

JUSTIFICATION FOR CHANGE

PROJECT: Town Branch WWTP Solids Improvements

CONTRACT NO. 66-2015

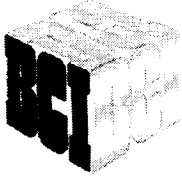
CHANGE ORDER: 1

1. Necessity for change: Back-up data is attached explaining the necessity for each item.
2. Is proposed change an alternate bid? ___ Yes X No
3. Will proposed change alter the physical size of the project? ___ Yes X No
If "Yes", explain.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? X Yes ___ Not Necessary
6. Will this change affect expiration or extent of insurance coverage? ___ Yes X No
If "Yes", will the policies be extended? ___ Yes ___ No
7. Effect on operation and maintenance costs: N/A
8. Effect on contract completion date: No effect to contract completion date.

Mayor_____
Date

Summary Chart for Change Order #1

Project:		Town Branch Solids Improvements Lexington, Kentucky Contract # R 66-2015	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	8/4/2015	Furnish and install curb in containment area The installation of a poured curb around the edge of the exterior walls of the containment area to bridge an expansion joint and some deteriorated wall that was discovered during demolition.	\$1,150.00	X		X		1
2	9/11/2015	Removal of a raised concrete pad in work area Removal of a raised concrete pad not included in original demolition. This will remove a trip hazard and ease equipment access in the future.	\$1,536.00	X				1
4	12/17/2015	Controls integration of the Centrifuges to the SCADA system This will integrate the centrifuge controls into the SCADA system for viewing in the control room for the operators. The graphics will also be changed to show the centrifuges and not the belt filter presses as shown currently. A \$20,000.00 allowance was included in the bid this amount is additional money needed.	\$13,797.00	X				1
5	1/13/2015	Upgrade to the control screen for the polymer system This was an upgrade needed to continue continuity of control panels throughout the plants.	\$6,115.00	X				1
6	1/13/2015	Bulk Polymer Order After confirmation of the centrifuge performance with the recommended polymer a bulk order of 5,000 gallons is necessary to keep the plant with a supply of polymer until a new unit price contract is established through LFUGG standard purchasing procedures.	\$61,505.00	X				1
Page TOTAL			\$84,103.00					



BUILDING CRAFTS, INC.
Contractors | Engineers

PC # 1

2 Rosewood Drive
Wilders, KY 41076

Phone: (859) 781-9500
Fax: (859) 781-9505

www.buildingcrafts.com

Tuesday, August 04, 2015

Tiffany Rank, PE
Municipal Engineer Senior
859-425-2406
tiffanyr@lfugc.com

Re: Town Branch Solids Processing Project Furnish and install curb in containment area proposal

Tiffany,

Building Crafts is pleased to offer you this proposal to pour a curb around the edge of the exterior walls of the containment area 6"x6" the curb will be doweled. This is to bridge an expansion joint and some deteriorated wall that was discovered during demo. This proposal is good for 7 days and if accepted in that time will not affect schedule. The proposal includes all labor material and equipment to perform the work. The cost would be:

Furnish and install curb in containment area \$1,150.00

Best regards,

Dan Breetz PE
Project Manager
Building Crafts, Inc.

Cc: File, Engineer



BUILDING CRAFTS, INC.
Contractors | Engineers

Proposal Summary

Job#: 0618

Date: 8/4/2015

Job Name: Town Branch WWTP Solids Processing Improvements

Work Description: 15.08.04 curb at containment area Estimate

LABOR	Hrs	Rate	Total Cost
Supt.	1	100.00	100.00
Labor	2	47.77	95.54
Welder	0	100.00	-
PM Time	2	150.00	300.00
Carpernter	0	55.00	-
Labor Total			495.54

Equipment	Weeks	Rate	Total Cost
		0.00	-
Field Office	1	150.00	150.00
Backhoe	0	450.00	-
Pickup	0	300.00	-
			-
			-
Equipment Total			150.00

Materials	Qty	Unit	Total Cost
concrete	1	325.00	325.00
	0	0.00	-
		0.00	-
Materials Total			325.00

Subcontractors	Cost	
	-	
Subcontractor Total		-

Total of All Cost Categories **970.54**

Contractor's Markup **145.58**
(15% on L,E & M; 5% on S)

3% Bond 33.98

Total of All Costs with Markup **\$ 1,150**

PL # 2

RFI009 Pad Removal.xlsx

Building Crafts, Inc.



