



The Tulalip Tribes of Washington

REQUEST FOR QUALIFICATIONS AND PROPOSALS

**Tulalip Tribes Health Clinic
Mechanical Systems Repair and Upgrade**

Commissioning Agent Services

March 11, 2026

TULALIP TRIBES OF WASHINGTON

6406 Marine Drive, Tulalip, WA 98271

1. INTRODUCTION & SCOPE

The Tulalip Tribes is seeking a qualified firm to complete Commissioning Agency Services (CxA) for a building-wide mechanical systems upgrade/replacement for the Health Clinic located at **7520 Totem Beach Rd, Tulalip, WA 98271**. The current HVAC for the facility is at end of life, and the Tribes are electing to replace the system in a manner that aligns the Health Clinic for future Joint Commission Accreditation. The CxA will work with the Design/Build Contractor during all phases of the work including but not limited to validation of the design by proposed by the Design/Build Contractor.

Proposals are to be addressed to:

Crystal Reyes, Grants & Contracts Manager
Tulalip Health System
7520 Totem Beach Rd. Tulalip, WA

Point of contact for the RFP process is:

Andrea Daly, Project Manager, Wenaha Group
AndreaD@wenahagroup.com
(253) 455-3374

Point of contact to schedule site visits is:

Andrea Daly, Project Manager, Wenaha Group
AndreaD@wenahagroup.com
(253) 455-3374

Proposal Scope & Requirements:

All costs incurred in the preparation and submission of a proposal including site visits, interviews, and contract negotiations are the sole responsibility of the proposer. The Owner assumes no liability for any such expenses. This Request for Proposal does not oblige the Owner to award a contract. The Owner reserves the right to reject any or all proposals, waive informalities, and modify or cancel this solicitation at its sole discretion.

Commissioning Scope of Work:

General Responsibilities

- Serve as an independent advocate for the Owner to verify performance and integration of new and existing HVAC systems.
- Coordinate with the Owner, design-build contractor, controls contractor, and TAB (Testing, Adjusting & Balancing) provider.
- Maintain documentation and provide regular updates to the Owner.
- Comply with Joint Commission standards and provide subsequent documentation for Accreditation as needed.

Commissioning Plan & Meetings

- Develop a Commissioning Plan tailored to the scope of retrofit and replacement work.
- Lead or attend commissioning coordination meetings with project stakeholders.

- Develop a commissioning schedule aligned with contractor's work plan and Owner occupancy.

Document Review

- Review available as-built documents and equipment schedules for existing systems.
- Review contractor's submittals for the new air handlers, boilers, chiller, controls, TAB plan, and other mechanical components.
- Review BAS sequence of operations and programming updates.

Existing Equipment Commissioning

- New equipment may interface with existing MEP systems. Please include scope for commissioning existing equipment reasonably based off the design documents.

New Equipment Commissioning

- Witness equipment startup and verify installation matches design intent. Confirm sensor placement, piping, electrical connections, and controls.
- Review pre-functional check-list and manufacturer start-up.
- Develop and witness functional testing, including: Startup/shutdown sequences, Heating and cooling mode transitions, Load response, Fault conditions.
- Verify manufacturer training is provided to Owner's staff.

BAS Programming Review & Functional Testing

- Review BAS sequences as requested by client. Possibly SOO might include: Seasonal transitions, Setpoint reset strategies, Scheduling and occupancy control.
- Perform point-to-point verification of key BAS inputs/outputs.
- Develop and witness functional performance testing (FPT) of representative system modes.

Air Balancing Verification

- Review TAB plan and final TAB report.
- Witness a sampling of air balancing at air handlers and representative zones.
- Confirm alignment of airflows with updated control strategies.

Deficiency Tracking & Resolution

- Maintain and update a Commissioning Issues Log.
- Work with contractors and Owner to track, document, and verify resolution of deficiencies.

Final Commissioning Report

- Provide a Final Commissioning Report that includes: Executive summary, test procedures and results, verified sequences of operation, list of open/unresolved issues, recommendations for ongoing monitoring.
- Deliverables
- Commissioning Plan
- Review of Contractor provided pre-functional checklists
- Functional test procedures
- Commissioning Issues Log (running and final versions)
- Final Commissioning Report with documentation and verification forms

Joint Commission Accreditation

- Ensure proper ventilation, filtration, pressure relationships, humidity, and temperature in patient care environments as noted in the design classifications.
- Backcheck or confirm compliance with:
 - ASHRAE 170 (Ventilation of Health Care Facilities)
 - NFPA 99 (Health Care Facilities Code)
 - FGI Guidelines
- Coordinate commissioning activities to avoid disruption to clinical operations.
- Comply with Infection Control Risk Assessment (ICRA) procedures established by Contractor.
- Any other deliverables or documentation required to comply with Joint Commission Accreditation requirements.

2. SCHEDULE

Issue RFP	March 11 th , 2026
Last Day for Questions	March 20 th , 2026
Proposal Due	March 26th, 2026 @ 2:00 pm PST
Anticipated Award	April 3 rd , 2026

3. SITE VISIT

If a site visit is requested by the consulting party, please contact Andrea Daly at AndreaD@wenahagroup.com or 253-455-33274 to schedule.

4. SUBMITTAL REQUIREMENTS

The following categories will be used to evaluate the proposals received. The proposal will be organized to align with the categories below and only information specific to the project will be reviewed.

Section	Description	Page Limit	Evaluation Points
1.	<u>Cover Letter</u>	1	0
2.	<u>Mandatory Attachments (Sign for acknowledgement):</u> Attachment A – Professional Services Agreement Example Attachment B – TERO Requirements Attachment C – Code of Conduct Attachment D – Affidavit of Non-Collusion Attachment E – Certificate of Compliance Attachment F – Certificate of Non-Discrimination Attachment G - Certificate of Debarment Attachment H – Proposal Form	8	0
3.	<u>Qualifications of proposed staff:</u> Identification of proposed staff with an organizational chart identifying lines of authority and communication. Experience with commissioning for a health facility. Experience or knowledge of Joint Commission standards. Tribal experience. Working in an occupied healthcare clinic.	2	30
4.	<u>Tulalip TERO status and/or utilization of NAOB’s for the project:</u> NAOB status of the proposing team.	1	10
5.	<u>Proposed Approach:</u> Structure of the Commissioning agent project management team and interface with the Owner. Meetings and participation. Deliverables to evaluate project goals and Joint Commissioning alignment. Approach to ensure ease of use and maintenance for Facilities.	2	30
6.	<u>Cost proposal based upon the Scope of Work items:</u> Cost certified by signature valid for at least 90 days. Provide a fixed price proposal and a reimbursable allowance based on scoped services. Hourly rate schedule of team members.	2	30

Proposals must be delivered electronically via email to the Owner’s Representative, Andrea Daly, Project Manager for the Wenaha Group, at AndreaD@wenahagroup.com no later than **2:00 PM, Pacific Time, March 26, 2026**. It is the **responsibility** of the proposer to ensure that electronic submissions are received by the established deadline. For questions about the electronic submittal process contact Andrea Daly Project Manager, Wenaha Group.

5. INTERVIEW

After reviewing the submissions, the selection committee may elect to conduct interviews with a short-list of proposers.

6. FINAL SELECTION

The Tulalip Tribes of Washington intends to select the proposer that best meets the needs of the Tribes and the criteria set above as determined by the evolution of the submissions received and the interview (if needed). Final selection must be approved by and shall be at the sole discretion of the Tulalip Tribes' Board of Directors. The Tulalip Tribes reserve the right to select any responsive and responsible proposer they determine.

7. ADDITIONAL SERVICES

The Tulalip Tribes reserves the right to request additional services for future phases depending on the results of the design and construction. Fees and rates for additional services are to be included in the fee section of the proposal.

8. ATTACHMENTS

The following attachments are incorporated in the RFP:

- Attachment A – Professional Services Agreement **Example**
- Attachment B – TERO Requirements
- Attachment C – Code of Conduct
- Attachment D – Affidavit of Non-Collusion
- Attachment E – Certificate of Compliance
- Attachment F – Certificate of Non-Discrimination
- Attachment G - Certificate of Debarment
- Attachment H – Proposal Form
- Attachment I – Existing Facility Plans
- Attachment J – Apollo Mechanical Concept
- Attachment K – Apollo Mechanical SD Design

ATTACHMENT A

THE TULALIP TRIBES
PROFESSIONAL SERVICES CONTRACT

Contractor Name

Project #

Project Name:

This agreement is entered into this day of, between the Tulalip Tribes of Washington hereinafter referred to as TULALIP and _____, WA 98003.

- 1. EFFECTIVE DATE:** This contract shall be effective once executed by all parties to this contract.
- 2. TERM:** The term of this contract shall expire on _____. This contract term may only be extended by mutual written agreement of both parties.
- 3. SCOPE OF WORK:** The scope of work under this Contract for Contractor shall be, at the direction of the Contract Officer, as follows:

Contractor will be the _____ (the "Project") located at 4321 Marine Drive, Tulalip, WA 98271.

The scope of work for services is more fully set forth in **Exhibit A**, which is incorporated as a part of this contract.

- 4. CONTRACT OFFICER:** The Contract Officer for the Tribes shall be Sam Davis, Cheif Operating Officer. The Contract Officer shall be responsible for directing the work of Contractor on behalf of the Tribes. The Contract Officer shall authorize all work by Contractor under this Contract. No payment for services or expenses shall be made to Contractor without authorization by the Contract Officer.

The Contract Officer may designate staff representatives to confer with Contractor relative to Contractor's services under the terms of this contract. The work in progress will be reviewed from time to time by Tribes at the discretion of Tribes or on the request of Contractor.

- 5. FEES AND PAYMENT:** Payment for the Contractor services shall be made according to the rates and schedules set forth in **Exhibit A**. Total payment for fees and expenses shall not exceed \$ _____. Such payment will be considered full compensation for all personnel, materials, supplies, and equipment used in carrying out the work.

Payment is subject to Contractor submitting invoices documenting all hours expended under this contract by Contractor and Contractor's personnel. Invoices shall be subject to approval by Contracting Officer.

Payment to Contractor shall be due not later than 30 (thirty) days after invoicing. Acceptance of final payment by Contractor constitutes a waiver of all claims by Contractor. Contractor fees will be payable on monthly statements. Such statements must give a detail of time worked by each class of employee and the expenses incurred for which billing is made.

ATTACHMENT A

6. SCHEDULE OF WORK: On approval of this agreement, the Contracting Officer will issue a notice to proceed with the work. Contractor must utilize their best efforts in the prosecution of the work pursuant to the Scope of Work. Work shall be completed according to the schedule of work set forth in **Exhibit A**. Such schedule is subject to changes pursuant to Notice from the Contract Officer to the Contractor, or as mutually agreed by the parties.

7. WORK CHANGES: The Contracting Officer may order changes in scope or character of the work, either decreasing or increasing the amount of Contractor's services. In the event that such changes are ordered, Contractor will be entitled to full compensation for all work performed prior to receipt of notice of change. Increased compensation for changes must be authorized in writing by the Tribes.

In the event Contractor is delayed in the performance of their services by circumstances beyond the Contractor's control, the Contractor will be granted a reasonable adjustment in the schedule for work as described in **Exhibit A**. All claims for adjustments in the schedule of completion must be submitted to Tribes by Contractor within 3 days of the time of occurrence of the circumstances necessitating the adjustment.

Contractor should not undertake any work beyond the scope of this agreement unless such additional work is approved in advance and in writing by Tribes.

8. STANDARD OF CARE. Contractor shall perform its services in accordance with generally accepted standards presently maintained by other professionals engaged in the same type of work in Washington.

9. COMPLETION/TERMINATION. This Agreement shall remain in force until completion and acceptance of the services or until terminated hereunder. The Tribes may terminate this Agreement for any reason by providing at least thirty (30) days prior written notice to the other party, provided that either party may terminate this Agreement with seven (7) days' prior written notice if the other party fails substantially to perform its obligations under this Agreement. In the event of termination, Contractor shall be paid in accordance with the compensation terms of this Agreement for services provided in accordance with the scope of services up to the date of termination.

Upon termination, Contractor shall promptly deliver to Tribes all materials, documents, data or work product produced by or in the possession of Contractor that relate to work performed under this Contract. All work performed by Contractor under this Contract shall be the property of the Tribes. The Contractor shall be permitted to retain copies, including reproducible copies of drawings and specifications for information, reference, and use in connection with the Contractor's endeavors. The Contractor shall not be responsible for any use of the said documents, drawings, specifications or other materials by the Tribes on any project other than the project specified in this Agreement.

10. INSURANCE. Contractor will maintain the following levels of insurance during the term of this Agreement. The Tribes will be named as an additional insured on the Commercial General Liability and Automobile Liability insurance policies.

a. Worker's Compensation (and Employer's Liability Insurance)--as required by applicable state statute.

b. Commercial General Liability--\$1,000,000 per occurrence for bodily injury, including death and property damage, and \$2,000,000 in the aggregate.

ATTACHMENT A

c. Automobile Liability--minimum of \$1,000,000 combined single limit for bodily injury and property damage.

d. Professional Liability (E&O) --\$1,000,000 each claim and in the aggregate.

11. INDEMNIFICATION/HOLD HARMLESS. The Contractor agrees to indemnify and hold harmless the Tulalip Tribes, its respective officers, employees, agents, and representatives from and against liability for all claims, losses, damages, and expenses, including reasonable attorneys' fees, to the extent such claims, losses, damages, or expenses are caused by the Contractor's acts, errors, or omissions in services provided pursuant to this Agreement. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of the Tribes and Contractor, they shall be borne by each party in proportion to its negligence.

12. RECORD KEEPING: Contractor agrees to maintain for inspection by Tribes for seven (7) years after final payment for all books, records, documents and other evidence pertaining to the costs and expenses of this contract.

13. WORK PRODUCT: Any and all work product, reports, data, findings, maps under this contract shall become the property of and remain under the sole proprietorship of Tribes. Contractor assigns all copyright in such materials to the Tulalip Tribes. Contractor will not release or disclose any information obtained as a result of performing work under this contract, either orally or in writing, unless expressly approved in writing by the Tribes.

14. SUCCESSOR BOUND: Tribes and Contractor each binds themselves and their partners, agents, assigns, successors and legal representatives of such other party to this contract and to the partners, successors, and legal representatives of such other party with respect to all terms and conditions of this contract, subject to appropriate federal law and regulations.

15. NON-ASSIGNABILITY: This is a personal services contract and the obligations of either party may not be assigned or otherwise transferred in whole or in part.

16. INDEPENDENT CONTRACTOR: Contractor is an independent contractor and not an employee of the Tribes. Contractor is and shall be responsible for and hold Tribes harmless from payment of all applicable taxes, fees or other payments required to be paid to any government by Contractor as a result of payments by Tribes to Contractor under this contract.

17. INTEGRATION: This agreement document represents the entire and complete agreement of the parties and supersedes all negotiations and representations, either written or oral. This contract may be amended or modified only in writing as agreed to by both parties.

18. COMPLIANCE WITH APPLICABLE LAWS: Contractor shall abide by all applicable laws and regulations in his performance of work by obtaining all required applicable licenses, permits or other governmental authorizations necessary for said performance.

19. INDIAN / TRIBAL PREFERENCE: Contractor shall not discriminate against any employee or applicant for employment on the basis of race, color, religion, age, sex, national origin or handicap, with regard to

ATTACHMENT A

employment. For work performed under this contract, Contractor shall comply with applicable provisions of the Tribal Employment Rights Ordinance, TTC 9.05

20. NOTICE OF LEGAL PROCEEDINGS: Contractor shall promptly notify Tribes of any litigation arising from or affecting its operations under this contract, including any bankruptcy or insolvency proceedings of Contractor or of its assignees or subcontractors. Contractor shall not assign his rights under this contract without first obtaining Tribes' written approval.

21. LIMITATION ON LIABILITY: Contractor hereby acknowledges and agrees that it shall not be entitled to payment for services or otherwise including damages in excess of the fee amount specified in this contract.

22. BREACH; REMEDIES: Tribes may immediately suspend work under this contract upon delivery to Contractor of a written notice of breach. Suspension shall continue until Tribes' authorized representative certifies in writing that the breach is remedied. If in the sole opinion of the Contracting Officer, Contractor remains in breach after seven (7) days from the notice of suspension, Tribes may terminate this contract without further notice. Any failure by Tribes to suspend or terminate this contract in case of breach shall not waive Contractor' duty to perform. Failure by Contractor to perform on his part any duty, term or condition, herein shall constitute a breach. Failure of Tribes to assert any claim or right at any time under this contract shall not waive its right to assert any claim or right at a later time.

23. NOTICE: All notices required by this contract shall be in writing and shall not be effective unless delivered personally or via U.S. mail, to the individuals identified as follows:

For the Tribes:

Samuel J. Davis

Chief Operating Officer
6406 Marine Drive
Tulalip, WA 98271

For the Contractor

WA 98003

24. APPLICABLE LAW: The parties agree that the laws of the Tribes shall apply to the interpretation and enforcement of this contract. Nothing in this contract constitutes or shall be construed as a waiver of sovereign immunity of the Tribes, its subordinate entities officers, directors, or employees.

IN WITNESS WHEREOF, the parties have executed this agreement at the Tulalip Indian Reservation as of the day and year first above written.

Attest:

Contractor:

Tulalip Tribes Contract Officer:

Tulalip Tribes (M.D.):

Tulalip Hermosa Heights

The Tulalip Tribes

October 2023 – June 2025

ATTACHMENT A

Signature

Title

Date

Signature

Chief Operating Officer
Title

Date

Signature

Chair
Title

Date

ATTACHMENT B

Tulalip Tribes of Washington TERO Requirements

The following outlines the TERO expectations and responsibilities placed on all contractors and sub-contractors doing work on or near the Tulalip Indian Reservation and on Tribal projects off Reservation. If you have any questions or concerns, contact a TERO Compliance Officer.

TERO ACKNOWLEDGMENT:

Requirement: The contractor/employer must comply with all rules and regulations as set forth in the **TERO code 9.05**. This agreement will be affirmed in writing and will be signed and dated by the TERO Manager.

TERO LIAISON:

Requirement: All contractors and employers must designate a responsible company official to coordinate all employment, training and contracting related activities with the TERO department to ensure that the company is in compliance with TERO.

NATIVE AMERICAN OWNED BUSINESS REGISTRY:

Requirement: The TERO Office maintains a certified Native American Owned Business Registry. All the businesses on the registry need to be given the opportunity to bid on any projects that they are qualified for. If they are within 10% of the lowest bid, you need to negotiate to see if they can reduce their price. But the fact remains that the bid will be awarded on: price, quality and capability.

