REGISTER, DIFFUSER & GRILLE SCHEDULE

0.03

0.03

<20

20

<20

DIRECTIONAL

LOUVERED

LOUVERED

(DIA)

2. PROVIDE TYPE TB/TBP MOUNTING PANEL FOR LAY-IN CEILING APPLICATION

4. 4-WAY PATTERN TYPICAL. PROVIDE 1, 2, 3-WAY PATTERN WHERE INDICATED. ON PLANS BY DIRECTIONAL ARROWS. PERFORMANCE BASED ON 4-WAY PATTERN.

3. PROVIDE TYPE F MOUNTING PANEL FOR SURFACE MOUNTING

5. PROVIDE WITH MODEL OBDE OPD MOUNTED IN NECK

6. ALL ALUMINUM CONSTRUCTION.

NOTES: 1, PROVIDE TYPE 3P MOUNTING PANEL FOR LAY-IN CEILING

TYPICAL MFG &

MODEL NO. METALAIRE - 2015D 48x4 PRICE ASCD 12x12

PRICE 610Z 24x20

PRICE 635 12x12

RUCTION FOR 12-

MAINE I

GRAPHIC SCALE: NOT TO SCALE

PROJECT MANAGER: JC/DRAWN BY: A/E OF RECORD:

SCHEDULES, SPECIFICATIONS AND

M- 601

4. PREPARE WORKING PLANS FOR APPROVAL BY THE STATE OWNER'S INSURANCE CARRIER.

SPECIFICATIONS AND NOTES

MEDICAL CENTER.

REQUIREMENTS.

RELATED WORK.

FIRE PROTECTION

INSTALLATIONS.

1. VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS

2. RENOVATION WORK WILL TAKE PLACE IN AN OCCUPIED

INDICATED; ALL OFFSETS, OBSTRUCTIONS, AND EXISTING

HOSPITAL, INSTALLATIONS SHALL NOT AFFECT ONGOING

UTILITIES WILL NEED TO BE COORDINATED WITH MAINE

3. OBTAIN NECESSARY PERMITS AND PAY ASSOCIATED FEES.

4. COORDINATE ANY SERVICE DISRUPTIONS WITH THE OWNER.

MANUFACTURER RECOMMENDATIONS, ALL LOCAL CODES

EXISTING CONDITIONS. COORDINATE INSTALLATIONS WITH

5. INSTALL ALL COMPONENTS IN ACCORDANCE WITH

AND STANDARDS, AND MAINE MEDICAL CENTER

6. DRAWINGS ARE DIAGRAMMATIC ONLY; FIELD-VERIFY ALL

OTHER TRADES. COORDINATE ELECTRICAL POWER

7. THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO

READY FOR OPERATION. ANY COMPONENTS OR LABOR

NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT

REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE

PROVIDED. SHOULD THERE APPEAR TO BE ANY

DISCREPANCIES OR QUESTIONS OF INTENT, THE

CONTRACTOR SHALL REFER THE MATTER TO THE

ARCHITECT FOR DECISION BEFORE START OF ANY

8. PERFORM WORK IN ACCORDANCE WITH LOCAL CODES.

SEAL ALL DUCT AND PIPE PENETRATIONS THROUGH

10. OBSERVE THE OWNER'S CLEANLINESS PROTOCOLS.

FIRE RATED WALLS AND FLOORS WITH FIRE SEALANT.

1. ALL WORK MUST BE CAREFULLY COORDINATED WITH THE

2. REVISE THE EXISTING WET SPRINKLER SYSTEM TO

FURNISH, INSTALL, AND TEST THE REQUIRED

3. SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:

1 SPECIFICATIONS AND NOTES NOT TO SCALE

LIGHT HAZARD.

SPRINKLER SYSTEM. SPRINKLER TYPES SHALL BE

QUICK RESPONSE TYPES, STYLE TO MATCH EXISTING.

ALL WORK SHALL BE IN ACCORDANCE WITH NFPA-13.

A. CARDIAC CATH LAB AND CONTROL ROOM:

B. CARDIAC CATH LAB EQUIPMENT ROOM:

ORDINARY HAZARD, GROUP 1.

