| BUSINESS A | ND FINANCE | DIVISION |
|-------------------|------------|----------|
| Report No. | 9 | |

OGDENSBURG CITY SCHOOL DISTRICT OGDENSBURG, NEW YORK

| - | | - | _ |
|------|----|-------|----|
| V. | UE | | T٠ |
| . 31 | | | |

Board Approval of Change Order 1-01, Capital Outlay Project-

Boiler Replacement, Ogdensburg Free Academy Golden Dome -

Project Number: 2018-041

DATE:

February 25, 2019

REASON FOR BOARD CONSIDERATION:

The Board of Education must approval all changes that increase or

decrease the cost of the current renovation project.

FACTS AND ANALYSIS:

Since the above-mentioned Change Order increases the contract sum by \$2,238.00 and since it carries the recommendation of the Superintendent of Schools, the same is presented to the Commissioners for review and/or approval.

RECOMMENDED ACTION:

Moved by _____ and supported by _____ that, having the approval of the Superintendent of Schools, the Board of Education of the Ogdensburg City School District does hereby approve Change Order 1-01, Capital Outlay Project Boiler Replacement Ogdensburg Free Academy Golden Dome-Project Number: 2018-041, presented this 25th day of February 2019.

APPROVED FOR PRESENTATION TO THE BOARD:

Superintendent

KK/alf Attachment

CHANGE ORDER

| PROJECT: Capital Outlay Project Boiler Replacement OWNER: Ogdensburg City School District 1100 State Street Ogdensburg, New York 13669 CONTRACTOR: Northern Mechanicals, Inc. (Name, Address) 2 Baldwin Ave. Norwood, NY 13668 CONTRACT FOR: No. 1 - Mechanical CONTRACT DATE: August 27, 2018 PATE OF ISSUANCE: January 17, 2019 ENGINEER: BCA Architects & Engineer 327 Mullin Street Watertown, New York 136 ENGINEER'S PROJECT NO.: 2018-041 SED PROJ. MGR.: Sigrid Coons SED CONTROL NO.: 51-23-00-01-0-002-011 District SED CONTROL NO.: 51-23-00-01-0-002-011 | | |
|---|--------------|------------------------|
| 1100 State Street Ogdensburg, New York 13669 CONTRACTOR: Northern Mechanicals, Inc. (Name, Address) 2 Baldwin Ave. Norwood, NY 13668 CONTRACT FOR: No. 1 - Mechanical CONTRACT DATE: August 27, 2018 327 Mullin Street Watertown, New York 136 ENGINEER'S PROJECT NO.: 2018-041 SED PROJ. MGR.: Sigrid Coons SED CONTROL NO.: 51-23-00-01-0-002-011 Di | | |
| (Name, Address) 2 Baldwin Ave. Norwood, NY 13668 CONTRACT FOR: No. 1 - Mechanical SED PROJ. MGR.: Sigrid Coons CONTRACT DATE: August 27, 2018 SED CONTROL NO.: 51-23-00-01-0-002-011 December 2018 | | |
| CONTRACT DATE: August 27, 2018 SED CONTROL NO.: 51-23-00-01-0-002-011 D | | |
| | | |
| You are directed to make the following changes in the Contract Documents to include all labor. material. a | ome | |
| | and equi | pment: |
| Add for new boiler flue to maintain proper breeching separation between existing natural draft and new forced draft boilers. | 1(6) | 7,238.00 |
| 2, Deduct for the remainder of the Field Directive Allowance. | | (5,000.00) |
| Attachments: (list documents supporting change) Proposals from Northern Mechanical BCA' related Contract Documents | 5-00 8-18 | 2,238.00 |
| This Change Order constitutes compensation in full to the Contractor for all costs attributable to these changes for all delays reliperformance of the work within the time stated herein. The Contractor further waives all rights resulting from the cumulative effort preceding Change Orders. | ated there | eto and for and all |
| CHANGE IN CONTRACT PRICE: CHANGE IN CONTRACT TIME | ΛE: | |
| Original Contract Price Original Contract Time as per Milestone Construction Sche | edule | |
| \$ 56,600.00 days or date Previous Change Order: N/A Net Change from previous Change Orders | | |
| none | | |
| Contract Price prior to this Change Order Contract Time prior to this Change Order as per Milestone Construction Sche | | |
| \$ 56,600.00 days or date | Jouic | |
| Net Increase of this Change Order Net Increase of this Change Order none | | |
| \$ 2,238.00 days | | |
| Contract Price with all approved Change Orders Contract Time with all approved Change Orders as per Milestone Construction Sche \$ 58,838.00 | | |
| RECOMMENDED: APPROVED: APPROVED: | | _ |
| BCA ARCHITECTS & ENGINEERS OGDENSBURG CITY SCHOOL DISTRICT NORTHERN MEC | HANICALS | 3 |
| Shill Kikhh & Tu. | v | |
| Architect/Engineer Owner Contracte | | |
| Shawn M. Travers, RA Print or Type Name | | LURY |
| | | |
| | 2010 | |

Prepared by the Engineers' Joint Contact Documents and endorsed by The American General Contactors of America.

Northern Mechanicals, Inc.

HEATING & VENTILATING CONTRACTORS

2 BALDWIN AVE., P.O. BOX 195 NORWOOD, NEW YORK 13668-0195 PHONE:(315) 353-6641 FAX: (315) 353-6696

January 9, 2019

Attn: Steve Shockley Bernier, Carr & Associates 327 Mullin St. Watertown, NY 13601

RE: Ogdensburg City School - Golden Dome

2018 Capital Outlay Project

Boiler Replacement

SED Control No. 51-23-00-01-0-002-011

BCA Project No. 2018-041

Cost Proposal

SCOPE – Provide and install new Boiler Chimney / Breeching System – for new boiler – separate from existing.

Labor = \$1,248.00 (2 men 1 day or 16 man hrs. @ \$78.00 per hr.)

Material = \$5,002.50 (Quoted by Appleby, Inc. @ \$4350.00 plus 15% OH&P)

Roofing Sub. = \$787.50 (No quote but, RSI Charged \$750.00 for Flashing of

Intake Piping Plus 5% OH&P)

Other? = ? \$200.00 (Capping of Existing tie-in point, where new boiler is currently tied – into old chimney)

Total = \$7,238.00

Regards.

Jason Froats, PM



APPLEBY, INC.

1213 County Highway 107
Fort Johnson, NY 12070
(518) 762-1131, 376-3672 cell

web: www.applebyinc.com e-mail: jdumais@applebyinc.com **QUOTATION**

DATE QUOTE #

1/7/2019 2019-001

To

Northern Mechanical P.O. Box 195 Norwood, NY 13668

| (| JOB | TERMS | (BID DATE | REP |
|---|--|--------|-----------|-----|
| (| 2018 Capital Outlay Project Ogdensburg | Net 30 | 1/7/2019 | JRD |

| QTY | DESCRIPTION | TOTAL |
|-----|--|----------|
| 1 | Industrial Chimney CoVIC chimney system, AL29-4C Stainless Steel inner/430 Stainless Steel outer, 1" air space, UL listed for Condensing Appliances 8" I.D. for B-1, Patterson Kelly N1500MFD, up thru roof per attached Submittal | 4,350.00 |
| | | |
| | | K |
| | | |
| | | |
| | | |



APPLEBY, Inc.

HVAC Manufacturer's Representative

elephone: (518) 762-1131" Cell: (518) 376-3672 E-Mail: jdumais (a applebyinc.com www.applebyinc.com