TERO COMPLIANCE PLAN:

Requirement: All contractors, sub-contractors and employers must have an approved written compliance agreement filed, negotiated and approved by the TERO Office prior to commencement of any construction activities on the Tulalip Reservation and on Tribal projects off Reservation. There is a 1.75% TERO fee on any projects over \$10,000 to be paid in full or negotiated with the TERO Compliance Officers.

COMPLIANCE PLAN WORKFORCE/KEY EMPLOYEE:

Requirement: Contractors/employers shall be required to hire and maintain as many TERO/Native American preference employees as apply for and are qualified for each craft or skill.

Exception: Prior to commencing work on the Tulalip Indian Reservation the prospective employer, contractor and sub-contractors shall identify key, regular and permanent employees.

Key employee: One who is in a top supervisory position or performs a critical function such that an employer would risk likely financial damage or loss if that task were assigned to a person unknown to the

employer. A maximum of 20% of the work force may be considered key. A key employee has been on the employers' or contractors' annual payroll for a period of one year continuously in a supervisory capacity or is an owner of the firm. An employee who is hired on a project-by-project basis shall not be considered a key employee.

TERO HIRING HALL AND RECRUITMENT EFFORTS:

Requirement: The contractor or employer is required to contact the TERO Office for recruiting and placement services on all non-key positions. The TERO Office shall be given a minimum of seventy-two (72) hours to furnish a qualified referral. Furthermore, contractors and employers are required to provide the TERO with a written list of their projected workforce needs, job classifications, openings, hiring policies, rate of pay, experience/skill requirements, employment screening procedures and anticipated duration of employment.

NATIVE PREFERENCE:

Requirement: While working within Tribal jurisdiction the contractors and employers must give preference to qualified, Native applicants for all employment positions. The order of preference shall be given to the following persons in the following enumerated order:

1. Enrolled Tualip Tribal members
2. Spouses, parent of a Tribal member child, biological child born to an enrolled Tualip Tribal member, current legal guardian of a Tribal member dependent child (with a proper letter of temporary or permanent legal guardianship from a court), or a Tribal member in a domestic partner relationship (with documentation).
3. Other Natives/Indians shall mean any member of a federally recognized Indian tribe, nation or band, including members of federally recognized Alaskan Native villages or communities.
4. Spouse of federally recognized Native American
5. Other

Exception: Where prohibited by applicable Federal Law, the above order of preference set out in subsection 4.2, shall not apply. In such cases preference shall be given in the following:

1. Natives who are local residents
2. Other Natives

Requirement: If the TERO Office is unable to refer an adequate number of qualified, preferred employees for a contractor, TERO will notify the contractor who may fill the remaining positions with non-TERO workers.

Requirement: The contractor is required to notify the TERO Office of all future job openings on the project so that qualified, preferred employees have an opportunity to be dispatched.

JOB QUALIFICATIONS, PERSONNEL REQUIREMENTS AND RELIGIOUS ACCOMMODATIONS:

Requirement: An employer may not use any job qualification criteria or personnel requirements which serve as barriers to the employment of Natives which are not required by business necessity. The TERO Department will review the job duties and may require the employer to eliminate the personnel

requirements at issue. Employers shall also make reasonable accommodation to the religious beliefs and cultural traditions of Native workers.

TRAINING:

Requirement: Contractors / employers may be required to develop on-the-job training opportunities and/or participate in Tribal or local training programs, including upgrading programs, and apprenticeship or other trainee programs relevant to the employer's needs.

LAY-OFFS:

Requirement: In all lay-offs and reductions in force, no preferred employee shall be terminated if a non-preferred employee worker in the same job qualifications is still employed. If an employer lays-off workers by crews, all qualified Native workers shall be transferred to a crew to be retained.

DISCIPLINARY ACTIONS AND TERMINATIONS:

Requirement: Prior to the discipline or termination of any TERO employee, the contractor or employer shall consult with the TERO Compliance Officer to see if they can resolve the issue. The TERO Office is here to help in any way it can. Communication with the TERO Compliance Officers is very important to help ensure the job runs smoothly.

ATTACHMENT C

Attachment C - Code of Conduct

The Code of Conduct are established by Tulalip to ensure that a **minimum** standard for contractors and Individual professionalism is maintained on the project. They are intended to eliminate issues arising due to misunderstandings and or poor judgement. Any contractor or contractor personnel found deviating from the established standards will face disciplinary action as deemed appropriate by the Owner or Owner's Representative. It is the responsibility of each contractor to submit this document to each of its employees and Contractors assigned to the project to read, understand, and sign prior to working at this site.

Standard Code of Conduct:

- The contractor's supervisor is required to check in with the Owner's primary contact person each day prior to starting work to apprise the Owner of planned activities from the previous day that did not occur, discuss activities for the day, and determine if any issues related to the contractor's work exist.
- Any damage that occurs to the Owner's property or personal property on the site must immediately be reported to the Owner's primary contact person. A damage report will be generated by the prime contractor.
- When working after normal business hours it is the responsibility of the contractor to ensure all exterior doors are secured as required at the end of the work shift.
- All interior doors will be left as found unless obvious security issues exist. In these cases, the contractor is expected to contact the Owner's Representative for direction.
- Smoking only in designated areas.
- No firearms are allowed on the Owner's property.
- No alcohol or illegal drugs are allowed on the Owner's property.
- No radios or personal music allowed on the Owner's property.
- No improper language and or gestures used by the contractor personnel on the property.
- There will be no improper conduct, communication or fraternizing with the Owner's personnel.
- There will be no use of the Owner's equipment without prior written approval by the Owner.
- All Owner items moved or relocated to facilitate an installation will be put back in the exact location and condition in which it was found.
- There will be no standing on desks, chairs, office equipment or other furniture or furnishings.
- Flooring, furniture and office equipment will be covered adequately to protect it from construction activity.
- Observe safety rules as detailed in the contract documents.
- Leave all personal items on desks and in work areas alone.
- Dress attire will be professional and clean. No sleeveless shirts or shorts.
- Use of Owner's telecommunication is prohibited without permission.
- Contractor ID's bearing the company name will be worn at all times. The Owner may choose to provide ID badges to the contractors.

Contractor/Employee Signature/Date

ATTACHMENT D

Attachment D – Affidavit of Non-collusion

Firm Name:

Instructions: Please return your completed form as part of the Response submittal.

I swear (or affirm) under the penalty of perjury:

1. That I am the Responder (if the Responder is an individual), a partner in the company (if the Responder is a partnership), or an officer or employee of the responding corporation having authority to sign on its behalf (if the Responder is a corporation).
2. That the attached proposal submitted in response to the Request for Proposals has been arrived at by the Responder independently and has been submitted without collusion with and without any agreement, understanding or planned common course of action with, any other Responder of materials, supplies, equipment, or services described in the Request for Proposals, designed to limit fair and open competition.
3. That the contents of the proposal have not been communicated by the Responder or its employees or agents to any person not an employee or agent of the Responder and will not be communicated to any such persons prior to the official opening of the proposals.
4. That I am fully informed regarding the accuracy of the statement made in this affidavit.

Authorized Signature

Responder's firm name: _____

Print authorized representative name: _____ Title: _____

Authorized signature: _____ Date (mm/dd/yyyy): _____

Notary Public

Subscribed and sworn to before me this:

_____ day of _____, _____

Notary Public signature

Commission expires (mm/dd/yyyy)

ATTACHMENT E

Attachment E - Certification of Compliance

I/we have received and reviewed the RFP and any Addenda issued by the Tulalip Tribes and this submission is our entire proposal.

Firm Name _____

Authorized Signature _____

Printed Name _____

Date _____

Addenda Received _____

ATTACHMENT F

Attachment F - Certificate of Non-discrimination

The Tulalip Tribes is opposed to any discrimination in subcontracting. Any contractor who contracts with the Tulalip Tribes shall not discriminate against minority, women, or emerging small business enterprises in the awarding of contracts.

By signature of the authorize representative of the bidder/proposer, the bidder/proposer herby certifies to the Tulalip Tribes that this bidder/proposer has not discriminated against minority, women, or emerging small business enterprises in obtaining any subcontracts; and, further, that if awarded the contract for which this bid or proposal is submitted, shall not so discriminate.

Bidder/Proposer hereby certifies that the information provided above is true and accurate.

Proposer Company Name:		
Street Address:		
City:	State:	Zip Code:
Toll Free Telephone:	Telephone:	Fax:
Federal I.D. or Social Security No.:	E-Mail:	
Type or Print Name of Person Signing:	Title:	
Authorized Signature:		

ATTACHMENT G



**Procurement:
Certification Regarding Debarment, Suspension,
and Other Responsibility Matters**

- PLEASE READ INSTRUCTIONS ON NEXT PAGE BEFORE COMPLETING CERTIFICATION -

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 13 CFR Part 145. The regulations were published as Part VII of the May 26, 1988 Federal Register (pages 19160-19211). Regulations can be found at ecfr.gov and federalregister.gov.

- 1) The prospective primary recipient certifies to the best of their knowledge and belief that it and its principals:
 - a. Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - b. Have not within a (3) three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, Tribal, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, Tribal, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - d. Have not within a three-year period preceding this application had one or more public transactions (Federal, State, Tribal, or local) terminated for cause or default.

- 2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective primary participant shall attach an explanation to this proposal.

Business name Alternative business names

List of principals

Date Name of authorized representative Title

Signature



Procurement: INSTRUCTIONS FOR CERTIFICATION

- 1)** By signing and submitting this proposal, the prospective Authorized Representative is providing the certification set out below.
- 2)** A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror non-responsible.
- 3)** The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the government agency; the department or agency may terminate this transaction for cause or default.
- 4)** The Authorized Representative shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the Authorized Representative learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- 5)** The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549.
- 6)** The Authorized Representative agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
- 7)** The Authorized Representative further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion—SubContractors" provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
- 8)** A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to, check the sam.gov database.
- 9)** Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- 10)** Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the government agency; the department or agency may terminate this transaction for cause or default.

ATTACHMENT H
Attachment H - PROPOSAL FORM

Responses to the Tulalip Tribes Request for Proposals
Medical Clinic – HVAC upgrade

Firm Name: _____

The Undersigned offers and agrees to provide Commissioning Services

The proposer understands that any false statement may disqualify this proposal from consideration or be cause for contract termination.

The proposer certifies that it does not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, handicap, financial ability, age or other non-job-related factors.

Washington UBI Number: _____ Expiration Date: _____

- | | |
|--|--|
| <input type="checkbox"/> Resident Firm | <input type="checkbox"/> Non-resident Firm |
| <input type="checkbox"/> Corporation | <input type="checkbox"/> Partnership |
| <input type="checkbox"/> Sole Proprietor | <input type="checkbox"/> Joint Venture |
| <input type="checkbox"/> Other _____ | |

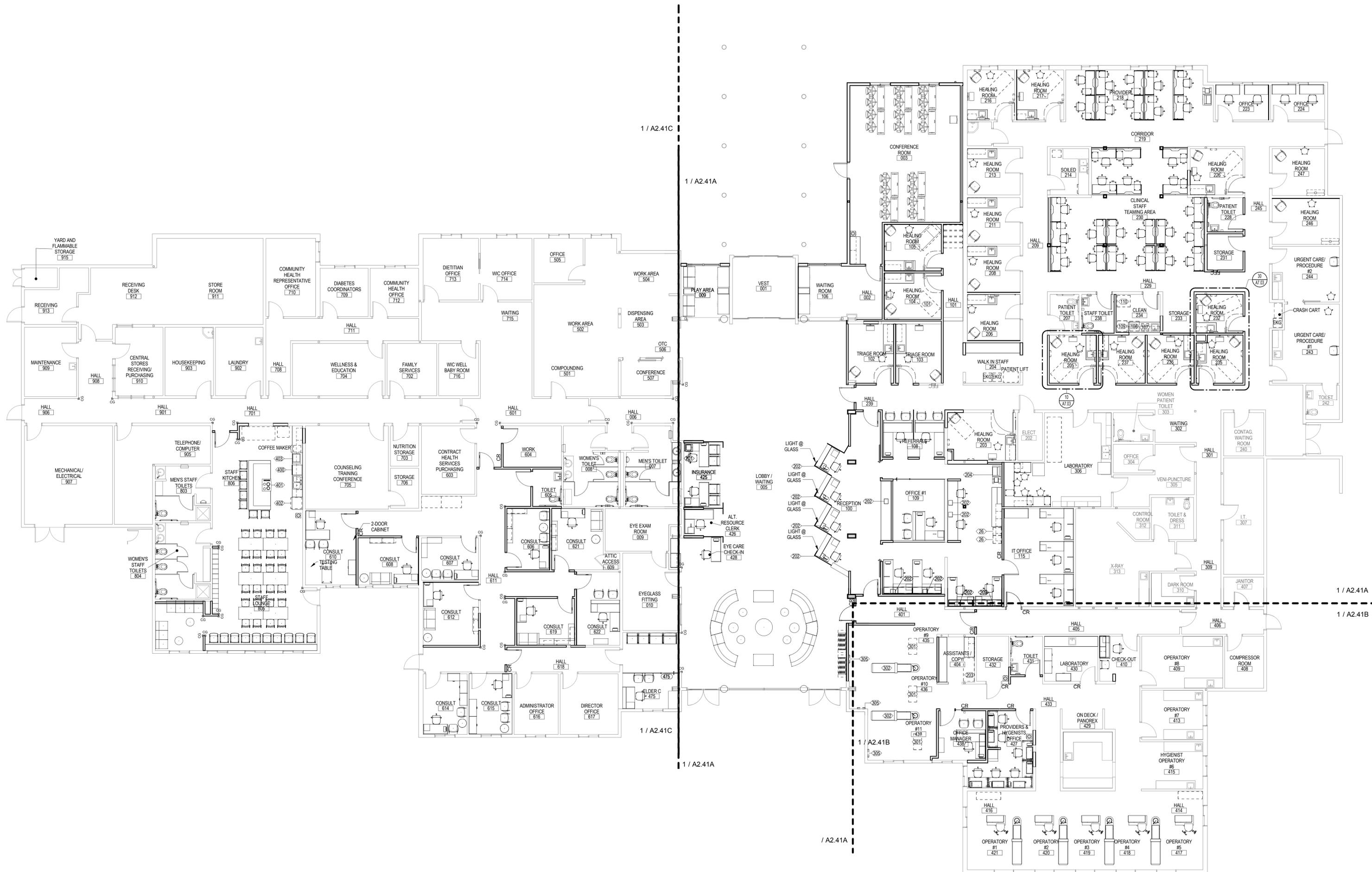
Has your firm ever been disqualified by a government agency from bidding or proposing on a Tribal and/or public project? _____ (yes/no)

If the answer is yes, explain the circumstances, project, contracting agency and date. State the reason for disqualification and if the disqualification has ended. Use additional sheets if required.

Has your firm ever been terminated from a Tribal and/or public contract? _____ (yes/no)

If the answer is yes, explain the circumstances, project, contracting agency and date. State the reason for termination. Use additional sheets if required.

ATTACHMENT I



Tulalip Health Clinic

Mechanical Systems Repair and Upgrade

Tulalip, WA
December 2, 2025

Prepared for:
Tulalip Tribes
Tulalip Health System



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Mechanical Narrative

1.0 Introduction

This project narrative outlines the proposed upgrades to the facility's mechanical systems, focusing on improving efficiency, reliability, and long-term sustainability.

2.0 Existing HVAC System Overview

The existing building is currently served by a combination of constant volume air handling units (AHUs) and hydronic duct-mounted coils (DCs).

2.1 Air Handling Units (AHUs)

A total of five (5) AHUs are installed across three mezzanine levels:

- AHU-2 is a single-zone, constant volume, four-pipe air handler equipped with hydronic heating and cooling coils. This unit is dedicated to serve the Main Lobby.
- AHU-1, AHU-3, AHU-4, and AHU-5 supply air to downstream duct-mounted coils. Each unit is equipped with a heating coil only, providing tempered air during the winter season.
- The air handling units consist of supply fans, return fans, mixing dampers and are configured with airside economizers to provide free cooling when outdoor air conditions are favorable.

2.2 Zone-Level Conditioning

Heating and cooling at the zone level is achieved through duct-mounted hydronic coils. The building consists of thirty-one (31) zones, including two (2) zones added during the 2016 renovations.

2.3 Central Plant: Heating and Cooling

The central plant provides heating and cooling to the duct coils and AHU coils through dedicated boilers and chiller systems.

Heating water is supplied by two propane-fired boilers (B-1 and B-2), each rated at 1,730 MBh. The distribution piping is arranged in a primary/secondary configuration to ensure efficient circulation of heating water to terminal coils throughout the building.

Chilled water is generated by a single air-cooled chiller (CH-1) with a rated cooling capacity of 127.8 tons. Circulation pumps distribute the chilled water to the building's cooling coils.

Both heating and chilled water systems utilize a 30% propylene glycol solution to provide freeze protection.

2.4 Split System Air Handling Units

Split system heat pumps consisting of indoor and outdoor units were installed during the 2016 renovations. Three (3) ducted air handling units (AHU-6, AHU-7, AHU-8) are connected to a single outdoor condensing unit CU-1. This system provides heating and cooling to the Lab, Clinic Records and Dental Equipment Room. A ductless split system (AHU-9/CU-2) provides dedicated cooling for the IT Room.

2.5 Exhaust Fans

The building is served by two (2) inline exhaust fans. Exhaust fan EF-1 provides exhaust for the west section of the main lobby, while fan EF-2 serves the east section. Both exhaust fans are connected to ductwork that terminates at exterior exhaust louvers, ensuring proper ventilation and air discharge.

With the current exhaust system design, both pressurization and negative pressurization are entirely dependent on the Testing, Adjusting, and Balancing (TAB) process. The system does not include automatic adjustability to compensate for changes in building conditions or occupancy. Pressure relationships are established and maintained through the airflows set during TAB, and these designed airflows are what ensure the intended pressure differentials between spaces. As a result, maintaining proper pressurization relies solely on the accuracy and thoroughness of the TAB procedures during commissioning, and any future changes in building performance require manual re-balancing to realign airflows and preserve the desired pressure relationships.

3.0 New HVAC System

3.1 ASHRAE 170 Analysis

The existing HVAC system airflows were verified in accordance with ASHRAE Standard 170 – Ventilation of Health Care Facilities to ensure compliance with current ventilation requirements. The required supply, exhaust, and outdoor air rates were verified for each applicable space type. The analysis confirmed that the current delivered air changes per hour (ACH) meet or exceed the minimum requirements. These validated airflows were used to confirm total AHU capacities.

3.2 HVAC System Upgrade

The constant volume HVAC system will be replaced with a modern variable air volume (VAV) system to improve efficiency, comfort, and controllability.

3.2.1. Air Handling Units (AHUs)

AHU-2, serving the Main Lobby, will remain a single zone unit. It will be reconfigured from a constant volume system to a variable air volume (VAV) unit, allowing the system to modulate airflow once the space setpoint is satisfied rather than continuing to operate at constant volume.

