C. ARRANGE PIPING TO COILS AND EQUIPMENT TO PERMIT SERVICING OR REMOVALS WITHOUT DISMANTLING PIPING BRANCHES.

D. FURNISH AND INSTALL PIPING HANGERS, SUPPORTS, ANCHORS AND GUIDES HAVING A BUILT-IN SAFETY FACTOR OF FIVE (5), IN CONFORMANCE TO THE LATEST ASME CODE FOR PRESSURE PIPING. ALL HANGER SPECIALTIES SHALL BE FURNISHED WITH ZINC CHROMATE PRIME PAINT FINISH.

E. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDENSATE DRAIN PIPING WITH 1" FIBERGLASS INSULATION TO PREVENT CONDENSATION IN THE HUNG CEILING.

F. PIPING SCHEDULE

SERVICE	MATERIALS	TYPE	WEIGHT
CHILLED WATER	COPPER	L	TYPE 1
HOT WATER	COPPER	L	TYPE 1
DRAIN RUNOUTS	COPPER	HARD	TYPE 1

G. SCHEDULE OF PIPING FITTINGS:

SERVICE	SIZE	MATERIALS	TYPE	WEIGHT
CHILLED WATER	TO 2 1/2"	WROUGHT COPPER	SCREWED BRAZED	250 POUND
HOT WATER	TO 2 1/2"	WROUGHT COPPER	BRAZED	150 POUND
DRAINS	ALL	WROUGHT COPPER	SOLDER	STANDARD

H. ALL PIPING CONNECTIONS OF 2-1/2" AND LARGER SHALL BE WELDED USING EITHER GAS WELDING OR THE METALLIC ARC PROCESS.

I. DIELECTRIC FITTINGS SHALL BE USED AT ALL DISSIMILAR METAL CONNECTIONS.

J. ALL HYDRONIC PIPING SYSTEMS SHALL BE TESTED USING FIRST A COMPRESSED AIR TEST FOR 2-HOURS WITH NO VISIBLE DROP IN PRESSURE, THEN HYDROSTATICALLY AT 100 PSIG WHILE VISUALLY CHECKING ALL JOINTS.

21. TREATMENT OF PIPING SYSTEMS

A. PROVIDE WRITTEN REPORT DESCRIBING WATER QUALITY AND EXISTING WATER TREATMENT PROCEDURES.

B. ADVISE BUILDING OPERATING PERSONNEL OF EXTENT OF PIPE CLEANING AND TREATMENT INCLUDING PROCEDURES TO BE USED. OBTAIN APPROVAL OF BUILDING LANDLORD PRIOR TO PROCEEDING.

C. PROVIDE VALVING AS REQUIRED TO ISOLATE NEW PIPING FROM EXISTING SYSTEMS.

D. PROVIDE TEMPORARY BYPASS PIPING TO FULLY CIRCULATE THROUGH ALL NEW PIPING. NO DEAD ENDS WILL BE PERMITTED.

E. PROVIDE A PRE-STARTUP NON-FOAMING, LIQUID DETERGENT DISPERSANT CLEANER FOR CLEANING OF ALL SYSTEMS TO REMOVE OIL AND FOREIGN MATTER FROM THE PIPING AND EQUIPMENT PRIOR TO THE FINAL FILLING OF THE SYSTEMS. USE A CHEMICAL THAT IS NOT INJURIOUS TO PERSONS, PIPING, PIPE JOINT COMPOUNDS, PACKINGS, COILS, VALVES, PUMPS AND THEIR MECHANICAL SEALS, TUBES OR OTHER PARTS OF THE SYSTEM.

22. PIPE CLEANING

A. CLEAN NEW OR LIGHTLY CORRODED EXISTING SYSTEMS WITH A 1% TO 2% SOLUTION OF TRISODIUM PHOSPHATE IN WATER PRIOR TO THE INSTALLATION OF INDUSTRIALLY INHIBITED GLYCOL FLUID.

B. CLEAN EXTENSIVELY CORRODED SYSTEMS USING THE SERVICES OF AN INDUSTRIAL CLEANING COMPANY. MAKE ALL NECESSARY REPLACEMENTS AND REPAIRS.

