

CITY OF PLATTSBURGH
DPW & HEO BUILDING HEATING SYSTEMS

SECTION 00 9100

ADDENDUM NUMBER 1

PARTICULARS

1.01 DATE: July 8th, 2021

1.02 PROJECT: City of Plattsburgh DPW & HEO Building Heating Systems

1.03 PROJECT NUMBER: 21031

1.04 OWNER: City of Plattsburgh

1.05 ARCHITECT: Architectural & Engineering Design Associates, P.C.

TO: PROSPECTIVE BIDDERS

2.01 This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated June 23, 2021, with amendments and additions noted below.

2.02 This Addendum consists of 2 page(s) for Addendum, 12 page(s) for Specifications, 1 drawing(s) attachments and the Pre-Bid Meeting sign-in sheet.

CHANGES TO THE PROJECT MANUAL

3.01 REVISED SECTIONS

- A. **REPLACE** – Section 00 4100 Bid Form: Use attached updated bid form revised to include add/deduct unit pricing for glycol disposal and installation above/below the estimated quantities.
- B. **REPLACE** – Appendix B Summary of Equipment to be Provided by Owner & Installed by Contractor: Attached is an updated equipment quotation from F.W. Webb which includes corrections of HWP-3,4 to 115v power supply and 1-1/2” flange size. The attached quotation also includes purchase pricing for the equipment to be supplied by Owner.

CHANGES TO THE DRAWINGS

4.01 REVISED DRAWINGS

- A. **REVISE** – Drawings M001 DPW Mechanical Notes & Schedule and M011 HEO Mechanical Notes & Schedule: Change Equipment by Owner Notes, note #2 reference to F.W. Webb quotation to the attached version dated 06/23/2021.
- B. **REVISE** – Drawing M011 HEO Mechanical Notes & Schedule: Delete row BF-1 from the Mechanical Equipment Schedule as no bypass feeder will be required in the HEO Shop.
- C. **REVISE** – Drawing M111 Enlarged HEO Existing/New Utility Room Plan:
 - 1. Delete the New Bypass Feeder BF-1 and associated branch piping, valves, and drain from the New Boiler Schematic.
 - 2. Add to Enlarged New Utility Room Plan a label at the termination of the new boiler vent/intake piping to extend the vent/intake openings and terminate no less than 3 feet above the existing air intake louver on the exterior of the building.
- D. **REPLACE** – Drawing G001 General notes: The attached drawing replaces the original G001 and now includes a detail to revise and replace the labels on drawings M101, M102, and M110 regarding the scope of work for replacement of the air vents at each existing unit heater assembly.

GENERAL PRE-BID MEETING QUESTIONS AND ANSWERS

5.01 RESPONSES

CITY OF PLATTSBURGH
DPW & HEO BUILDING HEATING SYSTEMS

A. **CLARIFICATION**

Question – Is the Contractor responsible for disposal of the existing glycol containing solution, and if so what is the estimated volume?

Answer – Yes, the Contractor shall dispose of all existing glycol containing solution in a manner according to applicable regulations. Based on observed pipe lengths and sizes, it is estimated there is approximately 740 gallons of solution in the DPW Garage and 70 gallons of solution in the HEO Shop, for an approximate total volume of 810 gallons.

B. **CLARIFICATION**

Question – Are the control systems and electrical work part of the Contractor's scope?

Answer – Yes, all electrical and control system work is part of the contract. The pumps HWP-1,2 and HWP-3,4 currently operate with one pump running 24hr/7days and are alternated manually. The new controls shall provide a scheduler feature for the Owner to alternate pump operations with the computer interface per System Control Notes on drawings M001 and M011.

C. **CLARIFICATION**

Question – Will the boiler and pump concrete pads remain?

Answer – Yes, please see Mechanical Scope of Work Summary / Demolition Work note #7 on drawings M001 and M011 for cleaning and removal of existing anchor requirements.

D. **CLARIFICATION**

Question – Do the existing pump starters need to be replaced or can they be reused?

