

**PROJECT:** 2021 CIP - Highlands Ranch High School

**CONTRACTOR:** Golden Triangle Construction

**DATE:** March 25, 2021

**CHANGE ORDER #:** 4

This contract shall be changed as follows:

**CHANGES:**

- |   |              |
|---|--------------|
| 1. PCR #03R1 - Mechanical System Clarifications | \$242,598.00 |
| 2. PCR#05 - Electrical Switchgear Revisions     | \$2,143.00   |
| 3.  | \$0.00       |
| 4.  | \$0.00       |
| 5.  | \$0.00       |

**TOTAL CHANGE ORDER: \$244,741.00**

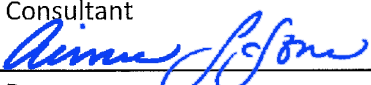
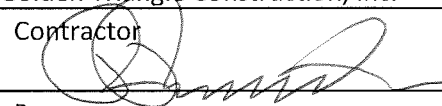
*By signing below the contractor acknowledges acceptance of this change order as full compensation to the contractor for all costs related in any way to this work and its effect on other work already contracted for.*

**CONTRACT STATUS:**

Original Contract Sum	\$6,209,844.00
Previous Change Orders	\$24,938.00
Current Contract	\$6,234,782.00
This Change Order	\$244,741.00
<b>NEW CONTRACT TOTAL</b>	<b>\$6,479,523.00</b>

The Contract time will be extended by 0 calendar days. Therefore, the date of Final Completion as of the date of this Change Order is September 30, 2021

**NOT VALID until signed by the Contractor, Architect, and Owner, and approved by the School District's Board of Education (if applicable).**

<u>Wold Architects and Engineers</u>	<u>Golden Triangle Construction, Inc.</u>	<u>Douglas County School District</u>
Consultant	Contractor	
		
By	By	By
<u>3/31/2021</u>	<u>3/25/2021</u>	
Date	Date	Date



# Proposed Change Request

Project: Highlands Ranch HS Renovation

To: NV5

PCR No.: 03 R1

Attn: Wes Breeden

Date: March 16, 2021

2420 W. 26<sup>th</sup> Ave., Suite D-360

GTC Project No.: 1732

Denver, CO 80211

### Description of Change:

Response to Request for Information No. 03, dated 2/9/21 and No. 03R1, dated 2/15/21

**Add:** \$242,598

-Includes new boiler and water heater flues and piping, revised unit coil piping and mesh over duct returns.

- Based on Braconier field observation report dated 2.26.21, comments provided by Cator Ruma dated 3.4.2021, and DCSD comments dated 3.10.21

### Assumptions:

- As noted in Braconier Mechanical quote dated 3/15/21.

### Scope and PCR excludes:

- Any additional ceiling removal/re-install and penetrations through fire walls are TBD. This scope is an unknown at this time.

### Contract Time Extension:

Request for Extension: TBD Days

(To be reviewed at a later date, GTC has not fully evaluated manpower availability at this time.)

Additional Labor Required: 0 Man Hours

### CONTRACTOR'S CERTIFICATE:

This is to certify that, to the best of our knowledge and belief, the cost request submitted in response to this scope revision is accurate and complete.

Signed: Dirk Samuelson Date: 3/16/2021  
Dirk Samuelson, Senior Project Manager  
GTC, Inc.

### OWNER'S CERTIFICATE

This is to certify that the owner has reviewed the proposal and authorizes GTC, Inc. to proceed with this scope revision.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
Wes Breeden, Project Manager  
NV5

Project: **Highlands Ranch HS Renovation**

Item : **Response to Request for Information No. 03, dated 2/9/21 and No. 03R1, dated 2/15/21**

PCR No.: **03 R1**

Date: **March 16, 2021**



Description	Qty	Unit	Unit Cost	Labor Cost	Unit Cost	Material Cost	Unit Cost	Subcontract Cost	Total Costs
<b>GTC Work to Perform</b>			0.00 >	0	0.00 >	0	0.00 >	0	0
Layout & Coordination	8	mhr	34.25 >	274	0.00 >	0	0.00 >	0	274
	0		0.00 >	0	0.00 >	0	0.00 >	0	0
<b>Subs &amp; Suppliers</b>	0		0.00 >	0	0.00 >	0	0.00 >	0	0
<b>Braconier Mechanical</b>	0		0.00 >	0	0.00 >	0	0.00 >	0	0
-RTU #01 Revisions	1	ls	0.00 >	0	0.00 >	0	22,362.00 >	22,362	22,362
-RTU #02 Revisions	1	ls	0.00 >	0	0.00 >	0	14,141.00 >	14,141	14,141
-RTU #03 Revisions	1	ls	0.00 >	0	0.00 >	0	14,141.00 >	14,141	14,141
-RTU #04 Revisions	1	ls	0.00 >	0	0.00 >	0	22,362.00 >	22,362	22,362
-RTU #05 Revisions	1	ls	0.00 >	0	0.00 >	0	42,015.00 >	42,015	42,015
-RTU #06 Revisions	1	ls	0.00 >	0	0.00 >	0	14,141.00 >	14,141	14,141
-RTU #07 Revisions	1	ls	0.00 >	0	0.00 >	0	42,015.00 >	42,015	42,015
-RTU #08 Revisions	1	ls	0.00 >	0	0.00 >	0	42,015.00 >	42,015	42,015
-Sheet Metal Revisions	1	ls	0.00 >	0	0.00 >	0	16,500.00 >	16,500	16,500
	0		0.00 >	0	0.00 >	0	0.00 >	0	0
<b>General Conditions</b>	0		0.00 >	0	0.00 >	0	0.00 >	0	0
Project Engineer	0	mhr	0.00 >	0	0.00 >	0	0.00 >	0	0
Working Foreman: 50% Productive	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Job Trailer	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Superintendent Trucking	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Reproduction Cost	0	ls	0.00 >	0	0.00 >	0	0.00 >	0	0
Dumpster/Rubbish Removal	0	ld	0.00 >	0	350.00 >	0	0.00 >	0	0
<b>Subtotal</b>				274		0		229,692	229,966
Fringe Benefits	15.00%			41					41
Insurance & Payroll Taxes	37.25%			102					102
Sales Taxes	0.00%					0			0
Small Tools	2.00%					5			5
<b>Subtotal</b>				417		5		229,692	230,115
Building Permit - <b>BY OWNER</b>	0.00%							0	0
City & County Use Taxes - <b>BY OWNER</b>	0.00%							0	0
Builders Risk Insurance	0.14%							322	322
General Insurance	0.90%							2,071	2,071
<b>Subtotal</b>				417		5		232,085	232,508
Performance & Payment Warranty Bond	0.84%							1,953	1,953
Overhead & Fee	3.50%							8,138	8,138
<b>Total</b>				417		5		242,176	242,598

March 1, 2021

GTC  
9777 Pyramid Court, Suite 105  
Englewood, CO 80112

Attn: Dirk Samuelson

Re: DCSD HRHS

Subj: RFI#3 Existing heating water piping observation report

Dirk,

On Friday, 2/26/2021, representatives from Wold, Cator Ruma, GTC and Braconier met on site to investigate the existing heating water piping system as it pertains to the RTU's and boilers. The purpose of the meeting was to confirm existing conditions and determine if existing valves and specialties are present and can be reused in an effort to reduce costs to the project. RFI#3 adds new valves, and specialties to the RTU's and boilers.

Specifically, RFI#3 adds the following new valves/specialties to the scope of the project:

- Isolation valves
- Strainers
- Balancing valves
- Temperature control valves
- Drain valves
- Air vents
- Test ports

The following is a summary of the observations made:

Boilers 1 and 2:

- Existing piping has manual isolation valves on the supply and return at each boiler.
- No balance valves exist.
- No strainers exist (there are strainers at the heating water pumps in the room).

RTU's 1 through 8 general observations:

- Strainers do not exist.
- Temperature control valve is a 3 way valve.
- Temperature control valve is located inside RTU cabinet on roof.
- Existing isolation and balance valves that we could see appear to not be leaking. We could not test to see if they completely close and hold back water.

Specific RTU observations:

RTU-1, 2, 3, 8: Could not see isolation or balance valves in ceiling. Presumed to be inside RTU cabinet along with TC valve on roof.

RTU-4, 5, 7: No additional observations.

RTU-6: No balance valve.

Awaiting response from DCSD

Based on the observations, we request the owner and design team decide on the following:

1. Some existing RTU TC valves are 3 way valves. Setpoint has included new 3 way valves in their scope. Piping details show 2 way valves. Please confirm if new 2 or 3 way valves are to be used. **CRA - suggest matching existing control valve, District to confirm.**
2. Please confirm where temperature control valves should be located (inside RTU cabinet on roof or in ceiling space below). **CRA - based on conversation with vendor this can be done, but can be tight depending on valve size, not recommended for units with two coils.**
3. Confirm if new strainers at RTU's are desired. **CRA - District to confirm.** New strainers not required at RTUs
4. For dual coils (RTU-1, 4, 5, 7 and 8), confirm if additional isolation and balance valves are desired at each coil in addition to main isolation and balance valve. **CRA - District to confirm. CRA recommends each coil has a balance valve at a minimum, coil isolation valves not necessary.** CRA recommendation acceptable with DCSD
5. Confirm if new drain valves, air vents and test ports are desired at coils. **CRA - Recommend air vents and test ports at coils, District to confirm.** CRA recommendation acceptable with DCSD
6. Confirm if new isolation and balance valves are desired to replace existing. **CRA - did not see any visible signs of water leakage, no issues with re-using valves. District to confirm.** Confirmed, reuse existing valves
7. For the boilers, confirm that minimal piping will be replaced to just install new boilers. Existing isolation valves will be reused and no other specialties will be added. **CRA - Confirmed.**

Once these questions are confirmed, it would be helpful if new coil piping details could be issued.

Please provide a response at your earliest convenience.