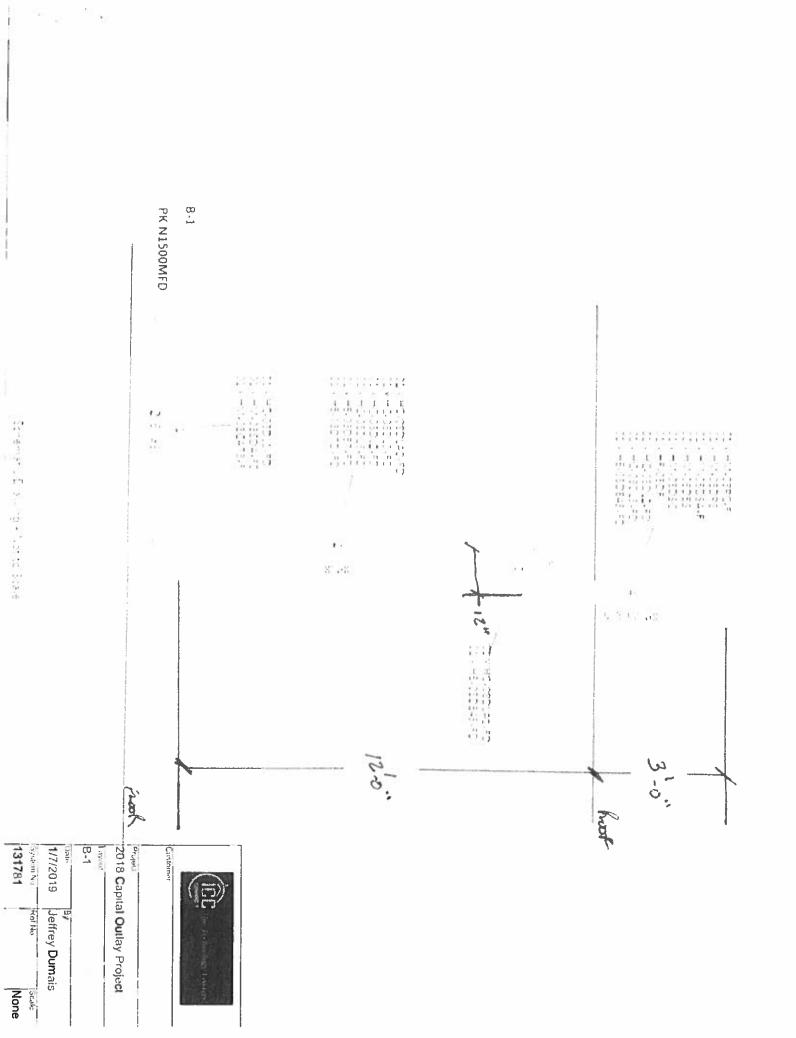
1213 County Highway 107 Fort Johnson, NY 12070

SUBMITTAL

2018 Outlay Project Ogdensburg CSD Boiler Replacement

Boiler Sections

By J.R. Dumais 1-7-2019



Proposal



Project Data

Project No:

System No:

131781 1/7/2019

Date: Prepared for:

Prepared by:

Appleby, Inc. Jeffrey Duma's

Project Name:

2013 Capital Outlay Project Ogensburgh

CSD

Location:

Ogdensburg, NY

Layout/BOM Title:

B-1

Product(s):

VIC-DW-AL29/430

Quote

| Section | Qty Item No | Description | |
|---------|-------------------------|------------------------------|--|
| 1 | 1 M-08CA78-F | CLAMP ADAPTER 7-7/8'S'D | |
| 1 | 1 1-14-08S DA-FD | Single to Double Wall + 30A | |
| 1 | 1 -C-U8DL1-FD | 12" Length | |
| 2 | 1 HE-08DTD-FD | Tee Cap Drain - HD | |
| 2 | 1 HE-08D8T-FD | DOUBLE WALL BOOT TEE | |
| 2 | 1 HC-08DL6-FD | 6' Length | |
| 2 | 1 HC-08DI 2-FD | 241 Length | |
| 2 | 1 F/C-080L3-FD | 36" Length | |
| 2 | 1 HC-08DLAZ-FD | 24" Adjustable Length | |
| 3 | 1 HE-080E45-FD | Elbow 45° - E45 | |
| 3 | 1 HC-08DLA1-FD | 12" Adjustable Length | |
| 4 | 1 HE-08DE45-FD | Elbow 45° - E45 | |
| 4 | 1 HC-08DL3-FD | 36 " Le ngth | |
| 4 | 1 HC-08DL2-FD | 24" L ength | |
| 4 | 1 HF-08DF | Flashing - F | |
| 4 | 1 Fit.1-08DSC | Storni Collar - SC | |
| 4 | 2 FW-08DBS | Base Support - 33 | |
| 4 | 1 HM-08DSA-F | Double to Single Wall - DSA | |
| 4 | 1 HM-08DRS | Radiation Shield Duuple Wall | |
| 4 | 1 HM4-08RC-F | Rain Cap + RC | |

Prices shown are in US Dollars

Section Legend

| Section | Product | Dia/Cross Dim | Vertical | Horizontal | Length |
|---------|------------------|---------------|---------------------|--------------------|-----------------------------|
| 1 | VIC-DW-AL29/430 | ø8 | C. O. (O.) | 2' 6" (30") | 2' 6 ' (30") |
| 2 | VIC-DW-AL29/43() | d8 | 8' 0" (96") | 0, 0, (0,) | 8°0" (96") |
| 3 | VIC-DW-AL29/430 | OB | 1' ()" (12") | 1':0" (12") | 1' 4" (16") |
| 4 | VIC-DW-AL29/430 | ଓଡି | 5' 342' (6342") | 0° 0 " (0") | 5' 31/1' (631/:") |
| Total | | | 14' 31'2" (1711'2") | 3' 6" (42") | 17' 21/2" (2061/2") |

Order of Install

| Section | Qty Item No |
|----------|-------------|
| 266(101) | Qty Item No |

| 1 ** | 1 Ht.1-98CA78-F | CLAMP ADAPTER 7-7/91 STD | |
|------|-----------------|------------------------------|--|
| 1 | 1 FIM-08SDA-FD | Single to Double Wall - SDA | |
| 1 | 1 HC-08DL1-FD | 12 Length | |
| 2 | 1 HE-OSDID-FD | Tee Cap Drain - TD | |
| 2 | 1 HE-08DBT-FD | DOUBLE WALL BOOT TEE | |
| 2 | 1 HC-08DL6-FD | 6" Lençth | |
| 2 | 1 | 24" Lengtin | |
| 2 | 1 HC-08DL3-FD | 36' Length | |
| 2 | 1 HC-08DLA2-FD | 24" Adjustable Length . | |
| 3 | 1 HE-08DE45-FD | Elbow 45 - E45 | |
| 3 | 1 HC-08DLA1-FD | 12" Adjustable Length | |
| 4 | 1 HE-08DE45-FD | Elbow 45° - E45 | |
| 4 | 1 HC-08DL3-FD | 36" Length | |
| 4 | 1 HC-08DL2-FD | 24" Length | |
| 4 | 1 HE-08DF | Flashing - F | |
| 1 | 1 HM-08DSC | Storm Collar - SC | |
| 7 | 2 Httl-08D6S | Base Support - BS | |
| 4 | 1-A2C80-I/IH I | Double to Single Wall - DSA | |
| 1 | 1 HM-08DRS | Radiation Shield Double Wall | |
| 4 | 1 HM-08RC-F | Rain Cap - PC | |
| | | | |

Last revised on 1/7/2019 9:39:35 AM. This thyout was processed using Bailer/WH Application Pules.

ICC Model VIC

DOUBLE WALL SPECIAL GAS VENT INSTALLATION AND MAINTENANCE INSTRUCTIONS

The ICC Model VIC is a listed venting system designed for venting commercial and industrial appliances, condensing appliances, category I, II, III, IV appliances.

For use on positive, neutral and negative pressures up to 15" w.c. (3.75 kPa.)

Sizes: 5" (76mm) to 24" (610mm) diameters

WARNING

- A major cause of vent related fires is failure to maintain required clearances (air space) to combustible
 materials. It is of utmost importance that this venting system be installed only in accordance with these
 instructions. Do not fill the air space with insulating material.
- Contact local building or fire officials about restrictions and installation inspection in your area.

Do not begin installing the ICC Model VIC venting system until you have carefully read the appliance and vent system installation instructions.

Use only ICC Model VIC components. Failure to do so will void the certification and warranty of the product.

Keep these installation and operating instructions in a safe location for future reference.

- Examine all components for possible shipping damage prior to installation.
- Proper joint assembly is essential for a safe installation.
- Follow these instructions exactly as written.
- Check tightness of joints upon completion of assembly.
- This venting system must be free to expand and contract.
- This venting system must be supported in accordance with these instructions.
- Check for unrestricted vent movement through walls, ceilings, and roof penetrations.
- Different Manufacturers Have Different Joint Systems and Adhesives.
- Do Not Mix Pipe, Fittings, or Joining Methods from Different Manufacturers.

