

<b>LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT CONTRACT CHANGE ORDER</b> Page 1 of 2		Date:	November 27, 2018	
		Project:	Town Branch WWTP Primary Digester Complex Improvements	
		Location:	Town Branch WWTP	
To (Contactor): Judy Construction Company PO Box 457 Cynthiana, KY 41031		Contract No.	Bid No. 181-2017 <del>RES # 68-2018</del>	
		Original Contract Amt.	\$9,746,750.00	
		Cumulative Amount of Previous Change Orders	\$0.00	
		Percent Change - Previous Change Orders		0.00%
		Total Contract Amount Prior to this Change Order	\$9,746,750.00	
		Change Order No.	1	
You are hereby requested to comply with the following changes from the contract plans and specification;				
<b>Current Change Order</b>				
Item No.	Description of changes-quantities, unit prices, change in completion date, etc.	Decrease in contract price	Increase in contract price	
1	Fill pits and swap spigot for hydrant		\$22,858.00	
2	Change boiler breakers from 120V to 480V		\$4,806.08	
3	Demo metering cabinet and shift MCC-J		\$1,966.50	
4	Change light fixtures from Class I, Div. 2 to Div. 1		\$2,588.00	
6	Change water heater to 277V		\$9,565.00	
7	Materials and installation for beam lentil		\$5,488.00	
8	Amount over allowance for SCADA integration		\$5,535.00	
9	Vertical expansion joint in Digester No. 3		\$1,152.00	
	Total decrease	\$0.00		
	Total increase		\$53,958.58	
	Net Amount of this Change Order	\$53,958.58		
	New Contract Amount Including this Change Order	\$9,800,708.58		
	Percent Change - This Change Order			0.55%
	Percent Change - All Change Orders			0.55%
The time provided for the completion in the contract and all provisions of the contract will apply hereto.				
Recommended by <u>Emily Epperson</u>		(Proj. Engr.)	Date <u>01/08/18</u>	
Accepted by <u>[Signature]</u>		(Contractor)	Date <u>12/20/18</u>	
Approved by <u>Jennifer M. Carey for CHM</u>		(Director)	Date <u>1/23/19</u>	
Approved by _____		(Commissioner)	Date _____	
Approved by <u>Linda Gordon</u>		(Mayor or CAO)	Date <u>MAR 07 2019</u>	

Recommended By T. J. Rank, P.E. 1/9/2019

**JUSTIFICATION FOR CHANGE**

PROJECT: Town Branch WWTP Primary Digester Complex Improvements

Bid No. 181-2017

CHANGE ORDER: 1

1. Necessity for change: Miscellaneous items found during the renovation in need of modification, some changes due to shop drawing review findings.
2. Is proposed change an alternate bid? \_\_\_Yes XNo
3. Will proposed change alter the physical size of the project? \_\_\_ Yes XNo  
If "Yes", explain.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? \_\_\_Yes XNot Necessary
6. Will this change affect expiration or extent of insurance coverage? \_\_\_Yes XNo  
If "Yes", will the policies be extended? \_\_\_Yes \_\_\_No
7. Effect on operation and maintenance costs: N/A
8. Effect on contract completion date: None