Sincerely,



Paul Dense, P. E.  
Vice President of Preconstruction

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-1

This document adds the following scope of work for us:

1. Additional pipe, valves and fittings added to RTU's with two coil connections.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 22,362**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,



Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-1

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 5,291	97
Material Handling		5
Non-Working Direct Supervision		10
Rental Equipment (scissor lift)	\$ 1,149	
Hoisting		
Project Management		5

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ 6,440	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>	<b>\$ 6,440</b>	

<b>LABOR</b>	Labor Manhours:	117	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>	<b>\$ 12,000</b>	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 18,441	
Braconier Self-Performed Overhead & Profit:	\$ 2,766	
<b>Braconier Self-Performed Total:</b>	<b>\$</b>	<b>21,207</b>

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
<b>3rd Tier Subcontractor Cost Total:</b>	<b>\$</b>	<b>918</b>

Payment & Performance Bond:	\$ 237	
Textura Usage Fee:	\$ -	

<b>COST PROPOSAL:</b>	<b>\$</b>	<b>22,362</b>
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<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU dual coil hot water coil piping detail adds from original drawings small	1	4567	\$ 4,567	89	89
RTU dual coil valve pack small	1	724	\$ 724	8	8
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 5,291		97



**Braconier Plumbing & Heating Co., Inc.**

**Project Name: DCSD HRHS**

**Bid ID: 5714-A5**

**Report Time: 3/11/2021 6:58 PM**

**Profile Name: Standard**

**Labor Book: Braconier MCA**

**Scoped By: Base Bid; System: ALL; Breakout: 2in Dbl Coil;**

# Braconier Plumbing & Heating Co., Inc.

## Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 6:58 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Dbl Coil;

### Pipe

#### Copper - Type L - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Hard Tube								
	1/2	0	2.29	1	0.09	0	0	0.70
	3/4	1	3.73	5	0.09	0	0	5.17
	1-1/2	0	9.42	4	0.12	0	0	4.09
	2	50	14.94	747	0.14	7	0	747.05

#### Copper - Type L - 95/5 Totals:

<u>52</u>	<u>757</u>	<u>7</u>	<u>0</u>	<u>757</u>
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#### Pipe Totals:

<u>52</u>	<u>757</u>	<u>7</u>	<u>0</u>	<u>757</u>
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### Nipples

#### Carbon Steel - Threaded, Black Std - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Steel Nipple								
	2	3	11.51	35	0.09	0	0	34.52

#### Carbon Steel - Threaded, Black Std - Thread Totals:

<u>3</u>	<u>35</u>	<u>0</u>	<u>0</u>	<u>35</u>
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#### Nipples Totals:

<u>3</u>	<u>35</u>	<u>0</u>	<u>0</u>	<u>35</u>
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### Fittings

#### Brass - Threaded Brass - 125 Lb - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Plug								
	3/4	3	7.84	24	0.08	0	0	23.51

#### Brass - Threaded Brass - 125 Lb - Thread Totals:

<u>3</u>	<u>24</u>	<u>0</u>	<u>0</u>	<u>24</u>
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#### Copper - Pressure - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
90 Deg Elbow								
	3/4	2	4.39	9	0.80	2	0	8.78
	2	8	45.36	363	1.29	10	0	362.86
Coupling								
	2	10	22.80	228	1.27	13	0	227.99
Male Adapter								
	2	20	50.04	1,001	0.68	14	0	1,000.74
Reducer								
	2x3/4	4	37.92	152	1.13	5	0	151.69
Tee								
	2	2	80.07	160	1.89	4	0	160.13

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

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Bid ID: 5714-A5

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Base Bid; System: ALL; Breakout: 2in Dbl Coil;

#### Fittings

##### Copper - Pressure - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Tee-Reducing								
	2x2x1/2	2	60.45	121	1.42	3	0	120.90
	2x2x3/4	2	60.45	121	1.50	3	0	120.90
Union								
	2	6	193.87	1,163	1.97	12	0	1,163.21

##### Copper - Pressure - 95/5 Totals:

		<u>56</u>		<u>3,317</u>		<u>64</u>	<u>0</u>	<u>3,317</u>
<b>Fittings Totals:</b>		<u>59</u>		<u>3,341</u>		<u>64</u>	<u>0</u>	<u>3,341</u>

#### Valves

##### Bronze - Soldered Ball WOG - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
150# Apol 77-200								
	1/2	2	22.62	45	0.62	1	0	45.25
600# Mil BA150-H								
	3/4	1	115.18	115	0.83	1	0	115.18

##### Bronze - Soldered Ball WOG - 95/5 Totals:

		<u>3</u>		<u>160</u>		<u>2</u>	<u>0</u>	<u>160</u>
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##### Bronze - Threaded 3-Way Control - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
150# Supplied by TC								
	2	1	0.00	0	4.75	5	0	0.00

##### Bronze - Threaded 3-Way Control - Thread Totals:

		<u>1</u>		<u>0</u>		<u>5</u>	<u>0</u>	<u>0</u>
<b>Valves Totals:</b>		<u>4</u>		<u>160</u>		<u>7</u>	<u>0</u>	<u>160</u>

#### Hanger Components

##### - C Clamps -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 86 C-Clamp Gal								
	3/8	3	3.72	11	0.00	0	0	11.17
Fig 89 Ret Clip								
	3/8	3	1.76	5	0.00	0	0	5.27

##### - C Clamps - Totals:

		<u>6</u>		<u>16</u>		<u>0</u>	<u>0</u>	<u>16</u>
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##### - Clevis -

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 6:58 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Dbl Coil;

#### Hanger Components

##### - Clevis -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 260 Clevis Gal								
	3	3	4.12	12	0.00	0	0	12.35
<b>- Clevis - Totals:</b>		<u>3</u>	<u>12</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>12</u>

##### - Saddles & Shields -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 167 Insl Shield								
	3	3	5.59	17	0.35	1	0	16.78
CalSil 180 1" CT*								
	3/4	3	4.16	12	0.00	0	0	12.48
<b>- Saddles &amp; Shields - Totals:</b>		<u>6</u>	<u>29</u>		<u>1</u>	<u>0</u>	<u>0</u>	<u>29</u>

##### Galvanized - Rods -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Allthread - Galv								
	3/8	12	0.47	6	0.00	0	0	5.61
<b>Galvanized - Rods - Totals:</b>		<u>12</u>	<u>6</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>6</u>
<b>Hanger Components Totals:</b>		<u>27</u>	<u>64</u>		<u>1</u>	<u>0</u>	<u>0</u>	<u>64</u>

#### Labor

##### Hangers

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Clevis Hanger(HgrItem IBm&Tr HgRodBC)								
	3	3	0.00	0	1.49	4	0	0.00
<b>Hangers Totals:</b>		<u>3</u>	<u>0</u>		<u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>

##### Joints

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
95/5 Solder(Joints CU 95/5)								
	1/2	4	0.00	0	0.00	0	0	0.00
	3/4	8	0.00	0	0.00	0	0	0.00
	2	31	0.00	0	0.00	0	0	0.00
Threaded(Joints CU CuThrd)								
	2	1	0.00	0	0.00	0	0	0.00

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

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Bid ID: 5714-A5

Report Time: 3/11/2021 6:58 PM

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Base Bid; System: ALL; Breakout: 2in Dbl Coil;

#### Labor

##### Joints

##### Joints Totals:

	<u>44</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Labor Totals:</b>	<u>47</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>0</u>

#### HVAC Specialities

##### - Press Ggs & Thermom -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Pete's Plugs								
	Pete's Plug	2	7.80	16	0.41	1	0	15.60
	Therm Dir Rdg							
	9" w/ Well - 9VU35,	2	78.00	156	2.25	5	0	156.00
	1							

##### - Press Ggs & Thermom - Totals:

	<u>4</u>	<u>172</u>	<u>5</u>	<u>0</u>	<u>172</u>
<b>HVAC Specialities Totals:</b>	<u>4</u>	<u>172</u>	<u>5</u>	<u>0</u>	<u>172</u>

#### Misc. Consumables

##### - Copper Joints Emory Cloth -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Emory Cloth								
	Emory Cloth	1	0.26	0	0.00	0	0	0.27

##### - Copper Joints Emory Cloth - Totals:

	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
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##### - Copper Joints Flux -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Flux								
	Sta-Brite Flux	1	6.50	6	0.00	0	0	5.77

##### - Copper Joints Flux - Totals:

	<u>1</u>	<u>6</u>	<u>0</u>	<u>0</u>	<u>6</u>
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##### - Copper Joints Solder -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Solder								
	95/5	1	6.18	5	0.00	0	0	5.48

##### - Copper Joints Solder - Totals:

	<u>1</u>	<u>5</u>	<u>0</u>	<u>0</u>	<u>5</u>
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##### - CS Joints Joint Tape -

## Braconier Plumbing & Heating Co., Inc.

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Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Dbl Coil;

#### Misc. Consumables

##### - CS Joints Joint Tape -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Joint Tape								
	Joint Tape - Teflon	1	3.06	2	0.00	0	0	1.60
<b>- CS Joints Joint Tape - Totals:</b>		<u>1</u>		<u>2</u>		<u>0</u>	<u>0</u>	<u>2</u>

##### - Gases -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Gases								
	Propane	60	0.33	19	0.00	0	0	19.38
<b>- Gases - Totals:</b>		<u>60</u>		<u>19</u>		<u>0</u>	<u>0</u>	<u>19</u>

<b>Misc. Consumables Totals:</b>	<u>63</u>		<u>32</u>		<u>0</u>	<u>0</u>	<u>32</u>
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#### Misc. Steel Items

##### - Bolts,Nuts&Washers -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Nuts - Galvanized								
	3/8	12	0.20	2	0.00	0	0	2.46
Washers- Galvanized								
	3/8	9	0.38	3	0.00	0	0	3.44
<b>- Bolts,Nuts&amp;Washers - Totals:</b>		<u>21</u>		<u>6</u>		<u>0</u>	<u>0</u>	<u>6</u>

<b>Misc. Steel Items Totals:</b>	<u>21</u>		<u>6</u>		<u>0</u>	<u>0</u>	<u>6</u>
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#### Pipe Cut

##### Copper - Pipe Cut with Cutters - Cutters

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
PIPE CUT								
	3/4	1	0.27	0	0.00	0	0	0.27
	2	1	0.59	1	0.00	0	0	0.59
<b>Copper - Pipe Cut with Cutters - Cutters Totals:</b>		<u>2</u>		<u>1</u>		<u>0</u>	<u>0</u>	<u>1</u>

<b>Pipe Cut Totals:</b>	<u>2</u>		<u>1</u>		<u>0</u>	<u>0</u>	<u>1</u>
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# Braconier Plumbing & Heating Co., Inc.

## Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 6 of 6

Bid ID: 5714-A5

Report Time: 3/11/2021 6:58 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Dbl Coil;

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	<u>Material Cost</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
<b>Grand Totals</b>	<b>\$4,567</b>	<b>89</b>	<b>\$0</b>	<b>\$4,567</b>

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\* Items flagged with an asterisk may have their price and labor overwritten in Excel's Rapid Reports

**LONG BUILDING TECHNOLOGIES, INC.**  
**5001 S. ZUNI STREET**  
**LITTLETON, CO 80120**

**Ship To:**

Braconier  
 4925 Nome Street  
 Attn to: Paul Dense/  
 Denver, CO 80239

**Quote No.:** 42300  
**Quote Date:** 03/10/21  
**PO No:**  
**Project:** DCSD HRHS Coil Packs

**Prepared By:** Chris Zitur 720-985-8688  
**Page No.:** 1 of 1

We are pleased to offer the following quotation for your consideration:

Item	Qty	Description	Unit Price	Extended Price
QS3PP0YT	1	105.2CV, QUICKSET, 2"SWT, TP 1-1/2"MNPT	181.00	181.00
IB3CP0YY	1	ISOLATOR B, CPTA&DV, 2"SWT, TP 2"SWT	131.00	131.00
IU3B0YQ	1	ISOLATOR UNION, CPTA, 2"SWT, TP 1-1/2"FNPT	64.00	64.00
3QFMY	1	135CV, 2.5" FLANGE END, QUICKSET	402.00	402.00
<b>Commercial Terms:</b>				
<b>FOB Point</b> : Factory			<b>Product Total:</b>	\$778.00
<b>Payment Terms</b> : NET 30				
<b>Weight</b> : 41.9			<b>Grand Total:</b>	\$778.00
<b>Ship Via</b> : BESTWAY				
<b>Standard Terms and Conditions</b>				





DESIGN BUILD  
MECHANICAL CONSTRUCTION  
FABRICATION  
SERVICE & MAINTENANCE

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-2

This document adds the following scope of work for us:

1. Valves and specialties added to heating water piping at RTU.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 14,141**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,

Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 3,370	59
Material Handling		3
Non-Working Direct Supervision		6
Rental Equipment (scissor lift)	\$ 699	
Hoisting		
Project Management		3

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ 4,069	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>		<b>\$ 4,069</b>

<b>LABOR</b>	Labor Manhours:	71	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>		<b>\$ 7,299</b>

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 11,368	
Braconier Self-Performed Overhead & Profit:	\$ 1,705	
<b>Braconier Self-Performed Total:</b>		<b>\$ 13,073</b>

**3rd Tier Subcontractors:**

HVAC Sheetmetal	
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
<b>3rd Tier Subcontractor Cost Total:</b>		<b>\$ 918</b>

Payment & Performance Bond:	\$ 150
Textura Usage Fee:	\$ -

**COST PROPOSAL:** **\$ 14,141**

<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU single coil hot water coil piping detail adds from original drawings	1	3008	\$ 3,008	55	55
RTU single coil valve pack	1	362	\$ 362	4	4
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 3,370		59

**Braconier Plumbing & Heating Co., Inc.**

**Project Name: DCSD HRHS**

**Bid ID: 5714-A5**

**Report Time: 3/11/2021 7:04 PM**

**Profile Name: Standard**

**Labor Book: Braconier MCA**

**Scoped By: Base Bid; System: ALL; Breakout: 2in Sngl Coil;**

# Braconier Plumbing & Heating Co., Inc.

## Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 1 of 5

Bid ID: 5714-A5

Report Time: 3/11/2021 7:04 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Sngl Coil;

### Pipe

#### Copper - Type L - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Hard Tube								
	1/2	0	2.29	0	0.09	0	0	0.43
	3/4	1	3.73	4	0.09	0	0	3.86
	2	20	14.94	299	0.13	3	0	298.82

#### Copper - Type L - 95/5 Totals:

<b>21</b>	<b>303</b>	<b>3</b>	<b>0</b>	<b>303</b>
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#### Pipe Totals:

<b>21</b>	<b>303</b>	<b>3</b>	<b>0</b>	<b>303</b>
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### Nipples

#### Carbon Steel - Threaded, Black Std - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Steel Nipple								
	2	2	11.51	23	0.09	0	0	23.01

#### Carbon Steel - Threaded, Black Std - Thread Totals:

<b>2</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>23</b>
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#### Nipples Totals:

<b>2</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>23</b>
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### Fittings

#### Copper - Pressure - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
90 Deg Elbow								
	3/4	1	4.39	4	0.80	1	0	4.39
	2	8	45.36	363	1.29	10	0	362.86
Female Adapter								
	3/4	2	8.92	18	1.03	2	0	17.85
Male Adapter								
	2	16	50.04	801	0.68	11	0	800.59
Tee-Reducing								
	2x2x1/2	1	60.45	60	1.42	1	0	60.45
	2x2x3/4	2	60.45	121	1.50	3	0	120.90
Union								
	2	5	193.87	969	1.97	10	0	969.35

#### Copper - Pressure - 95/5 Totals:

<b>35</b>	<b>2,336</b>	<b>38</b>	<b>0</b>	<b>2,336</b>
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#### Fittings Totals:

<b>35</b>	<b>2,336</b>	<b>38</b>	<b>0</b>	<b>2,336</b>
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### Valves

#### Bronze - Soldered Ball WOG - 95/5

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 2 of 5

Bid ID: 5714-A5

Report Time: 3/11/2021 7:04 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Sngl Coil;

#### Valves

##### Bronze - Soldered Ball WOG - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
150# Apol 77-200	1/2	1	22.62	23	0.62	1	0	22.62
600# Mil BA150-H	3/4	1	115.18	115	0.83	1	0	115.18
<b>Bronze - Soldered Ball WOG - 95/5 Totals:</b>								
		<u>2</u>		<u>138</u>		<u>1</u>	<u>0</u>	<u>138</u>

##### Bronze - Threaded 3-Way Control - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
150# Supplied by TC	2	1	0.00	0	4.75	5	0	0.00
<b>Bronze - Threaded 3-Way Control - Thread Totals:</b>								
		<u>1</u>		<u>0</u>		<u>5</u>	<u>0</u>	<u>0</u>
<b>Valves Totals:</b>		<u>3</u>		<u>138</u>		<u>6</u>	<u>0</u>	<u>138</u>

#### Hanger Components

##### - C Clamps -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 86 C-Clamp Gal	3/8	1	3.72	4	0.00	0	0	3.72
Fig 89 Ret Clip	3/8	1	1.76	2	0.00	0	0	1.76
<b>- C Clamps - Totals:</b>								
		<u>2</u>		<u>5</u>		<u>0</u>	<u>0</u>	<u>5</u>

##### - Clevis -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 260 Clevis Gal	3	1	4.12	4	0.00	0	0	4.12
<b>- Clevis - Totals:</b>								
		<u>1</u>		<u>4</u>		<u>0</u>	<u>0</u>	<u>4</u>

##### - Saddles & Shields -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 167 Insl Shield	3	1	5.59	6	0.35	0	0	5.59
CalSil 180 1" CT*	3/4	1	4.16	4	0.00	0	0	4.16

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 3 of 5

Bid ID: 5714-A5

Report Time: 3/11/2021 7:04 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Sngl Coil;

#### Hanger Components

##### - Saddles & Shields -

##### - Saddles & Shields - Totals:

<u>2</u>	<u>10</u>	<u>0</u>	<u>0</u>	<u>10</u>
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##### Galvanized - Rods -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Allthread - Galv	3/8	4	0.47	2	0.00	0	0	1.87

##### Galvanized - Rods - Totals:

<u>4</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>
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##### Hanger Components Totals:

<u>9</u>	<u>21</u>	<u>0</u>	<u>0</u>	<u>21</u>
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#### Labor

##### Hangers

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Clevis Hanger(HgrItem IBm&Tr HgRodBC)								
	3	1	0.00	0	1.48	1	0	0.00

##### Hangers Totals:

<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>
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##### Joints

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
95/5 Solder(Joints CU 95/5)								
	1/2	2	0.00	0	0.00	0	0	0.00
	3/4	5	0.00	0	0.00	0	0	0.00
	2	8	0.00	0	0.00	0	0	0.00
Threaded(Joints CU CuThrd)								
	2	2	0.00	0	0.00	0	0	0.00

##### Joints Totals:

<u>17</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
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##### Labor Totals:

<u>18</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>
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#### HVAC Specialities

##### - Press Ggs & Thermom -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Pete's Plugs								
	Pete's Plug	2	7.80	16	0.41	1	0	15.60
Therm Dir Rdg								
	9" w/ Well - 9VU35,	2	78.00	156	2.25	5	0	156.00
	1							

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 4 of 5

Bid ID: 5714-A5

Report Time: 3/11/2021 7:04 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Sngl Coil;

#### HVAC Specialities

##### - Press Ggs & Thermom -

##### - Press Ggs & Thermom - Totals:

	<u>4</u>	<u>172</u>	<u>5</u>	<u>0</u>	<u>172</u>
<b>HVAC Specialities Totals:</b>	<u>4</u>	<u>172</u>	<u>5</u>	<u>0</u>	<u>172</u>

#### Misc. Consumables

##### - Copper Joints Emory Cloth -

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Emory Cloth								
Emory Cloth		0	0.26	0	0.00	0	0	0.07
<b>- Copper Joints Emory Cloth - Totals:</b>								
		<u>0</u>		<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>

##### - Copper Joints Flux -

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Flux								
Sta-Brite Flux		0	6.50	2	0.00	0	0	1.73
<b>- Copper Joints Flux - Totals:</b>								
		<u>0</u>		<u>2</u>		<u>0</u>	<u>0</u>	<u>2</u>

