

**1** ROOF PLAN - DEMOLITION  
SCALE: 3/32" = 1'-0"

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING ROOF MOUNTED CONDENSING UNIT INCLUDING SUPPORTS, ACCESSORIES, AND CONTROLS. DISCONNECT ELECTRIC INCLUDING DISCONNECT SWITCH AND REMOVE CONDUCTORS BACK TO SOURCE PANEL.
2. DISCONNECT AND REMOVE EXISTING REFRIGERANT PIPING, INCLUDING HANGERS AND SUPPORTS.
3. DISCONNECT AND REMOVE EXISTING CONDENSATE DRAIN INCLUDING SUPPORTS.
4. REMOVE EXISTING LOUVER. REMOVE EXTERIOR WALL BELOW LOUVER TO ABOVE EXISTING ROOF AND FLASHING TO PROVIDE ACCESS FOR EXISTING AIR HANDLING UNIT REMOVAL AND NEW AIR HANDLING UNIT INSTALLATION. EXISTING LOUVER SHALL BE CLEANED AND PROTECTED DURING CONSTRUCTION TO BE REINSTALLED.

Project  
**TOWN OF YORKTOWN  
THEATER AC  
REPLACEMENT**

268 VETERANS RD,  
YORKTOWN HEIGHTS, NY 10598

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6 ROWAN ST #3  
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Sheet Title  
**ROOF PLAN -  
DEMOLITION**

Date  
**06.22.22**

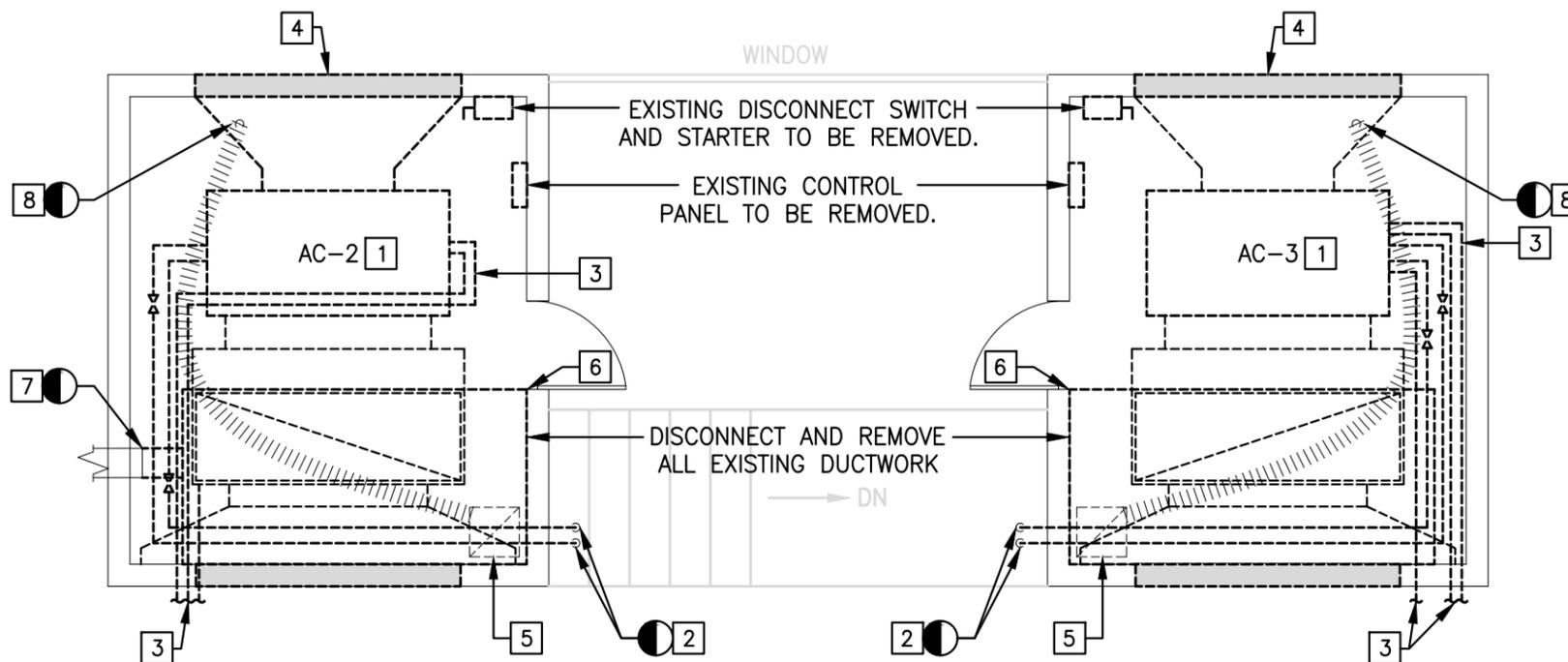
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Sheet No.

**M-1**



**1 MECHANICAL PLAN - DEMOLITION**

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

**DEMOLITION NOTES:**

1. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT INCLUDING DAMPERS, HANGERS, SUPPORTS, AND ACCESSORIES. DISCONNECT AND REMOVE EXISTING ELECTRIC INCLUDING CONDUCTORS BETWEEN AIR HANDLING UNIT AND DISCONNECT SWITCH, INCLUDING EXISTING STARTER.
2. DISCONNECT AND REMOVE EXISTING STEAM AND CONDENSATE PIPING INCLUDING CONTROL VALVES, STEAM TRAPS, ACCESSORIES, AND HANGERS, TO FITTING AT TOP OF STAIRCASE.
3. DISCONNECT AND REMOVE EXISTING REFRIGERANT AND CONDENSATE PIPING INCLUDING HANGERS AND SUPPORTS.
4. DISCONNECT AND REMOVE EXISTING SUPPLY GRILL AND ASSOCIATED DUCTWORK.
5. EXISTING TO REMAIN FLOOR OPENING DOWN TO RETURN GRILL AT THEATER LEVEL.
6. EXISTING RETURN PLENUM TO BE DEMOLISHED, INCLUDING RETURN/ECONOMIZER DAMPER.
7. EXISTING RETURN DUCT THROUGH WALL SHALL BE DISCONNECTED FROM RETURN PLENUM AND PREPARED TO BE RECONNECTED TO NEW PLENUM.
8. EXISTING FLEX DUCT TO REMAIN. DISCONNECT AND PREPARE TO RECONNECT.

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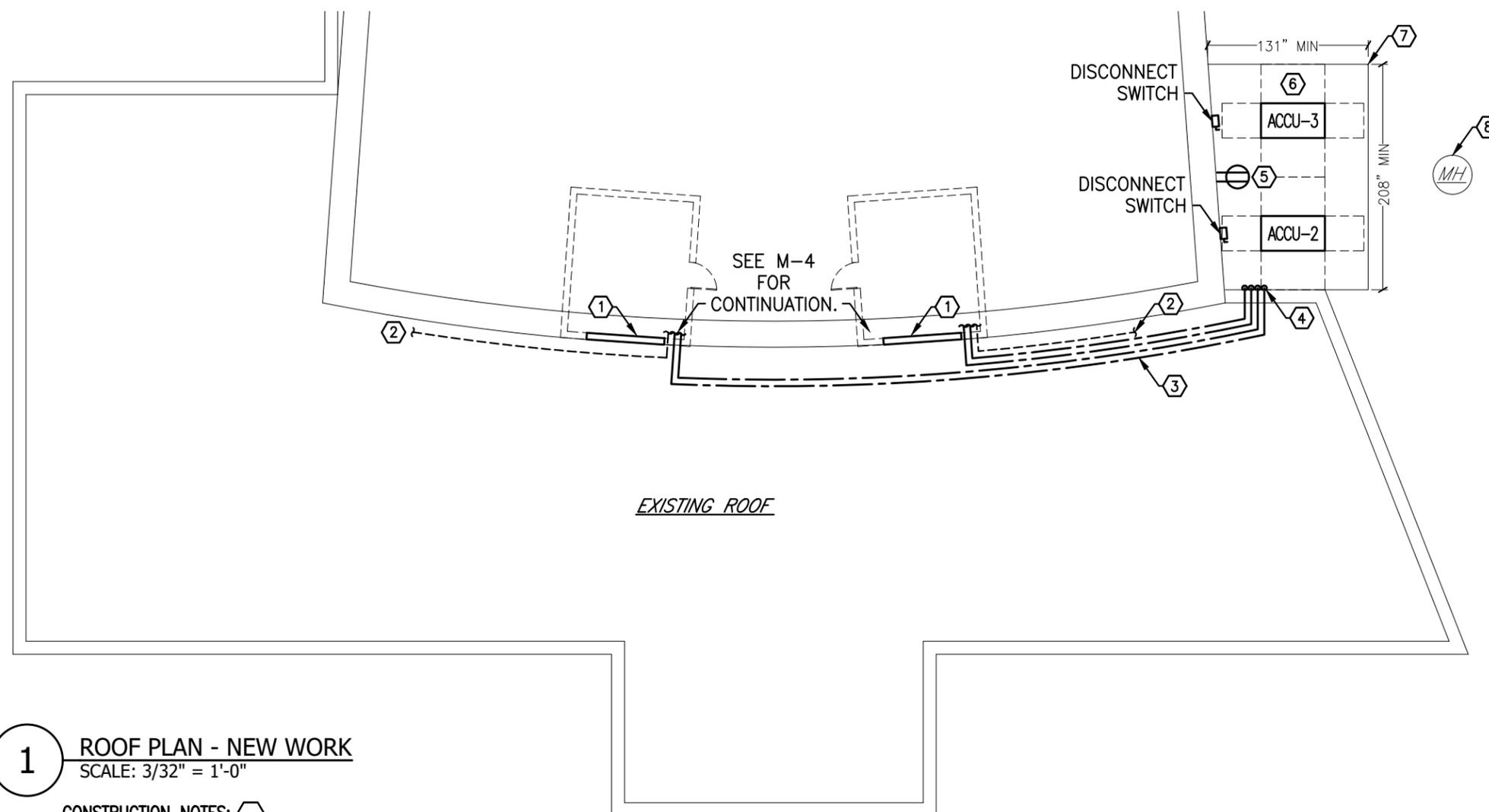
**M-2**