Contractors & Engineers

**LFUGC Town Branch Solids
Improvements**

R.F.I.

Request for Clarification

To:	Company:	Phone Number:	Fax Number:
Mark Stephens	HDR		
From:	Company:	Phone Number:	Fax Number:
Dan Breetz	BCI	859-781-9500	859-781-9505
CC:	Company:	Phone Number:	Fax Number:
RFI No:	Spec. Section:	Drawing No:	Date:
9	0	D-2	09/11/15
Related Items:			

INFORMATION REQUESTED:

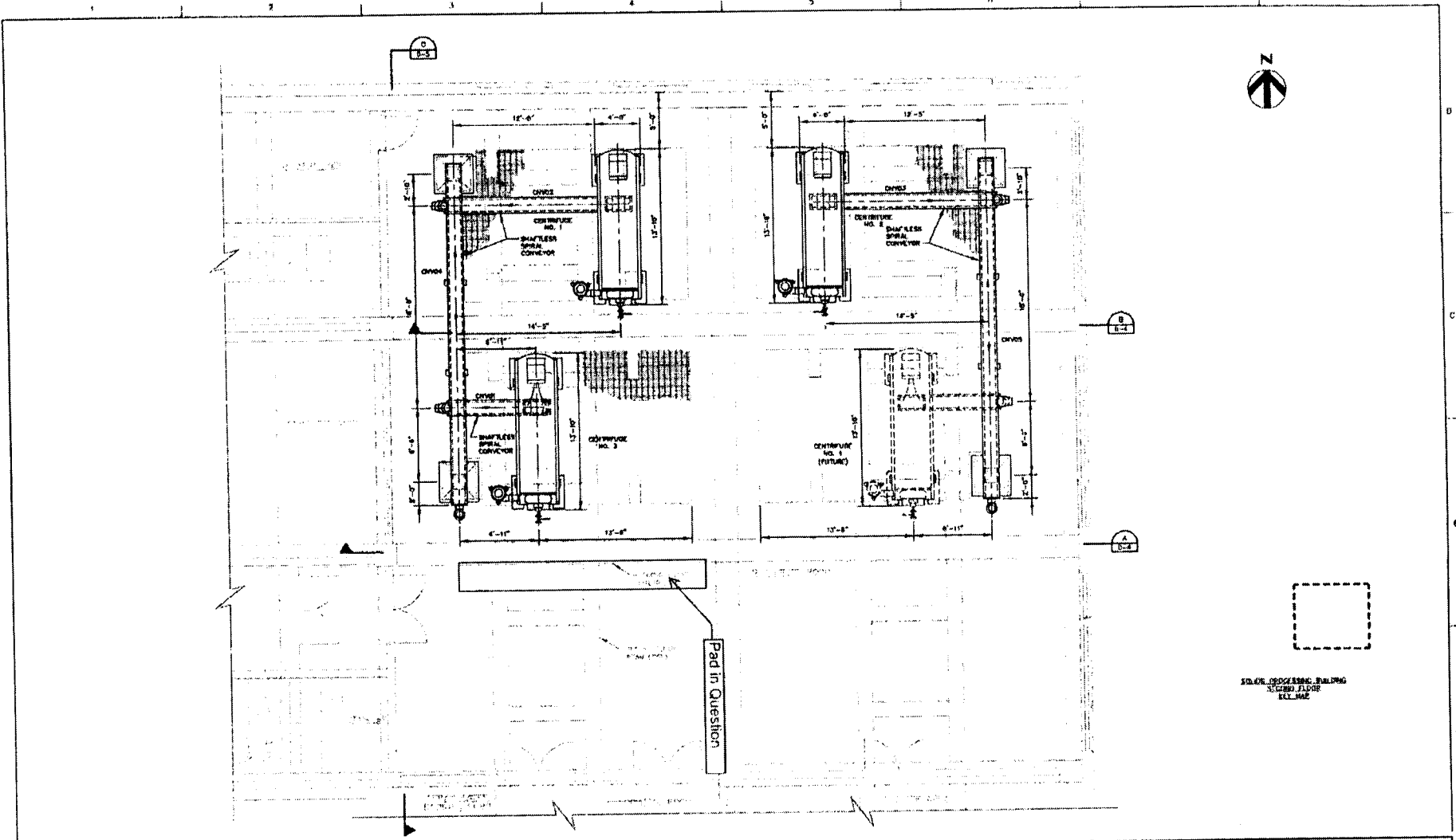
BCI proposes removal of concrete pad shown on attached. We see it as a tripping hazard. Removal will ease future access to centrifuges. BCI proposes to remove slab for \$1,536.00. We would like to remove the slab before we move the centrifuge into place next week. Thank you.