Linda Gorton  
Mayor

MAR 07 2019  
Date

Summary Chart for Change Order #1								
Project:		Town Branch Primary Digester Complex Improvements Lexington, Kentucky Bid # 181-2017	Key Ow = Owner    Om = Omission A/E = Architect/Engineer   C = Contractor					
No.	Date	Brief Description	Price	Change Requested by				CO No.
				Ow	A/E	C	Om	
1	5/23/2018	Change Order Proposal No. 1	\$22,858.00	X				1
		Fill engine blower silencer pits in Boiler Building and provide a hydrant instead of a spigot at the H2S unit.						
2	8/6/2018	Change Order Proposal No. 2	\$4,806.08			X		1
		Change the breakers for the boilers from 120V to 480V.						
3	7/18/2018	Request for Information No. 2/Change Order Proposal No. 3	\$1,966.50	X				1
		Demo metering cabinet and shift MCC-J.						
4	9/26/2018	Change Order Proposal No. 4	\$2,588.00		X			1
		Two light fixtures changed from Class I, Division 2 to Class I, Division 1.						
6	10/10/2018	Change Order Proposal No. 6	\$9,565.00		X			1
		Change water heater (EWH-2) to 277V. This requires changes to MCC and wiring.						
7	10/30/2018	Change Order Proposal No. 7	\$5,488.00		X			1
		Beam lentil materials and installation for Boiler No. 3 wall opening where an unexpected column was found inside the existing block wall.						
8	8/13/2018	ControlTouch Fee Over Allowance	\$5,535.00			X		1
		Allowance of \$30,000 was included in base bid for SCADA system integration. ControlTouch's proposal totaled \$34,813. Change includes Contractor's overhead and profit.						
9	8/21/2018	Vertical Expansion Joint in Digester No. 3	\$1,152.00		X			1
		The brick façade on Digester No. 3 is buckled outward in one location. Cornerstone recommends installing a full height vertical expansion joint. Cost is 18 LF at \$64/LF.						
Page TOTAL			\$53,958.58					



P.O. BOX 457 CYNTHIANA, KENTUCKY 41031  
Telephone (859) 234-6900 Fax (859) 234-3480  
www.judyconstructionco.com

Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Attn: Emily Epperson, P.E.

Re: Town Branch WWTP Primary Digester Complex Improvements  
Change Order Proposal # 1

Ms. Epperson,

We have prepared the following proposal to fill the existing silencer pits and to provide one (1) each Murdock M-150 Non-Potable Hydrant per CPR-1, issued on 5/23/2018.

- Fill two (2) each discharge silencer pits and cap with concrete
- Provide one (1) each Non-Potable Water Hydrant ..... \$22,858.00

Note: We have included rigid conduit from just below the existing slab elevation to each louver operator.

If this proposal is acceptable, please notify us and incorporate it into the next change order.

Thank you,

Paul Lawrence  
Project Manager

Cc: Ben Williams  
Darryl Wells  
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www.judyconstructionco.com

8/6/2018

Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Attn: Emily Epperson, P.E.

Re: Town Branch WWTP Primary Digester Complex Improvements  
Change Order Proposal #2  
Boiler Breakers

Ms. Epperson,

We have prepared the following proposal to make the necessary changes to the breakers for the boiler change from 120V to 480V as noted in the boiler submittal.

• Add 3ea 20A/3P breakers to MCC-N	.....	\$4,179.83
• JCC overhead and profit	.....	\$ 626.97
	TOTAL	\$4,806.08

If this proposal is acceptable, please notify us and incorporate it into the next change order.

Thank you,

Paul Lawrence  
Project Manager

Cc: Ben Williams  
Darryl Wells  
COP File



RFI NO. 2

DATE: 7/18/18

REQUEST FOR INFORMATION (RFI)

TOWN BRANCH DIGESTER IMPROVEMENTS

RFI Title MCC Changes

Spec Section # \_\_\_\_\_ Drawing # E3 & E4

Date Response Requested by: ASAP

QUESTION/CLARIFICATION

We are requesting the following changes for this project:

1<sup>st</sup> – The new “MCC-J” Main Breaker Sections will remain in the same locations as the existing “MCC-J” main breakers.

2<sup>nd</sup> – The existing Meter Cabinet shown in note #2 on sheet E-4 will be demolished completely. All remaining wiring after the abandonment of devices will be extended to existing Analog and Digital Cabinet “G”.

3<sup>rd</sup> – The (2) two new sections of “MCC-J” will be mounted to the right of the Main Breaker Section on the existing pad that the Meter Cabinet was removed from.

These changes will allow the walkway between “MCC-J” and Termination Cabinet “G” to remain the same and complete removal of the existing Metering Cabinet to the right of “MCC-J”. Please see attached drawings markups.

