

Work Order Signature Document

ezIQc Buy Board Contract No.: 520-16 Area F - CCE

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New Work Order



Modify an Existing Work Order

Work Order Number.: 062091.00

Work Order Date: 12/13/2018

Work Order Title: Collin County - HVAC Replacement

Owner Name: BUY BOARD - Collin County

Contractor Name: Centennial Contractors

Contact: John Griffin

Contact: John Emershaw

Phone: 972-548-4116

Phone: (512) 796-8243

Work to be Performed

Work to be performed as per the Final Detailed Scope of Work Attached and as per the terms and conditions of ezIQc Buy Board Contract No 520-16 Area F - CCE.

Brief Work Order Description:

Time of Performance

Estimated Start Date: 01/14/2019

Estimated Completion Date: 07/31/2019

Liquidated Damages

Will apply:



Will not apply:



Work Order Firm Fixed Price: \$642,296.36

Owner Purchase Order Number: 62091

Approvals

Owner

Date

Contractor

Date

Detailed Scope of Work

To: John Emershaw
Centennial Contractors
11111 Sunset Hills Road, Suite 350
Reston, VA 20190
(512) 796-8243

From: John Griffin
BUY BOARD - Collin County
4300 Community
McKinney, TX 75071
972-548-4116

Date Printed: December 13, 2018

Work Order Number: 062091.00

Work Order Title: Collin County - HVAC Replacement

Brief Scope:

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Preliminary

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Revised

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Final

The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

Detailed Scope of Work:

1. Furnish and install all HVAC and Electrical equipment and materials per the drawings, specifications and two addendums provided.
2. All condensers shall be installed per the detail "Add Alternate 01".
3. Remove and reinstall accoustical ceiling assembly at each interior unit for access.
4. After Collin County reclaims the existing refrigerant, disconnect and remove the existing above ceiling AHU's and the roof top condensing units, purge the existing line sets and pneumatically test to insure integrity.
5. Provide new secondary drain pans as required for the above ceiling AHU's. Reuse if in good condition. Replace the AHU's and supporting condensing units per the schedule and specifications provided.
6. All service disconnects are to be replaced for the new condensing units and RTU's. Replace service disconnects for Bldg 920 AHU's as required. Reuse the existing conduit to the extent possible. Ensure conductor and circuit sizes are adequate for new equipment.
7. Owner has first right of refusal for existing equipment.
8. All debris to be removed from the project.
9. Payment & Performance Bond as well as 1 yr Maintenance Bond included.
10. Liquid Dated Damages in the amount of \$200 per day apply.
11. Project Duration will be 190 calander days.

ASSUMPTIONS/CLARIFICATIONS:

1. There are no hazardous substances or materials and a survey has been completed. No Abatement is included in this scope of work
2. All work is to be completed during regular business hours. No weekend work allowed on the interior of the facilities
3. The existing structural integrity of each facility in in good condition
4. Replace existing units with equal or lesser weights
5. Reuse existing isolators or provide neoprene isolators for AHU's. No spring isolators included
6. Owner to relocate any furniture or equipment

Detailed Scope of Work Continues..

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7. Owner to evacuate all refrigerant and dispose of accordingly
8. Reuse existing line sets after purging
9. Reuse existing electrical conduit and conductors as allowable
10. All controllers and EMS units are operating properly. If replacement is warranted allow \$1,032.00 per unit
11. Owner to program and bring new equipment back on line thru Front End
12. Existing thermostats and or sensors to be left in place. Reconnection to existing as applicable
13. Reuse and extend or relocate existing hanger and supports and vibration isolation as required
14. Assume existing electrical conduit and conductors are adequately sized per the drawings
15. Line set insulation is in good condition
16. Condensate drains are functioning properly
17. The proposal is based on the equipment as specified by the Mechanical Engineer
18. Personnel will be relocated as required for overhead work
19. Plans are approved by the City of Plano as submitted
20. Existing pitch pans are to remain in place and be reused
21. No smoke/fire detectors are present in existing equipment
22. Existing "Continuous Mechanical Pads" are existing and in good condition

EXCLUSIONS:

1. Sales tax
2. Design, engineered & stamp drawings
3. BIM / CAD
4. Shop drawings
5. Commissioning
6. No new EMS / DDC (HVAC Controls). Existing to be re-utilized
7. TAB (Air Balance)
8. Accelerated work schedule
9. Negative air / filtration & containment
- 10.

Subject to the terms and conditions of JOC Contract **520-16 Area F - CCE**.

