

CHANGE ORDER

No. 1

PROJECT: *South County Water Treatment Plant Well No. 7 Well, Wellhead, Appurtenances and South Oslo Road Water Treatment Plant Floridan Aquifer Wells Rehabilitation Project*

DATE OF ISSUANCE March 24, 2017 EFFECTIVE DATE April 4, 2017

OWNER Indian River County

OWNER's Contract No. 201 6031 Project No. _____

CONTRACTOR All Webbs Enterprises. ENGINEER Kimley-Horn and Associates

You are directed to make the following changes in the Contract Documents:

Description: Constructing a new Upper Floridan Aquifer Well.

Reason for change order: The existing well S-4 was determined to be unusable and was determined that a new well be drilled adjacent to the existing well.

Attachments: (List documents supporting change) Schedule of Bid Items Dated 3/17/17

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIME
Original Contract Price \$ <u>1,477,360.00</u>	Original Contract Times Substantial Completion: <u>180</u> Ready for final payment: <u>240</u> Days or dates
Net changes from previous Change Orders No. <u> </u> to No. <u> </u> \$ <u>0.00</u>	Net change from previous Change Orders No. <u> </u> to No. <u>1</u> _____ days
Contract Price prior to this Change Order \$ <u>1,477,360.00</u>	Contract Time prior to this Change Order Substantial Completion: <u>180</u> Ready for final payment: <u>240</u> Days or dates
Net Increase (decrease) in this Change Order \$ <u>1,051,783.57</u>	Net Increase in this Change Order <u>250</u> days
Contract Price with all approved Change Orders \$ <u>2,529,143.57</u>	Contract Time with all approved Change Orders Substantial Completion: <u>430</u> Ready for final payment: <u>490</u> Days or dates

RECOMMENDED:

By: Mark D. Miller
Engineer (Authorized Signature)
Mark D. Miller, Kimley-Horn and Associates
Date: 3/27/17

APPROVED:

By: _____
Owner (Authorized Signature)
Date: _____

ACCEPTED:

By: D. Miller
Contractor (Authorized Signature)
Date: 3/27/17

South County Oslo Rd Water Treatment Plant - Upper Floridan Aquifer Production Well #4R REPLACEMENT								
			CHANGE ORDER AMOUNT			All Webbs Enterprises BID		
Item No.	Well 4 Materials & Services	UOM	Unit Rate	Quantity	Total	Unit Rate	Total	
	PLUG AND ABANDON EXISTING WELL S-4	LS	\$28,000	1	\$28,000			
	DEMOLISH EXISTING WELL S-4	LS	\$25,000	1	\$25,000			
	GENERATOR, ENCLOSURE, ATS	LS	\$103,500	1	\$103,500			
1	General - SIMILAR TO WELL 7							
a	Well Construction Permit	LS	\$ 5,040	1	5,040	\$ 5,040	\$ 5,040	
2	Site Preparation and Restoration							
a	Sediment and Erosion Control	LS	\$ 4,200	1	4,200	\$ 4,200	\$ 4,200	
b	Site Restoration	LS	\$ 16,000	1	16,000	\$ 16,000	\$ 16,000	
3	Installation of UFA Production Well No. 4R							
a	Mobilization/Demobilization (Cannot exceed 10% of the total well construction costs)	LS	\$ 83,000	1	83,000	\$ 83,000	\$ 83,000	
b	Drill 12" pilot borehole to 130'±	FT	\$ 85	130	11,050	\$ 85	\$ 10,200	
c	Perform geophysical logging (caliper, gamma and electric)	LS	\$ 3,500	1	3,500	\$ 3,500	\$ 3,500	
d	Ream 32" nominal diameter borehole	FT	\$ 220	130	28,600	\$ 220	\$ 26,400	
e	Furnish, install and grout in place 26" OD .375" steel surface casing	FT	\$ 260	130	33,800	\$ 260	\$ 31,200	
f	Drill 12" pilot borehole (from 130' to 415'±)	FT	\$ 85	285	24,225	\$ 85	\$ 23,800	
g	Perform geophysical logging (caliper, gamma and electric)	LS	\$ 3,500	1	3,500	\$ 3,500	\$ 3,500	
h	Ream 25" nominal diameter borehole (from 130'-415'±)	FT	\$ 150	285	42,750	\$ 150	\$ 42,000	
i	Perform geophysical logging (caliper and gamma)	LS	\$ 3,000	1	3,000	\$ 3,000	\$ 3,000	
j	Furnish, install and grout in place 16-inch ID .375" wall fiberglass or 17.4 OD SDR 17 1.024" wall PVC final casing	FT	\$ 130	415	53,950	\$ 130	\$ 52,000	
k	Drill nominal 15-inch borehole (from 415'-700'±)	FT	\$ 110	285	31,350	\$ 110	\$ 33,000	
l	Perform well development	HR	\$ 350	120	42,000	\$ 350	\$ 4,200	
m	Perform static and dynamic geophysical and video logging (full logging suite per Section	LS	\$ 8,500	1	8,500	\$ 8,500	\$ 8,500	
n	Conduct step drawdown test	LS	\$ 3,000	1	3,000	\$ 3,000	\$ 3,000	
o	Collect Primary and Secondary water samples	LS	\$ 6,200	1	6,200	\$ 6,200	\$ 6,200	
p	Furnish and install 100 HP vertical turbine pump assembly including flanged column pipe, spider bearings and discharge head	LS	\$ 155,000	1	155,000	\$ 155,000	\$ 155,000	
q	Furnish and install 10" stainless steel discharge piping and appurtenances (including expansion joint, blowoff valve, pressure sustaining valve, flow meter, etc.)	LS	\$ 40,000	1	40,000	\$ 40,000	\$ 40,000	
r	Furnish and install 12" PVC discharge piping (as shown, below grade)	LS	\$ 25,000	1	25,000	\$ 25,000	\$ 25,000	
s	Furnish and install well pedestal, housekeeping pad and pipe supports	LS	\$ 26,000	1	26,000	\$ 26,000	\$ 26,000	
t	Furnish and install electrical panel (VFD & CONTROL PLC PANEL)	LS	\$ 87,920	1	87,920	\$ 48,000	\$ 48,000	
u	Furnish and install Fiber Optic Communication	LF	\$ 168,300	1	168,300	\$ 170,000	\$ 170,000	
v	Furnish and install 6' green vinyl coated chain link fence with vinyl privacy slats	LF	\$ 40	120	4,800	\$ 40	\$ 4,800	
w	Furnish and install 12' Swing Gate	LS	\$ 1,500	1	1,500	\$ 1,500	\$ 1,500	
x	Complete Setup & Removal for Acidization Including Removal	LS	\$ 5,000	1	5,000	\$ 5,000	\$ 5,000	
y	Well Acidization	GAL	\$ 4	4,000	16,000	\$ 4.00	\$ 16,000	
4	Allowance							
a	Contractor's provision for equipment standby time	Hour	\$ 80	24	\$ 1,920	\$ 80	\$ 1,920	
b	Contractor's provision for equipment and crew standby time	Hour	\$ 150	24	\$ 3,600	\$ 150	\$ 3,600	
c	Conduct single or straddle packer test	LS	\$ 7,000	0	\$ -	\$ 7,000	\$ 7,000	
d	Contingency Allowance	LS	\$ 20,000	0	\$ -	\$ 20,000	\$ 20,000	
A - Well 4 Materials & Services					TOTAL	1,095,205	\$ 882,560	

