

Addendum No. 1
Four Rivers Sanitation Authority
Lab Building HVAC Upgrades, Capital Project No. 2202

This Addendum Number 1, dated November 29, 2023, for the above referenced project, supersedes all contrary and conflicting information in the specifications and contract documents, which are hereby supplemented or revised as follows:

GENERAL INFORMATION

Minutes and sign-in sheet of the mandatory pre-bid meeting held on November 20, 2023 are attached to this addendum.

PLAN SHEETS

Remove Plan Sheet M-2, M-3, M-4, M-5, M-6, M-9, and M-10. Replace with attached revised sheets.

- Note the revised plan sheets show the routing of the refrigerant lines from the air handling unit in the boiler room to the condenser on the south side of the building. Any demolition of the refrigerant lines will require full restoration.
- The refrigerant lines are in a drywall chase and above the drop ceiling. Any removals of said drywall and drop ceiling shall be restored to original condition before being disturbed.
- Note all existing ducts shown shall be cleaned. See revised sheets M-2 and M-3.

PROJECT MANUAL

Section 23 09 23-6: Paragraph 2.1.A

- Remove “Schneider Electric USA, Inc. – Basis of Design” and “KMC Controls, Inc.”
- Add “The control manufacturer contractor shall be Technical Solutions & Services Incorporated; no substitutions.”
- Add: “Building Automation System shall be Technical Solutions & Services Incorporated’s Distech Controls Tridium Niagara N4 EC-Net 4 based control system.”

This information shall be taken into consideration when preparing your bid. Bidders shall acknowledge all project addenda. This addendum will be emailed to all plan holders as well as posted to FRSA’s website at fourrivers.illinois.gov.

End of Addendum No. 1

Issued November 29, 2023

Four Rivers Sanitation Authority



Christopher T. Baer, PE
Director of Engineering

**Lab Building HVAC Upgrades
Capital Project No. 2202
Bid Doc. No. 23-412**

**Mandatory Pre-Bid Meeting
2:00 p.m. on Monday, November 20, 2023**

I. General

A. Attendance Sheet.

B. The Lab Building HVAC Upgrade project consists of removal and replacement of air a make-up unit, and lab exhaust fan. The existing building HVAC control will be upgraded from DDC along with the existing phoenix lab control system.

II. Contract

A. Bids are due at 1:00 p.m. on Friday, December 8, 2023, at Four Rivers Sanitation Authority (FRSA) Steve Graceffa Administration Building located at 3501 Kishwaukee Street, Rockford, Illinois, at which time they will be read aloud.

a. All submitted Bids shall include the following:

i. Proposal

ii. FRSA Bid Bond form with an acceptable Bid Security (such as a bid bond, cash bond, irrevocable letter of credit, surety bond, or letter of commitment issued by a bank, savings and loan association, surety, or insurance company), in the amount of five percent (5%) of the total bid price.

iii. Fair Employment Practices Affidavit of Compliance.

iv. Contractor Statement of Qualifications. See Part 3.8 of Article Two *Instructions to Bidders*.

B. This is a lump sum contract. All work that is necessary to complete the project that is not specifically addressed in the bid documents will be considered incidental to the work.

C. The Apparent Low Responsive-Responsible Bidder will be required to submit a *Schedule for Values* within twenty-four (24) hours upon FRSA request.

D. Tentative award date is December 18, 2023.

E. Project Schedule Requirements/Completion Date:

Substantial completion (All HVAC equipment installed and fully-functional) shall be August 23, 2024.

Final completion shall be September 13, 2024.

F. Warranty for all constructed work is two (2) years.

G. Insurance and Bonding documentation shall be provided to FRSA no more than ten (10) calendar days after the Notice of Award is issued.

H. Submittals requirements:

1. Construction Schedule and Shop Drawing Submittals are due within fifteen (15) days of Notice to Proceed.
2. Progress Payments: Pay requests should be submitted electronically to FRSA by the 5th day of the month for consideration of that month's Board Meeting. If approved, payment will be made by the 5th day of the following month.

