

**A RESOLUTION OF THE TOWNSHIP OF NORTH BRUNSWICK
AUTHORIZING A CONTRACT WITH
HANNAS MECHANICAL CONTRACTORS INC.
FOR THE BOILER REPLACEMENT PROJECT
AT THE MUNICIPAL COMPLEX**

WHEREAS, Hurricane Ida impacted New Jersey on Wednesday, September 1, 2021, bringing severe weather conditions including strong winds, and heavy and sustained rainfall in some areas; and

WHEREAS, the storm caused severe damage to municipal facilities, infrastructure, vehicles and equipment, including the Municipal Complex which had extensive damage to the mechanical room located within the basement; and

WHEREAS, *Rapid Recovery* as the primary contractor associated with the Municipal Joint Insurance Fund engaged subcontractors to work on various restoration efforts, including *Air Exchange* for the Heating, Ventilation, Air Conditioning (HVAC) work; and

WHEREAS, in November of 2021, subcontractor *Air Exchange* began to work on the replacement of the three boilers units that heat the building, which in December of 2021 they indicated were not operational given concerns with the associated piping; and

WHEREAS, in the months that followed, *Rapid Recovery* attempted to deliver heat/air conditioning to spot area in addition to the Department of Public Works that brought in space heaters to supplement areas of concern in the winter months; and

WHEREAS, following the event, professionals were engaged by the Insurance Company and excess carrier to review the HVAC system, to report on their findings and issue an opinion to the carrier that is used as a basis for determination of coverage; and

WHEREAS, Halliwell Engineering Associates that had been engaged by the Insurance Company issued an investigation report in May of 2022, working with MKA that issued a supplemental report in July of 2022 for the carrier, opining on concerns with the mechanical system, including the three new boilers and the inability to bring into service; and

WHEREAS, in the fall of 2022, municipal officials and professionals working with the Township held meetings with representative of the insurance carrier and their engaged professionals to discuss findings included within the reports; and

WHEREAS, in the fall of 2022, municipal officials and professionals met with members of the Garden State Joint Insurance Fund to again raise concern with regards to the remediation and restoration status of the claim; and

WHEREAS, in the fall of 2022, the Township adopted Ordinance 22-23 which authorized \$10Million in funding to enable the Township to proceed with remediation and restoration efforts if determined necessary given the unknown timeline of contractor and insurance carrier; and

WHEREAS, in December of 2022, subcontractor *Air Exchange* under Rapid Recovery notified municipal officials that they were unable to provide a timeline for heating elements, continuing to cite uncertainty with the condition of system HVAC components, leaving the Municipal Complex over a year with no climate control; and

WHEREAS, in December of 2022, pursuant to Resolution 350-12.22, T&M Associates was engaged to provide mechanical engineering services associated with the temporary climate control, as well as review the proposed restoration work performed by Air Exchange for the three boilers, and review the order with Trane for the chillers and air handlers; and

WHEREAS, in February of 2023, pursuant to Resolution 72-2.23, based on findings by the engineers with T&M Associates with regards to components of the HVAC system, additional work was determined to be required to develop a plan for the replacement of the three boilers and related piping as installed by the sub-contractor Air Exchange; and

WHEREAS, on March 6, 2023, pursuant to Resolution 98-3.23, Servpro Disaster Recovery Services was authorized on an emergent basis to provide a construction work scope and action plan and to replace Rapid Recovery (including sub-contractors) for temporary climate control and for the remediation and restoration of the building; and

WHEREAS, in addition to the scope of work with Servpro Disaster Recovery Services, a contractor was required to replace the boilers and restore the associated pipework; and

WHEREAS, with plans completed by T&M Associates, to expedite the construction phase perform necessary restoration work, a recommendation is hereby made to utilize the competitively bid Indefinite Quantity Contract (“IQC”), alternatively known as Job Order Contracting (“JOC”) for necessary construction services; and

WHEREAS, the Gordian Group is an approved vendor under the current ESCNJ Cooperative Pricing Agreement #65MCESCCPS for Contract #22/23-21; and

WHEREAS, through the Gordian Group IQC process, ESCNJ awarded contract 22/23-21, which includes Hanna’s Mechanical Contractors Inc., as an authorized contractor to provide construction services related to the Boiler Replacement Project pursuant to the contract; and

WHEREAS, at the request of the Township, Hanna’s Mechanical Contractors Inc. has provided a proposal for the Boiler Replacement Project at a cost of \$489,005.05, with expenses to be presented to the carrier as part of the insurance claim.

NOW, THEREFORE, BE IT RESOLVED on this 15th day of May 2023, that the Township Council of the Township of North Brunswick does hereby authorize the Mayor to execute and the Township Clerk to witness an agreement with the Hanna’s Mechanical Contractors Inc. for the Boiler Replacement Project at a cost of \$489,005.05, with expenses to be presented to the carrier as part of the insurance claim; and

BE IT FURTHER RESOLVED notice of this action shall be published in the Home News & Tribune as required by law within 10 (ten) days after its passage.