Item No.	B - Floridan Aquifer Well S-4 Rehabilitation - CREDITS	UOM	Unit Rate	Quantity	Total	Unit Rate	Total
1	Bonds and Insurance	LS	\$ 46,429	1	46,429	\$ 65,000	\$ 65,000
2	S-3R Mobilization/Demobilization/General Conditions	LS		1		\$ 22,000	\$ 22,000
3	S-4 Mobilization/Demobilization/General Conditions	LS	\$ 36,000	0.5	-\$18,000	\$ 36,000	\$ 36,000
4	S-5 Mobilization/Demobilization/General Conditions	LS		1		\$ 26,000	\$ 26,000
5	S-6 Mobilization/Demobilization/General Conditions	LS		1		\$ 26,000	\$ 26,000
6	Complete removal and re-installation of pump discharge apparatus with Disinfection	LS	\$ 7,500	0.5	-\$3,750	\$ 15,000	\$ 60,000
7	Geophysical Logging (complete set)	LS	\$ -	1	\$0	\$ 8,500	\$ 34,000
8	Perform complete video log (Initial)	LS	\$ -	1	0	\$ 3,500	\$ 14,000
9	Complete setup and removal for acidization including removal of spent acid	LS	\$ 7,900	1	-7,900	\$ 7,900	\$ 31,600
10	Well Acidization	GAL	\$ 4.50	4,000	-18,000	\$ 4.50	\$ 72,000
11	Pump Develop well (change in price to rehab devel rate, quantity discount)	HR	\$ 100	120	-12,000	\$ 250	\$ 60,000
12	Specific capacity pumping test	HR	\$350	12	-4,200	\$ 350	\$ 4,200
13	Perform complete video log (final)	LS	\$ 2,000	1	-2,000	\$ 2,000	\$ 8,000
14	Formation Water Disposal System	LS	\$ -	1	0	\$ 10,000	\$ 40,000
15	Perform site restoration	LS	\$ 4,000	1	-4,000	\$ 4,000	\$ 16,000
16	Well Maintenance-Contingency Allowance	LS	\$ (20,000)	1	-20,000	\$ 20,000	\$ 20,000
B - Well 4 REHABILITATION - Materials & Services					TOTAL	\$ (43,421.43)	\$ 534,800
A - WELL 4 PRICE MATERIALS & SERVICES:					\$ 1,095,205.00		\$ 882,560
B - WELL REHABILITATION - FORM B TOTAL:					\$ (43,421.43)		\$ 534,800
TOTAL CHANGE ORDER (A + B):					\$ 1,051,783.57		\$ 1,417,360