



LEAHI HOSPITAL
HAWAII HEALTH SYSTEMS CORPORATION

3675 Kilauea Avenue ■ Honolulu, Hawaii 96816 ■ Telephone: (808) 733-8000

April 15, 2026

TO: Interested Bidders

FROM: Michael Nakada
HHSC Oahu Region

SUBJECT: Addendum No. 2
IFB No. 26L-0311 Leahi Hospital Sinclair Building Heat Pump Sound Attenuation

Addendum No. 2 provides changes to the subject solicitation.

1. Question: Please clarify the licensing required to bid this project? Does the hospital require an A or B general contractor license is required in order to bid this project? I have reviewed the specs, but nowhere does it indicate that is the case? It would appear to indicate that any contractor that has the correct specialty licensing to do the work is allowed to bid?

Response: The Contractor shall conform with spec SECTION 00210 1.01.B which requires the Contractor to be "organized under the laws of the State." HRS 444-7(c). A "B" General Building Contractor License is required when the scope of the project includes in its construction the use of more than two unrelated building trades or crafts.

2. Please see attached.

End of Addendum No. 2

ADDENDUM NO. 2

TO CONSTRUCT

**LEAHI SINCLAIR BUILDING HEAT PUMP, BASEMENT FLOOR
TAX MAP KEY: 3-2-031:001
3675 KILAUEA AVE
HONOLULU, OAHU, HAWAI'I, 96816**

DATE: April 15, 2026

This addendum modifies the original Solicitation Documents for the Project issued on February 27, 2026 and any previously issued addenda. The items in this addendum shall govern the work, taking precedence over previously issued specifications and drawings governing the items mentioned.

A. RFI RESPONSES:

1. Has a Hazmat survey been done for this project? If yes, can you please provide. If no, is the contractor responsible to include a hazmat survey in his bid?

Previous HAZMAT survey has been conducted for this building, but the report is not available at this time. Due to scope being limited to mostly mechanical and electrical work, we do not anticipate the need for HAZMAT abatement. Contractor is not required to include a HAZMAT survey for this bid.

2. Is 1-year maintenance required for this project? If yes, please provide a maintenance schedule

A maintenance schedule was added to M-001 in the mechanical drawings, which can be found in Addendum 2.

B. REVISED DRAWINGS:

1. Sheet M-001:
 - Updated overall formatting to make room for the additional notes added to the drawing:
 - Added subsections to section 2.1 Materials in “Mechanical Technical Specifications” to include “Domestic Water Piping”, “Insulation” and “Miscellaneous Materials”.
 - Added new sections of notes for “Mechanical Installation Notes” and “Schedule of Maintenance Service”.
2. Sheet M-101:
 - Updated note 3 in the “Sheet Keynotes” to say “PROVIDE NEW HEAT PUMP AND ASSOCIATED PIPING WIRING AND CONTROLS. EXPAND THE EXISTING HOUSEKEEPING PAD AS NECESSARY. RECONNECT TO

EXISTING HOT WATER PIPING, HOT WATER RETURN PIPING,
CONDENSATE PIPING, PIPE INSULATION, WIRING AND CONTROLS.”

MECHANICAL LEGEND		
SYMBOL	ABBRV.	DESCRIPTION
	CFM	CUBIC FEET PER MINUTE
	DBA	DECIBEL
	(E)	EXISTING
	E.S.P.	EXTERNAL STATIC PRESSURE
	FT	FEET
	HZ	HERTZ (CYCLES PER SECOND)
	IN	INCHES
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
	SHT	SHEET
	TYP	TYPICAL

GENERAL NOTES:

- EXAMINE THE PROJECT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION, RECONNECTION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH ENGINEER FOR ANY MAJOR DEVIATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE SUBCONTRACTOR HAS VISITED THE SITE AND HAS RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK MADE NECESSARY BY THE SUBCONTRACTOR'S FAILURE TO DO SO.
- THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU, STATE DEPARTMENT OF HEALTH REGULATIONS, 2018 UNIFORM PLUMBING CODE, UNIFORM FIRE CODE, NATIONAL FIRE PROTECTION AGENCY 12021, NATIONAL ELECTRICAL CODE, ASME PRESSURE PIPING CODE, HAWAII STATE MODEL ENERGY CODE, AND ALL OTHER AGENCIES HAVING JURISDICTION.
- THE DRAWING AND SPECIFICATION ARE INTENDED TO COVER THE COMPLETED INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL FOR COMPLETE AND SATISFACTORY OPERATING SYSTEMS.
- ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE CONTRACTING OFFICER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
- PROVIDE SHOP DRAWING FOR THE LAYOUT OF EQUIPMENT, PIPING, AND DUCTWORK SHOWING COORDINATION OF ALL WORK WITH ALL OTHER TRADES, INCLUDING PLUMBING, FIRE SPRINKLER, FIRE ALARM, CONTROLS, ELECTRICAL, AND COMMUNICATION SYSTEMS. COORDINATION DRAWING SHALL OVERLAY HVAC, PLUMBING, FIRE SPRINKLER, ELECTRICAL, AND FIRE ALARM SYSTEMS, AND ALL CONFLICTS BETWEEN TRADES SHALL BE NOTED AND RESOLVED.
- VERIFY AND COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS PRIOR TO THE START OF CONSTRUCTION.
- OBTAIN APPROVAL FROM THE ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS, AND SLABS.
- DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUN PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH AS CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER FOR REVIEW. DO NOT PROCEED UNTIL REVIEWED.
- PROPERLY FIRESTOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR PARTITIONS WITH A UL APPROVED SYSTEM APPROPRIATE FOR PENETRATION TYPE AND FIRE RATING. FIRESTOP ALL PENETRATIONS BETWEEN FLOORS.
- SEISMICALLY BRACE ALL EQUIPMENT, PIPING, AND DUCTWORK IN ACCORDANCE WITH THE CURRENT CITY AND COUNTY OF HONOLULU BUILDING CODE FOR THE SEISMIC ZONE 2A.
- ROUTE ALL CONTROL AND MOTOR STARTER WIRING IN CONDUIT. ANY CONDUIT SHALL BE APPROVED PRIOR TO INSTALLATION.
- CONTRACTOR SHALL RESTORE ALL EXISTING CONSTRUCTION IMPACTED BY NEW WORK TO ITS ORIGINAL CONDITION OR BETTER. PAINT ALL NEW WORK AND ALL AREAS AFFECTED BY THE CONTRACTOR'S WORK TO MATCH ADJACENT SURFACES.
- CONTRACTOR SHALL COORDINATE WITH LEAHI TO MINIMIZE DURATION OF HOT WATER OUTAGES.

MECHANICAL TECHNICAL SPECIFICATIONS

MECHANICAL AIR CONDITIONING AND VENTILATION PART 2 - PRODUCTS

2.1 MATERIALS

ALL MATERIALS DELIVERED TO THE JOB SITE AND INSTALLED SHALL BE NEW, BEST OF THEIR RESPECTIVE GRADES AND AS SPECIFIED ON THE DRAWINGS. MATERIALS SHALL BE OF THE SAME BRAND OR MANUFACTURER THROUGHOUT FOR EACH CLASS OF MATERIAL OR EQUIPMENT.

A. DOMESTIC WATER PIPING:

- COPPER TUBING, ASTM B88, WITH ANSI B16.18 OR B16.22 SOLDER JOINT FITTINGS.
- EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROMIUM PLATED BRASS PIPE TO THE SHUT OFF OR STOP VALVE OF EACH FIXTURE.

B. INSULATION: PROVIDE PRE-MOLDED FIBERGLASS PIPE INSULATION, WITH VAPOR BARRIER TO MATCH EXISTING. PROVIDE NESTED INSULATION SEGMENTS ON FITTINGS, VALVES, AND FLANGES. SEAL ENDS WITH VAPOR BARRIER MASTIC.