Contractor

Date

Owner

Date

Contractor's Price Proposal - Summary

Date: December 13, 2018

Re: IQC Master Contract #: 520-16 Area F - CCE
Work Order #: 062091.00
Owner PO #: 62091
Title: Collin County - HVAC Replacement
Contractor: Centennial Contractors
Proposal Value: \$642,296.36

CARPENTRY	\$3,450.92
CONTROLS	\$31,521.55
ELEC	\$91,032.15
HVAC	\$479,908.70
No Category Input	\$9,750.00
ROOF	\$26,633.04
Proposal Total	\$642,296.36

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

Contractor's Price Proposal - Detail

Date: December 13, 2018

Re: IQC Master Contract #: 520-16 Area F - CCE
 Work Order #: 062091.00
 Owner PO #: 62091
 Title: Collin County - HVAC Replacement
 Contractor: Centennial Contractors
 Proposal Value: \$642,296.36

Sect.	Item	Mod.	UOM	Description	Line Total
Labor	Equip.	Material	(Excludes)		
CARPENTRY					
1	09 51 13 00 0019		SF	2' x 4' x 5/8" Mineral Fiber Acoustical Ceiling Panels	\$946.22
			Installation	Quantity 752.00 x Unit Price 1.02 x Factor 1.2336 = Total 946.22	
				ASSUME 25% REPLACEMENT	
2	09 51 13 00 0019 0098		MOD	For Individual Room Quantities <495, AddFor use with projects >500 SF	\$92.77
			Installation	Quantity 752.00 x Unit Price 0.10 x Factor 1.2336 = Total 92.77	
3	09 51 13 00 0035		SF	Remove And Reinstall Acoustical Ceiling Tile And Grid, 2' x 2' Or 2' x 4'	\$2,411.93
			Installation	Quantity 3,008.00 x Unit Price 0.65 x Factor 1.2336 = Total 2,411.93	
				ASSUME 8 X 8 AREA PER UNIT	
Subtotal for CARPENTRY					\$3,450.92
CONTROLS					
4	23 09 23 00 0023		EA	Install And Wire Room Sensor	\$2,490.21
			Installation	Quantity 47.00 x Unit Price 26.75 x Factor 1.2336 = Total 1,550.94	
			Demolition	47.00 x 16.20 x 1.2336 = 939.26	
5	23 09 23 00 0042		EA	Install And Wire Connection To Outdoor Compressor	\$15,878.76
			Installation	Quantity 47.00 x Unit Price 249.54 x Factor 1.2336 = Total 14,468.13	
			Demolition	47.00 x 24.33 x 1.2336 = 1,410.63	
6	23 09 23 00 0050		EA	Install And Wire Fan Coil Unit Controller	\$13,152.58
			Installation	Quantity 47.00 x Unit Price 178.24 x Factor 1.2336 = Total 10,334.21	
			Demolition	47.00 x 48.61 x 1.2336 = 2,818.37	
Subtotal for CONTROLS					\$31,521.55
ELEC					
7	26 01 20 00 0003		EA	Lock Out/Tag Out Breaker Or Motor Starter	\$1,252.35
			Installation	Quantity 94.00 x Unit Price 10.80 x Factor 1.2336 = Total 1,252.35	
8	26 01 20 00 0004		EA	Lock Out/Tag Out Tags	\$24.57
			Installation	Quantity 12.00 x Unit Price 1.66 x Factor 1.2336 = Total 24.57	
9	26 01 20 00 0006		EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	\$1,041.31
			Installation	Quantity 94.00 x Unit Price 8.98 x Factor 1.2336 = Total 1,041.31	

Contractor's Price Proposal - Detail Continues..

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ELEC

10	26	05	19	16	0276	MLF	#12 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit									\$2,230.88
							Installation	Quantity		Unit Price		Factor	=		Total	
								4.34	x	341.40	x	1.2336	=		1,827.80	
							Demolition	4.34	x	75.29	x	1.2336	=		403.09	
11	26	05	19	16	0277	MLF	#10 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit									\$1,570.62
							Installation	Quantity		Unit Price		Factor	=		Total	
								2.41	x	433.59	x	1.2336	=		1,289.05	
							Demolition	2.41	x	94.71	x	1.2336	=		281.57	
12	26	05	19	16	0278	MLF	#8 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit									\$26.24
							Installation	Quantity		Unit Price		Factor	=		Total	
								0.03	x	629.31	x	1.2336	=		21.89	
							Demolition	0.03	x	124.84	x	1.2336	=		4.34	
13	26	05	19	16	0279	MLF	#6 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit									\$1,717.83
							Installation	Quantity		Unit Price		Factor	=		Total	
								1.34	x	887.68	x	1.2336	=		1,468.45	
							Demolition	1.34	x	150.75	x	1.2336	=		249.38	
14	26	05	19	16	0280	MLF	#4 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit									\$68.62
							Installation	Quantity		Unit Price		Factor	=		Total	
								0.04	x	1,212.40	x	1.2336	=		59.82	
							Demolition	0.04	x	178.16	x	1.2336	=		8.79	
15	26	05	19	16	0283	MLF	#1 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit									\$88.71
							Installation	Quantity		Unit Price		Factor	=		Total	
								0.03	x	2,142.27	x	1.2336	=		79.28	
							Demolition	0.03	x	254.87	x	1.2336	=		9.43	
16	26	05	29	00	0080	EA	1/2", One Hole Steel Conduit Strap									\$298.43
							Installation	Quantity		Unit Price		Factor	=		Total	
								144.00	x	1.68	x	1.2336	=		298.43	
17	26	05	29	00	0080	0090	MOD	For Work In Restricted Working Space, Add								\$72.83
							Installation	Quantity		Unit Price		Factor	=		Total	
								144.00	x	0.41	x	1.2336	=		72.83	
18	26	05	29	00	0080	0094	MOD	For >100 To 250, Deduct								-\$26.65
							Installation	Quantity		Unit Price		Factor	=		Total	
								144.00	x	-0.15	x	1.2336	=		-26.65	
19	26	05	29	00	0254	EA	#10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw									\$228.71
							Installation	Quantity		Unit Price		Factor	=		Total	
								180.00	x	1.03	x	1.2336	=		228.71	
20	26	05	29	00	0254	0099	MOD	For >100 To 250, Deduct								-\$42.19
							Installation	Quantity		Unit Price		Factor	=		Total	
								180.00	x	-0.19	x	1.2336	=		-42.19	
21	26	05	29	00	0272	EA	10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor									\$268.68
							Installation	Quantity		Unit Price		Factor	=		Total	
								180.00	x	1.21	x	1.2336	=		268.68	