CERTIFICATION

I, Cavel Gallimore, Chief Financial Officer, hereby certify that \$489,005.05 is available for this purpose in Capital Ordinance 22-23 account C-04-55-C22-230-101. Contract PRO23055

Cavel Gallimore
Chief Financial Officer

Justine Progebin
Business Administrator

Ronald Gordon, Esq.
Township Attorney
Approved as to Legal Form

RECORDED VOTE:

COUNCIL MEMBER	YES	NO	ABSTAIN	NOTES
HUTCHINSON				
GUADAGNINO				
ANDREWS				
DAVIS				
SOCIO				
MEHTA				
MAYOR WOMACK				

I hereby certify that the above Resolution was duly adopted by the Township Council of the Township of North Brunswick, County of Middlesex, at its meeting held on May 15, 2023.

Lisa Russo
Township Clerk

Job Order Package

ESCNJ State Approved Coop #65MCESCCPS

JOC Contract No.: 22/23-21

New Job Order

Modify an Existing Job Order

Job Order Number: 114894.02

Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Contact: Justine Progebin

Contractor Name: HANNA'S MECHANICAL CONTRACTORS INC.

Phone: (732) 247-0922

Contact: Steven Hanna

Phone: 732-249-4911

Work to be Performed

Work to be performed as per the Final Scope of Work and the Price Proposal dated 04/13/2023, and as per the terms and conditions of JOC Contract No 22/23-21.

Brief Task Order Description:

Combined Piping Work and Installing (3) new Aerco Boilers per the attached Detailed Scope of Work.

Time of Performance

Estimated Start Date:

Estimated Completion Date:

Liquidated Damages

Will apply:

Will NOT apply:

Validation Information

No Adjustment

1.0000

Normal Working Hours

1.3050

Job Order Firm Fixed Price: \$489,005.05

Owner Purchase Order:

Approvals

Project Manager

Date

Bureau/Division Manager

Date

Technical/Engineer Review

Date

Contracting Officer

Date

Contractor's Cost Proposal - Summary (L/E/M)

ESCNJ State Approved Coop #65MCESCCPS

Date: April 14, 2023

Re: IQC Master Contract #: 22/23-21
JOC Work Order #: 114894.02
Owner PO #:
Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers
Contractor: HANNA'S MECHANICAL CONTRACTORS INC.
Proposal Value: \$489,005.05

Section - 01 - General Requirements	\$17,847.98
Section - 03 - Concrete	\$767.73
Section - 05 - Metals	\$5,004.68
Section - 22 - Plumbing	\$175,278.51
Section - 23 - Heating, Ventilating, And Air-Conditioning (HVAC)	\$282,559.50
Section - 26 - Electrical	\$7,546.65
Proposal Total	\$489,005.05

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

The Percentage of NPP on this Proposal: %

Contractor's Cost Proposal - Detail (L/E/M)

ESCNJ State Approved Coop #65MCESCCPS

Date: April 14, 2023

Re: IQC Master Contract #: 22/23-21
 JOC Work Order #: 114894.02
 Owner PO #:
 Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers
 Contractor: HANNA'S MECHANICAL CONTRACTORS INC.
 Proposal Value: \$489,005.05

Sect.	Item	Mod.	UOM	Description	Line Total
Labor	Equip.	Material	(Excludes)		

Section - 01 - General Requirements

1	01 22 16 00 0002		EA	Reimbursable Fees Reimbursable 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 shall be submitted with the Price Proposal.	\$10,067.25										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>10,067.25</td> <td>1.00</td> <td>1.0000</td> <td></td> <td>10,067.25</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	10,067.25	1.00	1.0000		10,067.25	
Quantity	Unit Price	Factor	=	Total											
10,067.25	1.00	1.0000		10,067.25											
				Project Bonding											
2	01 22 16 00 0002		EA	Reimbursable Fees Reimbursable 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 shall be submitted with the Price Proposal.	\$4,893.75										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>3,750.00</td> <td>1.00</td> <td>1.3050</td> <td></td> <td>4,893.75</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	3,750.00	1.00	1.3050		4,893.75	
Quantity	Unit Price	Factor	=	Total											
3,750.00	1.00	1.3050		4,893.75											
				Aerco boiler manufacturer start up at \$150 / Hr for two techs on site plus travel time.											
3	01 22 23 00 0843		WK	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	\$302.26										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>1.00</td> <td>231.62</td> <td>1.3050</td> <td></td> <td>302.26</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	1.00	231.62	1.3050		302.26	
Quantity	Unit Price	Factor	=	Total											
1.00	231.62	1.3050		302.26											
4	01 66 19 00 0002		CY	Transfer Delivered Material Between Floors Via Stairs, Per Floor Quantity equals volume of materials multiplied by number of floors traveled.	\$905.74										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>35.00</td> <td>19.83</td> <td>1.3050</td> <td></td> <td>905.74</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	35.00	19.83	1.3050		905.74	
Quantity	Unit Price	Factor	=	Total											
35.00	19.83	1.3050		905.74											
5	01 66 19 00 0005		CY	Transfer Demolition Debris Between Floors Via Stairs, Per Floor Quantity equals volume of materials multiplied by number of floors traveled.	\$517.56										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>20.00</td> <td>19.83</td> <td>1.3050</td> <td></td> <td>517.56</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	20.00	19.83	1.3050		517.56	
Quantity	Unit Price	Factor	=	Total											
20.00	19.83	1.3050		517.56											
6	01 74 19 00 0014		EA	40 CY Dumpster (6 Ton) "Construction Debris" Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$1,161.42										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>1.00</td> <td>889.98</td> <td>1.3050</td> <td></td> <td>1,161.42</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	1.00	889.98	1.3050		1,161.42	
Quantity	Unit Price	Factor	=	Total											
1.00	889.98	1.3050		1,161.42											