C. MISCELLANEOUS MATERIALS:

- NIPPLES: NIPPLES SHALL BE THE SAME MATERIAL AS THE PIPING IN WHICH INSTALLED.
- UNIONS: UNIONS SHALL BE BRASS OR BRONZE, EITHER THREADED OR WITH SOLDER JOINT ENDS, FOR USE IN COPPER TUBING.
- WALL AND CEILING ESCUTCHEON PLATES: PROVIDE SPLIT HINGED, LOCKED TYPE, OR ONE-PIECE ESCUTCHEON PLATES OF PRESSED STEEL WITH HEAVY COATING OF COPPER, NICKEL OR CHROMIUM.
- SOLDER: 95-5 TIN ANTIMONY OR 10% SILVER SOLDER.
- SUPPORTS: MSS SP-58 AND SP-69, FOR PIPING. PROVIDE TURNBUCKLES TYPE 13 AND 15 WHERE REQUIRED FOR VERTICAL ADJUSTMENT. MAXIMUM SPACING SHALL BE AS SPECIFIED IN SP-69.
- PIPING ISOLATORS: STANDARD COMMERCIAL PRODUCTS, CONSISTING OF METAL-CLAD HAIR FELT MANUFACTURED SPECIFICALLY FOR ISOLATING PIPE FROM HANGERS.
- DIELECTRIC FITTINGS: DIELECTRIC UNION WITH GALVANIZED OR PLATED STEEL FEMALE PIPE THREADED END AND COPPER SOLDER-JOINT END. UNION SHALL HAVE A WATER-IMPERVIOUS INSULATION BARRIER CAPABLE OF LIMITING GALVANIC CURRENT TO ONE PERCENT OF THE SHORT-CIRCUIT CURRENT IN A CORRESPONDING BIMETALLIC JOINT AND, WHEN DRY, SHALL ALSO BE ABLE TO WITHSTAND A 600-VOLT BREAKDOWN TEST.

2.2 DUCTWORK AND ACCESSORIES

SHEET METAL DUCTWORK: GALVANIZED STEEL SHEETS, ASTM A527. CONSTRUCTION, GAGES, AND REINFORCEMENT SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 1985 EDITION.

FITTINGS: VANED ELBOWS, TAKE-OFFS, BRANCH CONNECTIONS, TRANSITIONS, VOLUME DAMPERS, AND FLEXIBLE CONNECTIONS SHALL COMPLY WITH SMACNA STANDARDS. PROVIDE RADIUS TYPE ELBOWS WITH A CENTERLINE RADIUS OF 1.5 TIMES THE WIDTH OR DIAMETER OF THE DUCT WHERE SPACE PERMITS. OTHERWISE, ELBOWS HAVING A MINIMUM RADIUS EQUAL TO THE WIDTH OR DIAMETER OF THE DUCT OR SQUARE ELBOWS WITH FACTORY FABRICATED TURNING VANES ARE ALLOWED.

TURNING VANES: CURVED BLADES OF GALVANIZED SHEET STEEL, SUPPORT WITH BARS PERPENDICULAR TO BLADES SET; SET INTO VANE RUNNERS SUITABLE FOR DUCT MOUNTING. COMPLY WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS. VANES SHALL BE SINGLE WALL FOR DUCTS UP TO 48 INCHES WIDE AND DOUBLE WALL FOR LARGER DIMENSIONS.

SEALANTS: PROVIDE SEALANTS AND GASKETS THAT HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723. DO NOT USE PRESSURE SENSITIVE TAPE AS A SEALANT.

2.3 SUPPORTS

GALVANIZED STEEL STRAPS OR HANGER RODS IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

2.4 GRILLES

FRAME: ALUMINUM OR GALVANIZED STEEL.

BLADES: ALUMINUM OR STEEL, FIXED OR ADJUSTABLE.