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22	26	05	29	00	0272		MOD	For >100 To 250, Deduct							-35.53
							Installation	Quantity 180.00	x	Unit Price -0.16	x	Factor 1.2336	=	Total -35.53	
23	26	05	33	13	0511		EA	1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing							\$1,083.05
							Installation	Quantity 188.00	x	Unit Price 4.67	x	Factor 1.2336	=	Total 1,083.05	
24	26	05	33	13	0511	0025	MOD	For Work In Restricted Working Space, Add							\$164.66
							Installation	Quantity 188.00	x	Unit Price 0.71	x	Factor 1.2336	=	Total 164.66	
25	26	05	33	13	0512		EA	3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing							\$641.23
							Installation	Quantity 92.00	x	Unit Price 5.65	x	Factor 1.2336	=	Total 641.23	
26	26	05	33	13	0512	0025	MOD	For Work In Restricted Working Space, Add							\$107.82
							Installation	Quantity 92.00	x	Unit Price 0.95	x	Factor 1.2336	=	Total 107.82	
27	26	05	33	13	0514		EA	1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing							\$24.84
							Installation	Quantity 2.00	x	Unit Price 10.07	x	Factor 1.2336	=	Total 24.84	
28	26	05	33	13	0514	0025	MOD	For Work In Restricted Working Space, Add							\$4.66
							Installation	Quantity 2.00	x	Unit Price 1.89	x	Factor 1.2336	=	Total 4.66	
29	26	05	33	13	0515		EA	1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing							\$28.00
							Installation	Quantity 2.00	x	Unit Price 11.35	x	Factor 1.2336	=	Total 28.00	
30	26	05	33	13	0515	0025	MOD	For Work In Restricted Working Space, Add							\$2.63
							Installation	Quantity 1.00	x	Unit Price 2.13	x	Factor 1.2336	=	Total 2.63	
31	26	05	33	13	0576		LF	1/2" Electrical Metallic Tubing (EMT) Conduit							\$3,064.26
							Installation	Quantity 900.00	x	Unit Price 2.05	x	Factor 1.2336	=	Total 2,275.99	
							Demolition	900.00	x	0.71	x	1.2336	=	788.27	
32	26	05	33	13	0576	0020	MOD	For >500 To 1,000, Deduct							-\$122.13
							Installation	Quantity 900.00	x	Unit Price -0.11	x	Factor 1.2336	=	Total -122.13	
33	26	05	33	13	0576	0025	MOD	For Work In Restricted Working Space, Add							\$588.43
							Installation	Quantity 900.00	x	Unit Price 0.53	x	Factor 1.2336	=	Total 588.43	
34	26	05	33	13	0609		EA	1/2 Electrical Metallic Tubing (EMT) Compression Coupling							\$316.42
							Installation	Quantity 90.00	x	Unit Price 2.85	x	Factor 1.2336	=	Total 316.42	
35	26	05	33	13	0609	0025	MOD	For Work In Restricted Working Space, Add							\$85.49
							Installation	Quantity 90.00	x	Unit Price 0.77	x	Factor 1.2336	=	Total 85.49	
36	26	05	33	13	0653		EA	1/2" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector							\$171.42
							Installation	Quantity 36.00	x	Unit Price 3.86	x	Factor 1.2336	=	Total 171.42	

