



July 20, 2022

Harrison Youngblood  
Indian River County Department of Utility Services  
4350 41<sup>st</sup> Street  
Vero Beach, FL 32960

**RE: *Indian River County Department of Utility Services  
South Oslo Road Water Treatment Plant  
Change Order 1 – Switchgear and Raw Water Blend Assembly Replacement***

Harrison,

The intent of this letter is to outline our recommendation to Indian River County Department of Utility Services (IRCDUS) to utilize a change order for the Water Treatment Plant (WTP) Improvements project with TLC Diversified, Inc. to replace antiquated switchgear assembly and the existing raw water blend filter vessel and piping assembly at the South Oslo Road Water Treatment Plant.

**1. Switchgear:** The WTP receives utility power from Florida Power and Light (FPL) for operation. Incoming power enters through the existing 2,000-Amp switchgear that is used to control, protect, and isolate electrical equipment. The switchgear can receive utility power from FPL or backup power from the 1,250kW generator via Automatic Transfer Switch (ATS), and transmit electricity to each of the respective Motor Control Centers (MCCs) that are necessary to run treatment and pumping equipment. The switchgear is a critical element of the WTP and needs to be replaced. Our team, including our electrical engineer subconsultant C&W Engineering, were aware of the upcoming need to replace the switchgear during the investigative work performed as part the ATS replacement, which began about two (2) years ago. Based on the findings, it was recommended to budget replacement. Since time has passed, the motorized breakers in the switchgear have exhibited failures and replacement is now urgent.

**2. Raw water blend:** The WTP utilizes raw water blend to stabilize their finished water quality. Historically, the piping has had leaks forcing Indian River County to utilize a welder to “patch” the piping to maintain operations. Most recently, the blend filter vessel failed, forcing operations to bypass the vessel altogether. These components are past their useful life and replacement is recommended.

TLC Diversified, Inc., the prime contractor for the WTP Improvements project, provided a proposal to replace this equipment in the amount of \$483,563.83. This includes a 15% markup on self-performed work and 5% markup subcontracted work in accordance with the project contractual documents. It is our professional opinion that this cost is fair and commensurate with the market and recommend this work be added to the WTP Improvements project as a change order to TLC.

I trust this information useful. Should you need additional information or have any questions regarding this project, please do not hesitate to contact me at 561-421-1979.

Sincerely,

A handwritten signature in blue ink, appearing to read "Nick Black".

Nick Black, P.E.  
PE# 84908

Cc: Mark Miller (KHA), Mike Vernon (IRCU), Rich Meckes (IRCU), Bert King (KHA)

Attachments: Proposal from TLC

**CHANGE ORDER**

No. 1

PROJECT: South Oslo Road WTP Improvements

DATE OF ISSUANCE: July 20, 2022 EFFECTIVE DATE: \_\_\_\_\_

OWNER: Indian River County

OWNER's Contract No.: 2021026

Project No.: 044572102

CONTRACTOR: TLC Diversified, Inc

ENGINEER: Kimley-Horn & Associates, Inc.

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

Description: This change order instructs the Contractor to furnish/install the following for the lump sum of \$483,563.83:

1. Replacement switchboard and replacement raw water blend assembly

Reason for change order: Necessity to maintain plant operation. *FAILURE OF EXISTING EQUIPMENT.*

Attachments: Quotations, Cover Letter

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIME
Original Contract Price \$ <u>10,665,515.65</u>	Original Contract Times: Substantial Completion: <u>760</u> Ready for final payment: <u>820</u>
Net changes from previous Change Orders No. <u>   </u> to No. <u>   </u>	Net change from previous Change Orders: No. <u>   </u> to No. <u>   </u>
Contract Price prior to this Change Order \$ <u>10,665,515.65</u>	Contract Time prior to this Change Order Substantial Completion: <u>760</u> Ready for final payment: <u>820</u> Days or dates
Net Increase (decrease) in this Change Order \$ <u>483,563.83</u>	Net Increase in this Change Order <u>0</u> days
Contract Price with all approved Change Orders \$ <u>11,149,079.48</u>	Contract Time with all approved Change Orders Substantial Completion: <u>760</u> Ready for final payment: <u>820</u> Days or dates

RECOMMENDED:

By: *Nick Black*  
Engineer (Authorized Signature)  
*Nick Black, P.E. Kimley-Horn*

Date: 7-20-2022

APPROVED:

By: \_\_\_\_\_  
Owner (Authorized Signature)

Date: \_\_\_\_\_

ACCEPTED:

By: *Mark S. J.*  
Contractor (Authorized Signature)

Date: 07/21/2022

EJCDC No. C-700 (2002 Edition)

Prepared by the Engineers Joint Contract Documents Committee and endorsed by The Associated General Contractors of America.



Kimley-Horn  
1920 Wekiva Way, Suite 200  
West Palm Beach, FL 33411

19-July-2022

Attn: Mr. Nick Black, P.E. [Nick.Black@Kimley-Horn.com](mailto:Nick.Black@Kimley-Horn.com)

Reference: Change Request for Cartridge Filter with Piping & Flowmeter, 2000 AMP Switchboard.

Dear Mr. Black,

Please find a quotation for the changes requested in your email of 08-March-2022.

Labor =	\$ 8,175.00
Material =	\$121,454.74
Subcontract =	\$293,922.00 ✓
Equipment =	\$ 2,700.00
Labor Burden =	\$ 2,861.25
Tax =	\$ 8,690.83
OH & P subs 5% =	\$ 14,696.10
OH & P @ Self Perform 15% =	\$ 21,582.27
Subtotal =	\$474,082.19
Bond =	\$ 9,481.64
Total ADD =	<b>\$483,563.83</b>

With the current supply chain delays that have been discussed in the project meetings it is difficult to quantify the additional time required to quote this change. TLC is therefore reserving our rights to additional time for the project that will be determined at a later date. Please provide your acceptance of this additional work and issue a change order so that TLC can release the required items for production.

Sincerely Yours,

  
John P. Elder

Project Manager