FINISH: MANUFACTURER'S STANDARD BAKED ENAMEL, POWDER COAT, OR AS SCHEDULED.

2.6: AIR-SOURCE HEAT PUMP: THE HEAT PUMP WATER HEATER SHALL BE PACKAGED AIR SOURCE EQUIPMENT, FACTORY ASSEMBLED AND CHARGED. THE HEAT PUMP SHALL BE SUITABLE FOR HEATING POTABLE WATER AND HAVE THE CAPABILITY OF PRODUCING NO LESS THAN 160F WATER, WITH HEATING CAPACITY AND C.O.P. AS INDICATED ON THE DRAWINGS.

- HEAT PUMP UNIT: HEAT PUMP UNIT SHALL CONSIST OF COMPRESSORS, CONDENSER, EVAPORATOR, HOT WATER CIRCULATING PUMP, PIPING, AND CONTROLS, FACTORY PIPED AND CHARGED. THE HEAT PUMP SHALL CONTAIN THE FOLLOWING COMPONENTS, AND FEATURES:
 - EVAPORATOR: SHALL BE CONSTRUCTED WITH ALUMINUM WAFFLE PLATE FINS MECHANICALLY BONDED TO SEAMLESS COPPER TUBING. ALL COPPER TUBE JOINTS TO BE BRAZED WITH SILVER SOLDER. COILS SHALL HAVE CORROSION INHIBITING COATED FINS AND TYPE 304 STAINLESS STEEL COIL CASINGS AND DRAIN PAN.
 - REFRIGERANT: REFRIGERANT SHALL BE R-513A.
 - EXPANSION VALVE: VALVES SHALL BE SPECIFICALLY DESIGNED FOR HEAT PUMP USE WITH FIELD ADJUSTABLE SUPERHEAT FEATURE. EXPANSION VALVE SHALL HAVE MOP (MAXIMUM OPERATING PRESSURE) TYPE POWER ELEMENT TO EFFECTIVELY LIMIT SATURATED SUCTION TEMPERATURE TO 18C (65F).
 - COMPRESSOR: HERMETIC SCROLL TYPE BY COPELAND CORP., SUITABLE FOR HIGH TEMPERATURE OPERATION WITH R513A REFRIGERANT.
 - COMPRESSOR CONTROLS: COMPRESSOR CONTROLS/ACCESSORIES MUST INCLUDE THE FOLLOWING:
 - HIGH AND LOW REFRIGERANT PRESSURE SAFETY SWITCHES
 - INDICATOR LIGHTS FOR POWER ON, HOT WATER DEMAND, HIGH PRESSURE FAIL, LOW PRESSURE FAIL
 - MULTI-FUNCTION PHASE FAILURE RELAY
 - CRANKCASE HEATER AND RELAY

f. CONDENSER: STAINLESS STEEL BRAZED PLATE VENTED DOUBLE WALL TYPE. SINGLE WALL CONDENSER CONSTRUCTION SHALL NOT BE ALLOWED. UL LISTED AND SUITABLE FOR HIGH TEMPERATURE OPERATION WITH POTABLE WATER.

g. REFRIGERANT ACCESSORIES:

- FILTER-DRIERS: NON-REPLACEABLE CORE TYPE
- SIGHT GLASS: MOISTURE INDICATING TYPE

h. ANTI-SHORT CYCLE CONTROL: UNITS SHALL BE FACTORY WIRED TO ALLOW A MAXIMUM OF TWELVE COMPRESSOR STARTS PER HOUR TO PREVENT COMPRESSOR SHORT CYCLING AND ALLOW TIME FOR SUCTION AND DISCHARGE PRESSURES TO EQUALIZE PERMITTING THE COMPRESSOR TO START IN AN UNLOADED CONDITION.

i. HOT WATER CIRCULATING PUMPS: SHALL BE FACTORY INSTALLED IN-LINE ALL BRONZE OR STAINLESS STEEL BODY CENTRIFUGAL TYPE ABLE TO DELIVER RATED FLOW AGAINST THE EXTERNAL HEAD SHOWN ON THE DRAWINGS.

