to Contract No. Y17-709-PH Oak Meadows Water Supply Facility Production Well OM-5 to All Webbs Enterprises, Inc. in the amount of \$366,756 for a revised contract amount of \$1,245,406.

District 6.

ORANGE COUNTY UTILITIES

Engineer WSP USA, Inc.

Sequence No. 78865

[illegible]

		Totals		\$366,756.00	\$0.00
Percent Complete Time 72%	Percent Complete Cost: 35%	Net Dollars This Change Order	\$366,756.00		
Total Time Previous Change Orders	Days	Net Dollars Previous Change Order			
Total Time This Change Order	111 Days	Net Dollar Changes to Date	\$366,756.00		
Original Contract Time	180 Days	Original Contract Dollar Amount	\$878,650.00		
Revised Contract Time	291 Days	Revised Contract Dollar Amount	\$1,245,406.00		

CONTRACTOR

This change order includes not only all direct costs of contractor such as labor, material, job overhead, and profit markup but also includes any costs for modifications or changes in sequence of work to be performed, delays rescheduling, disruptions, extended direct overhead, acceleration, material, or other escalation which includes wages, and other impact costs.

BY Daniel Date 10/6/2017
Contractor's Signature

BY: DAVID WEBB JR Vice Pres
Accepted for Contractor By: Print Name & Title

ORANGE COUNTY UTILITIES

Approval Recommended:

By *Lamar Hunt* Date 10/9/2017
Chief Inspector Name:

By [Signature] Date 10/9/11
Manager

By  Date 10-13-17
Director Utilities

Kit Salas Date 10.31.17
Orange County Mayor





Mr. James Montalvo
9150 Curry Ford Rd.
Orlando, FL 32825

September 19, 2017

RE: Oak Meadows Water Supply Facility Production Well OM-5 Request for Change Order

The purpose of this letter is to communicate the events to date that have led to changes in the work, associated costs and additional time, and recommendations to proceed.

The project includes the construction of Well OM-5 and assessment of OM 3 & 4. The work has been performed according to contract specifications and per authorization by The County and its representatives. The design was based on available knowledge in the geographical area. During drilling the actual geological conditions were discovered. A description of the discoveries and changes to the construction are listed below.

No.	Description	Spec Qty	Unit	Cost	Act. Qty	Change
3	Drill 8" Pilot Hole – The pilot hole was drilled to deeper to determine the composition of the earth and a suitable depth to set the surface casing that consisted of rock instead of sand.	75	LF	\$115	80	\$ 575
4	Drill Nominal 36" Borehole – The casing seat was determined to be 78 feet and the reamed hole was increased to facilitate the casing depth.	75	LF	\$200	78	\$ 600
5	F/I 30" Surface Casing – As above.	75	LF	\$150	78	\$ 450
6	Cement Grout 30" Casing – The 30" casing required additional grout due to loss of cement to the formation and the additional depth.	184	SK	\$25	216	\$ 800
7	Drill 8" Pilot Hole – The pilot hole was drilled deeper to find rock to set the casing, determined to be 277 feet.	175	LF	\$115	205	\$ 3,450
8	Drill Nominal 30" Borehole – The 30" hole was drilled deeper to set the 24" casing at 277 feet.	175	LF	\$165	199	\$ 3,960
10	F/I 24" Intermediate Casing – The 24" casing was set deeper at 277 feet.	250	LF	\$130	277	\$ 3,510
11	Cement – Additional cement was installed based on the composition of the earth. 1. Cement was pumped into the well and did not fill up as anticipated. More cement was required to fill the voids and seal the casing.	435	SK	\$ 25	2159	\$ 43,100

	2. A second attempt to seal the area between the casing and the formation was performed at 277 feet, to try to stop sand from infilling it work temporarily then the formation filled in again.					
1A	Work scope change - Infill at 77 feet prevented further drilling. See supporting document.					\$ 142,311
2A	Work scope change – Infill at 277 has occurred and is preventing further drilling without an alternate approach. See supporting document.					\$ 168,000
	Total Amount					\$366,756

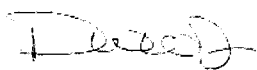
The additional contract time for the work completed to date and proposed work is 111 contract days, plus additional time for approval by the County and procurement of materials.

AWE has been operating in good faith to complete the project at the design rate of 2,500 gpm. Due to reasons beyond our control, the project has been delayed causing an impact to AWE, therefore requests one of three options:

1. Approval to proceed with 22" slip liner option with payment for work to date.
2. Authorization from the County for AWE to demobilize from site and mobilize after approval has been granted for the contract rate of \$42,000.
3. Payment for standby until the decision is made to proceed.

We appreciate your support keeping the project moving and making it successful.

Sincerely,



David Webb Jr.