NEW AND RENOVATED HVAC AND MEDICAL EQUIPMENT

ACCOMMODATE NEW EQUIPMENT INSTALLATIONS. DESIGN,

CALL FOR FINISHED WORK, FULLY TESTED AND

REQUIREMENTS FOR ALL MOTORS.

OPERATIONS. HOURS AVAILABLE TO PERFORM WORK

AND DISRUPTION TO OPERATION OF SYSTEMS AND

CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED.

IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS

5. COORDINATE ANY SYSTEM IMPAIRMENTS WITH MAINE MEDICAL CENTER. BEFORE SHUTTING OFF A SECTION OF THE SPRINKLER SYSTEM TO MAKE SPRINKLER TIE-INS, NOTIFY THE LOCAL FIRE DEPARTMENT, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST TIME POSSIBLE. WORK STARTED ON CONNECTIONS SHOULD BE COMPLETED WITHOUT INTERRUPTION AND PROTECTION RESTORED AS PROMPTLY AS POSSIBLE. DURING THE IMPAIRMENT, PROVIDE EMERGENCY HOSE EXTINGUISHERS AND MAINTAIN EXTRA WATCH SERVICE IN THE AFFECTED

6. PROVIDE RECORD DRAWINGS AND CALCULATIONS TO THE OWNER UPON COMPLETION OF THE WORK.

MECHANICAL VIBRATION AND SEISMIC CONTROLS 1. MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE.

2. MECHANICAL SYSTEMS SHALL BE SEISMICALLY BRACED TO ALLOW THEM TO REMAIN IN PLACE WITHOUT SEPARATION OF ANY PART WHEN SUBJECTED TO THE SEISMIC FORCES SPECIFIED AND THE SYSTEMS WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT. MECHANICAL SYSTEMS WILL INCLUDE ALL NEW EQUIPMENT, DUCTWORK AND PIPING.

REQUIREMENTS:

A. APPLICABLE CODE: INTERNATIONAL BUILDING CODE 2003. B. GENERAL: PERFORMANCE REQUIREMENTS TO BE USED IN THE DESIGN OF SEISMIC CONTROLS SHALL USE DESIGN FORCES CALCULATED AS

FOLLOWS: I. SEISMIC USE GROUP: GROUP III. II. SEISMIC DESIGN CATEGORY: D. III. COMPONENT IMPORTANCE FACTOR (IP): 1.5. IV. SDS: 0.371

PIPING INSULATION

1. FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 25 FLAME SPREAD, 50 SMOKE DEVELOPED. DOMESTIC COLD WATER: 1" THICKNESS. DOMESTIC HOT WATER: PIPE SIZES 1" AND SMALLER RUNOUTS UP TO 12' IN LENGTH: 1 INCH THICKNESS. ALL OTHER DHW PIPING SIZES: 1" THICKNESS.

2. FLEXIBLE ELASTOMERIC THERMAL INSULATION, EQUAL TO NOMACO K-FLEX LS, 25 FLAME SPREAD, 50 SMOKE DEVELOPED. COOLING COIL CONDENSATE AND CHILLED WATER: 2" THICKNESS OUTSIDE OF BUILDING AND 1" THICKNESS INSIDE OF BUILDING, APPLY CONTINIOUS PVC JACKETING ON OUTDOOR INSTALLATIONS.

1. ALL PIPING SHALL BE PRESSURE TESTED, SUPPORT ALL PIPING IN ACCORDANCE WITH MSS STANDARD PRACTICE SP-69. PROVIDE ADJUSTABLE CLEVIS HANGERS, WITH INSULATION SHIELDS AS REQUIRED.

2. FORCED DWV AND INDIRECT WASTE: COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS; SOLDERED JOINTS. 3. CHILLED WATER 2" AND LESS: TYPE L COPPER. CHILLED WATER 2-1/2" AND LARGER: TYPE L COPPER OR SCHEDULE 40 STEEL.