j. CONTROLS: THE HEAT PUMP UNIT SHALL BE FACTORY WIRED FOR FULLY AUTOMATIC OPERATION. SAFETIES SHALL INCLUDE COMPRESSOR MOTOR THERMAL OVERLOAD PROTECTION, MANUAL RESET PRESSURE STATS, ANTI-CYCLING COMPRESSOR RELAYS, PLUS STANDARD ITEMS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

k. CONSTANT LEAVING WATER TEMPERATURE CONTROL: THE HEAT PUMP UNIT SHALL BE FACTORY EQUIPPED WITH ELECTRONIC TEMPERATURE CONTROL VALVE (E-TCV) WHICH AUTOMATICALLY MAINTAINS CONSTANT LEAVING WATER TEMPERATURE REGARDLESS OF ENTERING WATER TEMPERATURE. LEAVING WATER TEMPERATURE IS SET BY THE HEAT PUMP OPERATOR/USER VIA A FIELD ADJUSTABLE ELECTRONIC TEMPERATURE CONTROLLER.

MECHANICAL INSTALLATION NOTES:

- THE CONTRACTOR SHALL PLUMB THE WATER PIPING AS INDICATED IN THE APPROPRIATE DIAGRAMS IN ACCORDANCE WITH LOCAL AND NATIONAL CODES THAT APPLY.
- INSULATION: ALL HOT WATER PIPING SHOULD BE INSULATED WITH FIBERGLASS AND PAPER SHEATHING.
- EXISTING HOT WATER STORAGE TANKS SHOULD HAVE ACCUMULATED SCALE DEPOSITS REMOVED PRIOR TO STARTING THE HEAT PUMP SYSTEM. USING EXISTING TANKS WITHOUT PROPER CLEANING CAN RESULT IN FOULING OF THE INTERNAL HEAT PUMP WATER PIPING AND MAY CAUSE DAMAGE TO THE WATER CIRCULATING PUMP.
- SET THE DIFFERENTIAL TEMPERATURE LARGE ENOUGH SO THAT THE HEAT PUMP RUNS FOR AT LEAST 10 MINUTES ONCE IT STARTS TO ALLOW PROPER OIL CIRCULATION AND EXPANSION VALVE MODULATION.
- ENSURE THAT THE WATER SYSTEM VALVE LINE-UP TO ENSURE THAT THE HEAT PUMP IS NOT ISOLATED FROM THE SYSTEM AND THAT THERE IS MAKE-UP WATER AVAILABLE.
- AT STARTUP, CHECK COMPRESSORS FOR PROPER ROTATION. ON STARTUP, THE DISCHARGE PRESSURE WILL RISE AND THE SUCTION PRESSURE FALL AS INDICATED BY THE INSTALLED SERVICE GAUGES.

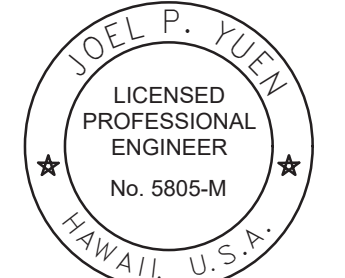
SCHEDULE OF MAINTENANCE SERVICE:

ALL SERVICE PERFORMED BY THE CONTRACTOR SHALL INCLUDE APPLICABLE ITEMS LISTED BUT SHALL NOT BE LIMITED TO THE FOLLOWING MAINTENANCE TASK:

- AIR-SOURCE HEAT PUMP:
 - MONTHLY SERVICE:
 - CLEAN AND CLEAR ALL DRIP PANS AND FLUSH ALL RELATED CONDENSATE DRAIN LINES WITH NITROGEN. INSTALL PAN TABLETS IF NECESSARY TO CONTROL ALGAE GROWTH. (NOTE: CONTRACTOR MAY BE LIABLE FOR WATER DAMAGE DUE TO CLOGGED DRAINS.)
 - WASH PERMANENT TYPE FILTERS WITH AN APPROVED DETERGENT AND SPRAY COAT WITH AN APPROVED FILTER TREATMENT SOLUTION. REPLACE DETERIORATED PERMANENT TYPE FILTERS WHICH CANNOT BE CLEANED.
 - LUBRICATE AND OIL ALL FAN AND MOTOR BEARINGS AND CONNECTIONS OF DAMPERS AND VANES.
 - CHECK ALL DRIVES FOR WEAR; ADJUST BELT TENSION. REPLACE BELT AS REQUIRED.
 - OPERATE EQUIPMENT TO CHECK FOR PROPER OPERATION, UNUSUAL NOISE AND VIBRATION; ADJUST OR REPAIR ALL EQUIPMENT AND CONTROLS AS REQUIRED; CLEAN-UP ALL EQUIPMENT.
 - CERTIFY PERFORMANCE OF MONTHLY SERVICES AND THAT ALL DISCREPANCIES ARE REPORTED AND CORRECTED.
 - CHECK COMPRESSOR OIL LEVEL AND REFRIGERANT SIGHT GLASS; ADD OIL AS NEEDED AND CHANGE FILTER/DRIER IF MOISTURE INDICATED.
 - CHECK REFRIGERANT SYSTEM FOR LEAKS, UNUSUAL NOISE AND VIBRATION AND RECORD SUCTION, DISCHARGE AND OIL PRESSURES AND MAINTENANCE LOG BOOK AND CORRECT AND REPORT ALL DEFICIENCIES.
 - ANY ADDITIONAL MAINTENANCE ITEMS RECOMMENDED BY THE MANUFACTURER.
 - ANNUAL SERVICE:
 - ADJUST ALIGNMENT OF BEARINGS AND SHEAVES; LUBRICATE FAN AND MOTOR BEARINGS. REPLACE WORN OR NOISY BEARINGS OR SHEAVES.
 - CLEAN HEATING COILS OF DIRT ACCUMULATION USING NITROGEN, HIGH PRESSURE AIR/WATER, STEAM OR CHEMICAL COIL CLEANER SOLUTION.
 - CHECK PRESSURE AND TEMPERATURE DIFFERENTIAL ACROSS COOLING COILS AND LOG READINGS.
 - CLEAN AND ADJUST WATER VALVE; CLEAN STRAINER (CHILLED WATER) AND CLEAN ALL FAN WHEELS AND INTERIOR AND EXTERIOR OF EQUIPMENT HOUSINGS.
 - SECURE ALL LOOSE HOUSING, SEAL LEAKS AND TOUCH-UP PAINT AFTER CLEANING ALL RUST.
 - CHECK AND CALIBRATE ALL PNEUMATIC AND/OR ELECTRIC TEMPERATURE CONTROLS.
 - CERTIFY PERFORMANCE OF ANNUAL SERVICE AND THAT ALL DISCREPANCIES ARE REPORTED AND CORRECTED.
 - CHECK COMPRESSOR COUPLING ALIGNMENT; LUBRICATE OR REPLACE NOISY BEARINGS.
 - TEST COMPRESSOR CRANKCASE OIL AND REPLACE IF CONTAMINATED OR SUBMIT OIL TEST RESULTS. CLEAN OR REPLACE STRAINER AND OIL FILTER (OPEN COMPRESSOR).
 - TEST AND CHECK SYSTEM RESPONSE AT VARIOUS COOLING LOAD CONDITIONS FOR PROPER OPERATION, RECORD SETTINGS, ADJUST AS REQUIRED. RECALIBRATE ALL SAFETIES, CAPACITY, AND TEMPERATURE CONTROLS TO PROPER SETTINGS.
 - CHECK AND CLEAN ALL UNIT HOUSING (INSIDE AND OUTSIDE AND COMPONENTS), SEAL LEAKS AND REMOVE RUST FROM EXTERIOR COMPONENTS AND TOUCH-UP PAINT.
 - MEGGER (ELECTRICAL TEST TO MEASURE WIRE INSULATION RESISTANCE, I.E. CONDITION) COMPRESSOR MOTOR AND SUBMIT REPORT AND RECOMMENDATION; CHECK STARTER, RELAYS, AND CONTROL CONTACTS AND ELECTRICAL CONNECTIONS FOR TIGHTNESS AND CLEAN AS REQUIRED.
 - ANY ADDITIONAL MAINTENANCE ITEMS RECOMMENDED BY THE MANUFACTURER.