C. CLEAN NEW PIPING INTERNALLY BY FLUSHING PRIOR TO THE APPLICATION OF PRESSURE TESTS, AND BEFORE THE CHEMICAL CLEANOUT PROCEDURES SPECIFIED HEREIN. PROVIDE TEMPORARY STRAINERS AT THE INLET TO THE CHILLED WATER, AND HOT WATER PUMPS BEFORE THE START OF CLEANING PROCEDURES.

D. BLOCK OFF AND ISOLATE CIRCULATING PUMPS, COOLING COILS, HEATING COILS, AND HEAT EXCHANGERS DURING THE PRELIMINARY FLUSHING AND DRAINING PROCESS.

E. PROVIDE TEMPORARY CONNECTIONS WITH VALVES TO FILL AND DRAIN THE PIPING AND EQUIPMENT AFTER COMPLETION OF THE CHEMICAL CLEANOUT PROCEDURE. PROVIDE TEMPORARY BLIND FLANGES AND/OR CAPS TO ISOLATE THE PIPING AND EQUIPMENT.

F. PROVIDE TEMPORARY PIPING CONNECTIONS, VALVES, STRAINERS, BYPASSES, AND BLANK CONNECTIONS WHERE REQUIRED TO CLEAN OUT SYSTEMS.

G. AFTER EACH HYDROSTATIC LEAK TESTING PROCEDURE IS COMPLETE, DRAIN THE SYSTEM UNTIL EMPTY. THE PIPING SYSTEMS ARE INTERNALLY CHEMICALLY TREATED AND PROTECTED DURING THE HYDROSTATIC TESTING PROCEDURE. THOROUGHLY CLEAN THE PIPING AND FLUSH AS FOLLOWS:

1. CLEANING WILL NOT TAKE PLACE MORE THAN 14 DAYS PRIOR TO STARTUP.

2. ADD CHEMICAL PIPE CLEANING COMPOUND AS RECOMMENDED BY THE CHEMICAL MANUFACTURER'S REPRESENTATIVE TO THE SYSTEM SIMULTANEOUSLY WITH THE FILLING OF THE SYSTEM.

3. CIRCULATE THE CLEANING COMPOUNDS IN THE SYSTEM FOR THE TIME PERIOD SPECIFIED BY THE CHEMICAL MANUFACTURER.

4. DRAIN THE SYSTEM UNTIL EMPTY FROM ITS LOWEST POINT.

5. FILL THE SYSTEM AGAIN WITH FRESH WATER AND FLUSH THOROUGHLY UNTIL CLEAN WATER IS OBTAINED. USE A ONE (1) MICRON CARTRIDGE TYPE STRAINER ELEMENT AT END OF DRAIN HOSE TO CONFIRM THAT DISCHARGE WATER IS FREE OF FOREIGN MATERIAL.

H. ADDITIONAL REQUIREMENTS FOR HOT WATER HEATING SYSTEM

1. FILL SYSTEM WITH CITY WATER; START CIRCULATION PUMP AND VENT HIGH POINTS MANUALLY UNTIL AIR IS RELEASED FROM THE SYSTEM.

2. FLUSH THE SYSTEM WITH FRESH WATER, DRAIN A SECOND TIME AND REFILL. AFTER FINAL FILLING, THE PH OF THE WATER MUST NOT EXCEED THE PH OF THE FRESH INCOMING WATER BY MORE THAN 0.5 PH.

3. INTRODUCE THE CHEMICAL CLEANING SOLUTION INTO THE SYSTEM GRADUALLY BY INJECTING INTO THE SUCTION SIDE OF THE CIRCULATING PUMP, OR BY MEANS OF A BYPASS CHEMICAL FEEDER. SLOWLY RAISE AND THEN MAINTAIN THE TEMPERATURE OF THE CIRCULATING HOT WATER AT 150°F BY CIRCULATING THROUGH THE HOT WATER HEAT EXCHANGER.

4. WHILE THE WATER IS BEING HEATED AND CIRCULATED, OPEN EACH DRAIN CONNECTION FOR A SHORT FLOW. REPEAT AT HOURLY INTERVALS. REPLACE WATER DRAINED DURING BLOWDOWN WITH CHEMICAL SOLUTION AS REQUIRED UNTIL AIR IS ELIMINATED FROM THE SYSTEM. THE CHEMICAL CLEANOUT PROCEDURE SHALL BE CONTINUOUS IN THIS MANNER FOR TWO FULL 8-HOUR PERIODS.