RESPONSE:	
BY:	DATE:

P.O. BOX 286
Highland Heights, Ky 41076

2 Rosewood Drive
Wilder, Ky 41076

Phone # (859) 781-9500
Fax # (859) 781-9505



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER / JPM
 DESIGNED BY / JPM
 CHECKED BY / JPM
 DATE / JANUARY 2013
 PROJECT NUMBER / 121179



**TOWN BRANCH WWTP
 SOLIDS PROCESSING
 IMPROVEMENTS**

**CENTRIFUGE
 LAYOUT PLAN**

	DRAWING NO. / 0-01 SCALE / 1/4" = 1'-0"	SHEET NO. / D-2
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BUILDING CRAFTS, INC.
Contractors | Engineers

Proposal Summary

Job#: 0618

Date: 1/13/2016

Job Name: Town Branch WWTP Solids Processing Improvements

Work Description: 16.01.13 Slab Estimate

LABOR	Hrs	Rate	Total Cost
Supt.	2	100.00	200.00
Labor	16	47.77	764.32
Welder	0	100.00	-
PM Time	0	150.00	-
Carpenter	0	55.00	-
Labor Total			964.32

Equipment	Weeks	Rate	Total Cost
		0.00	-
Field Office	0	150.00	-
Backhoe	0	450.00	-
Pickup	0	300.00	-
Misc	1	332.00	332.00
			-
Equipment Total			332.00

Materials	Qty	Unit	Total Cost
	0	0.00	-
	0	0.00	-
		0.00	-
Materials Total			-

Subcontractors	Cost	
	-	
Subcontractor Total		-

Total of All Cost Categories **1,296.32**

Contractor's Markup **194.45**
(15% on L, E & M; 5% on S)

3% Bond **45.22**

Total of All Costs with Markup **\$ 1,536**



ControlTouch
SYSTEMS, INC.

December 17th, 2015

Mr. Dan Breetz PE
Project Manager
Building Crafts, Inc.
P: 859.781.9500
M: 859.240.9593
dbreetz@buildingcrafts.com
www.buildingcrafts.com

Subject: Quotation and Scope for SCADA Addition for Solids Improvement Project at Town Branch WWTP
ControlTouch Proposal Number: P15190

Dear Mr. Breetz;

This letter is in response to your request to provide a project scope and quotation to modify and integrate the new solids improvement equipment into the existing Town Branch plant wide SCADA system. These additions are part of the Solid Improvement Project currently underway at the Town Branch WWTP in Lexington, Kentucky.

The proposed scope of work provided by ControlTouch Systems involves modifying the existing SCADA system to incorporate the new centrifuge and polymer systems. ControlTouch shall provide an Allen-Bradley 1783-MX08T eight port Stratix Ethernet module to be added to the DCU-F Stratix switch. This will provide eight additional ports for the centrifuge and polymer PLC equipment to interface to the SCADA system. All Ethernet cabling and termination shall be provided by others. The SCADA electrical drawing shall be updated by ControlTouch to reflect this addition.

ControlTouch shall select input points within the PLC-F system for the polymer tank level sensor and leak detect sensor to be wired by TEM. All wiring and terminations to be provided by others. The existing SCADA electrical drawings shall be updated to reflect all removed equipment and to included equipment added to DCU-F/PLC-F. As agreed to during the controls meeting on December 7th, 2015, all operational control of the centrifuges, polymer pumps and screw conveyors shall be handled outside of the SCADA PLC and is not part of this proposal. The goal is to have the centrifuge system not require the SCADA system to run.