CITY AND COUNTY OF HONOLULU
REVISED ORDINANCES OF HONOLULU 2021
CHAPTER 16B

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY CONSERVATION CODE FOR:


X MECHANICAL COMPONENT SYSTEMS

SIGNATURE: Joel P. Yuen DATE: 03/20/2026
NAME: JOEL P. YUEN
TITLE: MECHANICAL ENGINEER
LICENSE No.: 5805-M

REVISIONS	BY
1 ADD 1 03/26/2026	JY
2 ADD 2 04/15/2026	JY

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Joel P. Yuen
EXPIRATION DATE: 03/30/2028

JOEL P. YUEN
LICENSED PROFESSIONAL ENGINEER
No. 5805-M
HAWAII

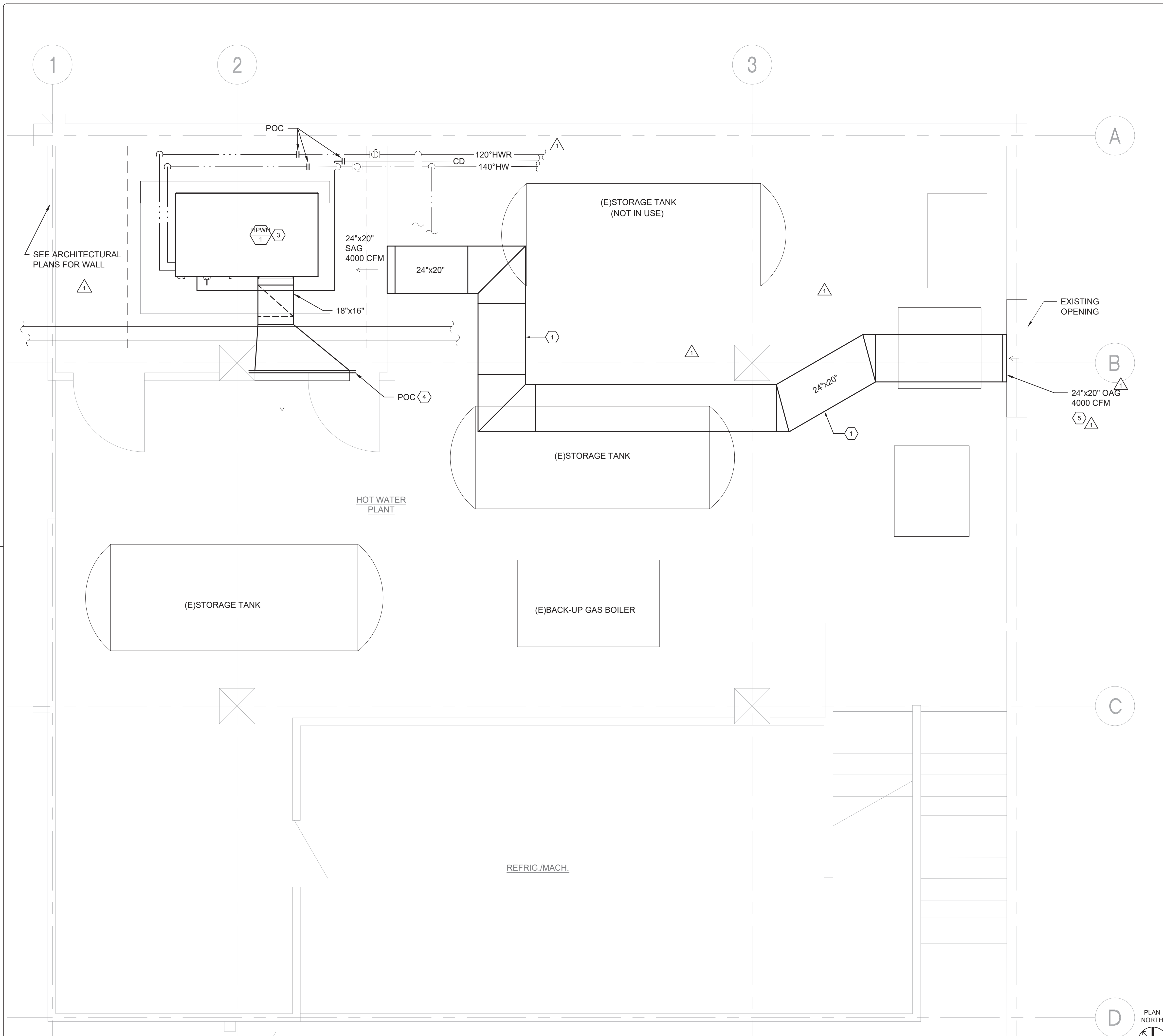
INSYNERGY ENGINEERING

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**LEAHI HOSPITAL SINCLAIR BUILDING
HEAT PUMP SOUND ATTENUATION**
3675 KILAUEA AVE HONOLULU, HAWAII 96816

MECHANICAL GENERAL NOTES, LEGEND AND SPECIFICATIONS

Designed	KT
Drawn	RB
Checked	JY
Date	03-20-2026
Job No.	25-165
Sheet	



SHEET KEYNOTES

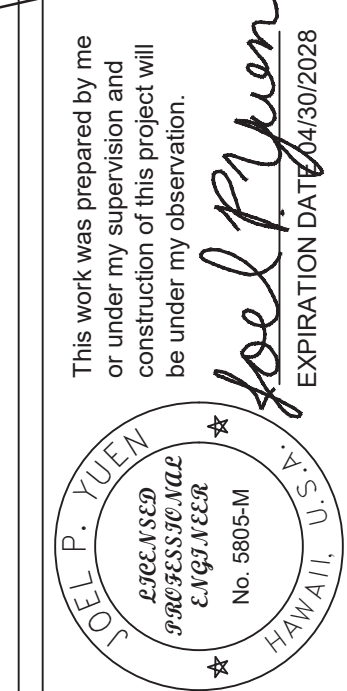