Tested and Listed to:
UL 1738 / ULC S636
by Underwriters Laboratories, Inc (Listing # MH46076)





ICC INDUSTRIAL CHIMNEY COMPANY INC. 400 J.F. Kennedy, St. Jérome Québec, Canada, J7Y 4B7 Tel.: (450) 565-6338 Fax: (450) 565-6519

ex: (450) 565-6519 www.lcc-rsf.com

VIC_DW_II_2012-06

TABLE OF CONTENTS

| | 2 |
|---|----------|
| Model VIC, Double Wall Technical Specifications Deparation and Maintenance Seneral Installation Notes Planning your Installation Assembling Notes Horizontal through the Wall Installation | 4 |
| Operation and Maintenance | 4 |
| Seneral Installation Notes | 4 |
| Planning your Installation | 5 |
| Assembling Notes | 7 |
| Horizontal through the Wall Installation | 8 |
| | |
| | |
| | |
| Vertical Exterior Installation | 13 40 |
| Wall Support | 19 |
| Horizontal Band | 14 |
| Guy Band | 14 |
| Horizontal Termination Location | 15 |
| A - Jal VIO Davida Wall - Darie Liet | 10 |
| Warranty | 17 |
| * # CI CI I 1 1 1 1 1 1 1 1 | |

Model VIC, Double Wall Technical Specifications

Material

Model VIC double wall vent is constructed of either stainless steel grade AL29-4C er-444 for the flue and stainless steel grade 430 for the casing. The formed gasket is made of high temperature silicone.

| Weight / Th | nickness | | | | \bigvee | | | | | | | | | |
|-------------|----------------------|-----|-----------------|-----|-----------|-----|-------------------|-----|------|-----|-----|-----|------|------|
| | | 5" | 6" | 7" | 8" | 9" | 10" | 12" | 14" | 16" | 18" | 20" | 22" | 24" |
| Thickness | AL29 -4C/430 | | 0.018" / 0.018" | | | | 0.018" / 0.025" * | | | | | | | |
| (inch) | -444/490- | | | | | | | | | , | , | , | | |
| Weight | AL29 -4C/430 | 2.4 | 2.8 | 3.1 | 3.5 | 3.9 | 4.3 | 6.2 | 7.1 | 8.1 | 9.0 | 99 | 10.9 | 11.8 |
| (lb/ft) | 444430 | | 2.0 | J., | | | | | 1.57 | | | | | |

On request, model VIC double wall vent can be built using 0.025" thickness stainless steel grade AL29-4C instead of 0.018".

Clearance to Combustibles

| Diameter | Maximum Appliance / Vent | Fully 8 | Enclosed | Un | enclosed |
|-----------|-----------------------------|---------------|------------|-----------|--------------|
| | Rating | Vertical | Horizontal | Vertical* | Horizontal** |
| 5" - 8" | | | | | 1" |
| 9"- 12" | 550 45 | _{4"} | n/n | 4" | 2" |
| 14" - 18" | 550 °F | 1 1 | n/a | ' [| 3" |
| 20" - 24" | | | | | 4" |

^{*} Enclosed on 3 sides.

^{*} In Canada the minimum outer casing thickness is 0.018".

^{**} Enclosed on the ceiling and one side wall.

Operation and Maintenance

KEEP YOUR VENT CLEAN. Your vent system should be examined annually by a qualified service company for the presence of soot or debris. Any accumulation should be removed. Also, the vent system should be inspected periodically for the following:

- 1. Any leakage of condensate or combustion by-product at joints should be removed.
- 2. A defective drain trap loop should be repaired to prevent any leakage of exhaust gases inside the building area.
- 3. Any sign of corrosion.

General Installation Notes

- 1. Model VIC is to be installed in accordance with these installation instructions and with those of the appliance manufacturer.
- 2. Installation is to be in accordance with local building code requirements and National Codes.
- 3. Size the vent in accordance with the appliance manufacturer's instructions. ICC will calculate correct vent sizing on request.
- 4. Make sure you read the appliance installation instructions for vent limitations such as maximum horizontal length, maximum number of elbows, total vent height, common venting option, and other limitations that may affect the design and installation of this vent.
- 5. DO NOT connect a natural draft appliance to a common venting system deserving Cat. II, III or IV appliances.
- 6. Check the joints and seams for gas tightness when using the venting system with a Category III or IV appliance.
- 7. The venting system SHALL NOT be routed into, through, or within any other vent, such as an existing masonry or factory-built chimney flue. Exception: A masonry chimney flue may be used to route Model VIC if no other appliance is vented into the same masonry chimney flue.
- 8. Model VIC double wall vent can be used with single wall vent within the same installation as long as proper clearances are maintained.
- 9. The maximum height of un-guyed vent above the roof is 5 feet.
- 10. The vent shall extend at least 3ft, above its point of penetration with the roof and at least 2 ft, higher than any wall, roof or adjacent building within 10 ft of it.
- 11. DO NOT FILL THE AIR SPACE around the vent with insulation or any other material.
- 12. Do not allow sawdust or construction debris to accumulate around the vent. Clean all areas surrounding the vent before closing up any enclosed areas.
- 13. Except for installation in single or double family dwellings, a venting system that extends through any zone above the zone which the connected appliance is located shall be provided with an enclosure having a fire resistance rating equal to or greater than that of the floor or roof assemblies through which it passes.
- 14. Enclosure of exterior mounted venting systems below the roof line is recommended to limit condensation.
- 15. When required, a drain fitting should be located as close as possible to the appliance flue outlet.
- 16. A pitch of at least 1/4" to the foot or 2" must be maintained on horizontal run to prevent the accumulation of corrosive condensate.

Planning your Installation

Prior to starting your installation, we suggest you take the following into consideration:

- 1. Check the appliance manufacturer's installation instructions to see all possible vent configurations.
- Review all your options for the appliance location and also venting configuration. Try to minimize the alteration and
 reframing of structural components of the building (wall studs, water pipes, electrical wiring, ceiling joists, roof rafters,
 etc.). It may be easier to change the location of your appliance than to modify the building structure.
- 3. Use only Model VIC listed components. Do not use damaged parts.
- 4. The horizontal vent termination on the exterior must be located in accordance with Codes and Regulations.
- 5. Any penetrations of ceilings, floors, or walls must be properly fire-stopped.
- 8. Contact your local building authority and/or fire officials for permits, restrictions and installation inspections. You may also wish to contact your building insurance representative.

Tool checklist

Tools and equipment you may need for your installation.

- Eve protection

- Stud sensor

- Keyhole saw

- Hammer - Screwdrivers

- Gloves

- Square - Circular saw - Ladder - Screws

- Tape Measure - Extension cord

- Hand saw

- Level - Pliers

- Plumb Bob

- Marking pencil

- Drill

- Drill bits

- Caulking gun

- Cold chisel

- Nails

- Hi temp. Silicone sealant

Rules of Safety

- 1. Wear gloves when handling metal parts with sharp edges.
- 2. Wear safety glasses.
- 3. Electrical tools must be grounded.
- 4. If a ladder is required, it must be in good condition, installed on a firm surface, and leveled.
- 5. When cutting a wall, floor or ceiling, be careful not to damage wiring, gas or water pipes. If these elements need to be relocated, work should be done by a qualified person.

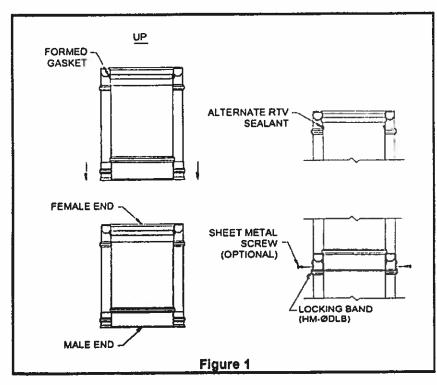
Assembling Notes

Use of sealant

The Model VIC vent has a factory installed high temperature gasket that will make a sealed connection. It is not required to apply sealant on any lengths or fittings. The only exception is the adjustable length. The adjustable length must be sealed with a factory supplied high temperature sealant (X-TRASIL #4706). Allow the sealant to cure for 24 hours before operating the appliance.

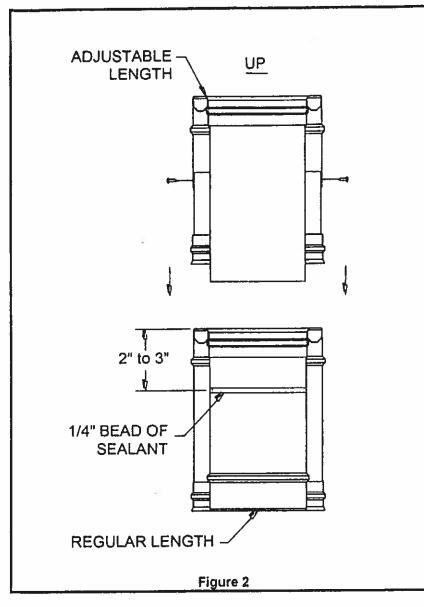
If the factory installed gasket is damaged in the field you can seal the joint with the high temperature sealant. Follow the same procedure as for the adjustable length.

Joint connection



To connect two parts together simply insert the male end of one part into the female end of the adjoining part and press firmly until the outer casings are fully inserted one into another. Once the parts are firmly joined, install a locking band over the outer casing joint as shown in Figure 1. A locking band comes with every part. You can put a small amount of liquid dish soap on each gasket to make it easier to assemble the vent. Do not use a petroleum-based lubricant.