Subtotal for Section - 01 - General Requirements \$17,847.98

Section - 03 - Concrete

7	03 31 13 00 0090		SF	4" Equipment Pad With Welded Wire Reinforcement	\$767.73										
			Installation	<table border="0"> <tr> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>=</td> <td>Total</td> </tr> <tr> <td>30.00</td> <td>19.61</td> <td>1.3050</td> <td></td> <td>767.73</td> </tr> </table>	Quantity	Unit Price	Factor	=	Total	30.00	19.61	1.3050		767.73	
Quantity	Unit Price	Factor	=	Total											
30.00	19.61	1.3050		767.73											

Subtotal for Section - 03 - Concrete \$767.73

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 05 - Metals

8	05	43	00	00	0003	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel				\$5,004.68		
							Quantity		Unit Price		Factor	=	Total
						Installation	300.00	x	11.90	x	1.3050	=	4,658.85
						Demolition	100.00	x	2.65	x	1.3050	=	345.83

Subtotal for Section - 05 - Metals **\$5,004.68**

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 22 - Plumbing

9	22 07 19 00 1017	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing						\$1,211.04
			Quantity	Unit Price	Factor	=	Total		
		Installation	80.00 x	9.67 x	1.3050	=	1,009.55		
		Demolition	80.00 x	1.93 x	1.3050	=	201.49		
10	22 07 19 00 1023	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing						\$3,016.38
			Quantity	Unit Price	Factor	=	Total		
		Installation	140.00 x	13.93 x	1.3050	=	2,545.01		
		Demolition	140.00 x	2.58 x	1.3050	=	471.37		
11	22 07 19 00 1027	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing						\$4,002.70
			Quantity	Unit Price	Factor	=	Total		
		Installation	160.00 x	16.29 x	1.3050	=	3,401.35		
		Demolition	160.00 x	2.88 x	1.3050	=	601.34		
12	22 07 19 00 1031	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing						\$1,120.73
			Quantity	Unit Price	Factor	=	Total		
		Installation	40.00 x	18.35 x	1.3050	=	957.87		
		Demolition	40.00 x	3.12 x	1.3050	=	162.86		
13	22 11 16 00 0374	LF	3/4" Hard Drawn Type L Copper Tube/Pipe						\$1,344.67
			Quantity	Unit Price	Factor	=	Total		
		Installation	100.00 x	7.96 x	1.3050	=	1,038.78		
		Demolition	80.00 x	2.93 x	1.3050	=	305.89		
14	22 11 16 00 0379	LF	2-1/2" Hard Drawn Type L Copper Tube/Pipe						\$13,428.97
			Quantity	Unit Price	Factor	=	Total		
		Installation	200.00 x	44.72 x	1.3050	=	11,671.92		
		Demolition	170.00 x	7.92 x	1.3050	=	1,757.05		
15	22 11 16 00 0381	LF	4" Hard Drawn Type L Copper Tube/Pipe						\$21,298.38
			Quantity	Unit Price	Factor	=	Total		
		Installation	180.00 x	81.31 x	1.3050	=	19,099.72		
		Demolition	160.00 x	10.53 x	1.3050	=	2,198.66		
16	22 11 16 00 0644	EA	3/4" Crimped Copper 90 Degree Elbow						\$593.12
			Quantity	Unit Price	Factor	=	Total		
		Installation	10.00 x	29.97 x	1.3050	=	391.11		
		Demolition	10.00 x	15.48 x	1.3050	=	202.01		
17	22 11 16 00 0649	EA	2-1/2" Crimped Copper 90 Degree Elbow						\$15,102.50
			Quantity	Unit Price	Factor	=	Total		
		Installation	40.00 x	257.68 x	1.3050	=	13,450.90		
		Demolition	40.00 x	31.64 x	1.3050	=	1,651.61		
18	22 11 16 00 0651	EA	4" Crimped Copper 90 Degree Elbow						\$14,801.57
			Quantity	Unit Price	Factor	=	Total		
		Installation	26.00 x	401.81 x	1.3050	=	13,633.41		
		Demolition	18.00 x	49.73 x	1.3050	=	1,168.16		
19	22 11 16 00 0654	EA	3/4" Crimped Copper 45 Degree Elbow						\$654.74
			Quantity	Unit Price	Factor	=	Total		
		Installation	12.00 x	28.91 x	1.3050	=	452.73		
		Demolition	10.00 x	15.48 x	1.3050	=	202.01		
20	22 11 16 00 0659	EA	2-1/2" Crimped Copper 45 Degree Elbow						\$2,192.92
			Quantity	Unit Price	Factor	=	Total		
		Installation	8.00 x	186.32 x	1.3050	=	1,945.18		
		Demolition	6.00 x	31.64 x	1.3050	=	247.74		