III. Access and Temporary Utilities

- A. Work hours shall be 6:30 A.M. to 5:00 P.M. Monday through Friday, excluding FRSA Holidays. No work can be performed outside of the designated work hours without written approval from FRSA. Requests to work outside designated hours shall be made two (2) business days in advance.
- B. Contractor parking/staging shall be in designated areas only as coordinated with FRSA.

IV. General Construction

- A. All work shall be in accordance with the contract documents as specified.
- B. Contractor is responsible for repair of any property damaged in construction.
- C. FRSA reserves the right to salvage rights for any item removed.

V. Facility Walk - Through

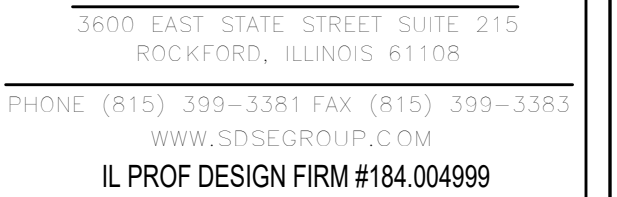
- A. Site Visit

VI. Questions

- A. Does FRSA know the routing of the refrigerant lines from the air handling unit in the boiler room to the condenser on the south side of the building?

Answer: FRSA will investigate and address this question by Addendum.

Place: FRSA Administration Building, 3501 Kishwaukee Street, Rockford, IL 61109



Four Rivers Sanitation Authority
3333 Kishwaukee Street
Rockford, Illinois 61109

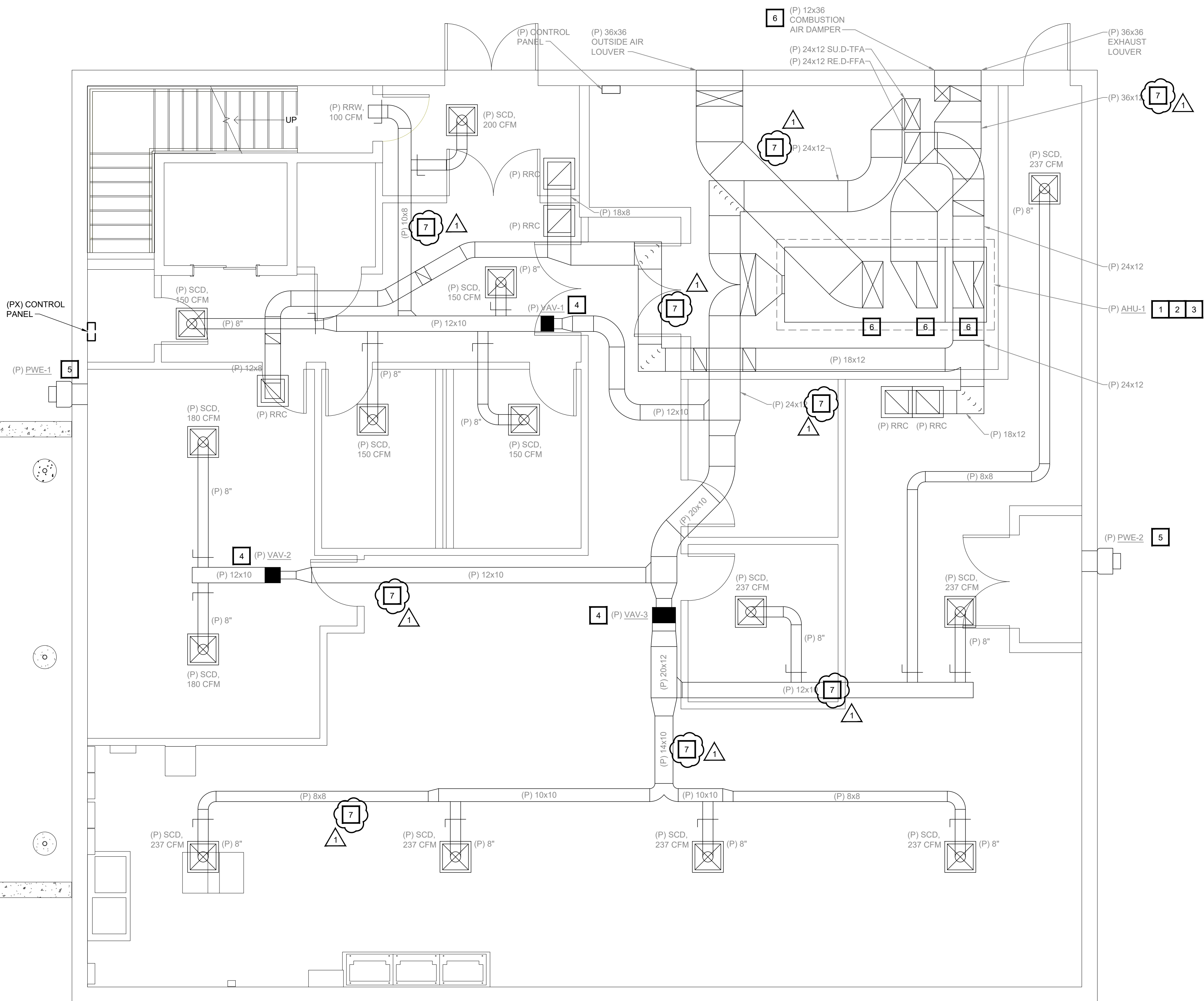
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LOWER LEVEL DUCTWORK DEMOLITION