AHU-1, AHU-3, AHU-4, and AHU-5 will be replaced with new VAV style air handling units configured with four-pipe hydronic heating and cooling coils. These units will provide variable airflow to downstream terminal units, enhancing zone-level control and energy performance.

A summary of air handling units including airflow capacities and zones served is presented below:

Equipment Tag	Configuration	Airflow (CFM)	Zones Served
AHU-1	Variable Flow	12,000	DC-1 to DC-22
AHU-2	Constant Flow	6,000	Main Lobby
AHU-3	Variable Flow	2,000	DC-23 to DC-30
AHU-4	Variable Flow	6,000	DC-31 to DC-46 & DC-59/60
AHU-5	Variable Flow	6,000	DC-47 to DC-58 & DC-61/62

3.2.2. Terminal Units

The existing duct mounted heating and cooling coils will be replaced with VAV terminal units equipped with hydronic reheat coils.

The upgraded design will maintain the existing zoning arrangement of thirty-one (31) zones, including the two (2) zones added in 2016. Each zone will be served by a dedicated VAV terminal unit, ensuring improved occupant comfort and operational flexibility. VAV systems reduce fan energy consumption by modulating airflow based on demand.

3.2.3. Split System Air Handling Units

The split systems will be replaced with similar capacity. A separate line-item cost breakdown is provided in the estimate for replacement of the split-system AHUs (AHU-6, AHU-7, AHU-8) and their associated outdoor condensers originally installed in 2016.

3.2.4. Exhaust Fans

As part of the HVAC system upgrades, the existing inline exhaust fans (EF-1 and EF-2), which currently serve the west and east sections of the main lobby, will be replaced with new, energy-efficient units of equivalent capacity. The replacement fans will be integrated with the existing ductwork and exhaust louvers.

3.2.5. Central Plant: Heating and Cooling

The current air-cooled chiller has reached the end of its operational life and will be replaced with a high-efficiency unit of similar capacity. In the same manner, the existing propane-fired boilers will be upgraded to new units of comparable capacity. Additionally, the flue venting system will be replaced to ensure compliance with the latest codes and standards. This will most likely require modifications to the roof to accommodate different flue sizes.

As an alternative to propane, a fully electric approach would involve replacing the propane-fired boilers with electric units to create a more sustainable, all electric central plant. However, the existing electrical service is not sufficient to accommodate the load requirements of electric boilers. A service upgrade would therefore be required to implement this option, and the feasibility of such an upgrade will need to be evaluated in coordination with the utility provider.

3.2.6. Hydronic Pumps

The existing heating and chilled water circulation pumps will be replaced with new, high-efficiency pumps equipped with variable frequency drives (VFDs). The integration of VFDs will allow pump speed to be modulated in response to system demand, rather than operating continuously at full capacity. This upgrade will improve overall energy performance and reduce electricity consumption.

3.2.7. Controls

New hydronic control valves will be provided with all new heating and chilled water coils. The new control valves will be pressure independent to reduce water flow to a minimum to save energy. Updated controls will be provided for each new VAV terminal unit and air handling unit. Existing zone thermostats which were previously wired to the duct coils will be rewired to interface with the new VAV terminal units.

4.0 Sustainable Design and Energy Efficiency Options

In addition to the baseline HVAC upgrades summarized above, several sustainable strategies are proposed to improve energy performance and reduce greenhouse gas emissions. These options support long-term operational efficiency and align with electrification goals.

4.1 Heat Pump Chiller Option

The existing air-cooled chiller could be replaced with a heat pump chiller. Heat pump chillers are capable of providing both heating and cooling, thereby improving system flexibility and overall efficiency. During non-peak heating conditions, the heat pump chiller would supply heat to the building reducing propane use. The propane-fired boilers would provide supplemental backup during peak design heating conditions.

This option will reduce the annual propane consumption by approximately half.

4.2 Full Electrification Option: Heat Pump Chiller with Electric Boilers

An alternative to retaining propane-fired boilers as backup is to fully electrify the central plant by replacing them with electric boilers. In this configuration, the existing air-cooled chiller would be replaced with a heat pump chiller capable of providing both heating and cooling, while electric boilers would provide supplemental heating during peak design conditions. This approach eliminates on-site fossil fuel combustion, reduces carbon emissions, and leverages electricity as the sole energy source.

The heat pump chiller will be sized to match the cooling capacity of the current air-cooled chiller. However, during the heating operation, its output will not be sufficient to meet the full building heating load. Supplemental heating will therefore be required to ensure adequate capacity during peak demand. Two scenarios for supplemental heat are outlined below:

4.2.1. Scenario 1: Heat Pump Chiller and Two (2) Electric Boilers.

In this scenario, the supplemental heating would be provided by an electric boiler sized at approximately 180 kW. When operating together, the heat pump chiller and electric boiler would be capable of meeting the building heating load.

To enhance reliability, a second boiler can be added as backup in the event of a primary boiler failure. The net increase in electrical load would be about 360 kW, which preliminary analysis indicate can be accommodated by the existing electrical service without requiring an upgrade.

4.2.2. Scenario 2: Two (2) Heat Pump Chillers and Electric Boiler.

This scenario involves installing two heat pump chillers sized to meet the full heating load of the building. While this configuration results in oversizing for cooling, it provides added resiliency by ensuring full cooling capability even if one chiller circuit fails.

To further strengthen system reliability, a backup electric boiler sized at approximately 305 kW can be included to cover heating demand in the event of a primary heat pump failure. The addition of the second heat pump chiller and the backup boiler would result in an overall increase in electrical load of approximately 400 kW. Based on preliminary investigations, the existing electrical service is adequately sized to accommodate this increase.

4.3 Energy Recovery Ventilators (ERVs)

The existing inline exhaust fans (EF-1 and EF-2) could be replaced with energy recovery ventilators. ERVs transfer heat between exhaust air and incoming outdoor air, preheating or precooling ventilation air depending on the season. This reduces heating and cooling loads, lowers energy consumption.

Compared to inline exhaust fans, ERVs require significantly more physical space due to their additional components, including multiple supply and exhaust fans, a heat recovery device, and several duct connections. Given this larger footprint, further investigation will be needed to confirm that adequate space is available to accommodate the unit, the associated ductwork, and any necessary adjustments to layouts and building systems.

5.0 System Redundancy

The upgraded HVAC system has been designed with redundancy features to ensure reliable operation and minimize downtime in the event of component failure.

5.1 Air Handling Units (AHUs)

Each new AHU will be equipped with multiple supply fans arranged in a fan array configuration. Fan arrays provide redundancy by allowing the unit to continue operating at reduced capacity if one fan fails, thereby maintaining airflow until service can be performed.

5.2 Cooling Redundancy

The cooling plant comprises of a single air-cooled chiller. The replacement chiller will be selected to include multiple independent circuits and compressors. This configuration will provide partial redundancy, allowing the chiller to continue operating at reduced capacity in the event of a circuit failure. However, because the system relies on only one chiller, a circuit failure would prevent the unit from meeting the building's full cooling load. While this configuration enhances resilience compared to a single-circuit design, it does not provide full redundancy, and the building's cooling demand during peak design conditions could not be fully met in the event of a circuit failure.

5.3 Heating Redundancy

Redundancy within the system is primarily focused on heating. The heating plant will consist of two (2) boilers, each sized to handle approximately two-thirds of the total heating load. This configuration ensures that either boiler alone can meet the building's heating demand under most conditions, with the exception of the coldest two weeks of the year.

In the case of the heat pump chiller option, supplemental heating would be provided by a multi-circuited heat pump chiller providing an additional layer of redundancy, further enhancing system resilience. With the fully electric sustainable option, the multi-circuited heat pump chiller will be paired with electric boilers.

5.4 Pumping Redundancy

To ensure reliable operation, the building heating and chilled water circulation pumps will be configured with duty and standby pumps. In this arrangement, one pump will operate under normal conditions to meet the required flow, while the second pump remains idle but ready to automatically start if the duty pump fails or requires maintenance. This setup provides redundancy by maintaining continuous service even during equipment failure or downtime, thereby reducing the risk of system interruption. The duty/standby configuration will also allow for routine servicing of pumps without compromising system performance, enhancing overall resilience and operational reliability.

6.0 Next Steps and Items to Verify

6.1 Space Type Categories (ASHRAE 170)

The space type categories applied to building have been based on Table 8-1 of ASHRAE 170, which outlines ventilation requirements for healthcare facilities according to specific room functions. These categories were used to assign room names and determine the appropriate air change rates.

The assumptions made during this process needs to be confirmed by both the Tulalip Clinic and the Weneha Group to ensure that the correct space classifications were applied and that the mechanical design aligns with the intended clinical use of each area. This step is critical to avoid discrepancies between design assumptions and actual operational requirements.

6.2 Operatory Return and Exhaust Air

The exhaust configuration for the operatories in the original building is designed such that all air is exhausted through the inline exhaust fan directly to the exterior. The operatories that were added during the 2016 renovations have their exhaust air routed back to the AHU for return. Although ASHRAE does not identify a specific requirement for maintaining dedicated exhaust in these spaces, the current configuration presents an inconsistency between the original and renovated areas.

Please confirm whether the existing arrangement is acceptable to remain, or if revisions are required to align the renovated operatories with the exhaust approach used in the rest of the rooms.

6.3 Triage Rooms Exhaust Air

The two triage rooms (Rooms 102 and 103) are currently served with return air ducted to AHU-5, which is then recirculated back to the spaces. According to ASHRAE 170 Table 8-2 design parameters, urgent care triage rooms require all room air to be exhausted directly to the outdoors rather than recirculated. Confirmation is needed from the Tulalip Clinic and the Weneha Group to verify that this is the applicable space category for these rooms. Based on that determination, system modifications may be required to ensure compliance with ASHRAE 170 ventilation standards.

6.4 Split System Units Replacement

A separate line item cost breakdown has been provided in the estimate for the potential replacement of the split system AHUs (AHU-6, AHU-7, AHU-8) and their associated outdoor condensers, which were installed in 2016. Input from the Tulalip Clinic and the Weneha group is needed to determine whether replacement should be pursued or if the existing equipment will remain in service.

6.5 Building Controls Replacement

A separate price has been provided for the replacement of the entire building control system. Feedback and direction from the Tulalip Clinic and the Weneha group will be required to determine whether to proceed with a full controls replacement or maintain the existing system. If the existing system is maintained, the new controls associated with the installed equipment will be integrated into the current control system to ensure proper functionality.

6.6 Sustainable Concepts

Several sustainable design options have been identified and presented for consideration, including strategies such as incorporating energy recovery ventilation, utilizing heat pump chillers for supplemental heating, and exploring fully electric system configurations.

Feedback from the Tulalip Clinic and the Weneha group will be required to determine which options should be advanced to the next stage of development.

7.0 Appendix

7.1 ASHRAE 170 Calculations

Tulalip Health Clinic Renovations

ASHRAE 170 Ventilation and ACH Calculations

Room Name and Number Based on Remodel 2016	Duct Coil Tags	Floor Area (sq.ft)	ASHRAE Table 8-2 Design Parameters			Airflow (CFM)		Notes	
			Space Type Category	Min OA ACH	Min. Total ACH	Ceiling Height (ft)	Total ACH Required per ASHRAE 170		Current Design Airflow
AHU-2								AHU-2 serves lobby and general spaces. ACH, Ventilation requirements not dictated or governed by ASHRAE 170. Current design airflows for AHU-2 to remain unmodified	
Vestibule 001	Not Applicable	156							
Hall 002		Included with Lobby Waiting 005							
Clinic / Reception Information 004		Included with Lobby Waiting 005							
Lobby / Waiting 005		2525							
Hall 006		112							
Mens Toilet 007		168							
Womens Toilet 008		168							
Play Area 009		103							
Eye Exam Room 009		120							
Eyeglass Fitting 010		182							
AHU-3								AHU-3 Sized for 2000 CFM.	
							AHU-3 Total		1675
Dark Room 310	DC-23/24	59	Class 1 Imaging	2	6	8	47		50
Toilet & Dress 311		74	Toilet Room				47		50
Control Room 312		Included with X-Ray 313	Class 1 Imaging						
X-Ray 313		329	Class 1 Imaging	2	6	9.5	313		340
							DC-23/24 Total		440
Work Area 010	DC-25/26	287							175
IT Office 115		283							250
Healing Room 203		136	Urgent Care Exam	2	3	8	54		75
							DC-25/26 Total		500
IT 307	DC-27/28	193							400
							DC-27/28 Total		400
Women Patient Toilet 303	DC-29/30	47	Toilet Room		4	9.5	30		80
Office 304		48							80
Laboratory 306		333	Laboratory Work Room	2	3	8	133	175	
Electrical 202		49							
							DC-29/30 Total	335	

Notes:

1. The ASHRAE 170 calculations focus on the specific room categories listed in Table 8-2 to confirm compliance with air change requirements and to validate that the current supplied airflows meet those standards.
2. Delivered airflows for other spaces, such as offices and support areas, are included to establish total zone airflow and to support proper sizing of VAV terminal units and AHU capacities.

Tulalip Health Clinic Renovations

ASHRAE 170 Ventilation and ACH Calculations

Room Name and Number Based on Remodel 2016	Duct Coil Tags	Floor Area (sq.ft)	ASHRAE Table 8-2 Design Parameters			Airflow (CFM)		Notes	
			Space Type Category	Min OA ACH	Min. Total ACH	Ceiling Height (ft)	Total ACH Required per ASHRAE 170		Current Design Airflow
AHU-4			AHU-4 Total					6020	
Hall 238	DC-31/32	215							
Hall 239		45					150		
Waiting 302		98					150		
Venit Puncture 305		134					150		
Entrance 241		109					150		
Hall 301		160					150		
DC-31/32 Total							600		
Walk in Staff 204	DC-33/34	90					120		
Healing Room 206		98	Urgent Care Exam	2	3	8	39	140	
Healing Room 208		101	Urgent Care Exam	2	3	8	40	125	
DC-33/34 Total							385		
Healing Room 211	DC-35/36	101	Urgent Care Exam	2	3	8	40	125	
Healing Room 213		101	Urgent Care Exam	2	3	8	40	125	
Janitor 215		24							
Healing 216		98	Urgent Care Exam	2	3	8	39	120	
DC-35/36 Total							370		
Healing 217	DC-37/38	98	Urgent Care Exam	2	3	8	39	120	
Provider 218		321						300	
Office 223		78						100	
Corridor 219		225						80	
DC-37/38 Total							600		
Office 224	DC-39/40	78						100	
Healing Room 247		102	Urgent Care Exam	2	3	8	41	140	
DC-39/40 Total							240		
Urgent Care / Procedure #1 243	DC-41/42	207	Urgent Care Treatment	2	3	8	83	300	
Urgent Care / Procedure #2 244		147		2	3	8	59	225	
Toilet 242		Toilet Room	78	Toilet Room		4	9.5	49	75
Contag Waiting Room 240		72						200	
Healing Room 246		127	Urgent Care Exam	2	3	8	51	100	
DC-41/42 Total							900		
Soil 214	DC-43/44	74	Soiled Holding		6	8	59	60	
Healing Room 226		101	Urgent Care Exam	2	3	8	40	100	
Clinical Staff Teaming Area 230		833						700	
Patient Toilet 228		53	Toilet Room		4	9.5	34		
Hall 225		114							
Hall 209		242						125	
DC-43/44 Total							1125		
Patient Toilet 207	DC-45/46	45	Toilet Room		4	9.5	29	50	
Staff Toilet 238		53	Toilet Room		4	9.5	34		
Storage 231		54							
Healing Room 232		75	Urgent Care Exam	2	3	8	30	120	
Storage 233		54							
Clean 234		68	Clean Supply	2	2	8	18	200	
Healing Room 235		94	Urgent Care Exam	2	3	8	38	120	
Healing Room 236		94	Urgent Care Exam	2	3	8	38	120	
Healing Room 237		94	Urgent Care Exam	2	3	8	38	120	
Hall 245		255						150	
Healing Room 205		95	Urgent Care Exam	2	3	8	38	120	
DC-45/46 Total							1000		
Conference Room 003		DC-59/60	681						800
DC-59/60 Total							800		

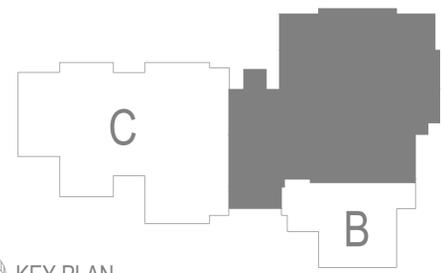
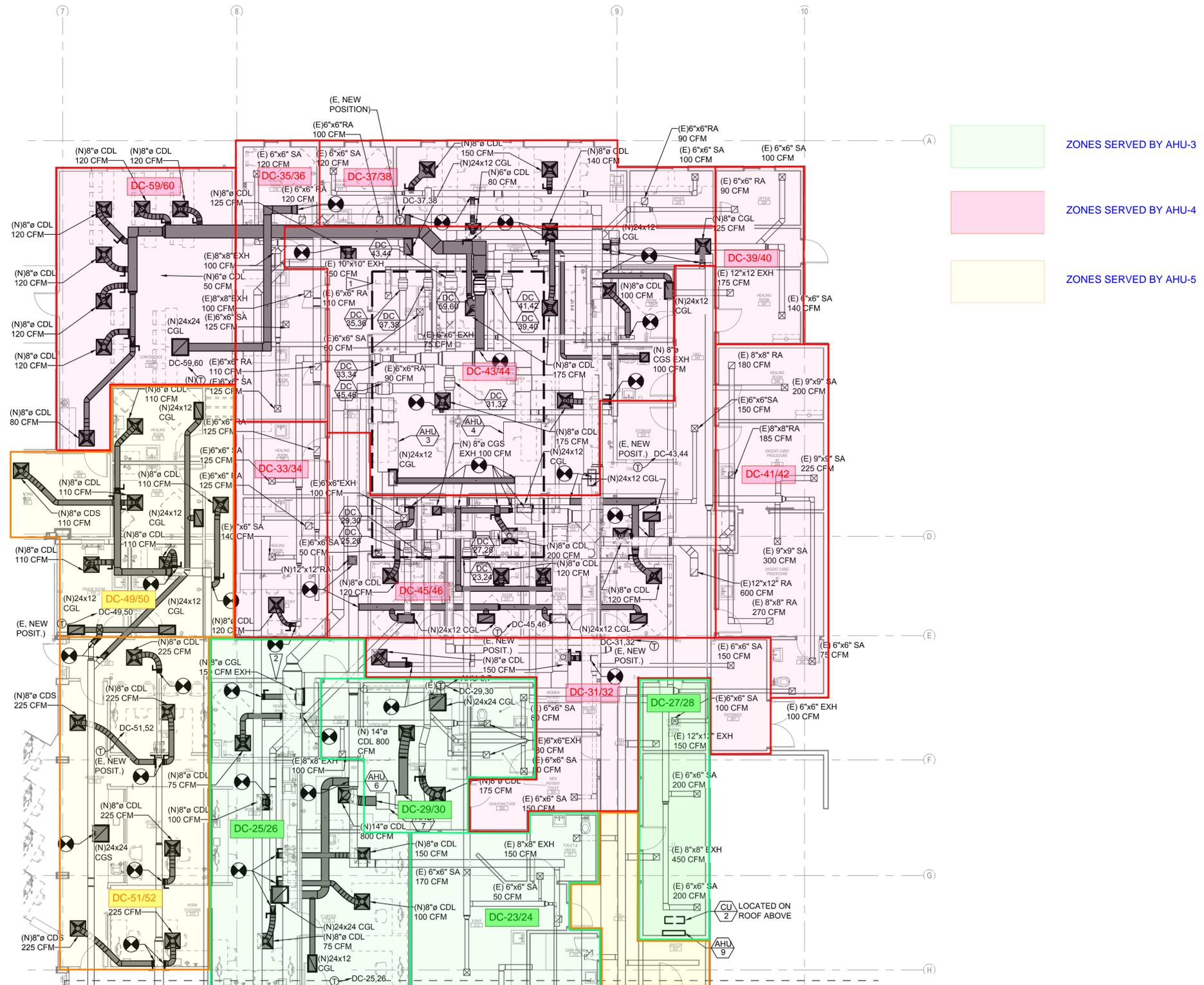
Tulalip Health Clinic Renovations