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 22 - Plumbing

21	22 11 16 00 0661	EA	4" Crimped Copper 45 Degree Elbow							\$4,044.64
			Quantity	Unit Price	Factor	=	Total			
		Installation	8.00 x	350.12 x	1.3050	=	3,655.25			
		Demolition	6.00 x	49.73 x	1.3050	=	389.39			
22	22 11 16 00 0678	EA	2-1/2" Crimped Copper Reducing Tee							\$4,067.19
			Quantity	Unit Price	Factor	=	Total			
		Installation	8.00 x	361.61 x	1.3050	=	3,775.21			
		Demolition	6.00 x	37.29 x	1.3050	=	291.98			
23	22 11 16 00 0680	EA	4" Crimped Copper Reducing Tee							\$8,262.45
			Quantity	Unit Price	Factor	=	Total			
		Installation	11.00 x	515.35 x	1.3050	=	7,397.85			
		Demolition	11.00 x	60.23 x	1.3050	=	864.60			
24	22 11 16 00 0683	EA	3/4" Crimped Copper Coupling							\$287.95
			Quantity	Unit Price	Factor	=	Total			
		Installation	5.00 x	28.65 x	1.3050	=	186.94			
		Demolition	5.00 x	15.48 x	1.3050	=	101.01			
25	22 11 16 00 0688	EA	2-1/2" Crimped Copper Coupling							\$3,597.89
			Quantity	Unit Price	Factor	=	Total			
		Installation	15.00 x	152.16 x	1.3050	=	2,978.53			
		Demolition	15.00 x	31.64 x	1.3050	=	619.35			
26	22 11 16 00 0690	EA	4" Crimped Copper Coupling							\$4,038.58
			Quantity	Unit Price	Factor	=	Total			
		Installation	10.00 x	259.74 x	1.3050	=	3,389.61			
		Demolition	10.00 x	49.73 x	1.3050	=	648.98			
27	22 11 16 00 0699	EA	4" Crimped Copper FTG x C Reducing Coupling							\$1,479.27
			Quantity	Unit Price	Factor	=	Total			
		Installation	4.00 x	263.44 x	1.3050	=	1,375.16			
		Demolition	2.00 x	39.89 x	1.3050	=	104.11			
28	22 11 16 00 0707	EA	2-1/2" Crimped Copper Male Adapter							\$8,813.76
			Quantity	Unit Price	Factor	=	Total			
		Installation	24.00 x	257.68 x	1.3050	=	8,070.54			
		Demolition	18.00 x	31.64 x	1.3050	=	743.22			
29	22 11 16 00 0709	EA	4" Crimped Copper Male Adapter							\$4,968.53
			Quantity	Unit Price	Factor	=	Total			
		Installation	10.00 x	380.73 x	1.3050	=	4,968.53			
30	22 11 16 00 0724	EA	2-1/2" Crimped Copper Cap							\$692.99
			Quantity	Unit Price	Factor	=	Total			
		Installation	3.00 x	161.19 x	1.3050	=	631.06			
		Demolition	3.00 x	15.82 x	1.3050	=	61.94			
31	22 11 16 00 0740	EA	2" C x C Bronze Crimped Union							\$2,597.05
			Quantity	Unit Price	Factor	=	Total			
		Installation	8.00 x	228.42 x	1.3050	=	2,384.70			
		Demolition	6.00 x	27.12 x	1.3050	=	212.35			
32	22 11 16 00 0824	EA	2" Copper x Female Iron Pipe Thread Dielectric Union							\$657.29
			Quantity	Unit Price	Factor	=	Total			
		Installation	3.00 x	117.93 x	1.3050	=	461.70			
		Demolition	3.00 x	49.96 x	1.3050	=	195.59			