HOT WATER:

A. BALL VALVES, NPS 2 AND SMALLER: TWO-PIECE, 600-PSIG CWP RATING, COPPER

B. BALANCE VALVES, NPS 2 AND SMALLER: BRONZE BODY, BALL TYPE, 125-PSIG RATING, CONNECTIONS FOR PORTABLE DIFFERENTIAL PRESSURE METER, MEMORY STOP.

**VAV WATER HEATING COILS** 1. TUBES: 5/8 INCH OD SEAMLESS COPPER ARRANGED IN

PARALLEL OR STAGGERED PATTERN, EXPANDED INTO FINS, BRAZED JOINTS. 2. FINS: ALUMINUM OR COPPER CONTINUOUS PLATE TYPE

WITH FULL FIN COLLARS. 3. CASING: DIE FORMED CHANNEL FRAME OF 16 GAGE GALVANIZED STEEL WITH 16 GAGE MOUNTING HOLES ON 3 INCH CENTERS.

4. HEADERS: SEAMLESS COPPER TUBE WITH SILVER BRAZED 5. INSTALL IN DUCTS AND CASINGS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL

AND FLEXIBLE. PROVIDE ACCESS DOORS FOR CLEANING.

METAL DUCTWORK 1. GALVANIZED STEEL DUCTWORK: ASTM A653 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, AND G90 ZINC COATING, ALL DUCTWORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. CONSTRUCT DUCT SYSTEMS SO THAT LEAKAGE DOES NOT

2. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS.

3. INSULATE SUPPLY DUCTWORK WITH 1-1/2" FIBERGLASS BLANKET WITH VAPOR BARRIER JACKET EQUAL TO SCHULLER MICROLITE TYPE 75, ASTM C533, WITH FSK

4. SEAL NEW AND EXISTING DUCTWORK (WHERE POSSIBLE) TO SMACNA SEAL CLASS A STANDARDS.

5. DUCTWORK OUTSIDE SHALL RECIEVE 2 LAYERS OF 2" POLYISOCYANURATE W/ FLEX CLAD OR ENGINEER APPROVED EQUAL FOR WEATHERTIGHT SEAL.

INSULATED FLEXIBLE DUCTS

1. ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX ADHESIVE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE, FIBERGLASS INSULATION, POLYETHYLENE VAPOR BARRIER FILM. R-VALUE = 4.2, UL 181, CLASS 1.

IDENTIFICATION

1. PIPE-MARKING LABELS: FURNISH AND INSTALL IN ACCORDANCE WITH ANSI/OSHA REQUIREMENTS. IDENTIFY VALVES WITH TAGS. IDENTIFY ALL EQUIPMENT SUCH AS AIR CONDITIONING UNITS, CONDENSING UNITS, AND HUMIDIFIER WITH STENCIL PAINTING OR TAGS.

**AUTOMATIC TEMPERATURE CONTROLS** RECONNECT TO RELOCATED REHEAT COIL (VAV).

TESTING, ADJUSTING, AND BALANCING (T-A-B) TEST, ADJUST, AND BALANCE EQUIPMENT AND DISTRIBUTION SYSTEMS IN ACCORDANCE WITH NEBB OR AABC PROCEDURAL STANDARDS. TESTS SHALL BE PERFORMED BY AND INDEPENDENT T-A-B AGENCY. 2. T-A-B NEW AHU, NEW BLOWER COILS, AND ASSOCIATED

3. T-A-B NEW CHILLED WATER SYSTEM AND REHEAT COILS. 4. T-A-B ALL NEW AND REVISED AIR INLETS AND

OUTLETS, INCLUDING DESIGN AND ACTUAL CFM. TEST AND ADJUST ADJACENT AFFECTED AREAS IF REQUIRED. 5. CATH LAB #2 SHALL BE CONFIGURED FOR 15 AC/HR (AS INDICATED) W/ 3 ACH/HR OF OUTSIDE AIR. PRECENTAGE OF OUTSIDE AIR AT THE AIR HANDLER

SHALL BE CALIBRATED FOR DUCT LEAKAGE

EXCEED ONE PERCENT OF THE TOTAL AIR QUANTITIES.

SEAL ALL DUCT JOINTS.