ASHRAE 170 Ventilation and ACH Calculations

Room Name and Number Based on Remodel 2016	Duct Coil Tags	Floor Area (sq.ft)	ASHRAE Table 8-2 Design Parameters			Airflow (CFM)		Notes	
			Space Type Category	Min OA ACH	Min. Total ACH	Ceiling Height (ft)	Total ACH Required per ASHRAE 170		Current Design Airflow
AHU-5								AHU-5 Total	6060
Hall 414	DC-47/48	Included with Operator #3							
Operator #5 417		Included with Operator #3							
Operator #4 418		Included with Operator #3							
Operator #3 419		766	Dental Treatment	2	3	9.5	364	1500	
Operator #2 420		Included with Operator #3							
Operator #1 421		Included with Operator #3							
Hall 416		Included with Operator #3							
DC-47/48 Total								1500	
Triage Room 103	DC-49/50	117	Urgent Care Triage	2	3	8	47	110	
Triage Room 102		115	Urgent Care Triage	2	3	8	46	110	
Waiting Room 106		178						110	
Hall 101		133						110	
Healing Room 104		107	Urgent Care Exam	2	3	8	43	110	
healing Room 105		108	Urgent Care Exam	2	3	8	43	110	
DC-49/50 Total								660	
Reception 100	DC-51/52	226						450	
Work Stations 012		135						225	
Office #1 109		135						225	
Referrals 108		140						225	
Hall 011		71						225	
DC-51/52 Total								1350	
Office Manager 438	DC-53/54	98						150	
Providers & Hygienists Office 427		166						250	
DC-53/54 Total								400	
Compressor Room 408	DC-55/56 AND (N) AHU-8	84						250	
DC-55/56 Total								250	
Operator #8 409	DC-57/58	174	Dental Treatment	2	3	9.5	83	110	
Operator #7 413		125	Dental Treatment	2	3	9.5	59	80	
Hygienist Operator #6 415		124	Dental Treatment	2	3	9.5	59	80	
Hall 412		130						100	
On Deck / Panorex 429		80						100	
Laboratory 430		100	Laboratory Work Room	2	3	8	40	100	
Toilet 431		51	Toilet Room		4	9.5	32	0	
Storage 432		60						0	
Hall 428		Included with On Deck / Panorex 429						0	
Sterilization 423		115						80	
Soil 424		Included with Steriliz 423						0	
Hall 309		54						0	
Janitor 407		49						0	
Assistants Copy 404		67						150	
Hall 422		84						0	
Hall 405		206						300	
Hall 406		84						100	
Check-Out 410		73						100	
Hall 410		Included with Check-Out 410						0	
Hall 433		128						0	
DC-57/58 Total								1400	
Hall 401	DC-61/62	136						125	
Operator #9 435		450	Dental Treatment	2	3	9.5	214	375	
Operator #10 436		Included with Operator #9							
Operator #11 436		Included with Operator #9							
DC-61/62 Total								500	

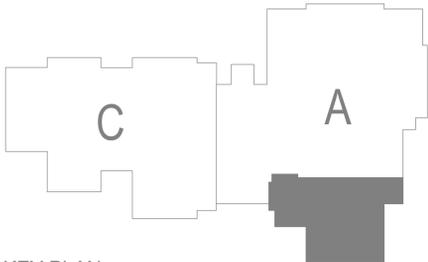
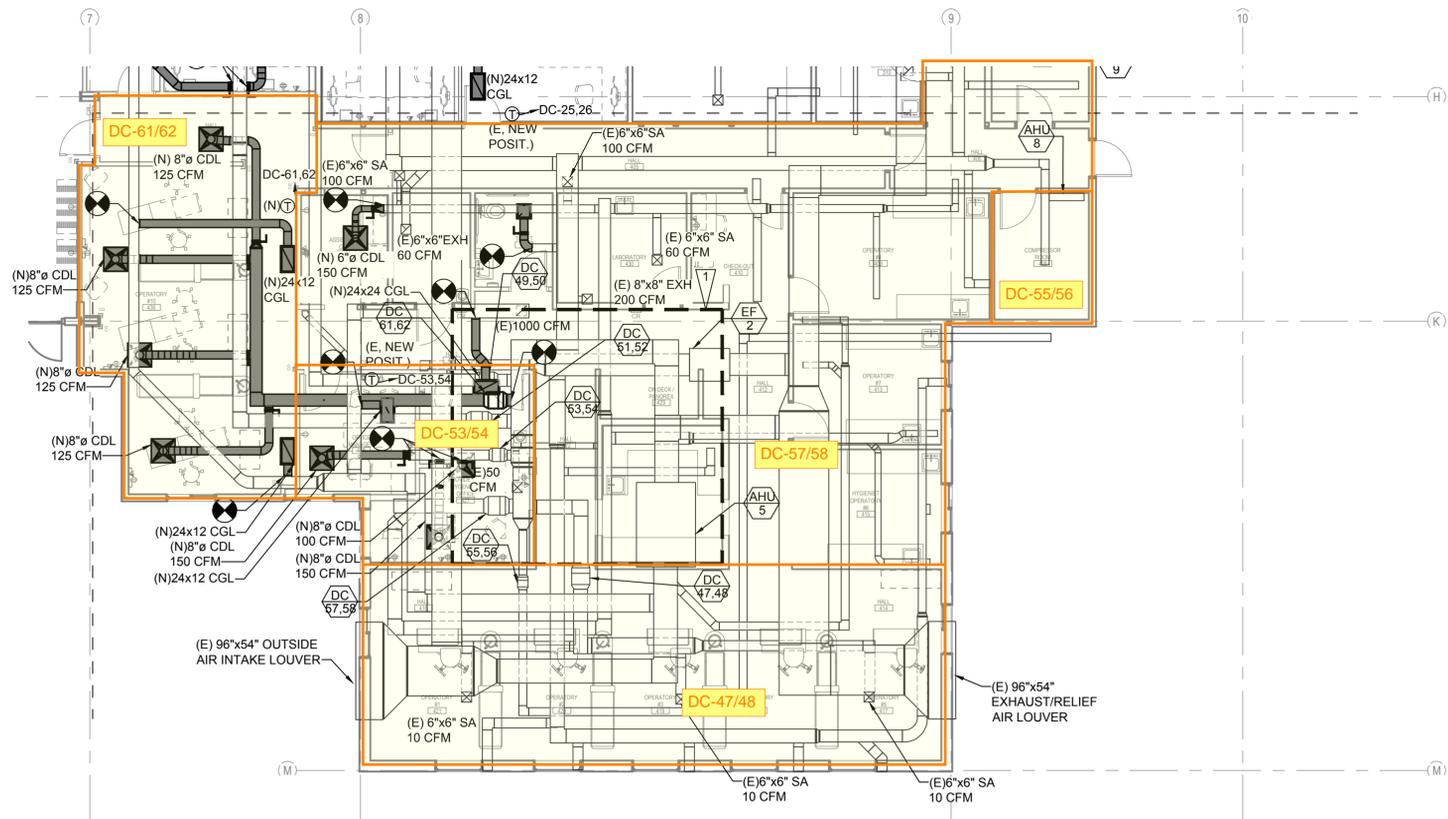
7.2 HVAC Zoning Layouts

CURRENT ZONING LAYOUT
AHU-3, AHU-4, AHU-5

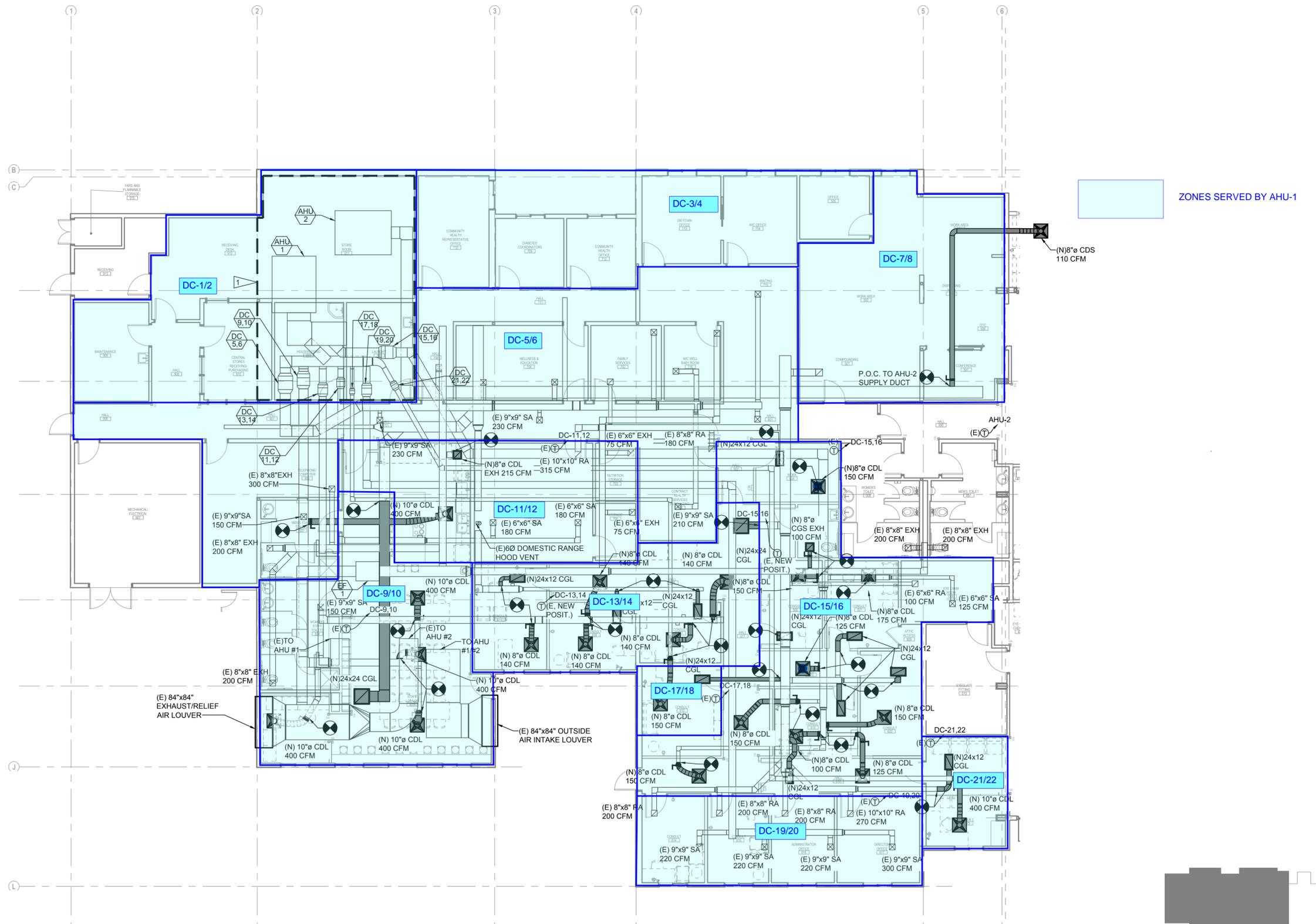


1 HVAC PLAN A
1/8" = 1'-0"

ZONES SERVED BY AHU-5



CURRENT ZONING LAYOUT
AHU-1



ATTACHMENT K

HYDRONIC			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CHILLED WATER SUPPLY (E)		BRANCH PIPE UP
	CHILLED WATER RETURN (E)		TEE & UP
	HOT WATER SUPPLY (E)		TEE
	HOT WATER RETURN (E)		ELBOWS, 90° & 45°
	EXISTING PIPING		CAP
	GATE VALVE (GV)		PUMP
	GLOBE VALVE		THERMOMETER
	BUTTERFLY VALVE		PRESSURE GAGE
	PRESSURE REDUCING VALVE (PRV)		CROSSING LINES, NON CONNECTING
	CHECK VALVE (CV)		PIPE CONTINUATION
	FLOW CONTROL VALVE		GAS COCK
	TEMP./PRESS. RELIEF VALVE (T&PRV)		ABOVE FINISHED FLOOR
	BALL VALVE		MECHANICAL CONTRACTOR
	BALANCING COCK (BC)		ELECTRICAL CONTRACTOR
	2-WAY CONTROL VALVE		GENERAL CONTRACTOR
	3-WAY CONTROL VALVE		POINT OF CONNECTION
	4-WAY CONTROL VALVE		BELOW FINISHED FLOOR
	PIPE DOWN		REDUCER
	PIPE UP		STRAINER
	BRANCH-TOP CONNECTION		UNION
	BRANCH-BOTTOM CONNECTION		FIRE HYDRANT (FH)
	BRANCH-SIDE CONNECTION		THRUST BLOCK (TB)
	FLOW DIRECTION		VACUUM BREAKER
	VALVE IN RISER/ DROP		DRAIN VALVE
	PIPE ANCHOR		CONDENSATE PIPING
	PIPE GUIDE		NATURAL GAS PIPING
	FLEXIBLE CONNECTION (PIPE)		REFRIGERANT PIPING ①
			BRANCH PIPE DOWN

NOTES:
 1. SINGLE LINE INDICATED ON PLANS DESIGNATES THE PROPOSED ROUTING FOR THE REFRIGERATION PIPING BETWEEN THE INDOOR AND OUTDOOR UNITS. THAT SINGLE LINE REPRESENTS ALL THE REQUIRED PIPING RUNS REQUIRED FOR THE SYSTEM DESIGNED.

MECHANICAL LEGEND			
HVAC			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP		FLEXIBLE DUCT
	SUPPLY DUCT DOWN		VOLUME DAMPER (VD)
	RETURN, RELIEF, TRANSFER, OSA DUCT UP		MOTORIZED DAMPER
	RETURN, RELIEF, TRANSFER, OSA DUCT DOWN		CEILING RADIANT FIRE DAMPER
	EXHAUST DUCT UP		FIRE DAMPER
	EXHAUST DUCT DOWN		SMOKE DAMPER
	RECTANGULAR DUCT, SQUARE ELBOW UP		FLEXIBLE CONNECTION (DUCT)
	RECTANGULAR DUCT, RADIUS ELBOW UP		TURNING VANES (TV)
	RECTANGULAR DUCT, SQUARE ELBOW DOWN		BACKDRAFT DAMPER (BD)
	RECTANGULAR DUCT, RADIUS ELBOW DOWN		THERMOSTAT (TSTAT)
	ROUND DUCT ELBOW UP		HUMIDISTAT (HSTAT)
	ROUND DUCT ELBOW DOWN		THERMOSTAT WITH GUARD OR FLAT PLATE (SEE SPECIFICATIONS)
	CEILING AIR TERMINAL - SQUARE		EMERGENCY AIR DISTRIBUTION SHUTOFF PUSH BUTTON SWITCH
	CEILING AIR TERMINAL - ROUND		REFRIGERANT DETECTION SENSOR AND ALARM
	AIR TERMINAL SIZE, TYPE & CFM		SPACE PRESSURE SENSOR
	SQUARE DUCT		CARBON DIOXIDE SENSOR
	ROUND DUCT		BELOW FINISHED FLOOR
	OVAL DUCT		ABOVE FINISHED FLOOR
	MECHANICAL CONTRACTOR		MECHANICAL ACCESS AREA
	ELECTRICAL CONTRACTOR		WEATHER PROOF LOUVER
	GENERAL CONTRACTOR		

DRAWING INDEX	
SHEET	DESCRIPTION
M1.0	COVER PAGE, MECHANICAL LEGEND / SYMBOLS / DRAWING LIST
M2.1	MECHANICAL CEILING OVERALL PLAN
M2.2	MECHANICAL HVAC OVERALL PLAN
M2.3	MECHANICAL PIPING OVERALL PLAN
MD3.1	ENLARGED DEMOLITION PLAN - MECHANICAL ROOM
MD3.2	ENLARGED DEMOLITION PLANS - PLATFORM A
MD3.3	ENLARGED DEMOLITION PLANS - PLATFORM B
MD3.4	ENLARGED DEMOLITION PLANS - PLATFORM C
M3.1	ENLARGED PLAN - MECHANICAL ROOM
M3.2	ENLARGED PLANS - PLATFORM A
M3.3	ENLARGED PLANS - PLATFORM B
M3.4	ENLARGED PLANS - PLATFORM C
M5.0	MECHANICAL SCHEDULES
M5.1	MECHANICAL SCHEDULES

GENERAL NOTES

- ALL WORK PERFORMED SHALL BE DONE IN STRICT ACCORDANCE TO ALL APPLICABLE MECHANICAL, BUILDING, ENERGY, AND LOCAL CODES, WITH AMENDMENTS.
- WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- COORDINATE MECHANICAL WORK WITH ELECTRICAL WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
- COORDINATE HVAC, PLUMBING, AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER ALL PIPING EXCEPT GRAVITY SYSTEMS FOR AVAILABLE SPACE.
- COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
- REFER TO TYPICAL DETAILS PROVIDED IN THIS DRAWING SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS.
- ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
- PROVIDE 4" MINIMUM CONCRETE BASES (HOUSEKEEPING PADS) UNDER FLOOR MOUNTED MECHANICAL EQUIPMENT. THIS INCLUDED, BUT IS NOT LIMITED TO WATER HEATERS AND OUTDOOR HEAT PUMPS.
- LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS, DAMPERS, CONTROLS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE.