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02

Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 22 - Plumbing

33	22 11 16 00 0840	EA	2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange					\$1,835.56
			Quantity		Unit Price	Factor	Total	
		Installation	4.00	x	287.42	1.3050	1,500.33	
		Demolition	2.00	x	128.44	1.3050	335.23	
34	22 11 16 00 0842	EA	4" Copper x Female Iron Pipe Thread Dielectric Flange					\$6,442.37
			Quantity		Unit Price	Factor	Total	
		Installation	8.00	x	507.01	1.3050	5,293.18	
		Demolition	4.00	x	220.15	1.3050	1,149.18	
35	22 13 16 00 0519	LF	6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe					\$12,916.37
			Quantity		Unit Price	Factor	Total	
		Installation	240.00	x	30.86	1.3050	9,665.35	
		Demolition	240.00	x	10.38	1.3050	3,251.02	
36	22 13 16 00 0536	EA	6" Polyvinyl Chloride (PVC) DWV 1/4 Bends					\$12,513.28
			Quantity		Unit Price	Factor	Total	
		Installation	24.00	x	354.46	1.3050	11,101.69	
		Demolition	24.00	x	45.07	1.3050	1,411.59	
37	22 13 16 00 0552	EA	6" Polyvinyl Chloride (PVC) DWV 1/8 Bends					\$11,753.14
			Quantity		Unit Price	Factor	Total	
		Installation	24.00	x	330.19	1.3050	10,341.55	
		Demolition	24.00	x	45.07	1.3050	1,411.59	
38	22 13 16 00 0685	EA	6" Polyvinyl Chloride (PVC) Couplings					\$7,542.48
			Quantity		Unit Price	Factor	Total	
		Installation	24.00	x	195.75	1.3050	6,130.89	
		Demolition	24.00	x	45.07	1.3050	1,411.59	

Subtotal for Section - 22 - Plumbing

\$175,278.51

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 23 - Heating, Ventilating, And Air-Conditioning (HVAC)

39	23 01 20 91 0040	EA	Shut Down Existing Interior Piping SystemIncludes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.						\$305.76
		Installation	Quantity	Unit Price	Factor	=	Total		
			1.00	234.30	1.3050		305.76		
40	23 01 20 91 0059	EA	>100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System						\$1,138.46
		Installation	Quantity	Unit Price	Factor	=	Total		
			1.00	872.38	1.3050		1,138.46		
41	23 05 19 00 0021	EA	4" Long, 1" NPT, 304 Stainless Steel Thermowell						\$1,830.58
		Installation	Quantity	Unit Price	Factor	=	Total		
			6.00	165.96	1.3050		1,299.47		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			6.00	67.83	1.3050		531.11		
42	23 05 23 00 0098	EA	4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve						\$1,913.05
		Installation	Quantity	Unit Price	Factor	=	Total		
			2.00	696.54	1.3050		1,817.97		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			2.00	36.43	1.3050		95.08		
43	23 05 23 00 0183	EA	3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve						\$225.19
		Installation	Quantity	Unit Price	Factor	=	Total		
			2.00	73.85	1.3050		192.75		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			2.00	12.43	1.3050		32.44		
44	23 05 23 00 0185	EA	1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve						\$630.00
		Installation	Quantity	Unit Price	Factor	=	Total		
			3.00	145.88	1.3050		571.12		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			3.00	15.04	1.3050		58.88		
45	23 05 23 00 0187	EA	2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve						\$3,738.67
		Installation	Quantity	Unit Price	Factor	=	Total		
			9.00	297.76	1.3050		3,497.19		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			9.00	20.56	1.3050		241.48		
46	23 05 23 00 0400	EA	2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB						\$5,441.30
		Installation	Quantity	Unit Price	Factor	=	Total		
			6.00	543.91	1.3050		4,258.82		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			6.00	151.02	1.3050		1,182.49		
47	23 05 23 00 0600	EA	2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2)						\$2,953.79
		Installation	Quantity	Unit Price	Factor	=	Total		
			3.00	724.30	1.3050		2,835.63		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			3.00	30.18	1.3050		118.15		
48	23 05 29 00 0011	EA	3" Steel Clevis Hanger (Cooper B-Line B3100)						\$995.58
		Installation	Quantity	Unit Price	Factor	=	Total		
			20.00	31.90	1.3050		832.59		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			10.00	12.49	1.3050		162.99		
49	23 05 29 00 0013	EA	4" Steel Clevis Hanger (Cooper B-Line B3100)						\$592.76
		Installation	Quantity	Unit Price	Factor	=	Total		
			10.00	36.68	1.3050		478.67		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			6.00	14.57	1.3050		114.08		
50	23 05 29 00 0015	EA	6" Steel Clevis Hanger (Cooper B-Line B3100)						\$1,405.02
		Installation	Quantity	Unit Price	Factor	=	Total		
			16.00	56.88	1.3050		1,187.65		
		Demolition	Quantity	Unit Price	Factor	=	Total		
			8.00	20.82	1.3050		217.36		

