

INVOICE

Region: 5

Location: VA049

CSS #: 23864

Maximo Work Order No.: 11779

Asset #: NA

Date Issued: 2/7/20

Original Description: Leak from ceiling in Mr. Jackson's office, first floor. Steady drip.

Repairs Needed:

Moore's recommends technician return to site with helper and HVAC technician. The boiler will need to be drained. Replace strainer 4" chilled water line, replacing bad piping after strainer, and reconnecting with mega press fittings. Boiler will need to be refilled and bled of air. Start, test and ensure proper operations. *Moore's will not be responsible for insulation.* Technicians will need a clean work area if furniture or cabinets need to be moved for work area additional costs may apply. **Customer is responsible for any and all non-returnable items and/or restocking charges that apply should the quote be cancelled by the customer, or the scope of work changes in anyway after Moore's has received approval. **

***Update Due to the pipes being in very pitted condition due to water infiltration from the roof. Entire sections of pipe had to be replaced. This resulted in additional costs. We received approval for an additional DNE \$5,000 on top of the previously approved total of \$5,924.97. Below is the final total for the repair and details are attached.

RS Means Line Buildup and Labor Summary (Data Version 2017, Q4):

Quantity	Line Item Number	Description	Labor Hours	Labor Rate/Hr	Materials	Equipment	Total
--	NA	Moore's Total (See attached Detail)	--	--	--	--	\$10,576.95
--	NA	Tidewater Total	4	\$80.00	--	--	\$320.00

Estimate Summary:

Labor Hours	Labor Cost	Material Cost	Equipment	Total Cost	CE Factor	Total Invoice
--	--	--	--	\$10,896.95	100%	\$10,896.95

**CERTIFICATION OF WORK
SERVICE CALL**

(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: VA049

Date of Visit: 7 and 8 May 20

Contractor Personnel on Site:

1. <u>Michael Watts</u>	4. <u>Jeremy Grey</u>
2. <u>Michael Cimino</u>	5. <u>Cory Sandlin</u>
3. <u>Peter Langston</u>	6. <u>Matt Fraser</u>

Service Call Number

CSS# 24334 & 23864 WO# 11965 & 11779

Description of Repairs

Replace/Repair Water Pipe for Chiller

Repair and Coat Drain Pan in AHU 1 and 2

CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: Michael Watts Date: 8 May 20

Signed: Michael Watts

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: Mark Anderson GS-12 Date: 8 May 20

Signed: Mark Anderson

E-Mail: mark.s.anderson7.mil@mail.mil



P.O. BOX 119 • ALTAVISTA, VA 24517

Moore's Electrical & Mechanical Construction, Inc.

SERVICE INVOICE: 467634

BILL TO:
TIDEW003
TIDEWATER, INC
6625 SELNICK DRIVE SUITE A
ELKRIDGE, MD 21075

SHIP TO:
8235892
USARC VA049 CHESTERFIELD
6700 STRATHMORE ROAD
NORTH CHESTERFIELD, VA 23237

INVOICE DATE	CUSTOMER PO	PAYMENT TERMS	REFERENCE #	WORKORDER #	CONTRACT ID
05/13/2020	CSS 23864 WO 11770	Due in 30 Days		COM0126254	