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**1** **ROOF PLAN - NEW WORK**  
 SCALE: 3/32" = 1'-0"

**CONSTRUCTION NOTES:**

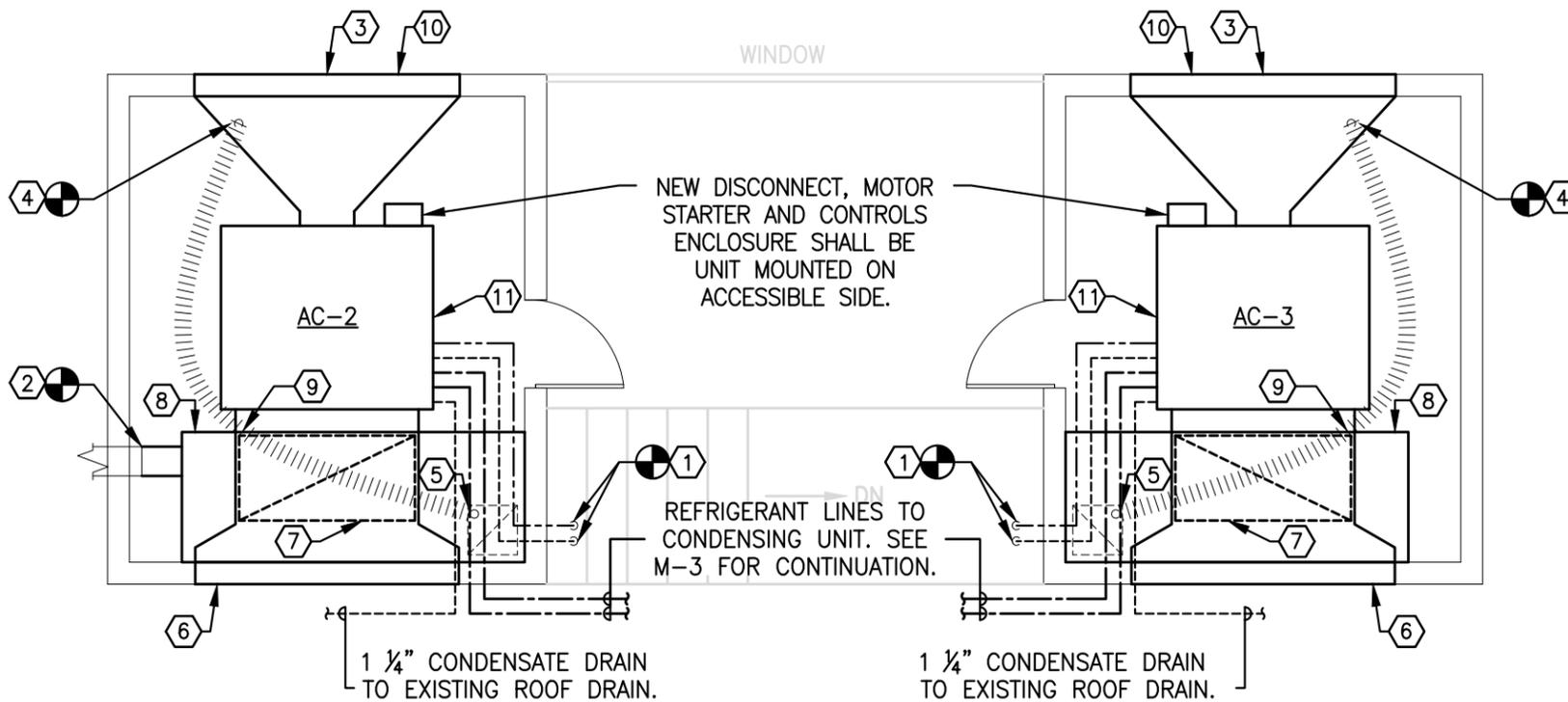
1. REINSTALL EXISTING OUTDOOR AIR LOUVER. REINSTALL EXTERIOR WALL. REUSE EXISTING BRICK OR PROVIDE COLOR SAMPLES TO OWNER FOR REVIEW FOR NEW BRICK.
2. 1-1/4" CONDENSATE DRAIN TO EXISTING ROOF DRAIN.
3. REFRIGERANT LIQUID AND GAS LINES - WALL MOUNTED ALONG EXTERIOR WALL.
4. REFRIGERANT LIQUID AND GAS LINES DOWN TO CONDENSING UNITS ON GRADE.
5. NEW 120V SERVICE GFCI DUPLEX RECEPTACLE, WEATHERPROOF IN USE COVER.
6. 36" CLEARANCE (TYPICAL).
7. NEW 4" CONCRETE PAD.
8. MAINTAIN CLEARANCE AROUND EXISTING MANHOLE.

AIR COOLED CONDENSING UNIT SCHEDULE															
UNIT NO.	SYSTEM	AMBIENT TEMP DB (°F)	REFRIGERANT TYPE	NO OF CIRCUITS	TOTAL HEAT REJECTION (MBH)	CONDENSER FAN		ELECTRICAL			UNIT DIMENSIONS (LxWxH)	UNIT WEIGHT (LBS)	BASIS OF DESIGN		
						QTY	HP EA	V/PH/Hz	MCA	MOPD			MANUFACTURER	MODEL	REMARKS
ACCU-2	AC-2	95	410A	1	112	2	-	230/3/60	46.4	35	59x32x50	430	JOHNSON CONTROLS	J10YCC00A2GAB6	1,2,&3
ACCU-3	AC-3	95	410A	1	112	2	-	230/3/60	46.4	35	59x32x50	430	JOHNSON CONTROLS	J10YCC00A2GAB6	1,2,&3

- REMARKS:
1. PROVIDE WITH INTEGRAL WEATHERPROOF DISCONNECT SWITCH.
  2. PROVIDE UNIT WITH PROTECTIVE SCREEN FOR EACH COIL INLET FACE.
  3. PROVIDE INSULATION ON ENTIRE SUCTION LINE BACK TO EVAPORATOR.