PLUMBING:

- DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIAL TIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, PLUMBING FITTINGS AND ALL OTHER APPURTENANCES IN CONTACT WITH DRINKING WATER SHALL BE LEAD-FREE EXCEPT THOSE EXPLICITLY EXEMPTED IN SECTION 3874 OF THE SAFE WATER DRINKING ACT. LEAD-FREE SHALL MEAN (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO WETTED SURFACES OF DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIAL TIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, AND PLUMBING FITTINGS.

PIPING:

- INSULATE PIPING PER INSULATION SCHEDULE IN SPECIFICATIONS.
- PROVIDE COMPLETE CONDENSATE DRAINAGE SYSTEM FOR NEW AIR HANDLING UNITS AS SHOWN ON PLANS. SLOPE DRAIN PIPING TO DRAIN LOCATION AT A MINIMUM OF 1/8" PER FOOT. PIPING & FITTINGS SHALL BE COPPER WITH INSULATION PER SCHEDULE.
- SIZE REFRIGERANT PIPING FOR SPLIT UNITS PER MANUFACTURER'S RECOMMENDATION.
- VALVES SHALL BE INSTALLED SO THAT SYSTEM REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- PROVIDE UNIONS AND/OR FLANGES AT EACH PIECE OF EQUIPMENT.
- THE PROPOSED ROUTING FOR THE REFRIGERATION PIPING BETWEEN THE INDOOR AND OUTDOOR UNITS IS INDICATED AS A SINGLE LINE ON THE PLANS. THAT SINGLE LINE REPRESENTS ALL THE PIPING RUNS REQUIRED FOR THE SYSTEM DESIGNED.

HVAC/SHEET METAL:

- DUCTWORK IN THIS BUILDING TO BE CONSTRUCTED AND SEALED PER IMC AND SMACNA PRESSURE CLASS 2" (LOW PRESSURE) REQUIREMENTS. ALL DUCTS TO BE SEALED TO SMACNA SEAL CLASS A:
 - DUCTWORK BETWEEN DOAU AND GRD'S SHALL BE CONSTRUCTED TO A MINIMUM OF PRESSURE CLASS 2.
 - ALL DUCTWORK TO TRANSFER DUCTS, ROOF HOODS OR LOUVERS, AND EXHAUST FANS SHALL BE CONSTRUCTED TO A MINIMUM OF PRESSURE CLASS 2.
- PROVIDE TURNING VANES IN ALL MITERED RECTANGULAR DUCT ELBOWS & TEES.
- PROVIDE MOTORIZED DAMPERS ON OUTDOOR AIR SUPPLY AND EXHAUST OPENINGS. DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE FOOT AT 1" W.C.
- ALL DUCTWORK SHALL BE INSULATED PER INSULATION SCHEDULE IN SPECIFICATIONS.
- PROVIDE TEMPORARY COVERS OVER OPEN ENDS OF EQUIPMENT AND DUCTWORK DURING CONSTRUCTION.
- PROVIDE MANUAL VOLUME DAMPER FOR EACH DIFFUSER, REGISTER, AND GRILLE.
- PROVIDE DUCT ACCESS DOORS AT BACKDRAFT DAMPERS, MOTORIZED CONTROL DAMPERS, DUCT AIRFLOW STATIONS, AND LOUVER PLENUMS.



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COVER PAGE, MECHANICAL
 LEGEND/SYMBOLS/
 DRAWING LIST

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY: TT

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PROJECT MANAGER: SF

DRAWING No. of TOTAL

M1.0

DATE: 02-17-2020
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MECHANICAL CEILING
OVERALL PLAN

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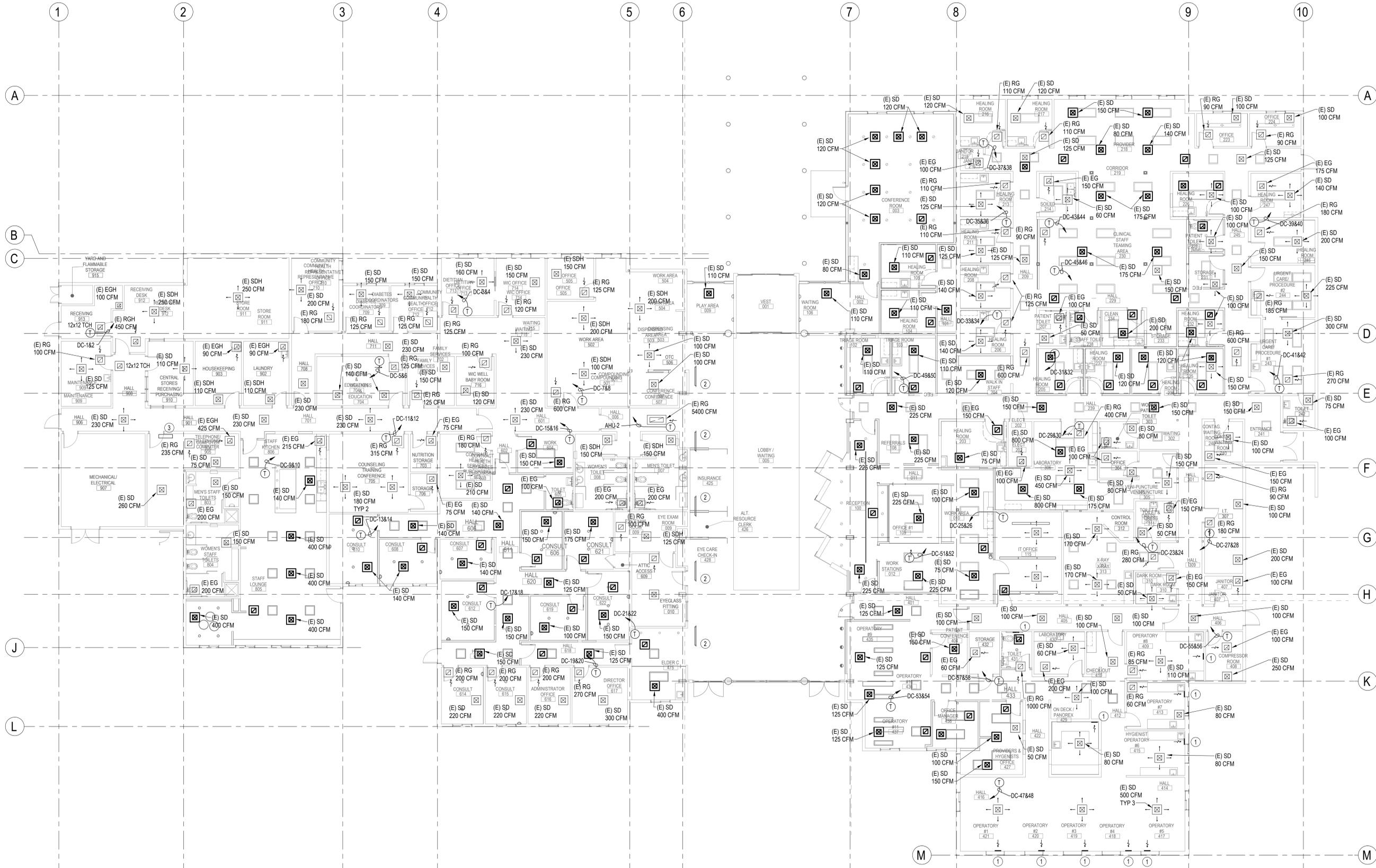
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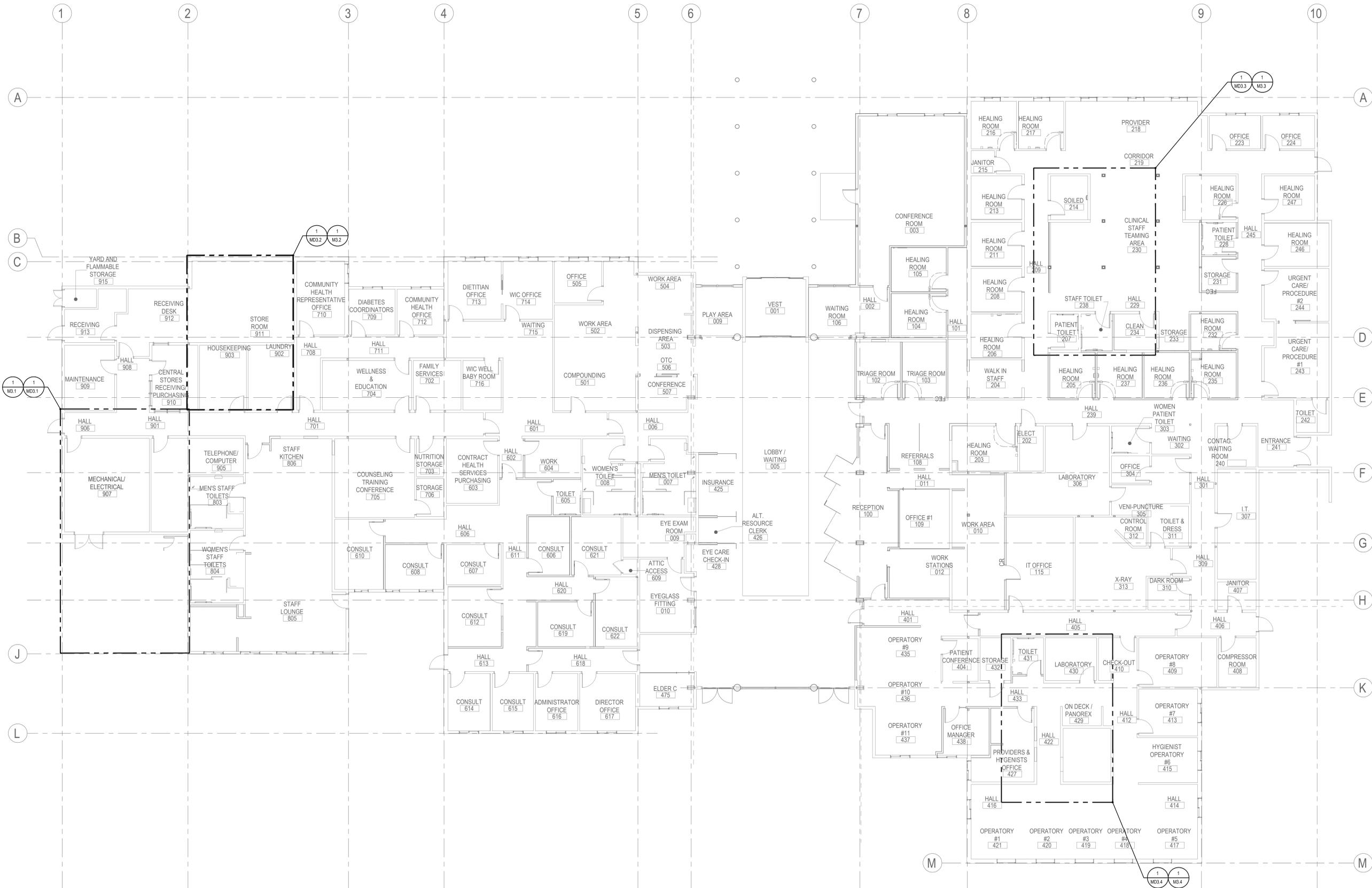


MECHANICAL CEILING OVERALL PLAN
SCALE: 1/8"=1'-0"
NORTH

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MECHANICAL HVAC
OVERALL PLAN



MECHANICAL HVAC OVERALL PLAN
SCALE: 1/8"=1'-0" NORTH

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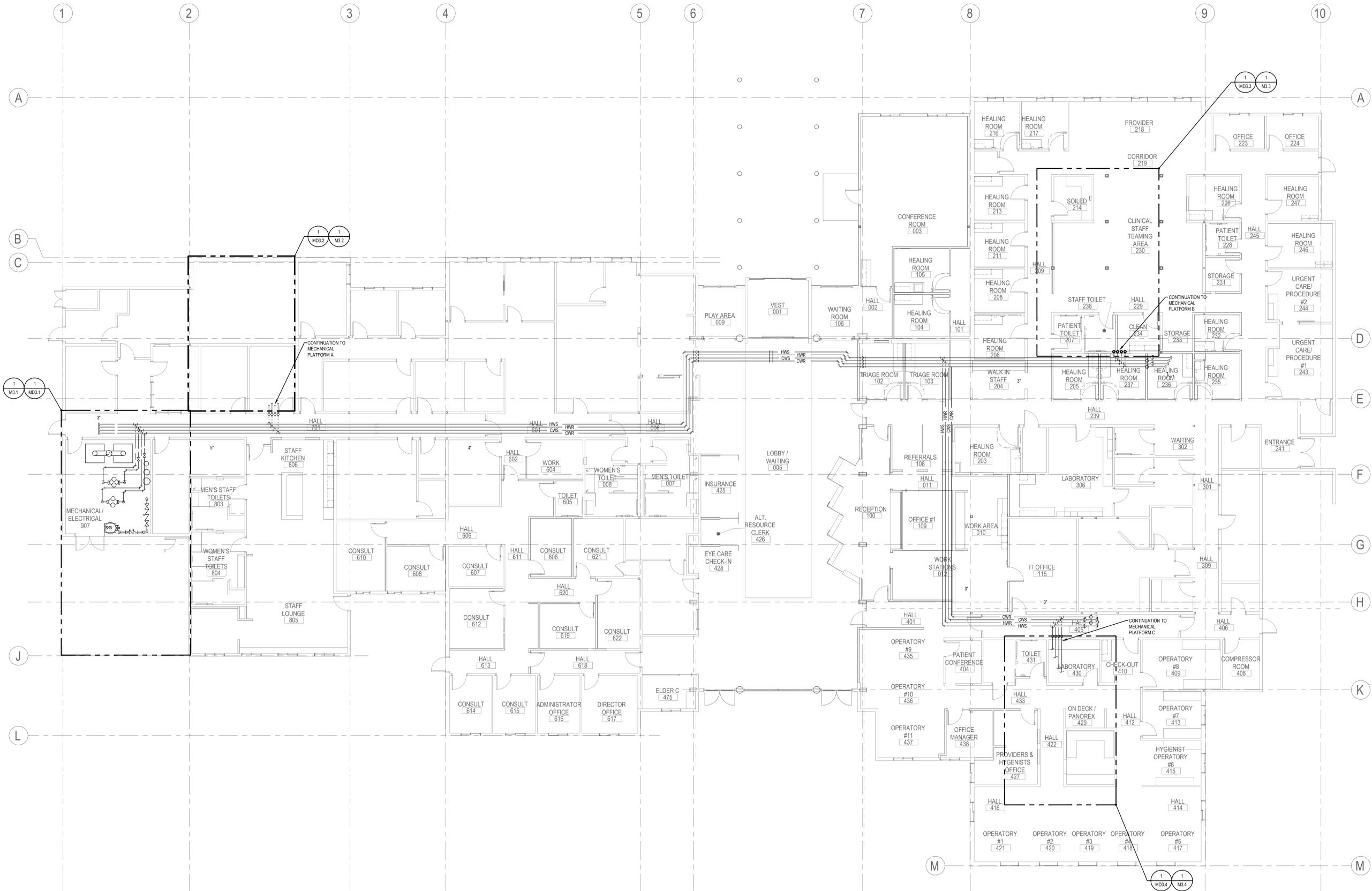
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MECHANICAL PIPING
OVERALL PLAN



MECHANICAL PIPING OVERALL PLAN
SCALE: 1/8"=1'-0" NORTH

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NO.	DESCRIPTION	DATE

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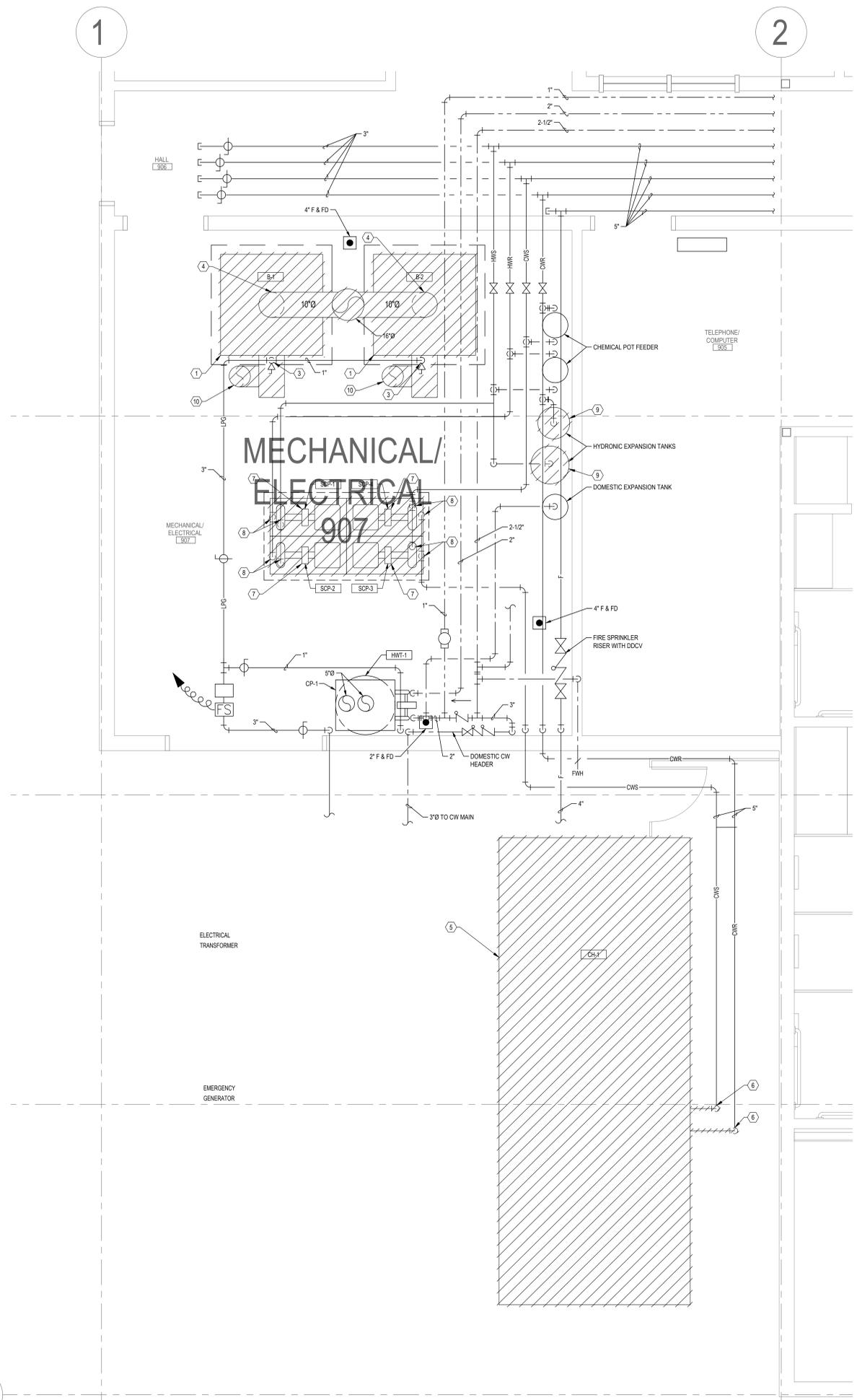
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M2.3

DATE: 02-17-2020
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GENERAL NOTES
 1. ALL DEMOLISHED EQUIPMENT TO BE DISPOSED OFF SITE.

