City of Parma Heights
Mayor's Caucus

6281 Pearl Road

Monday, April 28, 2025
6:15 PM

1. CDBG Acceptance Resolution – Director Schneider
2. CDSG Acceptance Resolution – Director Schneider
3. Solid Waste Management Plan Adoption Resolution
4. Bond Issuance Discussion – Vic Nogalo
5. Boiler Purchase Resolution – Director Sepik
6. Adjournment

CITY HALL WILL BE OPEN FOR THE MAYOR'S CAUCUS MEETING

RESOLUTION NO. 2025 -

A RESOLUTION AUTHORIZING AND DIRECTING THE ADMINISTRATION TO ENTER INTO A WORK ORDER AGREEMENT WITH THE BREWER GARRETT COMPANY, THROUGH SOURCEWELL, AND AUTHORIZING AND DIRECTING AN EXPENDITURE FOR THE PURCHASE AND INSTALLATION OF A HOT WATER BOILER FOR THE PARMA HEIGHTS FIRE DEPARTMENT, AND DECLARING AN EMERGENCY

WHEREAS, the Council authorized membership in the National Joint Power Alliance [now known as Sourcewell], a purchasing cooperative in Ordinance No. 2017-3; and

WHEREAS, the work order agreement for the purchase and installation of a hot water boiler from The Brewer Garrett Company dated April 11, 2025, listed as Exhibit "A", attached hereto, and made a part hereof as though fully rewritten, was obtained through the National Joint Power Alliance [now known as Sourcewell]; and

WHEREAS, Council may authorize the Agreement through the City's membership in the National Joint Power Alliance [now known as Sourcewell], a purchasing cooperative, pursuant to Article V Sections 1 and 6 of the Charter, and Ohio Revised Code Section 9.48 without a competitive bidding process.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Parma Heights, County of Cuyahoga and State of Ohio:

Section 1: The Administration is hereby authorized and directed to enter into a work order agreement with The Brewer Garrett Company, and to expend funds in the amount of $92,260.98, in the form identified as Exhibit "A" attached hereto, and made a part hereof as though fully rewritten, for the purchase and installation of a hot water boiler for the Parma Heights Fire Department.

Section 2: This Council finds and determines that all formal actions of this Council concerning and relating to the adoption of this Resolution were taken in an open meeting of this Council and that all deliberations of the Council and of any of its Committees comprised of a majority of the members of the Council that resulted in those formal actions were in meetings open to the public, in compliance with the law.

Section 3**:** This Council declares this Resolution to be an emergency measure for the immediate preservation of the public health, peace, and safety of this Municipality and for the further reason that it is necessary to replace the hot water boiler at the Fire Department as soon as possible; wherefore, this Resolution shall be in full force and effect immediately after its passage by Council and approval of the Mayor.

PASSED: _____ _____
PRESIDENT OF COUNCIL

ATTEST: _____ _____
CLERK OF COUNCIL APPROVED

FILED WITH
THE MAYOR: _____ _____
MAYOR MARIE GALLO

DRAFT

EXHIBIT A

GORDIAN®

Work Order Signature Document

EZIQC Contract No.: OH-R2-HVAC-071124

[X] **New Work Order** [ ] **Modify an Existing Work Order**

Work Order Number: 141040.00 Work Order Date: 04/11/2025

Work Order Title: Parma Heights Fire Station Boiler Replacement

Owner Name:	OHIO - City of Parma Heights -	Contractor Name:	The Brewer Garrett Company
Contact:	Pete DiFranco	Contact:	Tadhg O'Crowley
Phone:	216.377.3813	Phone:	

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 Contract No OH-R2-HVAC-071124.

Brief Work Order Description:

Replace boiler at fire station. Options for in-kind replacement or two stage model were discussed and to be discussed ahead of proposal building.