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 23 - Heating, Ventilating, And Air-Conditioning (HVAC)

51	23 05 29 00 0016	EA	8" Steel Clevis Hanger (Cooper B-Line B3100)							\$3,168.36
			Quantity		Unit Price		Factor	=	Total	
			Installation	24.00	x 77.30	x	1.3050	=	2,421.04	
			Demolition	22.00	x 26.03	x	1.3050	=	747.32	
52	23 05 29 00 0017	EA	10" Steel Clevis Hanger (Cooper B-Line B3100)							\$1,862.52
			Quantity		Unit Price		Factor	=	Total	
			Installation	10.00	x 114.41	x	1.3050	=	1,493.05	
			Demolition	8.00	x 35.39	x	1.3050	=	369.47	
53	23 05 29 00 0036	EA	6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)							\$5,129.75
			Quantity		Unit Price		Factor	=	Total	
			Installation	32.00	x 103.32	x	1.3050	=	4,314.64	
			Demolition	30.00	x 20.82	x	1.3050	=	815.10	
54	23 05 29 00 0147	EA	6" Steel Pipe Clamp (Cooper B-Line B3140)							\$1,534.73
			Quantity		Unit Price		Factor	=	Total	
			Installation	14.00	x 69.56	x	1.3050	=	1,270.86	
			Demolition	12.00	x 16.85	x	1.3050	=	263.87	
55	23 05 29 00 0512	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod							\$609.17
			Quantity		Unit Price		Factor	=	Total	
			Installation	120.00	x 3.18	x	1.3050	=	497.99	
			Demolition	120.00	x 0.71	x	1.3050	=	111.19	
56	23 05 29 00 0528	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer							\$378.45
			Quantity		Unit Price		Factor	=	Total	
			Installation	500.00	x 0.58	x	1.3050	=	378.45	
57	23 05 29 00 0536	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut							\$238.16
			Quantity		Unit Price		Factor	=	Total	
			Installation	250.00	x 0.73	x	1.3050	=	238.16	
58	23 05 48 13 0007	EA	50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size							\$2,131.64
			Quantity		Unit Price		Factor	=	Total	
			Installation	12.00	x 136.12	x	1.3050	=	2,131.64	
59	23 05 93 00 0037	EA	Water Balance, Pumps							\$1,223.28
			Quantity		Unit Price		Factor	=	Total	
			Installation	3.00	x 312.46	x	1.3050	=	1,223.28	
60	23 05 93 00 0044	EA	>500 To 1,000 MBH, Water Balance, Boiler							\$4,892.85
			Quantity		Unit Price		Factor	=	Total	
			Installation	3.00	x 1,249.77	x	1.3050	=	4,892.85	
61	23 05 93 00 0097	EA	Up To 100', Up To 1-1/2" Piping, Pneumatic TestingIncludes soaping joints.							\$1,104.29
			Quantity		Unit Price		Factor	=	Total	
			Installation	1.00	x 846.20	x	1.3050	=	1,104.29	
62	23 05 93 00 0103	EA	>100' To 250', >1-1/2" To 4" Piping, Pneumatic TestingIncludes soaping joints.							\$2,045.84
			Quantity		Unit Price		Factor	=	Total	
			Installation	1.00	x 1,567.69	x	1.3050	=	2,045.84	
63	23 05 93 00 0107	EA	Up To 100', >4" To 10" Piping, Pneumatic TestingIncludes soaping joints.							\$1,735.68
			Quantity		Unit Price		Factor	=	Total	
			Installation	1.00	x 1,330.02	x	1.3050	=	1,735.68	
64	23 07 13 00 0023	SF	2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation							\$2,591.73
			Quantity		Unit Price		Factor	=	Total	
			Installation	100.00	x 19.86	x	1.3050	=	2,591.73	

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 23 - Heating, Ventilating, And Air-Conditioning (HVAC)