Answer – If the existing pump starters are adequately sized for the new HWP-1,2,3,4 and are compatible with the required System Control Notes operating/monitoring requirements as indicated on drawings M001 and M011, then the existing starters can be reused. If not, the Contractor shall furnish and install new pump starters as outlined in the project drawings.

E. **CLARIFICATION**

Question – Will the unit heater thermostat replacement require any painting of walls?

Answer – No the Contractor will not need to paint any walls behind the new thermostat installations.

F. **CLARIFICATION**

Question – Are unit heater air vent replacements manual or automatic?

Answer – The proposed air release replacement at each unit heater was indicated to be manual air releases on the project drawings, however per the attached G001 drawing and the added schematic, the new air releases shall be automatic with new ball valve blowoff. All unit heaters are to remain.

G. **CLARIFICATION**

Question – Is a glycol injection system required?

Answer – No, the Contractor shall utilize temporary means & methods for glycol delivery into piping system.

H. **CLARIFICATION**

Question – What are the normal work day hours?

Answer – The facilities are regularly occupied 7am to 3pm, the Owner will provide access to all work areas as needed and can accommodate later work hours as required.

END OF ADDENDUM NUMBER 001



Est. 1985

ARCHITECTURAL & ENGINEERING
DESIGN ASSOCIATES, P.C.

CITY OF PLATTSBURGH – DPW & HEO BUILDING HEATING SYSTEM

PRE-BID MEETING SIGN IN

July 7, 2021 at 10:00 AM

COMPANY	NAME	PHONE/EMAIL
LH Lapante	Matt Lapante	716 667 4758
L.H. Wimmer Co., Inc	Andrew Wimmer	518-561-8003 alaplante@lhlaplante.com
JHR	Mike Ray	518-643-6687 mikerey@jhrinc.com
PIPELINE MECHANICAL	BRAO JORIK	518-562-7852 BRAO@PIPELINEMECHANICAL-YS
J. HOLLAND	SETH CHAIKIN	SETH@JHOLLANDREFRIGRATION.COM 643-6687

CITY OF PLATTSBURGH
DPW & HEO BUILDING HEATING SYSTEMS

SECTION 00 4100
BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

- A. City of Plattsburgh (Owner)
41 City Hall Place
Plattsburgh, New York 12901

1.02 FOR:

- A. Department of Public Works Garage & Heavy Equipment Operations Buildings boiler system replacement. Work to include but not limited to replacement natural gas boilers, circulation pumps, water heaters, thermostats, piping & fittings to complete systems.
- B. Project: City of Plattsburgh DPW & HEO Building Heating Systems
- C. Project Number: 21031

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name _____
 - 1. Address _____
 - 2. City, State, Zip _____

1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by AEDA, P.C. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
- B. **PROJECT BASE BID** - Total cost of project including allowances:
 - 1. _____
_____ dollars
 - 2. (\$ _____), in lawful money of the United States of America.
- C. **ADD/DEDUCT** - Unit price for proper disposal of glycol containing fluid as measured per gallon above/below the estimated 810 gallon volume.
 - 1. _____
_____ dollars
 - 2. (\$ _____), in lawful money of the United States of America.
- D. **ADD/DEDUCT** - Unit price for installation of glycol to achieve a 30% ratio as measured per gallon above/below the estimated 243 gallon to achieve a total solution volume of 810 gallons.
 - 1. _____
_____ dollars
 - 2. (\$ _____), in lawful money of the United States of America.

1.06 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.

CITY OF PLATTSBURGH
DPW & HEO BUILDING HEATING SYSTEMS

- B. If this bid is accepted by Owner within the time period stated above, we will:
 - 1. Execute the Agreement within seven days of receipt of Notice of Award.
 - 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 - 3. Commence work within seven days after written Notice to Proceed of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If this Bid is accepted, we will complete the work by October 1st, 2021.

1.08 CHANGES TO THE WORK

- A. Change Orders as approved by the owner will be accepted allowing actual cost for labor and materials plus [10%] overhead and [5%] profit for general construction work performed by the contract holder. Subcontractors will be permitted to carry [10%] combined overhead and profit on labor and material cost. The General Contractor will be permitted to carry [5%] mark up on subcontractor change order cost. All change order requests must be provided on the standard AIA Change Order Forms and must be accompanied by a detailed breakdown of cost and material receipts or supplier quotes.
- B. On work deleted from the Contract, credit to Owner shall be Architect-approved net cost plus 100% of the profit percentage noted above.