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37	26	05	33	13 0653	0025	MOD	For Work In Restricted Working Space, Add					\$35.08
						Installation	Quantity		Unit Price		Factor	Total
							36.00	x	0.79	x	1.2336 =	35.08
38	26	05	33	13 2231		LF	1/2" Flexible Liquid Tight Metallic Conduit					\$840.82
						Installation	Quantity		Unit Price		Factor	Total
							240.00	x	2.37	x	1.2336 =	701.67
						Demolition	Quantity		Unit Price		Factor	Total
							240.00	x	0.47	x	1.2336 =	139.15
39	26	05	33	13 2232		LF	3/4" Flexible Liquid Tight Metallic Conduit					\$1,081.00
						Installation	Quantity		Unit Price		Factor	Total
							230.00	x	3.18	x	1.2336 =	902.26
						Demolition	Quantity		Unit Price		Factor	Total
							230.00	x	0.63	x	1.2336 =	178.75
40	26	05	33	13 2234		LF	1-1/4" Flexible Liquid Tight Metallic Conduit					\$64.89
						Installation	Quantity		Unit Price		Factor	Total
							10.00	x	5.26	x	1.2336 =	64.89
41	26	05	33	13 2235		LF	1-1/2" Flexible Liquid Tight Metallic Conduit					\$68.88
						Installation	Quantity		Unit Price		Factor	Total
							8.00	x	6.98	x	1.2336 =	68.88
42	26	05	33	13 2242		EA	1/2" Straight Liquid Tight Connector					\$180.01
						Installation	Quantity		Unit Price		Factor	Total
							24.00	x	6.08	x	1.2336 =	180.01
43	26	05	33	13 2243		EA	3/4" Straight Liquid Tight Connector					\$219.89
						Installation	Quantity		Unit Price		Factor	Total
							23.00	x	7.75	x	1.2336 =	219.89
44	26	05	33	13 2245		EA	1-1/4" Straight Liquid Tight Connector					\$19.31
						Installation	Quantity		Unit Price		Factor	Total
							1.00	x	15.65	x	1.2336 =	19.31
45	26	05	33	13 2246		EA	1-1/2" Straight Liquid Tight Connector					\$25.75
						Installation	Quantity		Unit Price		Factor	Total
							1.00	x	20.87	x	1.2336 =	25.75
46	26	05	33	13 2253		EA	1/2" 90 Degree Angle Liquid Tight Connector					\$291.62
						Installation	Quantity		Unit Price		Factor	Total
							24.00	x	9.85	x	1.2336 =	291.62
47	26	05	33	13 2254		EA	3/4" 90 Degree Angle Liquid Tight Connector					\$322.32
						Installation	Quantity		Unit Price		Factor	Total
							23.00	x	11.36	x	1.2336 =	322.32
48	26	05	33	13 2256		EA	1-1/4" 90 Degree Angle Liquid Tight Connector					\$29.08
						Installation	Quantity		Unit Price		Factor	Total
							1.00	x	23.57	x	1.2336 =	29.08
49	26	05	33	13 2257		EA	1-1/2" 90 Degree Angle Liquid Tight Connector					\$36.70
						Installation	Quantity		Unit Price		Factor	Total
							1.00	x	29.75	x	1.2336 =	36.70
50	26	05	33	13 2272		LF	1/2" Flexible Metallic Conduit					\$1,800.07
						Installation	Quantity		Unit Price		Factor	Total
							608.00	x	1.89	x	1.2336 =	1,417.55
						Demolition	Quantity		Unit Price		Factor	Total
							608.00	x	0.51	x	1.2336 =	382.51

Contractor's Price Proposal - Detail Continues..

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ELEC

51	26	05	33	13	2272	0047	MOD	For Work In Restricted Working Space, Add											\$292.51
							Installation		Quantity		Unit Price		Factor	=	Total				
									608.00	x	0.39	x	1.2336	=	292.51				
52	26	05	33	13	2273		LF	3/4" Flexible Metallic Conduit											\$822.81
							Installation		Quantity		Unit Price		Factor	=	Total				
									230.00	x	2.21	x	1.2336	=	627.04				
							Demolition		230.00	x	0.69	x	1.2336	=	195.77				
53	26	05	33	13	2273	0047	MOD	For Work In Restricted Working Space, Add											\$119.17
							Installation		Quantity		Unit Price		Factor	=	Total				
									230.00	x	0.42	x	1.2336	=	119.17				
54	26	05	33	13	2295		EA	1/2" Flexible Straight Connectors, Insulated											\$436.08
							Installation		Quantity		Unit Price		Factor	=	Total				
									70.00	x	5.05	x	1.2336	=	436.08				
55	26	05	33	13	2295	0047	MOD	For Work In Restricted Working Space, Add											\$56.13
							Installation		Quantity		Unit Price		Factor	=	Total				
									70.00	x	0.65	x	1.2336	=	56.13				
56	26	05	33	13	2296		EA	3/4" Flexible Straight Connectors, Insulated											\$165.41
							Installation		Quantity		Unit Price		Factor	=	Total				
									23.00	x	5.83	x	1.2336	=	165.41				
57	26	05	33	13	2296	0047	MOD	For Work In Restricted Working Space, Add											\$21.85
							Installation		Quantity		Unit Price		Factor	=	Total				
									23.00	x	0.77	x	1.2336	=	21.85				
58	26	05	33	13	2330		EA	1/2" Flexible 45 Degree Connector, Plain											\$689.95
							Installation		Quantity		Unit Price		Factor	=	Total				
									70.00	x	7.99	x	1.2336	=	689.95				
59	26	05	33	13	2330	0047	MOD	For Work In Restricted Working Space, Add											\$77.72
							Installation		Quantity		Unit Price		Factor	=	Total				
									70.00	x	0.90	x	1.2336	=	77.72				
60	26	05	33	13	2331		EA	3/4" Flexible 45 Degree Connector, Plain											\$301.89
							Installation		Quantity		Unit Price		Factor	=	Total				
									23.00	x	10.64	x	1.2336	=	301.89				
61	26	05	33	13	2331	0047	MOD	For Work In Restricted Working Space, Add											\$29.22
							Installation		Quantity		Unit Price		Factor	=	Total				
									23.00	x	1.03	x	1.2336	=	29.22				
62	26	05	33	16	0007		EA	2-1/8" Depth, 4" Square Steel Extension Ring											\$218.50
							Installation		Quantity		Unit Price		Factor	=	Total				
									18.00	x	9.84	x	1.2336	=	218.50				
63	26	05	33	16	0034		EA	Flat, 4" Square Steel Exposed Work Cover											\$109.03
							Installation		Quantity		Unit Price		Factor	=	Total				
									18.00	x	4.91	x	1.2336	=	109.03				
64	26	05	33	16	0173		EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum BoxOne hub.											\$946.59
							Installation		Quantity		Unit Price		Factor	=	Total				
									18.00	x	42.63	x	1.2336	=	946.59				
65	26	05	53	00	0019		EA	Labeling Wire											\$654.01
							Installation		Quantity		Unit Price		Factor	=	Total				
									564.00	x	0.94	x	1.2336	=	654.01				