Time of Performance

Liquidated Damages Will apply: [ ] Will not apply: [X]

Work Order Firm Fixed Price: $92,260.98

Owner Purchase Order Number:

Approvals

Owner Date Contractor Date

DRAFT

Detailed Scope of Work

To:	Tadhg O'Crowley Brewer Garrett No Data Input No Data Input, No Data Input	**From:**	Pete DiFranco OHIO - City of Parma Heights 6281 Pearl Road Parma Heights, OH 44130 216.377.3813

Date Printed: April 11, 2025

Work Order Number: 141040.00

Work Order Title: Parma Heights Fire Station Boiler Replacement

Brief Scope: Replace boiler at fire station. Options for in-kind replacement or two stage model were discussed and to be discussed ahead of proposal building.

☐ **Preliminary** ☐ **Revised** ☒ **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.

Brewer-Garrett will install a single replacement boiler at the Parma Heights Police Station to replace the existing heating hot water boiler. The new boiler will match the existing boiler output as closely as possible. Existing boiler will be demolished completely. The heating hot water, gas, relief, vent and drain piping will be demolished back to valve or first elbow, whichever is adequate for installation of new boiler. The flue piping will also be demolished back to first elbow.

New boiler to match existing will be installed on existing equipment pad. New heating hot water piping, flue, relief, gas train, and vent will be connected to the new boiler from the existing system. All heating hot water piping will be insulated with standard fiberglass insulation. Electrical power will be disconnected and reworked to match the footprint of the new boiler. The new boiler will operate with local controls that will enable the boiler and include the required temperature sensors and pump enabling. After the project is complete Brewer-Garrett will provide startup of the new boiler and project O&M documents.

Included:
New flue
Local temperature controls
Insulation
Water balancing
Electrical power
New HHW Boiler to match existing
Pipefitting
Startup
1-year parts and labor warranty
Project management
Bond
Dumpsters
1st Shift M-F 7:30-3:30

DRAFT

Detailed Scope of Work Continues..

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

Excluded:
Permits
Stamped engineered drawings
General trades (preliminary review did not seem to require any)
New equipment pad
Taxes
Temporary bathroom facilities
Fire alarm
MBE/FBE or minority/local participation
Hazardous material testing or abatement
Chemical treatment
Roofing
Structural

Contractor _____ Date _____

Owner _____ Date _____

DRAFT

Contractor's Price Proposal - Summary

Date: April 11, 2025

Re:

IQC Master Contract #:	OH-R2-HVAC-071124
Work Order #:	141040.00
Owner PO #:	
Title:	Parma Heights Fire Station Boiler Replacement
Contractor:	The Brewer Garrett Company
Proposal Value:	$92,260.98

.01 Bond	**$1,096.50**
Control	**$6,883.77**
Electrical	**$2,347.60**
Electrical Design Services	**$4,476.86**
Equipment	**$32,645.15**
Insulation	**$846.90**
Material Hauling	**$4,351.47**
Mechanical Design Services	**$5,125.07**
Pipefitting	**$27,194.52**
Sheet Metal	**$5,936.81**
Water Balance	**$1,356.33**
Proposal Total	**$92,260.98**

The Percentage of NPP on this Proposal: **%**

Contractor's Price Proposal - Detail

Date: April 11, 2025

Re:
IQC Master Contract #: OH-R2-HVAC-071124
Work Order #: 141040.00
Owner PO #:
Title: Parma Heights Fire Station Boiler Replacement
Contractor: The Brewer Garrett Company
Proposal Value: $92,260.98

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

.01 Bond

1 01 22 16 00 0002 — EA — Reimbursable FeesReimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual 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 warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal. — $1,096.50

	Quantity		Unit Price		Factor	=	Total
Installation	905.00	x	1.00	x	1.2116	=	1,096.50

Bond

Subtotal for .01 Bond **$1,096.50**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Control

2 23 09 23 27 0011 — EA — 10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-O24) — $286.07

	Quantity		Unit Price		Factor	=	Total
Installation	1.00	x	236.11	x	1.2116	=	286.07

Local control setup

3 23 09 23 27 0017 — EA — 5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001) — $307.04

	Quantity		Unit Price		Factor	=	Total
Installation	2.00	x	126.71	x	1.2116	=	307.04