65	23 07 19 00 0155	LF	3/4" Diameter Pipe, 2" Thick, Mineral Wool Insulation With Cloth Covering				\$2,843.86
			Quantity	Unit Price	Factor	Total	
		Installation	80.00	x 23.29	x 1.3050	= 2,431.48	
		Demolition	80.00	x 3.95	x 1.3050	= 412.38	
66	23 07 19 00 0160	LF	2-1/2" Diameter Pipe, 2" Thick, Mineral Wool Insulation With Cloth Covering				\$6,209.97
			Quantity	Unit Price	Factor	Total	
		Installation	140.00	x 29.58	x 1.3050	= 5,404.27	
		Demolition	140.00	x 4.41	x 1.3050	= 805.71	
67	23 07 19 00 0162	LF	4" Diameter Pipe, 2" Thick, Mineral Wool Insulation With Cloth Covering				\$8,312.33
			Quantity	Unit Price	Factor	Total	
		Installation	160.00	x 34.94	x 1.3050	= 7,295.47	
		Demolition	160.00	x 4.87	x 1.3050	= 1,016.86	
68	23 07 19 00 0164	LF	6" Diameter Pipe, 2" Thick, Mineral Wool Insulation With Cloth Covering				\$3,654.26
			Quantity	Unit Price	Factor	Total	
		Installation	60.00	x 40.95	x 1.3050	= 3,206.39	
		Demolition	60.00	x 5.72	x 1.3050	= 447.88	
69	23 09 23 53 0132	EA	Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616)				\$1,856.62
			Quantity	Unit Price	Factor	Total	
	X	Installation	1.00	x 1,138.16	x 1.3050	= 1,485.30	
	X	Demolition	1.00	x 284.54	x 1.3050	= 371.32	
70	23 21 13 23 0109	EA	1-1/4", 150 LB, Black Malleable Iron Coupling				\$1,206.29
			Quantity	Unit Price	Factor	Total	
		Installation	12.00	x 50.80	x 1.3050	= 795.53	
		Demolition	12.00	x 26.23	x 1.3050	= 410.76	
71	23 21 13 23 0146	EA	1-1/4", 150 LB, Black Malleable Iron Union				\$1,005.84
			Quantity	Unit Price	Factor	Total	
		Installation	6.00	x 90.89	x 1.3050	= 711.67	
		Demolition	6.00	x 37.57	x 1.3050	= 294.17	
72	23 21 13 23 0397	LF	1-1/4" Schedule 40, Welded Plain End Black Steel Pipe				\$1,535.33
			Quantity	Unit Price	Factor	Total	
		Installation	50.00	x 17.21	x 1.3050	= 1,122.95	
		Demolition	50.00	x 6.32	x 1.3050	= 412.38	
73	23 21 13 23 0402	LF	4" Schedule 40, Welded Plain End Black Steel Pipe				\$3,983.51
			Quantity	Unit Price	Factor	Total	
		Installation	50.00	x 47.90	x 1.3050	= 3,125.48	
		Demolition	50.00	x 13.15	x 1.3050	= 858.04	
74	23 21 13 23 0403	LF	6" Schedule 40, Welded Plain End Black Steel Pipe				\$4,704.79
			Quantity	Unit Price	Factor	Total	
		Installation	40.00	x 68.81	x 1.3050	= 3,591.88	
		Demolition	40.00	x 21.32	x 1.3050	= 1,112.90	
75	23 21 13 23 0415	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow				\$2,241.57
			Quantity	Unit Price	Factor	Total	
		Installation	12.00	x 143.14	x 1.3050	= 2,241.57	
76	23 21 13 23 0421	EA	6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow				\$9,119.60
			Quantity	Unit Price	Factor	Total	
		Installation	6.00	x 758.92	x 1.3050	= 5,942.34	
		Demolition	6.00	x 405.78	x 1.3050	= 3,177.26	

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Section - 23 - Heating, Ventilating, And Air-Conditioning (HVAC)