Contractor's Price Proposal - Detail Continues..

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ELEC									
66	26	05	83	00	0132	EA	<1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing		\$2,211.33
							Quantity	Unit Price	Factor = Total
						Installation	47.00 x	27.37 x	1.2336 = 1,586.89
						Demolition	47.00 x	10.77 x	1.2336 = 624.44
67	26	05	83	00	0147	EA	2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing		\$136.29
							Quantity	Unit Price	Factor = Total
						Installation	2.00 x	39.09 x	1.2336 = 96.44
						Demolition	2.00 x	16.15 x	1.2336 = 39.85
68	26	24	19	00	0868	EA	15 A / 2 Pole - 50 A / 2 Pole Bolt-On Branch Circuit Breaker		\$999.51
							Quantity	Unit Price	Factor = Total
						Installation	24.00 x	33.76 x	1.2336 = 999.51
69	26	24	19	00	0869	EA	60 A / 2 Pole - 100 A / 2 Pole Bolt-On Branch Circuit Breaker		\$6,712.14
							Quantity	Unit Price	Factor = Total
						Installation	70.00 x	77.73 x	1.2336 = 6,712.14
70	26	27	16	00	0431	EA	3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters		\$773.44
							Quantity	Unit Price	Factor = Total
						Installation	94.00 x	6.67 x	1.2336 = 773.44
71	26	27	26	00	0070	EA	20 Amp, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle		\$583.10
							Quantity	Unit Price	Factor = Total
						Installation	18.00 x	26.26 x	1.2336 = 583.10
72	26	28	16	00	0014	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch		\$10,670.32
							Quantity	Unit Price	Factor = Total
						Installation	22.00 x	345.31 x	1.2336 = 9,371.44
						Demolition	22.00 x	47.86 x	1.2336 = 1,298.88
							FOR BLDG 920 ONLY		
73	26	28	16	00	0164	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch		\$19,391.30
							Quantity	Unit Price	Factor = Total
						Installation	24.00 x	587.52 x	1.2336 = 17,394.35
						Demolition	24.00 x	67.45 x	1.2336 = 1,996.95
74	26	28	16	00	0165	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch		\$22,108.09
							Quantity	Unit Price	Factor = Total
						Installation	23.00 x	696.50 x	1.2336 = 19,761.66
						Demolition	23.00 x	82.70 x	1.2336 = 2,346.43
75	26	28	16	00	0181	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch		\$1,084.06
							Quantity	Unit Price	Factor = Total
						Installation	1.00 x	763.00 x	1.2336 = 941.24
						Demolition	1.00 x	115.78 x	1.2336 = 142.83
76	26	28	16	00	0182	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch		\$1,460.09
							Quantity	Unit Price	Factor = Total
						Installation	1.00 x	1,050.68 x	1.2336 = 1,296.12
						Demolition	1.00 x	132.92 x	1.2336 = 163.97

Subtotal for ELEC \$91,032.15

HVAC

Contractor's Price Proposal - Detail Continues..

