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Madison Heights Police HVAC Upgrade Phase II 9-25-24

Sean Ballantine

Enclosed are original documents along with a sketch depicting what has to happen in Evidence Test Lab.

To Summarize

- Total Project Base Bid.....\$986,600.00
- RTU's and VAV Takeover.....\$400,985.00
- **TOTAL REMAINING.....\$585,615.00**

Options Completed in Phase I

Replace MUA, MEP Drawings, Duct Cleaning, Replace Tunnel Unit, Replace Radiant, and Crane for changing 5-ton ahead of time

Options Remaining (updated price)

- Replace 8 existing roof exhaust fans.....\$ 16,200.00
 - Women locker changed
 - Indoor fans are not used, not included
- Change diffusers about \$200.00 each. These will vary due to style.
- There is a \$600.00 deduct to have MH handle their own gas upgrade. MH probably have to anyways; gas company will not accept our signatures on papers. The cost is \$300 plus some paperwork which I'll help with that. This upgrade is required, you put in RFP for bidder to cover. This seems redundant for us to cover. (This is based on a conversation I had with Consumers Energy in 2022)
This change will require a gas shut down; I'd guess at 8 hours. I suggest to do this ASAP.

CONCLUSION

After a thorough investigation, the price will remain the same as on 2022 RFP - \$585,615.00

Delivery and Work Scope

Delivery is about 4 – 6 weeks. No extended lead times needed. The plan is to start in boiler room and get that done. Then do the hydronic piping down halls, leaving tees for every box. Then we will do ~ 1-2 box at a time, which will involve getting into each room; change box with minor duct, add hydronic pipe, add controls, and turn on – no electric anymore on that box. To achieve this, we will need to get clear about a 10'x10 area under each box, for construction and safety purposes. We will coordinate with Police Department and MH areas needed as project progresses. There are some boxes that are less invasive.

Plan on 4 months construction time

FORMS V through XI TO BE FILLED BY THE BIDDER:

V. PRICING PAGE:

City of Madison Heights R.F.P. # M.H. 22-05:

Pricing and Warranty Page – Pricing is to be all-inclusive, and shall include all engineering, design, materials, installation, disposal and all necessary Labor. Pricing shall be held for one-hundred twenty days (120 days)

Warranty Period – Materials 1 Year Warranty Period – Labor 1 Year

Pricing Table			
<u>Base Scope</u>	<u>\$ Material</u>	<u>\$ Labor</u>	<u>Total in USD</u>
Base Scope Service as described in the Scope of Work section C (1)	\$560,000-	\$426,600-	\$986,600-
<u>Add Alternates</u>	<u>\$ Material</u>	<u>\$ Labor</u>	<u>Total in USD</u>
Add alternate 1: Third-party commissioning for the base scope service listed in the Scope of Work section C (1)	N/A	N/A	\$28,000-
Add alternate 2: Replacing the existing make-up air unit for the basement shooting range	\$23,400-	\$7,000-	\$30,400-
Add alternate 3: Supply and exhaust systems duct cleaning for all airside systems	N/A	N/A	\$17,160-
Add alternate 4: Replacing the heating and cooling unit for the tunnel that connects the Police Department to the City Hall	\$7,000-	\$5,000-	\$12,000-
Add alternate 5: Replacing two garage gas-fired infrared unit heaters	\$4,500-	\$2,500-	\$7,000-
Add Alternate 6: roof penetrations (If new RTU's or exhaust ventilation require modifications to existing curbing and/or penetrations)	N/A	N/A	N/A
Add alternate 7: Base Scope Service alternative if any (Use NA if not applicable) <u>*Brief description of the proposed alternative for the base scope:</u> Replace 13 Existing Exhaust Fans	\$14,000-	\$4,000-	\$18,000- ↓
Alt 8: Above Base Price includes hydronic CUH except CUH-4, CUH-9A & CUH-9B. Those will be <u>new electric</u> . Based on size & location they are less practical to change to Hydronic. Add to make hydronic.	\$11,000-	\$20,000-	\$31,000-
Alt 9: Base Bid includes \$600- for gas upgrade (Actual cost - \$300 - see Attached) \$600- Deduct if Madison Heights handles upgrade with utility company. Denny's will complete paperwork & do gas 12 connections for new meter.	N/A	N/A	<\$600->

Good morning!