Local control setup

4 23 09 23 53 0035 — HR — EMCS Site Inspection Of Existing Facilities — $468.28

	Quantity		Unit Price		Factor	=	Total
Installation	2.00	x	193.25	x	1.2116	=	468.28

Local control setup

5 23 09 23 53 0036 — HR — EMCS Engineering Project Management — $936.57

	Quantity		Unit Price		Factor	=	Total
Installation	4.00	x	193.25	x	1.2116	=	936.57

Local control setup

6 23 09 23 53 0037 — HR — EMCS System Engineering, Schematic Design And Layout — $496.66

	Quantity		Unit Price		Factor	=	Total
Installation	2.00	x	204.96	x	1.2116	=	496.66

Local control setup

7 23 09 23 53 0041 — HR — EMCS On Site System Diagnostics Field Technician — $1,873.13

	Quantity		Unit Price		Factor	=	Total
Installation	8.00	x	193.25	x	1.2116	=	1,873.13

Local control setup

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Control

8	23 09 23	53 0043		HR	EMCS Travel Time (All Personnel)								$809.06
						Quantity		Unit Price		Factor	=	Total	
					Installation	4.00	x	166.94	x	1.2116	=	809.06	
					Local control setup								
9	23 09 23	53 0045		PNT	EMCS Functional Performance Tests (Field Based Tests / Trend Analysis)Priced per controller. Task used after warranty period only.								$117.67
						Quantity		Unit Price		Factor	=	Total	
					Installation	4.00	x	24.28	x	1.2116	=	117.67	
					Local control setup								
10	23 09 23	53 0049		PNT	EMCS Field TestPriced per point.								$248.43
						Quantity		Unit Price		Factor	=	Total	
					Installation	2.00	x	102.52	x	1.2116	=	248.43	
					Local control setup								
11	23 09 23	53 0051		PNT	EMCS Field CommissioningPriced per point.								$993.71
						Quantity		Unit Price		Factor	=	Total	
					Installation	8.00	x	102.52	x	1.2116	=	993.71	
					Local control setup								
12	26 27 26	00 0349		EA	10 Amperes, 24 Volt Coil, 2 Position Relay								$347.15
						Quantity		Unit Price		Factor	=	Total	
					Installation	4.00	x	71.63	x	1.2116	=	347.15	
					Local control setup								

Subtotal for Control **$6,883.77**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Electrical

13	26 01 20	91 0003		EA	Lock Out/Tag Out Breaker Or Motor StarterExcludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).								$34.06
						Quantity		Unit Price		Factor	=	Total	
					Installation	1.00	x	28.11	x	1.2116	=	34.06	
					electrical safety								
14	26 05 19	16 0056		MLF	3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit								$144.08
						Quantity		Unit Price		Factor	=	Total	
					Installation	0.05	x	1,894.67	x	1.2116	=	114.78	
					Demolition	0.05	x	483.70	x	1.2116	=	29.30	
					wire needed for new boiler								
15	26 05 33	13 0063		LF	3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling								$589.44
						Quantity		Unit Price		Factor	=	Total	
					Installation	50.00	x	8.02	x	1.2116	=	485.85	
					Demolition	50.00	x	1.71	x	1.2116	=	103.59	
					power and control wiring conduit								
16	26 05 33	13 0076		EA	3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow								$275.88
						Quantity		Unit Price		Factor	=	Total	
					Installation	6.00	x	29.21	x	1.2116	=	212.35	
					Demolition	6.00	x	8.74	x	1.2116	=	63.54	
					power and control wiring conduit								

Contractor's Price Proposal - Detail Continues..