Work Order Number: 062091.00

Work Order Title: Collin County - HVAC Replacement

HVAC

77	22	07	19	00	0527	LF	1" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation									\$12,210.42
							Installation	Quantity		Unit Price		Factor	=		Total	
								1,410.00	x	5.36	x	1.2336	=		9,323.06	
							Demolition	1,410.00	x	1.66	x	1.2336	=		2,887.36	
							AHU CONDENSATE AND REFRIGERANT PIPE INSULATION									
78	22	07	19	00	0527	0040	MOD	For Work In Restricted Working Space, Add								\$869.69
							Installation	Quantity		Unit Price		Factor	=		Total	
								705.00	x	1.00	x	1.2336	=		869.69	
79	22	11	16	00	0382	LF	1" Hard Drawn Type M Copper Tube/Pipe									\$3,130.88
							Installation	Quantity		Unit Price		Factor	=		Total	
								470.00	x	4.29	x	1.2336	=		2,487.31	
							Demolition	470.00	x	1.11	x	1.2336	=		643.57	
							AHU CONDENSATE PIPE 10' REPLACEMENT PER UNIT									
80	22	11	16	00	0382	0021	MOD	For Work In Restricted Working Space, Add								\$289.90
							Installation	Quantity		Unit Price		Factor	=		Total	
								470.00	x	0.50	x	1.2336	=		289.90	
81	22	11	16	00	0383	LF	1-1/4" Hard Drawn Type M Copper Tube/Pipe									\$161.85
							Installation	Quantity		Unit Price		Factor	=		Total	
								20.00	x	6.56	x	1.2336	=		161.85	
							RTU CONDENSATE PIPING									
82	22	11	16	00	0420	EA	1" 90 Degree Copper Elbow									\$4,487.59
							Installation	Quantity		Unit Price		Factor	=		Total	
								141.00	x	25.80	x	1.2336	=		4,487.59	
							AHU'S									
83	22	11	16	00	0420	0021	MOD	For Work In Restricted Working Space, Add								\$1,238.44
							Installation	Quantity		Unit Price		Factor	=		Total	
								141.00	x	7.12	x	1.2336	=		1,238.44	
84	22	11	16	00	0421	EA	1-1/4" 90 Degree Copper Elbow									\$496.87
							Installation	Quantity		Unit Price		Factor	=		Total	
								14.00	x	28.77	x	1.2336	=		496.87	
							RTU CONDENSATE ELLS - INCLUDES TRAPS									
85	22	11	16	00	0465	EA	1" Straight Copper Tee									\$2,448.08
							Installation	Quantity		Unit Price		Factor	=		Total	
								49.00	x	40.50	x	1.2336	=		2,448.08	
							AHU'S									
86	22	11	16	00	0465	0021	MOD	For Work In Restricted Working Space, Add								\$649.80
							Installation	Quantity		Unit Price		Factor	=		Total	
								49.00	x	10.75	x	1.2336	=		649.80	
87	22	11	16	00	0492	EA	1" Copper Coupling									\$1,493.03
							Installation	Quantity		Unit Price		Factor	=		Total	
								49.00	x	24.70	x	1.2336	=		1,493.03	
							AHU'S									
88	22	11	16	00	0492	0021	MOD	For Work In Restricted Working Space, Add								\$430.38
							Installation	Quantity		Unit Price		Factor	=		Total	
								49.00	x	7.12	x	1.2336	=		430.38	

Contractor's Price Proposal - Detail Continues..

Work Order Number: 062091.00

Work Order Title: Collin County - HVAC Replacement

HVAC

89	22	11	16	00	0533	EA	1" Female Copper Adapter											\$2,249.59
							Installation	Quantity	Unit Price	Factor	=	Total						
								47.00	24.76	x		1,435.56						
							Demolition	47.00	14.04	x		814.03						
							AHU DRAIN PAN CONNECTIONS											
90	22	11	16	00	0533	0021	MOD	For Work In Restricted Working Space, Add										\$362.37
							Installation	Quantity	Unit Price	Factor	=	Total						
								47.00	6.25	x		362.37						
91	22	11	16	00	0534		EA	1-1/4" Female Copper Adapter										\$73.97
							Installation	Quantity	Unit Price	Factor	=	Total						
								2.00	29.98	x		73.97						
							RTU'S											
92	22	11	16	00	0728		EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe										\$561.24
							Installation	Quantity	Unit Price	Factor	=	Total						
								94.00	4.84	x		561.24						
							AHU LIQUID LINES											
93	22	11	16	00	0730		EA	1", Cut And Prepare Existing In Place Copper Pipe										\$683.00
							Installation	Quantity	Unit Price	Factor	=	Total						
								94.00	5.89	x		682.99						
							AHU SUCTION LINES											
94	22	33	30	16	0030		EA	28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan										\$4,602.39
							Installation	Quantity	Unit Price	Factor	=	Total						
								141.00	26.46	x		4,602.39						
							USE FOR SECONDARY DRAIN PANS TIMES THREE FOR SIZE											
95	23	01	20	00	0026		EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Liquid System										\$18,482.61
							Installation	Quantity	Unit Price	Factor	=	Total						
								94.00	159.39	x		18,482.61						
							PURGE AHU LIQUID AND SUCTION LINES											
96	23	05	19	00	0068		EA	3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100)										\$5,029.70
							Installation	Quantity	Unit Price	Factor	=	Total						
								47.00	86.75	x		5,029.70						
							SIGHT GLASSES											
97	23	05	29	00	0461		EA	9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT)										\$3,857.84
							Installation	Quantity	Unit Price	Factor	=	Total						
								55.00	56.86	x		3,857.84						
							ROOF PIPE SUPPORTS											
98	23	05	29	00	1082		EA	1-1/2" Standard Duty Clevis Pipe Hanger AssemblyIncludes hanger, rod, nuts, washers and clamp.										\$1,535.29
							Installation	Quantity	Unit Price	Factor	=	Total						
								47.00	26.48	x		1,535.29						
							ABOVE CEILING PIPE SUPPORTS											
99	23	05	29	00	1082	0028	MOD	For Work In Restricted Working Space, Add										\$314.25
							Installation	Quantity	Unit Price	Factor	=	Total						
								47.00	5.42	x		314.25						
100	23	05	53	00	0041		EA	1-1/2" Diameter Identification Tag, Plastic										\$583.84
							Installation	Quantity	Unit Price	Factor	=	Total						
								96.00	4.93	x		583.84						
							LABEL UNITS											

Contractor's Price Proposal - Detail Continues..