- DEMOLITION NOTES**
- ① REMOVE EXISTING BOILERS B-1 & B-2.
 - ② DISCONNECT HEATING WATER SUPPLY AND HEATING WATER RETURN PIPING TO BOILERS. CUT BACK PIPING AS REQUIRED TO FACILITATE INSTALLATION OF NEW BOILERS.
 - ③ DISCONNECT PROPANE PIPING TO BOILERS. CUT BACK PIPING AS REQUIRED TO FACILITATE INSTALLATION OF NEW BOILERS.
 - ④ REMOVE FLUE VENTING FOR BOILERS ALL THE WAY TO ROOF TERMINATION. REMOVE ALL FLUE SUPPORTS, HANGERS, AND APPURTENANCES.
 - ⑤ REMOVE AIR-COOLED CHILLER.
 - ⑥ DISCONNECT CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING TO CHILLER.
 - ⑦ REMOVE HEATING WATER PUMPS. DISCONNECT SUPPLY AND RETURN PIPING TO PUMPS.
 - ⑧ REMOVE CHILLED WATER PUMPS. DISCONNECT SUPPLY AND RETURN PIPING TO PUMPS.
 - ⑨ REMOVE HYDRONIC EXPANSION TANK.
 - ⑩ REMOVE COMBUSTION AIR INTAKE DUCT FOR BOILER ALL THE WAY TO ROOF TERMINATION. REMOVE ALL DUCT SUPPORTS, HANGERS, AND APPURTENANCES.



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ENLARGED DEMOLITION
 PLAN - MECHANICAL ROOM

REVISIONS		
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MD3.1

DATE: 02-17-2020
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 PROJECT No. 51525050

ENLARGED DEMOLITION PLAN - MECHANICAL ROOM
 SCALE: 1/2"=1'-0" NORTH

GENERAL NOTES
1. ALL DEMOLISHED EQUIPMENT TO BE DISPOSED OFF SITE.

DEMOLITION NOTES

- ① REMOVE AIR HANDLING UNIT.
- ② REMOVE DUCT MOLDED HEATING AND CHILLED WATER COIL.
- ③ REMOVE VERTICAL DROP HEATING WATER SUPPLY AND RETURN PIPING FROM CEILING DOWN TO COIL CONNECTION. PIPING TO BE RECONNECTED TO NEW TERMINAL UNIT.
- ④ REMOVE CHILLED WATER SUPPLY AND RETURN PIPING BACK TO MAIN. CAP PIPING AT MAIN.
- ⑤ REMOVE CONDENSATE PIPING.

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ENLARGED DEMOLITION
PLANS - PLATFORM A

REVISIONS		
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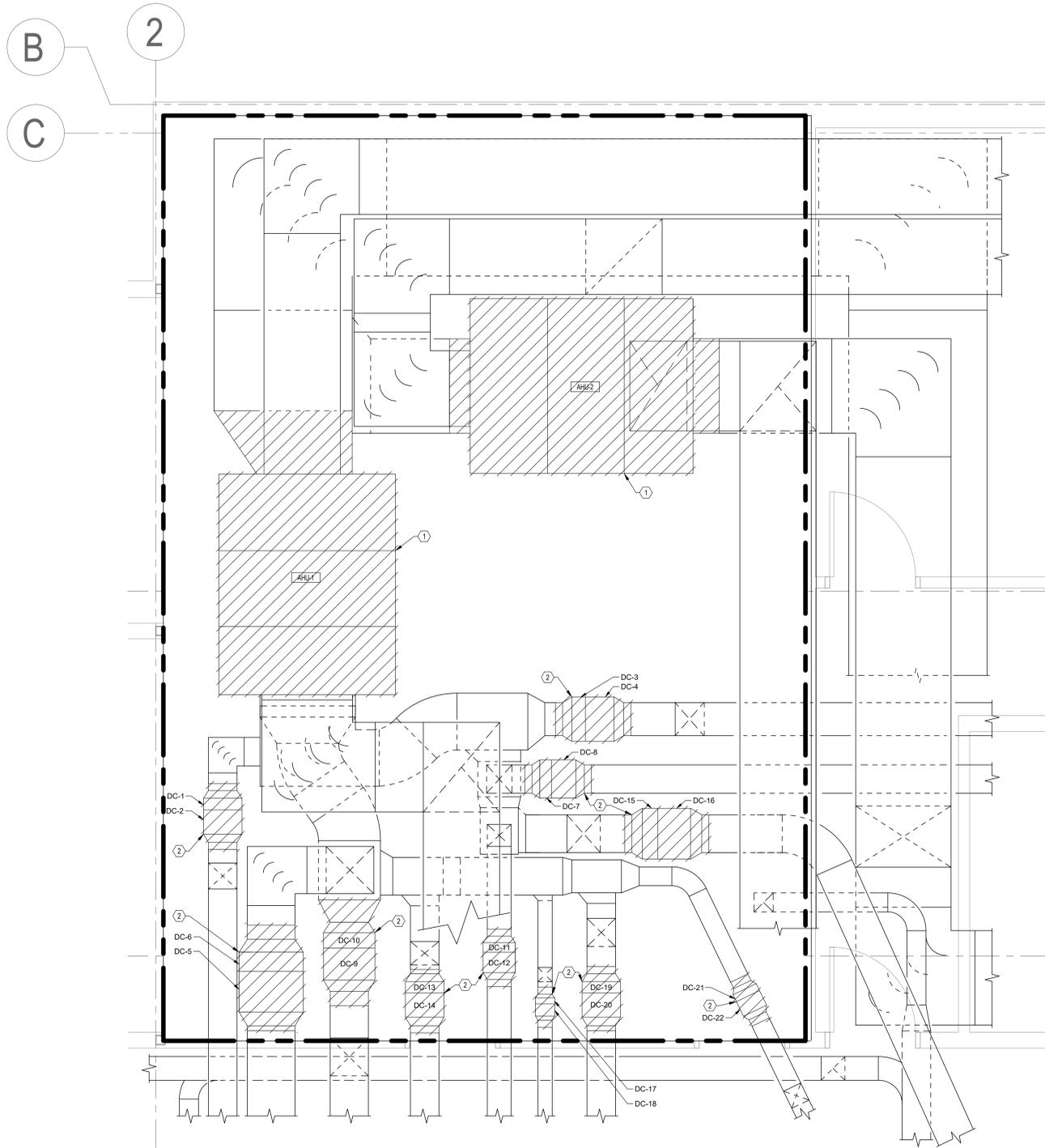
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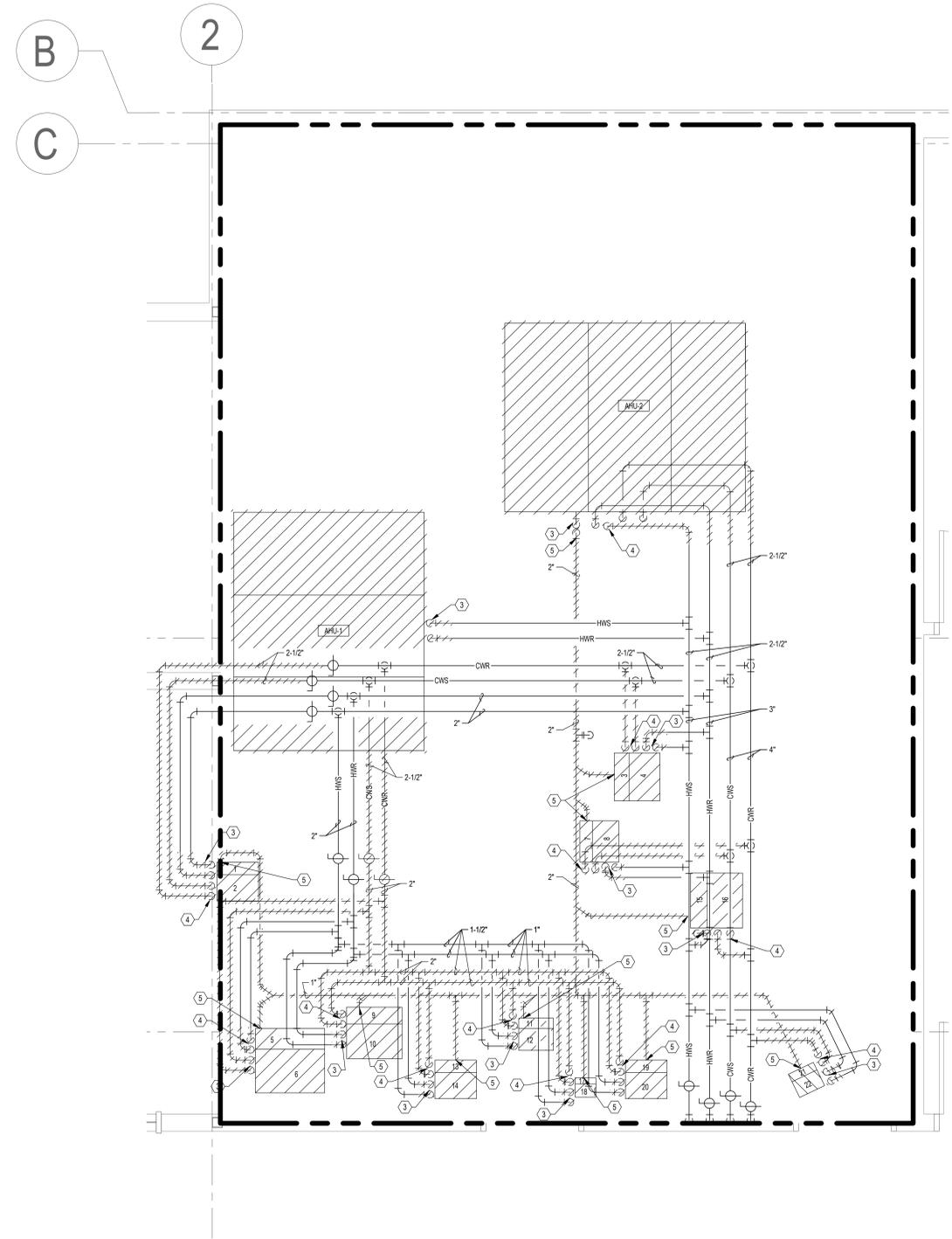
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MD3.2

DATE: 02-17-2028
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PROJECT No. 51525090



ENLARGED DEMOLITION PLAN - HVAC DUCTWORK PLATFORM A
SCALE: 1/2"=1'-0" NORTH



ENLARGED DEMOLITION PLAN - HYDRONIC PIPING PLATFORM A
SCALE: 1/2"=1'-0" NORTH

REVISIONS		
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PROJECT MANAGER: SF

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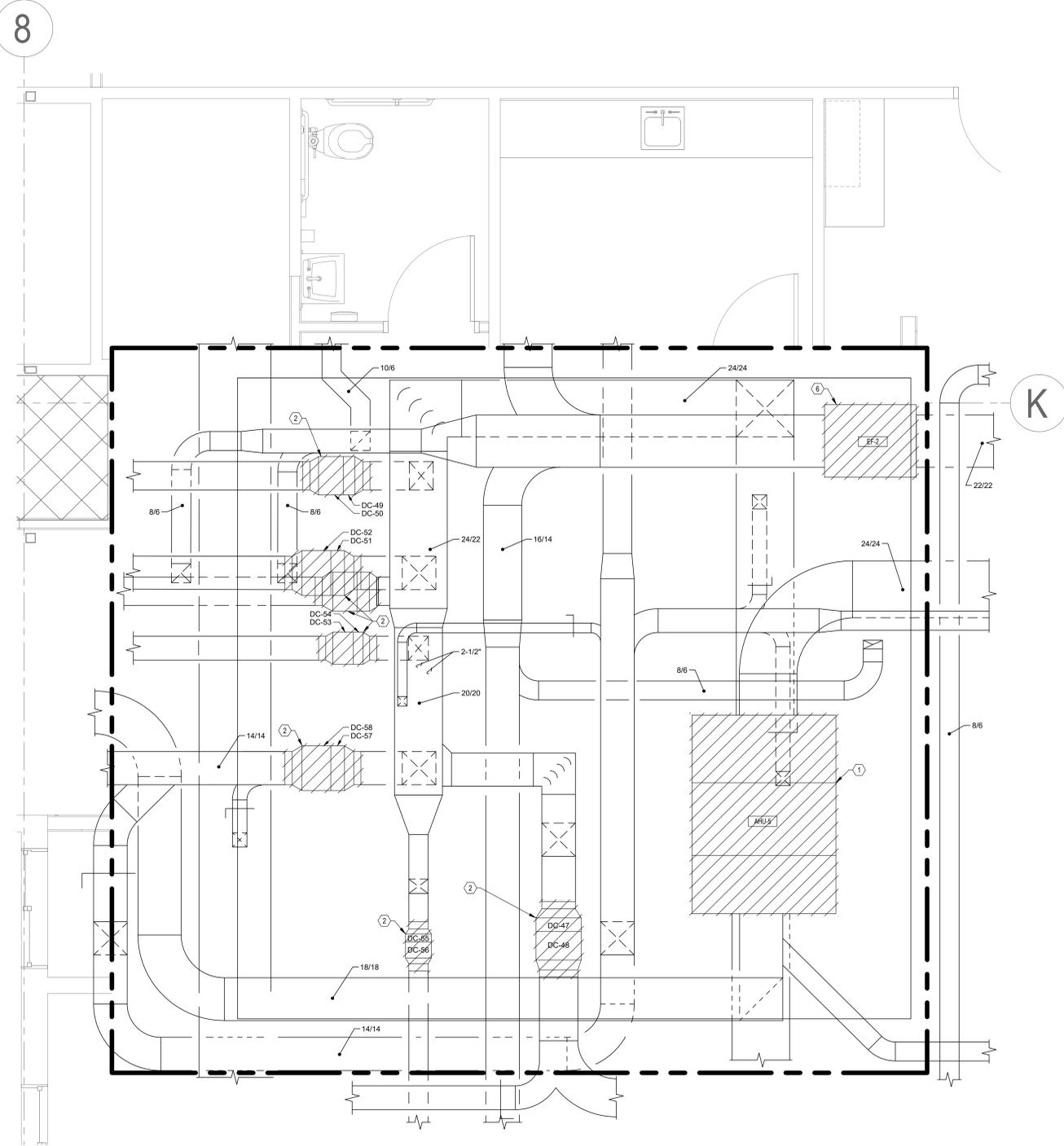
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DATE: 02-17-2020
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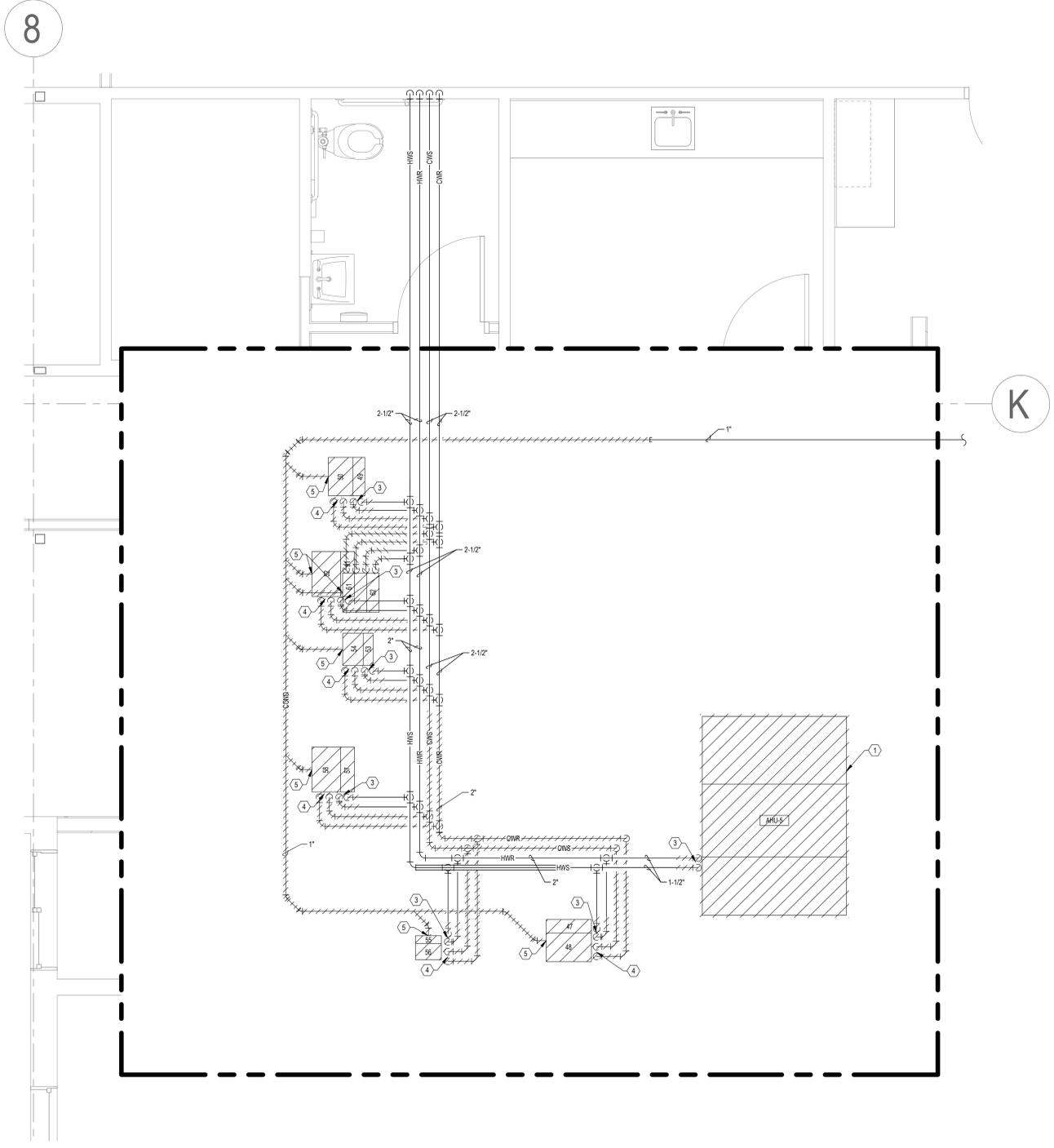
GENERAL NOTES
1. ALL DEMOLISHED EQUIPMENT TO BE DISPOSED OFF SITE.