5. AT THE CONCLUSION OF THE CHEMICAL CLEANOUT PERIOD COMPLETELY DRAIN THE ENTIRE SYSTEM AND ALLOW TO COOL. FLUSH OUT WITH FRESH CITY WATER PRIOR TO FINAL ACTIVATION OF THE SYSTEM.

23. ELECTRICAL WIRING AND WIRING DIAGRAMS

A. ELECTRICAL WIRING FOR POWER, SAFETY AND INTERLOCKING CONTROLS FOR MOTORS, MOTOR STARTER AND OTHER ELECTRICAL APPARATUS AND DEVICES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNDER ANOTHER DIVISION OF CONTRACT WORK.

B. THE MECHANICAL CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL, TERMINAL POINT TO TERMINAL POINT, COMPLETELY COORDINATED AND INTEGRATED WIRING DIAGRAMS FOR ALL WIRING REQUIRING FIELD INSTALLATIONS BY THE ELECTRICAL CONTRACTOR.

C. SPECIFIC WIRING DIAGRAMS OF FACTORY INSTALLED EQUIPMENT WIRING SHALL ALSO BE SUBMITTED FOR APPROVAL AND FURNISHED TO THE ELECTRICAL CONTRACTOR FOR HIS INSTALLATION REQUIREMENTS AND OTHER USES.

24. VIBRATION ISOLATION SYSTEMS

A. ALL ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, INCLUDING PIPING CONNECTIONS TO THIS EQUIPMENT SHALL BE FURNISHED WITH VIBRATION ISOLATORS, TO PREVENT THE TRANSMISSION OF OBJECTIONABLE NOISES, SOUND OR VIBRATIONS TO THE OCCUPIED SPACES AND TO THE BUILDING STRUCTURES.

B. ALL FLOOR MOUNTED EQUIPMENT SHALL BE ERECTED ON 4" CONCRETE PADS OVER THE COMPLETE FLOOR AREA OF THE EQUIPMENT UNLESS INDICATED TO THE CONTRARY ON THE DRAWINGS.

C. VIBRATION ISOLATORS FOR FLOOR OR CEILING SUPPORTED EQUIPMENT SHALL HAVE A MAXIMUM LATERAL MOTION UNDER EQUIPMENT START-UP OR SHUTDOWN CONDITIONS OF 1/4". MOTIONS IN EXCESS SHALL BE RESTRAINED BY SPRING TYPE MOUNTINGS.

D. ALL FLOOR MOUNTED EQUIPMENT SHALL BE SUPPORTED ON SPRING TYPE VIBRATION ISOLATORS SECURED TO THE SLAB WITH (1") MAXIMUM STATIC DEFLECTION.

E. ALL EQUIPMENT SUSPENDED FROM SLABS SHALL BE SUSPENDED WITH SPRING TYPE VIBRATION ISOLATORS.

F. VIBRATION ISOLATORS SHALL BE PROVIDED BY ANY OF THE FOLLOWING MANUFACTURERS:

1. MASON INDUSTRIES
2. VIBRATION ELIMINATORS CO.
3. CONSOLIDATED KINETICS CO.

25. VALVES AND PIPING ACCESSORIES

A. FURNISH AND INSTALL ALL VALVES NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM. ALL SHUT-OFF VALVES SHALL BE FULL LINE SIZE AND SHALL BE GOOD FOR THE WORKING PRESSURE NOTED FOR THE VARIOUS SYSTEMS.

B. ALL VALVES SHALL BE GATE VALVES UNLESS OTHERWISE NOTED OR SPECIFIED. BUTTERFLY VALVES MAY BE USED ON PIPE 4" AND LARGER.

C. ALL VALVES USED FOR THROTTLING SHALL BE PLUG VALVES:

2-1/2" AND UNDER SCREWED, ALL BRONZE; REGRINDING DISCS.
2-1/2" AND OVER - FLANGE, IRON, IRON-BODY WITH BRONZE TRIM.
250 LB. CLASS.

D. ALL CHECK VALVES SHALL BE OF THE SWITCH TYPE WITH SCREWED BONNET; RENEWABLE BRONZE SEAT AND DISC., 250 LB. CLASS.

G. STRAINERS SHALL BE Y-TYPE CONSTRUCTED OF EXTRA HEAVY CAST IRON SCREWED AND FOR A STEAM WORKING PRESSURE OF 250 PSI. SCREENS SHALL BE REMOVABLE AND WITH #20 STAINLESS STEEL MESH. INSTALL STRAINERS WITH BLOW-OFF VALVE. STRAINER TO BE WATSON MCDANIEL OR APPROVED EQUAL.