Our price for the above described changes is as follows:

Additional Material & Labor...	\$ 7,684.00
Deletion of Material & Labor <\$ 5,974.00>	
Grand Total Additional M&L..	\$ 1,710.00
JCC Overhead and Profit	\$ 256.50
TOTAL	\$ 1,966.50

If this meets with your approval we will include all changes in our as-built drawings. We can discuss this proposal and answer any questions during the 7/24/18 progress meeting.

CC:

SIGNED: Paul Lawrence

Paul Lawrence, Project Manager

RESPONSE:

REVIEWED BY OWNER/ENGINEER: \_\_\_\_\_

(Company)

(Individual)

(Date)

Distribution: Original Response Returned to Contractor



P.O. BOX 457 CYNTHIANA, KENTUCKY 41031  
Telephone (859) 234-6900 Fax (859) 234-3480  
www.judyconstructionco.com

September 26, 2018

Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Attn: Emily Epperson, P.E.

Re: Town Branch WWTP Primary Digester Complex Improvements  
Change Order Proposal # 4  
Light Fixture "B" Change

Ms. Epperson,

We have prepared the following proposal to change Light Fixture B from Holophane HPLED series (Class 1 Div. 2) that is called for in Addendum #3 to the HRLL series (Class 1 Div. 1) per the catalog provided by the electrical engineer during the submittal review.

• Change 2ea fixtures to Class 1 Div. 1	.....	\$2,250.00
• JCC overhead and profit	.....	<u>\$ 338.00</u>
	TOTAL	\$2,588.00

If this proposal is acceptable, please notify us and incorporate it into the next change order.

Thank you,

Paul Lawrence  
Project Manager

Cc: Ben Williams  
Darryl Wells  
COP File





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031  
Telephone (859) 234-6900 Fax (859) 234-3480  
www.judyconstructionco.com

October 10, 2018

Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Attn: Emily Epperson, P.E.

Re: Town Branch WWTP Primary Digester Complex Improvements  
Change Order Proposal # 6  
EWH-2 Changes

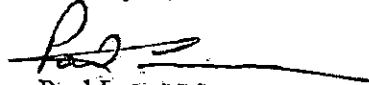
Ms. Epperson,

Per the engineer's comments on the MCC submittal, we have prepared the following proposal to change EWH-2 to 277v.

• Additional cost for 277v water heater	\$ 834.00
• Electrical changes in MCC and wiring	\$7,483.00
• JCC overhead and profit	<u>\$1,248.00</u>
TOTAL	<u>\$9,565.00</u>

If this proposal is acceptable, please notify us and incorporate it into the next change order.

Thank you,

  
Paul Lawrence  
Project Manager

Cc: Ben Williams  
Darryl Wells  
Nathan Robinson  
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P.O. BOX 457 CYNTHIANA, KENTUCKY 41031  
Telephone (859) 234-6900 Fax (859) 234-3480  
www.judyconstructionco.com

October 30, 2018

Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Attn: Emily Epperson, P.E.

Re: Town Branch WWTP Primary Digester Complex Improvements  
Change Order Proposal # 7  
Boiler Room Opening Shoring

Ms. Epperson,

When removing the block for the new opening in the boiler room a structural support column was uncovered in the existing block. Cornerstone Engineering came to the site and has provided a detail to properly support the column in the opening. We have prepared the following proposal to provide and install the new beam. We cannot offer a credit for the beam that was in the original bid because it was delivered to the site before the issues was discovered.

New Galvanized steel double channel lintel	\$3,445.00
Extra labor & materials to install and weld lintel	\$1,327.00
Overhead and profit	\$716.00
<b>TOTAL</b>	<b>\$5,488.00</b>

If this proposal is acceptable, please notify us and incorporate it into the next change order.