PROJECT NUMBER:	
FRSA 2202 (SDSE 22-054)	
DATE:	NOVEMBER 8, 2023
DR BY:	SDS
CK BY:	SDSE

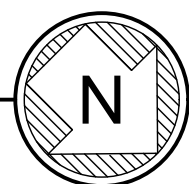
M2

SCALE: AS NOTED



LOWER LEVEL FLOOR PLAN - DUCTWORK

SCALE: 1/4" = 1'-0"



REMOVAL NOTES

1. REMOVE (PX) MOTOR, BELTS, PULLEYS, BEARINGS, FILTERS, ETC. EXAMINE SHAFT AND BLOWER WHEEL FOR DAMAGE OR WEAR. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
2. REMOVE (PX) EXISTING DAMPER ACTUATOR AND ASSOCIATED WIRING FOR EXISTING OUTSIDE AIR, EXHAUST AIR, AND RETURN AIR DAMPERS. ALL AHU DAMPERS TO REMAIN AND BE CLEANED. REMOVE AND REINSTALL DUCTWORK AS REQUIRED FOR ACTUATOR REMOVAL AND DAMPER CLEANING. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
3. REMOVE (PX) EXISTING DX COOLING COIL AND ASSOCIATED REFRIGERANT PIPING TO OUTDOOR CONDENSER.
4. REMOVE (PX) EXISTING DAMPER ACTUATOR AND ASSOCIATED WIRING FROM EXISTING VAV BOX. REMOVE AND REINSTALL DUCTWORK AS REQUIRED FOR ACTUATOR REMOVAL.
5. REMOVE (PX) EXISTING CONTROLS FOR EXISTING EXHAUST FAN.
6. REMOVE (PX) EXISTING DAMPER ACTUATOR AND ASSOCIATED WIRING FOR EXISTING DAMPER. DAMPER SHALL REMAIN AND BE CLEANED. REMOVE AND REINSTALL DUCTWORK AS REQUIRED FOR ACTUATOR REMOVAL AND DAMPER CLEANING.
7. EXISTING DUCTS SHOWN SHALL BE THOROUGHLY CLEANED, TYPICAL FOR ALL DUCTS SHOWN.