H. PRESSURE REDUCING VALVE SHALL BE LESLIE GPK OR APPROVED EQUAL. THE VALVE SHALL BE CAST IRON THREADED FOR A WORKING PRESSURE OF 250 PSI. MAIN VALVE SHALL BE HARDENED STAINLESS STEEL. SEAT RING TO BE STAINLESS STEEL. STEM GUIDES TO BE TOP-AND-BOTTOM GUIDED GUN METAL BRONZE. STAINLESS STEEL INCONEL MAIN VALVE SPRING. DIAPHRAGM COVER TO BE CARBON STEEL. MINIMUM PRESSURE DROP ACROSS VALVE TO BE 1/2 PSI. PRV SHALL BE 3/4", 40 PSI INLET AND 10 PSI OUTLETS. LESLIE AIRMATE LOADERS 1/4" = CLASS AFT-2 SHALL BE LOCATED IN NEW M.E.R. EXISTING PNEUMATIC SYSTEM SHALL BE UTILIZED.

26. AUTOMATIC TEMPERATURE CONTROLS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE SYSTEM OF ELECTRONIC AUTOMATIC TEMPERATURE CONTROLS. THIS CONTRACTOR SHALL PROVIDE ALL MATERIAL, COMPONENTS, DEVICES, THERMOSTATS, SAFETY DEVICES, CONTROLS PANELS, CONTROL DAMPERS, (THE LOW LEAKAGE TYPE), CONTROLLERS, TRANSFORMERS, ACTUATORS, SENSING DEVICES, TIME CLOCKS, RELAYS, CONTROL WIRING DIAGRAMS (LINE AND LOW VOLTAGE), INTERLOCK WIRING, SMOKE DETECTORS, LABOR, ETC., INDICATED, REQUIRED OR SPECIFIED. THE CONTRACTOR SHALL OBTAIN SERVICES OF AN EXPERIENCED FIRM KNOWLEDGEABLE IN AUTOMATIC CONTROL SYSTEMS, TO PROVIDE DETAILED WIRING DIAGRAMS AND SHOP DRAWINGS. THE CONTROLS COMPANY SHALL PROVIDE ALL NECESSARY INFORMATION AND REQUIRED FIELD SUPERVISION FOR A COMPLETE AND OPERABLE AUTOMATIC WIRING OF FIRE SAFETY DEVICES WITH THE FIRE ALARM SYSTEM SHALL BE BY THE ELECTRICAL CONTRACTOR. CONTROL DEVICES, SENSORS, LIFE SAFETY DEVICES AND COMPONENTS SHALL BE FURNISHED BY THIS CONTRACTOR COMPLETE WITH WIRING DIAGRAMS. INSTALLATION AND WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.

B. AUTOMATIC DAMPERS

1. ALL AUTOMATIC DAMPERS SHALL BE INTERLOCKING EDGES, AND EITHER PARALLEL OR OPPOSED BLADE ACTION, INFLATABLE, LIGHT COMPRESSION SEALS. AIR LEAKAGE TO ONE-HALF OF ONE PERCENT OF RATED FLOW FOR ANY DAMPER OVER 12 INCHES WIDE. DAMPERS TO BE HORIZONTAL BLADES. ELECTRIC/ELECTRONIC OPERATORS ARE USED FOR DAMPER OPERATION.

2. FRAME: ROLL FORMED, 13 GAUGE GALVANIZED STEEL.

3. BLADES: 6- OR 8-INCHES OR A COMBINATION OF BOTH. DRIVE BLADES OVER 28 INCHES ON SINGLE SECTION AND OVER 22 INCHES ON MULTI-SECTION. DAMPERS ARE REINFORCED. DRIVE BLADES SHALL HAVE EXTENDABLE AXLES FOR EXTERNAL OPERATIONS

4. BLADE SEALS: TIGHT-CLEARANCE, SPRING STAINLESS STEEL STRIPS. INTERLOCKING EDGES ARE FITTED WITH INFLATABLE, NEOPRENE RUBBER BLADE EDGE SEALS. THE INFLATABLE SEAL BLADE EDGES TO BE FABRIC-REINFORCED, HIGH TEMPERATURE.