77	23 21 13 23 0468	EA	6" Standard Weight, Welded Plain End Black Steel Tee						\$4,521.83
			Quantity	Unit Price	Factor	=	Total		
			Installation	2.00 x	1,121.98 x	1.3050	=	2,928.37	
			Demolition	2.00 x	610.52 x	1.3050	=	1,593.46	
78	23 21 13 23 0485	EA	4" Standard Weight, Welded Plain End Black Steel Reducing Tee						\$4,062.40
			Quantity	Unit Price	Factor	=	Total		
			Installation	3.00 x	668.08 x	1.3050	=	2,615.53	
			Demolition	3.00 x	369.57 x	1.3050	=	1,446.87	
79	23 21 13 23 0566	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer						\$2,706.56
			Quantity	Unit Price	Factor	=	Total		
			Installation	3.00 x	445.02 x	1.3050	=	1,742.25	
			Demolition	3.00 x	246.31 x	1.3050	=	964.30	
80	23 21 13 23 0567	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer						\$2,955.98
			Quantity	Unit Price	Factor	=	Total		
			Installation	2.00 x	731.41 x	1.3050	=	1,908.98	
			Demolition	2.00 x	401.15 x	1.3050	=	1,047.00	
81	23 21 16 00 0006	EA	3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78)						\$587.41
			Quantity	Unit Price	Factor	=	Total		
			Installation	2.00 x	225.06 x	1.3050	=	587.41	
82	23 21 16 00 0034	EA	2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer						\$2,109.17
			Quantity	Unit Price	Factor	=	Total		
			Installation	3.00 x	499.17 x	1.3050	=	1,954.25	
			Demolition	3.00 x	39.57 x	1.3050	=	154.92	
83	23 21 16 00 0224	EA	2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve						\$2,119.89
			Quantity	Unit Price	Factor	=	Total		
			Installation	3.00 x	541.48 x	1.3050	=	2,119.89	
84	23 21 23 13 0017	EA	1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump						\$14,549.00
			Quantity	Unit Price	Factor	=	Total		
			Installation	3.00 x	3,494.28 x	1.3050	=	13,680.11	
			Demolition	3.00 x	221.94 x	1.3050	=	868.90	
85	23 31 13 13 0003	LB	2" WG And Less (Class C), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork						\$2,489.94
			Quantity	Unit Price	Factor	=	Total		
			Installation	0.00 x	12.13 x	1.3050	=	0.00	
			Demolition	600.00 x	3.18 x	1.3050	=	2,489.94	
86	23 52 16 13 0032	EA	574 MBH 94.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN701)						\$130,175.08
			Quantity	Unit Price	Factor	=	Total		
X			Installation	3.00 x	33,250.34 x	1.3050	=	130,175.08	
87	23 52 16 16 0049	EA	Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550)						\$2,033.06
			Quantity	Unit Price	Factor	=	Total		
			Installation	3.00 x	519.30 x	1.3050	=	2,033.06	
			New LWCO for boilers						
88	23 52 33 16 0031	EA	770 MBH Gas Fired Water Tube Boiler, Steel ShellIncludes insulating jacket, standard controls, burner and safety devices. Fire tested factory assembled package unit.						\$17,758.60
			Quantity	Unit Price	Factor	=	Total		
X	X		Installation	3.00 x	2,945.95 x	1.3050	=	11,533.39	
	X		Demolition	3.00 x	1,590.09 x	1.3050	=	6,225.20	
			Remove and Reinstall Price						

Contractor's Cost Proposal - Detail (L/E/M) Continues..

Job Order No: 114894.02
Job Order Title: North Brunswick Twp Boiler Replacement - Combined Piping and New Boilers

Subtotal for Section - 23 - Heating, Ventilating, And Air-Conditioning (HVAC) **\$282,559.50**

Section - 26 - Electrical

89	26 01 20 91 0002	EA	Lock Out/Tag Out Local Disconnect Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).						\$320.87
			Quantity	Unit Price	Factor	=		Total	
		Installation	6.00 x	40.98 x	1.3050	=		320.87	
90	26 05 19 16 0015	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit						\$1,825.43
			Quantity	Unit Price	Factor	=		Total	
		Installation	1.00 x	1,036.58 x	1.3050	=		1,352.74	
		Demolition	1.00 x	362.22 x	1.3050	=		472.70	
91	26 28 16 16 0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch						\$5,400.35
			Quantity	Unit Price	Factor	=		Total	
		Installation	6.00 x	526.66 x	1.3050	=		4,123.75	
		Demolition	6.00 x	163.04 x	1.3050	=		1,276.60	

Subtotal for Section - 26 - Electrical **\$7,546.65**

Proposal Total **\$489,005.05**

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

The Percentage of NPP on this Proposal: %



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ESCNJ - North Brunswick Township Boilers at the Municipal Building

Work Order #: 114894.00

DETAILED SCOPE

Hanna's Mechanical Contractors, Inc. is pleased to provide our proposal for the boiler work required for the North Brunswick Municipal building located at 710 Hermann Rd. North Brunswick, NJ 08902. As requested by North Brunswick Township, the attached proposal is based on furnishment and installation of (3) new Aerco Boilers to replace the existing boilers. The attached proposal is inclusive of demolition of all hot water supply and return piping to the primary loop including a portion of the primary loop to facilitate new piping work. Demolition of the existing natural gas header and drop runs to (3) existing boilers. Demolition of all PVC vent piping and combustion air piping. Demolition of existing ductwork as per plans to provide access for new work. Existing electrical for the boilers and associated pumps will be disconnected and removed back to point in boiler room depicted in the plans. New electrical for boilers and associated pumps will be provided from previously disconnected point to newly provided disconnects which will be installed on new unistrut rack supports. New work to include new hot water supply and return piping including reverse return and all required pipe, fittings, valves, equipment, pipe insulation, hangers, and supports. New work to include welding services for new work required at the primary loop and natural gas header. New work to include new pipe, fittings, etc for new natural gas header and gas connections to the new boilers. New work to include PVC vent piping and combustion air piping installation. Testing and water balancing of newly installed boiler system and startup provided. Control integration of the (3) newly installed boilers is not included in this proposal and will be provided under a separate contract.

Exclusions:

- Permit Fees / Township Fees
- Automatic Temperature Controls (Seperate Contract)
- New electrical Homeruns or breakers
- Pre-balancing of existing boiler system
- Post-balancing of newly installed boiler system Only - No TAB for VAVs or mech equipment
- Sprinkler piping work of any type
- Provisions for temporary heating