DEMOLITION NOTES

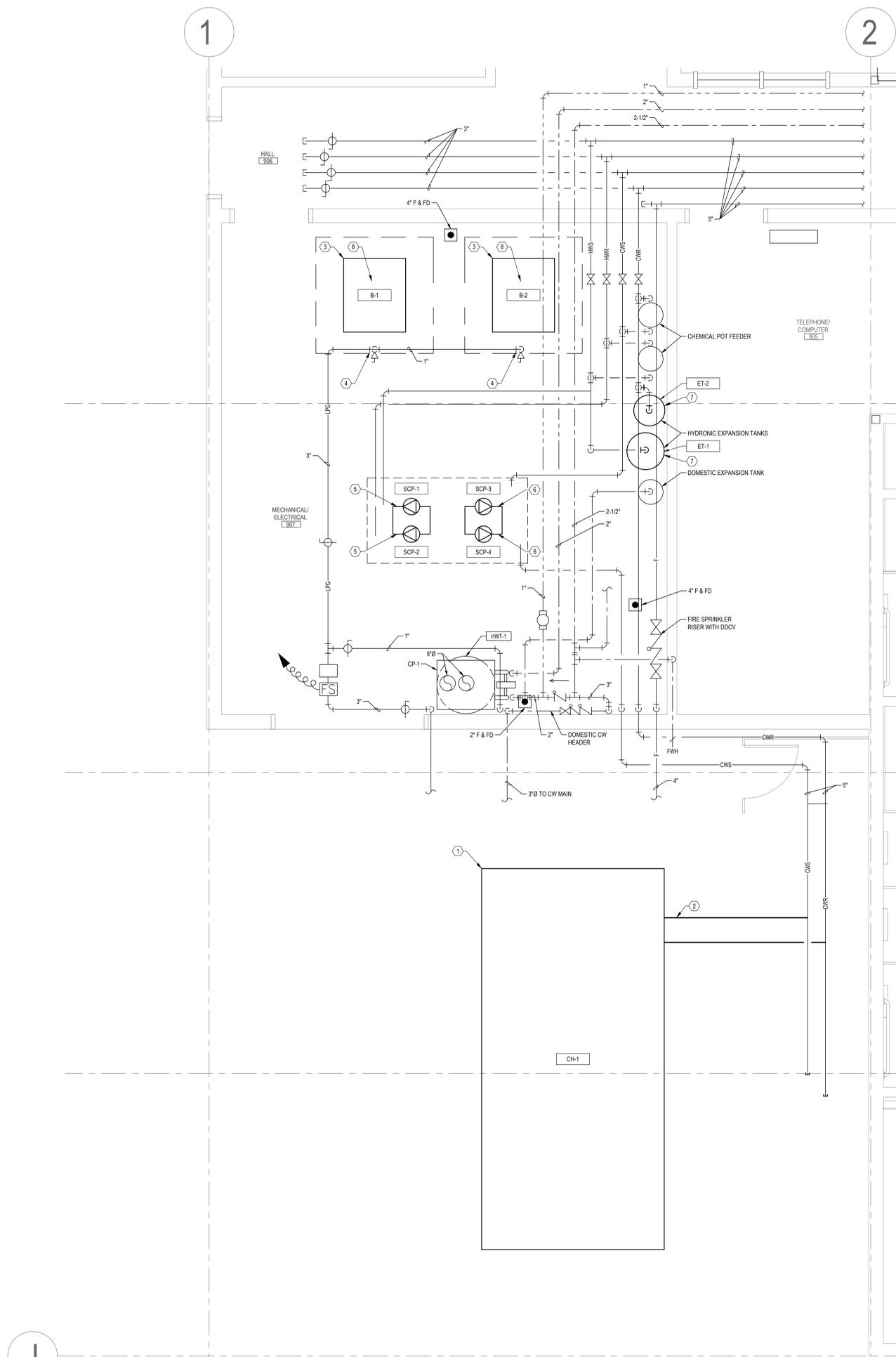
- ① REMOVE AIR HANDLING UNIT.
- ② REMOVE DUCT MOLDED HEATING AND CHILLED WATER COIL.
- ③ REMOVE VERTICAL DROP HEATING WATER SUPPLY AND RETURN PIPING FROM CEILING DOWN TO COIL CONNECTION. PIPING TO BE RECONNECTED TO NEW TERMINAL UNIT.
- ④ REMOVE CHILLED WATER SUPPLY AND RETURN PIPING BACK TO MAIN. CAP PIPING AT MAIN.
- ⑤ REMOVE CONDENSATE PIPING.
- ⑥ REMOVE EXISTING EXHAUST FAN EF-2.



ENLARGED DEMOLITION PLAN - HVAC DUCTWORK PLATFORM C
SCALE: 1/2"=1'-0" NORTH



ENLARGED DEMOLITION PLAN - HYDRONIC PIPING PLATFORM C
SCALE: 1/2"=1'-0" NORTH



CONSTRUCTION NOTES

- ① NEW AIR COOLED CHILLER INSTALLED ON EXISTING HOUSEKEEPING PAD.
- ② RECONNECT CHILLED WATER SUPPLY AND CHILLED WATER PIPING TO NEW CHILLER.
- ③ INSTALL NEW BOILER ON EXISTING HOUSEKEEPING PAD.
- ④ RECONNECT HEATING WATER PIPING, PROPANE PIPING TO NEW BOILERS.
- ⑤ NEW HEATING WATER PUMP. CONNECT PIPING TO EXISTING.
- ⑥ NEW CHILLED WATER PUMP. CONNECT PIPING TO EXISTING.
- ⑦ INSTALL NEW EXPANSION TANK.
- ⑧ PROVIDE NEW FLUE VENTING FOR BOILER SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.



Apollo

MECHANICAL CONTRACTORS

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ENLARGED PLAN -
MECHANICAL ROOM

REVISIONS		
NO.	DESCRIPTION	DATE

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DRAWING No. of TOTAL

M3.1

DATE: 02-17-2020
SUBMITTAL: SCHEMATIC DESIGN
PROJECT No. 51525090

ENLARGED PLAN - MECHANICAL ROOM

SCALE: 1/2"=1'-0"

NORTH



GENERAL NOTES

1. PROVIDE CONDENSATE DRAIN CONNECTION FOR NEW AIR HANDLING UNITS.
2. CONNECT CHILLED WATER PIPING FROM MAINS TO NEW HANDLING UNITS CHILLED WATER COILS.
3. MAINTAIN 2 TIMES DUCT DIAMETER AT INLET OF NEW VAV TERMINAL UNITS.
4. RIGHT HAND / LEFT HAND COIL PIPING CONNECTIONS TO VAV TERMINAL UNITS TO BE CONFIRMED.

NOTES

- ① CONNECT HEATING WATER SUPPLY AND RETURN PIPING TO NEW VAV REHEAT COIL.

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**ENLARGED MECHANICAL PLANS -
PLATFORM A**

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY: TT

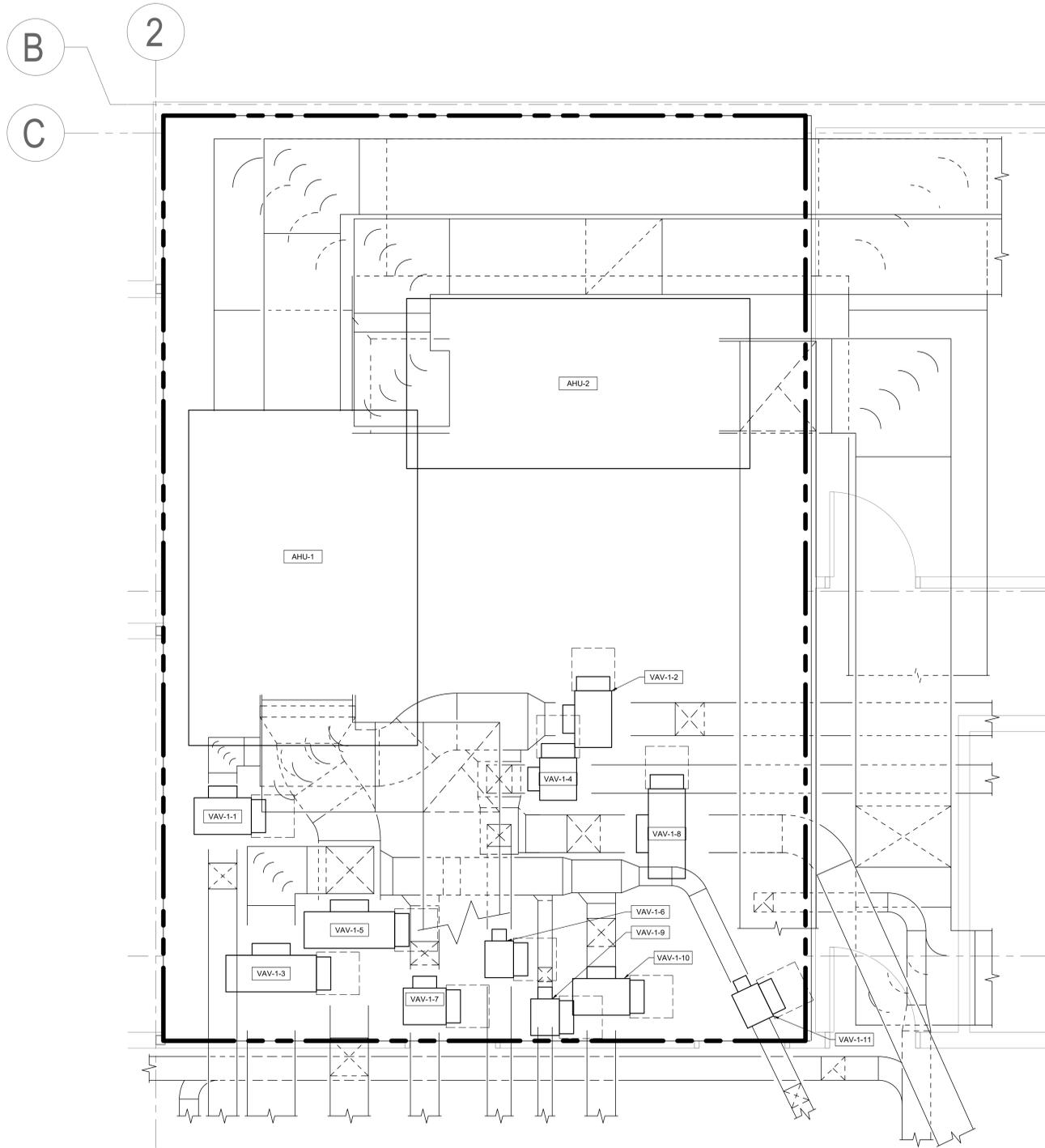
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PROJECT MANAGER: SF

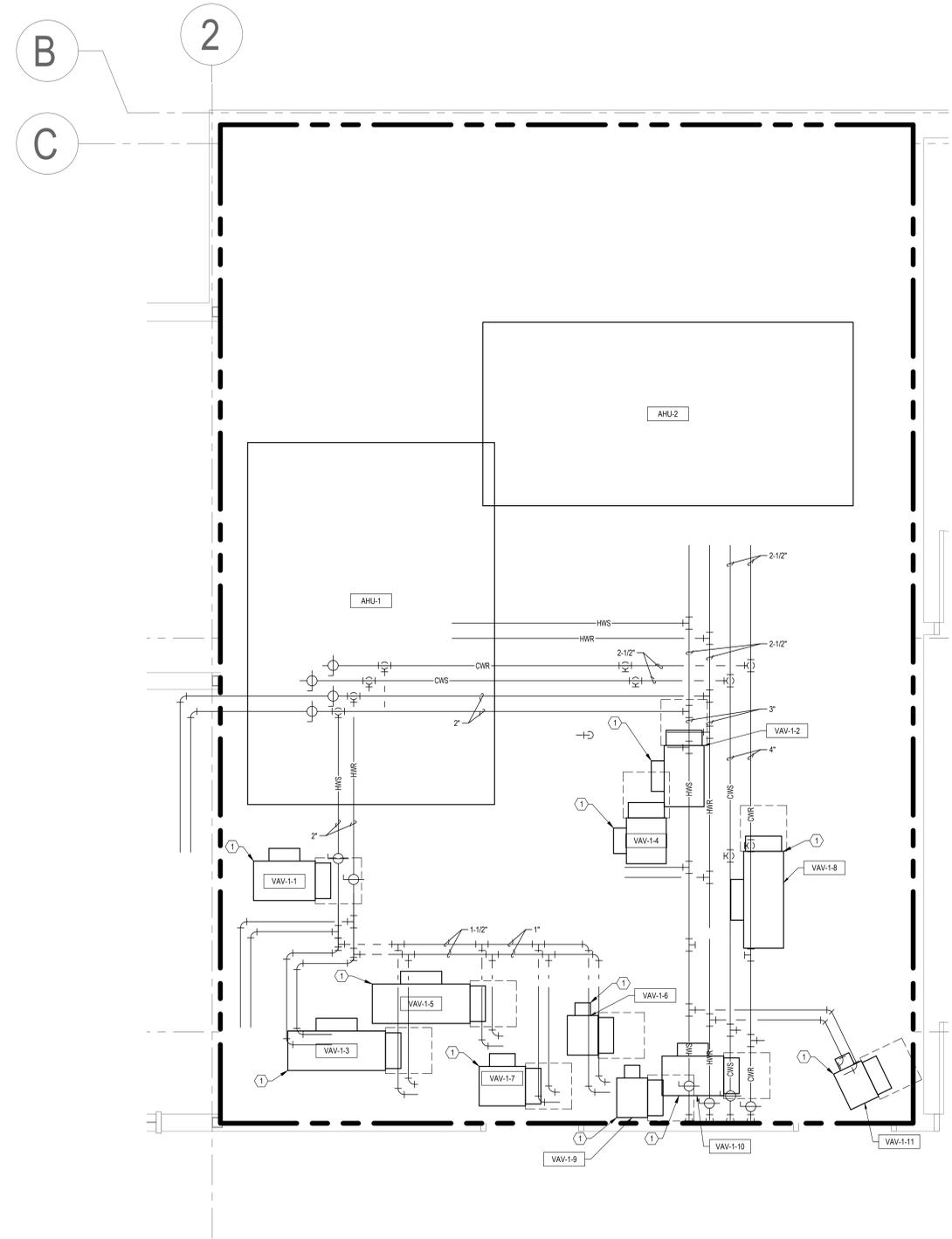
DRAWING No. of TOTAL

M3.2

DATE: 02-17-2020
SUBMITTAL: SCHEMATIC DESIGN
PROJECT No. 51525090



ENLARGED MECHANICAL PLAN - HVAC DUCTWORK PLATFORM A
SCALE: 1/2"=1'-0" NORTH



ENLARGED MECHANICAL PLAN - HYDRONIC PIPING PLATFORM A
SCALE: 1/2"=1'-0" NORTH

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MECHANICAL SYSTEMS REPAIR AND UPGRADE
7520 TOTEM BEACH RD
TULALIP, WA 98271