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	**Equip.**	**Material**	**(Excluded if marked with an X)**			

Electrical

17	26 05 33	13 0188		EA	3/4" Rigid Galvanized Steel (RGS) Steel Bushing								$67.17
						Quantity		Unit Price		Factor		Total	
					Installation	3.00	x	12.79	x	1.2116	=	46.49	
					Demolition	3.00	x	5.69	x	1.2116	=	20.68	
					power and control wiring conduit								
18	26 05 33	13 0471		EA	3/4" Rigid Galvanized Steel (RGS) Sealing Locknut								$16.76
						Quantity		Unit Price		Factor		Total	
					Installation	3.00	x	3.55	x	1.2116	=	12.90	
					Demolition	3.00	x	1.06	x	1.2116	=	3.85	
					power and control wiring conduit								
19	26 05 33	13 0541		EA	3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors								$98.18
						Quantity		Unit Price		Factor		Total	
					Installatior	3.00	x	19.89	x	1.2116	=	72.30	
					Demolition	3.00	x	7.12	x	1.2116	=	25.88	
					power and control wiring conduit								
20	26 05 33	13 0592		EA	3/4" Rigid Galvanized Steel (RGS) Pulling Elbow								$37.33
						Quantity		Unit Price		Factor		Total	
					Installation	1.00	x	23.34	x	1.2116	=	28.28	
					Demolition	1.00	x	7.47	x	1.2116	=	9.05	
					power and control wiring conduit								
21	26 05 33	16 0005		EA	3-1/2" Depth, 4" Square Steel Box								$53.65
						Quantity		Unit Price		Factor		Total	
					Installation	1.00	x	32.60	x	1.2116	=	39.50	
					Demolition	1.00	x	11.68	x	1.2116	=	14.15	
					junction box								
22	26 24 19	00 0794		EA	150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect								$1,031.05
						Quantity		Unit Price		Factor		Total	
					Installation	1.00	x	738.43	x	1.2116	=	894.68	
					Demolition	1.00	x	112.55	x	1.2116	=	136.37	
					boiler disconnect switch								

Subtotal for Electrical **$2,347.60**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	**Equip.**	**Material**	**(Excluded if marked with an X)**			

Electrical Design Services

23	01 22 20	00 0056		HR	Senior Engineer								$1,235.83
						Quantity		Unit Price		Factor		Total	
					Installation	6.00	x	170.00	x	1.2116	=	1,235.83	
					Electrical review								
24	01 22 20	00 0057		HR	Engineer								$3,241.03
						Quantity		Unit Price		Factor		Total	
					Installation	20.00	x	133.75	x	1.2116	=	3,241.03	
					electrical connection design								

Subtotal for Electrical Design Services **$4,476.86**

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Equipment

25	23 52 33	13 0024		EA	1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262)	$32,085.06

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	25,689.90	x	1.2116	=	31,125.88
Demolition	1.00	x	791.66	x	1.2116	=	959.18

standard efficiency boiler

26	23 52 33	13 0024	0664	MOD	For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add			$560.09

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	462.27	x	1.2116	=	560.09

Subtotal for Equipment **$32,645.15**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Insulation

27	23 07 19	00 0037		LF	2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	$419.27

	Quantity		Unit Price		Factor		Total
Installation	15.00	x	19.56	x	1.2116	=	355.48
Demolition	15.00	x	3.51	x	1.2116	=	63.79

Insulate HHW piping

28	23 07 19	00 0038		LF	3" Diameter Pipe, 2" Thick Calcium Silicate Insulation			$427.63

	Quantity		Unit Price		Factor		Total
Installation	15.00	x	19.90	x	1.2116	=	361.66
Demolition	15.00	x	3.63	x	1.2116	=	65.97

Insulate HHW piping

Subtotal for Insulation **$846.90**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Material Hauling

29	01 22 23	00 1067		WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	$9,994.44

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	4,124.48	x	1.2116	=	9,994.44

move material and boiler

30	01 22 23	00 1067	0035	MOD	For Equipment Without Operator, Deduct			-$7,278.81

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	-3,003.80	x	1.2116	=	-7,278.81

31	01 66 19	00 0007		CY	Transfer Demolition Debris Between Floors Via Stairs, Per FloorQuantity equals material volume times bulk factor times number of floors traveled.			$447.44

	Quantity		Unit Price		Factor		Total
Installation	30.00	x	12.31	x	1.2116	=	447.44

Material Basement to parking lot

32	01 66 19	00 0010		CY	Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'			$181.74