5. TEMPERATURE RANGES: -4.0 TO 200°F LOW LEAKAGE FOR ENERGY CONSERVATION.

6. MAXIMUM STATIC PRESSURE DIFFERENTIAL: 6 INCHES WG.

7. MAXIMUM APPROACH VELOCITY: 400 FT/MIN.

8. HARDWARE: LINKAGE BRACKETS AND CONNECTING RODS TO BE 5/16 INCH DIAMETER ZINC PLATED STEEL. ALL TRUNNION RODS ARE BRASS. SET SCREWS AND MOUNTING BOLTS TO BE ZINC PLATED. DAMPERS USED EITHER NYLON OR OILITE BEARINGS.

9. AXLES: ALL AXLES TO BE 1/2 INCH DIAMETER ZINC PLATED STEEL AXLES BOLTED TO THE BLADES. DRIVE BLADES ON ALL DAMPERS TO HAVE EXTRA LONG ADJUSTABLE AXLES THAT CAN BE EXTENDED 4 INCHES BEYOND THE FRAME.

10. DAMPER OPERATOR SIZING: OPERATOR SIZES ARE BASED ON THE OUTSIDE DIMENSION OF THE FRAME PERPENDICULAR TO THE BLADES.

11. OPERATORS SHALL BE ELECTRIC TYPE AS REQUIRED WITH SPRING RETURN SO THAT, IN THE EVENT OF POWER FAILURE, THEY WILL FAIL SAFE IN EITHER THE NORMALLY OPEN OR CLOSED POSITION AS REQUIRED WITH DUE REGARD FOR THE PREVENTION OF ENERGY LOSS, FREEZING, MOISTURE DAMAGE AND SMOKE OR FIRE TRANSMISSION.

C. SMOKE DETECTORS

1. SMOKE DETECTORS THAT ARE DUCT MOUNTED IN HVAC EQUIPMENT SHALL BE FURNISHED BY THIS CONTRACTOR. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WIRING OF THE OUTLET CONTACTS OF THE SMOKE DETECTOR OR FAN SHUTDOWN SHALL BE INTERFACED UNDER THIS SECTION. INSTALLATION AND WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.

2. SMOKE DETECTORS SHALL BE LOCATED IN THE SUPPLY AIR DOWNSTREAM OF AIR FILTERS AND WHERE INDICATED.

3. SMOKE DETECTORS TO BE SIMPLEX, HONEYWELL OR EQUAL, 120 VOLT U.L. LISTED AND BE COMPATIBLE WITH FIRE ALARM SYSTEM.

D. HEAT DETECTORS

1. HEAT DETECTORS TO BE ELECTRIC HIGH TEMPERATURE THERMOSTATS BI-METAL TYPE ELEMENTS WITH AT LEAST A 10 INCH INSERTION LENGTH.

2. DETECTORS TO BE LOCATED AS INDICATED ON PLANS OR WHEREIN SPECIFIED.

3. DETECTORS SHALL BE MANUALLY RESET SUITABLE FOR REMOTE RESET.

4. DETECTORS SHALL HAVE A RANGE UP TO 200°F SET AT 140°F AND BE ADJUSTABLE.

5. FURNISH ALL NECESSARY CONTACTORS AND RELAYS FOR EQUIPMENT SHUTDOWN AND FIRE ALARM SYSTEM INTERFACE.

E. TIME CLOCKS SHALL BE ELECTRIC SEVEN DAY, 24 HOUR DAY/NIGHT WITH MANUAL OVERRIDE AND LOCKING COVERS.

F. THIS CONTRACTOR SHALL FURNISH CONTROLS AND NECESSARY COMPONENTS TO ACCOMPLISH AND COMPLETE SEQUENCE OF OPERATIONS.

27. FAN COIL UNITS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

1. FAN COIL UNIT.
2. HOT WATER HEATING COIL.
3. VALVES AND CONTROLS.

B. RELATED SUSTAINABLE DESIGN SECTIONS:

1. 01 7419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
2. 01 8113 - SUSTAINABLE DESIGN REQUIREMENTS
3. 01 8113.10 - LEED REPORTING FORM
4. 01 8119 - INDOOR AIR QUALITY REQUIREMENTS
5. 01 8123 - VOLATILE ORGANIC COMPOUND LIMITS