Thank you,

Paul Lawrence  
Project Manager

Cc: Ben Williams  
Darryl Wells  
Nathan Robinson  
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P.O. BOX 457 CYNTHIANA, KENTUCKY 41031  
Telephone (859) 234-6900 Fax (859) 234-3480  
www.judyconstructionco.com

8/14/2018

Strand Associates  
1525 Bull Lea Road, Suite 100  
Lexington, KY 40511

Attn: Emily Epperson, P.E.

Re: Town Branch WWTP Primary Digester Complex Improvements  
Change Order Proposal #3  
System Integration Allowance

Ms. Epperson,

I have received a quote from ControlTouch for the necessary updates to the existing SCADA system to integrate the new Digester Improvements as described in specification section 16940 and in the P&ID drawings. I have attached a copy of the proposal to this letter. The project includes an allowance of \$30,000.00 for System Integration. The total proposal amount from ControlTouch is \$34,813.00. We are requesting a change order in the amount of \$5,535.00 to cover the additional cost plus our overhead and profit on the \$4,813.00. Please feel free to contact me if you have any question regarding this request.

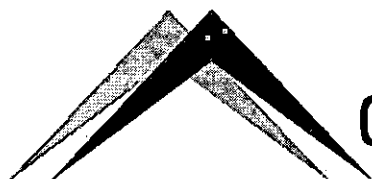
If this proposal is acceptable, please notify us and incorporate it into the next change order.

Thank you,

Paul Lawrence  
Project Manager

Cc: Ben Williams  
Darryl Wells  
COP File





# ControlTouch SYSTEMS, LLC

August 13, 2018

CTS Proposal Number: **180227 R1**

**Subject: Town Brach Digester Complex Improvements Project  
SCADA Integration Proposal**

This is our proposal to supply the necessary updates to the existing SCADA system to integrate the new Town Branch Digester Complex Improvements Project as described in Division 16940 of the bid specifications and the P&ID drawings.

The price below includes updating the existing graphics, database, and alarming on the existing SCADA system (Citect) currently installed at the Town Branch facility.

### **Deliverables:**

Our base proposal pricing includes the following:

- SCADA application modification as described above.
- One Onsite Meeting.
- One 8 Port (fiber optic) Expansion Module for the existing Stratix 8000 network switch in DCU G.
- Updates to the existing O&M manuals.
- 2 consecutive manhours of training on the new portion of the SCADA.
- One FAT to present the new SCADA screens to the customer.

### **Exclusions:**

Our base proposal pricing does not include the following:

- Any new SCADA hardware or software licenses unless specifically named above.
- All installation labor and materials required.
- PLC / HMI Programming.
- All work associated with the radio telemetry system including but not limited to the communication of the relevant data from the new system to the existing SCADA.
- All Hardware and Field Devices.
- Bonding.
- DBE Participation.
- Sales Tax

Our total price for this scope of work is ..... **\$ 34,813.00**

Performance and Payment Bond ..... **1%**

### **Terms and Conditions**

- Terms shall be net thirty (30) days from the date of the invoice.

*Control System Integration and Automation Solutions*

3101 Breckenridge Lane, 3<sup>rd</sup> Floor - Louisville, KY 40220  
(502) 452-9397 - Fax (502) 452-9373

- A charge of 1½% per month will be assessed for all overdue payments.
- Payment of invoices per the above terms must be paid in full.
- We request 10% of our total contract as a down payment for our services.
- Late payments may result in the suspension and/or termination of this service contract.

Sincerely,

Gerald Stanfill  
Director of Marketing and Sales  
ControlTouch Systems, LLC

Note: The above price is good for 90 days from the date above. Our standard terms are net 30 days. We acknowledge four Addendums to the specifications.