Sheet Title  
**ROOF PLAN - NEW WORK**

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**1 MECHANICAL PLAN - NEW WORK**  
SCALE: 1/4" = 1'-0"

**CONSTRUCTION NOTES:** ⬡

- CONNECT NEW 2-1/2" LOW PRESSURE STEAM TO EXISTING STEAM RISER. CONNECT NEW CONDENSATE TO EXISTING CONDENSATE RISER. VERIFY IN FIELD EXISTING RISER SIZES.
- CONNECT EXISTING RETURN DUCT TO NEW RETURN PLENUM. VERIFY IN FIELD EXACT DUCT DIMENSION.
- REINSTALL EXISTING SUPPLY AIR DIFFUSER. EXISTING SUPPLY AIR DIFFUSER IS APPROXIMATELY 76"x26", VERIFY IN FIELD. CONNECT NEW SUPPLY DUCTWORK TO EXISTING DIFFUSER. DIFFUSER SHALL BE BALANCED TO 5500 CFM DISCHARGE.
- RECONNECT EXISTING FLEX DUCT TO BOTTOM OF NEW SUPPLY DISCHARGE.
- EXISTING FLOOR OPENING TO EXISTING RETURN AIR SHAFT DOWN TO THEATER LEVEL.
- REINSTALL EXISTING 72"x30" OUTDOOR AIR LOUVER.
- NEW MIXING DAMPER TO MIXING PLENUM. DAMPER SHALL BE APPROXIMATELY 54"x24"
- NEW RETURN AIR PLENUM FABRICATED BY CONTRACTOR. PROVIDE MINIMUM 24"x24" ACCESS DOOR TO PLENUM. PLENUM SHALL BE APPROXIMATELY 84"x48"x30"
- FLEX DUCT PENETRATES NEW RETURN AIR PLENUM. SEAL PENETRATION THROUGH PLENUM. FLEX DUCT IS ROUTED WON RETURN AIR SHAFT TO EXISTING WALL MOUNTED SUPPLY DIFFUSER ON LEVEL BELOW.
- EXISTING THERMOSTAT LOCATED ON LEVEL BELOW IN THE THEATER. EXISTING THERMOSTAT SHALL BE REUSED.
- NEW AIR HANDLING UNIT SHALL BE HUNG FROM CEILING. PROVIDE NECESSARY SUPPORTS AND VIBRATION ISOLATORS.

AIR HANDLING UNIT SCHEDULE

UNIT NO.	SUPPLY FAN DATA											COOLING COIL DATA											
	OA CFM	CFM	QTY	TOTAL SP (IN WC)	EXT. SP (IN WC)	FAN RPM	WHEEL TYPE	DRIVE TYPE	MOTOR			TOTAL COOLING (MBH)	SENSIBLE CAPACITY (MBH)	SPLIT COIL	MAX FACE VEL (FPM)	MAX FINS PER INCH	MIN ROWS	EAT DB/WB (°F)	LAT DB/WB (°F)	MAX AIR PD (IN WC)	DX		
									BHP	HP	VSD										REFRIG. TYPE	QTY CIRCUITS	SST (°F)
AC-2	1750	5500	1	1.83	0.50	1144	FC	BELT	4.39	5	N	193.5	152.3	N	587	12	6	81/66	56/54	0.83	410A	9	45
AC-3	1750	5500	1	1.83	0.50	1144	FC	BELT	4.39	5	N	193.5	152.3	N	587	12	6	81/66	56/54	0.83	410A	9	45

AIR HANDLING UNIT SCHEDULE CONTD.

TOTAL HEAT (MBH)	TYPE	MAX FACE VEL. (FPM)	MIN ROWS	SPLIT COIL	HEATING COIL		MAX AIR PD (IN WC)	STEAM			AIR FILTER DATA			ELECTRICAL			UNIT DIMENSIONS (LxWxH)	MAX UNIT WEIGHT (LBS)	BASIS OF DESIGN			
					EAT DB (°F)	LAT DB (°F)		LB/HR	OPERATING PRES (PSIG)	MERV	THICK (IN)	NO. SIZE	FACE VEL (FPM)	V/PH/HZ	MCA	FLA			MOPD	MANUFACTURER	MODEL	REMARKS
208.5	STEAM	587	1	N	70	105	0.08	217	5	8	2	2-20"x25"	537	240/3/60	21	16.8	35	55.25x58x34	738	JOHNSON CONTROLS	AM1-H-10	AC-2 TO BE RIGHT-HAND UNIT
208.5	STEAM	587	1	N	70	105	0.08	217	5	8	2	2-20"x25"	537	240/3/60	21	16.8	35	55.25x58x34	738	JOHNSON CONTROLS	AM1-H-10	AC-3 TO BE LEFT-HAND UNIT

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PART 1 – GENERAL

A. GENERAL PROVISIONS:

1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE OF WORK AND, BY THEIR OWN INVESTIGATION, FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND QUANTITY OF WORK TO BE DONE UNDER THESE DOCUMENTS.
2. THE MECHANICAL CONTRACTOR SHALL MAINTAIN A CLEAN WORKING ENVIRONMENT.

B. SCOPE OF WORK:

1. FURNISH ALL LABOR AND MATERIALS NECESSARY TO INSTALL AND PLACE INTO OPERATION THE EQUIPMENT AND SYSTEMS DESCRIBED HEREIN AND/OR SHOWN ON THE DRAWINGS. REPAIR REUSED EXISTING EQUIPMENT, CONTROLS, AND SYSTEMS SUCH THAT THEY PROVIDE RELIABLE, TROUBLE FREE OPERATION.

C. CODES, ORDINANCES, AND PERMITS:

1. ALL WORK DONE UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.

D. SUBMITTALS

1. PROVIDE DIGITAL COPIES FOR ALL MECHANICAL SYSTEM EQUIPMENT AND COMPONENTS TO THE OWNER FOR APPROVAL. PROVIDE SPECIFIC DESCRIPTION OF BUILDING/MECHANICAL SYSTEM MODIFICATIONS DUE TO THE USE OF ALTERNATE MATERIALS/METHODS OF WORK. COORDINATE ALL MODIFICATIONS WITH DISCIPLINES AFFECTED BY SAID MODIFICATIONS. ANY SUBSTITUTIONS FROM THE ORIGINAL SPECIFICATIONS MUST BE HIGHLIGHTED FOR REVIEWS.
2. SUBSTITUTIONS FOR SPECIFIED MANUFACTURERS SHALL BE OF EQUAL OR BETTER QUALITY THAN SPECIFIED MANUFACTURERS AS DETERMINED BY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR THE ADDED COST AND IMPLEMENTATION OF ANY CHANGES DUE TO SUBSTITUTION.

E. ELECTRICAL CHARACTERISTICS:

1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MISCELLANEOUS CONTROL WIRING REQUIRED FOR OPERATION OF THE DESCRIBED SYSTEM.
2. MOTORS 1/2 HP AND SMALLER SHALL BE SUITABLE FOR SINGLE PHASE ELECTRIC SERVICE.
3. MOTORS 3/4 HP AND LARGER SHALL BE SUITABLE FOR THREE-PHASE ELECTRIC SERVICE AS NOTED.

F. GUARANTEE:

1. THE MECHANICAL CONTRACTOR SHALL GUARANTEE THAT ALL MATERIALS AND WORK FURNISHED UNDER THIS SECTION SHALL BE FREE FROM DEFECTS FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.
2. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO CORRECT DEFECTS IN THE WORK DURING THE GUARANTEE PERIOD.

G. SEISMIC RESTRAINT AND BRACING:

1. PROVIDE AND INSTALL SEISMIC RESTRAINTS FOR ALL EQUIPMENT, PIPING, DUCTWORK AND ELECTRICAL AS REQUIRED BY 2020 MECHANICAL CODE OF NEW YORK STATE. UTILIZE VENDOR THOROUGHLY FAMILIAR WITH ALL ASPECTS OF THE CODE. ACCEPTABLE MANUFACTURERS INCLUDE MASON INDUSTRIES, KINETICS. CONTRACTOR TO SUBMIT ALL CALCULATIONS.

PART 2 – PRODUCTS

A. SLEEVES, INSERTS AND OPENINGS:

1. PROVIDE SLEEVED OPENINGS FOR ALL PIPING IN FLOOR AND WALL CONSTRUCTION. PROVIDE INFORMATION TO THE GENERAL CONTRACTOR FOR ALL NECESSARY BOXED OPENINGS TO ACCOMMODATE DUCTWORK.
2. SEAL ALL PIPING PENETRATIONS AIR TIGHT WITH PROPER MATERIAL SO AS TO MAINTAIN THE INTEGRITY OF THE PENETRATED BARRIER.

B. VIBRATION ISOLATION:

1. PROVIDE VIBRATION ISOLATION DEVICES FOR ALL MECHANICAL EQUIPMENT FURNISHED UNDER THIS SECTION AS SUITS THE APPLICATION.