1.3 LEED FOCUS MATERIALS

A. LEED FOCUS MATERIALS (LFMS) FOR THIS SECTION:

1. TARGETED PRODUCTS CONTAINING VOLATILE ORGANIC COMPOUNDS (TARGETED VOC PRODUCTS)

1.4 SUBMITTALS

A. PROVIDE DIMENSIONED, DETAILED INSTALLATION DRAWINGS SHOWING PIPING DETAILS; MANUFACTURER'S LATEST PUBLISHED DATA INCLUDING CERTIFIED SOUND POWER RATINGS WITH OCTAVE BANK ANALYSIS, CERTIFIED FAN PERFORMANCE CURVE AND COIL DATA AND PERFORMANCE DATA.

1.5 LEED SUBMITTAL REQUIREMENTS

A. A COMPLETED LEED REPORTING FORM (LRF) WITH A SEPARATE LINE ITEM COMPLETED FOR EACH LEED FOCUS MATERIALS (LFM).

B. PRODUCT CUT SHEETS FOR EACH LFM CONFIRMING THAT THE SUBMITTED PRODUCTS ARE THE PRODUCTS INSTALLED AS PART OF THE WORK.

C. VALIDATION: PROVIDE VALIDATION FOR THE LFMS ACCORDING TO THE ACTION SUBMITTALS REQUIREMENTS OF SECTION 01 8113 ⅜SUSTAINABLE DESIGN REQUIREMENTS¾.

1. VOC CONTENT
2. RECYCLED CONTENT
3. REGIONAL MATERIALS.

1.6 QUALITY ASSURANCE

A. FACTORY TEST COILS AT 1.5 TIMES MAXIMUM OPERATING PRESSURE, BUT NO LESS THAN 300 PSIG COMPRESSED AIR.

B. UNITS AND APPLICATION RATING DATA TO BEAR THE ARI SEAL, CERTIFYING CONFORMANCE WITH INDUSTRY STANDARD 441. UNITS TO BE U.L. APPROVED.

C. LEED QUALITY ASSURANCE

1. VOC CONTENT LIMITATIONS DEFINED IN SECTION 01 8123 "VOLATILE ORGANIC COMPOUND LIMITS".
2. REGIONAL MATERIALS.
3. RECYCLED MATERIALS.

PART 2 - PRODUCTS

2.1 GENERAL

A. PROVIDE FAN COIL UNITS OF THE TYPE, SIZE AND CAPACITY SHOWN ON THE PLANS.

B. THE UNIT TO BE COMPLETE WITH CABINET, HIGH EFFICIENCY FAN MOTOR, CHILLED WATER AND HOT WATER ELECTRIC STEAM COILS, MAIN AND AUXILIARY DRAIN PANS, FILTERS, CONTROL TRANSFORMER, MOTOR SPEED CONTROLLER, VALVING PACKAGE, LEVELING LEGS HANGING BRACKETS, DRAIN COCK AND DISCONNECT SWITCH.

C. CONSTRUCT THE UNITS OF 18 GAUGE ZINC COATED SHEET STEEL. FABRICATE THE REMOVABLE FAN BOARD AND DRAIN PAN ASSEMBLY FORMED FROM A SINGLE PIECE OF METAL WITHOUT JOINTS. INSULATE EXTERIOR SURFACES OF DRAIN PANS WITH FIRE RETARDANT CLOSED CELL FOAM INSULATION. LINE THE ENCLOSURE WITH 1/2" GLASS FIBER INSULATION, SECURELY FASTENED WITH A WEATHERPROOF ADHESIVE. PAINT ENCLOSURE IN COLOR SELECTED BY ARCHITECT.

D. PROVIDE UNITS WITH 1-INCH THROWAWAY FILTERS. PROVIDE ONE (1) SPARE SET OF FILTERS FOR EACH UNIT.

E. SOUND PRESSURE LEVEL AT RATED AIR FLOW NOT TO EXCEED NC-35 (±2).

2.2 FAN AND DRIVE

PROJECT:

HM 78 A-B

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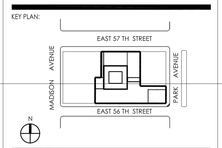

DRAWING TITLE:

MECHANICAL SPECIFICATION SHEET 2

SEAL & SIGNATURE:

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