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*Control System Integration and Automation Solutions*

3101 Breckenridge Lane, 3<sup>rd</sup> Floor - Louisville, KY 40220  
(502) 452-9397 - Fax (502) 452-9373



Emily Epperson, P.E.  
Strand Associates, Inc.<sup>®</sup>  
859.225.8500 ext. 2225  
[emily.epperson@strand.com](mailto:emily.epperson@strand.com) | [www.strand.com](http://www.strand.com)

*Excellence in Engineering Since 1946.*

**From:** John Temple <[john@cei-engineering.com](mailto:john@cei-engineering.com)>  
**Sent:** Tuesday, August 21, 2018 5:27 PM  
**To:** Epperson, Emily <[Emily.Epperson@strand.com](mailto:Emily.Epperson@strand.com)>  
**Cc:** Georgiy Orlov <[georgiy@cei-engineering.com](mailto:georgiy@cei-engineering.com)>  
**Subject:** Town Branch- brick work

Emily

I met with Glenn Lewis with Schnell Contractors. They have started work on Digester No. 3 removing brick where there is a significant crack.

His concern is how far the brick has buckled outward. There is a large section approximately 20 feet wide x nearly full height where most of the anchors that secure the brick to the concrete have completely pulled out of the concrete. This indicates a large amount of force resulting from expansion of the brick.

**Recommendation:**

1. Cornerstone recommends installing a vertical expansion joint full height of the wall at this location. **All or part of this would be considered additional and not included in the base bid.** The contractor's unit (bid) price is \$64 per lineal foot to install a new joint (approximately \$1150 total for 18 feet). Because they have to re-lay the brick anyway at this location and not have to saw cut thru it in order to create the joint gap, we may be able to negotiate a reduced costs for this additional joint. Georgiy is going to contact Schnell's project manager and discuss tomorrow
2. Install 6 vertical rows of anchors (3 each side of the new expansion joint) spaced at approximately 32 inches vertical and horizontal spacing. The base bid calls for the contractor to install 100 helical brick anchors as to be determined by the engineer. **This will use approximately 42 of the 100 base bid allotment of anchors.**

The contractor is NOT being held up waiting for a decision on the expansion joint at this time. Georgiy or I will update you later this week.

John Temple, PE – Senior Structural Engineer  
Cornerstone Engineering, Inc. – 2014 GLI INC. CREDIBLE AWARD WINNER  
O: 502.493.2717, F: 502.491.4824, mobile: 502-645-3114  
2302 Hurstbourne Village Dr, Suite 1000, Louisville, KY 40299  
[www.cei-engineering.com](http://www.cei-engineering.com)

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**TO:** Mayor Linda Gorton  
Urban County Council

**FROM:** *Jerry M. Carey for CHM*  
Charles H. Martin, P.E., Director  
Division of Water Quality

**DATE:** January 15th, 2019

**SUBJECT:** Change Order #1; Town Branch WWTP Digester Complex Improvements

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Request

The Division of Water Quality request approval of Change Order #1 to Judy Construction Company the contractor for the Town Branch WWTP Digester Complex Improvements project.

Purpose of Request

The increase to the contract includes additional costs for the following items:

- Fill the additional silencer pits in the Boiler Building
- Trade a spigot for a non-potable hydrant at the hydrogen sulfide removal vessel
- Change the breakers for the boilers from 120V to 480V per shop drawing review
- Demolish the metering cabinet in the Digester Control Building and shift MCC-J to conserve space
- Change two light fixtures from Class I, Div. 2 fixtures to Class I, Div. 1 fixtures because of their location
- Change the water heater to a 277V model and make associated modifications in MCC-J based on shop drawing review
- Provide a beam lenti for the new opening to the Boiler No. 3 room where an unexpected column was found inside the existing block wall
- Amount over the \$30,000 allowance for ControlTouch to perform SCADA integration
- Provide a full height vertical expansion joint in the brick façade of Digester No. 3 where the brick is buckled outward

Project Cost in FY19 Budget and Future Budget Years

FY19 – Approval of this change order results in an increase of \$ 53,958.58 to the contract. The revised contract amount including this change order will be \$9,800,708.58 representing a 0.55% increase of the original contract amount.

Future Budget Impact – This change order will not have an impact on future budget years.



Are Funds Budgeted

Funds are Budgeted in: 4003 303401 3401 92711 TBWWTPDIGES\_RMP/CONSENT\_DE

Martin