1.09 ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
 - 1. Addendum # _____ Dated _____.
 - 2. Addendum # _____ Dated _____.
 - 3. Addendum # _____ Dated _____.

1.10 BID FORM SIGNATURE(S)

A. _____
(Bidder - print the full name of your firm)

B. _____
(Authorized signing officer, Title)

CITY OF PLATTSBURGH
DPW & HEO BUILDING HEATING SYSTEMS

C. _____
(Seal)

END OF SECTION



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
	<p>***REVISED 6/23*** ***REVISED 6/22*** ANY ITEM QUOTED BELOW AS ALTERNATE TO SPEC IS SUBJECT TO ENGINEER APPROVAL. FW WEBB IS NOT RESPONSIBLE FOR COST DIFFERENCE ON ITEMS REQUIRING REVISION TO MEET WITH APPROVAL.</p> <p>***LOCHINVAR*** ***GARAGE*** TAG: B-1,2</p>		
2	Lochinvar LOCFBN1251 Wtr Blr Crest Nat Dv 1.25mbtu		
2	Lochinvar LOC100289581 Cond Neu 1-2mbtu		
		Line Subtotal	\$48,630.86
	<p>***GRUNDFOS*** TAG: BP-1,2</p>		
2	Grundfos GRU98126816 Circ Pmp Magna3 50-150f 115v 1ph 60hz		



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
2	MAGNA3 50-150F CAST IRON, VARIABLE SPEED HIGH EFFECIENCY CIRCULATOR PUMP, WITH PERMANENT MAGNET MOTOR, WITH AUTO ADAPT PROPORTIONAL PRESSURE CONTROL, AND SEVERAL OTHER CONTROL MODES. 1/60/115V ***WILL NOT WORK WITH 3" FLANGE SET*** Grundfos GRU91584911 Flg 2-1/2" Npt Ci		
		Line Subtotal	\$5,148.92
1	Miscellaneous MISFRT Shipping & Handling		
1	HVAC Equipment *HVCSTART #factory Assistance Start Up		
		Line Subtotal	\$3,200.00
2	TAG: HWP-1,2 Grundfos *GRUCBS40957LCS #grundfos 40957-lcs Cbs/paco Base Mounted End Suction Pump 5"x4" 3hp Mtr (3/60/460v) 79.31% Efficient 40957-LCS: GRUNDFOS CBS/PACO BASE		



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
	MOUNTED, SPLIT COUPLED, END SUCTION PUMP, BRONZE FITTED CAST IRON, 5" X 4", (10)HP PREMIUM EFFICIENCY MOTOR, (VFD READY), (3/60/460V), **THESE PUMPS USE A C-FACE MOTOR, MAKING IT UNNECESSARY TO ALIGN THE PUMP, ELIMINATING THE NUMBER ONE REASON FRAME MOUNTED PUMPS FAIL, THUS REDUCING INSTALLATION AND MAINTENANCE COSTS***		
2	Grundfos *GRUCBS96877846 #cv60-125 Gru Cbs/paco 6 Trp Duty Vlv Flg		
2	Grundfos *GRURCFF0604 #rcff0604: 6" Flanged X 4" Flanged Braided Stainless Steel Reducing Flex Connector. 17" Oal		
2	Grundfos *GRUCBS97523153 #sd6040-125 Gru Cbs/paco 6x4 Suct Diff		
2	Grundfos *GRUSCF600 #scf600: 6" X 9" Braided Stainless Steel Flex Connector With Flanged Connections		
		Line Subtotal	\$9,687.90