C. PIPING MATERIALS:

1. DX PIPING SHALL BE PREPACKAGED TUBING KITS OR TYPE 'ACR' COPPER TUBING, WROUGHT COPPER FITTINGS AND ASSEMBLED USING SILVER SOLDER BRAZED JOINT CONSTRUCTION.
2. CONDENSATE DRAIN PIPING SHALL BE CPVC PLASTIC PIPE WITH SOLVENT CEMENTED JOINTS.
3. STEAM PIPING SHALL BE ASTM A 120 SCHEDULE 40 SEAMLESS, BLACK STEEL PIPE, WITH CLASS 125 CAST IRON FITTINGS, AND THREADED JOINTS.
4. STEAM CONDENSATE PIPING SHALL BE ASTM A 120 SCHEDULE 80 SEAMLESS, BLACK STEEL PIPE, WITH CLASS 124 CAST IRON FITTINGS AND THREADED JOINTS.
5. GENERAL DUTY VALUE APPLICATIONS:
  - a. SHUT-OFF DUTY: USE BALL VALVE
6. FITTINGS:
  - a. WROUGHT-COPPER FITTINGS: ANSI B 16.22, STREAMLINED PATTERN.
  - b. CAST-IRON THREADED FITTINGS: ANSI B 16.4 CLASS 125.
  - c. UNIONS: ANSI B 16.39 MALLEABLE-IRON, CLASS 150, HEXAGONAL STOCK WITH METAL TO METAL BRONZE SEATED SURFACES; FEMALE THREADED ENDS.
  - d. SOLDER FILLER METALS: ASTM B32 95-5 TIN ANTIMONY.
7. Y-PATTERN STRAINER: 125 PSIG WORKING PRESSURE CAST-IRON BODY (ASTM A 126, CLASS B) WITH THREADED CONNECTIONS, BOLTED COVER, PERFORATED TYPE 304 STAINLESS STEEL BASKET AND BOTTOM DRAIN CONNECTION.
8. PRESSURE-REGULATING VALVES: SINGLE-SEATED, DIRECT-OPERATED TYPE, HAVING BRONZE BODY WITH INTEGRAL STRAINER AND COMPLYING WITH REQUIREMENTS OF ASSE STANDARD 1003. SELECT PROPER SIZE FOR MAXIMUM FLOW RATE AND INLET AND OUTLET PRESSURES INDICATED.
9. THERMOSTATIC STEAM TRAPS: CAST BRASS, ANGLE PATTERN BODY, WITH INTEGRAL UNION TAILPIECE AND SCREW-IN CAP; MAXIMUM OPERATING PRESSURE OF 25 PSIG; BALANCING PRESSURE STAINLESS STEEL OR MONEL DIAPHRAGM OR BELLOWS ELEMENT, WITH RENEWABLE HARDENED STAINLESS STEEL VALVE HEAD AND SEAT.

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D. DUCTWORK MATERIALS:

1. ALL DUCTWORK SHALL COMPLY WITH APPLICABLE SMACNA REQUIREMENTS AND NFPA 90A.
2. CONSTRUCT DUCTWORK OF GALVANIZED SHEET STEEL OF LOCK-FORMING QUALITY, ASTM A 527, COATING DESIGNATION G90.
3. CONSTRUCT FLEXIBLE CONNECTIONS OF NEOPRENE-COATED FLAMEPROOF FABRIC CRIMPED INTO DUCT FLANGES FOR ATTACHMENT TO DUCT AND EQUIPMENT.
4. FLEXIBLE DUCT SHALL BE CONSTRUCTED OF TWO-PLY LAMINATE MECHANICALLY CORRUGATED BONDED ALUMINUM INNER CORE COVERED BY ONE INCH THICK FIBERGLASS INSULATION OF ONE POUND DENSITY. FIBERGLASS SHALL BE COVERED WITH A 2.5 MIL POLYETHYLENE VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET THE LATEST REQUIREMENTS OF UL STANDARD 181, CLASS 1, FLEXIBLE AIR DUCT. DUCT TO BE RATED FOR 12 INCHES POSITIVE OR NEGATIVE PRESSURE.
5. DUCT ACCESS DOORS SHALL BE CONSTRUCTED OF SAME OR GREATER GAUGE AS DUCTWORK. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. GASKET ALL EDGES AIRTIGHT, SIZE ACCESS DOORS TO PERMIT MAINTENANCE. MINIMUM SIZE 15" x 15" OR AS LARGE AS AVAILABLE DUCT SPACE WILL ALLOW.
6. TURNING VANES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS.
7. LOW PRESSURE MANUAL DAMPERS SHALL BE OF SINGLE BLADE TYPE OR MULTIBLADE TYPE CONSTRUCTION IN ACCORDANCE WITH SMACNA REQUIREMENTS.

E. INSULATING MATERIALS:

1. ACCEPTABLE MANUFACTURERS INCLUDE OWENS-CORNING FIBERGLASS CORP., SCHULLER, AND CERTAINTED MANSON.
2. FIBERGLASS PIPING INSULATION: ASTM C 547, CLASS 1 UNLESS OTHERWISE INDICATED.
3. FLEXIBLE UNICELLULAR PIPING INSULATION: ASTM C 534, TYPE 1.
4. JACKETS FOR PIPING INSULATION: ASTM C 1136, TYPE 1 VAPOR BARRIER, ALL SERVICE JACKET. ENCASE FIBERGLASS PIPE FITTING INSULATION WITH ONE-PIECE PREMOLDED PVC FITTING COVERS, INSTALL PER MANUFACTURERS INSTRUCTIONS.
5. FOR PIPE INSTALLATION, PROVIDE AND INSTALL ALL STAPLES, BANDS, WIRES, CEMENT, ADHESIVES, SEALERS, AND PROTECTIVE FINISHES AS RECOMMENDED BY INSULATION MANUFACTURER FOR GIVEN APPLICATIONS.
6. FLEXIBLE FIBERGLASS DUCT INSULATION: ASTM C 553, TYPE 1, CLASS B-4, MINIMUM 1.5 LB./CU.FT DENSITY. ALUMINUM FOIL FACING, MINIMUM 0.001 INCHES THICK REINFORCED WITH GLASS FIBER YARN MESH AND LAMINATED TO 40 POUND PERMANENTLY TREATED, FIRE RESISTANT KRAFT WITH A MINIMUM R-VALUE OF 5.0.
7. RIGID FIBERGLASS DUCT INSULATION: ASTM C 612, CLASS 1, 3 LB./CU.FT. DENSITY. ALUMINUM FOIL FACING, MINIMUM 0.001 INCHES THICK REINFORCED WITH GLASS FIBER YARN MESH AND LAMINATED TO 40 POUND, PERMANENTLY TREATED, FIRE RESISTANT KRAFT WITH A MINIMUM R-VALUE OF 3.5.
8. DUCT INSULATION SHALL MEET NFPA 90 PERFORMANCE STANDARDS AND HAVE FIRE HAZARD CLASSIFICATION IN ACCORDANCE WITH ASTM E84, NFPA 225, AND U.L. 723. THE DUCT INSULATION SHALL NOT EXCEED FLAME SPREAD 25, FUEL CONTRIBUTION 50, SMOKE DEVELOPED 50.
9. FOR DUCT INSULATION, PROVIDE ALL STAPLES, BANDS, WIRES, TAPE, ANCHORS, CORNER ANGLES, CEMENTS, ADHESIVES, COATINGS, SEALERS, PROTECTIVE FINISHES AND OTHER ITEMS AS RECOMMENDED BY INSULATION MANUFACTURER FOR GIVEN APPLICATION.

10. FOR OUTDOOR PIPE APPLICATIONS, PROVIDE CLOSED CELL RIGID FIBERGLASS INSULATION WITH ALUMINUM JACKET WITH MOISTURE BARRIER WITH LOCKING LONGITUDINAL STEAM AND BUTT STRAPS. FOR FITTINGS, VALVES, ETC, PROVIDE FACTORY OR JOB FABRICATED ALUMINUM COVER SECURED WITH BANDING AND/OR SCREWS.