- 1 PROVIDE NEW DUCTWORK AND ASSOCIATED APPURTENANCES.
- 2
- 3 PROVIDE NEW HEAT PUMP AND ASSOCIATED PIPING WIRING AND CONTROLS. EXPAND THE EXISTING HOUSEKEEPING PAD AS NECESSARY. RECONNECT TO EXISTING HOT WATER PIPING, HOT WATER RETURN PIPING, CONDENSATE PIPING, PIPE INSULATION, WIRING AND CONTROLS.
- 4 RECONNECT TO EXISTING EVAPORATOR DISCHARGE DUCTWORK MODIFY AS NECESSARY
- 5 CENTER DUCT TO EXISTING OPENING.

REVISIONS	BY
1 ADD 1	JY
2 ADD 2	JY

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Joel P. Yuen

EXPIRATION DATE: 03/30/2028



INSYNERGY ENGINEERING

MECHANICAL • ELECTRICAL • FIRE PROTECTION

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**LEAHI HOSPITAL SINCLAIR BUILDING
HEAT PUMP SOUND ATTENUATION**

3675 KILAUEA AVE HONOLULU, HAWAII 96816

T/M/K

PARTIAL BASEMENT MECHANICAL PLAN

Designed	KT
Drawn	RB
Checked	JY
Date	03-20-2026
Job No.	25-165
Sheet	M-101
Of 9 Sheets	15

KEY PLAN