AIR DIRT SEPARATOR OPTION 1
TAG: ADS-1



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
1	Spirotherm S/VVDT500FA 5 Flgd Dirt & Air Separator		
		Line Subtotal	\$3,592.47
1	TAG: EXP-1 Grundfos *GRU99397648 #grundfos 99397648 : Gnla 300: Hvac Expansion Tanks Gnla		
		Line Subtotal	\$1,584.71
	PLUS FREIGHT		
	SHOP		
1	TAG: B-3 Lochinvar *LOCFTX500 #lochinvar 500k Btu Fire Tube Boiler FTXL CONDENSING BOILER/500,000 BTU/HR INPUT/489,000 BTU/HR OUTPUT - 10:1 TURN DOWN, STAINLESS STEEL FIRE-TUBE HEAT EXCHANGER, ASME CERTIFIED, "H" STAMPED, SMART SYSTEM CONTROL.		
1	Lochinvar LOC100289340 Cond Neu 400-850kbtu		



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
1	Lochinvar LOC100073334 Pres Swtch High/low Gas Man Rset F/ftx500		
1	Lochinvar LOC100208653 Flw Swtch Repl		
		Line Subtotal	\$9,442.58
	TAG: BP-3		
1	Grundfos GRU98126800 Circ Pmp Magna3 40-80f 115v 1ph 60hz MAGNA3 40-80F CAST IRON, VARIABLE SPEED HIGH EFFECIENCY CIRCULATOR PUMP, ECM MOTOR WITH INTEGRATED VFD, IE5 EFFICIENCY WITH AUTO ADAPT PROPORTIONAL PRESSURE CONTROL, AND SEVERAL OTHER CONTROL MODES. 1/60/115V		
1	Grundfos GRU539605 Flg 1-1/2" Npt Ci		
		Line Subtotal	\$1,433.43
1	HVAC Equipment *HVCSTART #factory Assistance Start Up		



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
		<i>Line Subtotal</i>	\$500.00
	PLUS FREIGHT		
	TAG: HWP-3,4		
2	Grundfos GRU98126804 Circ Pmp Magna3 40-120f 115v 1ph 60hz GRUNDFOS 98126804 72.0 2 1,458.21 2,916. 42 MAGNA3 40-120F CAST IRON, VARIABLE SPEED HIGH EFFECIENCY CIRCULATOR PUMP, WITH PERMANENT MAGNET MOTOR, WITH AUTO ADAPT PROPORTIONAL PRESSURE CONTROL, AND SEVERAL OTHER CONTROL MODES. 1/60/115V		
2	Grundfos GRU519604 Flg Sbrute 1-1/2" Npt Ci		
		<i>Line Subtotal</i>	\$3,451.26
	EXPANSION TANK		
	TAG: EXP-2		
1	Grundfos *GRU99397646 #grundfos - Gnla 130: Hvac Expansion Tanks Gnla - Full Acceptance; Replaceable Bladder; Asme		



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
		<i>Line Subtotal</i>	\$1,087.94
	AIR DIRT SEPARATOR OPTION 1 TAG: ADS-2		
1	Spirotherm *S/VVDT200FA #2" Flanged Asme Air An Dirt Eliminator		
		<i>Line Subtotal</i>	\$1,706.29
	PLUS FREIGHT		
	NAVIEN TAG: DHW-1		
1	Navien NAVNPE-240S2 Wtr Htr Tkls Cond Nat/lp Fd Dv 199kbtu 97%		
1	Navien NAVPBCM-AS-001 Rmt Ctrl Navilink Wifi		
1	Navien NAVGXXX001322 Cond Neu Res Sgl Unt Nc-1		
1	Navien NAVGXXX001727 Filtr Blr Naviclean Mgntc		
		<i>Line Subtotal</i>	\$1,444.70



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
1	HVAC Equipment *HVCSTART #factory Assistance Start Up		
1	Miscellaneous MISFRT Shipping & Handling		
		Line Subtotal	\$500.00
	RECIRC PUMP		
	TAG: RCP-1		
1	Grundfos GRU95906632 Circ Pmp Sbrute XI Ups26-150 Sf 3 Spd Ss		
1	Grundfos GRU519601 Flg Sbrute 3/4" Npt Ci		
		Line Subtotal	\$678.60

PLUS FREIGHT

ANY ITEM NOT QUOTED ABOVE IS CONSIDERED
NOT INCLUDED. PLEASE CHECK QUOTE
THOROUGHLY. THANK YOU.