	Quantity		Unit Price		Factor		Total
Installation	30.00	x	5.00	x	1.2116	=	181.74

material basement to parking lot

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Material Hauling

33	01 71 13	00 0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed TruckIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.	$425.10
					Quantity x Unit Price x Factor = Total	
					Installation 1.00 x 350.86 x 1.2116 = 425.10	
					boiler delivery	
34	01 74 19	00 0013		EA	15 CY Dumpster (2 Ton) "Construction Debris"Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	$581.56
					Quantity x Unit Price x Factor = Total	
					Installation 1.00 x 479.99 x 1.2116 = 581.56	
					dumpster for demo materials	

Subtotal for Material Hauling **$4,351.47**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Mechanical Design Services

35	01 22 20	00 0056		HR	Senior Engineer	$1,235.83
					Quantity x Unit Price x Factor = Total	
					Installation 6.00 x 170.00 x 1.2116 = 1,235.83	
					Mech review	
36	01 22 20	00 0057		HR	Engineer	$3,889.24
					Quantity x Unit Price x Factor = Total	
					Installation 24.00 x 133.75 x 1.2116 = 3,889.24	
					boiler selection design, startup	

Subtotal for Mechanical Design Services **$5,125.07**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Pipefitting

37	23 05 19	00 0004		EA	2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	$334.30
					Quantity x Unit Price x Factor = Total	
					Installation 2.00 x 110.46 x 1.2116 = 267.67	
					Demolition 2.00 x 27.50 x 1.2116 = 66.64	
					fittings, valves, gauges, etc. to install boiler	
38	23 05 19	00 0034		EA	4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	$817.88
					Quantity x Unit Price x Factor = Total	
					Installation 2.00 x 326.78 x 1.2116 = 791.85	
					Demolition 2.00 x 10.74 x 1.2116 = 26.03	
					fittings, valves, gauges, etc. to install boiler	
39	23 05 19	00 0271		EA	Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	$371.96
					Quantity x Unit Price x Factor = Total	
					Installation 1.00 x 281.67 x 1.2116 = 341.27	
					Demolition 1.00 x 25.33 x 1.2116 = 30.69	
					fittings, valves, gauges, etc. to install boiler	

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Pipefitting

40	23	05	23	00 0096		EA	1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve						$122.71
								Quantity		Unit Price		Factor	Total
							Installation	2.00	x	42.05	x	1.2116 =	101.90
							Demolition	2.00	x	8.59	x	1.2116 =	20.82
							fittings, valves, gauges, etc. to install boiler						
41	23	05	23	00 0430		EA	2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench						$1,439.31
								Quantity		Unit Price		Factor	Total
							Installation	2.00	x	578.34	x	1.2116 =	1,401.43
							Demolition	2.00	x	15.63	x	1.2116 =	37.87
							fittings, valves, gauges, etc. to install boiler						
42	23	05	23	00 0661		EA	3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB						$1,142.27
								Quantity		Unit Price		Factor	Total
							Installation	1.00	x	808.19	x	1.2116 =	979.20
							Demolition	1.00	x	134.59	x	1.2116 =	163.07
							fittings, valves, gauges, etc. to install boiler						
43	23	05	23	00 1003		EA	2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG						$3,716.39
								Quantity		Unit Price		Factor	Total
							Installation	1.00	x	2,892.86	x	1.2116 =	3,504.99
							Demolition	1.00	x	174.48	x	1.2116 =	211.40
							fittings, valves, gauges, etc. to install boiler						
44	23	05	23	00 1091		EA	3" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve						$2,407.57
								Quantity		Unit Price		Factor	Total
							Installation	2.00	x	859.06	x	1.2116 =	2,081.67
							Demolition	2.00	x	134.49	x	1.2116 =	325.90
							fittings, valves, gauges, etc. to install boiler						
45	23	05	29	00 0006		EA	1" Steel Clevis Hanger (Cooper B-Line B3100)						$161.08
								Quantity		Unit Price		Factor	Total
							Installation	5.00	x	18.68	x	1.2116 =	113.16
							Demolition	5.00	x	7.91	x	1.2116 =	47.92
							fittings, valves, gauges, etc. to install boiler						
46	23	05	29	00 0009		EA	2" Steel Clevis Hanger (Cooper B-Line B3100)						$71.19
								Quantity		Unit Price		Factor	Total
							Installation	2.00	x	20.67	x	1.2116 =	50.09
							Demolition	2.00	x	8.71	x	1.2116 =	21.11
							fittings, valves, gauges, etc. to install boiler						
47	23	05	29	00 0011		EA	3" Steel Clevis Hanger (Cooper B-Line B3100)						$125.04
								Quantity		Unit Price		Factor	Total
							Installation	3.00	x	24.91	x	1.2116 =	90.54
							Demolition	3.00	x	9.49	x	1.2116 =	34.49
							fittings, valves, gauges, etc. to install boiler						
48	23	05	29	00 0652		LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod						$128.91
								Quantity		Unit Price		Factor	Total
							Installation	20.00	x	4.78	x	1.2116 =	115.83
							Demolition	20.00	x	0.54	x	1.2116 =	13.09
							fittings, valves, gauges, etc. to install boiler						