In addition to the locking band you can use #8-1/2 or bigger stainless steel sheet metal screws on the outer casing joint to make it stronger. Use a minimum of 3x screws (5"-10"), 4x screws (12"-14") or 6 screws (16"-24").



The adjustable length adjusts by sliding inside a regular length or fitting. The adjustment range is from 4 1/2" to 9 1/2" for the 12" adjustable length and 4 1/2" to 22 1/2" for the 24" adjustable length. The adjustable length is supplied fully extended. To adjust the adjustable length slide the bottom casing to the desire length then screw the two sections together with the self tapping screws provided Make sure each joint is clean by removing oil and other contaminants; alcohol has been found suitable to clean the joints. To seal the adjustable length you will first need to apply a 14" bead of sealant inside the regular length or fitting about 2 to 3 inches from the female end. Insert the adjustable length inside the female joint by twisting slightly, to ensure even distribution of the sealant. Press firmly until the outer casings are fully inserted one into another. Once the parts are firmly joined, install a locking band over the outer casing joint as shown in Figure 2. The adjustable length comes with its own locking band.

In addition to the locking band you can use #8-1/2 or bigger stainless steel sheet metal screws on the outer casing joint to make it stronger. Use a minimum of 3 screws (5"-10"), 4 screws (12"-14") or 6 screws (16"-24").

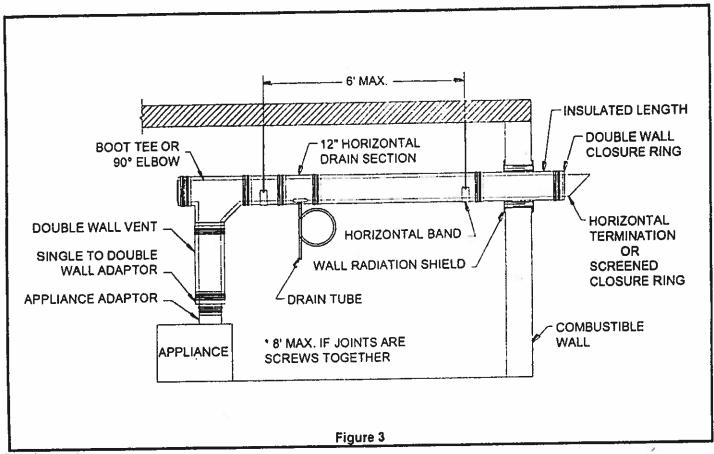
RTV sealant (10 oz Cartridge & 3 oz Tube) Coverage

| | | | | | | | | | _ | | | | |
|---------------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 5" | 6" | 7" | 8" | 9" | 10" | 12" | 14" | 16" | 18" | 20" | 22" | 24" |
| # of joints (10 oz) | 50 | 42 | 36 | 32 | 28 | 25 | 21 | 18 | 16 | 14 | 13 | 12 | 11 |
| # of joints (3 oz) | 15 | 13 | 11 | 10 | 9 | 8 | 6 | 6 | 5 | 4 | 4 | 3 | 3 |

- The coverage is about 66 feet per 10 oz cartridge and 20 feet per 3 oz tube for a ¼" bead.
- Actual coverage may vary.

Note: The Appliance Adapter will most likely also be sealed using the RTV sealant. See the appliance manufacturer instructions for detail.

Horizontal through the wall installation



Requirements:

• The vent system must terminate with a Model VIC termination or with an approved mechanical vent device, or with the appliance manufacturer listed termination.

- The total continuous distance of the vent system from the appliance flue collar to the termination shall not exceed
 that specified in the appliance manufacturer's installation instructions. When venting natural draft appliances the
 termination must be at least 5 feet above the topmost draft hood. Otherwise a Listed mechanical draft inducing
 device is required.
- Termination Location:
 - o (a) The vent shall terminate at least 3 feet above any forced air inlet located within 10 feet.
 - o (b) The vent shall terminate at least 4 feet below, 4 feet horizontally from or 1 foot above AND 2 feet horizontally from any door, window or gravity air inlet into any building.
 - o (c) The vent termination shall be at least 12 inches above grade or, in geographical areas where snow accumulates, at least 12 inches above the anticipated snow line.
 - (d) Through-the-wall vents for Category II and IV appliances and non-categorized condensing appliances shall not terminate over a public walkway or an area where condensate or vapors could create a nuisance or hazard or could be detrimental to the operation of regulators, relief valves or other equipment.
 - o (e) The vent termination shall also be at least 8 feet horizontally from any combustion air intake, located above it.
- Proper means draining condensate should be provided. Proper sloping is required when the vent is installed horizontally.
- The drain fitting should be installed as close to the appliance flue collar as possible.
- Use non-combustible hanger straps or ICC horizontal bands every 6 feet to support the vent (8 feet if the joints outer casings are screws together). ""Ø treaded rod is typically used with ICC Horizontal Band. Do not puncture the vent inner pipe with screws or other fasteners.
- The horizontal vent must slope upward toward the termination at least ½" per foot and be installed so that all condensate runs back toward the appliance and is not retained in any part of the venting system. Exception: If the system is connected to a positive pressure (Category III or IV) appliance, terminates with a horizontal termination, and has no provision for draining condensation and/or rain water; then the vent must pitch downward toward the termination at a pitch at least ½" per foot.

1. Determine the appliance and termination location that agrees with both the codes and appliance manufacturer's requirements.

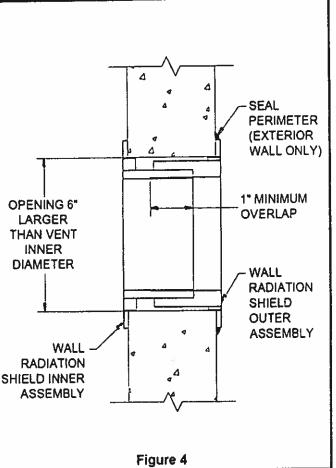
2. Cut and frame a square opening in the wall making sure the center of the hole is aligned with the center of the

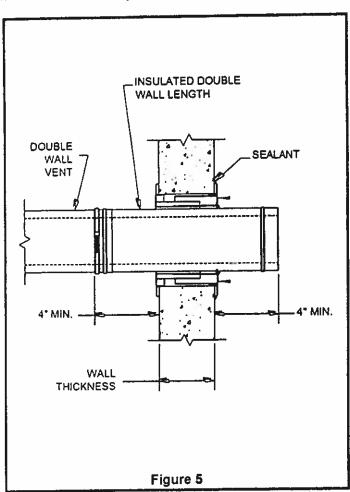
horizontal vent. The opening must be 6" larger than the vents inner diameter.

Install both parts of the Wall Radiation Shield and screw (or nail) them to the frame (see Figure 4). Seal the Wall Radiation Shield perimeter to the exterior wall with caulking to prevent water infiltration. Note: The Wall Radiation Shield will fit wall thickness from 5 3/4" to 10 1/2". For wall thickness smaller than 5 3/4", cut

both sleeves as required. Once installed, an overlap of 1" minimum is necessary.

4





4. Install the vent starting at the appliance. Make sure to install a Horizontal Band every 6 feet (or 8 feet if the outer casings joints are screws together) or after every change in direction of the vent.

5. You will need to install an Insulated Length through the Wall Radiation Shield. The Insulated Length must be at least 8" longer than the wall thickness. Once installed, the Insulated Length must protrude at least 4" from the interior and from the exterior wall surface.

6. Screw the two half plates into the pre punched holes on the Wall Radiation Shield exterior plate (see Figure 5). Those

half plates are supplied with the Wall Radiation Shield.

7. Check the make sure a minimum slope of 1/4" per foot is maintained in the horizontal vent. Seal the Insulated Length's outer casing to the Wall Radiation Shield assembly using high temperature sealant to protect against water infiltration.

8. Install either the Horizontal Termination (miter cut) or the Screened Closure Ring on the Insulated Length.

9. Install the Double Wall Closure Ring to cover the end of the Insulated Length and hold the termination in place.

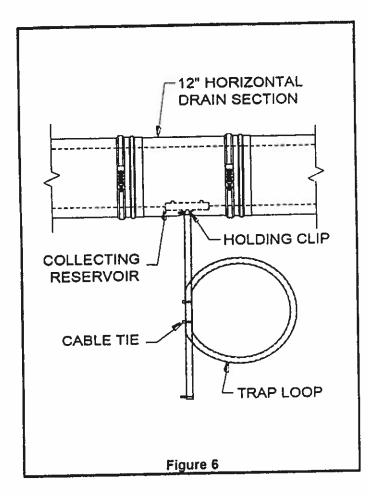
Note: If you are going through a non-combustible wall (concrete wall) you don't need to install the Wall Radiation Shield and the insulated Length as long as proper clearances to combustibles are maintained around the double wall vent. A round opening 1" larger than the vent diameter is sufficient to allow the double wall vent to go through the noncombustible wall. Seal the gap around the vent with a Firestop and high temperature sealant.