F.W. WEBB COMPANY

1 MCCREA HILL RD
BALLSTON SPA, NY 12020
Phone: 518-490-7500 Fax: 518-490-7555

This is your **Quotation** from F.W. Webb Company.
Please review the products listed on this quotation for accuracy and completeness.

Quotation number: 71967828	Ship to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, NY 12020-3619	Bill to: Request For Quote 35 1 Mccrea Hill Road Ballston Spa, Ny 12020-3619
Quote Date : 06/16/2021		

Cust.Nbr: 180316	Customer PO: CITY OF PLATTSBURGH DPW	Rel:	Job:	Quoted By: TMCN	Requested: 06/22/2021
----------------------------	--	------	------	---------------------------	---------------------------------

Quantity	Description	Net Price	Total
		Subtotal	\$92,089.66
		Shipping	\$0.00
		Handling	\$0.00
		Tax	\$6446.28
		Total	\$98,535.94

Thank you for the opportunity to provide product pricing to meet your business needs.
Please visit our website for additional products or information <http://www.fwebb.com>
This Quotation is valid for 15 days after the above Quote Date.
* Restocking fees may apply on any Special Order Items.

Please Note: This email was sent from a notification-only address that cannot accept incoming email. Please do not reply to this message.

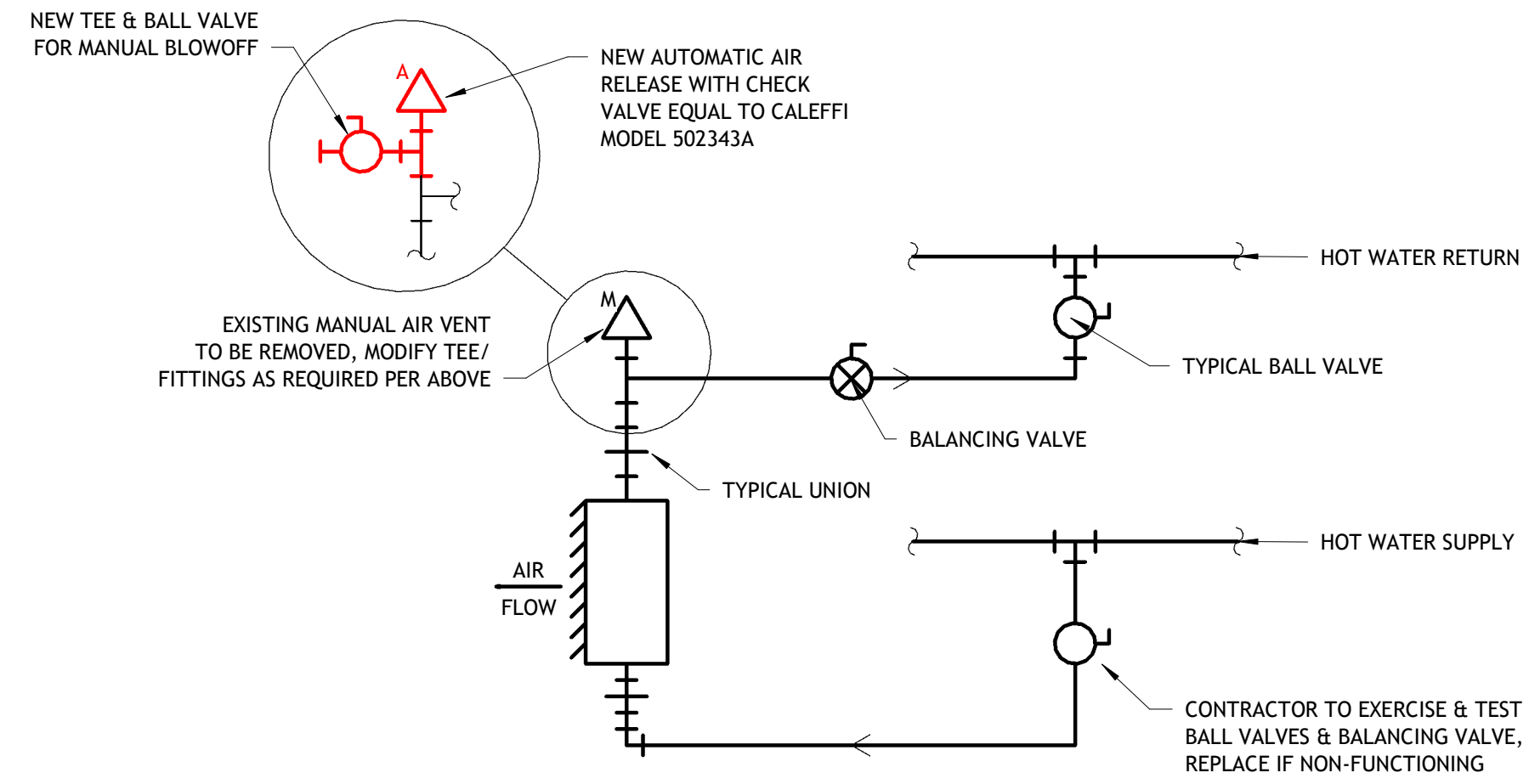
1

2

3

4

5



B1 HOT WATER UNIT HEATER PIPING SCHEMATIC
6001 N.T.S.

PROJECT ABBREVIATIONS

NOTE: EVERY EFFORT WILL BE MADE TO USE FULL WORDS INSTEAD OF ABBREVIATIONS