##### - Copper Joints Solder -

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Solder								
95/5		0	6.18	2	0.00	0	0	1.64
<b>- Copper Joints Solder - Totals:</b>								
		<u>0</u>		<u>2</u>		<u>0</u>	<u>0</u>	<u>2</u>

##### - CS Joints Joint Tape -

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Joint Tape								
Joint Tape - Teflon		1	3.06	3	0.00	0	0	3.20
<b>- CS Joints Joint Tape - Totals:</b>								
		<u>1</u>		<u>3</u>		<u>0</u>	<u>0</u>	<u>3</u>

##### - Gases -

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Gases								
Propane		17	0.33	6	0.00	0	0	5.53
<b>- Gases - Totals:</b>								
		<u>17</u>		<u>6</u>		<u>0</u>	<u>0</u>	<u>6</u>



## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 5 of 5

Bid ID: 5714-A5

Report Time: 3/11/2021 7:04 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2in Sngl Coil;

#### Misc. Consumables

<b>Misc. Consumables Totals:</b>	<u>19</u>	<u>12</u>	<u>0</u>	<u>0</u>	<u>12</u>
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#### Misc. Steel Items

##### - Bolts,Nuts&Washers -

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
Nuts - Galvanized	3/8	4	0.20	1	0.00	0	0	0.82
Washers- Galvanized	3/8	3	0.38	1	0.00	0	0	1.15
<b>- Bolts,Nuts&amp;Washers - Totals:</b>		<u>7</u>		<u>2</u>		<u>0</u>	<u>0</u>	<u>2</u>
<b>Misc. Steel Items Totals:</b>		<u>7</u>		<u>2</u>		<u>0</u>	<u>0</u>	<u>2</u>

#### Pipe Cut

##### Copper - Pipe Cut with Cutters - Cutters

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
PIPE CUT	3/4	1	0.27	0	0.00	0	0	0.27
<b>Copper - Pipe Cut with Cutters - Cutters Totals:</b>		<u>1</u>		<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>
<b>Pipe Cut Totals:</b>		<u>1</u>		<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>

	<u>Material Cost</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
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<b>Grand Totals</b>	<b>\$3,008</b>	<b>55</b>	<b>\$0</b>	<b>\$3,008</b>
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\* Items flagged with an asterisk may have their price and labor overwritten in Excel's Rapid Reports

**LONG BUILDING TECHNOLOGIES, INC.**  
**5001 S. ZUNI STREET**  
**LITTLETON, CO 80120**

**Ship To:**

Braconier  
 4925 Nome Street  
 Attn to: Paul Dense/  
 Denver, CO 80239

**Quote No.:** 42300  
**Quote Date:** 03/10/21  
**PO No:**  
**Project:** DCSD HRHS Coil Packs

**Prepared By:** Chris Zitur 720-985-8688  
**Page No.:** 1 of 1

We are pleased to offer the following quotation for your consideration:

Item	Qty	Description	Unit Price	Extended Price
QS3PP0YT	1	105.2CV, QUICKSET, 2"SWT, TP 1-1/2"MNPT	181.00	181.00
IB3CP0YY	1	ISOLATOR B, CPTA&DV, 2"SWT, TP 2"SWT	131.00	131.00
IU3B0YQ	1	ISOLATOR UNION, CPTA, 2"SWT, TP 1-1/2"FNPT	64.00	64.00
3QFMY	1	135CV, 2.5" FLANGE END, QUICKSET	402.00	402.00
<b>Commercial Terms:</b>				
<b>FOB Point</b> : Factory			<b>Product Total:</b>	\$778.00
<b>Payment Terms</b> : NET 30				
<b>Weight</b> : 41.9			<b>Grand Total:</b>	\$778.00
<b>Ship Via</b> : BESTWAY				
<b>Standard Terms and Conditions</b>				



DESIGN BUILD  
MECHANICAL CONSTRUCTION  
FABRICATION  
SERVICE & MAINTENANCE

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-3

This document adds the following scope of work for us:

1. Valves and specialties added to heating water piping at RTU.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 14,141**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,

Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-3

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 3,370	59
Material Handling		3
Non-Working Direct Supervision		6
Rental Equipment (scissor lift)	\$ 699	
Hoisting		
Project Management		3

<b>MATERIAL</b>		Material/Equipment Subtotal:	\$ 4,069
		Sales Tax:	\$ -
		<b>Material/Equipment Total:</b>	<b>\$ 4,069</b>

<b>LABOR</b>		Labor Manhours:	71
		Composite Hourly Wage Rate:	\$ 102.45
		<b>Labor Cost Total:</b>	<b>\$ 7,299</b>

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$	11,368		
Braconier Self-Performed Overhead & Profit:	\$	1,705		
<b>Braconier Self-Performed Total:</b>			<b>\$</b>	<b>13,073</b>

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$	798		
Overhead and Profit on Subcontractors:	\$	120		
<b>3rd Tier Subcontractor Cost Total:</b>			<b>\$</b>	<b>918</b>

Payment & Performance Bond:	\$	150		
Textura Usage Fee:	\$	-		

<b>COST PROPOSAL:</b>			<b>\$</b>	<b>14,141</b>
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<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU single coil hot water coil piping detail adds from original drawings	1	3008	\$ 3,008	55	55
RTU single coil valve pack	1	362	\$ 362	4	4
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 3,370		59

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-4

This document adds the following scope of work for us:

1. Additional pipe, valves and fittings added to RTU's with two coil connections.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 22,362**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,



Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-4

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 5,291	97
Material Handling		5
Non-Working Direct Supervision		10
Rental Equipment (scissor lift)	\$ 1,149	
Hoisting		
Project Management		5

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ 6,440	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>	<b>\$ 6,440</b>	

<b>LABOR</b>	Labor Manhours:	117	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>	<b>\$ 12,000</b>	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 18,441	
Braconier Self-Performed Overhead & Profit:	\$ 2,766	
<b>Braconier Self-Performed Total:</b>	<b>\$ 21,207</b>	

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
<b>3rd Tier Subcontractor Cost Total:</b>	<b>\$ 918</b>	

Payment & Performance Bond:	\$ 237	
Textura Usage Fee:	\$ -	

**COST PROPOSAL: \$ 22,362**

<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU dual coil hot water coil piping detail adds from original drawings small	1	4567	\$ 4,567	89	89
RTU dual coil valve pack small	1	724	\$ 724	8	8
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 5,291		97



Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-5

This document adds the following scope of work for us:

1. Additional pipe, valves and fittings added to RTU's with two coil connections.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 42,015**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,



Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-5

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 4,577	227
Material Handling		11
Non-Working Direct Supervision		24
Rental Equipment (scissor lift)	\$ 2,690	
Hoisting		
Project Management		12

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ 7,267	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>	<b>\$ 7,267</b>	

<b>LABOR</b>	Labor Manhours:	274	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>	<b>\$ 28,083</b>	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 35,350	
Braconier Self-Performed Overhead & Profit:	\$ 5,302	
<b>Braconier Self-Performed Total:</b>	<b>\$ 40,652</b>	

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
<b>3rd Tier Subcontractor Cost Total:</b>	<b>\$ 918</b>	

Payment & Performance Bond:	\$ 445	
Textura Usage Fee:	\$ -	

<b>COST PROPOSAL:</b>		<b>\$ 42,015</b>
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<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU dual coil hot water coil piping detail adds from original drawings large	1	3632	\$ 3,632	217	217
RTU dual coil valve pack large	1	945	\$ 945	10	10
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 4,577		227

**Braconier Plumbing & Heating Co., Inc.**

**Project Name: DCSD HRHS**

**Bid ID: 5714-A5**

**Report Time: 3/11/2021 7:02 PM**

**Profile Name: Standard**

**Labor Book: Braconier MCA**

**Scoped By: Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;**

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

#### Pipe

##### Carbon Steel - Plain End Black Sch 40 - ButtWld

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
A53 ERW								
	2-1/2	20	8.10	162	0.34	7	0	162.07
<b>Carbon Steel - Plain End Black Sch 40 - ButtWld Totals:</b>								
		<u>20</u>		<u>162</u>		<u>7</u>	<u>0</u>	<u>162</u>

##### Copper - Type L - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Hard Tube								
	1/2	0	2.29	1	0.09	0	0	0.70
	3/4	1	3.73	5	0.09	0	0	5.17
	2	40	14.94	602	0.13	5	0	602.26
<b>Copper - Type L - 95/5 Totals:</b>								
		<u>42</u>		<u>608</u>		<u>6</u>	<u>0</u>	<u>608</u>
<b>Pipe Totals:</b>		<u>62</u>		<u>770</u>		<u>12</u>	<u>0</u>	<u>770</u>

#### Nipples

##### Carbon Steel - Threaded, Black Std - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Steel Nipple								
	2	10	11.51	115	0.09	1	0	115.05
<b>Carbon Steel - Threaded, Black Std - Thread Totals:</b>								
		<u>10</u>		<u>115</u>		<u>1</u>	<u>0</u>	<u>115</u>
<b>Nipples Totals:</b>		<u>10</u>		<u>115</u>		<u>1</u>	<u>0</u>	<u>115</u>

#### Fittings

##### Brass - Threaded Brass - 125 Lb - Thread

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Plug								
	3/4	3	7.84	24	0.08	0	0	23.51
<b>Brass - Threaded Brass - 125 Lb - Thread Totals:</b>								
		<u>3</u>		<u>24</u>		<u>0</u>	<u>0</u>	<u>24</u>

##### Carbon Steel - Branch Outlets 3000# - ButtWld

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Thread-O-Let								
	2-1/2x3/4	6	7.98	48	2.37	14	0	47.88
<b>Carbon Steel - Branch Outlets 3000# - ButtWld Totals:</b>								
		<u>6</u>		<u>48</u>		<u>14</u>	<u>0</u>	<u>48</u>

# Braconier Plumbing & Heating Co., Inc.

## Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

### Fittings

#### Carbon Steel - Butt Weld, Std Wt - ButtWld

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
90 Deg Elbow LR								
	2-1/2	8	18.42	147	5.76	46	0	147.37
Reducer-Concentric								
	2-1/2x2	7	29.18	204	4.96	35	0	204.27
Tee								
	2-1/2	3	50.55	152	8.29	25	0	151.64