The SCADA screens and operator interface shall be modified to incorporate the new centrifuge system. ControlTouch will remove the old belt filter press equipment, screens and faults, as well as its associated polymer system from the SCADA system. The new centrifuges and polymer systems shall be monitored via the Ethernet connections to their associated PLC's. The screw conveyors shall be monitored via hardwired connections to the MCC's. The new screens shall be

Control System Integration and Automation Solutions

3101 Breckenridge Lane - Louisville, KY 40220
(502) 452-9397 - (800) 928-7287 - Fax (502) 452-9373

3-D graphics that will fit seamlessly into the existing SCADA system. The SCADA centrifuge screen will show the needed status and control information that is displayed locally on each centrifuge main control panel. The polymer pump status, recirculation pump and tank level shall be displayed on their corresponding graphic screens. All system alarms and faults shall be added to the existing SCADA alarming system. Two trends per centrifuge has also been included.

ControlTouch has included field integration of the SCADA modification as well as debug and testing to ensure proper operation and monitoring of the SCADA system. ControlTouch has not included any programming, startup, debug or troubleshooting of the centrifuge, polymer or conveyor systems. This work shall be provided and performed by the equipment suppliers or others. ControlTouch has also included four trips to site for meetings and project review.

All field equipment, field wiring and field mounting are provided by others. Due to the rising cost of labor and materials, we reserve the right to adjust this proposal if not accepted within thirty (30) days from the above date.

PRICING:

TB Solids Improvement SCADA Integration	Price
Hardware – Stratix 8-Port Ethernet Switch	\$ 1,215
Project Management and General Conditions	3,760
Drawing and Documentation Labor	1,850
SCADA Screen Development Labor	6,250
Modification and Integration of Tags, Alarms and Trends	7,500
Field Startup and Debug Labor	7,875
Field Travel Time and Expenses	2,800
Total for TB Solids Improvement SCADA Integration	\$ 31,250

Note: The above pricing does not include any sales tax, performance bond, permits, or special insurance requirements. If these items are required, they will be borne by the purchaser.

I hope this quotation meets your requirements and answers any questions you may have. If you need further clarification on any aspects of our proposed design or how the pricing was derived please feel free to contact us.

Thank you for the opportunity to quote this project.

Sincerely,

Michael Harris
Vice President of Operations

Control System Integration and Automation Solutions

3101 Breckenridge Lane - Louisville, KY 40220
(502) 452-9397 - (800) 928-7287 - Fax (502) 452-9373



BUILDING CRAFTS, INC.
Contractors | Engineers

Proposal Summary

Job#: 0618

Date: 1/13/2016

Job Name: Town Branch WWTP Solids Processing Improvements

Work Description: 15.12.24 Control Touch

LABOR	Hrs	Rate	Total Cost
Supt.	0	100.00	-
Labor	0	47.77	-
Welder	0	100.00	-
PM Time	0	150.00	-
Carpenter	0	55.00	-
Labor Total			-

Equipment	Weeks	Rate	Total Cost
		0.00	-
Field Office	0	150.00	-
Backhoe	0	450.00	-
Pickup	0	300.00	-
			-
			-
Equipment Total			-

Materials	Qty	Unit	Total Cost
	0	0.00	-
	0	0.00	-
		0.00	-
Materials Total			-

Subcontractors	Cost
Control Touch Per attached scope	31,250.00
Subcontractor Total	31,250.00

Total of All Cost Categories 31,250.00

Contractor's Markup 1,562.50
(15% on L,E & M; 5% on S)

3% Bond Allowance 984.88
\$ (20,000.00)

Total of All Costs with Markup \$ 13,797

PC # 5



BUILDING CRAFTS, INC.
Contractors | Engineers

2 Rosewood Drive
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Wednesday, January 13, 2016
Tiffany Rank, PE
Municipal Engineer Senior
859-425-2406
tiffanyr@lfugc.com

Re: Town Branch Solids Processing Project Panelview upgrade proposal

Tiffany,

This proposal is to upgrade the three polymer pumps to panel view displays. I have omitted mark-up and bond as we had already agreed on this price.

The cost would be: \$6,115.00

Best regards,

Dan Breetz PE
Project Manager
Building Crafts, Inc.