EXCEPTIONS: WHERE SPACE REQUIREMENTS PROHIBIT IT OR WHERE STANDARD INDUSTRY ABBREVIATIONS ARE GENERALLY ACCEPTABLE SUBSTITUTES

&	AND	HW	HOT WATER
@	AT	HVAC	HEATING VENTILATION & AIR CONDITIONING
Ø	DIAMETER	ICF	INSULATED CONCRETE FORM
#	NUMBER	MAX	MAXIMUM
LB/LBS	POUND(S)	MC	MECHANICAL CONTRACTOR
1ST	FIRST	MECH	MECHANICAL
2ND	SECOND	MIN	MINIMUM
3RD	THIRD	MISC	MISCELLANEOUS
4TH	FOURTH	MLT	METAL
5TH	FIFTH	MRGWB	MOISTURE RESISTANT GYPSUM WALL BOARD
ACT	ACOUSTIC CEILING TILE	NIC	NOT IN CONTRACT
AFF	ABOVE FINISH FLOOR	NTS	NOT TO SCALE
BM	BENCH MARK	OC	ON CENTER
BO	BOTTOM OF	OSB	ORIENTED STRAND BOARD
CJ	CONTROL JOINT	PC	PLUMBING CONTRACTOR
CL	CENTERLINE	PLUMB	PLUMBING
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CPT	CARPET	PSF	POUNDS PER SQUARE FOOT
CT	CERAMIC TILE	PSI	POUNDS PER SQUARE INCH
DEMO	DEMOLISH OR DEMOLITION	PVC	POLYVINYL CHLORIDE
DN	DOWN	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RM	ROOM
EA	EACH	RO	ROUGH OPENING
EC	ELECTRICAL CONTRACTOR	SIM	SIMILAR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SS	STAINLESS STEEL
ELEC	ELECTRICAL	STRUCT	STRUCTURAL
ELEV	ELEVATION	T&G	TONGUE AND GROOVE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	TO	TOP OF
EW	EACH WAY	TYP	TYPICAL
FD	FLOOR DRAIN	UNO	UNLESS NOTED OTHERWISE
FF	FINISH FLOOR	VIF	VERIFY IN FIELD
FRGWB	FIRE RATED GYPSUM WALL BOARD	W/	WITH
GA	GAGE/GAUGE	W/O	WITHOUT
GC	GENERAL CONTRACTOR	WD	WOOD
GWB	GYPSUM WALL BOARD	WWF	WELDED WIRE FABRIC
HM	HOLLOW METAL	WWM	WELDED WIRE MESH