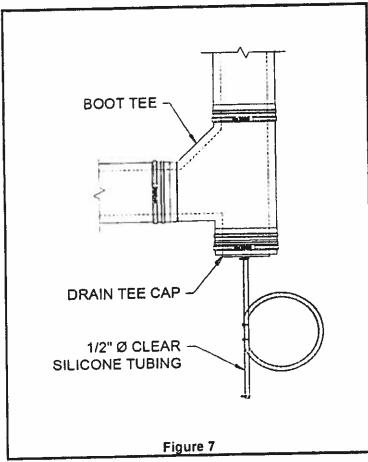
Condensate Drains

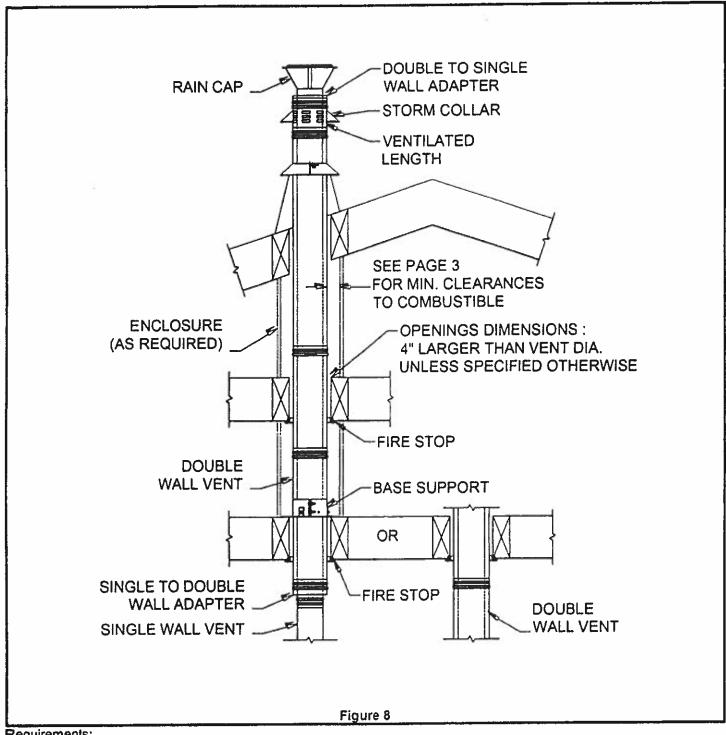
If an internal condensate drain is not part of the appliance, but one is required per the appliance manufacturer's instruction or local code, install a 12" Horizontal Drain Section in the horizontal vent, as close as possible to the appliance flue collar.

A condensate drain is also required at the bottom of a vertical stack.

When installed, the Horizontal Drain Section drain shall be located on the bottom side of the vent system. A ½" diameter Drain Tube is available to direct the condensate to a floor drain. A trap loop must be formed in the drain hose and must be a diameter that is at least four times the appliance's rated stack pressure in inches of water column or a minimum of 3 inches. Secure the loop with a cable tie. Prior to final assembly the trap loop must be 'primed' by pouring a small quantity of water into the drain hose. The same apply to the Boot Tee / Drain Tee Cap on vertical installation.







Requirements:

- Unless installed in a fire rated shaft (enclosure), a Firestop is required when going through floors and ceilings.
- Vertical termination must terminate no less than 2' above the roof. A Rain Cap or other equivalent termination is required to keep rain or debris out of the vent. Either Model VIC Terminations or approved mechanical vent devices that are specified or provided by the appliance manufacturer are permitted.
- When terminated at a height more than 5' above the roof line, the vent must be stabilized using a Guy Band. For a height of more than 20' contact the factory.
- 1. Determine the location of the appliance, floor openings and termination that compiles with both the codes and appliance manufacturer's requirements.

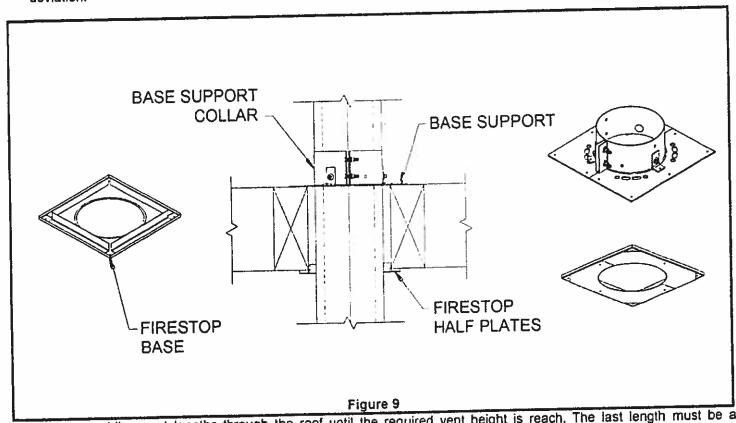
2. Cut and frame square openings in the floor, ceiling and roof where the vent will pass. The openings must be 4" larger than the vent inner diameter. If you are planning to install a Roof Radiation Shield, the roof opening must be 6" larger than the vent inner diameter (see Figure 10).

3. From below, install a Radiation Shield In each floor opening. If you are installing a Base Support on top of the floor you will need to adjust the height of the radiation shield to match the floor thickness. The radiation shield is supplied fully extended. To adjust the radiation shield slide the top tube to the desire height then screw the two sections together with the self tapping screws provided (see Figure 9).

4. Install the vent starting at the appliance.

5. After the vent passes through a floor opening screw the two half plates (supplied with the Radiation Shield) using the pre-punched holes to the Radiation Shield base (see Figure 9). This will seal the gap around the vent and the Radiation Shield.

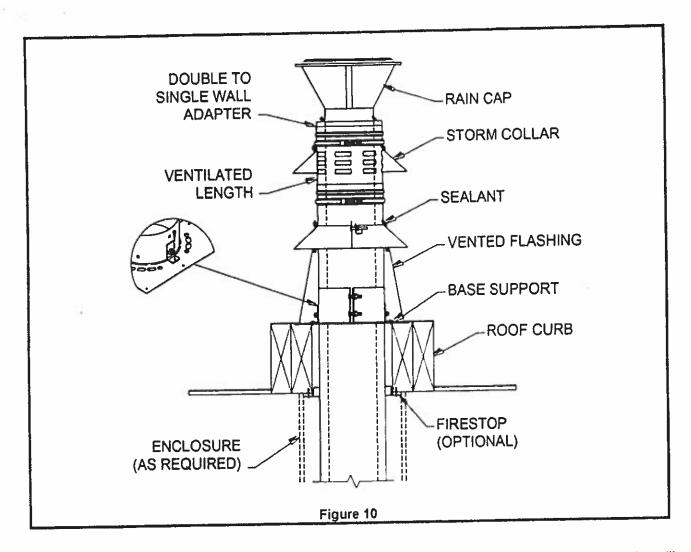
6. If you need to support the vent vertically, a Base Support or a Wall Support can be used. The Base Support is installed on top of a floor. The Wall Support can be installed anywhere in the system. Depending on your system layout one support may be better than another. Remember that a support needs to be installed after a vertical deviation.



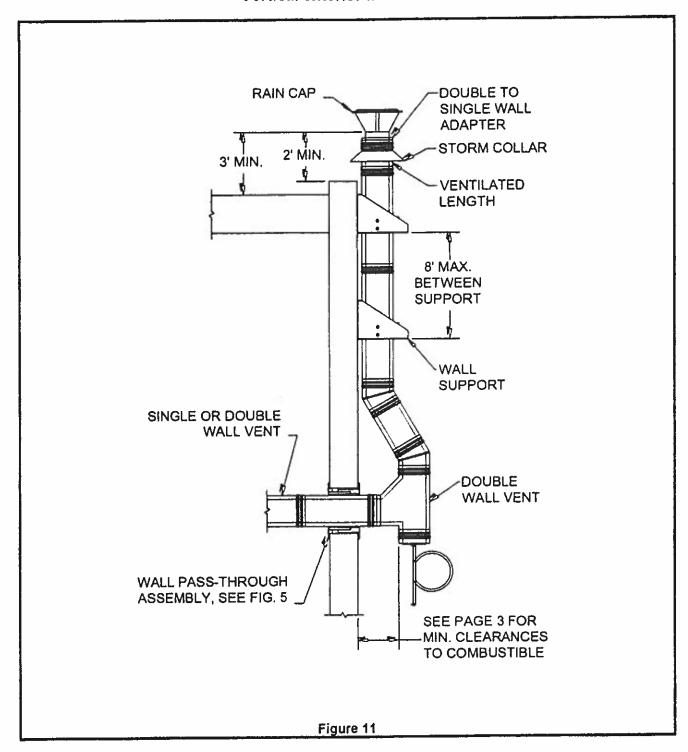
Continue adding vent lengths through the roof until the required vent height is reach. The last length must be a Ventilated Length. The maximum height of un-guyed vent above the roof is 5 feet. If you have more than 5 feet, install a Guy Band to provide stabilization.