F. DIFFUSERS, REGISTERS, AND GRILLES:

1. PROVIDE EQUIPMENT AS MANUFACTURED BY PRICE, ANEMOSTAT, KRUEGER, TITUS OR TUTTLE & BAILEY, EQUAL TO THE MANUFACTURER'S MODELS SCHEDULED.
2. CONSTRUCT REGISTERS AND GRILLES OF ALUMINUM OR STEEL WITH BAKED ENAMEL FINISH, UNLESS OTHERWISE INDICATED, AND PROVIDE WITH FRAME TYPE APPROPRIATE TO THE INSTALLATION. SUBMIT COLOR CHART, COLOR TO BE SELECTED BY ARCHITECT.
3. SUPPLY REGISTERS AND GRILLES SHALL BE DOUBLE DEFLECTION FULLY ADJUSTABLE TYPE WITH INTEGRAL OPPOSED BLADE VOLUME CONTROL DAMPERS, OPERABLE FROM THE FACE. RETURN AND EXHAUST REGISTERS AND GRILLES SHALL HAVE A CORE OF FIXED BLADES.
4. SIDEWALL SUPPLY REGISTERS (TYPE 14) EQUAL TO ANEMOSTAT X2HO.
5. SIDEWALL RETURN REGISTER (TYPE 16) EQUAL TO ANEMOSTAT RC35HD.

G. CONTROL VALVES:

1. PROVIDE 2-POSITION FACTORY FABRICATED CONTROL VALVE OF TYPE, BODY MATERIAL AND PRESSURE CLASS REQUIRED FOR MAXIMUM PRESSURE AND TEMPERATURE RATING OF PIPING SYSTEM.
2. PROVIDE VALVES WHICH MATE AND MATCH MATERIAL OF CONNECTING PIPE UNLESS OTHERWISE INDICATED. EQUIP VALVES WITH CONTROL MOTORS AND PROPER SHUT-OFF RATING FOR EACH INDIVIDUAL APPLICATION.
3. CONTROL MOTORS TO BE 24 VOLT OR 120 VOLT AS SUITS THE APPLICATION.

H. DAMPERS: X.

1. PROVIDE AUTOMATIC CONTROL DAMPERS AS INDICATED, WITH DAMPER FRAMES NOT LESS THAN FORMED 13-GA GALVANIZED STEEL. PROVIDE MOUNTING HOLES FOR ENCLOSED DUCT MOUNTING. PROVIDE DAMPER BLADES NOT LESS THAN FORMED 16-GAUGE GALVANIZED STEEL, WITH MAXIMUM BLADE WIDTH OF 8 INCH. ACCEPTABLE MANUFACTURERS INCLUDE RUSKIN MFG. CO., ARROW UNITED INDUSTRIES INC., LOUVERS & DAMPERS INC.
2. SECURE BLADES TO 1/2 INCH DIAMETER ZINC-PLATED AXLES USING ZINC-PLATED HARDWARE. SEAL OFF AGAINST SPRING STAINLESS STEEL BLADE BEARINGS. PROVIDE BLADE BEARINGS OF NYLON AND PROVIDE THRUST BEARINGS AT EACH END OF EVERY BLADE. CONSTRUCT BLADE LINKAGE HARDWARE OF ZINC-PLATED STEEL AND BRASS. SIZE AS INDICATED ON DRAWINGS.
3. OPERATING TEMPERATURE RANGE: FROM -20° TO 200°F.
4. PROVIDE PARALLEL OR OPPOSED BLADE DESIGN (AS SELECTED BY MANUFACTURER'S SIZING TECHNIQUES) WITH OPTIONAL CLOSED-CELL NEOPRENE EDGING.
5. SIZE EACH MOTOR TO OPERATE DAMPERS WITH SUFFICIENT RESERVE POWER TO PROVIDE SMOOTH MODULATING ACTION OR 2 POSITION ACTION AS SPECIFIED. PROVIDE PERMANENT SPLIT-CAPACITOR OR SHADED POLE TYPE MOTORS WITH GEAR TRAINS COMPLETELY OIL-IMMERSED AND SEALED. EQUIP SPRING-RETURN MOTORS, WHERE INDICATED ON DRAWINGS OR IN OPERATIONAL SEQUENCE, WITH INTEGRAL SPIRAL-SPRING MECHANISM. FURNISH ENTIRE SPRING MECHANISM IN HOUSINGS DESIGNED FOR EASY REMOVAL FOR SERVICE OR ADJUSTMENT OF LIMIT SWITCHED, AUXILIARY SWITCHES, OR FEEDBACK POTENTIOMETER.

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I. SPLIT SYSTEM AIR CONDITIONER:

4. AIR HANDLER : AIR HANDLING UNIT SHALL BE COMPLETELY FACTORY ASSEMBLED INCLUDING COIL, CONDENSATE DRAIN PAN, FAN, MOTOR, FILTERS AND CONTROLS IN AN INSULATED CASING FOR HORIZONTAL CONFIGURATION. CASING SHALL CONSIST DOUBLE WALL OF RUGGED SHEET METAL AND STEEL CONSTRUCTION WITH PAINTED ENAMEL FINISH. THE DOUBLE WALL CABINET SHALL BE INSULATED WITH 1" FIBERGLASS INSULATION. THE SINGLE REFRIGERANT CIRCUIT SHALL BE CONTROLLED BY A FACTORY INSTALLED FLOW CONTROL CHECK VALVE. THE ALUMINUM FIN EVAPORATOR COIL SHALL BE MECHANICALLY BONDED TO 1/2 INCH COPPER TUBING. THE COIL SHALL BE FACTORY PRESSURE AND LEAK TESTED. THE CONDENSATE DRAIN PAN SHALL BE SLOPED TO PREVENT STANDING WATER AND SHALL BE CONSTRUCTED OF 18 GAUGE G60 GALVANIZED OR STAINLESS STEEL. THE FORWARD CURVED BELT DRIVEN FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED WITH SELF-ALIGNING, NON-REVERSIBLE BALL BEARINGS. PROVIDE CONTACTOR TYPE MOTOR STARTER. THE TWO INCH, LOW VELOCITY SEMI-PERMANENT FILTERS SHALL BE PROVIDED WITH THE UNIT. A LOW VOLTAGE TERMINAL CONTROL BOARD SHALL BE PROVIDED. PROVIDE HINGE TYPE ACCESS DOORS WITH QUICK-ACTION LATCHES ON SIDE WITH COIL CONNECTIONS.
5. CONDENSING UNIT: THE UNIT SHALL BE COMPLETELY FACTORY ASSEMBLED INCLUDING COMPRESSOR, CONDENSER COIL, FAN AND CONTROLS IN A WEATHER RESISTANT CASING. CASING SHALL BE CONSTRUCTED OF HEAVY GAGE GALVANIZED STEEL WITH A WEATHER RESISTANT FINISH. HERMETIC COMPRESSOR SHALL FEATURE AN INTERNAL OVER TEMPERATURE AND PRESSURE PROTECTION. THE COMPRESSOR SHALL BE INTERNALLY ISOLATED. THE CONDENSER COIL SHALL BE CONSTRUCTED FOR CORROSION RESISTANCE WITH ALUMINUM FINS GLUED TO SEAMLESS ALUMINUM TUBE. THE UNIT SHALL HAVE LOW AMBIENT CONTROLS AND TWO.
6. MIXING BOX: INTERNALLY MOUNTED PARALLEL-BLADE DAMPERS IN A REINFORCED, GALVANIZED STEEL CABINET. DAMPER BLADE SHALL BE AIRFOIL DESIGN, GALVANIZED STEEL CONSTRUCTION, MECHANICALLY FASTENED TO SEAL OPERATING ROD. OPERATING RODS SHALL ROTATE ON STAINLESS STEEL SLEEVE BEARINGS. DAMPER BLADES SHALL INCLUDE METAL COMPRESSABLE JAM SEALS AND EXTRUDED VINYL EDGE SEALS. DAMPERS SHALL BE OF LOW LEAK DESIGN, WITH LEAKAGE RATE NOT TO EXCEED 9 CFM/SG.FT AT 4.0 INCH W.G. PRESSURE DIFFERENTIAL. MIXING BOX TO BE SHIPPED FULL ASSEMBLED AND INSULATED.

J. CONTROL VALVES:

1. PROVIDE MODULATING FACTORY FABRICATED CONTROL VALVE OF TYPE, BODY MATERIAL AND PRESSURE CLASS REQUIRED FOR MAXIMUM PRESSURE AND TEMPERATURE RATING OF PIPING SYSTEM.
2. PROVIDE VALVES WHICH MATE AND MATCH MATERIAL OF CONNECTING PIPE UNLESS OTHERWISE INDICATED. EQUIP VALVES WITH CONTROL MOTORS AND PROPER SHUT-OFF RATING FOR EACH INDIVIDUAL APPLICATION.
3. CONTROL MOTORS TO BE 24 VOLTS.