Four Rivers Sanitation Authority
3333 Kishwaukee Street
Rockford, Illinois 61109

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UPPER LEVEL DUCTWORK DEMOLITION

PROJECT NUMBER:
FRSA 2202 (SDSE 22-054)

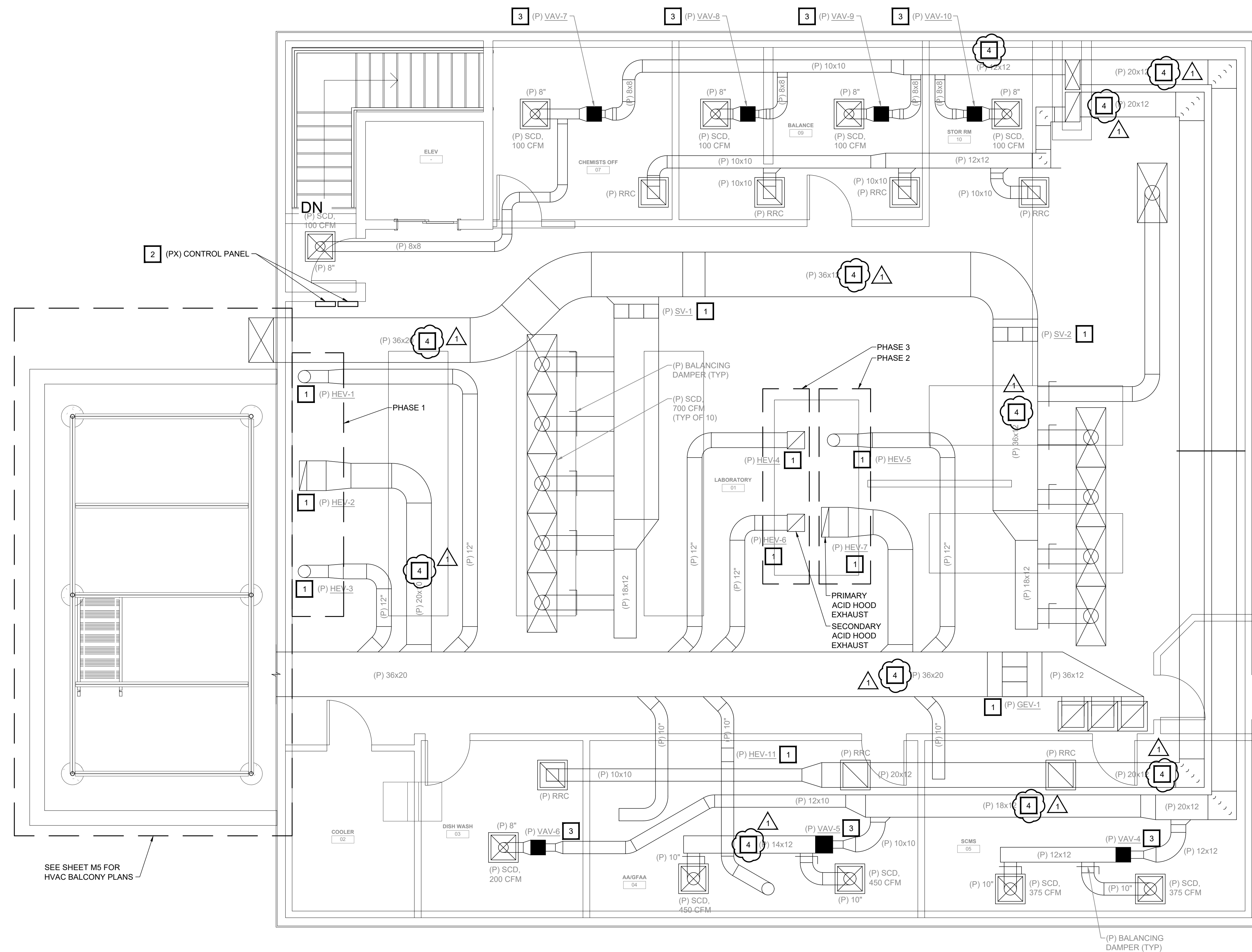
DATE: NOVEMBER 8, 2021

DR BY: _____ SD _____

CK BY:	SDS
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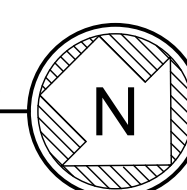
M3