#### Carbon Steel - Butt Weld, Std Wt - ButtWld Totals:

<b>18</b>	<b>503</b>	<b>106</b>	<b>0</b>	<b>503</b>
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#### Copper - Pressure - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
90 Deg Elbow								
	3/4	2	4.39	9	0.80	2	0	8.78
	2	8	45.36	363	1.34	11	0	362.86
Coupling								
	2	6	22.80	137	1.27	8	0	136.80
Male Adapter								
	2	3	50.04	150	0.68	2	0	150.11
FIPxCU Die Union								
	2	5	144.79	724	1.97	10	0	723.94

#### Copper - Pressure - 95/5 Totals:

<b>24</b>	<b>1,382</b>	<b>32</b>	<b>0</b>	<b>1,382</b>
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<b>Fittings Totals:</b>	<b>51</b>	<b>1,957</b>	<b>152</b>	<b>0</b>	<b>1,957</b>
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### Flanges

#### Carbon Steel - Raised Face, 150 Weldbend - Flanged

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Slip-on								
	2-1/2	7	23.07	161	3.57	25	0	161.50

#### Carbon Steel - Raised Face, 150 Weldbend - Flanged Totals:

<b>7</b>	<b>161</b>	<b>25</b>	<b>0</b>	<b>161</b>
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<b>Flanges Totals:</b>	<b>7</b>	<b>161</b>	<b>25</b>	<b>0</b>	<b>161</b>
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### Valves

#### Bronze - Flanged 3-Way Control - Flanged

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
150# Supplied by TC								
	2-1/2	1	0.00	0	6.42	6	0	0.00

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

#### Valves

##### Bronze - Flanged 3-Way Control - Flanged

##### Bronze - Flanged 3-Way Control - Flanged Totals:

<u>1</u>	<u>0</u>	<u>6</u>	<u>0</u>	<u>0</u>
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##### Bronze - Soldered Ball WOG - 95/5

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
150# Apol 77-200								
	1/2	2	22.62	45	0.62	1	0	45.25
Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
600# Mil BA150-H								
	3/4	2	115.18	230	0.83	2	0	230.36
<b>Bronze - Soldered Ball WOG - 95/5 Totals:</b>								
		<u>4</u>		<u>276</u>		<u>3</u>	<u>0</u>	<u>276</u>
<b>Valves Totals:</b>		<u>5</u>		<u>276</u>		<u>9</u>	<u>0</u>	<u>276</u>

#### Hanger Components

##### - C Clamps -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 86 C-Clamp Gal								
	3/8	3	3.72	11	0.00	0	0	11.17
	1/2	3	4.27	13	0.00	0	0	12.81
Fig 89 Ret Clip								
	3/8	3	1.76	5	0.00	0	0	5.27
	1/2	3	1.76	5	0.00	0	0	5.27
<b>- C Clamps - Totals:</b>								
		<u>12</u>		<u>35</u>		<u>0</u>	<u>0</u>	<u>35</u>

##### - Clevis -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 260 Clevis								
	6	3	7.19	22	0.00	0	0	21.57
Fig 260 Clevis Gal								
	3	3	4.12	12	0.00	0	0	12.35
<b>- Clevis - Totals:</b>								
		<u>6</u>		<u>34</u>		<u>0</u>	<u>0</u>	<u>34</u>

##### - Saddles & Shields -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Fig 167 Insl Shield								
	3	3	5.59	17	0.35	1	0	16.78
	6	3	8.28	25	0.35	1	0	24.85
Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

#### Hanger Components

##### - Saddles & Shields -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
CalSil 180 1" CT*								
	3/4	3	4.16	12	0.00	0	0	12.48
CalSil 180 1.5" IP*								
	2-1/2	3	7.42	22	0.00	0	0	22.27
<b>- Saddles &amp; Shields - Totals:</b>		<u>12</u>		<u>76</u>		<u>2</u>	<u>0</u>	<u>76</u>

##### Galvanized - Rods -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Allthread - Galv								
	3/8	12	0.47	6	0.00	0	0	5.61
	1/2	6	0.78	5	0.00	0	0	4.70
<b>Galvanized - Rods - Totals:</b>		<u>18</u>		<u>10</u>		<u>0</u>	<u>0</u>	<u>10</u>
<b>Hanger Components Totals:</b>		<u>48</u>		<u>155</u>		<u>2</u>	<u>0</u>	<u>155</u>

#### Labor

##### Hangers

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Clevis Hanger(HgrItem IBm&Tr HgRodBC)								
	3	3	0.00	0	1.49	4	0	0.00
	6	3	0.00	0	1.70	5	0	0.00
<b>Hangers Totals:</b>		<u>6</u>		<u>0</u>		<u>10</u>	<u>0</u>	<u>0</u>

##### Joints

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
95/5 Solder(Joints CU 95/5)								
	1/2	3	0.00	0	0.00	0	0	0.00
	3/4	5	0.00	0	0.00	0	0	0.00
	2	6	0.00	0	0.00	0	0	0.00
Std Wt(Joints CS BW)								
	2	2	0.00	0	0.00	0	0	0.00
	2-1/2	1	0.00	0	0.00	0	0	0.00
<b>Joints Totals:</b>		<u>17</u>		<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>
<b>Labor Totals:</b>		<u>23</u>		<u>0</u>		<u>10</u>	<u>0</u>	<u>0</u>

#### HVAC Specialities



## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

#### HVAC Specialities

##### - Press Ggs & Thermom -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Pete's Plugs								
	Pete's Plug	2	7.80	16	0.41	1	0	15.60
Therm Dir Rdg								
	9" w/ Well - 9VU35, 1	2	78.00	156	2.25	5	0	156.00

##### - Press Ggs & Thermom - Totals:

<u>4</u>	<u>172</u>	<u>5</u>	<u>0</u>	<u>172</u>
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##### HVAC Specialities Totals:

<u>4</u>	<u>172</u>	<u>5</u>	<u>0</u>	<u>172</u>
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#### Misc. Consumables

##### - Copper Joints Emory Cloth -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Emory Cloth								
	Emory Cloth	0	0.26	0	0.00	0	0	0.06

##### - Copper Joints Emory Cloth - Totals:

<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
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##### - Copper Joints Flux -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Flux								
	Sta-Brite Flux	0	6.50	1	0.00	0	0	1.46

##### - Copper Joints Flux - Totals:

<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>
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##### - Copper Joints Solder -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Solder								
	95/5	0	6.18	1	0.00	0	0	1.38

##### - Copper Joints Solder - Totals:

<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>
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##### - CS Joints CS Threaded Joint -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
CS Threaded Joint								
	Cutting Oil	0	9.75	0	0.00	0	0	0.02
	Joint Compound	0	12.03	0	0.00	0	0	0.02

##### - CS Joints CS Threaded Joint - Totals:

<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
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##### - Gases -

## Braconier Plumbing & Heating Co., Inc.

### Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

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Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

#### Misc. Consumables

##### - Gases -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Gases								
	Propane	14	0.33	5	0.00	0	0	4.50
<b>- Gases - Totals:</b>		<u>14</u>		<u>5</u>		<u>0</u>	<u>0</u>	<u>5</u>

##### - Weld Inches - CS -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
CS Diameter Inches								
	2	2	0.00	0	0.00	0	0	0.00
	2-1/2	3	0.00	0	0.00	0	0	0.00
<b>- Weld Inches - CS - Totals:</b>		<u>5</u>		<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>

##### - Weld Joints - CS -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
CS Weld Joints								
	2	1	0.00	0	0.00	0	0	0.00
	2-1/2	1	0.00	0	0.00	0	0	0.00
<b>- Weld Joints - CS - Totals:</b>		<u>2</u>		<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>

##### - Welding Weld Rod -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Weld Rod								
	CS Rod, 3/32	0	1.79	1	0.00	0	0	0.69
<b>- Welding Weld Rod - Totals:</b>		<u>0</u>		<u>1</u>		<u>0</u>	<u>0</u>	<u>1</u>

<b>Misc. Consumables Totals:</b>	<u>21</u>		<u>8</u>		<u>0</u>	<u>0</u>	<u>8</u>
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#### Misc. Steel Items

##### - Bolts,Nuts&Washers -

Item	Size	Qty	Price	Mat. Cost	Unit Lab Hr	Total Hrs	Labor Cost	Total Cost
Nuts - Galvanized								
	3/8	12	0.20	2	0.00	0	0	2.46
	1/2	12	0.44	5	0.00	0	0	5.30
Washers- Galvanized								
	3/8	9	0.38	3	0.00	0	0	3.44
	1/2	9	0.68	6	0.00	0	0	6.10
<b>- Bolts,Nuts&amp;Washers - Totals:</b>		<u>42</u>		<u>17</u>		<u>0</u>	<u>0</u>	<u>17</u>

# Braconier Plumbing & Heating Co., Inc.

## Submitted Cost

There were 6 calculation messages.

