

GENERAL NOTES

EXISTING EQUIPMENT TO REMAIN


EXISTING EQUIPMENT TO BE DEMOLISHED


NEW EQUIPMENT

PIPING SYMBOLS



















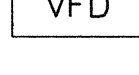

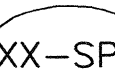

—CHWS—	CHILLED WATER SUPPLY
---CHWR---	CHILLED WATER RETURN
-----D-----	CONDENSATE DRAIN LINE
---HWS---	HOT WATER HEATING SUPPLY
---HWR---	HOT WATER HEATING RETURN
---LPS---	LOW PRESSURE STEAM (15 PSIG AND BELOW)
---LPR---	LOW PRESSURE STEAM CONDENSATE RETURN
---MPS---	MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG)
---MPR---	MEDIUM PRESSURE STEAM CONDENSATE RETURN
---CW---	COLD WATER (CITY WATER)
---MW---	MAKE-UP WATER
---V---	VENT

DRAWING SYMBOLS


 SECTION LETTER
 DRAWING NUMBER WHERE SHOWN

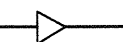















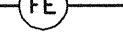







 BUILDING NO. WHERE EQUIPMENT IS LOCATED.
 EQUIPMENT ABBREVIATION (SUPPLY FAN)
 AIR HANDLING UNIT NO. 101 IN BUILDING NO. 7
 TYPICAL UNIT NO.

CONTROLS SYMBOLS

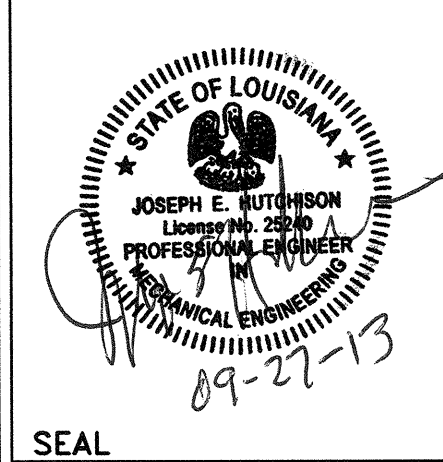
	TEMPERATURE TRANSMITTER
	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
	HUMIDITY TRANSMITTER
	HUMIDITY HIGH LIMIT
	PRESSURE TRANSMITTER
	STATIC PRESSURE SENSOR
	FLOW TRANSMITTER
	CURRENT TRANSMITTER
	SMOKE DETECTOR
	PRESSURE DIFFERENTIAL SWITCH
	HAND SWITCH (HAND-OFF-AUTO SWITCH)
	VALVE OR DAMPER POSITION CONTROLLER
	TEMPERATURE SWITCH, LOW (FREEZE/STAT)
	PRESSURE SWITCH HIGH
	PRESSURE SWITCH LOW
 CO ₂	CARBON DIOXIDE TRANSMITTER
	VARIABLE FREQUENCY DRIVE
	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
	FAN SPEED FROM VFD
	FAN ALARM FROM VFD
 XX-SST	START/STOP SWITCH
	LIGHT SWITCH (ON AIR HANDLING UNIT)

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED OR LAY-IN CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
4. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
5. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
6. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTERFLOW BETWEEN WATER AND AIR.
7. WALL TYPE EXHAUST REGISTERS NOTED AS "BR" ON DRAWINGS ARE TO BE INSTALLED WITH BOTTOM ELEVATION OF REGISTER AT 7' ABOVE FINISHED FLOOR.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. SEISMIC PROVISIONS REQUIRED - SEE SPECIFICATIONS.
10. ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED.
11. PROVIDE CURVED RADIUS ELBOW AT FIRST SUPPLY AND RETURN FITTING FOR ALL HVAC UNITS.
12. PROVIDE TURNING VANES IN ALL 90 DEGREE RECTANGULAR ELBOWS FOR SUPPLY/RETURN/EXHAUST DUCT SYSTEMS.
13. ANY OFFSETS REQUIRED IN DUCT SYSTEMS SHALL BE INSTALLED PER SMACNA STANDARDS.
14. SHARP ANGLED TRANSITIONS OR OFFSETS WILL NOT BE ALLOWED UNLESS APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.
15. INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE CONTRACTING OFFICER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION MAY BE SELECTED.
16. ALL DUCT TAKE-OFFS SHALL BE INSTALLED AS SHOWN BY DETAILS ON THE DRAWINGS WITH A MANUAL BALANCE DAMPER AT EVERY TAKE-OFF. WHERE DUCT RUN-OUT SIZE IS NOT SHOWN PROVIDE DUCT SAME SIZE AS GRILLE NECK SIZE.
17. ALL ROTATING MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION. PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS BETWEEN DUCTWORK AND ISOLATED MECHANICAL EQUIPMENT.
18. EXISTING DUCTWORK THAT PENETRATES FIRE OR SMOKE RATED WALL, FLOOR OR ROOF ASSEMBLIES IS NOT BEING UPGRADED FOR RATING OF EXISTING ASSEMBLIES. NEW DUCTWORK THAT PENETRATES RATED ASSEMBLIES (NEW OR EXISTING) SHALL BE PROVIDED WITH THE APPROPRIATE DAMPER FOR THAT RATING.
19. MECHANICAL CONTRACTOR SHALL CONFIRM FINAL DIMENSIONS OF UNIT ARE COORDINATED WITH EXISTING SYSTEMS AND CONCRETE PADS.
20. ANY EXISTING SYSTEMS THAT REQUIRE MODIFICATION FOR UNIT INSTALLATION SHALL BE COORDINATED WITH THE CONTRACTING OFFICER'S REPRESENTATIVE

GENERAL PIPING SYMBOLS

	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	MANUAL AIR VENT
	QUICK-COUPLE HOSE CONNECTOR
	FLOOR DRAIN

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Recommended Approvals:	
1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COR

Drawing Title	MECHANICAL LEGEND AND NOTES
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FINAL BID DOCUMENTS

Project Title
DESIGN BUILDING 7 AIR HANDLER
UPGRADE - PROJECT A:
7-AHU107 & 7-AHU108

Drawn	
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Building Number

AutoCAD File Nam

Date

Project Number
502-12-201

DRAWING No.
M001