SCALE: AS NOTED



UPPER LEVEL FLOOR PLAN - DUCTWORK

SCALE: 1/4" = 1'-0"



REMOVAL NOTES

1. REMOVE (PX) EXISTING PNEUMATIC CONTROLLER, CONTROLS, AND ASSOCIATED TUBING FOR EXISTING PHOENIX AIR VALVE.
2. REMOVE (PX) EXISTING PHOENIX AIR VALVE CONTROL PANELS AND ASSOCIATED TUBING.
3. REMOVE (PX) EXISTING DAMPER ACTUATOR AND ASSOCIATED WIRING FROM EXISTING VAV BOX. REMOVE AND REINSTALL DUCTWORK AS REQUIRED FOR ACTUATOR REMOVAL.
4. EXISTING DUCTS SHOWN SHALL BE THOROUGHLY CLEANED, TYPICAL FOR ALL DUCTS SHOWN.

GENERAL NOTES

1. PERFORM WORK ON HOODS IN 3 PHASES AS OUTLINED ON DRAWINGS.
2. ONE ACID HOOD MUST BE AVAILABLE DURING EACH PHASE.
3. NO CONSTRUCTION SHALL BE PERFORMED DURING IEPA AUDIT.
4. SCHEDULED FOR 3/19/2024 - 3/21/2024.
5. HOOD PHASING SHUTDOWNS SHOULD BEGIN ON CALENDAR QUARTERS.
6. COORDINATION REGARDING HOOD SHUTDOWNS SHALL BE DONE THROUGH WARREN ADAM, 815-871-0787.

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DATE:	NOVEMBER 8, 2023
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SCALE: AS NOTED



1. REMOVE (PX) EXISTING HOT WATER CONTROL VALVE AND ASSOCIATED WIRING FROM EXISTING HOT WATER COIL AND CLEAN AND FLUSH EXISTING HOT WATER COIL. REMOVE AND REINSTALL HWS/HWR PIPING AS REQUIRED FOR CONTROL VALVE REMOVAL AND COIL CLEANING. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
2. REMOVE (PX) EXISTING WALL MOUNTED THERMOSTAT AND WIRING BACK TO UNIT.
3. REMOVE (PX) EXISTING CONTROLS FOR EXISTING EQUIPMENT.