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Pipefitting

49 23 05 29 00 0653 — LF — 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod — $276.97

	Quantity		Unit Price		Factor		Total
Installation	30.00	x	7.04	x	1.2116	=	255.89
Demolition	30.00	x	0.58	x	1.2116	=	21.08

fittings, valves, gauges, etc. to install boiler

50 23 05 29 00 0661 — EA — 1/2" Diameter, Threaded Rod Coupling Nut — $98.50

	Quantity		Unit Price		Factor		Total
Installation	10.00	x	8.13	x	1.2116	=	98.50

fittings, valves, gauges, etc. to install boiler

51 23 05 29 00 0668 — EA — 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer — $4.94

	Quantity		Unit Price		Factor		Total
Installation	6.00	x	0.51	x	1.2116	=	3.71
Demolition	6.00	x	0.17	x	1.2116	=	1.24

fittings, valves, gauges, etc. to install boiler

52 23 05 29 00 0669 — EA — 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer — $4.41

	Quantity		Unit Price		Factor		Total
Installation	4.00	x	0.74	x	1.2116	=	3.59
Demolition	4.00	x	0.17	x	1.2116	=	0.82

fittings, valves, gauges, etc. to install boiler

53 23 05 29 00 0676 — EA — 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut — $3.97

	Quantity		Unit Price		Factor		Total
Installation	4.00	x	0.61	x	1.2116	=	2.96
Demolition	4.00	x	0.21	x	1.2116	=	1.02

fittings, valves, gauges, etc. to install boiler

54 23 05 29 00 0677 — EA — 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut — $7.56

	Quantity		Unit Price		Factor		Total
Installation	6.00	x	0.83	x	1.2116	=	6.03
Demolition	6.00	x	0.21	x	1.2116	=	1.53

fittings, valves, gauges, etc. to install boiler

55 23 05 29 00 0888 — EA — 3/8" x 3-1/2" Long, Hex Lag Bolt — $36.83

	Quantity		Unit Price		Factor		Total
Installation	10.00	x	3.04	x	1.2116	=	36.83

fittings, valves, gauges, etc. to install boiler

56 23 05 29 00 0949 — EA — 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151) — $137.10

	Quantity		Unit Price		Factor		Total
Installation	6.00	x	16.67	x	1.2116	=	121.18
Demolition	6.00	x	2.19	x	1.2116	=	15.92

fittings, valves, gauges, etc. to install boiler

57 23 21 13 23 0021 — LF — 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe — $287.96