8. A Base Support can be installed on top of a roof curb. Screw each support collar bracket to the support base using #10-1/2" or bigger sheet metal screws to provide extra stabilization.

9. Install the appropriate roof flashing for your roof pitch. A vented flashing is required for a combustible roof. Seal the flashing to the roof with roofing tar or silicone sealant. Place a storm collar over the vent and the flashing and over the Ventilated Length to cover the ventilation openings. Tighten them in place. Caulk the joint between the vent and storm collars with silicone sealant (see Figure 10).



10. Put the rain cap over the Ventilated Length and push the Closure Ring onto the Ventilated length before installing the Locking Band. The Rain Cap comes with its own Closure Ring and Locking Band.



Regulrements:

- In cold climates it is not recommended to run single wall vent on the outside of a building. If you have to install a
 condensing vent on the outside of a building we recommend installing a double wall vent or an insulated double
 wall vent. If possible, the double wall vent should be fully enclosed in an exterior chase.
- 1. Follow the Instruction for a horizontal through wall installation, but instead of installing the horizontal termination you will need to install a Boot Tee and a Drain Tee Cap.
- 2. A Wall Support should be installed on the first vertical length after the Boot Tee and every 8' feet after that.

Base Support

The Base Support is the most common support. It can be used on any floor level or on top of a roof curb. The vent must first go through an opening before the support can be installed. Push the two half plates against the vent and screw them to the framing using five #8-1 1/2" screws or another appropriate fastener.

Put the support collar around the vent outer casing above the support base and flush with it. Tighten the collar. The collar can be screw to the vent outer casing using #8-1/2" sheet metal screws.

If desired you can screw the support collar brackets to the support base using #10-1/2" or bigger sheet metal screws. This is mandatory when a Base Support is installed on top of a roof curb.

The Base Support maximum load is 15 ft. of vent.

Wall Support

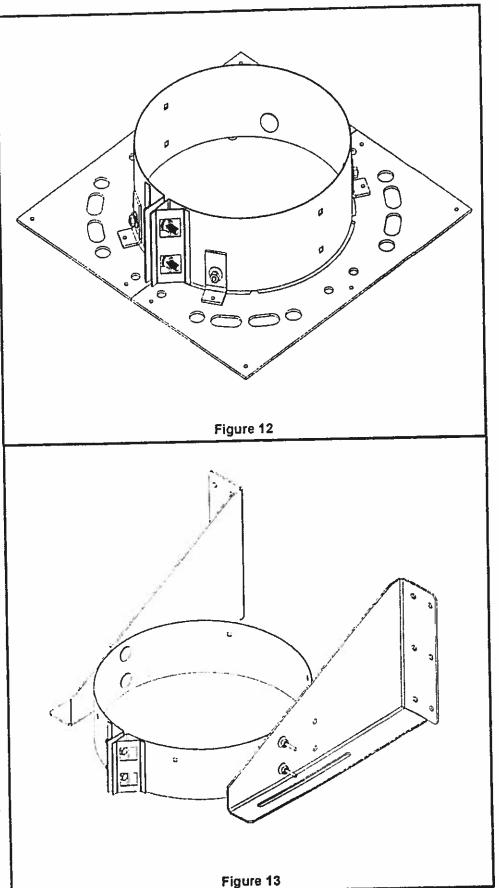
This support is used on a wall when the vent needs to be supported vertically.

Tighten the support collar around the vent. Make sure to insert the four elevator bolts in the appropriate openings in the collar before placing it around the vent. The collar can be screwed to the vent outer casing using #8-1/2" sheet metal screws. Using a level, trace a horizontal mark on the wall where you want to install the wall support brackets.

Fasten both brackets to the wall using six #10-2 1/2" or larger screws.

The Wall Support can also be used to support horizontal run of venting from a ceiling.

The Wall Support maximum load is 15 ft. of vent.



Horizontal Band

The Horizontal Band is a half band made of 10ga. Galvanized steel designed to support the vent when it travels horizontally.

Typically, 1/2" diameter or larger threaded rod and fasteners are used to attach the band to the ceiling structure (not supplied).

Plumber strapping or any other hanging materials with a rating of 500 lbs. or more can also be used.

Typical configurations are shown in Figure 14. To prevent condensation from dripping on the floor never puncture or screw thorough the inner liner of the vent.

The maximum distance between Horizontal Bands is 6 feet (or 8 feet if the joint outer casings are screws together).

Guy Band

The Guy Band may be used to secure a vent above the roof. The maximum length of un-guyed vent above the roof is five feet. The maximum length of guyed vent above the roof is twenty feet. The maximum length of vent between guy bands is ten feet. If height greater than twenty feet is required above the roof, an engineered support system should be installed.

- 1. Place the band collar around the vent length at the desired location. Tighten the collar.
- 2. Attach guy wires to the band and to the roof or ceiling using adequate attachments (not supplied). Tighten the guy wires until the vent is properly located and secure.

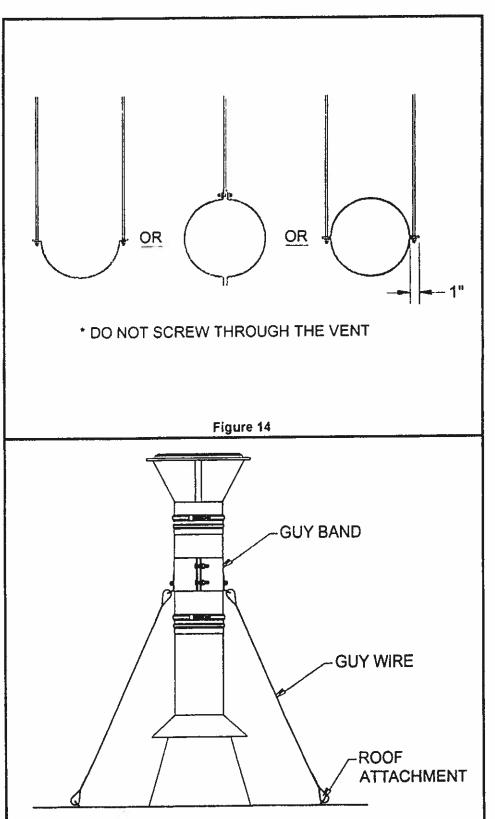
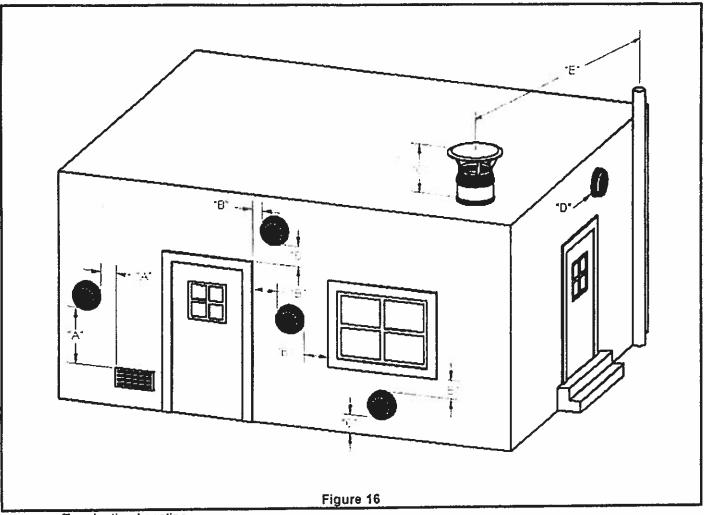


Figure 15

Horizontal termination location



Termination Location:

- o (a) The vent shall terminate at least 3 feet above any forced air inlet located within 10 feet in any direction.
- (b) The vent shall terminate at least 4 feet below, 4 feet horizontally from or 1 foot above AND 3 feet horizontally from any door, window or gravity air inlet into any building.
- o (c) The vent termination shall be at least 12 inches above grade or, in geographical areas where snow accumulates, at least 12 inches above the anticipated snow line.
- (d) Through-the-wall vents for Category II and IV appliances and non-categorized condensing appliances shall not terminate over a public walkway or an area where condensate or vapors could create a nuisance or hazard or could be detrimental to the operation of regulators, relief valves or other equipment.
- o (e) The vent termination shall also be at least 8 feet horizontally from any combustion air intake, located above it.