Project Name: DCSD HRHS

Page: 7 of 7

Bid ID: 5714-A5

Report Time: 3/11/2021 7:02 PM

Data Calculated: 3/11/2021 6:58:21 PM

Base Bid; System: ALL; Breakout: 2.5in Dbl Coil;

### Misc. Steel Items

<b>Misc. Steel Items Totals:</b>	<u>42</u>	<u>17</u>	<u>0</u>	<u>0</u>	<u>17</u>
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### Pipe Cut

#### Copper - Pipe Cut with Cutters - Cutters

<u>Item</u>	<u>Size</u>	<u>Qty</u>	<u>Price</u>	<u>Mat. Cost</u>	<u>Unit Lab Hr</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
PIPE CUT								
	3/4	1	0.27	0	0.00	0	0	0.27

#### Copper - Pipe Cut with Cutters - Cutters Totals:

	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Pipe Cut Totals:</b>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	<u>Material Cost</u>	<u>Total Hrs</u>	<u>Labor Cost</u>	<u>Total Cost</u>
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<b>Grand Totals</b>	<b>\$3,632</b>	<b>217</b>	<b>\$0</b>	<b>\$3,632</b>
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\* Items flagged with an asterisk may have their price and labor overwritten in Excel's Rapid Reports

**LONG BUILDING TECHNOLOGIES, INC.**  
**5001 S. ZUNI STREET**  
**LITTLETON, CO 80120**

**Ship To:**

Braconier  
 4925 Nome Street  
 Attn to: Paul Dense/  
 Denver, CO 80239

**Quote No.:** 42300  
**Quote Date:** 03/10/21  
**PO No:**  
**Project:** DCSD HRHS Coil Packs

**Prepared By:** Chris Zitur 720-985-8688  
**Page No.:** 1 of 1

We are pleased to offer the following quotation for your consideration:

Item	Qty	Description	Unit Price	Extended Price
QS3PP0YT	1	105.2CV, QUICKSET, 2"SWT, TP 1-1/2"MNPT	181.00	181.00
IB3CP0YY	1	ISOLATOR B, CPTA&DV, 2"SWT, TP 2"SWT	131.00	131.00
IU3B0YQ	1	ISOLATOR UNION, CPTA, 2"SWT, TP 1-1/2"FNPT	64.00	64.00
3QFMY	1	135CV, 2.5" FLANGE END, QUICKSET	402.00	402.00
<b>Commercial Terms:</b>				
<b>FOB Point</b> : Factory			<b>Product Total:</b>	\$778.00
<b>Payment Terms</b> : NET 30				
<b>Weight</b> : 41.9			<b>Grand Total:</b>	\$778.00
<b>Ship Via</b> : BESTWAY				
<b>Standard Terms and Conditions</b>				



DESIGN BUILD  
MECHANICAL CONSTRUCTION  
FABRICATION  
SERVICE & MAINTENANCE

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-6

This document adds the following scope of work for us:

1. Valves and specialties added to heating water piping at RTU.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 14,141**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,

Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-6

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 3,370	59
Material Handling		3
Non-Working Direct Supervision		6
Rental Equipment (scissor lift)	\$ 699	
Hoisting		
Project Management		3

<b>MATERIAL</b>		Material/Equipment Subtotal: \$ 4,069	
		Sales Tax: \$ -	
		Material/Equipment Total: \$ 4,069	

<b>LABOR</b>		Labor Manhours: 71	
		Composite Hourly Wage Rate: \$ 102.45	
		Labor Cost Total: \$ 7,299	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 11,368	
Braconier Self-Performed Overhead & Profit:	\$ 1,705	
Braconier Self-Performed Total:		\$ 13,073

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
3rd Tier Subcontractor Cost Total:		\$ 918

Payment & Performance Bond:	\$ 150	
Textura Usage Fee:	\$ -	

COST PROPOSAL:		\$ 14,141
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<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU single coil hot water coil piping detail adds from original drawings	1	3008	\$ 3,008	55	55
RTU single coil valve pack	1	362	\$ 362	4	4
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 3,370		59

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-7

This document adds the following scope of work for us:

1. Additional pipe, valves and fittings added to RTU's with two coil connections.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 42,015**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,



Paul Dense  
Vice President



Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-7

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 4,577	227
Material Handling		11
Non-Working Direct Supervision		24
Rental Equipment (scissor lift)	\$ 2,690	
Hoisting		
Project Management		12

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ 7,267	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>	<b>\$ 7,267</b>	

<b>LABOR</b>	Labor Manhours:	274	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>	<b>\$ 28,083</b>	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 35,350	
Braconier Self-Performed Overhead & Profit:	\$ 5,302	
<b>Braconier Self-Performed Total:</b>	<b>\$ 40,652</b>	

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
<b>3rd Tier Subcontractor Cost Total:</b>	<b>\$ 918</b>	

Payment & Performance Bond:	\$ 445	
Textura Usage Fee:	\$ -	

<b>COST PROPOSAL:</b>		<b>\$ 42,015</b>
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<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU dual coil hot water coil piping detail adds from original drawings large	1	3632	\$ 3,632	217	217
RTU dual coil valve pack large	1	945	\$ 945	10	10
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 4,577		227

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 - RTU-8

This document adds the following scope of work for us:

1. Additional pipe, valves and fittings added to RTU's with two coil connections.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 42,015**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,



Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 - RTU-8

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ 4,577	227
Material Handling		11
Non-Working Direct Supervision		24
Rental Equipment (scissor lift)	\$ 2,690	
Hoisting		
Project Management		12

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ 7,267	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>	\$ 7,267	

<b>LABOR</b>	Labor Manhours:	274	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>	\$ 28,083	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 35,350	
Braconier Self-Performed Overhead & Profit:	\$ 5,302	
<b>Braconier Self-Performed Total:</b>	\$ 40,652	

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$ -
Mechanical Insulation	\$ 723
DDC Temperature Controls	
Testing, Adjusting, and Balancing	\$ 75
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 798	
Overhead and Profit on Subcontractors:	\$ 120	
<b>3rd Tier Subcontractor Cost Total:</b>	\$ 918	

Payment & Performance Bond:	\$ 445	
Textura Usage Fee:	\$ -	

<b>COST PROPOSAL:</b>		<b>\$ 42,015</b>
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<b>Description</b>	<b>Quantity</b>	<b>Materials</b>	<b>Total Materials</b>	<b>Labor</b>	<b>Total Labor</b>
RTU dual coil hot water coil piping detail adds from original drawings large	1	3632	\$ 3,632	217	217
RTU dual coil valve pack large	1	945	\$ 945	10	10
			\$ -		0
			\$ -		0
<b>Total</b>			\$ 4,577		227



DESIGN BUILD  
MECHANICAL CONSTRUCTION  
FABRICATION  
SERVICE & MAINTENANCE

Date: 3/15/2021

To: Dirk Samuelson  
GTC

Braconier Plumbing and Heating is in receipt of the following document:  
RFI#3 Sheet metal changes

This document adds the following scope of work for us:

1. Add water heater flue.
2. Add mesh screens at return duct openings at RTU's.
3. Install 14 smoke detectors at RTU's.

Exclusions:

Ceiling removal and replacement  
Floor protection for lifts

**Our price for this change is: \$ 16,500**

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,

Paul Dense  
Vice President

Braconier Plumbing and Heating  
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 3/15/2021  
 Project Name: DCSD Highlands Ranch HS  
 Contract / Project No.:  
 Description of Change: RFI#3 Sheet metal changes

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.07% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

**Braconier Self-Performed Scope of Work:**

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ -	0
Material Handling		0
Non-Working Direct Supervision		8
Rental Equipment (scissor lift)	\$ -	
Hoisting		
Project Management		8

<b>MATERIAL</b>	Material/Equipment Subtotal:	\$ -	
	Sales Tax:	\$ -	
	<b>Material/Equipment Total:</b>	<b>\$ -</b>	

<b>LABOR</b>	Labor Manhours:	16	
	Composite Hourly Wage Rate:	\$ 102.45	
	<b>Labor Cost Total:</b>	<b>\$ 1,639</b>	

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$	1,639	
Braconier Self-Performed Overhead & Profit:	\$	246	
<b>Braconier Self-Performed Total:</b>	<b>\$</b>	<b>1,885</b>	

**3rd Tier Subcontractors:**

HVAC Sheetmetal	\$	12,557
Mechanical Insulation	\$	-
DDC Temperature Controls		
Testing, Adjusting, and Balancing	\$	-
Electrical		
Structural Steel Platform		
Engineering		

3rd Tier Subcontractor Cost Subtotal:	\$	12,557	
Overhead and Profit on Subcontractors:	\$	1,884	
<b>3rd Tier Subcontractor Cost Total:</b>	<b>\$</b>	<b>14,441</b>	

Payment & Performance Bond:	\$	175	
Textura Usage Fee:	\$	-	

<b>COST PROPOSAL:</b>	<b>\$</b>	<b>16,500</b>
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45 Inverness Drive East  
Englewood, CO 80112  
Phone: 720-502-3530

February 16, 2021

Mr. Paul Dense  
Braconier Plumbing & Heating

RE: DCSD Highlands Ranch H.S. – RFI #03 Type ‘B’ Flue Pricing Revised

Thank you for the opportunity to submit the following Division 23 Sheet Metal only proposal for the above referenced project in Highlands Ranch, Colorado. The following is our scope of work and price:

**1. Inclusions:**

- a. Furnish/Install: (1) Lot of 4” Type ‘B’ Flue w/Termination Cap
- b. Furnish/Install: Changes Made to the Type ‘B’ Boiler Flues

**2. Clarifications:**

- a. Excludes Roof Work
- b. Excludes Over Time
- c. Excludes Structural Steel

**3. Exclusions:** Over Time, Roof Work, Structural Steel, Barometric Dampers

**4. Total Price - \$9,440.00**

Add 1.5% for Payment and Performance bond not included in our bid price.

Our price is valid, as quoted, for 60 days from the date of this proposal.

Sincerely,

Dan McMurray  
Area Manager





45 Inverness Drive East  
Englewood, CO 80112  
Phone: 720-502-3530

February 12, 2021

Mr. Paul Dense  
Braconier Plumbing & Heating

RE: DCSD Highlands Ranch H.S. – RFI #05 Smoke Detectors Install New Pricing

Thank you for the opportunity to submit the following Division 23 Sheet Metal only proposal for the above referenced project in Highlands Ranch, Colorado. The following is our scope of work and price:

**1. Inclusions:**

- a. Installation of (14) Smoke Detectors for RTU's 1, 2, 4, 5, 6, 7 & 8 (Furnished, Wiring, Warranty, Off-loading by E.C.)

**2. Clarifications:**

- a. Excludes Furnishing of Smoke Detectors
- b. Excludes Over Time
- c. Excludes Wiring

**3. Exclusions:** Over Time, Electrical, Smoke Detectors

**4. Total Price - \$2,087.00**

Add 1.5% for Payment and Performance bond not included in our bid price.

Our price is valid, as quoted, for 60 days from the date of this proposal.