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ITEM ID	DESCRIPTION	QTY	SERV DATE	UNIT PRICE	EXT PRICE	TAX
CMISCX-NON-STOCK ITEM	1/2 BRS CAP	1.00		2.82	2.82	0.00
CMISCX-NON-STOCK ITEM	1/2X2 BRS NIP	1.00		1.96	1.96	0.00
CLABOR-HVAC-REG	REGULAR HVACR LABOR	10.00	5/6/2020	120.00	1,200.00	0.00
CMISCX-NON-STOCK ITEM	3/4X3 BRASS NIPPLE	1.00		4.58	4.58	0.00
CMISCX-NON-STOCK ITEM	CAP	1.00		2.82	2.82	0.00
CLABOR-HVAC-REG	REGULAR HVACR LABOR	7.00	5/15/2020	120.00	840.00	0.00
CMISCX-NON-STOCK ITEM	3/4 BRASS THRD CPLG LEAD FREE	1.00		5.04	5.04	0.00
CMISCX-NON-STOCK ITEM	125 FLG PERF	1.00		253.11	253.11	0.00
CMISCX-NON-STOCK ITEM	15/8X15/2X10 GALV STEEL ELONG HOL	10.00		2.75	27.50	0.00
CLABOR-TRAVEL	OVERTIME PLUMBING LABOR	2.50	5/6/2020	182.00	455.00	0.00
CMISCX-NON-STOCK ITEM	4 GALV STEEL RISER CLAMP	1.00		8.59	8.59	0.00
CMISCX-NON-STOCK ITEM	3/4 CAP	1.00		3.73	3.73	0.00
CLABOR-PLMB-OT1	OVERTIME PLUMBING LABOR	2.00	5/6/2020	180.00	360.00	0.00
CLABOR-PLMB-REG	REGULAR PLUMBING LABOR	8.00	5/6/2020	120.00	960.00	0.00
CMISCX-NON-STOCK ITEM	3/4 HOSE	1.00		35.92	35.92	0.00
CLABOR-PLMB-OT1	OVERTIME PLUMBING LABOR	2.00	5/7/2020	180.00	360.00	0.00
CLABOR-PLMB-REG	REGULAR PLUMBING LABOR	8.00	5/7/2020	120.00	960.00	0.00
CMISCX-NON-STOCK ITEM	4 COUP	1.00		199.29	199.29	0.00
CLABOR-PLMB-REG	REGULAR PLUMBING LABOR	8.00	5/7/2020	120.00	960.00	0.00
CMISCX-NON-STOCK ITEM	3/4X2 NIP	1.00		2.72	2.72	0.00
CMISCX-NON-STOCK ITEM	3/4X2 BRS NIP GBL	1.00		2.72	2.72	0.00
CLABOR-PLMB-OT1	OVERTIME PLUMBING LABOR	0.50	5/6/2020	180.00	90.00	0.00
CLABOR-PLMB-REG	REGULAR PLUMBING LABOR	0.50	5/5/2020	120.00	60.00	0.00
CMISCX-NON-STOCK ITEM	90 ELL PXP	1.00		268.30	268.30	0.00
CLABOR-PLMB-REG	REGULAR PLUMBING LABOR	8.00	5/6/2020	120.00	960.00	0.00



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05/13/2020	CSS 23864 WO 11770	Due in 30 Days		COM0126254	
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CMISCX-NON-STOCK ITEM	1 1/4X3/4 BRS BUSH	1.00		7.98	7.98	0.00
CLABOR-PLMB-OT1	OVERTIME PLUMBING LABOR	1.25	5/7/2020	180.00	225.00	0.00
CMISCX-NON-STOCK ITEM	1/8 FLG PKG	2.00		14.24	28.48	0.00
CMISCX-NON-STOCK ITEM	3/4XCLOSE BRASS NIPPLE LEAD FREE	1.00		2.85	2.85	0.00
CLABOR-PLMB-REG	REGULAR PLUMBING LABOR	5.25	2/18/2020	120.00	630.00	0.00
CMISCX-NON-STOCK ITEM	STD BLK PE STL PIPE	21.00		9.07	190.47	0.00
CLABOR-TRAVEL	OVERTIME PLUMBING LABOR	3.25	5/7/2020	180.00	585.00	0.00
CMISCX-NON-STOCK ITEM	1/2X2 BRS NIP	1.00		1.96	1.96	0.00
CMISCX-NON-STOCK ITEM	3/4X3/4 HOSE	1.00		35.92	35.92	0.00
CMISCX-NON-STOCK ITEM	150# 1/8 FLG PKG	2.00		14.24	28.48	0.00
CMISCX-NON-STOCK ITEM	3/4 BRS CAP	1.00		3.73	3.73	0.00
CMISCX-NON-STOCK ITEM	3/4X4 BRASS NIPPLE	1.00		6.03	6.03	0.00
CMISCX-NON-STOCK ITEM	1 1/4X3/4 BRS BUSH	1.00		7.98	7.98	0.00
CMISCX-NON-STOCK ITEM	3/4 THRD 2PN FP BALL VALVE	1.00		43.19	43.19	0.00
CMISCX-NON-STOCK ITEM	6X6X4 PVC DWV HUB	2.00		42.70	85.40	0.00



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05/14/2020	ADD TO COM012654	Due in 30 Days		COM0131001	

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CMISCX-NON-STOCK ITEM	PVC 4X20 S40 PIPE	40.00		2.45	98.00	0.00
CMISCX-NON-STOCK ITEM	LUBE 1 QT WATER/SWR PIPE	1.00		6.99	6.99	0.00
CMISCX-NON-STOCK ITEM	PVC DWV 45 ELL	2.00		9.06	18.12	0.00
CMISCX-NON-STOCK ITEM	PVC 6 DWV 45 ELL	2.00		33.54	67.08	0.00
CMISCX-NON-STOCK ITEM	MULTI TITE GASKET	1.00		12.70	12.70	0.00
CMISCX-NON-STOCK ITEM	PVC 6 SXH ST 22 1/2 ELL	2.00		42.89	85.78	0.00
CMISCX-NON-STOCK ITEM	PVC 6 DWV HXH 22 1/2 ELL	2.00		44.27	88.54	0.00
CMISCX-NON-STOCK ITEM	SHEAR RING	2.00		17.84	35.68	0.00
CMISCX-NON-STOCK ITEM	6" CI/PL-CI/PL	2.00		14.56	29.12	0.00
CMISCX-NON-STOCK ITEM	CARBIDE RECIP BLD KT	1.00		63.53	63.53	0.00
CMISCX-NON-STOCK ITEM	6X6X4 DWV HUB	2.00		42.70	85.40	0.00
CMISCX-NON-STOCK ITEM	PVC 6 DWV ST 45 ELL	2.00		39.72	79.44	0.00