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO OWNER AND ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL WORK DETAILED AND / OR SPECIFICALLY DENOTED ON THIS DRAWING SHALL BE BY GENERAL CONTRACTOR UNLESS OTHERWISE INDICATED. REFERENCE ALL DRAWINGS FOR ADDITIONAL SCOPE OF WORK REQUIREMENTS.
- CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ANY CONSTRUCTION OR ORDER OF ANY CUSTOM MATERIALS. INCONSISTENCIES IN PLANS MUST BE REPORTED TO THE OWNER AND ARCHITECT / ENGINEER.
- WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE MAKER CANNOT GUARANTEE AGAINST HUMAN ERROR. THE CONTRACTOR ON THE JOB MUST CHECK ALL DIMENSIONS & DETAILS AND BE RESPONSIBLE FOR SAME.
- EXTERIOR DIMENSIONS ARE TO FACE OF STUDS. INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF STUDS.
- CONFORM TO ALL DIMENSIONS INDICATED IN PREFERENCE TO SCALED DIMENSIONS FROM THE BLUEPRINT.
- ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER TO BE PRESSURE TREATED.
- INTERIOR FLOOR AND WALL FINISHES SHALL BE SELECTED BY OWNER.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN ALL TOILET, BATH, POWDER & LAUNDRY ROOMS.
- SEAL ALL PENETRATIONS THRU EXTERIOR, INTERIOR, FOUNDATION, FLOOR & FIRE RATED WALL/FLOOR & CEILING ASSEMBLIES AS REQUIRED W/ APPROVED MATERIALS. CONFORM TO U.L. STANDARDS FOR FIRE RATED ASSEMBLIES.

MATERIAL SYMBOLS

	GRADE
	UNDISTURBED EARTH
	PAVING
	GRAVEL
	SAND
	VAPOR BARRIER
	FIBERGLASS INSULATION
	RIGID INSULATION
	SPRAY FOAM INSULATION
	PLYWOOD
	GYPSUM BOARD
	PARTICLE BOARD
	WOOD BLOCKING OR FRAMING
	CONCRETE
	CONCRETE MASONRY UNIT
	BRICK
	STONE
	STEEL

DRAWING SYMBOLS

	BEYOND
	CALLOUT BOUNDARY
	CENTERLINE
	CONTINUOUS LINE
	DEMOLISHED
	FLASHING
	GRID LINE
	HIDDEN
	MATCHLINE
	OVERHEAD
	UNDERLAYMENT
	WEATHER BARRIER

DRAWING SYMBOLS

SHEET/DRAWING NUMBERS
DISCIPLINE/SERIES
A = ARCHITECTURAL
C = CIVIL
D = DEMOLITION
E = ELECTRICAL
ID = INTERIOR DESIGN
L = LANDSCAPE
LS = LIFE SAFETY
M = MECHANICAL
P = PLUMBING
Q = EQUIPMENT
S = STRUCTURAL