I am happy to report that City Council approved the Phase 1 plan for the Police Department. This was submitted and approved for the following:

Proposal dated 3/6/23 for rooftop units and box takeovers: \$400,985

Option 1 – Replace Make-Up Air Unit: \$28,755

Option 2 – Complete HVAC and Electrical Drawings for future hydronic system: \$19,200

Original Proposal Alternate 3 – Supply and exhaust duct cleaning for all airside systems: \$17,160

Original Proposal Alternate 4 – Replace HVAC for the tunnel: \$12,000

Original Proposal Alternate 5 – Replace 2 garage gas-fired infrared unit heaters: \$7,000

For a total of \$485,100.

A purchase order will be forthcoming. Looking forward to getting this project started!



Purchase Order

Vendor No. V03546	Date 03/28/2023	Purchase Order No. 000001887	Page 1
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V DENNY'S HEATING COOLING & REFRIGERAT
 E 1831 AUSTIN DRIVE
 N TROY, MI 48083
 D
 C
 R

S H POLICE DEPARTMENT
 I P 280 WEST 13 MILE RD
 T MADISON HEIGHTS, MI 48071
 C

B City of Madison Heights
 I c/o Accounts Payable
 L 300 W 13 Mile Rd
 L Madison Heights, MI 48071
 T Phone (248) 583-0845
 O

QTY	UNIT	DESCRIPTION	AMOUNT
1		PHASE 1 HVAC PROJECT PD RFP 22-05 101-301-987-0000	485,100.00

ACCEPTANCE- THE DELIVERY OF ANY MATERIAL OR SUPPLIES HEREUNDER, OR THE PERFORMANCE OF ANY PART OF THE SERVICE SPECIFIED HEREIN, SHALL CONSTITUTE AN UNQUALIFIED ACCEPTANCE HEREOF BY ACCEPTANCE OF THIS PURCHASE ORDER. THE SELLER AGREES THAT IT HAS AND WILL COMPLY WITH ALL LAWS AND ALL RULES AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY APPLICABLE TO THE GOODS OR SERVICES TO BE FURNISHED HERE UNDER.

The City of Madison Heights is exempt from Federal Excise and Michigan Sales and Use Taxes.
 # B38-6025685

PURCHASE ORDER
 TOTAL -----> \$485,100.00

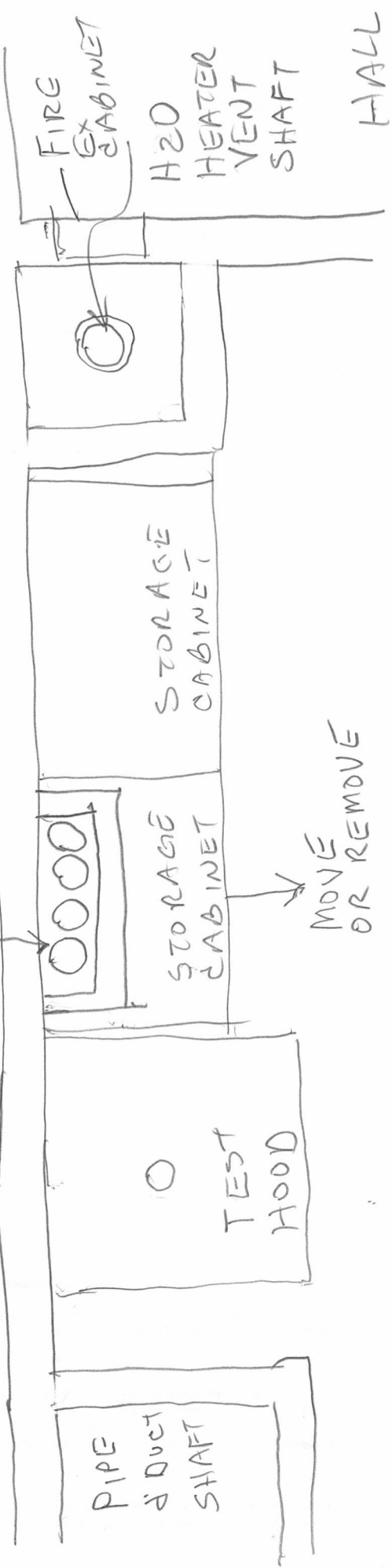
J. Ngjat

PURCHASING COORDINATOR

leaw

FINANCE DIRECTOR/TREASURER

NEW BOILER PIPE N. W.
SHAFT & PIPES STAIRWAY



EVIDENCE TEST LAB