Sincerely,

Dan McMurray  
Area Manager



45 Inverness Drive East  
Englewood, CO 80112  
Phone: 720-502-3530

March 1, 2021

Mr. Paul Dense  
Braconier Plumbing & Heating

RE: DCSD Highlands Ranch H.S. – RFI #03 Wire Mesh Screens Pricing

Thank you for the opportunity to submit the following Division 23 Sheet Metal only proposal for the above referenced project in Highlands Ranch, Colorado. The following is our scope of work and price:

**1. Inclusions:**

- a. Furnish/Install: (2) 76"x34" 1/4" Galvanized Wire Mesh Screens on Return Openings in Gym
- b. Furnish/Install: (1) 50"x20" 1/4" Galvanized Wire Mesh Screens on Return Opening in Weight Room
- c. Furnish/Install: (1) 50"x20" 1/4" Galvanized Wire Mesh Screens on Return Opening in Wrestling Room

**2. Clarifications:**

- a. Excludes Any Additional Areas not Mention in Above Scope
- b. Excludes Over Time

**3. Exclusions:** Over Time, Painting

**4. Total Price - \$1,030.00**

Add 1.5% for Payment and Performance bond not included in our bid price.

Our price is valid, as quoted, for 60 days from the date of this proposal.

Sincerely,

Dan McMurray  
Area Manager



## Proposed Change Request

Project: Highlands Ranch HS Renovation  
PCR No.: 5  
Date: March 6, 2021  
GTC Project No.: 1732

To: NV5  
Attn: Wes Breeden  
2420 W. 26<sup>th</sup> Ave., Suite D-360  
Denver, CO 80211

### Description of Change:

Proposal Request No. 03, dated 3/2/21  
- Revisions to electrical switchgear

**Add:** \$2,143

### Assumptions:

- None

### Scope and PCR excludes:

- None

### Contract Time Extension:

Request for Extension: 0 Days  
Additional Labor Required: 0 Man Hours

### CONTRACTOR'S CERTIFICATE:

This is to certify that, to the best of our knowledge and belief, the cost request submitted in response to this scope revision is accurate and complete.

Signed: Dirk Samuelson Date: 3/6/2021  
Dirk Samuelson, Senior Project Manager  
GTC, Inc.

### OWNER'S CERTIFICATE

This is to certify that the owner has reviewed the proposal and authorizes GTC, Inc. to proceed with this scope revision.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
Wes Breeden, Project Manager  
NV5

Project: **Highlands Ranch HS Renovation**  
 Item : **Proposal Request No. 03, dated 3/2/21**  
 PCR No.: **5**  
 Date: March 6, 2021



Description	Qty	Unit	Unit Cost	Labor Cost	Unit Cost	Material Cost	Unit Cost	Subcontract Cost	Total Costs
<b>GTC Work to Perform</b>			0.00 >	0	0.00 >	0	0.00 >	0	0
Layout & Coordination	0	mhr	34.25 >	0	0.00 >	0	0.00 >	0	0
	0		0.00 >	0	0.00 >	0	0.00 >	0	0
<b>Subs &amp; Suppliers</b>	0		0.00 >	0	0.00 >	0	0.00 >	0	0
<b>Montgomery Electric</b>	0		0.00 >	0	0.00 >	0	0.00 >	0	0
-Switchgear Revisions	1	ls	0.00 >	0	0.00 >	0	2,033.00 >	2,033	2,033
	0		0.00 >	0	0.00 >	0	0.00 >	0	0
<b>General Conditions</b>	0		0.00 >	0	0.00 >	0	0.00 >	0	0
Project Engineer	0	mhr	0.00 >	0	0.00 >	0	0.00 >	0	0
Working Foreman: 50% Productive	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Job Trailer	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Superintendent Trucking	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Reproduction Cost	0	ls	0.00 >	0	0.00 >	0	0.00 >	0	0
Dumpster/Rubbish Removal	0	ld	0.00 >	0	350.00 >	0	0.00 >	0	0
<b>Subtotal</b>				0		0		2,033	2,033
Fringe Benefits	15.00%			0					0
Insurance & Payroll Taxes	37.25%			0					0
Sales Taxes	0.00%					0			0
Small Tools	2.00%					0			0
<b>Subtotal</b>				0		0		2,033	2,033
Building Permit - <b>BY OWNER</b>	0.00%							0	0
City & County Use Taxes - <b>BY OWNER</b>	0.00%							0	0
Builders Risk Insurance	0.14%							3	3
General Insurance	0.90%							18	18
<b>Subtotal</b>				0		0		2,054	2,054
Performance & Payment Warranty Bond	0.84%							17	17
Overhead & Fee	3.50%							72	72
<b>Total</b>				0		0		2,143	<b>2,143</b>



## MONTGOMERY ELECTRIC, INC. PRICING SHEET

### WORK DESCRIPTION

Pricing for returned switchgear submittal notes and PR-03

Pricing By: Jason M

COR Number: 3

Date: 3/5/2021

Job Number: 21-886

### MATERIALS

Material Description	Amount	Rate	Subtotal	Total
CRA Line Item #7	\$891.56	1.00	\$891.56	\$891.56
CRA Line Item #8	\$225.82	1.00	\$225.82	\$225.82
CRA Line Item #9	\$726.58	1.00	\$726.58	\$726.58
		1.00	\$0.00	\$0.00
		1.00	\$0.00	\$0.00
		1.00	\$0.00	\$0.00

**SUBTOTAL** \$1,843.96

Major Quotes:

		1.00	\$0.00	\$0.00
		1.00	\$0.00	\$0.00
		1.00	\$0.00	\$0.00
		1.00	\$0.00	\$0.00

**SUBTOTAL** \$0.00

Materials Tax % \$1,843.96

\$0.00

**TOTAL TAX** \$0.00

**MATERIALS TOTAL INCLUDING TAX** \$1,843.96

### LABOR

	Hourly Percentage	Avg. Manpower	Hourly wage	
<b>Total Hours From Estimate</b>		0.00		
<b>Direct Labor</b>	100.00%	0.00	\$90.00	\$0.00
<b>Project Management</b>	0.00%	0.00	\$0.00	\$0.00
<b>Other</b>	0.00%	0.00	\$0.00	\$0.00

**LABOR SUBTOTAL** \$0.00

### SMALL TOOLS/CONSUMABLES/SAFETY

Small Tools/Consumables/Safety	\$0.00	0.00%	\$0.00	\$0.00
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<b>Material Subtotal</b>		\$1,843.96
<b>Overhead</b>	5.00%	\$92.20
<b>Profit</b>	5.00%	\$96.81
<b>Material Total</b>		\$2,032.97
<b>Labor Total</b>		\$0.00
<b>Rental Equipment</b>		\$0.00
<b>JOB TOTAL</b>		\$2,032.97
<b>ADJUSTED TOTAL</b>		\$2,033.00

**Dirk Samuelson**

---

**Subject:** FW: HIGHLANDS RANCH HS REVISED PRICING

Hi Jason,

Here is the pricing adds per line.

#7) L2J had no panel schedule provided in drawings and changed from (42) 20A/1P to (1) 150A/3P, (1) 15A/1P & (38) 20A/1P. **\$891.56**

#8) L2A added a 100A/3P breaker to feed L2A1. Not on panel schedule in provided drawings **\$225.82**

#9) L1C1 added a 150A/3P breaker to feed L1C. Not on panel schedule in provided drawing. **\$726.58**

Thanks,

Eric Dunn  
Quotations Specialist  
Crescent Electric Supply  
1780 W. 6th Avenue  
Denver, CO 80204  
P-303-592-8425





# PROPOSAL REQUEST

Douglas County School District	Highlands Ranch HS Renovation
GTC	Attn: Dirk Samuelson
700 Weaver Park Rd	
Longmont, CO 80501	
303-772-4051	Fax
dsamuelson@gtc1.net	

Submit an itemized (labor and material) quotation for the proposed modifications to the contract documents as described herein within 21 days of receipt. If a cost is not submitted within 21 days, this Proposal Request can be accepted at no additional cost. Written approval is required prior to proceeding with this change.  COST EXPECTATIONS: <input type="checkbox"/> DEDUCT <input type="checkbox"/> NO COST <input type="checkbox"/> ADD	<b>PR: #03</b>
	<b>Comm: #205014</b>
	<b>Const. Pkg: #</b>

**Distribution:**

- Wes Breeden, NV5
- Dirk Samuelson, GTC
- Josh Grenier, Wold
- Ed Mitchell, Wold
- Monica Mong, Wold
- Michael Johnson, Cator Ruma
- Ira Daigle, Cator Ruma
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Item	Description
<b>3</b>	<b>Electrical Clarifications</b>
3.1	PR 3 Electrical Narrative - Notes revisions in Electrical set
3.2	E3.02 Electrical Panel Schedules - See narrative for noted revisions
3.3	E3.03 Electrical Panel Schedules - See narrative for noted revisions
3.4	E3.04 Electrical Panel Schedules - See narrative for noted revisions

Attachments: PR 3 Electrical Narrative, E3.02, E3.03, E3.04

Issued By: Monica Mong Date: 03.02.2021

DCSD HRHS  
PR 003  
March 5, 2021

Electrical Drawings

1. Sheet E3.02 – Electrical Panel Schedules
  - a. Showed the feed thru lugs in panel “L1E” required to feed panel “L1E1”.
  - b. Added 150A3P Breaker in panel “L1C1” required to feed panel “L1C”.
  - c. Showed the feed thru lugs in panel “L1D” required to feed panel “L1D1”.
  
2. Sheet E3.03 – Electrical Panel Schedules
  - a. Showed the feed thru lugs in panel “L1F1” required to feed panel “L1F2”.
  - b. Revised mounting to Recessed on panels “HK1” and “LK1”.
  
3. Sheet E3.04 – Electrical Panel Schedules
  - a. Added 100A3P Breaker in panel “L2A” required to feed panel “L2A1”.
  - b. Showed the feed thru lugs in panel “L2G” required to feed panel “L1G”.
  - c. Added panel schedule for panel “L2J”.