A211
SHEET NUMBER
SHEET TYPE SUB SERIES
BUILDING SUBSET
DISCIPLINE / SERIES

GRIDS
1
A

NORTH ARROW
NORTH

TITLE
VIEW TITLE
DETAIL / SHEET SCALE
1/8" = 1'-0"
VIEW LOCATION
VIEW ORIGIN
PLAN, ELEVATION, SECTION OR DETAIL TITLE

GRAPHIC SCALE
SIM ELEVATION NUMBER SHEET NUMBER
INTERIOR ELEVATION NUMBER SHEET NUMBER

ELEVATION REFERENCE
SIM ELEVATION NUMBER SHEET NUMBER
INTERIOR ELEVATION NUMBER SHEET NUMBER

PHOTO ELEVATION REFERENCE
SECTION NUMBER SHEET NUMBER
SECTION NUMBER SHEET NUMBER

SECTION REFERENCE
SECTION NUMBER SHEET NUMBER
SECTION NUMBER SHEET NUMBER

WALL SECTION REFERENCE
SECTION NUMBER SHEET NUMBER
SECTION NUMBER SHEET NUMBER

ENLARGED PLAN OR DETAIL REFERENCE
DETAIL NUMBER SHEET NUMBER
DETAIL NUMBER SHEET NUMBER

DETAIL REFERENCE
DETAIL NUMBER SHEET NUMBER
DETAIL NUMBER SHEET NUMBER

ROOM NAME
101

ROOM NAME & ROOM NUMBER
101

DOOR OR OPENING TAG
101

WINDOW, LOUVER OR CURTAINWALL TYPE
W1

SEE PARTITION SHEET FOR TAG INFO. PARTITION TYPE
X

HORIZONTAL ASSEMBLIES TYPE
X

KEYNOTES
A001

REVISION IDENTIFICATION
ACT-1
8'-0" AFF
CEILING TAG

CEILING TYPE
HEIGHT ABOVE FLOOR LEVEL

ALIGN FACE OF OBJECTS/SURFACES
ALIGN

CABINET LEGEND
= WALL CABINET
B## = BASE CABINET
DB## = DRAWER BASE CABINET
SB## = SINK BASE CABINET
W### = RANGE & REF. WALL CABINETS
WLS## = WALL LAZY SUSAN CABINET
BLS## = BASE LAZY SUSAN CABINET
CB## = CORNER BASE CABINET
CW## = CORNER WALL CABINET
= WIDTH & HEIGHT

MATCHLINE SEE A/101
MATCHLINE REFERENCE

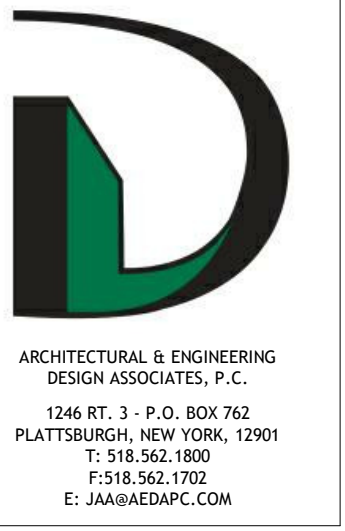
SPOT ELEVATION
8'-0"

FLOOR ELEVATION
LEVEL NAME ELEVATION

EXISTING WALL
DEMOLISHED WALL
NEW WALL

EXISTING DOOR TO REMAIN
DEMOLISHED DOOR
NEW DOOR

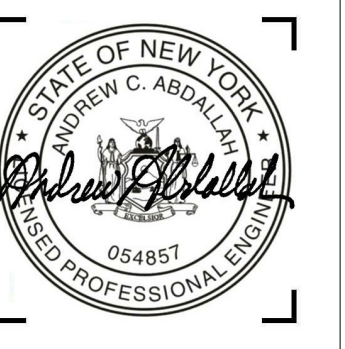
WALLS
DOORS



COPYRIGHT - ARCHITECTURAL & ENGINEERING DESIGN ASSOCIATES, P.C. HAS THE EXCLUSIVE RIGHT TO REPRODUCE THE WORK, TO MAKE DERIVATIVE USE OF IT, TO GRANT LICENSES TO USE THE WORK, TO SELL THE WORK AND TO OTHERWISE DEAL WITH THE COPYRIGHT THROUGH THE LIFE OF THE COPYRIGHT OWNER AND FOR 50 YEARS BEYOND (UNLESS NOTED OTHERWISE). UNAUTHORIZED ALTERATIONS, AND/OR ADDITIONS TO THIS DRAWING BEARING A LICENSED ARCHITECT'S OR ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING BEARING THE ORIGINAL ARCHITECT'S OR ENGINEER'S SEAL AND SIGNATURE SHALL BE CONSIDERED VALID TRUE COPIES.

CITY OF PLATTSBURGH - DPW & HEO
BUILDING HEATING SYSTEM
215 IDAHO AVENUE PLATTSBURGH, NY 12901

CONSTRUCTION DOCUMENT
PHASE SERVICES 100%



REVISIONS

#	BY	DATE
1	JCB	07-08-21

GENERAL NOTES

PROJECT NO. 21031
DATE 06/23/2021
DRAWN BY JCB
CHECKED BY SEC

G001

7/8/2021 1:56:10 PM