LAB BUILDING
HVAC SYSTEM REPLACEMENT

Four Rivers Sanitation Authority
3333 Kishwaukee Street
Rockford, Illinois 61109

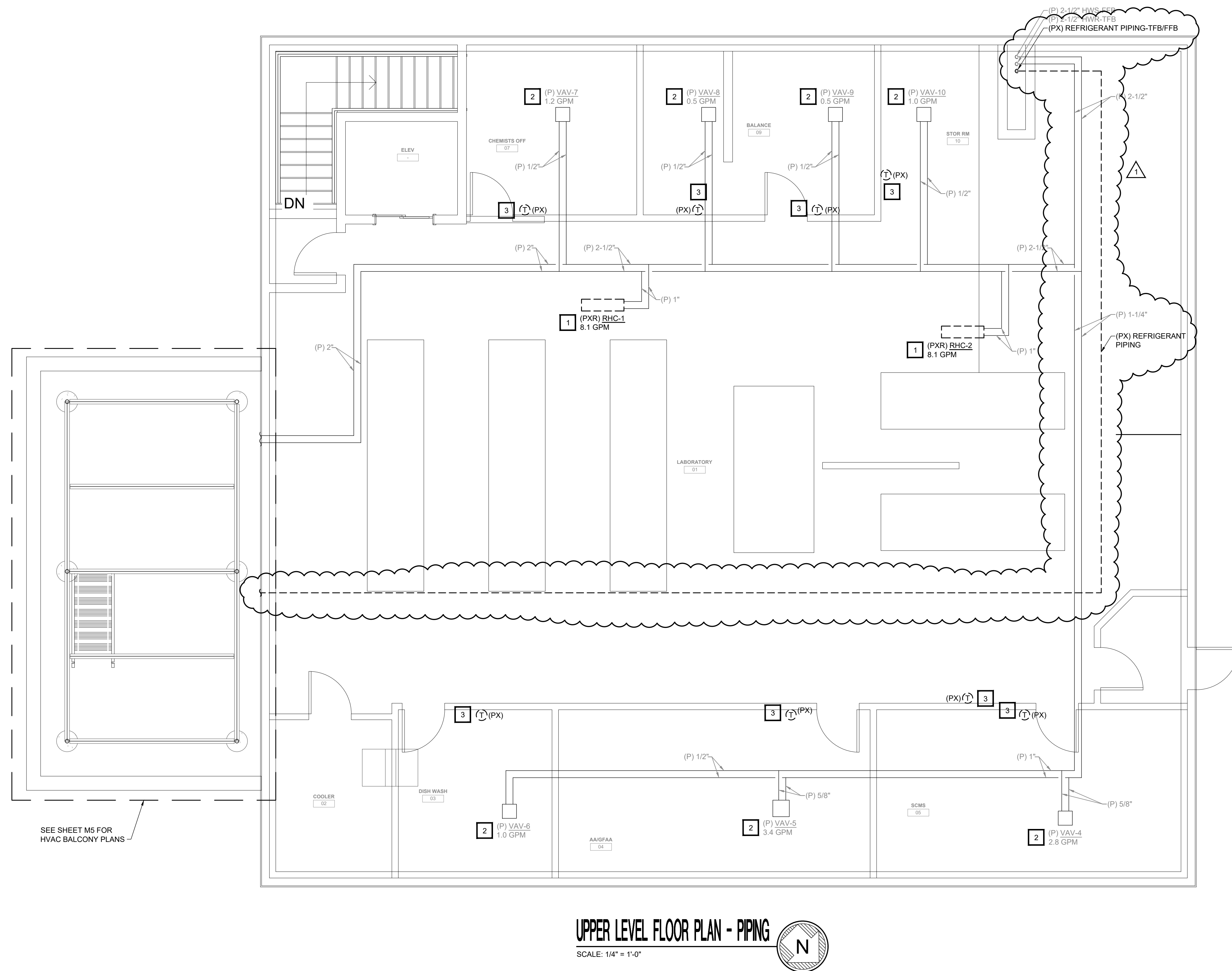
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UPPER LEVEL PIPING DEMOLITION

PROJECT NUMBER:	
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DATE:	NOVEMBER 8, 2023
DR BY:	SDS
CK BY:	SDSE

M5

SCALE: AS NOTED



REMOVAL NOTES

1. REMOVE, CLEAN, AND RE-INSTALL (PXR) EXISTING HOT WATER COIL. REMOVE (PX) EXISTING HOT WATER CONTROL VALVE AND ASSOCIATED WIRING FROM EXISTING COIL. REMOVE AND REINSTALL HWS/HWR PIPING AS REQUIRED FOR HOT WATER COIL AND CONTROL VALVE REMOVAL. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
2. REMOVE (PX) EXISTING HOT WATER CONTROL VALVE AND ASSOCIATED WIRING FROM EXISTING HOT WATER COIL AND CLEAN AND FLUSH EXISTING HOT WATER COIL. REMOVE AND REINSTALL HWS/HWR PIPING AS REQUIRED FOR CONTROL VALVE REMOVAL AND COIL CLEANING. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
3. REMOVE (PX) EXISTING WALL MOUNTED THERMOSTAT AND WIRING BACK TO UNIT.