Model VIC Double Wall - Parts List

| Component Name | AL29-4C | 444 | Note |
|--|--------------|--|--|
| Lengths | | | |
| 48* Length | HC-ØDL4-FD | HC-ØDL4-ED | |
| 36" Length | HC-ØDL3-FD | HC-ØDL3-ED | |
| 24" Length | HC-ØDL2-FD | HC-ØDL2-ED | |
| 12" Length | HC-ØDL1-FD | HC-ØDL1-ED | |
| 6" Length | HC-ØDL6-FD | HC-ØDL6-ED | |
| 24" Adjustable Length | HC-ØDLA2-FD | HC-ØDLA2-ED | |
| 12* Adjustable Length | HC-ØDLA1-FD | HC-ØDLA1-ED | |
| 12" Horizontal Drain Section | HC-ØDLHD-FD | HC-ØDLHD-ED | |
| 12" Inline Test Port Section | HC-ØDIPS-FD | HC-ØDIPS-ED | |
| 12" Ventilated Length | HC-ØDLV-FD | HC-ØDLV-ED | |
| Ø ₁ TO Ø ₂ Increaser | HM-Ø₁DIØ₂-FD | HM-Ø ₁ DIØ ₂ -ED | No. 1997 |
| Elbows & Tees | | | (1) 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) |
| 15° Elbow | HE-ØDE15-FD | HE-ØDE15-ED | |
| 30° Elbow | HE-ØDE30-FD | HE-ØDE30-ED | |
| 45° Elbow | HE-ØDE45-FD | HE-ØDE45-ED | |
| 90° Elbow | HE-ØDE90-FD | HE-ØDE90-ED | |
| 90° Boot Tee | HE-ØDBT-FD | HE-ØOBT-ED | |
| 90° Tee | HE-ØDT-FD | HE-ØDT-ED | |
| Regular Tee Cap | HE-ØDTC-FD | HE-ØDTC-ED | |
| Drain Tee Cap | HE-ØDTD-FD | HE-ØDTD-ED | |
| Supports & Firestops | | | The state of the s |
| Base Support | HM- | ØDBS | |
| Wall Support | | DWS | |
| Horizontal Band | | ØDHB | |
| Firestop | | ØDFS | |
| Wall Radiation Shield | | DWRS | |
| Terminations | | | |
| Rain Cap | HM-ØRC-F | HM-ØRC-E | HM-ØDSA is required |
| Horizontal Termination (Miter Cut) | HM-ØMC-F | HM-ØMC-E | HM-ØDSA is required |
| Screened Closure Ring | HM-ØSCR-F | HM-ØSCR-E | HM-ØDSA is required |
| Excit Cone | HM-ØDEC-FD | HM-ØDEC-ED | |
| Flashing and collar | | | (同學學學可能)也可能是1995年 |
| Flat Flashing | HF. | ØDF | |
| Flashing 1/12 - 7/12 | HF-(| ØDFA | |
| Flashing 8/12 - 12/12 | | ØDFB | |
| Vented Flat Flashing | | DVF | |
| Vented Flashing 1/12 - 7/12 | | DVFA | |
| Vented Flashing 8/12 - 12/12 | | DVFB | |
| Storm Collar | HM- | ØDSC | |
| Accessories | | | 一一一一一次 经验的小比赛 特别的 |
| Locking Band | | ØDLB | |
| Guy Band | | ØDGB | |
| Single to Double Wall Adapter | HM-ØSDA-FD | HM-ØSDA-ED | |
| Double Wall Closure Ring | HM-ØDCR-F | HM-ØDCR-E | |

CONDENSING VENT WARRANTY

15 YEAR LIMITED WARRANTY

Industrial Chimney Company warrants to the original owner that model VIC Condensing Vent will be free of functional failure as a result of defects in materials or workmanship for a period of 15 years. This is a limited warranty subject to the following conditions.

- The system must be installed in accordance with ICC's written installation instructions and applicable building codes.
- The system must be inspected and maintained in accordance with ICC's written installation instructions.
- The system must only be used to vent appliances for which it is designed and certified.
- This warranty does not cover wear and tear that results from normal use, nor does it warranty systems installed in a corrosive environment.

REMEDIES UNDER THIS WARRANTY:

If a properly installed and maintained model VIC Condensing Vent System fails, the owner shall notify ICC in writing and shall not initiate repairs until instructed to do so by an authorized ICC representative. ICC will at its discretion repair, replace, or provide a refund for all defective parts.

ICC is not responsible for the labor costs related to the inspection, removal and replacement of the vent system.

ICC is not responsible for the shipping costs.

ICC is not responsible for any special, consequential, or incidental damage incurred by the owner or its contractors.

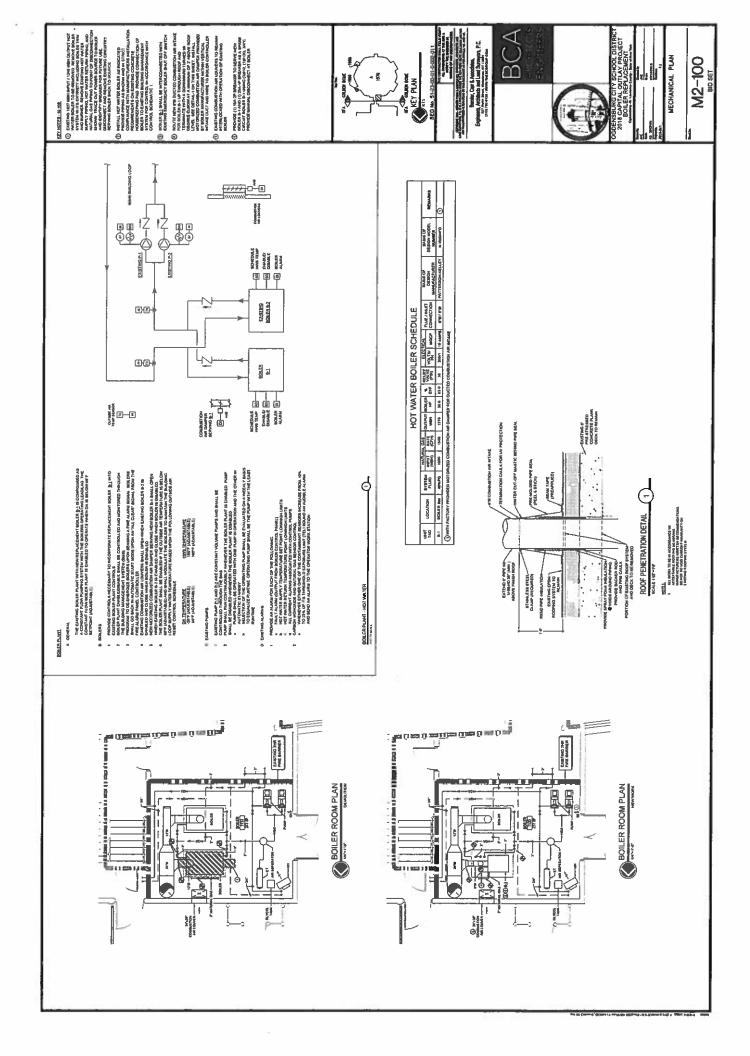
Any parts replaced under this warranty will be covered for the unexpired term of the original warranty.