Work Order Number: 062091.00

Work Order Title: Collin County - HVAC Replacement

HVAC

101	23	05	93	00	0097	EA	Up To 100', Up To 1-1/2" Piping, Pneumatic TestingIncludes soaping joints.									\$21,033.11
						Installation	Quantity	Unit Price	Factor	=	Total					
							47.00	x 362.77	x 1.2336	=	21,033.11					
							PRESSURE TEST SUCTION PIPING									
102	23	07	13	00	0014	SF	1-1/2" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation									\$8,089.26
						Installation	Quantity	Unit Price	Factor	=	Total					
							1,504.00	x 2.59	x 1.2336	=	4,805.32					
						Demolition	Quantity	Unit Price	Factor	=	Total					
							1,504.00	x 1.77	x 1.2336	=	3,283.94					
							DUCT INSULATION - ASSUME 4' PER UNIT									
103	23	07	13	00	0014	0154	MOD	For Work In Restricted Working Space, Add								\$1,020.43
						Installation	Quantity	Unit Price	Factor	=	Total					
							1,504.00	x 0.55	x 1.2336	=	1,020.43					
104	23	23	16	00	0015	LF	3/8" Outside Diameter Type L Drawn, ACR Copper Tubing									\$4,870.25
						Installation	Quantity	Unit Price	Factor	=	Total					
							940.00	x 2.84	x 1.2336	=	3,293.22					
						Demolition	Quantity	Unit Price	Factor	=	Total					
							940.00	x 1.36	x 1.2336	=	1,577.03					
105	23	23	16	00	0019	LF	7/8" Outside Diameter Type L Drawn, ACR Copper Tubing									\$8,905.61
						Installation	Quantity	Unit Price	Factor	=	Total					
							940.00	x 5.50	x 1.2336	=	6,377.71					
						Demolition	Quantity	Unit Price	Factor	=	Total					
							940.00	x 2.18	x 1.2336	=	2,527.89					
106	23	23	16	00	0176	EA	7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections									\$6,069.84
						Installation	Quantity	Unit Price	Factor	=	Total					
							47.00	x 104.69	x 1.2336	=	6,069.84					
							REFRIGERANT DRYERS									
107	23	31	13	13	0003	LB	Sheet Metal Ductwork, Low Pressure, Field Fabricated, Galvanized, Field Assemble And Install									\$22,274.28
						Installation	Quantity	Unit Price	Factor	=	Total					
							2,848.00	x 5.12	x 1.2336	=	17,988.06					
						Demolition	Quantity	Unit Price	Factor	=	Total					
							2,848.00	x 1.22	x 1.2336	=	4,286.22					
							AHU DUCT - ASSUME 4' PER UNIT EACH SIDE									
108	23	31	13	13	0003	0377	MOD	For >2,000 To 5,000, Add								\$667.53
						Installation	Quantity	Unit Price	Factor	=	Total					
							2,848.00	x 0.19	x 1.2336	=	667.53					
109	23	31	13	13	0003	0386	MOD	For Work In Restricted Working Space, Add								\$4,215.95
						Installation	Quantity	Unit Price	Factor	=	Total					
							2,848.00	x 1.20	x 1.2336	=	4,215.95					
110	23	33	43	00	0001	LF	Flex Duct Connector, Fabric/Sheet Metal									\$6,771.97
						Installation	Quantity	Unit Price	Factor	=	Total					
							752.00	x 5.84	x 1.2336	=	5,417.58					
						Demolition	Quantity	Unit Price	Factor	=	Total					
							752.00	x 1.46	x 1.2336	=	1,354.39					
111	23	37	13	00	0309	EA	Remove And Reinstall Lay-in Diffuser/Register/Grille									\$1,750.97
						Installation	Quantity	Unit Price	Factor	=	Total					
							94.00	x 15.10	x 1.2336	=	1,750.97					
							ASSUME TWO PER UNIT									
112	23	74	13	00	0005	EA	4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop UnitElectric load approximately 1/2 the cooling capacity.									\$6,199.93
						Installation	Quantity	Unit Price	Factor	=	Total					
							1.00	x 4,780.94	x 1.2336	=	5,897.77					
						Demolition	Quantity	Unit Price	Factor	=	Total					
							1.00	x 244.94	x 1.2336	=	302.16					

Contractor's Price Proposal - Detail Continues..