PART 3 - EXECUTION

- A. PLANS AND SPECIFICATIONS: THE PLANS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GENERAL SCOPE OF WORK.
- B. WORK COORDINATION AND JOB OPERATIONS: THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES, PROVIDING TIMELY INFORMATION ON HIS NEEDS AND RESPOND IN A TIMELY MANNER TO REQUESTS BY OTHERS.
- C. MATERIALS AND WORKMANSHIP: ALL MATERIALS SHALL BE NEW AND WITHOUT DAMAGED PARTS. ALL WORK SHALL BE ACCOMPLISHED BY WORKMEN TRAINED IN THAT PARTICULAR FUNCTION OR TASK.
- D. PROTECTION AND CLEANUP: ALL MATERIALS SHALL BE SUITABLY STORED DURING CONSTRUCTION TO PREVENT DAMAGE AND/OR DETERIORATION. KEEP THE SITE CLEAN OF DEBRIS DUE TO THESE OPERATIONS. CAP/SEAL OR OTHERWISE PROTECT PIPING AND DUCTWORK FROM FOREIGN MATERIAL DURING CONSTRUCTION. AIR FILTERS UPSTREAM OF COILS SHALL BE CHANGED REGULARLY TO PREVENT BUILDUP OF MATERIAL ON COIL. FILTERS SHALL BE CHANGED AT LEAST WEEKLY OR WHEN FULLY LOADED.

- E. SYSTEM STARTUP AND OPERATION: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO PLACE THE HVAC SYSTEMS INTO OPERATION. MAINTAIN OPERATION DURING BALANCING AND INSTRUCTION PERIODS. INSURE ALL EQUIPMENT IS RUNNING PROPERLY WITH PROPER LUBRICATION, WITHOUT EXCESSIVE VIBRATION, AND PROPER ELECTRICAL CHARACTERISTICS. PROVIDE OWNER WITH ANY MANUALS, AIR BALANCE REPORTS PRODUCT MAINTENANCE SPECIFICATIONS, BROCHURES AND/OR DRAWINGS NEEDED FOR THE OPERATION AND MAINTENANCE OF NEW EQUIPMENT.

F. SYSTEM BALANCING:

1. PROVIDE FOR AIR FLOW BALANCING FOR THE INDICATED FLOW QUANTITIES (±10%) AT ALL DEVICES, TERMINAL UNITS AND EQUIPMENT. EXISTING EQUIPMENT SHALL BE BALANCED FOR ORIGINAL FLOW UNLESS INDICATED OTHERWISE. ALL BALANCING PROCEDURES SHALL CONFORM TO ASHRAE RECOMMENDATIONS.
2. MAKE NECESSARY ADJUSTMENTS TO MAIN HVAC EQUIPMENT TO ACHIEVE THE DESIGN QUANTITIES INDICATED.
3. PROVIDE DIGITAL COPY OF AIR BALANCE REPORT TO OWNER.
4. CONTRACTOR SHALL RE-VISIT THE SITE AFTER THE SITE HAS BEEN OCCUPIED TO PERFORM THE FINAL BALANCE ON THE SYSTEM. CONTRACTOR SHALL SCHEDULE FINAL VISIT WITH OWNER.

G. DUCTWORK SYSTEM INSTALLATION:

1. ALL DUCTWORK SHALL COMPLY WITH APPLICABLE SMACNA REQUIREMENTS AND NFPA 90A.
2. SEAL ALL DUCTWORK AIRTIGHT WITH AN APPROVED SEALANT METHOD TO WITHSTAND MAXIMUM OPERATING PRESSURE OF SYSTEM OR 4 INCHES WATER GAUGE MINIMUM FOR SUPPLY DUCTWORK AND 2 INCHES WATER GAUGE MINIMUM FOR RETURN AND EXHAUST AIR DUCTWORK.
3. SUPPORT ALL DUCTWORK FROM STRUCTURE UTILIZING MATERIAL COMPATIBLE WITH DUCT MATERIAL.
4. INSTALL ALL DUCTWORK CONCEALED ABOVE CEILING OR BEHIND FINISHED CONSTRUCTION.
5. PROVIDE FLEXIBLE DUCT CONNECTIONS WHEREVER DUCTWORK CONNECTS TO VIBRATION ISOLATED EQUIPMENT. INSTALL AIRTIGHT WITH ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR THERMAL, AXIAL, TRANSVERSE, AND TORSIONAL MOVEMENT, AND ALSO CAPABLE OF ABSORBING VIBRATIONS OF CONNECTED EQUIPMENT.
6. PROVIDE ACCESS DUCT DOORS OF THE SIZE AND LOCATIONS TO PERMIT INSPECTION AND MAINTENANCE OF EQUIPMENT.
7. PROVIDE TURNING VANES AT ALL RECTANGULAR ELBOWS.
8. PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTS LEADING TO INDIVIDUAL DIFFUSERS.

Project

**TOWN OF YORKTOWN  
THEATER AC  
REPLACEMENT**

268 VETERANS RD,  
YORKTOWN HEIGHTS, NY 10598

**MICHAEL REILLY JR, PE**  
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NORWALK, CT 06855

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Professional License No.

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H. INSULATION INSTALLATION:

1. EXAMINE AREAS AND CONDITIONS UNDER WHICH INSULATION IS TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL SATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO INSTALLER.
2. INSULATE REFRIGERANT SUCTION LINES ONE INCH OR LESS WITH 1 INCH THICK FLEXIBLE UNICELLULAR. INSULATE REFRIGERANT LINES LARGER THAN ONE INCH WITH 1-1/2" THICK FLEXIBLE UNICELLULAR.
3. INSULATE INTERIOR CONDENSATE DRAIN PIPING WITH 1/2 INCH THICK FLEXIBLE UNICELLULAR INSULATION.
4. INSULATE ALL SUPPLY AIR, RETURN AIR DUCTWORK AND OUTSIDE AIR DUCTWORK WITH 1-1/2 INCH THICK INSULATION. APPLY RIGID INSULATION FOR EXPOSED DUCTWORK AND FLEXIBLE INSULATION FOR CONCEALED DUCTWORK.
5. INSULATE ALL STEAM AND CONDENSATE PIPING WITH 2-1/2" THICK FIBERGLASS INSULATION.

I. PIPING SYSTEM INSTALLATION:

1. PIPING SHALL BE INSTALLED STRAIGHT AND PLUMB IN A NEAT WORKMAN-LIKE MANNER FOLLOWING BUILDING LINES. PARTICULAR EMPHASIS SHALL BE PAID TO ARRANGING PIPING TO PERMIT MAXIMUM ACCESS SPACE AROUND EQUIPMENT. PIPING SHALL BE RUN CONCEALED BEHIND FINISHED CONSTRUCTION. SUSPEND PIPING FROM THE STRUCTURE UTILIZING ADJUSTABLE STEEL CLEVIS HANGERS OR ADJUSTABLE ROLLER HANGERS FOR HORIZONTAL RUNS.
2. USE FITTINGS FOR ALL CHANGES IN DIRECTION AND ALL BRANCH CONNECTIONS.
3. INSTALL PIPING TIGHT TO SLABS, BEAMS, JOINTS, COLUMNS, WALLS, AND OTHER PERMANENT ELEMENTS OF THE BUILDING. PROVIDE SPACE TO PERMIT INSULATION APPLICATIONS, WITH 1 INCH CLEARANCE OUTSIDE THE INSULATION. ALLOW SUFFICIENT SPACE ABOVE REMOVABLE CEILING PANELS TO ALLOW FOR PANEL REMOVAL.
4. INSTALL PRESSURIZED PIPING AT A UNIFORM GRADE OF 1 INCH IN 40 FEET, UPWARD IN THE DIRECTION OF FLOW.
5. CONDENSATE DRAIN PIPING SHALL BE PITCHED 1/4 INCH PER LINEAR FOOT DOWNWARD IN THE DIRECTION OF FLOW WITH CLEANOUT EVERY 50 FEET.
6. MAKE REDUCTIONS IN PIPE SIZES USING ECCENTRIC REDUCER FITTING INSTALLED WITH THE LEVEL SIDE UP.
7. INSTALL UNIONS IN PIPES 2 INCHES AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTIONS TO EACH PIECE OF EQUIPMENT, AND ELSEWHERE AS INDICATED.
8. INSTALL DIELECTRIC WATERWAY FITTINGS TO JOIN DISSIMILAR METALS.
9. PROVIDE AND INSTALL ALL VALVES, FITTINGS, UNIONS, ESCUTCHEONS, ETC. REQUIRED FOR INSTALLATION IN A PROFESSIONAL MANNER.
10. REFRIGERATION LINES SHALL BE SIZED AND RUN IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL ALL VALVES, SIGHT GLASSES, FILTER DRYERS, ETC., REQUIRED TO MEET MANUFACTURERS RECOMMENDATIONS.
11. INSTALL PRESSURE REGULATING VALVE WITH INLET AND OUTLET SHUT-OFF VALVES AND BALANCING COCK BYPASS. INSTALL PRESSURE GAGE ON VALVE OUTLET.
12. INSTALL STRAINERS ON SUPPLY SIDE OF EACH CONTROL VALVE, PRESSURE REGULATING VALVE AND ELSEWHERE AS INDICATED.
13. INSTALL STEAM TRAPS IN ACCESSIBLE LOCATIONS AS CLOSE AS POSSIBLE TO CONNECTED EQUIPMENT. MAXIMUM ALLOWABLE DISTANCE FROM EQUIPMENT IS 4 FEET. UNLESS OTHERWISE INDICATED, INSTALL GATE VALVE DOWNSTREAM FROM TRAP.