LISTING

| ւ(ՈՐ) | MODEL / MODELE VIC | DIAMETER DIAMETRE | MAXIYUM APPLIANCE HATCO TEMPERATURE TEMPÉRATURE NOMINALE MAXIMALE DE L'APPAMEIL | FULLY EX- EXCLOISO COM | NAEMENE | UNENCLOSED MONENCLOSOSM MANENCLOSOSM |
|------------|--|--|--|------------------------------|-------------------------|--|
| LISTED | CONDENSING VENT EVENT A CONDENSATION | | | ES TO CO: UAUX AUX | ว ยบรายย | |
| | PREFADRIQUE HOMOLOGUE | The second second | 400 F (204 C) | 3 176 m | \$500 mg | |
| Control on | + Francisco value attacement + erany cas | 3-5" [76 127 = +1 | 430 F (743 C) | 4" y 127 m m | 1 | 1"(21)(5) |
| grand at a | ARTHMATTIS ARE RESIDENCE AND ADDRESS TO A STREET | | 550 F (245°C) | E" iTS | 1 | |
| 177.17 | The restant Assesses is taken be seen | 6-10 1152 252 card | 100 F (140 C) | | | 4 (25 (4) |
| | Mightage to Act to control 1. Act to C. Baylor Labourger, 2006. Self-Control Control Control | 6-121-157-101-110 141-151-111-1 56-20-111-1 | 550 F (22.5 F) | h A | ti A | |
| | A CORRECT CONTROL OF THE CONTROL OF TH | Distance of Distance of Dista | Ann 1967a (1926) Salatharan (1917) ann 1917 Chairman (1917) Galla (1917) an 1917 | L'a heavi | tane di us Testa e a | Postpress |
| | Profession 2: Profession of the County Profession County County (County County | 14 1 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1 2 | 6 | |
| | 91001 | Codit API II | restaint worth of the characters. | 13.17 | | et Start of and |
| | 1 211011 | 124 10 115 14 | 5.500 F 12.50 F 3 | d' comme | to as | |

FORM OF PROPOSAL Ogdensburg City School District 2018 Capital Outlay Project - Boiler Replacement

| The Undersigned | Northern Mechanicals, Inc. | |
|----------------------|---|---------------------------|
| 1110 011001019 | Contractor | <u> </u> |
| 2 Baldwin | Ave., Norwood, NY 13668 | |
| Address | | ZIp Code |
| specifications as pr | nat he has examined and fully comprehends the requirements and intent of the operated by BCA Architects & Engineers, for CONTRACT NO. 1 - MECHANIC, supplies, plant and equipment and other facilities to properly perform the work for | AL to furnish all |
| BASE BID SUM of | of . | ¥: |
| Fifty One | Thousand Six Hundred Dollars and No Centsollars | \$ 51,600.00 ₎ |
| Bid Item No. 1 Fi | Field Directive Allowance | |
| | Five Thousand DOLLARS (| \$ 5,000.00) |
| | | |
| TOTAL BASE BID | D (Base Bid and Bid Item No. 1) | |
| Fifty Six Th | Thousand Six Hundred Dollars and No Cents DOLLARS (| \$ <u>56,60</u> 0.00) |





CHANGE ORDER CERTIFICATION

Must be attached to back of Change Order

FP-COC 09/02, rev 08/06, rev. 04/10 Page One

THE STATE EDUCATION DEPARTMENT THE UNIVERSITY OF THE STATE OF NEW YORK / Albany, NY 12234

Office of Facilities Planning, Room 1060 Education Building Annex Tel. (518) 474-3906 Fax (518) 486-5918 www.emsc.nysed.gov/facplan/

Instructions: This CERTIFICATION is required for all change orders submitted to SED

Fill out all three parts completely.

Change Order Number: 1-01

| Part | One - General Informa | ition |
|-------------------------|---|---|
| | | Provide separate Change Orders for each Project Number |
| SED | Project Number | 5 1 2 3 0 0 0 1 0 0 2 0 1 1 District BEOS Code Building Identification Number Project number |
| Distri | ct & Building Name | Ogdensburg City School District - Golden Dome |
| Туре | of Project | Reconstruction / Alteration Addition & Alteration New Building Other |
| Proje | ct Description | Capital Outlay Project - Boiler Replacement |
| Archi | tect / Engineer firm | BCA Architects & Engineers 327 Mullin Street Watertown, NY 13601 |
| Conta | act Person | Shawn M. Travers, R.A. Principal/Architect (315) 782-8130 stravers@thebcgroup.com |
| Cons | truction Manager firm | BCA Architects & Engineers 327 Mullin Street Watertown, NY 13601 |
| Conta | act Person | Stephen E. Shockley, Project Administrator (315) 782-8130 sshockley@thebcgroup.com name & title phone number & e-mail |
| Distri | ct Contact Person | Kevin Kendall, Supt. of Schools (315) 393-0900 kkendall@ogdensburgK12.org |
| P-4 | * | proce number & e-mail |
| | de the following infor (Nur | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) |
| Provi | de the following infor (Nur Requested By (Who | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) |
| Provi | de the following infor (Nur Requested By (Who Relationship to Proj | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) ect Scope (How is this change related to the original project scope) |
| Provi | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) ect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a |
| A. B. C. | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) ect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) |
| A. B. C. D. | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) sect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) r discovered. |
| A. B. C. D. | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne Mechanical Contracto As part of the Capital | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) sect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) r discovered. Outlay Project, a new boiler was scheduled as per contract drawing M2-100. |
| A. B. C. D. | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne Mechanical Contracto As part of the Capital Upon startup, Mechar was installed to separ | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) sect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) or discovered. Outlay Project, a new boiler was scheduled as per contract drawing M2-100. nical Contractor discovered negative flue pressure within the existing boiler breeching. As such, a new flue ate the two incompatible venting systems, and allow each boiler to operate properly. |
| A. B. C. D. A1 | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne Mechanical Contracto As part of the Capital Upon startup, Mechar was installed to separ | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) sect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) or discovered. Outlay Project, a new boiler was scheduled as per contract drawing M2-100. nical Contractor discovered negative flue pressure within the existing boiler breeching. As such, a new flue |
| A. B. C. D. A1 B1 C1 D1 | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne Mechanical Contracto As part of the Capital Upon startup, Mechar was installed to separ | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) sect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) or discovered. Outlay Project, a new boiler was scheduled as per contract drawing M2-100. nical Contractor discovered negative flue pressure within the existing boiler breeching. As such, a new flue ate the two incompatible venting systems, and allow each boiler to operate properly. et to maintain proper breeching separation between existing natural draft and new forced draft boilers. |
| A. B. C. D. A1 B1 C1 D1 | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne Mechanical Contracto As part of the Capital Upon startup, Mechar was installed to separ Add for new boiler fluc | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) ect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) or discovered. Outlay Project, a new boiler was scheduled as per contract drawing M2-100. inical Contractor discovered negative flue pressure within the existing boiler breeching. As such, a new flue ate the two incompatible venting systems, and allow each boiler to operate properly. et to maintain proper breeching separation between existing natural draft and new forced draft boilers. |
| A. B. C. D. A1 B1 C1 D1 | de the following infor (Nur Requested By (Who Relationship to Proj Basis of Need (Desc Description of Work drawing or both as ne Mechanical Contracto As part of the Capital Upon startup, Mechar was installed to separ Add for new boiler flue Owner requested crec As part of Contract 1 | mation for each individual item in the change order: nber each item if there is more than one and provide additional sheets as necessary.) initiated the change request) sect Scope (How is this change related to the original project scope) ribe why the change is needed) (Provide a detailed description of the work or services provided in the change order. Provide text, a cessary to demonstrate code compliance and the individual cost of each item.) or discovered. Outlay Project, a new boiler was scheduled as per contract drawing M2-100. nical Contractor discovered negative flue pressure within the existing boiler breeching. As such, a new flue ate the two incompatible venting systems, and allow each boiler to operate properly. et to maintain proper breeching separation between existing natural draft and new forced draft boilers. |

Part Three

1

Change order requirements:

- The scope of the change order must relate to the project scope previously approved.
- Dollar amounts applied from allowances toward costs associated with the changes must be provided.
- If the cost of this change order is not within the approved amount as currently established on the SA-4, please provide a Form FP-FI, Request for Revision of Financial Information, with documentation showing the additional authorization of funds.
- Each change order shall be signed by the president of the board of education, the architect/engineer, and the contractor.

2

Certification of the Superintendent of Schools (District Superintendent if a BOCES project)

The following statements are true and correct to the best of my knowledge and belief:

- The revised total cost is within the authorized appropriation for this project.
- Where any work of this change order requires a type or kind of work that is not included in the original contract documents, the school district's attorney has been contacted to assure conformance with the Opinion of the State Comptroller No. 60-505.

2/7/19

Mr. Kevin Kendall, Superintendent of Schools

3

Certification of the Architect or Engineer

The following statements are true and correct to the best of my knowledge and belief:

- Work required by this change order is in accordance with applicable sections of the approved contract documents.
- Any plan, sketch, or attachment referenced in this change order is included herein.
- Work required by this change order is in accordance with applicable provisions of the NYS Uniform Fire
 Prevention and Building Code, State Education Department's building standards, and NYS Department of Labor's
 Code Bule 56.
- Work required by this change order was designed by an architect or engineer who is currently licensed by the State of New York.
- Work required by this change order that involves asbestos-containing building material (ACBM) was
 designed by an architect or engineer who is currently licensed by the State of New York and who is appropriately
 certified as an asbestos designer by the NYS Department of Labor at the time he/she designed the asbestosrelated project.

1.17,19

Mr. Shawn M. Travers, RA

Bernier, Carr & Associates: Engineers, Architects, and Land Surveyors, PC

Architectural / Engineering Firm Name