SCALE: AS NOTED

IL PROF DESIGN FIRM #184.004999

LAB BUILDING
HVAC SYSTEM REPLACEMENT

Four Rivers Sanitation Authority
3333 Kishwaukee Street
Rockford, Illinois 61109

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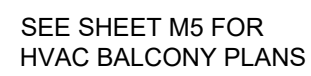


1. PROVIDE AND INSTALL NEW ELECTRONIC DDC MODULATING CONTROL VALVE/ACTUATOR FOR EXISTING HOT WATER COIL. PROVIDE NEW PIPING CONNECTIONS AS REQUIRED FOR INSTALLATION OF CONTROL VALVE. BALANCE CONTROL VALVE TO GPM AS SHOWN. RE-INSULATE PIPING THAT WAS REMOVED AND REINSTALLED OR REPLACED. HW COIL SHALL BE CLEANED AND FLUSHED. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
2. CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRONIC DDC WALL MOUNTED TEMPERATURE SENSOR AND ASSOCIATED WIRING. SENSOR SHALL HAVE DIGITAL READOUT AND LOCAL TEMPERATURE OVERRIDE CAPABILITIES (+/- 3 DEGREES).
3. CONTROLS CONTRACTOR TO PROVIDE NEW BACNET CONTROL CARD FOR EXISTING UNIT TO TIE INTO NEW MCS.
4. INSTALL NEW ELECTRONIC DDC DIFFERENTIAL PRESSURE SENSORS FOR AUTOMATIC PUMP CHANGEOVER UPON PUMP FAILURE. INSTALL NEW HEADER SUPPLY AND RETURN TEMPERATURE SENSORS.
5. NEW DDC OUTDOOR AIR TEMPERATURE SENSOR, TO BE TIED INTO MCS.
6. REFILL BOILER SYSTEM WITH GLYCOL/WATER. COMPLETE WATER TREATMENT AFTER SYSTEM IS FILLED.

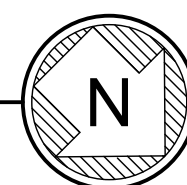
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CK BY:	SDSE

SCALE: AS NOTED



SCALE: 1/4" = 1'-0"



1. RE-INSTALL (PXR) CLEANED HOT WATER COIL, PROVIDE AND INSTALL NEW ELECTRONIC DDC MODULATING CONTROL VALVE AND ACTUATOR FOR EXISTING HOT WATER COIL. PROVIDE NEW PIPING CONNECTIONS AS REQUIRED FOR INSTALLATION OF CONTROL VALVE. BALANCE CONTROL VALVE TO GPM AS SHOWN. RE-INSULATE PIPING THAT WAS REMOVED AND REINSTALLED OR REPLACED.
2. PROVIDE AND INSTALL NEW ELECTRONIC DDC MODULATING CONTROL VALVE/ACTUATOR FOR EXISTING HOT WATER COIL. PROVIDE NEW PIPING CONNECTIONS AS REQUIRED FOR INSTALLATION OF CONTROL VALVE. BALANCE CONTROL VALVE TO GPM AS SHOWN. RE-INSULATE PIPING THAT WAS REMOVED AND REINSTALLED OR REPLACED. HW COIL SHALL BE CLEANED AND FLUSHED. SEE SPECIFICATION 23 01 30 "HVAC REFURBISHING".
3. CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRONIC DDC WALL MOUNTED TEMPERATURE SENSOR AND ASSOCIATED WIRING. SENSOR SHALL HAVE DIGITAL READOUT AND LOCAL TEMPERATURE OVERRIDE CAPABILITIES (+/- 3 DEGREES).