Work Order Number: 062091.00
Work Order Title: Collin County - HVAC Replacement

HVAC

113	23	74	13	00	0005	0235	MOD	For Equipment Base Roof Curbs, Add									\$457.44
							Installation	Quantity	Unit Price	Factor	=	Total					
								1.00	x	370.82	x	1.2336	=	457.44			
114	23	74	13	00	0007		EA	7-1/2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop UnitElectric load approximately 1/2 the cooling capacity.									\$10,456.08
							Installation	Quantity	Unit Price	Factor	=	Total					
								1.00	x	8,176.70	x	1.2336	=	10,086.78			
							Demolition	1.00	x	299.37	x	1.2336	=	369.30			
115	23	74	13	00	0007	0234	MOD	For Unit Economizer, Add									\$1,195.64
							Installation	Quantity	Unit Price	Factor	=	Total					
								1.00	x	969.23	x	1.2336	=	1,195.64			
116	23	74	13	00	0007	0235	MOD	For Equipment Base Roof Curbs, Add									\$774.97
							Installation	Quantity	Unit Price	Factor	=	Total					
								1.00	x	628.22	x	1.2336	=	774.97			
117	23	81	49	00	0050		EA	24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat PumpsIncludes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.									\$51,951.34
							Installation	Quantity	Unit Price	Factor	=	Total					
								10.00	x	3,977.97	x	1.2336	=	49,072.24			
							Demolition	10.00	x	233.39	x	1.2336	=	2,879.10			
								USE FOR SPECIFIED AHU'S AND CONDENSERS 1-1/2 & 2 TON UNITS									
118	23	81	49	00	0051		EA	32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat PumpsIncludes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.									\$90,069.15
							Installation	Quantity	Unit Price	Factor	=	Total					
								15.00	x	4,610.36	x	1.2336	=	85,310.10			
							Demolition	15.00	x	257.19	x	1.2336	=	4,759.04			
								USE FOR SPECIFIED AHU'S AND CONDENSERS 2-1/2 & 3-1/2 TON UNITS									
119	23	81	49	00	0052		EA	39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat PumpsIncludes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.									\$166,243.88
							Installation	Quantity	Unit Price	Factor	=	Total					
								22.00	x	5,856.29	x	1.2336	=	158,935.03			
							Demolition	22.00	x	269.31	x	1.2336	=	7,308.86			
								USE FOR SPECIFIED AHU'S AND CONDENSERS 4 & 5 TON UNITS									
120	26	05	23	00	0022		MLF	#18/6 Conductor, Low Volt Thermostat Cable									\$648.05
							Installation	Quantity	Unit Price	Factor	=	Total					
								1.00	x	464.29	x	1.2336	=	572.75			
							Demolition	1.00	x	61.04	x	1.2336	=	75.30			

Subtotal for HVAC **\$479,908.70**

No Category Input

Contractor's Price Proposal - Detail Continues..

Work Order Number: 062091.00
Work Order Title: Collin County - HVAC Replacement

No Category Input

121	01 22 16 00 0002	EA	Reimbursable FeesReimbursable Fees will be paid to the contractor for eligible costs. The base cost of the Reimbursable Fee is \$1.00. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.				\$9,750.00
		Installation	Quantity	Unit Price	Factor	Total	
			9,750.00	x 1.00	x 1.0000	= 9,750.00	
		PERMIT FEES					

Subtotal for No Category Input **\$9,750.00**

ROOF

122	06 13 23 00 0036	LF	4" x 4", Pressure Treated, Heavy Timber Beam				\$1,234.96
		Installation	Quantity	Unit Price	Factor	Total	
			282.00	x 2.75	x 1.2336	= 956.66	
		Demolition	282.00	x 0.80	x 1.2336	= 278.30	
		4 X 4 TREATED FOR CONDENSERS PER ALT DETAIL					
123	07 05 13 00 0003	EA	Labor Crew Up-Charge For >1 To 2 SQ				\$11,381.61
		Installation	Quantity	Unit Price	Factor	Total	
			23.50	x 392.61	x 1.2336	= 11,381.61	
		UPCHARGE FOR MULTIPLE TRIPS - ASSUME 2 LOCATIONS PER					
124	07 62 00 00 0194	SF	26 Gauge, Galvanized Steel Flashing				\$5,065.06
		Installation	Quantity	Unit Price	Factor	Total	
			564.00	x 7.28	x 1.2336	= 5,065.06	
		TOP CAP FOR 4 X 4'S					
125	07 71 13 00 0003	LF	10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats				\$5,778.21
		Installation	Quantity	Unit Price	Factor	Total	
			282.00	x 16.61	x 1.2336	= 5,778.21	
		USE FOR 4 X 4 BOTTOM FLASHING PER DETAIL					
126	23 05 29 00 1070	EA	36" x 36" Molded Plastic Pad				\$3,173.20
		Installation	Quantity	Unit Price	Factor	Total	
			47.00	x 54.73	x 1.2336	= 3,173.20	
		TRAFFIC PADS					

Subtotal for ROOF **\$26,633.04**

Proposal Total **\$642,296.36**

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

Subcontractor Listing

Date: December 13, 2018

Re: IQC Master Contract #: 520-16 Area F - CCE
Work Order #: 062091.00
Owner PO #: 62091
Title: Collin County - HVAC Replacement
Contractor: Centennial Contractors
Proposal Value: \$642,296.36

Name of Contractor	Duties	Amount	%
No Subcontractors have been selected for this Work Order		\$0.00	0.00