14. INSTALL STEAM BRANCH CONNECTIONS TO SUPPLY MAINS USING 45° FITTINGS IN MAIN WITH TAKE-OFF OUT THE TOP OF THE MAIN. USE 90° "TEE" FITTINGS IS PERMISSIBLE, WHERE USE OF 45° FITTINGS ARE NOT PRACTICAL. WHERE THE LENGTH OF A BRANCH TAKEOFF IS LESS THAN 10 FEET, PITCH BRANCH LINE DOWN TOWARD MAINS, 1/2 INCH PER 10 FEET.

J. FILTER INSTALLATION:

13. INSTALL AIR FILTERS, AIR FILTER GAGE AND HOLDING DEVICES IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOGNIZED INDUSTRY PRACTICES. POSITION UNIT WITH SUFFICIENT CLEARANCE FOR NORMAL SERVICE AND MAINTENANCE. ANCHOR FILTER HOLDING FRAMES SECURELY TO SUBSTRATE. COORDINATE WITH OTHER WORK INCLUDING DUCTWORK, PIPING, CONDUIT, ETC. TO MAINTAIN REQUIRED CLEARANCES AND CONSISTENT AIR VELOCITY ACROSS FILTER BANK.
14. PROVIDE MINIMUM 2 COMPLETE SETS OF SPARE FILTERS FRO USE DURING CONSTRUCTION. CHANGE FILTERS WHEN THE FILTER PRESSURE DROP EXCEEDS RECOMMENDED MAXIMUM. PROVIDE ADDITIONAL SETS OF FILTERS AS NEEDED DURING CONSTRUCTION. A NEW SET OF FILTERS SHALL BE INSTALLED BEFORE TESTING AND BALANCING. MINIMUM 3 SETS TOTAL.

K. SPLIT SYSTEM AIR CONDITIONER INSTALLATION:

1. AIR HANDLER (AH-1): INSTALL AIR HANDLER SUSPENDED FROM CEILING AT LOCATION INDICATED. INSTALL PLUMB AND LEVEL FIRMLY ANCHORED WITH VIBRATION ISOLATION AS REQUIRED. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS MAINTAINING RECOMMENDED CLEARANCES.
2. CONDENSING UNIT (CU-1): INSTALL AT GRADE ON CONCRETE PAD IN LOCATION INDICATED. CONCRETE PAD TO BE PROVIDED AND INSTALLED BY OWNER. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS MAINTAINING RECOMMENDED CLEARANCES. INSTALL THERMOSTATS IN LOCATION INDICATED AND CONNECT THERMOSTATS TO CONDENSING UNIT AND AIR HANDLER.

L. PIPING INSTALLATION:

1. INSULATE STEAM PIPING (LPS, LPR) 1-1/2" THICK FOR PIPE UP TO 1-1/2", 3" THICK FOR PIPE 2" AND ABOVE.

PART 4 - CONTROLS CONTROLS

A. CONTROLS

8. ON-OFF THERMOSTATS: PROVIDE THERMOSTAT OF BIMETAL ACTUATED OPEN CONTACT, OR BELLOWS ACTUATED ENCLOSED SNAP-SWITCH TYPE OR EQUIVALENT SOLID-STATE TYPE; UL-LISTED AT ELECTRICAL RATING COMPARABLE WITH APPLICATION. PROVIDE BIMETAL THERMOSTATS WHICH EMPLOY HEAT ANTICIPATION. FOR LOW VOLTAGE THERMOSTATS, PROVIDE THERMOSTATS OF BIMETAL OPERATED MERCURY-SWITCH TYPE, WITH EITHER ADJUSTABLE OR FIXED UNIVERSAL ANTICIPATION HEATER.
9. INSTALL TEMPERATURE SENSORS 54" ABOVE FLOOR. INSTALL AND SECURELY FASTEN ALL CONTROL WIRING IN A NEAT WORKMANLIKE MANNER. VERIFY FINAL THERMOSTAT LOCATION WITH ARCHITECT.

B. SEQUENCE OF OPERATION.

1. AIR HANDLER/CONDENSING UNIT: INTERLOCK A THERMOSTAT TO PROVIDE THE FOLLOWING SEQUENCE OF OPERATION
  - a. DURING THE OCCUPIED TIME PERIOD, THE AIR HANDLER SHALL RUN CONTINUOUSLY PROVIDING VENTILATION TO THE SPACE. WHEN THE THERMOSTAT CALLS FOR COOLING, THE CONDENSING UNIT SHALL ENERGIZE TO PROVIDE COOLING, AND THE STEAM VALVE SHALL MODULATE CLOSED. WHEN THE ROOM TEMPERATURE DROPS BELOW 68°F, THE STEAM VALVE ON THE APPLICABLE COIL SHALL MODULATE TO HEAT THE SUPPLY AIR AND MAINTAIN THE THERMOSTAT SETPOINT.
  - b. DURING THE UNOCCUPIED TIME PERIOD, THE AIR CONDITIONING SYSTEM SHALL NOT OPERATE UNLESS THE SPACE TEMPERATURE DROPS BELOW 60°F.