Panel L1D1. Location: ELECTRICAL 1327. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 400 A. MCB Rating: 400 A. Circuit Notes: 1. GFI Breaker. 2. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel L1E. Location: E 1622. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 250 A. MCB Rating: 250 A. Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel L1C1. Location: ELECTRICAL 1546. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 250 A. MCB Rating: 250 A. Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel L1D2. Location: ELECTRICAL 1327. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 225 A. MCB Rating: 100 A. Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel L1E1. Location: E 1622. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MLO. Bus Rating: 400 A. Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel L1C. Location: ELECTRICAL 1546. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MLO. Bus Rating: 225 A. Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel L1D. Location: ELECTRICAL 1327. Voltage: 120/208 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 400 A. MCB Rating: 400 A. Circuit Notes: 1. GFI breaker. 2. Reconnect existing load to same circuit position as in existing equipment. No new load added.

Panel H1J. Location: CUSTODIAL 1617. Voltage: 480/277 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 14,000. Mains Type: MLO. Bus Rating: 100 A. Circuit Notes: 1. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER AS SHOWN. 2. NEW LOAD ON EXISTING CIRCUIT BREAKER. 3. EXISTING LOAD REMOVED.

Panel H1E. Location: E 1622. Voltage: 480/277 Wye. Phase: 3. Wire: 4. A.I.C. Rating: 14,000. Mains Type: MLO. Bus Rating: 225 A. Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of CO

License Number: Elec Name Date: 10.23.2020

Revisions table with columns: Description, Date, Num. Row 1: PR 3, 03/05/2021, 4.

Comm: 205914 Date: October 23, 2020 Drawn: Author Check: Checker

ELECTRICAL PANEL SCHEDULES

Scale:



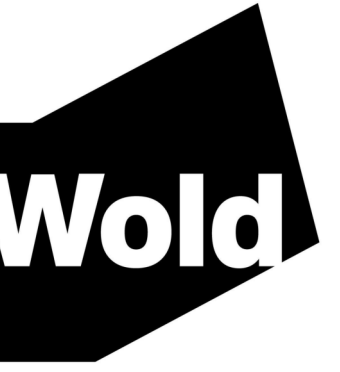


Table with columns: ELEC Name, Date, Description, Date, Num. Includes project details and revision history.

Comm: 205014 Date: October 23, 2020 Drawn: Author Check: Checker North

ELECTRICAL PANEL SCHEDULES

Scale:

Panel H1F EXISTING. Location: WEIGHT ROOM 1316. Voltage: 480/277 Wye. A.I.C. Rating: 35,000. Mains Type: MLO. Bus Rating: 225 A. Includes circuit notes and load schedule table.

Panel L1F. Location: WEIGHT ROOM 1316. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 250 A. Includes circuit notes and load schedule table.

Panel L1F1. Location: CORRIDOR 1324. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 400 A. Includes circuit notes and load schedule table.

Panel L1F2. Location: CORRIDOR 1324. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MLO. Bus Rating: 400 A. Includes circuit notes and load schedule table.

Panel L1F3. Location: WEIGHT ROOM 1316. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 150 A. Includes circuit notes and load schedule table.

Panel L1G. Location: ELEC 1133. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MLO. Bus Rating: 225 A. Includes circuit notes and load schedule table.

Panel HK1. Location: FOOD SERVICE 1224. Voltage: 480/277 Wye. A.I.C. Rating: 35,000. Mains Type: MLO. Bus Rating: 400 A. Includes circuit notes and load schedule table.

Panel LK1. Location: FOOD SERVICE 1224. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MLO. Bus Rating: 225 A. Includes circuit notes and load schedule table.

Panel LK2. Location: FOOD SERVICE 1224. Voltage: 120/208 Wye. A.I.C. Rating: 10,000. Mains Type: MCB. Bus Rating: 400 A. Includes circuit notes and load schedule table.

CO

E





Description	Revisions		Num
	Date		
PR 3	03/05/2021		4

Panel H2A														
Location: ELEC 2136				Voltage: 480/277 Wye				A.I.C. Rating: 14,000						
Supply From: MCB				Phase: 3				Mains Type: MLO						
Mounting: Surface				Wire: 4				Bus Rating: 225 A						
Enclosure: Type 1														
Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.														
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1	1	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 2 1
1	3	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 4 1
1	5	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 6 1
1	7	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 8 1
1	9	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 10 1
1	11	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 12 --
1	13	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 14 1
1	15	EXISTING LOAD	--	20 A	1			0 VA	0 VA			3 50 A	--	EXISTING LOAD 16 1
1	17	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 18 1
1	19	EXISTING LOAD	--	15 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 20 1
1	21	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 22 1
1	23	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 24 1
1	25	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 26 1
1	27	EXISTING LOAD	--	20 A	1			0 VA	0 VA			3 70 A	--	EXISTING LOAD 28 1
1	29	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 30 1
1	31	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 32 --
1	33	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 34 --
1	35	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 36 --
1	37	EXISTING LOAD	--	20 A	1	0 VA	0 VA					--	--	Space 38 --
1	39	EXISTING LOAD	--	20 A	1			0 VA	0 VA			--	--	Space 40 --
1	41	EXISTING LOAD	--	20 A	1			0 VA	0 VA			--	--	Space 42 --
Total Load:						0 VA	0 VA	0 VA	Total Amps:			0 A	0 A	0 A
Phase Balance:						% A-B	% B-C	% C-A						
Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals										
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1										
R Receptacle	0 VA	0.00%	0 VA	Total Connected Load: 0 VA										
M Motor	0 VA	0.00%	0 VA	Total Connected Current: 0 A										
C Continuous	0 VA	0.00%	0 VA	Total Demand Load: 0 VA										
G General	0 VA	0.00%	0 VA	Total Demand Current: 0 A										
K Kitchen	0 VA	0.00%	0 VA											
E Existing	0 VA	0.00%	0 VA											
O Other	0 VA	0.00%	0 VA											

Panel L2A														
Location: ELEC 2136				Voltage: 120/208 Wye				A.I.C. Rating: 10,000						
Supply From: MCB				Phase: 3				Mains Type: MLO						
Mounting: Surface				Wire: 4				Bus Rating: 225 A						
Enclosure: Type 1								MCB Rating: 150 A						
Circuit Notes: 1. GFI Breaker. 2. Reconnect existing load to same circuit position as in existing equipment. No new load added.														
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
2	1	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 2 2
2	3	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 4 2
2	5	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 6 2
1,2	7	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 8 2
1,2	9	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 10 2
1,2	11	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 12 2
2	13	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 14 2
2	15	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 16 2
2	17	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 18 2
2	19	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 20 2
2	21	EXISTING LOAD	--	20 A	1			0 VA	0 VA			2 50 A	--	EXISTING LOAD 22 2
2	23	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 24 2
2	25	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 26 2
2	27	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 28 2
2	29	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 30 2
2	31	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 32 2
1,2	33	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 34 2
1,2	35	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 36 1,2
1,2	37	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 38 2
1,2	39	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 40 2
1,2	41	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 42 2
--	43	UNUSEABLE SPACE	--	--	--	0 VA	0 VA					3 100 A	--	PANEL "L2A1" 46
--	45	UNUSEABLE SPACE	--	--	--	0 VA	0 VA					--	--	48
--	47	UNUSEABLE SPACE	--	--	--	0 VA	0 VA					--	--	48
Total Load:						0 VA	0 VA	0 VA	Total Amps:			0 A	0 A	0 A
Phase Balance:						% A-B	% B-C	% C-A						
Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals										
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1										
R Receptacle	0 VA	0.00%	0 VA	Total Connected Load: 0 VA										
M Motor	0 VA	0.00%	0 VA	Total Connected Current: 0 A										
C Continuous	0 VA	0.00%	0 VA	Total Demand Load: 0 VA										
G General	0 VA	0.00%	0 VA	Total Demand Current: 0 A										
K Kitchen	0 VA	0.00%	0 VA											
E Existing	0 VA	0.00%	0 VA											
O Other	0 VA	0.00%	0 VA											

Panel L2A1														
Location: ELEC 2136				Voltage: 120/208 Wye				A.I.C. Rating: 10,000						
Supply From: L2A				Phase: 3				Mains Type: MLO						
Mounting: Surface				Wire: 4				Bus Rating: 100 A						
Enclosure: Type 1														
Circuit Notes: 1. GFI Breaker. 2. Reconnect existing load to same circuit position as in existing equipment. No new load added.														
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1,2	1	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 2 2
1,2	3	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 4 2
1,2	5	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 6 2
1,2	7	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 8 2
1,2	9	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 10 2
1,2	11	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 12 2
1,2	13	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 14 2
1,2	15	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 16 2
2	17	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 18 1,2
2	19	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 20 1,2
2	21	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 22 1,2
2	23	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 24 1,2
2	25	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 26 2
2	27	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 28 2
2	29	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 30 2
2	31	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 32 2
2	33	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 34 2
2	35	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 36 2
2	37	EXISTING LOAD	--	20 A	1	0 VA	0 VA					1 20 A	--	EXISTING LOAD 38 2
2	39	EXISTING LOAD	--	20 A	1			0 VA	0 VA			1 20 A	--	EXISTING LOAD 40 2
2	41	EXISTING LOAD	--	20 A	1			0 VA	0 VA	0 VA	0 VA	1 20 A	--	EXISTING LOAD 42 2
Total Load:						0 VA	0 VA	0 VA	Total Amps:			0 A	0 A	0 A
Phase Balance:						% A-B	% B-C	% C-A						
Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals										
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1										
R Receptacle	0 VA	0.00%	0 VA	Total Connected Load: 0 VA										
M Motor	0 VA	0.00%	0 VA	Total Connected Current: 0 A										
C Continuous	0 VA	0.00%	0 VA	Total Demand Load: 0 VA										
G General	0 VA	0.00%	0 VA	Total Demand Current: 0 A										
K Kitchen	0 VA	0.00%	0 VA											
E Existing	0 VA	0.00%	0 VA											
O Other	0 VA	0.00%	0 VA											

Panel H2C											
Location: ELECTRICAL 2316				Voltage: 480/277 Wye				A.I.C. Rating: 35,000			
Supply From: MSD				Phase: 3				Mains Type: MLO			
Mounting: Surface				Wire: 4				Bus Rating: 400 A			
Enclosure: Type 1											
Circuit Notes: 1. Reconnect existing load to same circuit position as in existing equipment. No new load added.											