Cc: File, Engineer



BUILDING CRAFTS, INC.
Contractors | Engineers

Proposal Summary

Job#: 0618

Date: 1/13/2016

Job Name: Town Branch WWTP Solids Processing Improvements

Work Description: 16.01.13 add panelview

LABOR	Hrs	Rate	Total Cost
Supt.	0	100.00	-
Labor	0	47.77	-
Welder	0	100.00	-
PM Time	0	150.00	-
Carpenter	0	55.00	-
Labor Total			-

Equipment	Weeks	Rate	Total Cost
		0.00	-
Field Office	0	0.00	-
Backhoe	0	0.00	-
Pickup	0	0.00	-
Misc	0	0.00	-
Equipment Total			-

Materials	Qty	Unit	Total Cost
Upgrade Screen	1	6,115.00	6,115.00
	0	0.00	-
		0.00	-
Materials Total			6,115.00

Subcontractors	Cost	
	-	
Subcontractor Total		-

Previously Committed to cost **Total of All Cost Categories** 6,115.00

~~Contractor's Markup (15% on L,E & M; 5% on S) 917.25~~

~~3% Bond 211.47~~

Total of All Costs with Markup \$ 7,244

PC # 6



2 Rosewood Drive
Wilders, KY 41076

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Wednesday, January 13, 2016

Tiffany Rank, PE
Municipal Engineer Senior
859-425-2406
tiffanyr@lfugc.com

Re: Town Branch Solids Processing Project Bulk Polymer proposal-Revise w/tax

Tiffany,

Building Crafts is pleased to offer you this proposal to provide 5,000 gallons (43,350 pounds) of FBS C1286 Polymer. Delivery coordination and unloading is by LFUGC. This proposal is good for 2 weeks.

The cost would be:

5,000 gallons (43,350 pounds) of FBS C1286 Polymer-\$61,505.00

Best regards,

Dan Breetz PE
Project Manager
Building Crafts, Inc.

Cc: File



BUILDING CRAFTS, INC.
Contractors | Engineers

Proposal Summary

Job#: 0618

Date: 1/13/2016

Job Name: Town Branch WWTP Solids Processing Improvements

Work Description: 15.12.30 Bulk Polymer Estimate-With Tax

LABOR			
	Hrs	Rate	Total Cost
Supt	0	100.00	-
Labor	2	47.77	-
Welder	0	100.00	-
PM Time	0	150.00	-
Carpenter	0	55.00	-
Labor Total			-

Equipment			
	Weeks	Rate	Total Cost
		0.00	-
Field Office	0	150.00	-
Backhoe	0	450.00	-
Pickup	0	300.00	-
			-
			-
Equipment Total			-

Materials			
	Qty	Unit	Total Cost
Polyler (lbs)w/tax	43350	1.13	51,924.63
	0	0.00	-
		0.00	-
Materials Total			51,924.63

Subcontractors		Cost
		-
		-
		-
Subcontractor Total		-

Total of All Cost Categories **51,924.63**

Contractor's Markup **7,788.69**
(15% on L,E & M; 5% on S)

3% Bond 1,791.90

Total of All Costs with Markup **\$ 61,505**

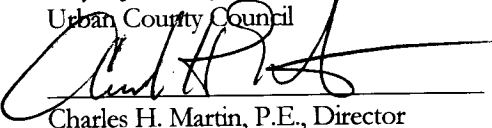


Lexington-Fayette Urban County Government
DEPARTMENT OF ENVIRONMENTAL QUALITY AND PUBLIC WORKS

Jim Gray
Mayor

Dowell Hoskins-Squier, P.E.
Acting Commissioner

TO: Mayor Jim Gray
Urban County Council

FROM: 
Charles H. Martin, P.E., Director
Division of Water Quality

CC: Tiffany Rank, P.E., Division of Water Quality

DATE: January 13, 2016

SUBJECT: Change Oder #1; Town Branch WWTP Solids Improvements

Request

The Division of Water Quality request approval of Change order #1, to Building Crafts Inc.; the contractor for the Town Branch WWTP Solids Improvements project.

Purpose of Request

The increase to the contract includes concrete work, additional demolition, integration of controls, and a bulk polymer order. The most costly increase (the bulk polymer order) was necessary to operate the centrifuges efficiently until a unit price contract for the liquid polymer is established through LFUCG standard purchasing procedures.

Project Cost in FY16 Budget and Future Budget Years

FY16 – Approval of this change order results in an increase of \$ 84,103.00 to the contract. The revised contract amount including this change order will be \$1,983,646.00 representing a 4.43 % 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: 4002 303402 0001 91017

Martin/Hoskins-Squier