	Quantity		Unit Price		Factor		Total
Installation	10.00	x	22.39	x	1.2116	=	271.28
Demolition	3.00	x	4.59	x	1.2116	=	16.68

fittings, valves, gauges, etc. to install boiler

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Pipefitting

58 23 21 13 23 0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe $620.82

	Quantity		Unit Price		Factor		Total
Installation	15.00	x	28.63	x	1.2116	=	520.32
Demolition	15.00	x	5.53	x	1.2116	=	100.50

fittings, valves, gauges, etc. to install boiler

59 23 21 13 23 0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow $545.12

	Quantity		Unit Price		Factor		Total
Installation	8.00	x	56.24	x	1.2116	=	545.12

fittings, valves, gauges, etc. to install boiler

60 23 21 13 23 0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow $267.18

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	81.70	x	1.2116	=	197.98
Demolition	2.00	x	28.56	x	1.2116	=	69.21

fittings, valves, gauges, etc. to install boiler

61 23 21 13 23 0086 EA 2", 150 LB, Black Malleable Iron Tee $195.75

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	119.31	x	1.2116	=	144.56
Demolition	1.00	x	42.25	x	1.2116	=	51.19

fittings, valves, gauges, etc. to install boiler

62 23 21 13 23 0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling $253.03

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	75.86	x	1.2116	=	183.82
Demolition	2.00	x	28.56	x	1.2116	=	69.21

fittings, valves, gauges, etc. to install boiler

63 23 21 13 23 0135 EA 2", 150 LB, Black Malleable Iron Cap $65.09

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	40.98	x	1.2116	=	49.65
Demolition	1.00	x	12.74	x	1.2116	=	15.44

fittings, valves, gauges, etc. to install boiler

64 23 21 13 23 0344 EA 2", 125 LB, Black Cast Iron Flange $887.91

	Quantity		Unit Price		Factor		Total
Installation	4.00	x	141.21	x	1.2116	=	684.36
Demolition	4.00	x	42.00	x	1.2116	=	203.55

fittings, valves, gauges, etc. to install boiler

65 23 21 13 23 0365 EA 1-1/2", Cut And Thread Existing In Place Black Steel Pipe $85.32

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	35.21	x	1.2116	=	85.32

fittings, valves, gauges, etc. to install boiler

66 23 21 13 23 0366 EA 2", Cut And Thread Existing In Place Black Steel Pipe $89.49

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	36.93	x	1.2116	=	89.49

fittings, valves, gauges, etc. to install boiler

67 23 21 13 23 0439 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow $1,115.30

	Quantity		Unit Price		Factor		Total
Installation	3.00	x	198.35	x	1.2116	=	720.96
Demolition	3.00	x	108.49	x	1.2116	=	394.34

fittings, valves, gauges, etc. to install boiler

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Pipefitting

68 23 21 13 23 0504 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee — $686.13

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	371.31	x	1.2116	=	449.88
Demolition	1.00	x	194.99	x	1.2116	=	236.25

fittings, valves, gauges, etc. to install boiler

69 23 21 13 23 0528 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer — $370.11

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	197.38	x	1.2116	=	239.15
Demolition	1.00	x	108.09	x	1.2116	=	130.96

fittings, valves, gauges, etc. to install boiler

70 23 21 13 23 0639 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange — $1,101.59

	Quantity		Unit Price		Factor		Total
Installation	4.00	x	151.79	x	1.2116	=	735.64
Demolition	4.00	x	75.51	x	1.2116	=	365.95

fittings, valves, gauges, etc. to install boiler

71 23 21 13 23 0640 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange — $3,082.31

	Quantity		Unit Price		Factor		Total
Installation	10.00	x	168.06	x	1.2116	=	2,036.21
Demolition	10.00	x	86.34	x	1.2116	=	1,046.10

fittings, valves, gauges, etc. to install boiler

72 23 21 13 23 0696 EA 2-1/2", 3,000 LB, Forge Steel Weld-O-Let — $665.65

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	274.70	x	1.2116	=	665.65

fittings, valves, gauges, etc. to install boiler

73 23 21 13 23 0836 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe — $32.26

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	26.63	x	1.2116	=	32.26

fittings, valves, gauges, etc. to install boiler

74 23 21 13 23 0837 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe — $70.76