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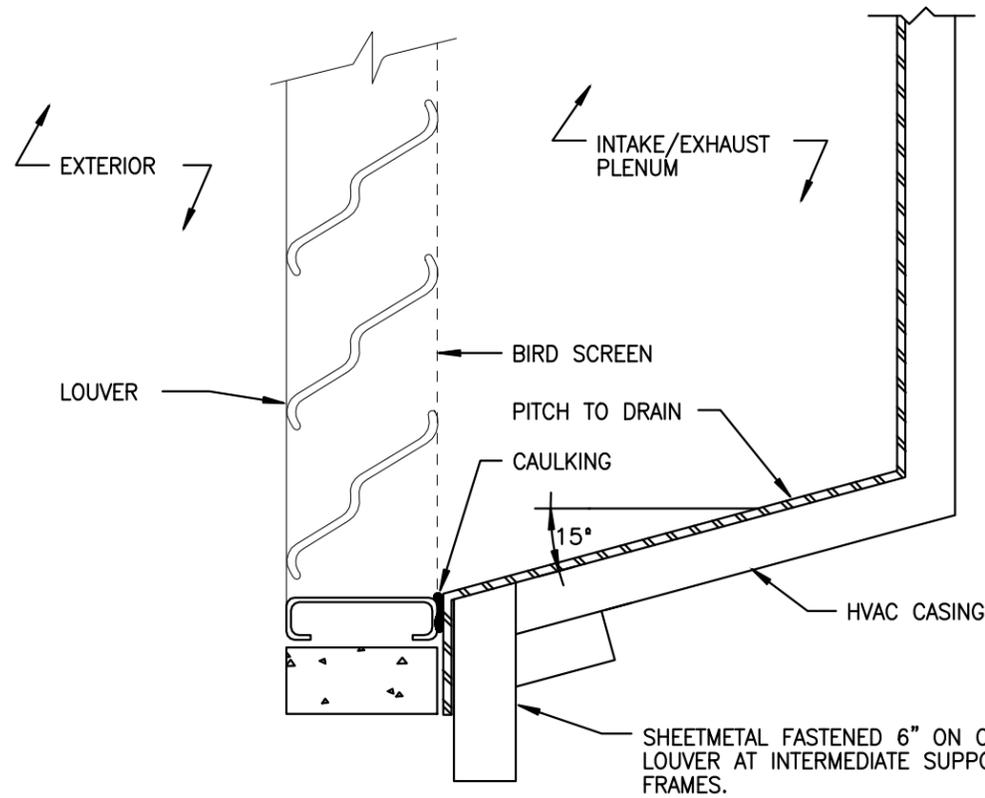
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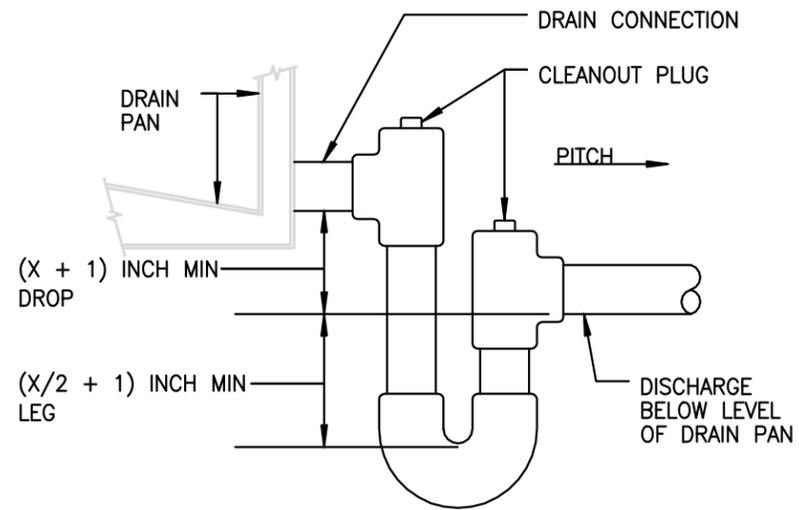
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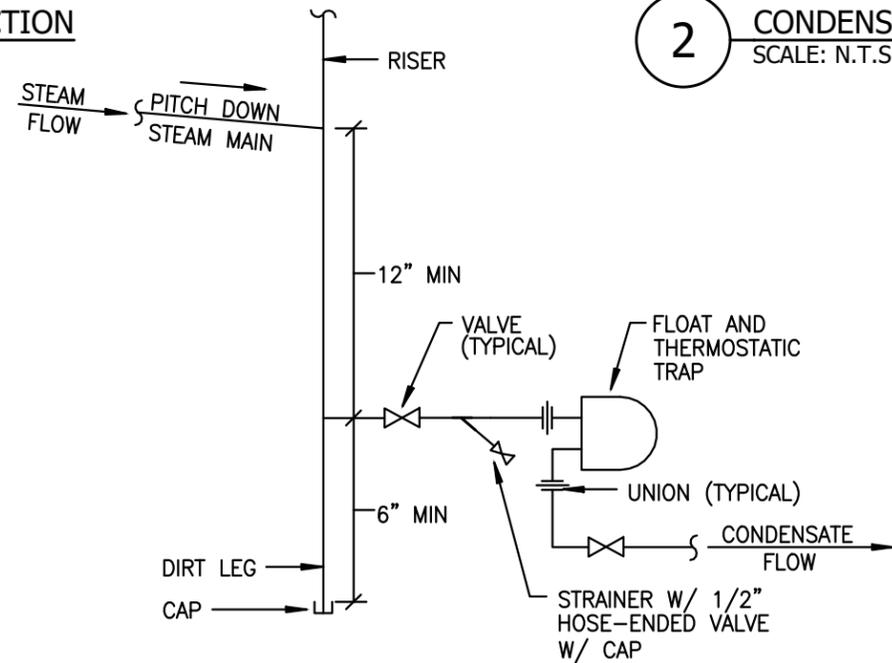
**1** INTAKE PLENUM TO LOUVER CONNECTION  
 SCALE: N.T.S.



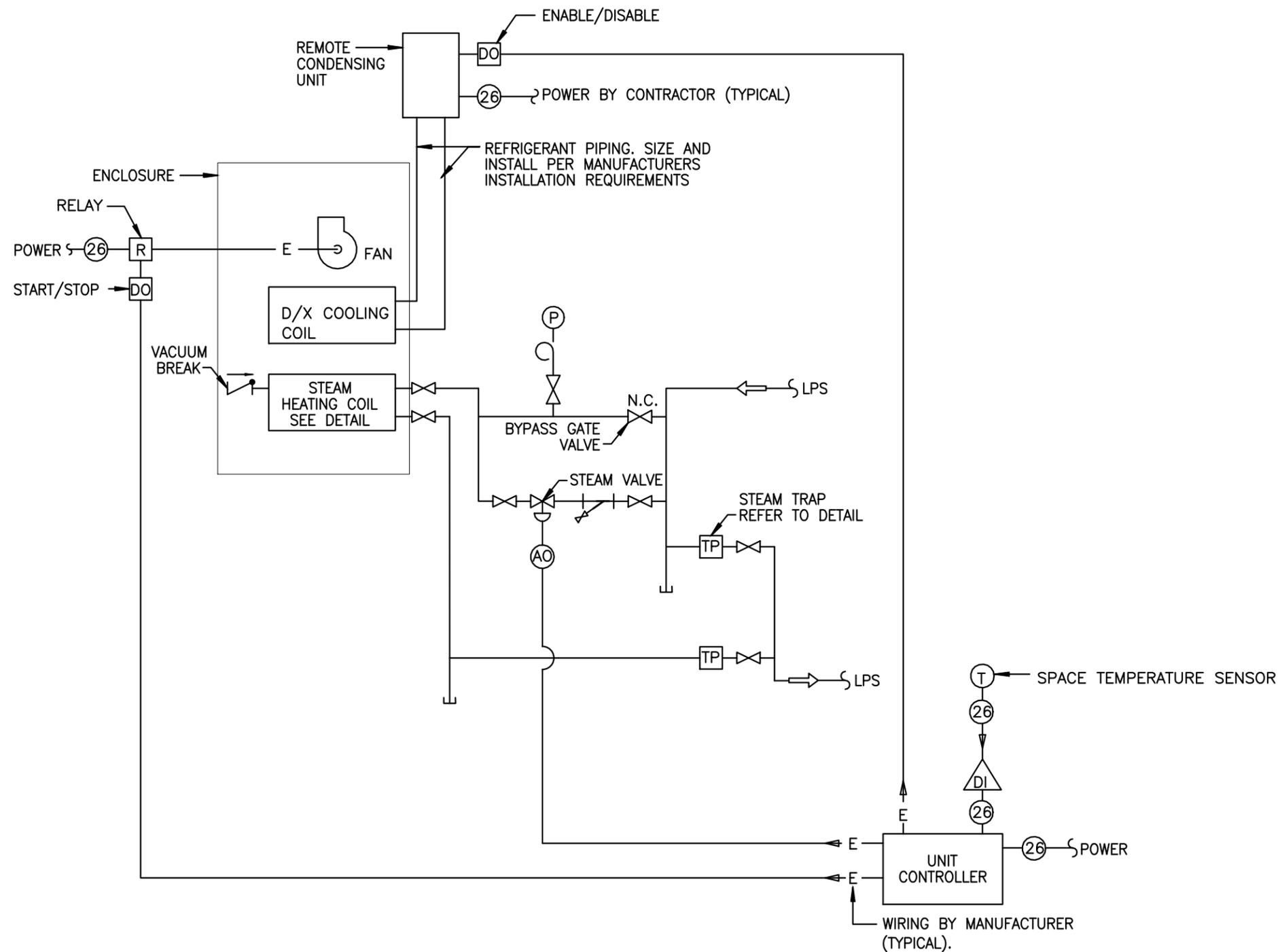
**NOTES:**

1. X= SUCTION PRESSURE IN SECTION (NEGATIVE INTERNAL S.P. IN INCHES WC)
2. FOR AIR HANDLING UNITS X= 4" WC

**2** CONDENSATE DRAIN P-TRAP  
 SCALE: N.T.S.



**3** LOW PRESSURE STEAM TRAP  
 SCALE: N.T.S.



**1** AIR HANDLING UNIT  
 SCALE: N.T.S.

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