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QUOTE APPROVAL 5764.97 + ADDITIONAL WORK

Tech: MATTHEW FRASER, Date: 2/18/20 - Get to site check in with Scott. Scott takes me to Mr. Putnams office. Earl Ware meets me on site. Look at boiler drain and determine it can not be replaced. Look at roof penetration and make sure it is the chiller line. Chiller will need to be drained to make necessary repair. Will also replace strainer. Will use victaulic pipe and fittings. Will speak with Whitney and Troy to get a game plan together.

Tech: MATTHEW FRASER, Date: 2/24/20 - This quote will be contingent upon the two valves working to isolate the our work between the two valves. The third man is the HVAC man that Earl Ware will provide to drain down the boiler and to fill it back up and bleed the residual air off. This quote also includes a second trip of two hours for a HVAC Tech. to come out to bleed air if necessary a second time. Room 1043 will need to be cleared out in the corner of where we are working.

Tech: MATTHEW FRASER, Date: 2/24/20 - We will need to access both sides of the wall to replace the strainer. The weight will be substantial to remove and replace with new. If there is a room adjacent to room number 1043 we will need that corner free of furniture and cabinets as well. If the ceiling grids and angle to hold the tiles up need to be removed we will do our best to re-install without damage but our not responsible. We need to have access and work safely. If we need to move furniture, there will be an added cost to the site.

This is also contingent upon the integrity of the pipe we are MEGA-PRESSING back to. If additional pipe needs to be replaced that will be at an additional cost to the site as well, which will in turn need another quote to fix said repair at time pipe needs more replacement than initially thought.

Tech: MATTHEW FRASER, Date: 5/6/20 - Get to site. Check in with Mr. Putnam. Gain access to room 1044 also. Shut system down for chiller. Shut off isolation valves. Check to see if isolation valves hold and they do work. Drain down system into holding tanks. Start to take apart piping and insulation. Remove old strainer and install new one. Cut out old pipe and see pipe is too pitted to press to.

Tech: MATTHEW FRASER, Date: 5/6/20 - We advised Adam Collops That pipe is severely pitted and we recommend



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running the pipe through the roof to toe into good pipe.
We we told to go ahead and hook the pipe up with what we have even though we explained that there is 50/50 chance of leaking.
We will not be responsible or liable for any leaks on this pipe even if this fitting blows off or the pipe leaks.
People have already been advised.

Tech: MATTHEW FRASER, Date: 5/6/20 - At this time they have decided to make the necessary and proper repair, by going through the roof/ceiling to find pipe with good integrity.
We have ordered the necessary material to complete this job.

Tech: MATTHEW FRASER, Date: 5/7/20 - Pick up fittings at win supply warehouse in Prince George Virginia.
Get to site takeoff insulation and metal wrap around pipe on roof.
Find good pipe to tie into, and prep pipe for pressing.
Make supports for when we cut pipe that it does not drop.
Get equipment to roof so that we can cut the pipe and take a proper measurement after we drill around the pipe to loosen the pitch pocket to remove the pipe from the roof into the office.
Cut pipe off and remove pipe from roof.
Take measurements between 90s so that we can cut a pipe and tie in the 90 in Mr. Putnam's office.
Cut pipe take it up on roof install riser clamps so that pipe will not fall through into office.
Press pipe in Mr. Putnam's office and take Equipment up onto roof.
Cut horizontal pipe out and take a measurement between fittings to get new pipe to install in its place.
Mega press new pipe and install new bleed off port on roof.
Install transducer in Mr. Putnam's office.
Pump 9% glycol mixture from Holding tank back into line.
Open all valves in system so that system will be ready to operate and purge air.
We cannot operate system at this point because Moore's HVAC techs or coating the pans up in the attic.

Tech: MATTHEW FRASER, Date: 5/7/20 - Mark Anderson said I could sign the service report. No one is here to sign.

Tech: Mike Watts 5/8/20 - Arrived on site. Started up chiller and checked operations. Everything is running as it should.

For questions regarding commercial invoices please contact our Accounts Receivables Department at 434-309-2581. Past 30 Days invoices are subject to 1.5% monthly interest charge. Additional charges for payments made by credit card may apply. We accept VISA, Master Card, Discover and American Express. Late payments sent to collections or legal process will also result in additional charges.

Sales Total	10,576.95
Disc.	0.00
Tax Total	0.00
Net Amount Due	\$10,576.95