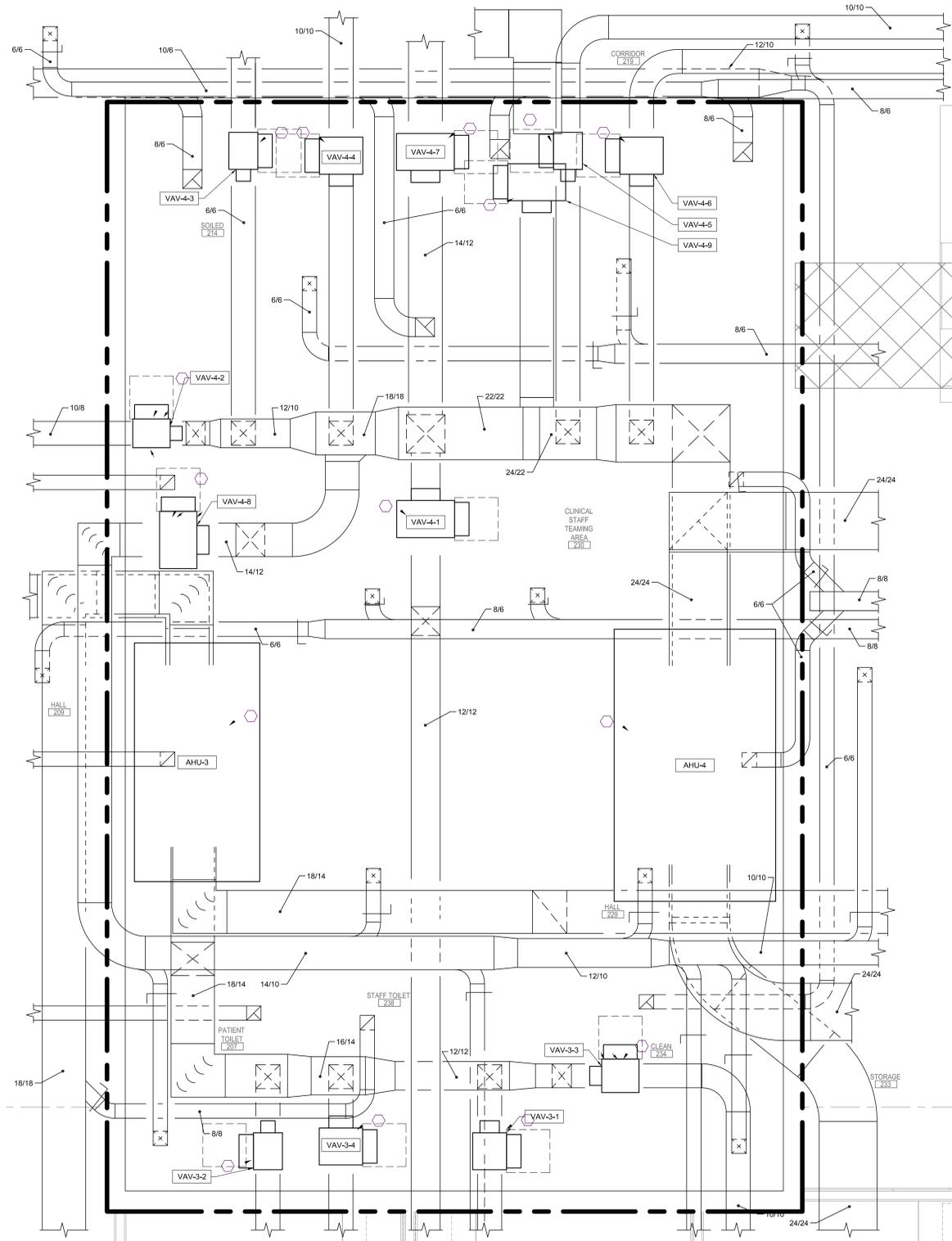
ENLARGED MECHANICAL PLANS -
PLATFORM B

GENERAL NOTES

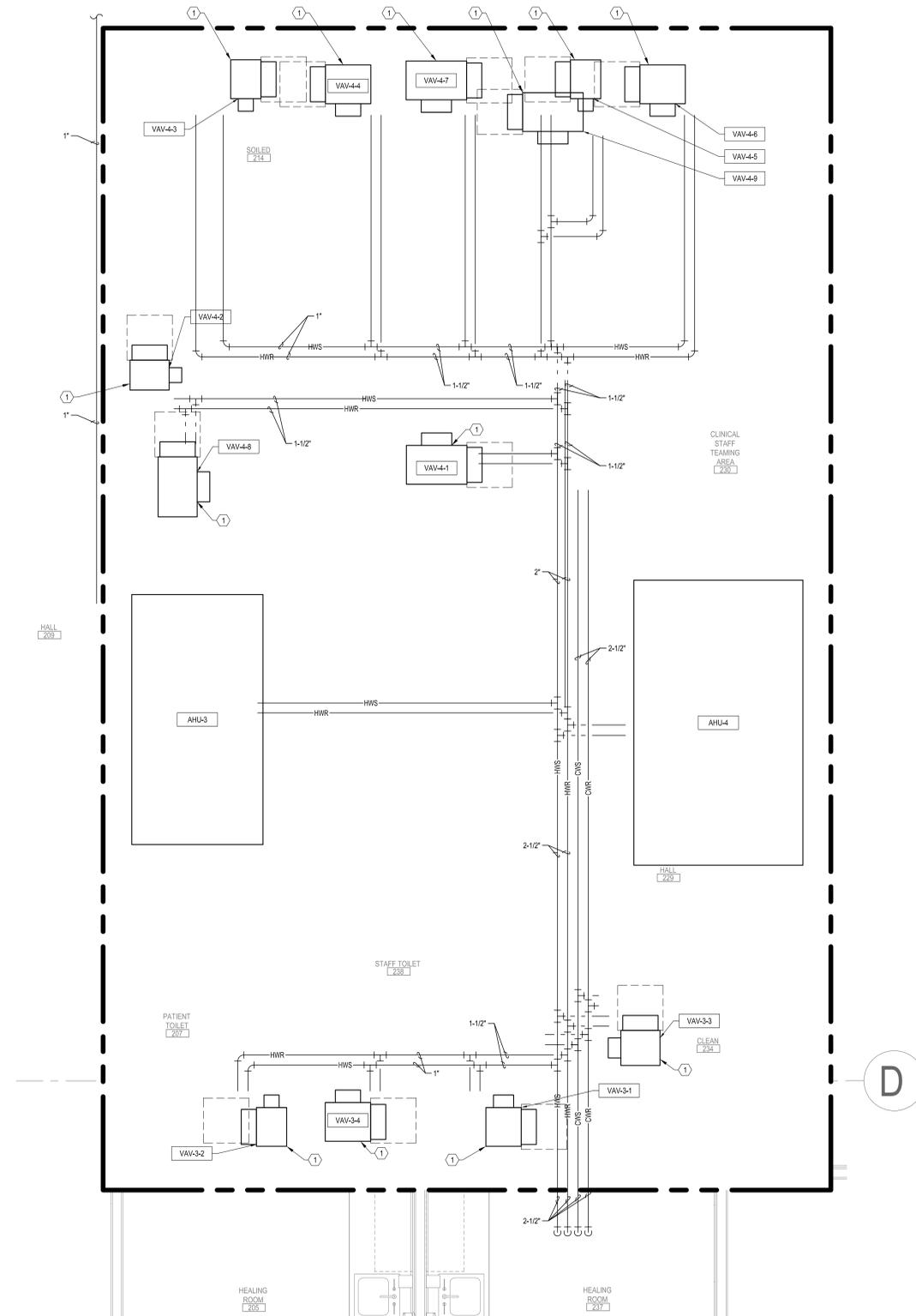
1. PROVIDE CONDENSATE DRAIN CONNECTION FOR NEW AIR HANDLING UNITS.
2. CONNECT CHILLED WATER PIPING FROM MAINS TO NEW HANDLING UNITS CHILLED WATER COILS.
3. MAINTAIN 2 TIMES DUCT DIAMETER AT INLET OF NEW VAV TERMINAL UNITS.
4. RIGHT HAND / LEFT HAND COIL PIPING CONNECTIONS TO VAV TERMINAL UNITS TO BE CONFIRMED.

NOTES

- CONNECT HEATING WATER SUPPLY AND RETURN PIPING TO NEW VAV REHEAT COIL.



ENLARGED MECHANICAL PLAN - HVAC DUCTWORK PLATFORM B
SCALE: 1/2"=1'-0" NORTH



ENLARGED MECHANICAL PLAN - HYDRONIC PIPING PLATFORM B
SCALE: 1/2"=1'-0" NORTH

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY: TT

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PROJECT MANAGER: SF

DRAWING No. of TOTAL

M3.3

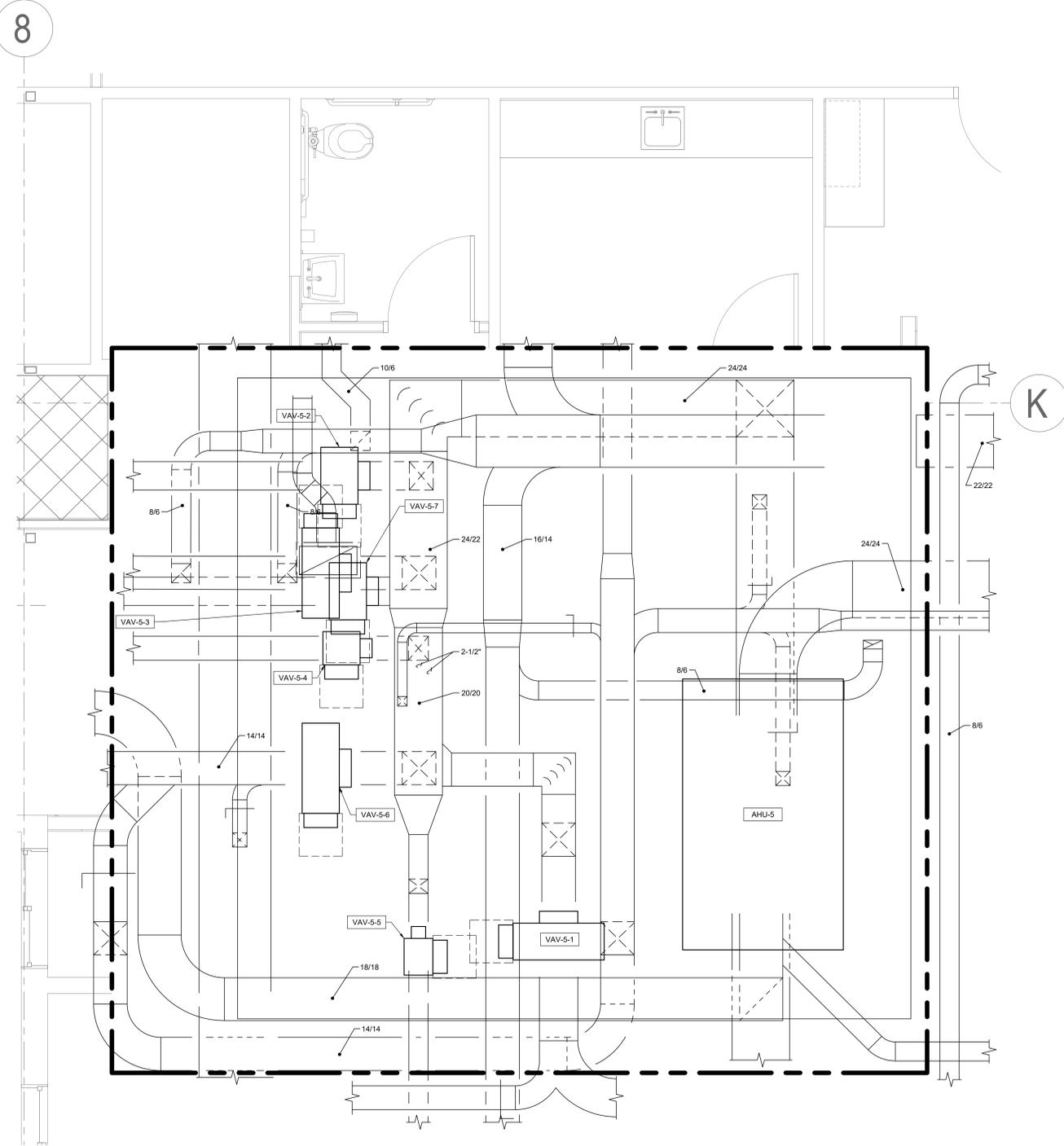
DATE: 02-17-2025
SUBMITTAL: SCHEMATIC DESIGN
PROJECT No. 51525050

GENERAL NOTES

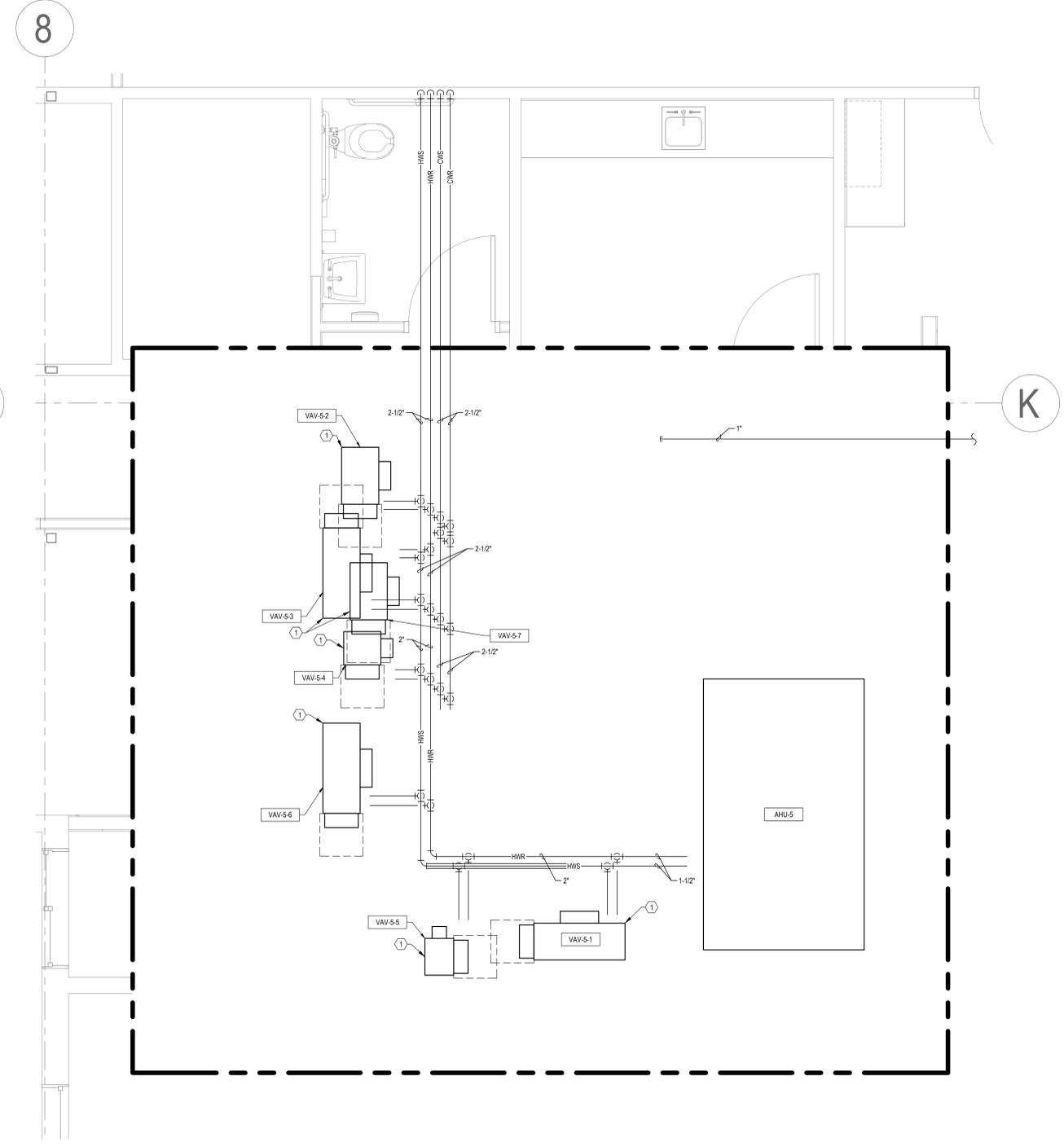
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NOTES

- ① CONNECT HEATING WATER SUPPLY AND RETURN PIPING TO NEW VAV REHEAT COIL.



ENLARGED MECHANICAL PLAN - HVAC DUCTWORK PLATFORM C
SCALE: 1/2"=1'-0" NORTH



ENLARGED MECHANICAL PLAN - HYDRONIC PIPING PLATFORM C
SCALE: 1/2"=1'-0" NORTH

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ENLARGED MECHANICAL PLANS -
PLATFORM C

REVISIONS		
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MECHANICAL CONTRACTORS



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MECHANICAL SCHEDULES

PROPANE-FIRED BOILER SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	INPUT (MBH)	OUTPUT (MBH)	FUEL		AHRI EFFICIENCY (%)	TURNDOWN RATIO	WATER PD (FT)	WATER FLOW @ 30F TEMP RISE (GPM)	ELECTRICAL			STARTER FURNISHED BY	DISCONNECT FURNISHED BY	WEIGHT (LBS)	REMARKS
						TYPE	PRESSURE (WC) (IN.)					FLA	VOLTS	PH				
B-1	FULTON	ENDURA XE-1500	MECHANICAL / ELECTRICAL 907	1,500	1,377	PROPANE	14	97.6	15 TO 1				460	3	MFR	MFR	1,325	1,2,3
B-2	FULTON	ENDURA XE-1500	MECHANICAL / ELECTRICAL 907	1,500	1,377	PROPANE	14	97.6	15 TO 1				460	3	MFR	MFR	1,325	1,2,3

NOTES FOR BOILER SCHEDULE

1. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.
2. PROVIDE WITH MANUFACTURER'S BOILER CONTROLLER WITH SUPPLY WATER TEMPERATURE RESET.
3. BOILER B-1 TO BE PROVIDED WITH EMERGENCY POWER.
4. FLUID TYPE IS 30% PG.

AIR COOLED CHILLER SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	PERFORMANCE						ACOUSTICAL DATA		ELECTRICAL				STARTER FURNISHED BY	DISCONNECT FURNISHED BY	WEIGHT (LBS)	REMARKS	
						TONS	GPM	EWT	LWT	PD (FT H2O)	FULL LOAD EER	IPLV	SOUND POWER (dBA)	SOUND PRESSURE (dBA)	MCA	MOP	VOLTS					PH
CH-1	YORK	YLA0125HJ46XFB	SERVICE YARD	CHILLED WATER	SCROLL	123.0	306	55	45	27.2	12.33		97		257	300	460	3	MFR	EC	6200	1,2,3

NOTES FOR AIR COOLED CHILLER SCHEDULE

1. EER AND IPLV LISTED ARE AT AHRI CONDITIONS.
2. PERFORMANCE IS BASED ON A 30% PROPYLENE GLYCOL SOLUTION.
3. ACOUSTICAL DATA LISTED ARE A-WEIGHTED LEVELS, AND SOUND PRESSURE IS AT 30 FT IN A FREE FIELD.
4. REFRIGERANT TYPE IS R454B.
5. PERFORMANCE DATA RATED AT 85F AMBIENT AIR TEMPERATURE.

HYDRONIC PUMP SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	SERVICE	MOTOR		HEAD (FT)	FLOW (GPM)	WEIGHT (LBS)	ELECTRICAL		STARTER/VFD FURNISHED BY	DISCONNECT FURNISHED BY	REMARKS
					HP	RPM				VOLTS	PH			
SCP-1	ARMSTRONG		MECHANICAL / ELECTRICAL 907	BUILDING HEATING WATER LOOP						460	3	VFD - MFR	EC	
SCP-2	ARMSTRONG		MECHANICAL / ELECTRICAL 907	BUILDING HEATING WATER LOOP						460	3	VFD - MFR	EC	
SCP-3	ARMSTRONG		MECHANICAL / ELECTRICAL 907	BUILDING CHILLED WATER LOOP						460	3	VFD - MFR	EC	
SCP-4	ARMSTRONG		MECHANICAL / ELECTRICAL 907	BUILDING CHILLED WATER LOOP						460	3	VFD - MFR	EC	
BCP-1	ARMSTRONG		MECHANICAL / ELECTRICAL 907	BOILER B-1 CIRCULATION PUMP						460	3	MFR	EC	
BCP-2	ARMSTRONG		MECHANICAL / ELECTRICAL 907	BOILER B-2 CIRCULATION PUMP						460	3	MFR	EC	

NOTES FOR HYDRONIC PUMP SCHEDULE

1. EC TO PROVIDE DISCONNECT, MC TO PROVIDE VFD, EC TO INSTALL
2. FLUID IS 30% PROPYLENE GLYCOL SOLUTION

HYDRONIC EXPANSION TANK SCHEDULE

UNIT NO	MANUFACTURER	MODEL	SYSTEM	LOCATION	VOLUME		CONNECTION SIZE (IN)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	REMARKS
					TANK (GAL)	ACCEPTANCE (GAL)					
ET-1	ARMSTRONG		HEATING WATER LOOP	MECHANICAL / ELECTRICAL 907							1
ET-2	ARMSTRONG		CHILLED WATER LOOP	MECHANICAL / ELECTRICAL 907							1

NOTES FOR HYDRONIC EXPANSION TANK SCHEDULE

1. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS

AIR SEPARATOR SCHEDULE

UNIT NO	MANUFACTURER	MODEL	SYSTEM	LOCATION	FLOW		CONNECTION SIZE (IN)	VOLUME (GAL)	WATER PD @ ACTUAL FLOW (FT H2O)	WEIGHT (LBS)	REMARKS
					MAX (GPM)	ACTUAL (GPM)					
AS-1	ARMSTRONG		HEATING WATER LOOP	MECHANICAL / ELECTRICAL 907							1,2,3
AS-2	ARMSTRONG		CHILLED WATER LOOP	MECHANICAL / ELECTRICAL 907							

NOTES FOR AIR/DIRT ELIMINATOR SCHEDULE

1. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS
2. PROVIDE WITH AUTOMATIC AIR VENT VALVE
3. PROVIDE WITH FLANGED REMOVABLE HEAD

REVISIONS		
NO.	DESCRIPTION	DATE
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PROJECT MANAGER: SF

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DATE: 02-17-2020
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