	Quantity		Unit Price		Factor		Total
Installation	2.00	x	29.20	x	1.2116	=	70.76

fittings, valves, gauges, etc. to install boiler

75 23 21 13 23 0850 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings — $540.13

	Quantity		Unit Price		Factor		Total
Installation	10.00	x	34.95	x	1.2116	=	423.45
Demolition	10.00	x	9.63	x	1.2116	=	116.68

fittings, valves, gauges, etc. to install boiler

76 23 21 13 23 0851 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings — $1,185.43

	Quantity		Unit Price		Factor		Total
Installation	20.00	x	39.45	x	1.2116	=	955.95
Demolition	20.00	x	9.47	x	1.2116	=	229.48

fittings, valves, gauges, etc. to install boiler

77 23 21 13 23 1013 EA 3" Plain End Piping Sys Nipple — $1,142.33

	Quantity		Unit Price		Factor		Total
Installation	7.00		122.04	x	1.2116	=	1,035.05
Demolition	7.00		12.65	x	1.2116	=	107.29

fittings, valves, gauges, etc. to install boiler

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Pipefitting

78 23 21 16 00 0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer — $1,213.42

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	855.42	x	1.2116	=	1,036.43
Demolition	1.00	x	146.08	x	1.2116	=	176.99

fittings, valves, gauges, etc. to install boiler

79 33 53 16 00 0006 EA 2" Gas Pressure Regulator, Screwed End — $1,282.54

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	1,029.28	x	1.2116	=	1,247.08
Demolition	1.00	x	29.27	x	1.2116	=	35.46

gas pressure regulator

Subtotal for Pipefitting **$27,194.52**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Sheet Metal

80 23 51 13 16 0009 EA 12" Round Flue Shutter Draft Control Damper — $2,162.21

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	1,726.09	x	1.2116	=	2,091.33
Demolition	1.00	x	58.50	x	1.2116	=	70.88

flue rework/tie into existing

81 23 51 13 19 0003 EA 12" x 12" Barometric Damper — $805.84

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	655.52	x	1.2116	=	794.23
Demolition	1.00	x	9.58	x	1.2116	=	11.61

flue rework/tie into existing

82 23 51 16 00 0010 LF 12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe0.014" (inner wall) and 0.018" (outer wall) material thickness — $1,743.25

	Quantity		Unit Price		Factor		Total
Installation	15.00	x	84.17	x	1.2116	=	1,529.71
Demolition	15.00	x	11.75	x	1.2116	=	213.54

flue rework/tie into existing

83 23 51 16 00 0037 EA 12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe — $1,225.51

	Quantity		Unit Price		Factor		Total
Installation	3.00	x	313.75	x	1.2116	=	1,140.42
Demolition	3.00	x	23.41	x	1.2116	=	85.09

flue rework/tie into existing

Subtotal for Sheet Metal **$5,936.81**

	Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)			

Water Balance

84 23 05 93 00 0044 EA >500 To 1,000 MBH, Water Balance, Boiler — $1,151.02

	Quantity		Unit Price		Factor		Total
Installation	1.00	x	950.00	x	1.2116	=	1,151.02

measure boiler flow vs manufacturer specs

Contractor's Price Proposal - Detail Continues..

Work Order Number: 141040.00
Work Order Title: Parma Heights Fire Station Boiler Replacement

Sect.	Item	Modifer	UOM	Description	Line Total
Labor	Equip.	Material	(Excluded if marked with an X)		

Water Balance

85	23	09	23	53	0644		EA	Field Test and Balance Support Cost Per ControllerThis unit cost is applicable for every network area controller and programmable DDC controller on the project. This cost includes supporting as well as purchasing extra commissioning tools for the air and water test and balance contractor as necessary.				$205.31

	Quantity		Unit Price		Factor	=	Total
Installation	1.00	x	169.45	x	1.2116	=	205.31

support balancer in starting system

Subtotal for Water Balance **$1,356.33**

Proposal Total **$92,260.98**

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

The Percentage of NPP on this Proposal: **%**